

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

Your reference:

Our reference: HKWSD202/50/107173 Date: 11 March 2021

Attention: Mr W K Lau

BY EMAIL & POST (email: simon wk lau@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.12 (February 2021)

We refer to emails of 9 and 10 March 2021 attaching Monthly EM&A Report No.12 (February 2021) for the captioned project prepared by the ET.

We have no further comments and hereby verify the Monthly EM&A Report No.12 (February 2021) 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 Independent Environmental Checker

KSYL/CYYR/lsmt







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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.12 (Period from 1 February to 28 February 2021)

		Docum	ent No.			
ASCL	/	200168078	/	MEMAR12	/	А
Publisher		Project Code		Sequential No.		Revision
						Index

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REVISION HISTORY

Rev.	Description of Modification	DATE
А	First Issue for Comments	14 March 2021



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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 Project.
- A2. In accordance with the Updated Environmental Monitoring and Audit (EM&A) Manual for the Project, 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 Project.
- A3. This is the 12th Monthly EM&A Report, prepared by ASCL, for the Project 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 February 2021 to 28 February 2021.
- 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 Project included the followings:
 - Land Survey;
 - 132kV substation internal finishing and E&M installation;
 - Construction of ActifDAFF perimeter wall and water tank;
 - Construction of RO/electrical building ground floor slab;
 - Construction for Product Water Storage Tank perimeter wall and footing of electrical building;
 - Excavation and ELS installation for combine shaft;
 - Administration building pile load test and footing construction;
 - Construction of Main electrical and chiller plant building footing;
 - Construction of post treatment building footing;

A6. The major environmental impacts brought by the above construction works include:

- Construction dust and noise generation from construction works, excavation and ELS installation works
- Waste generation from the construction activities



- A7. The key environmental mitigation measures implemented for the Project 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
 - Sorting and storage of general refuse and construction waste

SUMMARY OF EXCEEDANCE & INVESTIGATION & FOLLOW-UP

- A8. No noise monitoring was conducted during the reporting period since there are no projectrelated construction activities undertaken within a radius of 300m from the monitoring locations. No project-related exceedance of the Action Level was recorded during the reporting period.
- A9. No water quality monitoring was conducted in the reporting month since the commencement of marine construction and dredging activities for the Project are scheduled in March 2021 the earliest. No project-related exceedance of the Action Level was recorded during the reporting period.
- A10.Weekly site inspections of the construction work by ET were carried out on 2, 9, 18 and 24 February 2021 to audit the mitigation measures implementation status. Bi-weekly joint site inspection was carried out on 09 & 24 February 2021 by ET and IEC. Observations 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

- A11.No project-related environmental complaint was received during the reporting period.
- A12.Neither notifications of summons nor prosecution was received for the Project.

REPORTING CHANGE

A13. 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

- A14.Key activities anticipated in the next reporting period for the Project will include the following:
 - Land Survey;
 - Combine shaft foundation construction;
 - 132kV substation internal finishing and E&M installation;
 - Construction of ActifDAFF perimeter wall and water tank;
 - Construction of RO/electrical building ground floor slab;
 - Construction for Product Water Storage Tank perimeter wall and footing of electrical building;
 - Construction of post treatment building footing;
 - Administration building pile load test and footing construction;
 - Construction of Main electrical and chiller plant building footing
 - Marine Dredging at Outfall Shaft
 - Pipe piles driven and ELS construction work at intake Shaft
 - Cable drawpit construction
 - Excavation and laying yard piping

A15.The major environmental impacts brought by the above construction works will include:

- Construction dust and noise generation from excavation, foundation and ELS installation works and construction works
- Waste generation from construction activities

A16. 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
- Reduction of noise from equipment and machinery on-site
- Sorting and storage of general refuse and construction waste



1. BASIC PROJECT INFORMATION

1.1. BACKGROUND

The Jardine Engineering Corporation, Limited, China State Construction Engineering (Hong Kong) Limited and Acciona Agua, S.A. Trading 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 Project).

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 Project; 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.

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 Project.

1.2. The Reporting Scope

This is the 12th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 February to 28 February 2021.

1.3. PROJECT ORGANIZATION

The Project Organization structure for Construction Phase is presented in Figure 1.1.

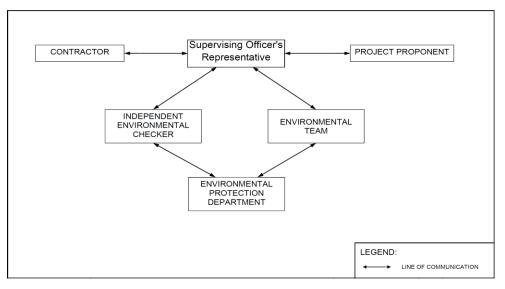


Figure 1.1Project Organization Chart



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

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

Table 1.1Contact Details of Key Personnel

1.4. SUMMARY OF CONSTRUCTION WORKS

Details of the major construction activities undertaken in this reporting period are shown in below. The construction programme is presented in **Appendix A**.



Key activities carried out in this reporting period for the Project included the following:

- Land Survey;
- 132kV substation internal finishing and E&M installation;
- Construction of ActifDAFF perimeter wall and water tank;
- Construction of RO/electrical building ground floor slab;
- Construction for Product Water Storage Tank perimeter wall and footing of electrical building;
- Excavation and ELS installation for combine shaft;
- Administration building pile load test and footing construction;
- Construction of Main electrical and chiller plant building footing;
- Construction of post treatment building footing;

1.5. SUMMARY OF ENVIRONMENTAL STATUS

A summary of the valid permits, licences, and /or notifications on environmental protection for this Project is presented in **Table 1.2**.

Permit/ Licenses/ Notification	Reference	Validity Period	Remarks
Environmental Permit	FEP – 01/503/2015/A	Throughout the Contract	
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation (Form NA)	Ref. No.: 451539	30/12/2019 – 30/03/2023	
Wastewater Discharge Licence	WT00035775-2020	24/07/2020 - 31/07/2025	
Chemical Waste Producer Registration	5213-839-A2987-01	Throughout the Contract	
Construction Noise Permit (24 hours)	GW-RE0784-20	01/10/2020 - 31/03/2021	
Billing Account for Disposal of Construction Waste	7036276	Throughout the Contract	

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

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



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

Parameters	Status
Water Quality	
Baseline Monitoring under EM&A	The baseline water quality monitoring was conducted
Manual	between 12 May 2020 to 6 Jun 2020
Impact Monitoring	The impact water quality monitoring has been scheduled
	after the commencement of marine construction works
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 Monitoring	On-going
Plan	
Environmental Audit	
Site Inspection covering Measures of Air	On-going
Quality, Noise Impact, Water Quality,	
Waste, Ecological Quality, Fisheries,	
Landscape and Visual	

The impact monitoring schedule for the reporting month to be shown at **Appendix D** is intentionally left blank since no impact monitoring was conducted in the reporting month.

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.

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 Project during the reporting period is provided in **Appendix C**.



2. Noise

2.1. MONITORING REQUIREMENTS

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.

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 Leq, L10 and L90 levels recorded at each monitoring station between 0700 and 1900 on normal weekdays.

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 project-related construction activities undertaken within a radius of 300m from the monitoring stations.

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 closet monitoring station NSR4 to the works location.

Impact noise monitoring will be conducted weekly in the reporting period between 0700-1900 on normal weekdays. No construction works were carried out during 1900-0700 in all days or any time on Sundays or general holidays during the reporting period.

Construction noise level 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.

Time	Duration	Interval	Parameters
Daytime: 0700-1900	Day time: 0700-1900 (during normal weekdays)	$\begin{array}{l} Continuously in \\ L_{eq \; 5min}/L_{eq \; 30min} \left(average \\ of \; 6 \; consecutive \; L_{eq \; 5min} \right) \end{array}$	L _{eq 30min} L10 30min & L90 30min

 Table 2.1 Noise Monitoring Parameters, Time, Frequency and Duration

2.2. MONITORING LOCATIONS

The monitoring locations should normally be 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.

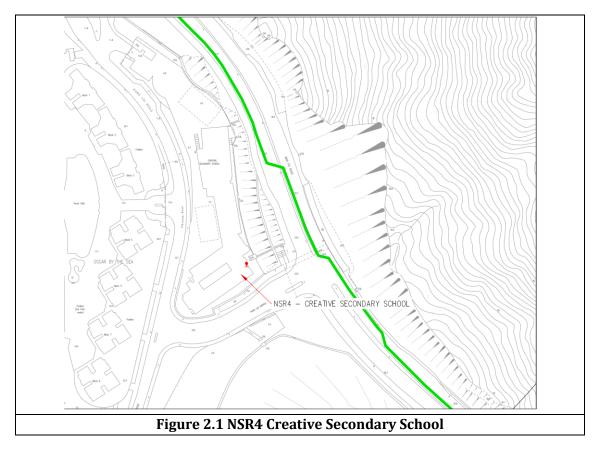
According to the environmental findings detailed in the EIA report and Baseline Monitoring Report, the designated locations for the construction noise monitoring are listed in **Table 2.2** below.



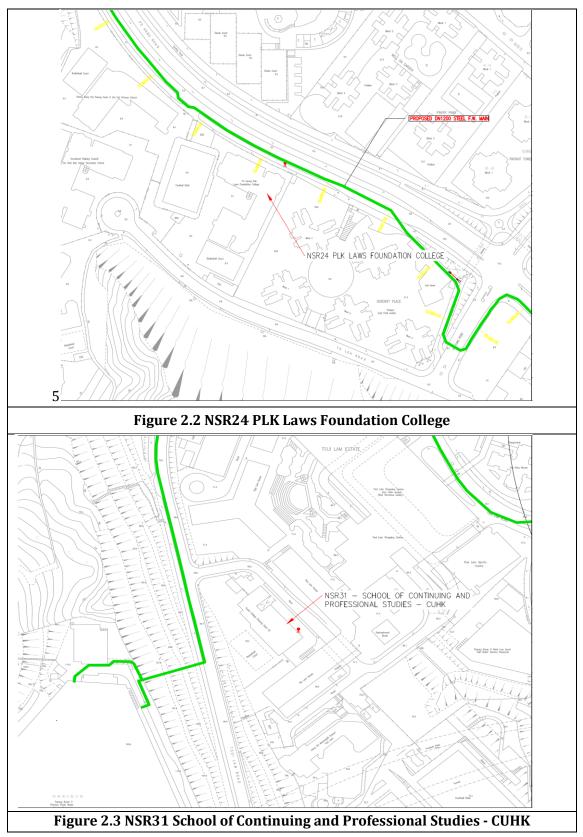
NSR ID	Noise Sensitive Receivers	Monitoring Location	Position
NSR 4	Creative Secondary School	Roof Floor	1 m from facade
NSR 24	PLK Laws Foundation College	Pedestrian Road on Ground Floor	Free-field
NSR 31	School of Continuing and Professional Studies - CUHK	Roof Floor	1 m from facade

Table	2.2	Noise	Sensitive	Receivers
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The monitoring locations should normally be 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. Three noise monitoring locations for impact monitoring at the nearby sensitive receivers are shown in **Figure 2.1-2.3**.









2.3. IMPACT MONITORING METHODOLOGY

Integrated sound level meter shall be used for the noise monitoring. The meter shall be 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 shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be 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.

Noise measurements shall not be 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.

Equipment	Brand and Model	Detection Limit
Sound Level Meter	Nti XL2	30-130 dB(A)
Sound Level Meter Calibrator	Rion NC-74	Nil
Pocket Wind Meter Anemometer	Kestrel 1000 Wind Meter	Nil

Table 2.3 Impact Noise Monitoring Equipment

2.4. ACTION AND LIMIT LEVELS

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 2.4**.

Table 2.4	Action and Limit Levels for Noise per Updated EM&A Manual
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Time Period		Action Limit (dB(A))
0700-1900 on n weekdays	ormal	When one documented complaint is received from any one of the noise sensitive receivers• 70 dB(A) for school and

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

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**.



2.5. MONITORING RESULTS AND OBSERVATIONS

Referring to EM&A manual Section 4.1.2, the impact noise monitoring should be carried out when there are project-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 Project site as shown in **Figure 2.4**, no impact monitoring for noise impact was conducted in the reporting period.

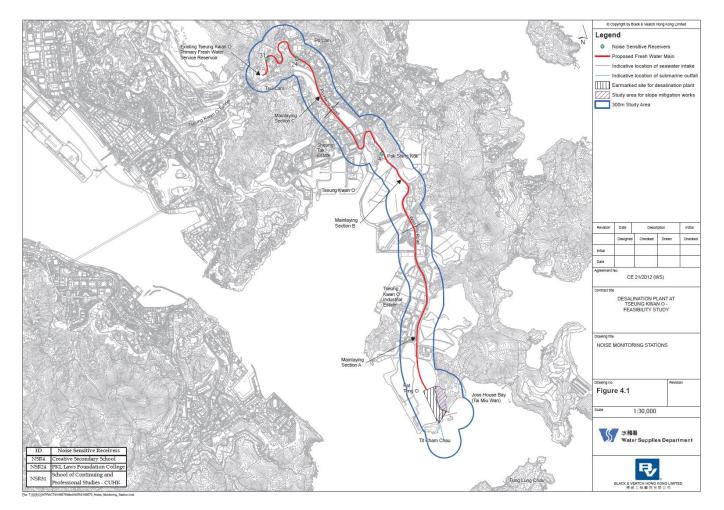


Figure 2.4 Site Layout Plan with Noise Sensitive Receivers and Desalination Plant

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3. WATER QUALITY

In accordance with the recommendations of the EIA, water quality EM&A 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.

Water quality monitoring for the Project 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.

In addition, the marine works contractor is required to complete a silt curtain efficiency test for the combined use of floating silt curtain type and cage type silt curtain for dredging at seawater intake to confirm the silt curtain reduction efficiency assumptions of the assessment. The details of testing plan together with the silt curtain deployment plan shall be submitted by the ET to seek approval from the IEC and EPD.

3.1. IMPACT MONITORING METHODOLOGY

3.1.1. WATER QUALITY PARAMETERS

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 baseline monitoring are listed in **Table 3.1**.



Table 3.1 Parameters measured in the baseline marine water quality monitoring

Parameters	Unit	Abbreviation							
In-situ measurements									
Dissolved oxygen	mg/L	DO							
Temperature	٥C	-							
рН	-	-							
Turbidity	NTU	-							
Salinity	⁰ / ₀₀	-							
Total Residual Chlorine NOTE1	mg/L	TRC							
Laboratory measurements									
Suspended Solids	mg/L	SS							
Iron-Soluble NOTE2	mg/L	Fe							
Anti-scalant as Reactive Phosphorus ^{NOTE2}	mg/L	PO ₄ as P-							

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

NOTE 2: The testing methods shall be submitted to EPD for approval prior to the commencement of monitoring programme

In addition to the water quality parameters, other relevant data will also be 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.

3.1.2. MONITORING EQUIPMENT

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

Dissolved Oxygen and Temperature Measuring Equipment - The instrument will be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and will be operable from a DC power source. It will be 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 shall have 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

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cables shall be 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 will be a portable, weatherproof turbiditymeasuring unit complete with cable, sensor and comprehensive operation manuals. The equipment will be operated from a DC power source, it will have a photoelectric sensor capable of measuring turbidity between 0 - 1000 NTU and will be 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 will be 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) will be 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 should be suitably calibrated. The ET shall seek approval for their proposed equipment with the client prior to deployment.

