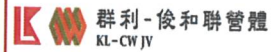


Contract No:

DC/2020/02

Project Title:

**Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works**






Construction Noise Mitigation Plan

Document No: KL-CW JV/NMP

Revision: 20

Date: 28 July 2022

Prepared by:	Approved by:
 Shirley Kong Environmental Officer	  Charles Tse Site Agent

Revision History

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01	25 May 2021	Whole NMP	Second Submission	Ken Cheung
02	15 June 2021	Whole NMP	Third Submission	Ken Cheung
03	16 June 2021	Whole NMP	Fourth Submission	Ken Cheung
04	18 June 2021	Whole NMP	Fifth Submission	Ken Cheung
05	21 June 2021	Whole NMP	Sixth Submission	Ken Cheung
06	11 Nov 2021	Whole NMP	Seventh Submission	Shirley Kong
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08	06 Dec 2021	Whole NMP	Ninth Submission	Shirley Kong
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11	22 Jan 2022	Whole NMP	Twelve Submission	Shirley Kong
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16	11 Jul 2022	Whole NMP	Seventeenth Submission	Shirley Kong
17	15 Jul 2022	Table 7.1 & Appendix G	Eighteenth Submission	Shirley Kong
18	19 Jul 2022	Appendix G	Nineteenth Submission	Shirley Kong
19	21 Jul 2022	Appendix G	Twentieth Submission	Shirley Kong
20	28 Jul 2022	Figure 6.1	Twenty-first Submission	Shirley Kong

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1 INTRODUCTION

Pursuant to the Environmental Permit No.: EP-538/2017, Part C, Condition 2.15, Construction Noise Mitigation Plan (CNMP) is required to be prepared by Kwan Lee – Chun Wo Joint Venture's (KL-CW JV) for the Contract No. DC/2020/02: Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works to detail the specific types and locations of noise mitigation measures to be adopted. The mitigation measures specified in this CNMP will be implemented on site under this contract to reduce and/or minimise the nuisance to the publics and nearest Noise Sensitive Receivers (NSR). The master layout plan is showed in *Appendix A*.

2 SCOPE OF WORKS

The works to be executed under this contract involves construction of

- Construction of a secondary sewage treatment works (STW) at San Shek Wan in South Lantau;
- Construction of a sewage pumping station (SPS) at Pui O;
- Construction of about 1.4 kilometres (km) of submarine outfall with a diameter of 350 millimetres (mm) for the disposal of treated effluent from the STW at San Shek Wan;
- Construction of about 4.1 km of gravity sewers with diameters from 150 mm to 375 mm along South Lantau Road and Chi Ma Wan Road and at Pui O Lo Uk;
- Construction of about 1.2 km of twin rising mains with a diameter of 200 mm along South Lantau Road and Chi Ma Wan Road;
- Ancillary works

3 PURPOSE OF NOISE MITIGATION PLAN

Under EP-538/2017, Part C, Clause 2.15, a construction noise mitigation plan should be prepared and submitted to EPD no later than 3 months before the commencement of construction of the Project. In accordance with the approved Environmental Impact Assessment (EIA) Report (Register No. AEIAR-210/2017) and Annex A of the EM&A Manual for the project, the noise mitigation measures are proposed to alleviate the noise impact due to the project. The plan is to demonstrate the construction noise performance requirements set out in the approved EIA Report will not be exceeded with the mitigation measures in place.

4 ENVIRONMENTAL LEGISLATION, POLICIES, PLANS, STANDARDS AND CRITERIA

Environmental Impact Assessment Ordinance (EIAO) and Noise Control Ordinance (NCO) provide the statutory framework for noise control. The following regulations, but not limited to, should be followed.

- Noise Control (Construction Work) Regulation
- Noise Control (Construction Work Designated Areas) Notice
- Noise Control (Hand Held Percussive Breakers) Regulations
- Noise Control (Air Compressors) Regulations

Pursuant to Technical Memorandum on EIA Process, noise standard for daytime construction activities as list in Table 4.1.

Table 4.1 - Noise Standard for Daytime Construction Activities

Uses	Noise Standards, Leq (30 mins) dB(A)	
	0700 to 1900 hours on any day not being a Sunday or general holiday	1900 to 0700 hours or any time on Sundays or general holiday
All domestic premises including temporary housing accommodation	75	The criteria laid down in the relevant technical memoranda under the Noise Control Ordinance for designated areas and construction works other than percussive piling may be used for planning purpose. A Construction Noise Permit (CNP) shall be required for the carrying out of the construction work during the period.
Hotels and hostels	75	
Educational institutions including kindergartens, nurseries and all others where unaided voice communication is required	70 65 (During examinations)	

5 NOISE SENSITIVE RECEIVERS AND ANTICIPATED CONSTRUCTION NOISE IMPACTS

5.1 NOISE SENSITIVE RECEIVERS (NSRs)

The study area covered an area of 300m from the boundary of the project site. The concerned Noise Sensitive Receivers (NSRs) as identified in the approved EIA Report under Contract No. DC/2020/02 are listed in the following Table 5.1 and showed in *Appendix B*.

Table 5.1 – Representative Noise Sensitive Receivers (NSRs) within the study area

Representative NSR	Name of Premises	Use	Noise Limit in L_{eq} (30 min), dB(A)
N12a	Lo Uk Tsuen	Residential	75
N12b	Lo Uk Tsuen	Residential	75
N12c	Lo Uk Tsuen	Residential	75
N13	Pui O San Wai Tsuen	Residential	75
N14	South Lantau Community Centre	Community	75
N15a	Pui O Lo Wai Tsuen	Residential	75
N15b	Pui O Lo Wai Tsuen	Residential	75
N16a	Residences at Ham Tin	Residential	75
N16b	Residences at Ham	Residential	75

Representative NSR	Name of Premises	Use	Noise Limit in L_{eq} (30 min), dB(A)
	Tin		
N17	Bui O Public School	School	(normal periods) 70 dB(A) (examination periods) 65 dB(A)

5.2 ANTICIPATED CONSTRUCTION NOISE SOURCES

Based on the approved EIA Report, the Project includes the construction of trunk sewers/rising mains, village sewers, sewage pumping stations (SPS), and sewage treatment works (STW) and submarine outfall at San Shek Wan. The major construction work will include site clearance, land excavation, backfilling, facilities installation works and marine dredging. Potential sources of noise impacts during the construction phase of the Project will mainly arise from powered mechanical equipment (PME) operating at the land-based construction work sites. No NSRs were identified within 300m from the marine-based works area and the potential construction noise impacts are expected to be minimal.

- Construction of a secondary sewage treatment works (STW) at San Shek Wan in South Lantau;
- Construction of a sewage pumping station (SPS) at Pui O;
- Construction of about 1.4 kilometres (km) of submarine outfall with a diameter of 350 millimetres (mm) for the disposal of treated effluent from the STW at San Shek Wan;
- Construction of about 4.1 km of gravity sewers with diameters from 150 mm to 375 mm along South Lantau Road and Chi Ma Wan Road and at Pui O Lo Uk;
- Construction of about 1.2 km of twin rising mains with a diameter of 200 mm along South Lantau Road and Chi Ma Wan Road;
- Ancillary works

6 EVALUATION OF NOISE REDUCTION PERFORMANCE REQUIREMENT DUE TO CONSTRUCTION ACTIVITY

In order to reduce the excessive noise impacts at the affected NSR during normal daytime working hours, mitigation measures such as implementing quiet powered mechanical equipment, movable noise barriers and good site practices are recommended. The mitigation measures will be adopted for all construction works to respond accordingly to the result of noise monitoring to prevent exceedance of noise limit level.

- Good construction site practice shall be maintained.
- Quiet Powered Mechanical Equipment (PME) shall be used.
- Movable noise barriers shall be adopted.
- Noise insulation sheet shall be used for PME.
- Scheduling of PME/construction activities: some construction activities will be operated in sequence rather than simultaneously within the respective works areas.
- Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase.

-
- Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase.
 - Mobile plant, if any, shall be sited as far away from Noise Sensitive Receivers (NSRs) as possible.
 - 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.
 - Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.
 - Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.
 - Manual working will be required to replace operation of large PMEs such as such as excavators, lorries and concrete lorry mixers when construction of village sewers carried out in narrow village alleys.
 - Quieter equipment shall be chosen and noise levels specification shall be included when ordering new plant items.
 - Locate fixed plant items or noise emission points away from the NSRs as far as practicable.
 - Locate noisy machines in completely enclosed plant rooms or buildings with suitable and practicable noise remedies.
 - Develop and implement a regularly scheduled plant maintenance programme so that plant items are properly operated and serviced. The programme should be implemented by properly trained personnel.
 - The effectiveness of on-site control measures could also be evaluated through the regular site audits.

Tentative construction works programme is enclosed in *Appendix E* for reference.

6.1 DETAILED DESCRIPTION OF NOISE MITIGATION MEASURES

6.1.1 Use of QPME

The Quality Powered Mechanical Equipment (QPME) system was first developed in 2005 as an Administrative System by the Environmental Protection Department (EPD) to benchmark construction equipment items that are new, notably quieter, more environmentally friendly and efficient by QPME Labels. The QPME system is to reflect the state-of-the-art construction equipment, to facilitate the Construction Noise Permit (CNP) application process.

Availability of QPME in the market will be sourced out based on EPD QPME's Inventory. Types of construction equipment included in the QPME system subject to the availability of the market. Also, the major powered mechanical equipment (PME) to be used on the site will be considered with reference.

Fifteen types of common use construction equipment, including (1) tracked bulldozer; (2) wheeled bulldozer; (3) tracked loader; (4) wheeled loader; (5) excavator; (6) generator; (7) mobile crane; (8) vibratory roller; (9) road roller; (10) asphalt paver; (11) vibratory compactor; (12) power rammer; (13) hand held percussive breaker; (14) air compressor; and, (15) concrete crusher.

Where a QPME is used, the plant should be registered with EPD, and the label issued by EPD from such registration shall be affixed on the plant at all times and kept legible. The JV will also

establish a register to record all QPME used on the Site. The sample QPME inventory is showed in **Appendix D**.

6.1.2 Scheduling of PME/Construction Activities

To further alleviate the construction noise impacts, some construction activities will be operated in sequence rather than simultaneously within the respective works areas. The above mitigation measures shall be practicable in completing the works within the scheduled timeframe.

6.1.3 Use of Acoustic Barrier

Acoustic barrier will be adopted as far as possible to reduce the noise to prevent exceedance of noise limit level. The major PME to be used will apply the acoustic barrier as showed in Table 6.1. The sample catalogue and specification of the noise insulation materials is shown in **Appendix C – Photo 4 to 10**.

A. Partial Enclosure

It is anticipated that partial enclosure comprised of minimum 50mm thick sound absorbing lining and 10mm thick plywood (or 1mm thick steel sheet) enclosing the PME would be provided where appropriate. The PME will be totally screened when viewed from the NSR and a negative correction of 5-10dB(A) noise reduction would be achieved. A sample photo for the proposed partial enclosure is shown **Appendix C – Photo 1**.

B. Movable Noise Barrier

Generally, a movable noise barrier comprised of minimum 50mm thick sound absorbing lining and 10mm thick plywood (or 1mm thick steel) backing with a cantilevered upper portion located between the PME and NSRs will achieve a negative correction of 5-10 dB(A) noise reduction.

The use of noise barriers will be an effective means to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. The use of movable barrier for certain PME could generally provide a 5dB(A) reduction for movable PME and 10dB(A) for stationary PME. Movable noise barriers of 3m in height with skid footing will 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 will be at least five times greater than its height. It is anticipated that the major noise source of all PMEs, including movable and large PMEs, will be located at a level lower than the top of the proposed movable barriers. A sample photo for the movable noise barrier is shown in **Appendix C – Photo 2**.

C. Noise Insulating Sheet

To alleviate the construction noise emitted by noise emission source of the PME, it is anticipated that noise insulating sheet would be used to insulate the noise emission source of the PME and noise sensitive receiver to reduce noise. Working Area or the PME shall be fully screened and invisible to NSR by noise insulation sheet to achieve a negative correction of 5-10 dB(A) noise reduction. A sample catalogue, specification and test result of the noise insulation sheet is shown in **Appendix C – Photo 3 - 6**. Also, it could be deployed such that there would be no opening or gaps on the joints. The PME which will be shielded by noise insulating sheet is listed in Table 6.1.

Table 6.1 PME to be shielded by noise insulating sheet

Activities	Plant	TM Ref. / Other Ref. [1]	No. of PME	On-time %	Type of Noise Control [2]	Noise reduction, dB(A)	Unit SWL, dB(A)	SWL, dB(A)
I) Village Sewers (for both accessible and not accessible work area)								
a) Saw cutting pavement	Hand-held circular saw	BS C4 73	1	70%	Fabric	-10	112	100
b) Breaking up of pavement	Hand-held breaker	CNP 024	1	70%	Fabric	-10	108	96
c) Excavation	Mini excavator	Other PME List	1	70%	Fabric	-5	94	87
d) Backfilling	Vibrator compactor	CNP 050	1	70%	Fabric	-5	105	98
II) Trunk Sewers/ Rising Mains								
a) Saw cutting pavement	Hand-held circular saw	BS C4 73	1	70%	Fabric	-10	112	100
b) Breaking up of pavement	Hydraulic breaker	BS D8 12	1	70%	Fabric	-5	106	99
c) Excavation / Shoring	Excavator	BS C2 21	1	70%	Fabric	-5	99	92
	Sheet piling machine	BS D4 13	1	70%	Fabric	-10	106	94
d) Pipe laying	Lorry, with crane/grab, 5.5 tonne < gross vehicle weight \leq 38 tonne	Other PME List	1	70%	Fabric	-5	105	98
e) Backfilling	Lorry, with crane/grab, 5.5 tonne < gross vehicle weight \leq 38 tonne	Other PME List	1	70%	Fabric	-5	105	98
	Vibratory compactor	CNP 050	1	70%	Fabric	-5	105	98
f) Reinstatement (asphalt)	Asphalt paver	BS D8 24	1	70%	Fabric	-5	101	94
	Road roller	BS D8 30	1	100%	Fabric	-5	101	96
III) Construction of Sewage Pumping Station								
a) Ground investigation	Grout Pump	Other PME List	1	70%	Fabric	-10	105	93
	Drill rig, rotary type (diesel)	Other PME List	1	70%	Fabric	-10	110	98
b) Site Clearance	Excavator	BS C2 21	1	70%	Fabric	-5	99	92
	Dump truck	BS D9 39	1	70%	Fabric	-5	103	96