Current Velocity and Direction – No specific equipment is recommended for measuring the current velocity and direction. The environmental contractor shall seek approval of their proposed equipment with the client prior to deployment.

Positioning Device – A Global Positioning System (GPS) shall be used during monitoring to allow accurate recording of the position of the monitoring vessel before taking measurements. The Differential GPS, or equivalent instrument, should be 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, will be used (e.g. Kahlsico Water Sampler 13SWB203 or an approved similar instrument). The water sampler will have 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.

3.1.3. SAMPLING / TESTING PROTOCOLS

All in situ monitoring instruments will be 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 will be checked with certified standard solutions before each use.



On-site calibration of field equipment shall follow the "Guide to On-Site Test Methods for the Analysis of Waters", BS 1427: 2009. Sufficient stocks of spare parts shall be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when equipment is under maintenance, calibration etc.

3.1.4. LABORATORY MEASUREMENT AND ANALYSIS

All laboratory work shall be carried out in a HOKLAS accredited laboratory. Sufficient volume of each water sample shall be collected at the monitoring stations for carrying out the laboratory analyses. Using chain of custody forms, collected water samples will be transferred to an HOKLAS accredited laboratory for immediate processing. The determination work shall start within the next working day after collection of the water samples. The laboratory measurements shall be provided to the client within 5 working days of the sampling event. Analytical methodology and sample preservation of other parameters will be 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 should include 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 shall be in accordance with requirements of HOKLAS or another internationally accredited scheme.

Parameters for laboratory measurements, their standard methods and their detection limits are presented in **Table 3.2**.

Parameters	Standard Methods	Detection Limit	Reporting Limit	Precision
Dissolved oxygen (mg/L)	Instrumental, CTD	0.1	-	±25%
Temperature (°C)	Instrumental, CTD	0.1	-	±25%
рН	Instrumental, CTD	0.1	-	±25%
Turbidity (NTU)	Instrumental, CTD	0.1	-	±25%
Salinity (º/ ₀₀)	Instrumental, CTD	0.1	-	±25%
Suspended Solids (mg/L)	APHA 17 th Ed 2540D	1.0	2.0	±17%
Total Residual Chlorine (mg/L)	APHA 21st Ed 4500 – Cl G NOTE1	0.1NOTE1	0.2NOTE1	±10% NOTE1
Iron-soluble	USEPA 6010C NOTE 1	0.2 ^{NOTE1}	0.2 ^{NOTE1}	±25% ^{NOTE1}

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



Parameters	Standard Methods	Detection Limit	Reporting Limit	Precision									
Anti-scalant as Reactive phosphorus	APHA 4500P: B&F NOTE1	0.01 ^{NOTE1}	0.01 ^{NOTE1}	±25% ^{NOTE1}									

NOTE1: The testing methods, Quality Assurance/Quality Control (QA/QC) details, detection limits and accuracy shall be submitted to EPD for approval prior to the commencement of monitoring programme.

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

3.1.5. MONITORING LOCATION

The water quality monitoring locations for baseline in accordance to the EM&A Manual and Contract Specification are shown in Figure 3.1 and Figure 4.1 respectively, and detailed in Table 3.3 below. A schedule for water quality monitoring shall be prepared by the ET and approved by IEC and EPD prior to the commencement of the monitoring.

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, \sim 200m east of outfall diffuser
NF3	846742	813414	Edge of mixing zone, \sim 200m south of outfall diffuser

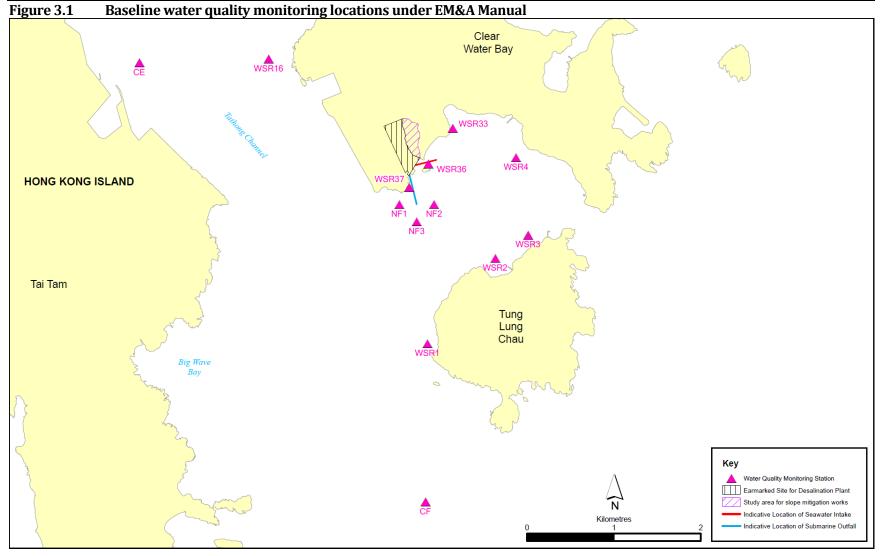
 Table 3.3 Location of Baseline Water Quality Monitoring Station



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.

Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Monthly EM&A Report No.12





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3.1.6. SAMPLING FREQUENCY

During periods when there are dredging works, impact monitoring should be 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 would be undertaken at both mid-ebb and mid-flood tides on the same day. The tidal range selected for the baseline monitoring will be at least 0.5 m for both flood and ebb tides as far as practicable. The interval between two sets of monitoring would not be 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.

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 will be recorded.

3.1.7. SAMPLING DEPTHS & REPLICATION

For baseline monitoring, each station will be sampled and measurements/ water samples will be 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 shall be taken. For stations that are less than 6 m in depth, only the surface and seabed sample shall be taken. For in situ measurements, duplicate readings shall be made at each water depth at each station. Duplicate water samples shall be collected at each water depth at each station.

3.2. MONITORING PROGRAMME

The ET of the Project 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 monitoring results was presented in Baseline Water Quality Monitoring Report separately.

The commencement of marine construction and dredging activities for the Project are scheduled in March 2021 the earliest. The impact water monitoring shall be scheduled after the commencement of marine construction and dredging activities. Hence, no water monitoring was conducted during the reporting month.



4. WASTE

The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Noninert 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 project 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 Project, 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 4.1Quantities of Waste Generated from the Project during December 2020

Reporting Month	Actu	al Quantities	of Inert C&I	D Materials G	Actual Quantities of C&D Wastes Generated Monthly						
	Total Quantity GeneratedHard Rock and Large Broken ConcreteReused in the Contract			Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / cardboard packaging	Plastics (see Note)	Chemical Waste	Others, e.g. general refuse
	(in ,000kg)	i ,000kg) (in ,000kg) (in ,000kg)		(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)
February 2021	0.000	0.000	0.000	0.000*	0.000	0.000	0.007	0.123	0.008	0.000	45.080

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

* The data will be updated next month.



5. LANDFILL GAS MONITORING

5.1. MONITORING REQUIREMENT

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.

5.2. MONITORING LOCATION

Monitoring of oxygen, methane, carbon dioxide and barometric pressure would be performed for excavations at 1m depth or more within the consultation Zone.

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.

For excavations between 300mm and 1m deep, measurements should be carried out:

- Directly after the excavation has been completed; and
- Periodically whilst the excavation remains open.

5.3. MONITORING PROGRAMME

For the part of the desalination plant and the indicative area of natural slope mitigation works fall within the SENT Landfill Extension Consultation Zone in this contract, since the SENT Landfill Extension is still under construction, the Landfill gas monitoring shall be conducted after the commencement of operation of the SENT Landfill Extension which will be 2021 Quarter 3 according to the latest construction programme shown in the monthly EM&A Report of SENT Landfill Extension. The Contractor's safety officer shall keep review the necessity of landfill gas monitoring during the construction stage. No landfill gas monitoring was conducted in the reporting period.



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

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

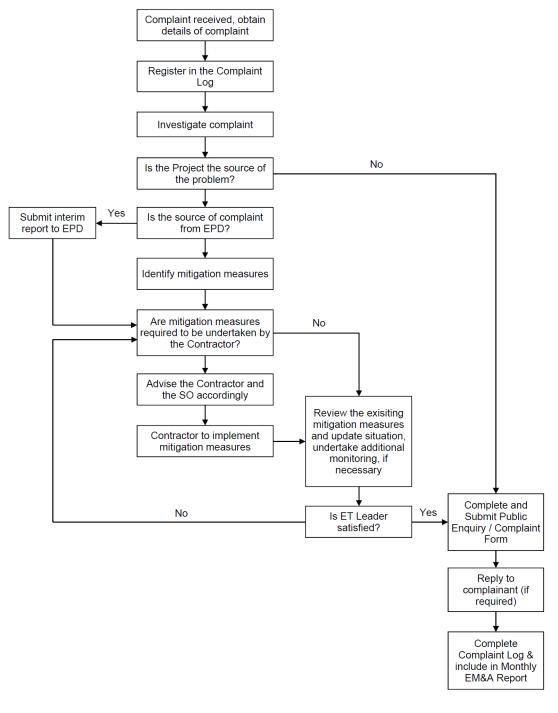


Figure 6.1 Environmental Complaint Handling Procedures

20



No noise monitoring was conducted during the reporting period since there are no project-related construction activities undertaken within a radius of 300m from the monitoring locations.

No impact water quality monitoring was conducted in the reporting month since the commencement of marine construction and dredging activities for the Project are scheduled in March 2021 the earliest.

No project-related exceedance of the Action Level was recorded during the reporting period.

No notification of summons and prosecution was received in the reporting period.

Statistics on complaints and regulatory compliance are summarized in Appendix J.



7. EM&A SITE INSPECTION

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 2, 9, 18 and 24 February 2021 at the site portions list in **Table 6.1** below.

Date	Inspected Site Portion	Time
02 February 2021	ТКО 137	14:35 – 17:00 PM
09 February 2021	TKO 137	14:30-17:00 PM
18 February 2021	TKO 137	13:30 – 16:10 PM
24 February 2021	TKO 137	09:30 – 12:30 PM

Table 7.1Summaries of Site Inspection Record

Two joint site inspection with IEC were carried out on 09 & 24 February 2021.

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.

Date	Environmental Observations	Follow-up Status
	Observation(s) and Recommendation(s)	Nil.
	1. No major observation was observed.	
02 February 2021	2. The Contractor was reminded to conduct	
	regular water spraying to reduce dust	
	emission (General) (reminder)	
	Observation(s) and Recommendation(s)	Nil.
	1. No major observation was observed.	
	2. General waste materials were observed in	
	the gully near ActiDAFF Area. The	
	Contractor was reminded to inspect the	
09 February 2021	gully conditions regularly (reminder).	
	3. Overflow of untreated wastewater within	
	the contractor site was observed. The	
	Contractor was reminded to ensure no	
	untreated water should be discharged at	
	Combine Shaft Area. (reminder).	
	Observation(s) and Recommendation(s)	Nil.
18 February 2021	1. No major observation was observed.	
10 1 cb1 dal y 2021	2. Housekeeping was reminded. (General)	
	(reminder).	
	Observation(s) and Recommendation(s)	Nil.
	1. Proper covering of stored cement or	
24 February 2021	pulverized fuel ash (>20 bags) on-site	
	should be implemented to limit dust	
	emission at Combined Shaft Area.	

Table 7.2Site Observations



Date	Environmental Observations	Follow-up Status
	2. Housekeeping was reminded at drainage	
	channel near kV132 and ActiDAFF Area	
	(reminder).	
	3. The Main Contractor shall pay attention to	
	not place construction materials near the	
	construction boundary at ActiDAFF Area to	
	prevent damage to trees nearby (reminder).	

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

Works to be undertaken in the next reporting month are:

- Land Survey;
- Combine shaft foundation construction;
- 132kV substation internal finishing and E&M installation;
- Construction of ActifDAFF perimeter wall and water tank;
- Construction of RO/electrical building ground floor slab;
- Construction for Product Water Storage Tank perimeter wall and footing of electrical building;
- Construction of post treatment building footing;
- Administration building pile load test and footing construction;
- Construction of Main electrical and chiller plant building footing
- Marine Dredging at Outfall Shaft
- Pipe piles driven and ELS construction work at intake Shaft
- Cable drawpit construction
- Excavation and laying yard piping

The major environmental impacts brought by the above construction works will include:

- Construction dust and noise generation from excavation, foundation and ELS installation works and construction works
- Waste generation from construction activities

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
- Reduction of noise from equipment and machinery on-site
- Sorting and storage of general refuse and construction waste

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 project-related construction activities undertaken within a radius of 300m from the monitoring stations.

The impact monitoring schedule for the next reporting month to be shown at **Appendix K** is intentionally left blank since no impact monitoring will be conducted in the next reporting month.



9. CONCLUSIONS AND RECOMMENDATIONS

This is the 12th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 February to 28 February 2021, in accordance with the EM&A Manual and the requirement under FEP-01/503/2015/A.

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.

No impact water monitoring was conducted in the reporting period due to no marine construction works and dredging activities were conducted in the reporting period.

No project-related exceedance of the Action / Limit Level was recorded during the reporting period.

Weekly environmental site inspection was conducted during the reporting period. Minor deficiency was observed during site inspection and was rectified. The environmental performance of the project was therefore considered satisfactory.

According to the environmental site inspections performed in the reporting month, the Contractor is reminded to pay attention on maintaining proper materials storage.

No environmental complaint was received in the reporting period.

No notification of summons or prosecution was received since commencement of the Contract.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.