Activities	Plant	TM Ref. / Other Ref. [1]	No. of PME	On-time %	Type of Noise Control [2]	Noise reduction, dB(A)	Unit SWL, dB(A)	SWL, dB(A)
c) Site formation Excavation / Shoring	Excavator	BS C2 21	1	70%	Fabric	-5	99	92
	Dump truck	BS D9 39	1	50%	Fabric	-5	103	95
	Power rammer	CNP 169	1	50%	Fabric	-5	108	100
	Sheet piling machine	BS D4 13	1	70%	Fabric	-10	106	94
d) Construction of sub-structure	Mobile crane	BS D7 114	1	70%	Fabric	-5	101	94
e) Backfilling	Lorry, with crane/grab, 5.5 tonne < gross vehicle weight \leq 38 tonne	Other PME List	1	70%	Fabric	-5	105	98
	Power rammer	CNP 169	1	50%	Fabric	-5	108	100
f) Construction of superstructure	Mobile crane	BS D7 114	1	70%	Fabric	-5	101	94
g) E&M installations	Mobile crane	BS D7 114	1	70%	Fabric	-5	101	94
	Lorry, with crane/grab, 5.5 tonne < gross vehicle weight \leq 38 tonne	Other PME List	1	70%	Fabric	-5	105	98
h) Architectural and landscaping work	Mobile crane	BS D7 114	1	70%	Fabric	-5	101	94
	Lorry, with crane/grab, 5.5 tonne < gross vehicle weight \leq 38 tonne	Other PME List	1	70%	Fabric	-5	105	98
IV) Construction of Sewage Treatment Works								
a) Ground investigation	Grout Pump	Other PME List	1	70%	Fabric	-10	105	93
	Drill rig, rotary type (diesel)	Other PME List	1	100%	Fabric	-10	110	100

Activities	Plant	TM Ref. / Other Ref. [1]	No. of PME	On-time %	Type of Noise Control [2]	Noise reduction, dB(A)	Unit SWL, dB(A)	SWL, dB(A)
b) Breaking up of pavement	Hydraulic breaker	BS D8 12	1	70%	Fabric	-5	106	99
c) Site Clearance	Bulldozer	BS D3 27	1	100%	Fabric	-5	109	104
d) Site formation Excavation / Shoring	Excavator	BS D3 97	1	100%	Fabric	-5	105	100
	Power rammer	CNP 169	1	70%	Fabric	-5	108	101
	Sheet piling machine	BS D4 13	1	100%	Fabric	-10	106	96
e) Construction of sub-structure	Mobile crane	BS D7 114	1	100%	Fabric	-5	101	96
f) Backfilling	Power rammer	CNP 169	1	100%	Fabric	-5	108	103
g) Construction of superstructure	Mobile crane	BS D7 114	1	100%	Fabric	-5	101	96
h) E&M installations	Mobile crane	BS D7 114	1	100%	Fabric	-5	101	96
i) Architectural and landscaping work	Mobile crane	BS D7 114	1	100%	Fabric	-5	101	96

[1] [BS - British Standard BS 5228:2009, Part 1 Noise and Vibration Control on Construction and Open Sites
Other Ref. - SWLs refer to Sound power levels of other commonly used PME documented by the Noise Control Authority
(https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)

[2] -5 dB(A) for movable plant; -10 dB(A) for stationary plant.

Figure 6.1 – Locations of the Proposed Mitigation Measures

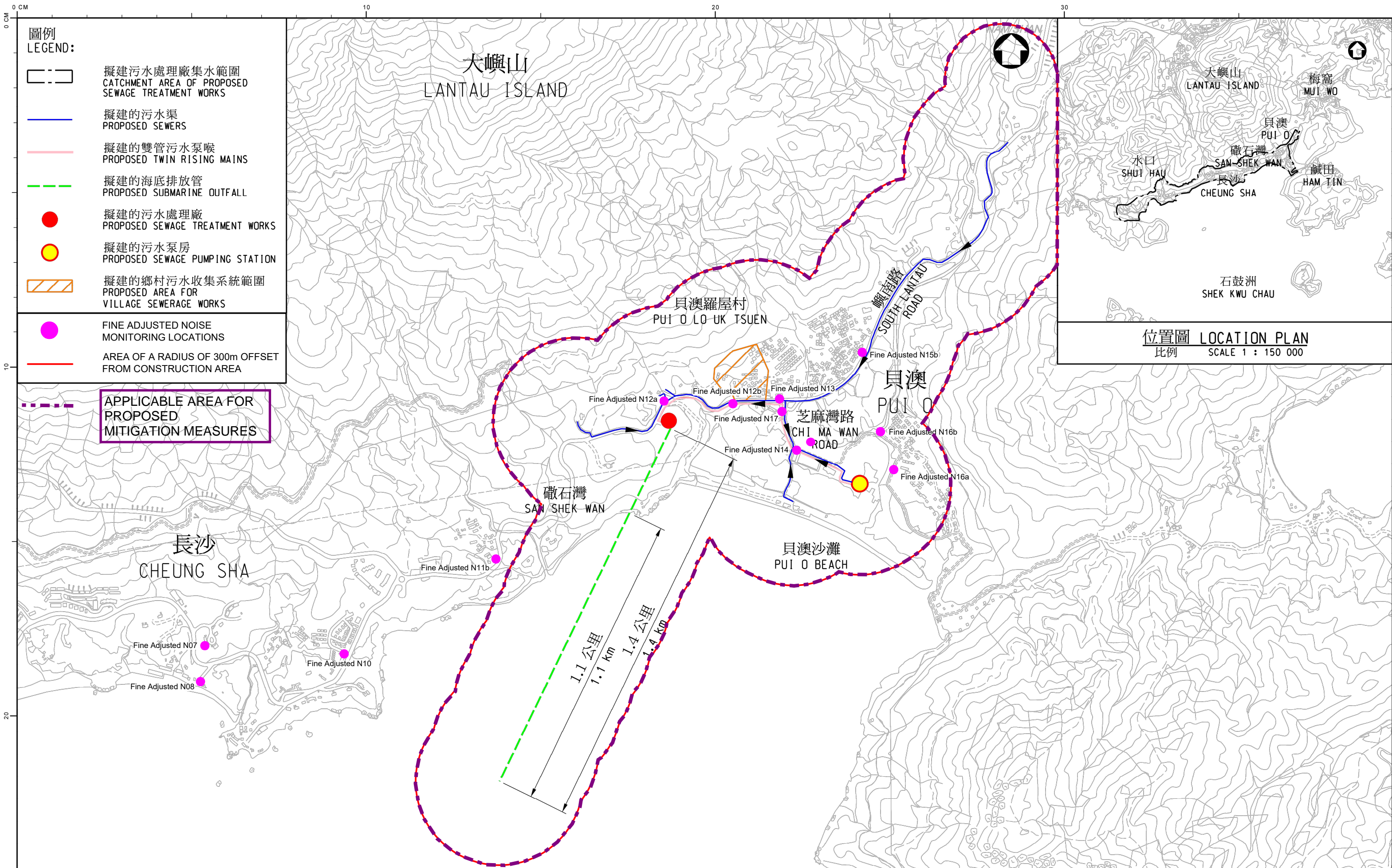
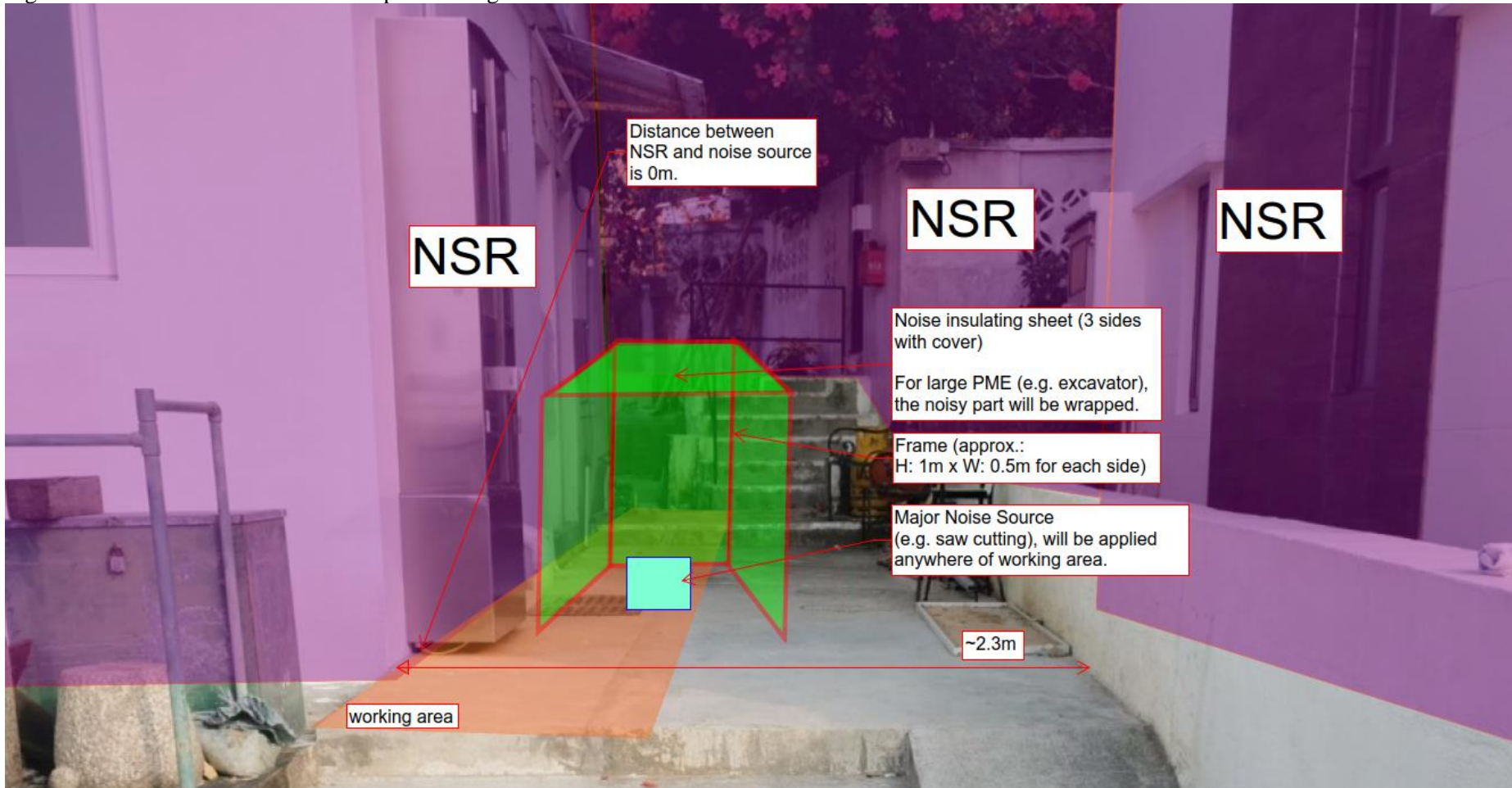


Figure 6.2.1 – Building Height of NSR



Figure 6.2.2 – Cross-section of the Proposed Mitigation Measures



* NSR indicated in the Figure 6.2.1 & 6.2.2 is representing the worst case scenario at residential in Lo Uk Tsuen that sensitive to noise for construction of Village Sewers, rather than the Representative Noise Sensitive Receivers (NSRs) stated in the approved EIA Report.

6.2 GOOD SITE PRACTICES

The following good site practices shall be adopted to further reduce the noise impacts:

- Only well-maintained plant shall be operated on-site and plant shall be serviced regularly;
- Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction programme;
- Mobile plant, if any, shall be sited as far away from NSRs as applicable;
- Machines and plant (such as trucks) that may be in intermittent use must be shut down between works periods or shall be throttled down to a minimum;
- Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and
- Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from on-site construction activities.

7 IMPACT MONITORING DURING CONSTRUCTION

This section provides an evaluation of the potential noise impacts arising from the construction activities of the proposed project. Impact noise monitoring shall be conducted to demonstrate the compliance on Construction Noise Standards of the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM).

Mitigation measures will be adopted to respond accordingly to the result of noise monitoring to prevent triggering the Limit Level for construction noise monitoring.

The residual construction noise impacts are anticipated to be localised, temporary, reversible, only lasted for a relatively short period of time, and the actual impact will be minimized through proper phasing of works and properly managed construction schedule. Active and close communication will conduct with various stakeholder (school, residents, etc.) to minimize the impact through the construction works. Refer to *Appendix F* for some photograph record.

7.1 MONITORING

Environmental Monitoring and Audit (EM&A) Manual will serve as a guideline to set up of an EM&A programme for noise monitoring to ensure compliance with the Environmental Impact Assessment (EIA) study recommendations, to assess the effectiveness of the recommended mitigation measures and to identify any further need for additional mitigation measures or remedial action.

The Environmental Team Leader and his team member will be responsible for the set-up, implement and maintain of EM&A programme.

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Event and Action Plan for Construction Noise will be followed when exceedance in Action Level and Limit Level is received.