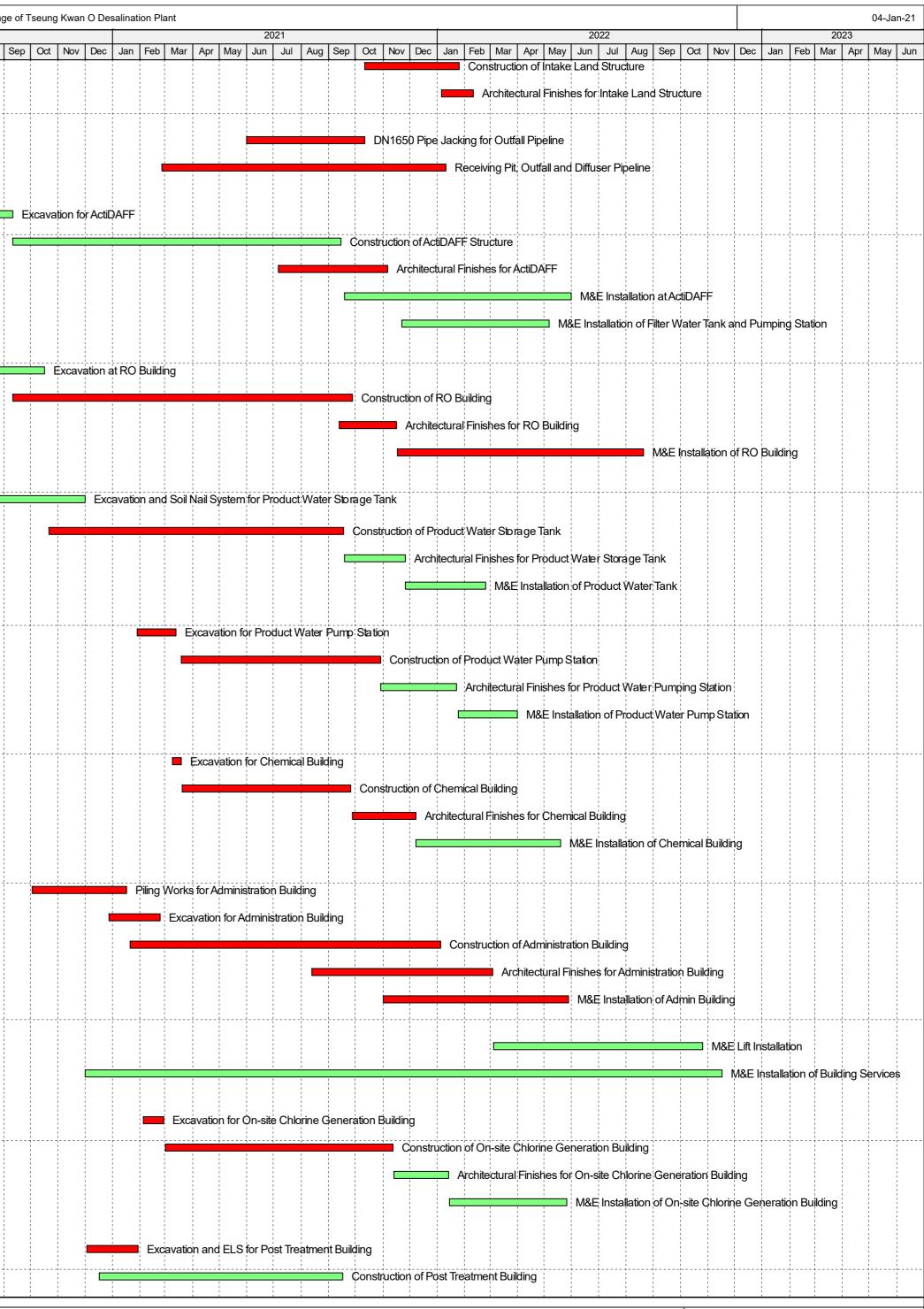
Appendix A

Master Programme

13/WSD/17								Design, I	Build and C	Operate Firs	st Stage of	f Tseung Kv	van O De	salination Plant										04-Jan-21
Activity ID	Activity Name	Calendar Origina Duratio	al Early Start	Early Finish	Total Float	Nev Dec		Max An		2020	Aur		Dec.		2021		Con Ort Nev I	Declar		2022		Deal lan Fal	2023	Max
Project Program	me (Level 2)					Nov Dec J	an Feb	Mar Apr			Aug Se		ov Dec	Jan Feb Mar Apr	May Jun J		Sep Oct Nov I	Dec Jan	Feb Mar Apr May Jur	i Jui Aug Sep		Dec Jan Fer	b Mar Apr	May Jun
Key Dates																								
	t and Completion Date																							
KD0000100	Letter of Acceptance	IWP0 - 7 0	15-Nov-19		0	◆ Letter of	Acceptanc	œ																
KD0000110	Commencement of the Works	IWP0 - 7 0	30-Dec-19		0	(Commenc	ement of	the Work	S														
KD0000120	Completion of the Works (1170 Days)	IWP0 - 7 0		13-Mar-23	0		·													· - i		· · · · · · · · · · · · · · · · · · ·	◆ Compl	letion of the \
KD0000130	EOT Granted for Completion of the Works (52.5 Days)	IWP0 - 7 53	14-Mar-23	05-May-23	0																			EOT Gra
KD0000500	Extended Completion of the Works	IWP0 - 7 0		05-May-23	0																			◆ Extende
KD0000510	Planned Completion of the Works incl. DfMA	IWP0 - 7 0		05-May-23	0																			♦ Planned
Executive Summ	naries																							
Preliminary Setu																								
ES0001000	Mobilization and Preliminary Set Up	IWP0 - 7 204	30-Dec-19	20-Jul-20	119						Nobiliżatic	on and Pre	liminary S	Set Up										
Civil Design AIP																								
ES0001010	AIP Civil Design Submission and Approval	IWP0 - 7 246	30-Dec-19	31-Aug-20	107						AI	IP Civil Des	sign Subr	nission and Approval										
ES0001020	DDA Civil Design Submission and Approval	IWP0 - 7 465	22-Jan-20	30-Apr-21	226			1							DDA Civil De	sign Subi	mission and Appro	oval						
M&E Design AIP														L					L					
ES0002000	M&E AIP Process Mechanical Submission and Approval	IWP0 - 7 359	30-Dec-19	22-Dec-20	111						1			M&EAIP Process Mech	nanical Submi	ssion and	Approval							
ES0002010	M&E DDA Process Mechanical Submission and Approval	IWP0 - 7 240	21-Jul-20	17-Mar-21	98						1			M&E D	DA Process M	lechanica	I Submission and A	Approval						
ES0002020	M&E AIP Instrumentation & Control Submission and Approval	IWP0 - 7 22	04-Feb-20	25-Feb-20	771			M&EAIP	Instrume	ntation & C	Control Su	ubmission	and Appr	roval										
ES0002030	M&E DDA Instrumentation & Control Submission and Approval	IWP0 - 7 349	30-Jan-21	13-Jan-22	158														1&E DDA Instrumentation &	Control Submissi	on and Approv	val		
ES0002050	M&E DDA Electrical and Renewable Energy Submission and	IWP0 - 7 144	17-Aug-20	07-Jan-21	70									M&E DDA Electrical	and Renewal	ole Energy	y Submission and a	Approval						
ES0002060	Approval M&E AIP Building Services Submission and Approval	IWP0 - 7 306	30-Dec-19	30-Oct-20	102								/&ÉAIPI	Building Services Subm	ission and Apr	oroval								
ES0002065	M&E Design Basis & Civil Guidance Dwg	IWP0 - 7 208		24-Jul-20	250						M&F Des			uidance Dwg										
								1									Ibmission and Ann	roud						
ES0002070	M&E DDA Building Services Submission and Approval	IWP0 - 7 379		14-Mar-21	31			-							DA Building Se	I VICES SU	Ibmission and App	rovai						
ES0002085	M&E AIP Site Electrical Submission and Approval	IWP0 - 7 124		22-Jul-20	202						M&EAIP	Site Electri	cal Subm	ission and Approval										
ES0002090	M&E DDA Lift Submission and Approval	IWP0 - 7 114	01-Oct-20	22-Jan-21	179									M&E DDA Lift Sul	bmission and .	Approval								
ES0002095	M&E DDA Site Electrical Submission and Approval	IWP0 - 7 246	23-Jul-20	25-Mar-21	256					Ē				M&E	DDA Site Elec	trical Subi	mission and Appro	oval						
ES0002100	M&E AIP T&C Design Submission and Approval	IWP0 - 7 155	18-Mar-22	19-Aug-22	89															M&E	AIP T&C Desi	ign Submissior	n and Approv	/al
ES0002110	M&E DDA T&C Design Submission and Approval	IWP0 - 7 60	20-Aug-22	18-Oct-22	89																M&E DI	DA T&C Desig	n Submissior	1 and Appro
Procurement of	Major Plant & Equipment Schedule																							
ES0002320	M&E Procurement of Major Plant, Equipment, Material and Delivery	IWP0 - 7 730	04-Feb-20	02-Feb-22	138										· · · · · · · · · · · · · · · · · · ·		·;;;;;;		M&E Procurement of Ma	jor Plant, Equipme	ent, Material ar	nd Delivery		
ES2420	M&E Procurement of Mechanical Equipment - Intake Pumps	IWP0 - 7 661	04-Feb-20	25-Nov-21	81			1			1							M&E Proc	urement of Mechanical Equ	ipment - Intake Ρι	ımps			
ES2430	M&E Procurement of Mechanical Equipment - ActiDAFF Underdrain	IWP0 - 7 385	02-Aug-20	21-Aug-21	27						1						M&E Procurement	t of Mecha	nical Equipment - ActiDAFF	Underdrain				
F00440				40.1.1.04	454												roouromont of Mov	obonical E	quipment - ActiDAFF Media					
ES2440	M&E Procurement of Mechanical Equipment - ActiDAFF Media	IWP0 - 7 361		18-Jul-21	151																			
ES2450	M&E Procurement of Mechanical Equipment - RO and ERD Rack	IWP0 - 7 425		19-Sep-21	58													ement of N	lechanical Equipment - RO					
ES2460	M&E Procurement of Mechanical Equipment - RO Membrane	IWP0 - 7 937		05-Sep-22	39																	ent of Mechan	ical Equipme	nt - RO Mer
ES2470	M&E Procurement of Electrical Equipment - CLP Substation for LV Switchboard / Genset / Building Services	IWP0 - 7 349	14-Mar-20	25-Feb-21	213						1			M&E Procu	urement of Ele	ctrical Eq	uipment - CLP Sub	bstation fo	r LV Switchboard / Genset /	Building Services				
132kV Substatio	n																							1 I 1 I 1 I 1 I 1 I 1 I 1 I 1 I
ES0001460	Excavation and Formation Works for 132kV Substation	IWP0 - 7 39	16-Mar-20	23-Apr-20	3				I Excava	tion and Fo	ormation	Works for	132kV S	ubstation										
ES0001470	Construction of 132kV Substation	IWP0 - 7 248	27-Apr-20	30-Dec-20	0									Construction of 132k	V Substation									
ES0001480	Architectural Finishes for 132kV Substation	IWP0 - 7 68	23-Nov-20	29-Jan-21	0									Architectural Fin	ishes for 132k	V Substa	tion		······································					
ES0002240	M&E Installation of 132kV Substation	IWP0 - 7 92	01-Dec-20	02-Mar-21	0									M&E Insta	allation of 132k	V Substa	tion							I I I I I I I I I I I I J
Combine Shaft																								
ES0001060	Construction of Combine Shaft	IWP0 - 7 350	02-May-20	16-Apr-21	0									c	Construction of	Combine	e Shaft							1 I 1 I 1 I 1 I 1 I 1 I 1 I 1 I
ES0002120	M&E Installation at Combine Shaft	IWP0 - 7 123	11-Feb-22	13-Jun-22	0															M&E Installation a	t Combine Sh	aft		
Intake																								
ES0001070	DN2500 Pipe Jacking for Intake Pipeline	IWP0 - 7 176	17-Apr-21	09-Oct-21	0									-			DN2500 I	Pipe Jack	ng for Intake Pipeline					I I I I I I I I I I I I
ES0001080	Receiving Pit and Marine Intake Structure	IWP0 - 7 460	07-Mar-21	09-Jun-22	0															Receiving Pit and I	Varine Intake	Structure		
Summary Bar	Early Bar	Page 1 of 4					1			1	i		i					i				<u> </u>		<u> </u>
Actual Summary	Critical Bar										Proę	gramme	of the	Works								acciona	JEC GARLE	
Actual Work	♦ ♦ Milestone																					AJC JOINT	VENTURE	1



ID	Activity Name	Calendar	Original	Early Start	Early Finish	Total									020
ES0001110	Construction of Intake Land Structure	IWP0 - 7	Duration 107	11-Oct-21	25-Jan-22	Float 0	Nov [Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
ES0001110	Architectural Finishes for Intake Land Structure	IWP0 - 7		06-Jan-22	10-Feb-22	0									
		1000-7	- 30	00-Jan-22	10-Feb-22	0									
utFall ES0001090	DN1650 Pipe Jacking for Outfall Pipeline	IWP0 - 7	134	31-May-21	11-Oct-21	0									
S0001100	Receiving Pit, Outfall and Diffuser Pipeline	IWP0 - 7		25-Feb-21	10-Jan-22	0									
ctiDAFF			020	2010521								1			
ES0001140	Excavation for ActiDAFF	IWP0 - 7	142	22-Apr-20	10-Sep-20	3							-	-	
ES0001150	Construction of ActiDAFF Structure	IWP0 - 7	369	11-Sep-20	14-Sep-21	3					1 1 1				
ES0001160	Architectural Finishes for ActiDAFF	IWP0 - 7	124	06-Jul-21	06-Nov-21	0									
ES0002130	M&E Installation at ActiDAFF	IWP0 - 7		18-Sep-21	31-May-22	20									
ES0002140	M&E Installation of Filter Water Tank and Pumping Station	IWP0 - 7		22-Nov-21	06-May-22	22									
		100-7	100	22-1100-21	00-iviay-22	22						1 4 1 1			
<mark>leverse Osmos</mark> ES0001170	Excavation at RO Building	IWP0 - 7	115	24-Jun-20	16-Oct-20	6								Г	
ES0001180	Construction of RO Building	IWP0 - 7		11-Sep-20	27-Sep-21	0									
ES0001190	Architectural Finishes for RO Building	IWP0 - 7		13-Sep-21	16-Nov-21	0									
				-								1			
ES0002150	M&E Installation of RO Building	IWP0 - 7	277	17-Nov-21	20-Aug-22	0									
P <mark>roduct Water S</mark> ES0001240	Excavation and Soil Nail System for Product Water Storage Tank	IWP0 - 7	161	24-Jun-20	01-Dec-20	3									
ES0001250	Construction of Product Water Storage Tank	IWP0 - 7		21-Oct-20	17-Sep-21	0									
ES0001260	Architectural Finishes for Product Water Storage Tank	IWP0 - 7		18-Sep-21	25-Nov-21	5						1			
ES0002210	M&E Installation of Product Water Tank	IWP0 - 7	91	26-Nov-21	24-Feb-22	44									
	Pumping Station														
ES0001270	Excavation for Product Water Pump Station	IWP0 - 7		29-Jan-21	13-Mar-21	0									
ES0001280	Construction of Product Water Pump Station	IWP0 - 7	225	19-Mar-21	29-Oct-21	0						8			
ES0001290	Architectural Finishes for Product Water Pumping Station	IWP0 - 7	86	29-Oct-21	22-Jan-22	5									
ES0002215	M&E Installation of Product Water Pump Station	IWP0 - 7	67	24-Jan-22	31-Mar-22	28									
Chemical Buildi		114/00 7	44	00 M 01	10.04					4		4			
ES0001300	Excavation for Chemical Building	IWP0 - 7		09-Mar-21	19-Mar-21	0									
ES0001310	Construction of Chemical Building	IWP0 - 7		20-Mar-21	25-Sep-21	0									
ES0001320	Architectural Finishes for Chemical Building	IWP0 - 7	72	27-Sep-21	07-Dec-21	0						1			
ES0002220	M&E Installation of Chemical Building	IWP0 - 7	163	08-Dec-21	19-May-22	9						1			
dministration I															
ES0001330	Piling Works for Administration Building	IWP0 - 7		03-Oct-20	16-Jan-21	0									
ES0001340	Excavation for Administration Building	IWP0 - 7		28-Dec-20	23-Feb-21	0									
ES0001350	Construction of Administration Building	IWP0 - 7	349	21-Jan-21	04-Jan-22	0									
ES0001360	Architectural Finishes for Administration Building	IWP0 - 7	204	13-Aug-21	04-Mar-22	0									
ES0002230	M&E Installation of Admin Building	IWP0 - 7	209	01-Nov-21	28-May-22	0									
_	es & Lift Installation										1				
ES0002270	M&E Lift Installation	IWP0 - 7	235	05-Mar-22	25-Oct-22	76									
ES0002280	M&E Installation of Building Services	IWP0 - 7	716	01-Dec-20	16-Nov-22	69						1			
SCG Building															
ES0001400	Excavation for On-site Chlorine Generation Building	IWP0 - 7	23	05-Feb-21	27-Feb-21	0									
ES0001410	Construction of On-site Chlorine Generation Building	IWP0 - 7	257	01-Mar-21	12-Nov-21	0						8			
ES0001420	Architectural Finishes for On-site Chlorine Generation Building	IWP0 - 7	62	13-Nov-21	13-Jan-22	8									
ES0002200	M&E Installation of On-site Chlorine Generation Building	IWP0 - 7	133	14-Jan-22	26-May-22	9									
ost Treatment	Building											1			
ES0001210	Excavation and ELS for Post Treatment Building	IWP0 - 7	58	03-Dec-20	29-Jan-21	0									
ES0001220	Construction of Post Treatment Building	IWP0 - 7	274	17-Dec-20	16-Sep-21	4									
	Early Bar	Page 2]	1					<u>. </u>					
Summary Bar															





ES0001230			Duration			. Lloot														
200001200	Architectural Finishes for Post Treatment Building	IWP0 - 7	Ļ	17-Sep-21	07-Jan-22	Float 4	Nov Dec	Jan	Feb	Mar	Apr N	May	Jun	Jul Au	ıg Sep	Oct	Nov	Dec	Jan	Feb
ES0002180	M&E Installation of Post Treatment System	IWP0 - 7		08-Jan-22	28-Jun-22	4														
		1000-7	172	00-Jan-22	20-Juli-22	4														
Sludge Thickene ES0001680	Excavation and ELS for Sludge Thickener	IWP0 - 7	71	19-Jun-21	28-Aug-21	10							1 1 1 1							i I I I
ES0001690	Construction of Sludge Thickener	IWP0 - 7	109	30-Aug-21	16-Dec-21	12													· · · · · · · · · · · · · · · · · · ·	
ES0001700	Architectural Finishes for Sludge Thickener	IWP0 - 7		17-Dec-21	08-Feb-22	9														
ES0002190	M&E Installation of Sludge Thickener	IWP0 - 7		09-Feb-22	22-Jun-22	10														
						10														
Irrigation Tank & ES0001550	Piling for Irrigation Tank and Pump Room	IWP0 - 7	66	14-Apr-21	18-Jun-21	61														
ES0001560	Excavation for Irrigation Tank and Pump Room	IWP0 - 7	8	17-Sep-21	24-Sep-21	21														
ES0001570	Construction of Irrigation Tank and Pump Room	IWP0 - 7	185	25-Sep-21	28-Mar-22	45														
ES0001580	Architectural Finishes for Irrigation Tank and Pump Room	IWP0 - 7	72	24-Feb-22	06-May-22	41														
nspection Galler																				
ES0001590	Piling for Inspection Gallery (Elevated Walkway)	IWP0 - 7	31	15-Dec-20	14-Jan-21	84													💻 Pil	iling
ES0001600	Excavation for Inspection Gallery	IWP0 - 7	120	12-May-21	08-Sep-21	33												· · · · · · · · · · · · · · · · · · ·		
ES0001610	Construction of Inspection Gallery	IWP0 - 7	397	20-May-21	20-Jun-22	31														
ES0001620	Architectural Finishes for Inspection Gallery	IWP0 - 7	82	21-Jun-22	10-Sep-22	34														
Jain Electrical a	nd Central Chiller Plant Building												1							
ES0001430	Excavation for Main Electrical and Central Chiller Plant Building	IWP0 - 7	6	04-Jan-21	09-Jan-21	0													Exc	cava
ES0001440	Construction of Main Electrical and Central Chiller Plant Building	IWP0 - 7	216	11-Jan-21	14-Aug-21	0														
ES0001450	Architectural Finishes for Main Electrical and Central Chiller Plant	IWP0 - 7	97	16-Jul-21	20-Oct-21	0														
ES0002260	Building M&E Installation of LV/HV Cabling and Field Panels	IWP0 - 7	251	21-Oct-21	28-Jun-22	4														
			201	21 00(21		-														
Guard House ES0001490	Excavation for Guard House at Main Gate	IWP0 - 7	7	17-Apr-21	23-Apr-21	3														
ES0001500	Construction of Guard House at Main Gate	IWP0 - 7	143	24-Apr-21	13-Sep-21	2						·	, L L 							
ES0001510	Architectural Finishes for Guard House at Main Gate	IWP0 - 7		14-Sep-21	23-Nov-21	200														
ES0001520	Excavation for Guard House near Pier	IWP0 - 7		28-Sep-21	06-Oct-21	20														
ES0001530	Construction of Guard House near Pier	IWP0 - 7		07-Oct-21	07-Mar-22	18														
ES0001540	Architectural Finishes for Guard House near Pier	IWP0 - 7		08-Mar-22	23-May-22	19														
		100-7		00-11101-22	20-1110y-22	10												· · · · · · · · · · · · · · · · · · ·		
CO2 Tank ES0001370	Filling to Formation for CO2 Tanks Area	IWP0 - 7	30	21-Apr-21	20-May-21	78														
ES0001380	Construction of CO2 Tanks Area	IWP0 - 7	116	21-May-21	13-Sep-21	79														
ES0001390	Architectural Finishes for CO2 Tanks Area	IWP0 - 7	73	14-Sep-21	25-Nov-21	87														
ES0002170	M&E Installation of CO2 Tank	IWP0 - 7		26-Nov-21	12-Apr-22	198														
			100		, pi 22	100			+		·		·							
Diesel Emergenc ES0002250	M&E Diesel Emergency Generator	IWP0 - 7	57	12-Feb-22	09-Apr-22	26														
witch Room an	d Transformer Installation											1	1							
ES0002300	M&E Installation of HV/LV Switchroom and Transformer	IWP0 - 7	290	25-Nov-21	10-Sep-22	84														
Miscellaneous																				
ES0001630	Remaining Architectural Finishes for All Buildings	IWP0 - 7	231	13-May-22	29-Dec-22	37														
ES0001640	External Process and Non-Process Pipe	IWP0 - 7	581	13-Mar-21	14-Oct-22	4														
ES0001650	Road and Drainage	IWP0 - 7	530	12-Jun-21	23-Nov-22	98							1							
ES0001660	Slope Mitigation and Maintenance Access	IWP0 - 7	642	22-Feb-21	25-Nov-22	137							1 1 1 1 1							1
ES0001670	Landscaping Works	IWP0 - 7	438	05-Nov-21	16-Jan-23	109														
ES0002290	M&E PV Panels	IWP0 - 7	191	17-Nov-21	26-May-22	25					·									
ES0002310	M&E Chiller & Irrigation System Installation	IWP0 - 7	392	21-Oct-21	16-Nov-22	139														
ES0002350	M&E Installation of Surge Vessel	IWP0 - 7	198	13-Jan-22	29-Jul-22	127														
ES0002360	M&E Installation of Flowmeter Pit	IWP0 - 7		13-Jan-22	23-Mar-22	43														
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Summary Bar	Early Bar Critical Bar	Page 3	014																Work	

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04-Jan-21

ity ID	Activity Name	Calendar Original Early Start	Early Finish	Total			2020			2021		2022		2023
,		Duration		Float Nov	Dec Ja	n Feb Mar A	pr May Jun Jul	Aug Sep Oct Nov D	Dec Jan Feb Mar	Apr May Jun Jul Aug Sep Oc	t Nov Dec Jan Feb Mar A	pr May Jun Jul Aug Ser	p Oct Nov Dec Jan Feb	Mar Apr Ma
ES0002370	M&E Installation of Static Mixer Pit	IWP0 - 7 41 28-Mar-22	07-May-22	0								M&E Installation of Static	c Mixer Pit	
ES0002380	M&E Installation of Drainage Pit	IWP0 - 7 30 25-Feb-22	26-Mar-22	40			·				N	&E Installation of Drainage Pit		
ES0002390	M&E Installation of Thickened Sludge Holding Tank	IWP0 - 7 45 08-Jan-22	21-Feb-22	73							M&E Ins	tallation of Thickened Sludge I	Holding Tank	
Statutory Sub	mission & Inspection													
ES0002330	Statutory Submission & Inspection	IWP0 - 7 1187 30-Dec-19	30-Mar-23	36										Statuto
Testing and C	ommissioning		1											
ES0002400	M&E Precomissioning	IWP0 - 7 253 20-Apr-22	28-Dec-22	0									M&E Pred	omissioning
ES0002410	M&E Commissioning	IWP0 - 7 236 13-May-22	03-Jan-23	0									M&E Co	mmissioning
ES0002420	M&E Performance Test	IWP0 - 7 122 04-Jan-23	05-May-23	0										

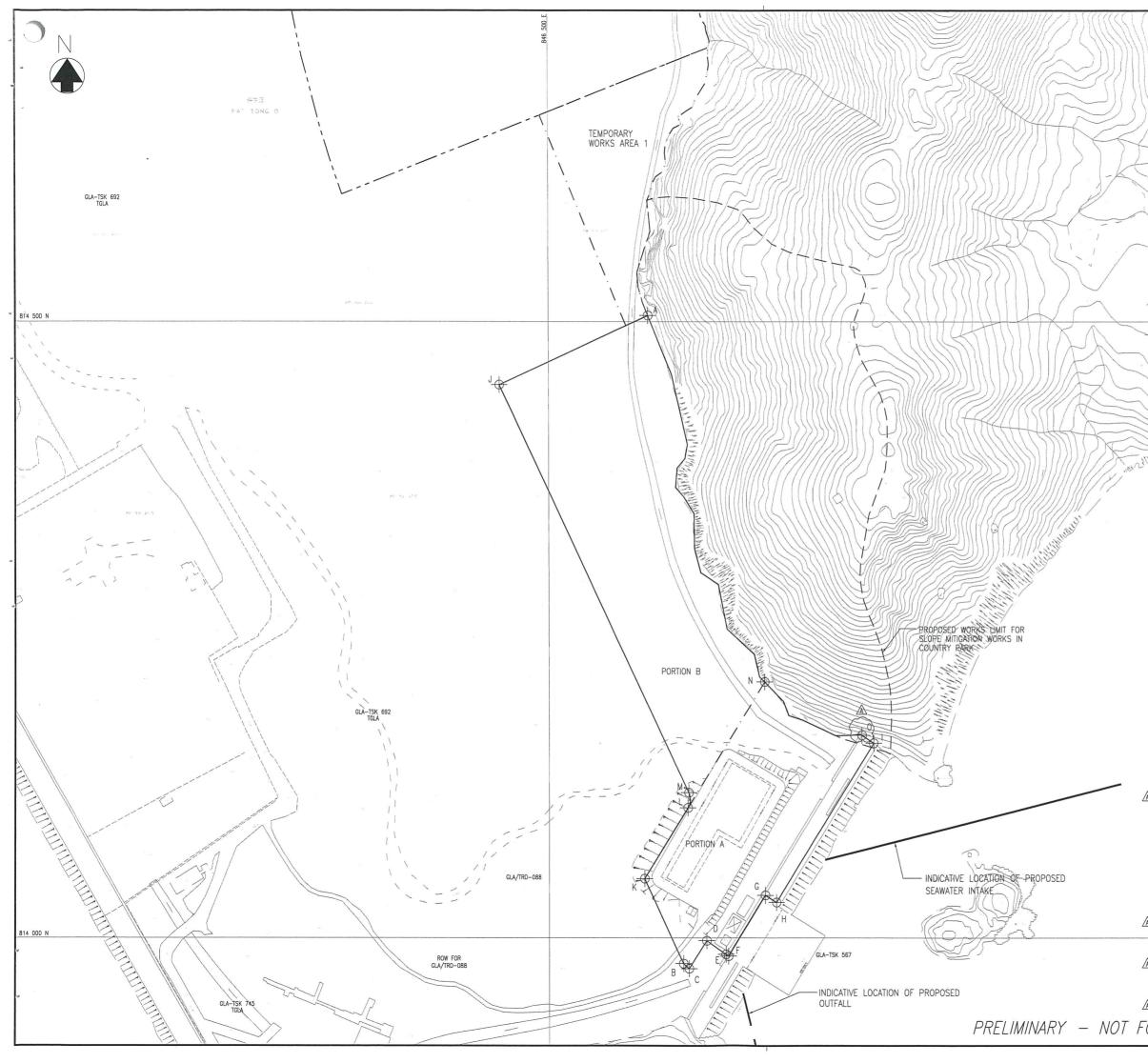
Summary Bar	Early Bar
Actual Summary	Critical Bar
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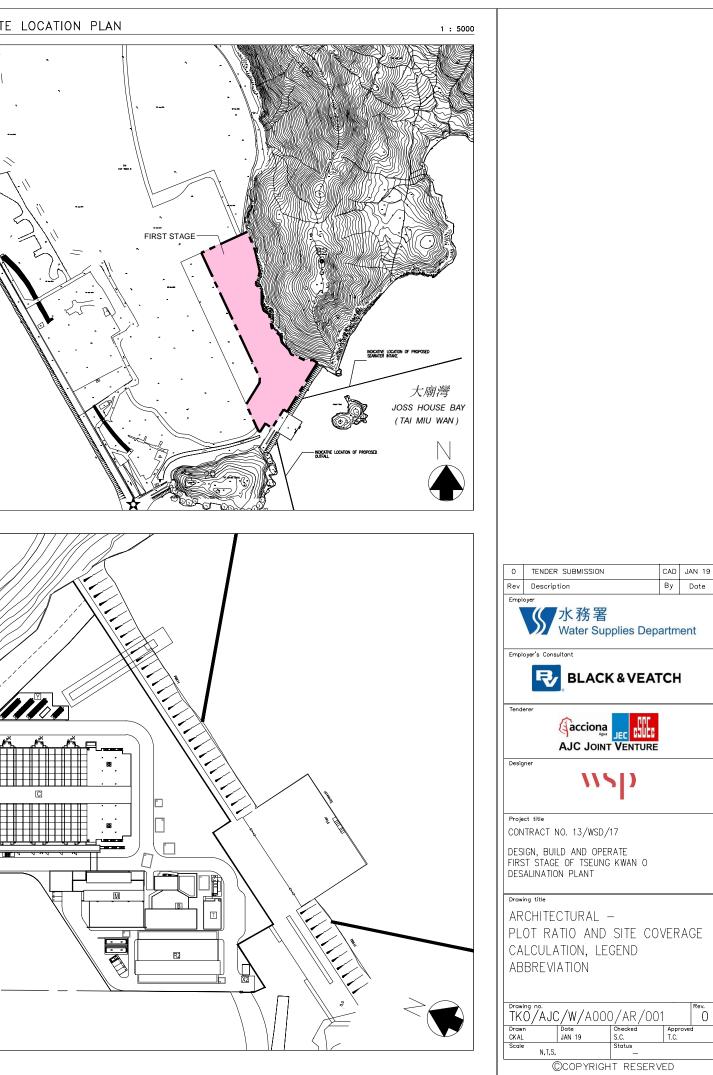
Appendix B