Also, daily and weekly site monitoring and inspections will be conducted when necessary in order to ensure the effectiveness of implemented noise mitigation measures and construction noise levels generated are fully complied with requirements.

Table 7.1 - Event and Action Plan for Construction Noise Monitoring

Event	Action			
	ET	IEC	ER	Contractor(s)
Action Level	1. Carry out investigation to identify the source and cause of the complaint/ exceedance(s)	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
	2. Notify IEC, ER, and Contractor(s) and report the results of investigation to the Contractor(s), ER and the IEC	2. Review the proposed remedial measures by the Contractor(s) and advise the ER accordingly	2. Require Contractor(s) to propose remedial measures for the analysed noise problem	2. Implement noise mitigation proposals
	3. Discuss with the Contractor(s) and IEC for remedial measures required	3. Supervise the implementation of remedial measures	3. Ensure remedial measures are properly implemented	
	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(s)			
Limit Level	1. Carry out investigation to identify the source and cause of the exceedance	1. Review the analyzed results submitted by the ET	1. Confirm receipt of Notification of Exceedance in writing	1. Take immediate action to avoid further exceedance
	2. Notify IEC, ER, Project Proponent, EPD and Contractor(s)	2. Discuss the potential remedial measures with ER, ET Leader and Contractor(s)	2. Require the Contractor(s) to propose remedial measures for the analysed noise problem	2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification
	3. Repeat measurements to confirm findings	3. Review Contractor(s)'s remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly	3. Ensure remedial measures are properly implemented	3. Implement the agreed proposals
	4. Provide investigation report to IEC, ER, EPD and Contractor(s) he causes of the exceedances	4. Supervise the implementation of remedial measures	4. If exceedance continues, consider what activity of the work is responsible and instruct the Contractor(s), in agreement	4. Resubmit proposals if problem still not under control.

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Event	Action			
	ET	IEC	ER	Contractor(s)
			with the Project Proponent, to stop that activity of work until the exceedance is abated	
	5.If the exceedance is related to the Project, assess effectiveness by additional monitoring.			5.Stop the relevant activity of works as determined by the Project Proponent until the exceedance is abated
	6.Report the remedial action implemented and the additional monitoring results to IEC, EPD, ER and Contractor(s)			
	7.If exceedance stops, cease additional monitoring			

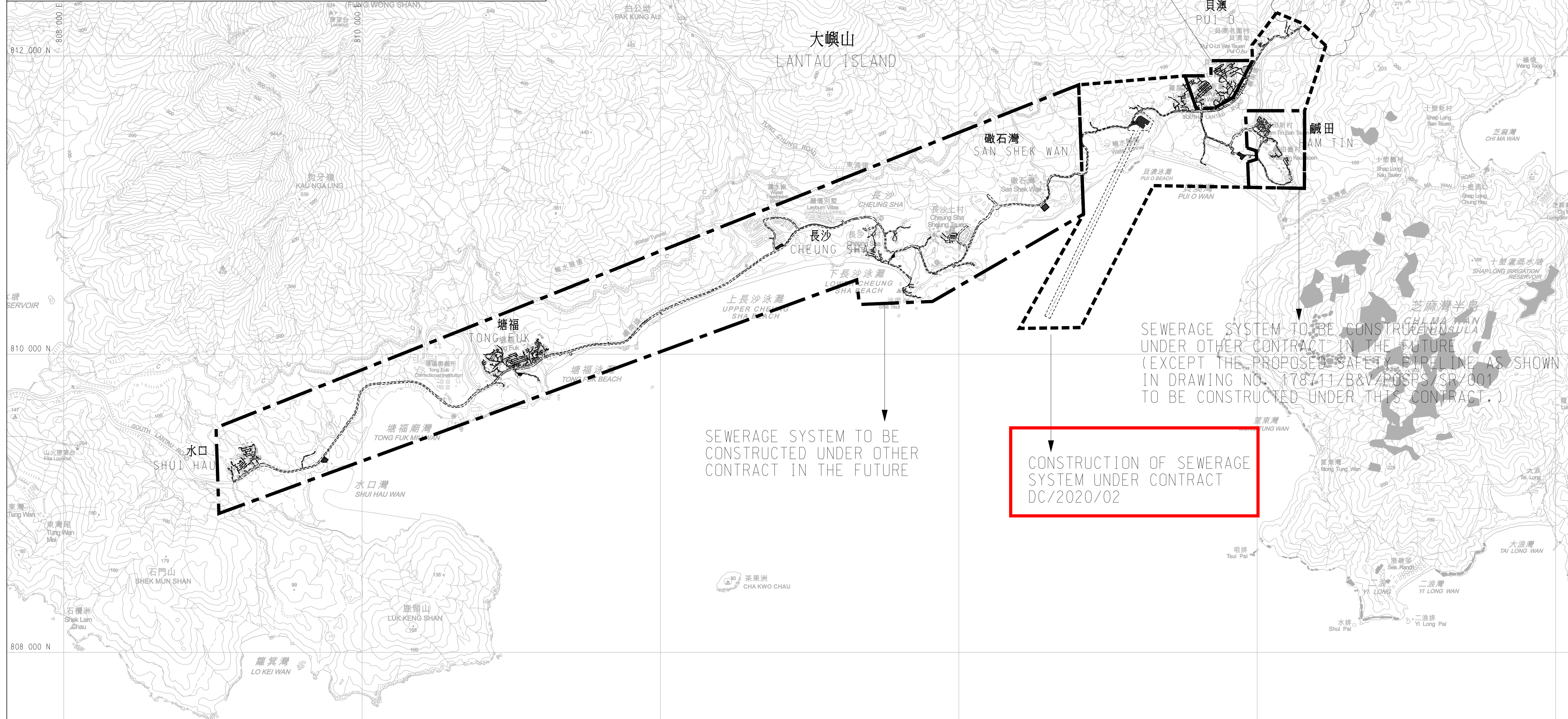
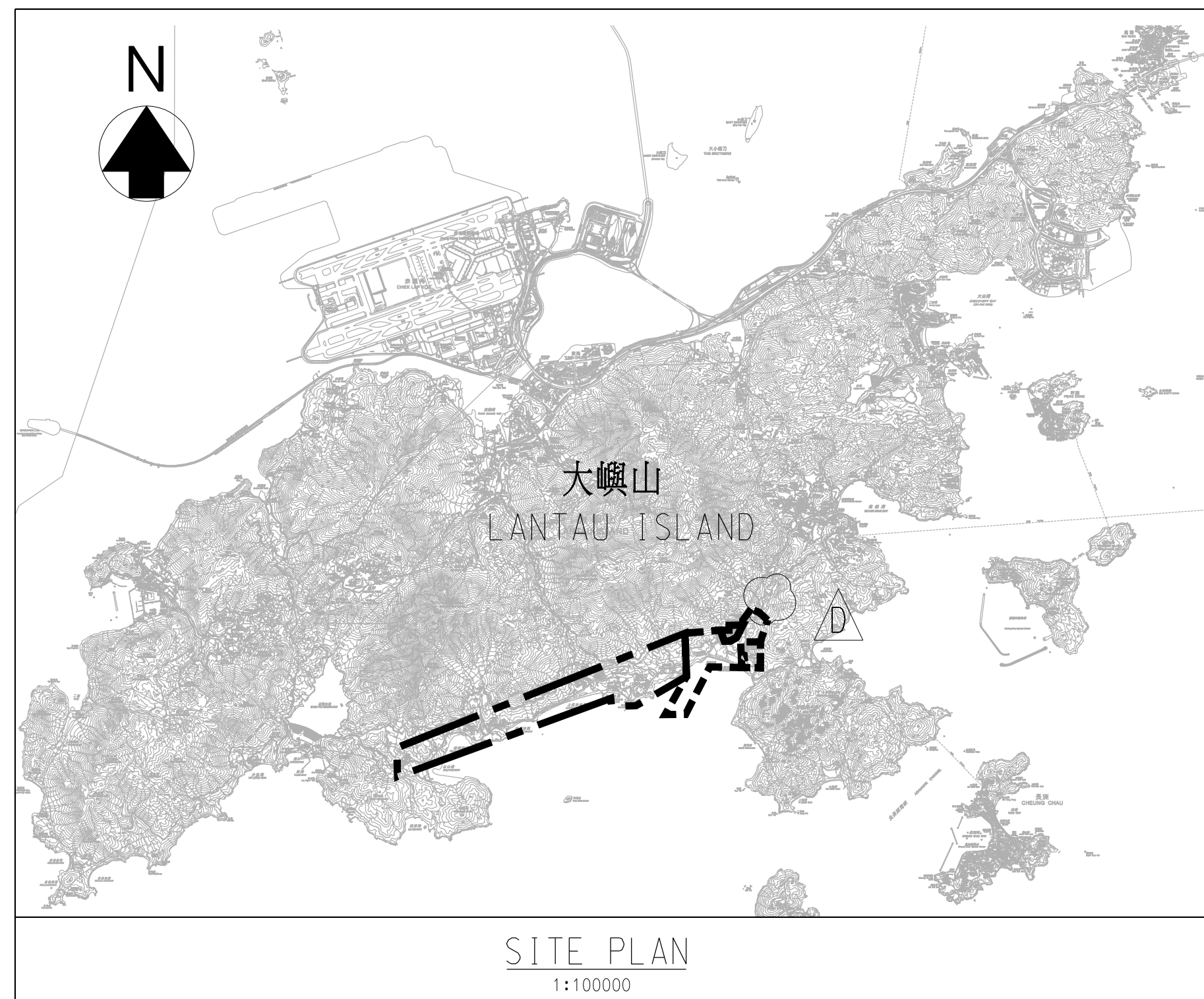
8 CONCLUSION