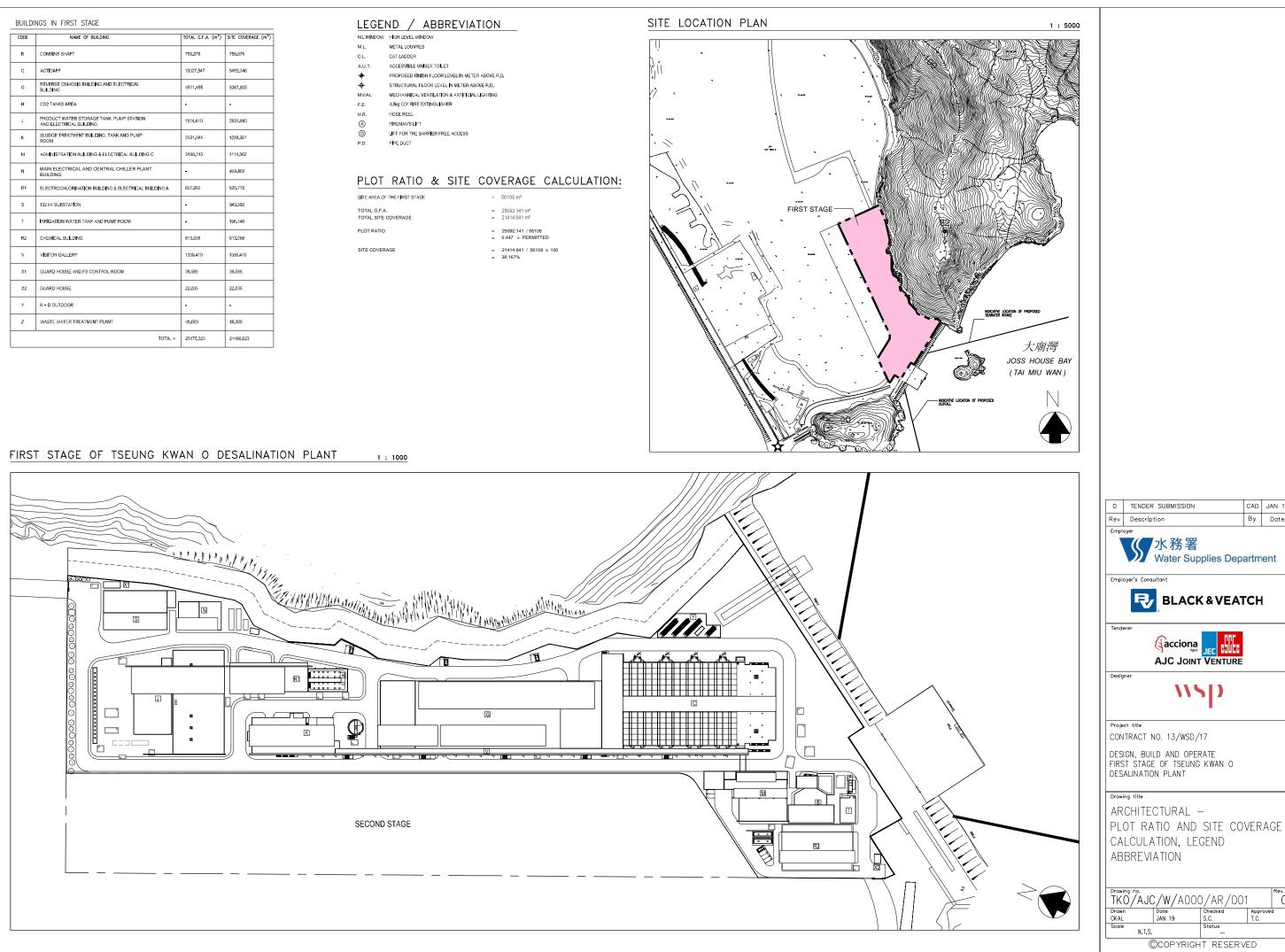
Overview of Desalination Plant in Tseung Kwan O



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	1		010010.11		
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		D E F G H I J K L	846614.73 846629.09 846644.75 846646.80 846677.24 846686.56 8466766.21 8466578.45 8466578.45 846613.89	813997.84 813986.74 813985.28 814034.67 814028.89 814158.11 814448.83 814048.11 814405.63	DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. 190495/K/TEND/10/0003 B Scele A1 1 : 1500 A3 1 : 3000 水務署
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CODE	NAME OF BUILDING	TOTAL G.F.A. (m ²)	SITE COVERAGE (m ²)
В	COMBINE SHAFT	759.876	759.876
с	ACTIDAFF	10027.547	5455 <u>.</u> 346
G	REVERSE OSMOSIS BUILDING AND ELECTRICAL BUILDING	4511,455	5367,935
н	CO2 TANKS AREA	-	-
J	PRODUCT WATER STORAGE TANK, PUMP STATION AND ELECTRICAL BUILDING	1974.610	2933.980
к	SLUDGE TREATMENT BUILDING, TANK AND PUMP ROOM	2531.044	1228.361
м	ADMINISTRATION BUILDING & ELECTRICAL BUILDING C	2459.713	1114_062
N	MAIN ELECTRICAL AND CENTRAL CHILLER PLANT 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
Y	R + D OUTDOOR	-	-
z	WASTE WATER TREATMENT PLANT	48.000	48.000
	TOTAL =	25175.323	21498.023







Appendix C

Summary of Implementation Status of Environmental Mitigation



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	Imple Stage		ation	Implementation	Relevant Legislation & Guidelines
Reference	Mitigation Measures	main concerns to address	implementation Agent	D	С	0	status	
Air Quality	7						L	
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)		-		N/A	Air Pollution Control (Construction Dust)
S4.8.1	Impervious sheet will be provided for skip hoist for material transport.	Land site/ During Construction, particularly dry season	Contractor(s)		~		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)		•		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)		•		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)		~		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)		•		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)		•		Implemented	
S4.8.1	Road sections between vehicle-wash areas and vehicular entrance will be paved.	Land site/ During Construction	Contractor(s)		√		Implemented	



	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	Imple Stage		ation	Implementation	Relevant Legislation & Guidelines
Reference	Mitigation Measures	main concerns to address	implementation rigent	D	C	0	status	
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)	•	~		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)		~		Implemented	
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)		-		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)		•		Implemented, rectified after observation.	
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 construction/ During Operation	Contractor(s)		•	✓	Implemented	Environment, Transport and Works Bureau Technical Circular (ETWB- TC(W)) No 19/2005 on Environmental Management on Construction Sites
S4.8.1	The engine of the construction equipment during idling will be switched off.	Land site/ During construction	Contractor(s)		~		Implemented	



	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	Imple Stage		ation	Implementation	Relevant Legislation & Guidelines
Reference	Mitigation Measures	main concerns to address	Implementation Agent	D	C	0	status	
\$4.8.1	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.	Land site/ During construction	Contractor(s)		•		N/A	
S4.8.1	Regular maintenance of construction equipment deployed on-site 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	Objectives of the recommended measures &	Implementation	Implen Stage	nenta	tion	Implementation status	Relevant Legislation
Reference	e Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0	-	& Guidelines
Noise								
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 Reduction of Noise from 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 Reduction of Noise from Construction Works,
S5.7	Mobile plant, if any, will be sited as far away from NSRs as possible.	Noise control/ During construction	Contractor(s)		~		N/A	A Practical Guide for the Reduction of Noise from 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)		~		Implemented	A Practical Guide for the Reduction of Noise from 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)		~		N/A	A Practical Guide for the Reduction of Noise from 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 Reduction of Noise from Construction Works,
S5.7	Use of Quite Powered Mechanical Equipment (QPME).	Noise control/ During construction	Contractor(s)		•		Implemented	A Practical Guide for the Reduction of Noise from 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 ⁻² and have	Noise control/ During construction	Contractor(s)		•		N/A	A Practical Guide for the Reduction of Noise from Construction Works,



	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Imple Stage	menta	tion	Implementation status	Relevant Legislation & Guidelines
Reference	Measures/ Mitigation Measures	main concerns to address	Agem	D	С	0		& Guidennes
S5.7	no openings or gaps. 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 the Reduction of Noise from Construction Works,
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)	Ý	•		Implemented	A Practical Guide for the Reduction of Noise from 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 the Reduction of Noise from 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- construction/ During construction	Contractor(s)	✓	•		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- construction/ During construction	Contractor(s)	•	•		N/A	



EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imple Stage	menta	tion	status	Relevant Legislation
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0		& Guidelines
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- construction/ During construction	Contractor(s)		•		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 (ET)		~		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)/ Environmental Team (ET) & Independent Environmental Checker (IEC)		√		Implemented	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to	Implementation Agent	Impler Stage	nentati	ion	Implementation status	Relevant Legislation & Guidelines
	Measures/ Miligation Measures	address	Agent	D	С	0		Gulueimes
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).	Marine Dredging/ During construction	Contractor(s)		~		N/A	Dumping at Sea Ordinance (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)		1		N/A	-
\$6.9	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.	Marine Dredging/ During construction	Contractor(s)		•		N/A	-
S6.9	After dredging, any excess materials will be cleaned from decks and exposed fittings before the vessel is moved from the dredging area.	Marine Dredging/ During construction	Contractor(s)		~		N/A	-
S6.9	All vessels should be well maintained and inspected before use to limit any potential discharges to the marine environment.	Marine Dredging/ During construction	Contractor(s)		~		N/A	-
S6.9	All vessels must have a clean ballast system.	Marine Dredging/ During construction	Contractor(s)		1		N/A	-
\$6.9	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.	Marine Dredging/ During construction	Contractor(s)		•		N/A	-
\$6.9	No soil waste is allowed to be disposed overboard.	Marine Dredging/ During construction	Contractor(s)		1		N/A	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to	Implementation Agent	Imple Stage	ementat	ion	Implementation status	Relevant Legislation & Guidelines
	Measures/ Miligation Measures	address	Agent	D	С	0		Guidennes
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 and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Land site & drainage/ During construction	Contractor(s)		•		Implemented, rectified after reminder	ProPECC PN 1/94 TM Standard under the WPCO
\$6.9	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)		·		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	-



EIA Reference	Recommended Environmental Protection	Objectives of the recommender measures & main concerns to	Implementation	Impler Stage	nentat	ion	Implementation status	Relevant Legislation & Guidelines - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
	Measures/ Mitigation Measures	address	Agent	D	C	0	1	Guidelines
\$6.9	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)		*		Implemented	-
\$6.9 and \$6.12	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.	Sterilization of water mains prior to commissioning	Contractor(s)		×	×	N/A	Drainage and Sewerage Systems Inland and Coastal
\$6.9	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)		-	v	N/A	Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures & main concerns to	Implementation Agent				-		Implementation Stage			Implementation status	Relevant Legislation & Guidelines
	Measures/ Mitigation Measures	address	Agent	D	С	0		Guidennes					
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.	Land site & drainage/ During construction/ During operation	Contractor(s)		~	•	Implemented, rectified after reminder.	-					
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.	During construction	Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC)		~		Implemented	-					



EIA Reference	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imple Stage	mentat	ion	Implementation Status	Relevant Legislation &
	Mitigation Measures	main concerns to address	Agent	D	С	0		Guidelines
Waste Manage							-	
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/ During construction	Contractor(s)				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/ During construction	Contractor(s)				Implemented	-
S8.5	Provision of sufficient waste disposal points and regular collection for disposal.	All area/ During construction/ During operation	Contractor(s)		•	•	Implemented	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
\$8.5	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)		•		Implemented	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
S8.5	A waste management plan (WMP) as stated in the <i>"ETWB TC(W) No. 19/2005, Environmental</i> <i>Management on Construction Sites"</i> 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, Environmental Management on 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)		~		N/A	Chapters 2 & 3 Code of Practice on the Packaging, Labelling & Storage of Chemical Wastes published under the Waste Disposal Ordinance (Cap 354), Section 35
S8.5	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	Land site/ During construction	Contractor(s)		~		Implemented, rectified after	Waste Disposal Ordinance (Cap 354)



EIA Reference	Recommended Environmental Protection Measures/	r_{0}	Implementation	Implei Stage	nentat	ion	Implementation Status	Relevant Legislation &
	Mitigation Measures	main concerns to address	Agent	D	С	0		Guidelines
							reminder.	
S8.5	A recording system for the amount of wastes generated/recycled and disposal sites. The trip- ticket system will be included as one of the contractual requirements and implemented by the contractor(s).	Land site/ During construction	Contractor(s)		~		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & 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 construction/ During operation	Contractor(s)		~		Implemented	WBTC 32/92, The Use of Tropical Hard Wood on 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)				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)		√		N/A	-
S8.5	Use of reusable non-timber formwork to reduce the amount of C&D materials.	All areas/ During construction	Contractor(s)		√		N/A	WBTC 32/92, The Use of Tropical Hard Wood on 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, Trip Ticket System for Disposal of Construction & 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, rectified after reminder.	-
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	-
\$8.5	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)				N/A	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)
S8.5	The management of dredged/ excavated sediment	Marine works/ During	WSD/		✓		Implemented	ETWB TC(W) No. 34/2002



EIA Reference	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Impler Stage	nentat	ion	Implementation Status	Relevant Legislation &
	Mitigation Measures	main concerns to address	Agent	D	С	0		Guidelines
	management requirement from <i>ETWB TC(W)</i> No. 34/2002 will be incorporated in the Specification of the Contract Documents.	construction	Contractor(s)					and Dumping at Sea 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 payment of disposal charges.	Contract mobilisation/ During construction	Contractor(s)		-		Implemented	Cap 354N Waste Disposal (Charges for Disposal of 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/ During construction	Contractor(s)		-		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
\$8.5	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)		✓		Implemented	ETWB TC(W) No. 19/2005, Environmental Management on 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)		✓		Implemented	Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 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)		~		N/A	-
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)		•		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)		•		Implemented	Air Pollution Control (Construction Dust) Regulation (Cap 311R); WPCO (Cap 358)



EIA Reference	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Impler Stage	nentat	ion	Implementation Status	Relevant Legislation &
	Mitigation Measures	main concerns to address	Agent	D	C	0		Guidelines
S8.5	Open stockpiles of excavated/ fill materials or construction wastes on-site should be covered with tarpaulin or similar fabric.	Land site/ During Construction, particularly dry season	Contractor(s)		•		Implemented	Air Pollution Control (Construction Dust) 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/ During operation	Contractor(s)/ WSD		*	✓	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of 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 construction/ During operation	Contractor(s)/ WSD		•	√	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of 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/ During operation	Contractor(s)/ WSD		•	√	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
S8.5	Storage areas for chemical waste shall be enclosed on at least 3 sides.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	✓	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of 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/ During operation	Contractor(s)/ WSD		•	•	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
\$8.5	Storage areas for chemical waste shall have adequate ventilation.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	•	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes



EIA Reference	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Impleı Stage	nentat	ion	Implementation Status	Relevant Legislation &
	Mitigation Measures	main concerns to address	Agent	D	С	0		Guidelines
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/ During operation	Contractor(s)/ WSD		-	•	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
S8.5	Storage areas for chemical waste shall be arranged so that incompatible materials are appropriately separated.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	•	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of 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/ During operation	Contractor(s)/ WSD		~	√	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
S8.5	Adequate number of waste containers will be provided to avoid over-spillage of waste.	All area/ During construction/ During operation	Contractor(s)/ WSD		√	√	Implemented	DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and 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/ During operation	Contractor(s)/ WSD		-	√	Implemented	-
\$8.5	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/ During operation	Contractor(s)/ WSD		~	~	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)		~		Implemented	-
S8.5	The burning of refuse on construction sites is prohibited by law.	All area/ During construction	Contractor(s)		1		Implemented	Air Pollution Control 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	All facilities/ During construction	ET/ IEC		√		Implemented	-



FIA Rotoronco	Mitigation Measures	recommended measures &	Implementation	Implen Stage	nentati	on	Implementation Status	Relevant Legislation & Guidelines
	Mitigation Measures	main concerns to address	Agent	D	C	0		Guidennes
	implemented throughout the construction phase.							



		Objectives of the	Implementation	Impler	mentat	ion	Implementation	Relevant Legislation &
	Mitigation Measures	recommended measures &	Agent	Stage			Status	Guidelines
		main concerns to address	rigent	D	C	0		Guidennes
	Ecology					1		1
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 plates, soil nails and rock dowels will be prepared to illustrate how the setback distance from existing trees would be implemented for tree avoidance.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	Ŷ	•		Implemented	-
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)		1		Implemented	
\$9.7	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>in- situ</i> , by positioning the alignment of flexible barrier at a minimum 1.5m in a radius away from these individuals.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	~	✓		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 area/ During detailed design/ During construction	Contractor(s)	V	•		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 area/ During construction	Contractor(s)		•		N/A	-



		Objectives of the recommended measures &	Implementation	Impleı Stage	nentat	ion	Implementation Status	Relevant Legislation & Guidelines
	Miligation Measures	main concerns to address	Agent	D	С	0		Guidennes
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 proposed alignment of the flexible barriers will be prepared to protect the species.	Slope mitigation works area/ During construction	Contractor(s)		*		N/A	-
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 area/ During construction	Contractor(s)		•		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)		√		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)		•		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)/ Environmental Team (ET)		~		Implemented	-
\$9.7	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)		*		Implemented	-
\$9.7	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)		•		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	-



EIA	Recommended Environmental Protection Measures/ Mitigation	Objectives of the recommended	Implementation			ation	Implementation Status	Relevant
Reference	Measures	measures & main concerns to address	Agent	D	C	0		Legislation & 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 design/ During construction/ During operation	WSD/ Contractor(s)	•	•	~	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/ Contractor(s)	•	~	~	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/ Contractor(s)	~	~	•	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 design/ During construction/ During operation	WSD/ Contractor(s)	•	•	•	Implemented	ETWB TCW No. 3/2006 - 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 design/ During construction/ During operation	WSD/ Contractor(s)	•	~	•	Implemented	DEVB TC(W) No. 10/2013
S11.10 &	Any slope mitigation works necessary to address natural terrain	All area/ Detailed	WSD/	1	✓	1	N/A	



EIA	Recommended Environmental Protection Measures/ Mitigation	Objectives of the recommended	Implementation	Implementation Stage			Implementation Status	Relevant Legislation &
Reference	Measures	measures & main concerns to address	Agent	D	С	0		Guidelines
11.11	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 necessary, the best planting matrix with native species will be established, with the aim of resembling the existing vegetation. (MM6)	design/ During construction/ During operation	Contractor(s)					
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 design/ During construction/ During operation	WSD/ Contractor(s)	•	~	•	N/A	
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 design/ During construction/ During operation	WSD/ Contractor(s)	•	~	•	Implemented	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation	Stage	1	1	Implementation Status	n Relevant Legislation & Guidelines
		main concerns to address	Agent	D	С	0		
	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)	-	✓	 ✓ 	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)	•	•	~	N/A	
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)	×	×	~	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)	•	•	~	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	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	•	`	Implemented	



EIA Reference	Recommended Environmental Protection	recommended measures x	Implementation		ementa	ation	Implementation Status	Relevant Legislation & Guidelines
	Measures/ Mitigation Measures		Agent	D	C	0		
	physical contact with it.							
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)	*	•	*	N/A	
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)	•	•	•	N/A	
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)	~	-	•	Implemented	
\$12.7	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)	V	V	•	Implemented	



EIA Reference	Recommended Environmental Protection	recommended measures &	Implementation	-	ementa	ation	Implementation Status	Relevant Legislation & Guidelines
	Measures/ Mitigation Measures		Agent	D	C	0		
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 design/ During construction/ During operation	Contractor(s)	~	~	•	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 design/ During construction/ During operation	Contractor(s)	×	×	•	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 design/ During construction/ During operation	Contractor(s)	×	~	•	N/A	
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	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	•	•	Implemented	



EIA Reference	Recommended Environmental Protection	recommended measures &	Implementation	Imple Stage D	menta C		Relevant Legislation & Guidelines
	being minimized on-site.						



Appendix D

Impact Monitoring Schedule of the Reporting Month (BLANK)



(BLANK)



Appendix E

Event/Action Plan for Noise Exceedance



Event Action Level	Act	Action								
	ЕТ		IEC ER			Contractor				
	1.	Carry out investigation to identify the source and cause of the	1.	Review the analyzed results submitted by the ET	1.	Confirm receipt of Notification of Exceedance in writing	1.	Submit noise mitigation proposals if required, to the IEC and ER		
		complaint/ exceedance(s)	2.	Review the proposed remedial	2.	Require Contractor to propose	2.	Implement noise mitigation		
	2.	Notify IEC, ER, and Contractor and report the results of investigation		measures by the Contractor and advise the ER accordingly		remedial measures for the analysed noise problem		proposals.		
		to the Contractor, ER and the IEC	3.	Supervise the implementation of	3.	Ensure remedial measures are				
	3.	Discuss with the Contractor and		remedial measures		properly implemented				
		IEC for remedial measures required								
	4.	If the complaint is related to the Project, conduct additional monitoring for checking mitigation effectiveness and report the findings and results to the IEC, ER and the Contractor								





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



Event		Act	tion	
	ET	IEC	SO	Contractor
Limit level being exceeded by more than one consecutive 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 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant BEAM Plus Monthly Report

Appendix H – MA11 Construction Waste Reduction

		Total Quantity		Actual Qua	ntities of Inert C&D	Materials Genera	ted Monthly						
	Total Quantity Generated	Generated	Excavated Material		Not	n-excavated Mater	rial			Actual Quantities	of C&D Wastes (Generated Monthly	
Month	(al)	(Excluded Excavated Material)	Total Quantity Generated	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed in sorting facility	Broken Concrete of construction waste collected by	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
		(a2)	(b)	(c)	(d)	(e)	(f)	recycling company (g)	(h)	(1)	(i)	(k)	(1)
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Jan-2020	-	-	-	-	-	-	-	-	-	-	-	-	-
Feb-2020	-	-	-	-	-	-	-	-	-	-	-	-	-
Mar-2020	0.420	0.420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.420
Apr-2020	2.400	2.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.400
May-2020	18.470	18.470	0.000	0.000	0.000	0.000	0.000	0.000	5.900	0.000	0.000	0.000	12.570
Jun-2020	1116.110	1116.110	0.000	0.000	0.000	0.000	1081.950	0.000	0.000	0.000	0.000	0.000	34.160
Jul-2020	758.120	758.120	0.000	0.000	0.000	0.000	724.360	0.000	0.000	0.000	0.000	0.000	33.760
Aug-2020	203.150	203.150	0.000	0.000	0.000	0.000	161.080	0.000	0.000	0.000	0.000	0.000	42.070
Sep-2020	105.926	105.926	0.000	0.000	0.000	0.000	0.000	0.000	22.766	0.000	0.010	0.000	83.150
Oct-2020	46.320	46.320	0.000	0.000	0.000	0.000	0.000	0.000	7.050	0.040	0.020	0.000	39.210
Nov-2020	71.815	71.815	0.000	0.000	0.000	0.000	0.000	0.000	5.351	0.030	0.014	0.000	66.420
Dec-2020	12934.194	12934.194	0.000	0.000	12860.314	0.000	0.000	0.000	9.912	0.030	0.018	0.000	63.920
Total	15256.925	15256.925	0.000	0.000	12860.314	0.000	1967.390	0.000	50.979	0.100	0.062	0.000	378.080

Monthly Summary Waste Flow Table

Total C&D waste generated	15256.925	Tonnes	(ie: al = b+c+d+e+f+g+h+i+j+k+l)
Total C&D waste generated (excluded excavated materials)	15256.925	Tonne	(ie: a2 = c+d+e+f+g+h+i+j+k+l)
Total Recycled C&D Waste	12911.455	Tonne	(ie: a3 = c+d+g+h+i+j)
% of recycled C&D Waste for BEAM Plus MA 11	84.63%		(ie: a3/a2 x 100%)

Notes:

(1) metal, paper & plastic were collected by recycler

(2) The performance target of waste recycling are specified in the Contract.

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

(4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material.

(5) Broken concrete for recycling into aggregates

(6) Excavated materials/waste will NOT be considered as part of construction waste. It should be excluded in the calculation

(7) Disposal of inert waste to public fill or sorting facilities will <u>NOT</u> be considered as recycled waste.



Contract No. 13/WSD/17 Environmental Management Plan for Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

Appendix H – Monthly Summary Waste Flow Table

Name of Department: WSD

Contract No.: 13/WSD/17

		Actual Quan	tities of Inert C&I	D Materials Genera	ted Monthly			Actual Quantities	of C&D Wastes (Generated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Jan	11823.060	0.000	0.000	11816.130	6.930	0.000	0.000	0.000	0.000	0.000	73.960
Feb	0.000	0.000	0.000	*0.000	0.000	0.000	0.007	0.123	0.008	0.000	45.080
Mar											
Apr											
May											
Jun											
Sub-total	11823.060	0.000	0.000	11816.130	6.930	0.000	0.007	0.123	0.008	0.000	119.040
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	11823.060	0.000	0.000	11816.130	6.930	0.000	0.007	0.123	0.008	0.000	119.040

Monthly Summary Waste Flow Table for 2021 (year)

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

* The data will be updated in next month.



Appendix I

Site Inspection Proforma



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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 02	102/2021		Inspected by:	ET: Contractor:	Aviene Lat Plang Tsary	SO: RAN	1 mind kok wsd:_	NIA
Inspection Time:	35-17-0				1.			
Weather								
Condition	Sunny	Fine	Overcast	Drizzle	Rain	Storm	Hazy	
Temperature	21 °C		Humidity	High	Moderate	Low		
Wind	Calm	Light	Breeze	Strong				

Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
0.00 0.01		General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?		V		
0.02		Is ET Leader's log-book kept readily 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?		\checkmark		<u></u>
1.02	S4.8.1	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression?		\checkmark		Sweening
1.03	S4.8.1	Are fumes or smoke emitting plants or construction activities shielded by a screen?				NO frome / Smous ensitives new farewires
1.04	S4.8.1	Are wheel-washing facilities with high-pressure water jets provided at all site exits?		\checkmark		
1.05	S4.8.1	Is wheel-washing provided to all vehicles leaving the site?		1		
1.06	S4.8.1	Are road section near the site exit free from dusty material?		\checkmark		
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?		\checkmark		paved
1.08	S4.8.1	Are water spraying provided immediately prior to any loading or transfer of dusty materials?	\checkmark			pmmallel.
1.09	S4.8.1	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?	\checkmark			
1.11	S4.8.1	Is exposed earth properly treated within six months after the last construction activity on site?		\checkmark		
1.12	S4.8.1	Does the operation of plants on site free form dark smoke emission?				VARMM LALO

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

Item	EIA ref.		
No.			N/A Yes No Photo/Remarks
1.13	S4.8.1	Are vehicles travelling at speed not exceeding 15km/hr within the site?	
	S4.8.1	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	
	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?	
1.17	S4.8.1	Is open burning prohibited?	
2.00		Construction Noise (Airborne)	
2.01	S5.7	Are quiet plants adopted on site?	V NOISe IALEI
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?	Vrojsciatel Vrojsciatel Vrojsciatel Vrojsciatel
2.03	S5.7	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 from NSRs?	I D D D Monearly
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?	V' Nor
	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		Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?	
2.09		Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?	
2.10		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		Are construction noise permit(s) applied for general construction works during restricted hours?	
	\$5.7	Are valid construction noise permit(s) displayed at all vehicular exits?	
3.00		Water Quality	
		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	Is wastewater discharge from site properly treated prior to discharge?	



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

tem 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?		\checkmark		
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?		V		
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?				
8.07	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?		V		
3.09	S6.9	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?				
3.11	S6.9	Are exposed slope surface properly protected?		\checkmark		
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?		\checkmark		
3.13	S6.9	Are open stockpiles of construction materials on site covered by tarpaulin or similar				
	0 10000	fabric during construction?				
3.14	S6.9	Is runoff from wheel-washing facilities avoided?		\checkmark		
3.15	S6.9	Is oil leakage or spillage prevented?		\checkmark		а
3.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm drainage system?		Ŵ		
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 to avoid them entering the streams?		\checkmark		
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?		\checkmark		
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?				
3.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction work force?				
3.22	S6.9	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	S6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers?	\checkmark			
3.25	S6.9	Is 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

Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
3.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?				
	86.9	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 ³ closed grab, 10-11 grab per hour for 6m ³ closed grab?	,V			
	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?	\checkmark			
3.29	S6.9	Is the maximum allowed dredging rate at the seawater intake limited to 750 m ³ /day while the maximum allowed dredging rate at the submarine outfall is 3,500 m ³ /day?				2°
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)?				
3.31	S6.9	Are disposal vessels fitted with tight bottom seals in order to prevent leakage of material during transport?				
3.32	86.9	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?				
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		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		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		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	S6.9	Are all vessels have a clean ballast system?				
		Are all vessels well maintained and inspected before use to limit any potential discharges to the marine environment?				
3.40		Is any discharge of sewage/grey wastewater? Is wastewater from potentially contaminated area on working vessels should be minimized and collected?				
3.41	S6.9	Is any soil waste disposed overboard?				