The recommendations given in the approved EIA will be followed to ensure construction noise performance requirements set out in the EIA will not be exceeded. Mitigation measures, including use of quiet construction plant, movable noise barriers, noise insulation sheet and scheduling of construction activities, have been considered and adopted as far as possible. Regular noise monitoring at NSRs will be carried out as part of the EM&A programme, to ensure the construction noise performance requirements set out in the EIA will not be exceeded with the mitigation measures in place.

Active and close liaison will be conducted with various stakeholders in the local communities to minimise the construction noise impact.

(END)

Appendix A – Site Layout Plan



D	11/20	TENDER ADDENDUM NO.6	BL
C	11/20	TENDER ADDENDUM NO.5	BL
B	11/20	TENDER ADDENDUM NO.4	BL
A	09/20	TENDER ADDENDUM NO.2	TFL
Revision	Date	Description	Initial
	Designed	Checked	Drawn
Initial	TFL	BL	SZ
Date	04/20	04/20	04/20
Approved			

Contract no. DC/2020/02

Contract title
CONSTRUCTION OF SAN SHEK WAN SEWAGE TREATMENT WORKS, ASSOCIATED SUBMARINE OUTFALL AND PUI O SEWAGE WORKS

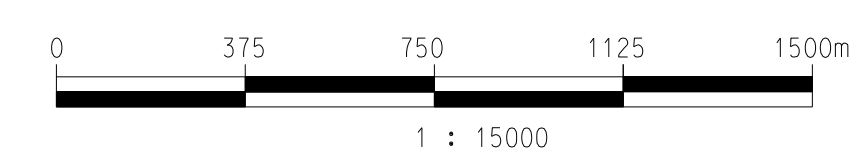
Drawing title
SOUTH LANTAU SEWAGE WORKS - MASTER LAYOUT PLAN

Drawing no. 178711/B&V/GN/001
Revision D

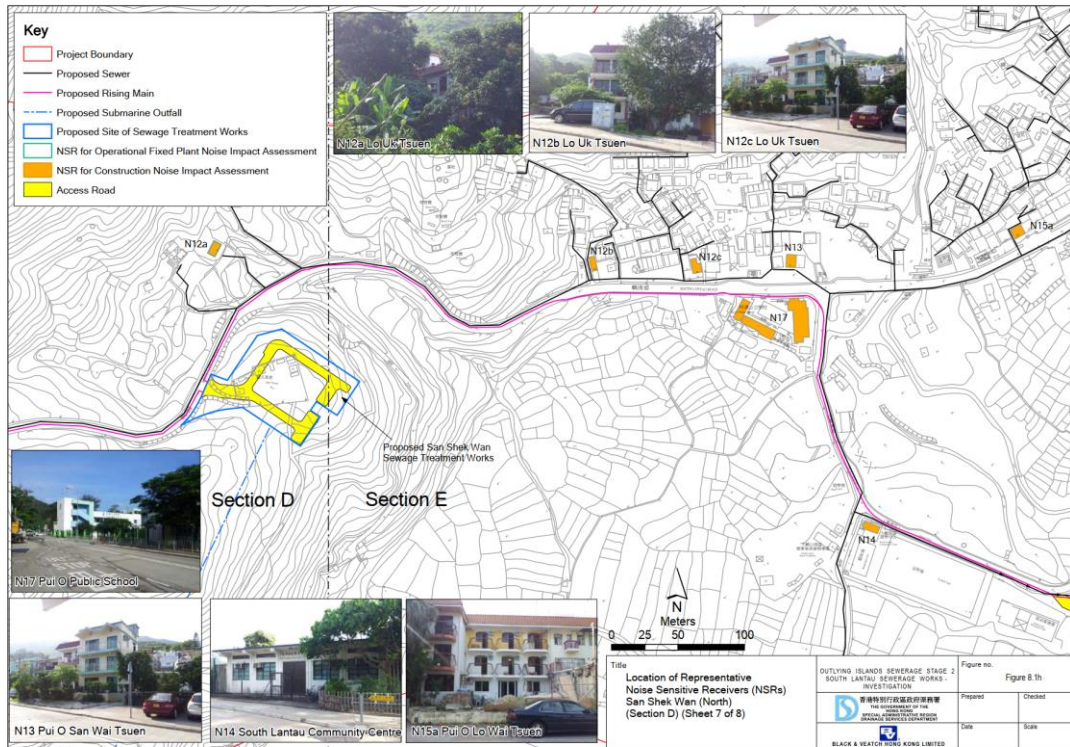
Scale 1 : 15000

香港特別行政區政府渠務署
THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION
DRAINAGE SERVICES DEPARTMENT