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

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?	3	V		
4.02	S8.5	Is a recording system implemented to record the amount of wastes generated, recycled and				
		disposed of?		\checkmark		
4.03	S8.5	IS the Contractor registered as a chemical waste producer?				
And a second second				V		
4.04	S8.5	Are chemical waste separated from other waste and collected by a licensed chemical waste				
		collector?	\checkmark			
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?	2			
4.07	S8.5	Are all containers for chemical waste properly labelled?				
	0.0					
4.08	58.5	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?				
1.00	0.0 5					
4.09	58.5	Are incompatible chemical wastes stored in different areas?				
4.10	58 5	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?				
4.10	50.5					2
4.11	S8.5	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of	1			
		the largest container or of 20% by volume of the chemical waste stored in that area,		V		
		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?		V		
4.13	S8.5	Are sufficient general refuse disposal/collection points provided on site?				
			l			
4.14	\$8.5	is general refuse disposed of properly and regularly?				
4 15	89.5	Are appropriate measures adopted to minimize windblown litter and dust during				
4.15	2.00	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		\checkmark		
4.16	S8 5	Are individual collectors for aluminum cans, plastic bottles and packaging material and				
		office paper provided to encourage waste segregation?				
4.17	S8.5	Are C&D wastes sorted on site?				
				\checkmark		
4.18	S8.5	Are C&D waste disposed of properly?				
				\checkmark		
4.19	S8.5	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of				
		waste?	V			
4.20	S8.5	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		V		

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

Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
	1					
4.21	S8.5	Are the construction materials stored properly to minimize the potential for damage or				
		contamination?	9 (6)	V		
4.22	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?				
				V		
5.00		Landscape and Visual		-		
5.01	S11.10	Are Is site hoarding provided?				
	& 11.11		\checkmark			
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		V			
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 &	Is excavation works carried out manually instead of machinery operation within 2.5m				
	11.11	vicinity of any preserved trees?	\checkmark			
5.07	S11.10 &	Are the retained and transplanted tree(s) properly protected and in good conditions?				
	11.11		\checkmark			
5.08		Are surgery works carried out for damaged trees?				
	11.11		V			
6.00		Ecology				2
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?				
				V		
6.03	S9.7	Are stockpiles properly covered to avoid generating silty runoff?				
				V		
6.04	S9.7	Are construction works restricted to works area which are clearly defined?				
				V		
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		V		·
2		rock dowels adjusted during detailed design, and a setback distance from existing trees is				
0.00		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 minimum?				
6.07						
5.07		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?				
6.08		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		



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

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	V			
		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				
		other flora species of conservation interest, if found) adjacent to the proposed alignment of	V			
		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?		\checkmark		
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	\checkmark			
		tree/shrub planting?				
6.15	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding				n
		and planting of climbers and native shrub seedlings where practical upon completion of the	V			
		slope mitigation works?				
7.00		Landfill Gas Hazard	1			
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?				
7.02	S12.7	Are the gas detection equipment and precautions being used during trenching and				
		excavation as well as creation of confined spaces?	i			
7.03	S12.7	Are the training with regard to the awareness of potential hazards of working in		2		
		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				
1.01		and presented on the site throughout the works undertaken below grade?	5	[]		
		and presented on the site throughout the works undertaken below grade?	V			
7.05	S12.7	Are the all normannal marking or all all all states and the set of		No. 1991		
1.05	512.7	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	V			
		physical contact?				

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Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.			5			
7.06	S12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?	1			
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?	V			
7.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?	V			
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?	\checkmark			
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?				
	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?	1			
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		1		
8.01		Is the EM&A properly implemented in general?		\checkmark		

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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

Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Observationes, No major observations were reported on the respective day. Reminderte, The contractor was whinded to conduct regular water spraying Reduce dust emission. (General) -10 Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative NMA NIA (Name: D (Name: They Tsar (Name:Che (Name: NIA) (Name: NIA) annon 212/2021 07/02



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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 09/02/20 Inspection Time: 14-30 - 17		Inspected by:	ET: _0 Contractor: _7	hovererai	SO: <u>fay</u> IEC: <u>fay</u>	ys Kulan.	wsd:
Weather Condition Sun		Overcast	Drizzle	Rain	Storm	Hazy	
Temperature		Humidity	High	Moderate	Low	Research sectores and	
Wind Cal	m Light	Breeze	Strong				

tem	EIA ref.		N/A	Yes	No	Photo/Remarks
0.00		General 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?		N		
1.00 1.01	S4.8.1	Construction Dust Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?		\checkmark		- water spraying - surfice compacted to work dust emission
1.02	\$4.8.1	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression?		7		- inclussing of contine compared to whit this quission
1.03	\$4.8.1	Are fumes or smoke emitting plants or construction activities shielded by a screen?	\checkmark			No fume or smalling emitting plant / ounstancing animal
1.04	S4.8.1	Are wheel-washing facilities with high-pressure water jets provided at all site exits?				
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?				paved +sprage
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 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?		V		
1.12	S4.8.1	Does the operation of plants on site free form dark smoke emission?				NBWM (ALC)



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

-			Joang Itha	110000	301111000	TOTT I TOTTC
Item 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?	JA /			
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?				
1.17	S4.8.1	Is open burning prohibited?				
2.00		Construction Noise (Airborne)				
2.01	\$5.7	Are quiet plants adopted on site?				Rectangeneration
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 from NSRs?	\checkmark			& nonearly NSR
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?	V			}
2.06	S5.7	Are silencers, mufflers and enclosures provided to plants?				an a
2.07	\$5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		\checkmark		
2.08	S5.7	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?				Anno and a second a
2.09	\$5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?		1		
2.10	S5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
2.11	S5.7	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?	$\overline{\mathbf{V}}$			
2.13	S5.7	Are construction noise permit(s) applied for general construction works during restricted hours?				and the second secon
2.14	S5.7	Are valid construction noise permit(s) displayed at all vehicular exits?				
3.00		Water Quality				
3.01	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?		\checkmark		reminder (2)
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?		4		veminder (2) veminder (3)

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

	COIL	ract no. 15/ W5D/ 17 Design, build and operate rist stage of is	00000			
Item 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?		\checkmark		
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?				
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?				
3.07	S6.9	Is the drainage system properly maintained?		\checkmark		veninderty
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works				
		during rainy seasons?				
3.09	S6.9	Are exposed soil surface protected by paving as soon as possible to reduce the				
		potential of soil erosion?		~		
3.10	S6.9	Are temporary access roads protected by crushed gravel?				
3.11	S6.9	Are exposed slope surface properly protected?				<i>u</i>
				\checkmark		
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				+ sprayed
		fabric during construction?		\checkmark		with water
3.14	S6.9	Is runoff from wheel-washing facilities avoided?		\checkmark		
3.15	\$6.9	Is oil leakage or spillage prevented?				
3.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm				
		drainage system?		\checkmark		May day taka daga baga baga baga baga baga baga bag
3.17	S6.9	Are the oil interceptors/ grease traps properly maintained?		7		
				\checkmark		
3.18	S6.9	Are debris and rubbish generated on site collected, handled and disposed of properly		T		
		to avoid them entering the streams?		V.		
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?		V		
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?		IVI	n	
3.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction	A			
		work force?				
3.22	S6.9	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?	N			
3.24	S6.9	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?	T T			······································

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

Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
3.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?				
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 ³ closed grab, 10-11 grab per hour for 6m ³ 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^3/day while the maximum allowed dredging rate at the submarine outfall is 3,500 m^3/day ?				
3.30	\$6.9	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)?				
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?	1			
3.33	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?	J			
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?				
3.38	S6.9	Are all vessels have a clean ballast system?	\checkmark			
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?				



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

Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
4.00 4.01	S8.5	Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?		\checkmark		
4.02	S8.5	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?				
4.03	S8.5	IS the Contractor registered as a chemical waste producer?		\checkmark		
4.04	S8.5	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?	V			
4.05	S8.5	Are trip tickets for chemical waste disposal available for inspection?				
4.06	S8.5	Is chemical waste reused and recycled on site as far as practicable?	\checkmark			
4.07	S8.5	Are all containers for chemical waste properly labelled?		\checkmark		
4.08	S8.5	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?				
4.09	S8.5	Are incompatible chemical wastes stored in different areas?	\Box			
4.10	S8.5	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		\checkmark		
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?		\checkmark		
4.12	S8.5	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?		V		
4.13	S8.5	Are sufficient general refuse disposal/collection points provided on site?		\checkmark		
4.14	S8.5	Is general refuse disposed of properly and regularly?		V		
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?				
4.17	S8.5	Are C&D wastes sorted on site?				
4.18	S8.5	Are C&D waste disposed of properly?		\checkmark		
4.19	S8.5	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?	V			
4.20	S8.5	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		V		



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

Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
4.04	69.5	Any the sector stice materials stand encode to minimize the notatial for democe or				
4.21	S8.5	Are the construction materials stored properly to minimize the potential for damage or contamination?		\checkmark		
4.22	\$8.5	Is a dumping license obtained to deliver public fill to public filling areas?				
5.00		Landscape and Visual	enderlande April de Partier			
5.01	S11.10	Are Is site hoarding provided?				
	& 11.11		V			
5.02	S11.10 &	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				
	11.11			1		
5.03	S11.10 &	Is construction light oriented away from the sensitive receivers?				
	11.11		V			
5.04	S11.10	Is grass hydroseeding provided to slopes as soon as the completion of works?				
	& 11.11		\checkmark			
5.05	S11.10 &	Are damages to trees outside site boundary due construction works avoided?				
	11.11			V		
5.06	S11.10 &	Is excavation works carried out manually instead of machinery operation within 2.5m				
	11.11	vicinity of any preserved trees?	V			
5.07	S11.10 &	Are the retained and transplanted tree(s) properly protected and in good conditions?				
	11.11		\checkmark			
5.08	S11.10 &	Are surgery works carried out for damaged trees?				
	11.11		V			
6.00		Ecology				
6.01	\$9.7	Is site runoff properly treated to prevent any silly runoff?				
						romindercos
6.02	S9.7	Are silt trap installed and well-maintained?				
				V		
6.03	\$9.7	Are stockpiles properly covered to avoid generating silty runoff?		A		
			Ser.	\checkmark		
6.04	S9.7	Are construction works restricted to works area which are clearly defined?				
				\checkmark		
6.05	S9.7	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		\checkmark		-
115		rock dowels adjusted during detailed design, and a setback distance from existing trees is				
		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				
		interest and minimize the impact to the existing vegetation as far as practicable? Are the	\checkmark			
		alignment of flexible barriers positioned at mininmum 1.5 m in a radius away from these				
		individuals?				
6.08	S9.7	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				

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

Item No.	EIA ref.		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	\$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 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	\$9.7	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?		J		
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	\$9.7	Is any damage and disturbance avoided, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal?				
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?				
6.15	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works?				
7.00 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?	d			
7.03	\$12.7	Are the training with regard to the awareness of potential hazards of working in confined spaces provided from the Contractor to the workers?	V			
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?	4			
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?	J			

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

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, chambers and any confined spaces?	Z			
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?	i/			
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			
7.12	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?	Ø			
8.00		Overall		1		
8.01		Is the EM&A properly implemented in general?		V		

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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

Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: observation (S) Renninderus, (1) General wate materials were observed in the gully near ActionPF Avea. The contractor was reminded to Enspect the gully ounditions regularly. (2) teating of untreased nascewarr within the construction site was oriented overflow The contractor should be remainded to ensure no unmared natur should be disinerged at combined shall there. **Signatures:** Supervising Officer's WSD's IEC's Contractor's ET Representative Representative Representative Representative Representative NIA (Name: cherlene (Name: Long (Name: N/A) (Name; (Name: 1 08/02 a/2/201



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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 18/			Inspected by:	ET: Chr Contractor: Br	Mene Lai	30.	. Poon M	WSD:	NIA
Inspection Time: 13	30-16=10	•		Contraction	1				
Weather									
Condition	Sunny	Fine	Overcast	Drizzle	Rain	Storm	Hazy		
Temperature	⊇∕] ₀C	,	Humidity	High	Moderate	Low			
Wind	Calm	Light	Breeze	Strong					

Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
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?		\checkmark		
0.02		Is ET Leader's log-book kept readily available for inspections?		./		
1.00		Construction Dust				scoraus of with work
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?		\checkmark		esprayed within other Reconnected
1.02	S4.8.1	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression?		\checkmark		
1.03	S4.8.1	Are fumes or smoke emitting plants or construction activities shielded by a screen?				No Rume/ smole conteray
1.04	S4.8.1	Are wheel-washing facilities with high-pressure water jets provided at all site exits?		\checkmark		
1.05	S4.8.1	Is wheel-washing provided to all vehicles leaving the site?		V		
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?				pdived + water
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 leaving the site?	\checkmark			observed
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			
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?		\checkmark		INRMMIABEL
	1	1				

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

-			cung nura		Jannaer	
Item 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	S4.8.1	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?		J		
1.17	S4.8.1	Is open burning prohibited?		V		
2.00		Construction Noise (Airborne)				
	S5.7	Are quiet plants adopted on site?		V		VANISCAMEN
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		\checkmark		V Regular Morection
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?	Ń			L MO ABR
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?				5
2.06	S5.7	Are silencers, mufflers and enclosures provided to plants?	\sim			
2.07	S5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		\checkmark		
2.08	S5.7	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?		\checkmark		
2.09	85.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?		\checkmark		
2.10		Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	\checkmark			
2.11		Are valid noise emission label(s) affixed to all air compressors operating on site?	1			
	\$5.7	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?		1		
2.14	S5.7	Are valid construction noise permit(s) displayed at all vehicular exits?		\checkmark		
3.00		Water Quality				
3.01	S6.9	Is effluent discharge license obtained for wastewater discharge from site?		\checkmark		
3.02	S6.9	Is effluent discharged according to the effluent discharge license?		\checkmark		
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?		\checkmark		

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

Item	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?		1		
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?		V		
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?				
3.07	S6.9	Is the drainage system properly maintained?		1		
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works				
		during rainy seasons?		V		
3.09	S6.9	Are exposed soil surface protected by paving as soon as possible to reduce the				
		potential of soil erosion?				
3.10	S6.9	Are temporary access roads protected by crushed gravel?		2		
3.11	S6.9	Are exposed slope surface properly protected?				,
3.12	\$6.9	Is trench excavation avoided in the wet season as far as practicable, or if necessary,				
0.12	50.7	backfilled in short sections after excavation?		2		
3.13	S6.9	Are open stockpiles of construction materials on site covered by tarpaulin or similar				
		fabric during construction?		J		
3.14	S6.9	Is runoff from wheel-washing facilities avoided?				
		, , , , , , , , , , , , , , , , , , ,		\checkmark		
3.15	S6.9	Is oil leakage or spillage prevented?		V		V rivip trang.
3.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm				
		drainage system?		\checkmark		
3.17	S6.9	Are the oil interceptors/ grease traps properly maintained?		1		
3.18	S6.9	Are debris and rubbish generated on site collected, handled and disposed of properly				
		to avoid them entering the streams?		1		
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?		V		
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				
		work force?		1		
3.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided				
		by the licensed contractors?		1		
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?	V			
3.25	S6.9	Is 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

Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
3.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?	Ń			
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 ³ closed grab, 10-11 grab per hour for 6m ³ 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?				7
3.29	S6.9	Is the maximum allowed dredging rate at the seawater intake limited to 750 m ³ /day while the maximum allowed dredging rate at the submarine outfall is 3,500 m ³ /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)?				
3.31	S6.9	Are disposal vessels fitted with tight bottom seals in order to prevent leakage of material during transport?	1			
3.32		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?	×			
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?				8
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?				r
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?				
3.38	S6.9	Are all vessels have a clean ballast system?				
	S6.9	Are all vessels well maintained and inspected before use to limit any potential discharges to the marine environment?				
3.40		Is any discharge of sewage/grey wastewater? Is wastewater from potentially contaminated area on working vessels should be minimized and collected?				
3.41	S6.9	Is any soil waste disposed overboard?	5			

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

ltem No.	EIA ref.		N/A	Yes	No	Photo/Remarks
4.00		Waste Management	Contra Second Second			
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?		\checkmark		
4.02	S8.5	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?		\checkmark		
4.03	S8.5	IS the Contractor registered as a chemical waste producer?		\checkmark		
4.04	S8.5	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?				
4.05	S8.5	Are trip tickets for chemical waste disposal available for inspection?				
4.06	S8.5	Is chemical waste reused and recycled on site as far as practicable?	\checkmark			
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 labelled?				
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 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, sump pits, and oil interceptors?		1		
4.13	S8.5	Are sufficient general refuse disposal/collection points provided on site?		\checkmark		
4.14	S8.5	Is general refuse disposed of properly and regularly?				vehainder (1)
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?				
4.17	S8.5	Are C&D wastes sorted on site?				
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?				
4.20	S8.5	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?				