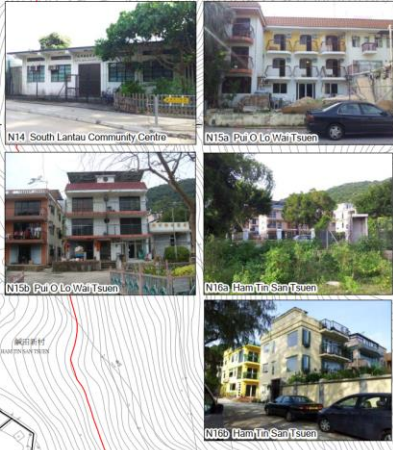
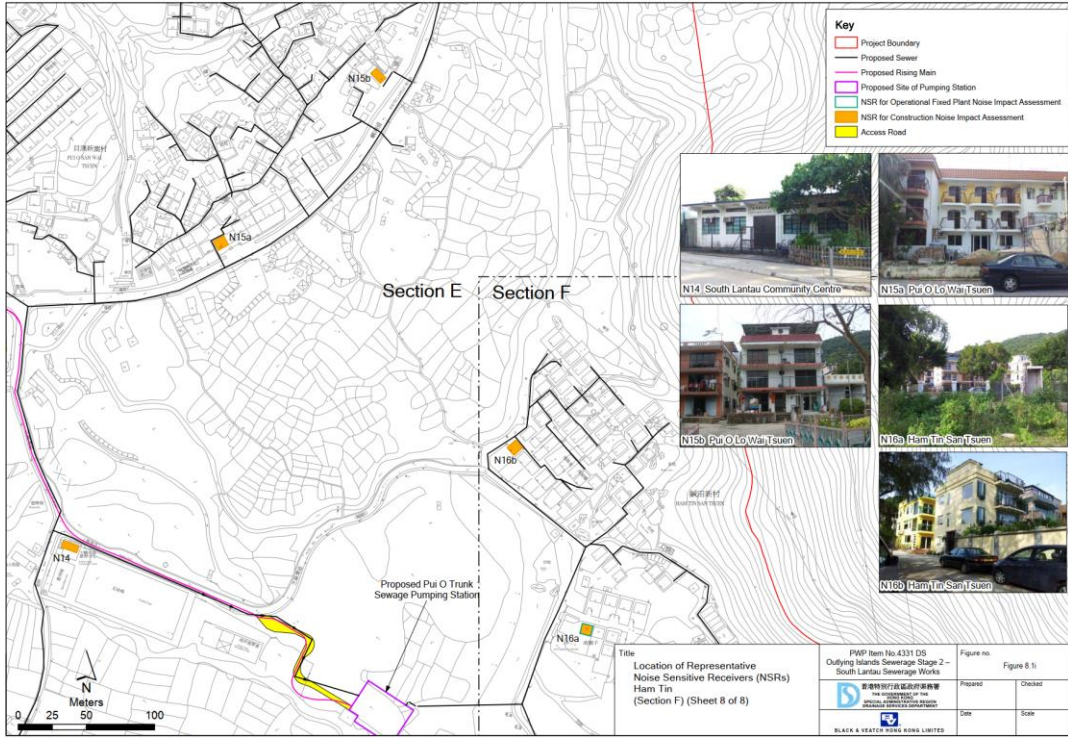
BLACK & VEATCH HONG KONG LIMITED
博威工程顧問有限公司



Appendix B – Layout Plan of Noise Sensitive Receivers (NSRs)



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Date: 4/10/2016



Title
Location of Representative
Noise Sensitive Receivers (NSRs)
Ham Tin
(Section F) (Sheet 8 of 8)

PWP Item No. 4331 DS Outlying Islands Sewerage Stage 2 - South Lantau Sewerage Works		Figure no.	Figure 6.11
		Prepared	Checked
		Date	Scale
BLACK & VEATCH HONG KONG LIMITED			

File: T:\GIS\CONTRACT\0227541\Mxd\NSR\0227541_NSR_F.mxd
Date: 28/7/2014

Appendix C – Noise Mitigation Measures



Photo 1 – Partial Enclosure



Photo 2 – Noise Barrier



Photo 3 – Noise Insulating Sheet

“MODERN” SOUND PROOF SHEET

“現代” 隔音帆布

FEATURE

- Reduce Noise Level 降低噪音水平
- Obstruct Dust 阻隔灰塵
- Fire Retardant 阻燃
- Light Weight and Foldable 輕便及可摺合收藏
- Comply to Standard of Japanese Product, Direct Import from Factory 符合日本產品標準, 直接從廠家入口, 價廉物美
- Tested under British Standard BS EN ISO 140-3:1995 w/certificate 經過英國標準測試及證書 BS EN ISO 140-3:1995
- Grey Color, Range of Sizes Available 灰色, 不同尺寸以供選購

COMPOSITION

- PVC Resin PVC 樹脂
- Plasticizer 增塑劑
- Polyester Fiber 聚酯纖維
- Fire Retardant 阻燃劑

APPLICATION ON SOUND SOURCE

- DRILLING / MINING
- CONCRETE BREAKER
- GENERATOR

SPECIFICATION

Brand	Product Code	Size W x H (m)	Density (kg/m ²)	Thickness (mm)	Tensile Strength (N/5cm)		Tear Strength (N/5cm)		Elongation (%)	
					Vert.	Hori.	Vert.	Hori.	Vert.	Hori.
MODERN 現代	SPS2030-10	2 x 3	1.2	1.0	1,617	1,330	117	155	24	24
	SPS1834-10	1.8 x 3.4	1.2	1.0	1,617	1,330	117	155	24	24
	SPS2030-04	2 x 3	0.5	0.4	808	670	50	65	24	23

TEST REPORT

TEST STANDARD:
BS EN ISO 140-3:1995



SETUP UNDER TEST
(SOURCE ROOM)



SETUP UNDER TEST
(RECEIVING ROOM)



現代 MODERN

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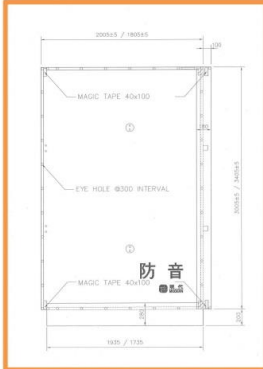
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Photo 4 – Noise Insulating Sheet