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

Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
<u> </u>	1				1.4	
4.21	S8.5	Are the construction materials stored properly to minimize the potential for damage or				
		contamination?		V		
4.22	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?				
		a source provide the provide the top provide the state of		1		с.
5.00		Landscape and Visual				
5.01		Are Is site hoarding provided?				
	& 11.11		V			
5.02	S11.10 &	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				
	11.11			V		
5.03	S11.10 &	Is construction light oriented away from the sensitive receivers?				
22	11.11		\checkmark	Lah		
5.04	S11.10	Is grass hydroseeding provided to slopes as soon as the completion of works?				
	& 11.11		- Ja			
5.05	S11.10 &	Are damages to trees outside site boundary due construction works avoided?				
	11.11			\checkmark		
5.06	S11 10 &	Is 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?				
5.07	11.11 a	Are the retained and transplanted tree(s) property protected and in good conditions?		3		
5.00						
5.08		Are surgery works carried out for damaged trees?				
	11.11					
6.00		Ecology				
6.01	S9.7	Is site runoff properly treated to prevent any silly runoff?		\square		8
				3		
6.02	S9.7	Are silt trap installed and well-maintained?		1		
				V		
6.03	S9.7	Are stockpiles properly covered to avoid generating silty runoff?				
				V		
6.04	S9.7	Are construction works restricted to works area which are clearly defined?				
				V		
6.05	S9.7	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		1		
		rock dowels adjusted during detailed design, and a setback distance from existing trees is				
		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?	V			
6.07	S9.7	Are the alignment of flexible barriers optimized to preserve all species of conservation	K			
		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	S9.7	At the detailed design stage prior to the commencement of the slope mitigation works, is		<u> </u>		
		vegetation survey carried out at the slope mitigation areas within the Clear Water Bay				

18/02



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

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?				w.
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	V			
		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				·
		other flora species of conservation interest, if found) adjacent to the proposed alignment of	V			
		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?	\checkmark			
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				
0.14	39.7	and that damage does not occur to surrounding areas?		V		2
0.45	G0 7	-				
6.15	\$9.7	Is any damage and disturbance avoided, particularly those caused by filling and illegal				
		dumping, to the surrounding habitats through proper management of waste disposal?				
6.16	S9.7	Are temporarily affected areas reinstated, particularly the habitats of plantation and				8
		shrubland-grassland immediately after completion of construction works, through on-site				
		tree/shrub planting?				
6.15	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding				
		and planting of climbers and native shrub seedlings where practical upon completion of the	V			
		slope mitigation works?		200000		
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?				
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	L		
7.03	S12.7	Are the training with regard to the awareness of potential hazards of working in				
1.00	512.7	confined spaces provided from the Contractor to the workers?		[]		
		contined spaces provided from the contractor to the workers:	V			
7.04	010.7					
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?	V			
7.05	S12.7	Are the all personnel working on site and all visitor made aware of the possibility of	1			
		ignition of gas, the possible presence of contaminated water and the need to avoid				
		physical contact?	L]			

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

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, 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?	Ń			
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?	V			
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?	V			
8.00 8.01		Overall Is the EM&A properly implemented in general?				

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

Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Observation (S) No major observations were reported on the respective day. Reminder(s) (1) Housekeeping was reminded Chenerals Signatures: ET Contractors Supervising Officer's IEC's WSD's Representative Representative Representativ Representative Representative NGA NIA (Name: cheriene in: (Naple: Bran Kan) (Name: Y.K. pown (Name: N/M)) (Name: N/A)

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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

inspection Buter	102/2020		Inspected by:	ET: Contractor:	arlene len	SO: Rayn IEC: Lon	nard kak skovan	WSD: K.K. WING
Inspection Time:	50 - 12 50			2	. ,			
Weather			,					
Condition	Sunny	Fine	Overcast	Drizzle	Rain	Storm	Hazy	
Temperature	21 ° C	/	Humidity	High .	Moderate	Low		
Wind	Calm	Light	Breeze	Strong				

Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
0.00		General				
0.01		Is the current Environmental Permit displayed conspicuously at all vehicle site			\square	
		entrances/exits for public's information at any time?		V		
0.02		Is ET Leader's log-book kept readily available for inspections?				
1.00		Construction Dust				2).5
1.01	S4.8.1	Are dusty materials, such as excavated materials, building debris and construction		1		Obs Benerowser (1)
		materials, and exposed earth surface properly covered to prevent dust emission?		<u>v</u>		compartion
1.02	S4.8.1	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to		1		tar pauli a sheet.
		dusty construction works for dust suppression?			\square	OLADIADA P
5				LV.		Soveening
1.03	S4.8.1	Are fumes or smoke emitting plants or construction activities shielded by a screen?				No funer
		9		\square	\square	smole aniteing
						Partition
1.04	S4.8.1	Are wheel-washing facilities with high-pressure water jets provided at all site exits?				
				\mathbb{V}		
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?				
1.00	54.0.1			V		
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?				paved
1.08	S4.8.1	Are water spraying provided immediately prior to any loading or transfer of dusty				Ar orthonics
		materials?	V			experied, during
1.09	S4.8.1	Are covers provided to all dump trucks carrying dusty materials when entering and				wet
		leaving the site?				No during trailes
1.10	S4.8.1	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of				2
		boulders, poles, pillars sprayed with water to maintain the entire surface wet?	v			
1.11	S4.8.1	Is exposed earth properly treated within six months after the last construction activity		./		10
		on site?		V		
1.12	S4.8.1	Does the operation of plants on site free form dark smoke emission?		1X		16 MMM Faber
×					L]	N WW/I III MOREL

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

Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.				100	110	Thoto/Techarks
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?		\checkmark		obs Up
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		
1.17	S4.8.1	Is open burning prohibited?			\square	
2.00		Construction Noise (Airborne)				
2.01	S5.7	Are quiet plants adopted on site?		1		Unose long
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of				
		excessive niose?		\checkmark		V Regular inspectation
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				2
		from NSRs?				4 nonearly
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?	\checkmark			Jusk
2.06	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		Are purposely-built site hoarding construction with appropriate materials provided				
		along the site boundary?		\checkmark		
2.09		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	S5.7	Are valid noise emission label(s) affixed to all air compressors operating on site?	\checkmark			
2.12	S5.7	Are all construction noise permit(s) applied for percussive piling work?	V			
2.13	S5.7	Are construction noise permit(s) applied for general construction works during				
		restricted hours?				
2.14	\$5.7	Are valid construction noise permit(s) displayed at all vehicular exits?				
3.00		Water Quality				
		Is effluent discharge license obtained for wastewater discharge from site?		V		
3.02	\$6.9	Is effluent discharged according to the effluent discharge license?		\checkmark		
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?		V		

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

tem	EIA ref.		N/A	Yes	No	Photo/Remarks
10.	0.6.5					
3.04	S6.9	Are perimeter channels provided to intercept storm runoff from outside the site?		\checkmark		
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?		V		
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?		V		
3.07	S6.9	Is the drainage system properly maintained?				reminder (1)
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works				
		during rainy seasons?		V		
3.09	S6.9	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?				
3.11	S6.9	Are exposed slope surface properly protected?				N
		no orboon orbe owned broker?				Compution
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?		\sim		
3.13	S6.9	Are open stockpiles of construction materials on site covered by tarpaulin or similar				
		fabric during construction?		\checkmark		
3.14	S6.9	Is runoff from wheel-washing facilities avoided?				
				V		
3.15	S6.9	Is oil leakage or spillage prevented?		\checkmark		V durip tray
3.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm				
		drainage system?		\checkmark		
3.17	S6.9	Are the oil interceptors/ grease traps properly maintained?	V			
3.18	S6.9	Are debris and rubbish generated on site collected, handled and disposed of properly		Γ ή		
		to avoid them entering the streams?		V		
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?		V		
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?		V		
3.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction		/		
		work force?		V		
3.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided				
		by the licensed contractors?		V		
3.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?	\checkmark			
3.24	S6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of				
		suspended solids to nearby sensitive receivers?				
	S6.9	Is 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

Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
3.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?				
0.07			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 $3m^3$ closed				
2.00	06.0	grab, 10-11 grab per hour for 6m ³ closed grab?				
3.28	50.9	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 ³ /day				
0.20	50.9	while the maximum allowed dredging rate at the seawater intake limited to 750 m ² /day while the maximum allowed dredging rate at the submarine outfall is 3,500 m ³ /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	V			
		(DASO)?				
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?				
3.33	S6.9	Are excess materials cleaned from decks and exposed fittings before the vessel is				
0.04	0.6.0	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?		I1		
3.35	\$6.0	When the dredged material has been unloaded at the disposal areas, is any material				
0.00	50.7	accumulated on the deck or other exposed parts of the vessel removed and placed in	V			
		the hold or a hopper?				
3.36		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	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	J			
		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	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		Is any discharge of sewage/grey wastewater? Is wastewater from potentially				
		contaminated area on working vessels should be minimized and collected?				
3.41	\$6.9	Is any soil waste disposed overboard?		\square		
			<u> </u>			

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

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?		V		
4.02	S8.5	Is a recording system implemented to record the amount of wastes generated, recycled and				
		disposed of?		\checkmark		-
4.03	S8.5	IS the Contractor registered as a chemical waste producer?				
				\checkmark		
4.04	S8.5	Are chemical waste separated from other waste and collected by a licensed chemical waste				
		collector?	V			
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?		\square		
4.07	S8.5	Are all containers for chemical waste properly labelled?				
4.07		are an containers for enclinear waste property facence?		\checkmark		
4.08	S8.5	Is chemical waste storage area used solely for storage of chemical waste and properly				
		labelled?		1		
4.09	S8.5	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?				
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		
1.10	00.5	whichever is the greatest, provide?				
4.12	58.5	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?				sensinder (1)
4.13	585	Are sufficient general refuse disposal/collection points provided on site?				,
4.15	36.5	Are sufficient general feruse disposal/confection points provided on site?		\checkmark		
4.14	S8.5	Is general refuse disposed of properly and regularly?				
		0		V		
4.15	S8.5	Are appropriate measures adopted to minimize windblown litter and dust during		<u> </u>		
		transportation of waste?		\checkmark		
4.16	S8.5	Are individual collectors for aluminum cans, plastic bottles and packaging material and				
		office paper provided to encourage waste segregation?		\checkmark		
4.17	S8.5	Are C&D wastes sorted on site?				
				V		
4.18	S8.5	Are C&D waste disposed of properly?				
				1		
4.19		Are unused C&D materials or chemicals recycled or reused to reduce the quantity of				
4.00		waste?	Ľ			
4.20	58.5	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?			\square	
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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

Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.			8			
	1		Particular in the			
4.21	S8.5	Are the construction materials stored properly to minimize the potential for damage or				
		contamination?		V		
4.22	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?			<u>,</u>	
				\checkmark		
5.00		Landscape and Visual				
20. SSA	S11.10	Are Is site hoarding provided?				
	& 11.11		V			
5.02	COLOR OF PERSONS OF	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				
	11.11			\checkmark		
5.03	S11 10 &	Is construction light oriented away from the sensitive receivers?		L		
0.00	11.11	as construction right oriented away from the sensitive receivers?	\checkmark			
5.04		Is grass hydroseeding provided to slopes as soon as the completion of works?				
0.04	& 11.11	as grass nytrosecting provided to slopes as soon as the completion of works?		V		
5.05		Are damages to trees outside site boundary due construction works avoided?		<u> </u>		
0.00	11.11 a	Are damages to frees outside site boundary due construction works avoided?	c			
5.06				V		
5.06	12. 17. 15. 17.	Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	V			
5.07	-					
5.07	11.11 æ	Are the retained and transplanted tree(s) properly protected and in good conditions?				
5.00						
5.08		Are surgery works carried out for damaged trees?				
	11.11	-				
6.00		Ecology				
6.01	\$9.7	Is site runoff properly treated to prevent any silly runoff?				
			•	V		
6.02	S9.7	Are silt trap installed and well-maintained?				
				V		
6.03	S9.7	Are stockpiles properly covered to avoid generating silty runoff?				
				V		
6.04	S9.7	Are construction works restricted to works area which are clearly defined?				
				V		
6.05	S9.7	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		
		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				
		minimum?				
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	V			
		alignment of flexible barriers positioned at minimum 1.5 m in a radius away from these				
6.00		individuals?			10	
6.08		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		V		

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

Item	EIA ref.	ĸ	N/A	Yes	No	Photo/Remarks
No.						
		Country Park to assess the condition and identify the location of each individual of				
4		Marsdenia lachnostoma and other flora species of conservation interest that may be directly				
	a	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	\square			
		other flora species of conservation interest, if found) adjacent to the proposed alignment of				
		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?	V			
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?	V			
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?		V		romineler (3)
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?	18	Ń		
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	\checkmark			
		tree/shrub planting?				
6.15	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding				
		and planting of climbers and native shrub seedlings where practical upon completion of the	\checkmark			
		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,	\Box			
		asphyxiation of works and toxicity effects during all works?	V			3
7.02	S12.7	Are the gas detection equipment and precautions being used during trenching and				
1.02	512.7	excavation as well as creation of confined spaces?	r h			
		excavation as wen as creation of commed 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?	V			
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?				
			Laure and the second se			
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?	V			

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

ltem No.	EIA ref.		N/A	Yes	No	Photo/Remarks
7.06	S12.7	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?	V			
7.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?	1			
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?				
	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?				
	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?	1			
	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?				
8.00 8.01		Overall Is the EM&A properly implemented in general?		1.		

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, 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

Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: () Projer covering of stored comment or publicated full ash (720 bags) on will observation is, Should be implemented to chinit dust envision. at combined shelf thee. & KN 132 (1) Howelvering new verninded at drainage channel near ActionPP mea.n Reminder (s) (e) The Main Contractor shall pay atlention to not place construction marinaly may the construction boundary at Actiograph Area to prevent domege to trues neerby. Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representati Representative Representative Representative Op (Name: Rac (Name: Lows) (Name: KKWK (Name: Kan Kan) (Name: chelene) ras Kivan 2412/204 24102.

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Appendix J

Complaint Log



Statistical Summary of Environmental Complaints

Reporting Period	Environment	al Complaint Statistics	
	Frequency	Cumulative	Complaint Nature
01 Feb 2021 -			
28 Feb 2021	0	0	N/A

Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics				
	Frequency	Cumulative	Details		
01 Feb 2021 -					
28 Feb 2021	0	0	N/A		

Statistical Summary of Environmental Prosecution

Reporting Period	Environmenta	Prosecution Statistics	
	Frequency	Cumulative	Details
01 Feb 2021 -			
28 Feb 2021	0	0	N/A



Appendix K

Impact Monitoring Schedule of Next Reporting Month (BLANK)



(BLANK)