“MODERN” SOUND PROOF SHEET

“現代” 隔音帆布

DIMENSION



MANAGEMENT & MAINTENANCE

- Please check each tie position on each sheet at least once every month
- In case of typhoon or strong wind $\geq 15\text{m/s}$, please take off the sheets or detach one side of the sheet then fold them up and tighten to prevent the wind effect
- Please check the damages on fabric after each hot work. Please replace new once any damages to maintain the performance

- After in use, please keep the sheet in dry and open area
- Please do not use the sheet as a catch net or fall arresting net
- Please do not dispose the sheet by burning

NOISE CONTROL ORDINANCE IN HONG KONG

SECTION 9 OF NOISE CONTROL ORDINANCE – AREA SENSITIVITY RATINGS

Area sensitivity ratings, dB(A)	All days during the evening (1900 to 2300 hours) & general holidays (0700 to 2300 hours)		All days during the night-time (2300 to 0200 hours)	
	Within Designated Areas	Others	Within Designated Areas	Others
(1) Rural area	45 – 50	60 – 65	30 – 35	45 – 50
(2) Low density residential area	45 – 55	60 – 70	30 – 40	45 – 55
(3) Urban area	50 – 55	65 – 70	35 – 40	50 – 55
(4) Area other than those above	50 - 55	65 - 70	35 - 40	50 - 55

SIMPLE CALCULATION OF SOUND INSULATION

For a case that distance of source sound level 95dB to receiver = 20m
 Distance decreasing effect: $20\log 20 = 26\text{dB}$
 Sound proof sheet effect: $R_w = 16\text{dB}$ (SPS2030-10)
 Total sound level reduction: 42dB
 Final sound level to receiver: $95\text{dB} - 42\text{dB} = 53\text{dB}$

Tips: If Sound Proof Sheet does not achieve the target sound level value, try the following method to get better sound insulation effect:

- (1) make sound blocking wall higher
- (2) install the sheet double
- (3) install the sheet closer to sound source



現代 MODERN

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Photo 5 – Noise Insulating Sheet

6. TEST RESULTS

Source Room:		
Temperature:	28	°C
Humidity:	70	%
Volume:	221	m ³
Receiving Room:		
Temperature:	28	°C
Humidity:	70	%
Volume:	80	m ³
Specimen Dimension used for calculation:		
Width:	3500	mm
Height:	3000	mm
Freq. (Hz)	1/3 Oct, R (dB)	1/1 Oct, R (dB)
100	8.5	
125	9.8	9.4
160	10.1	
200	9.2	
250	9.3	9.5
315	10.0	
400	10.8	
500	12.1	11.6
630	12.0	
800	13.9	
1000	15.1	15.2
1250	17.0	
1600	18.3	
2000	20.1	19.9
2500	22.2	
3150	24.2	
4000	24.9	25.2
5000	26.9	
The Weighted Sound Reduction Index calculated in accordance with BS EN ISO 717-1: 1997 and the spectrum adaptation terms were shown as follow:-		
Rw (C;C_{tr})	=	16 (-1;-2)dB
C₁₀₀₋₅₀₀₀	=	0 dB
C_{tr,100-5000}	=	-2 dB

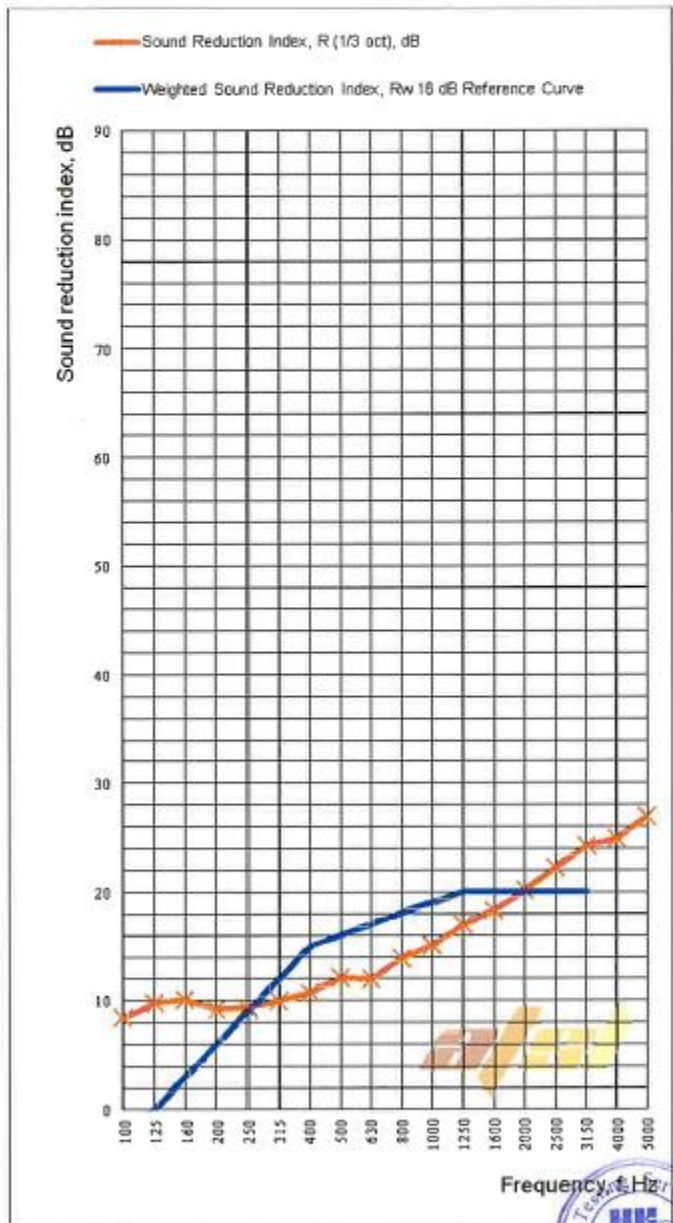


Figure 1. Sound Reduction Indexes against Frequency

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Acoustics Innovation

SilentUP® Retractable Noise Barrier

PATENTED



Product of Hong Kong
**THE WORLD'S FIRST
RETRACTABLE NOISE BARRIER**
27dB(A) NOISE REDUCTION*

* Tested with white noise source with SilentUP® STC24



Roadworks



Breaking
Drilling



Piling



Loading
Unloading



Concreting

aihk.hk

info@aihk.hk

(852) 2702-2007

R&D Division of
 Wilson
Acoustics Limited

Photo 7 – Retractable Noise Barrier

Product Description

SilentUP® is a patented retractable noise barrier for construction works and outdoor music events. It can be easily installed and mobilized by people without using any machines. No concrete foundation is required and the installation process is quiet enough to be conducted even at night time. The panels are installed upwards from ground level and connected by magnetic gap sealing.

Our product has been widely used in Hong Kong. Visit our website for the job references aihk.hk/SilentUP/reference.

Benefits

- Quiet and manual installation
- Flexible construction site planning
- Facilitate Construction Noise Permit (CNP) application process
- Minimize noise complaints
- No concrete foundation required

Technical Information

SilentUP® noise barrier material conforms to the flammability requirement specifications.

BS5867-2:2008 TYPE B

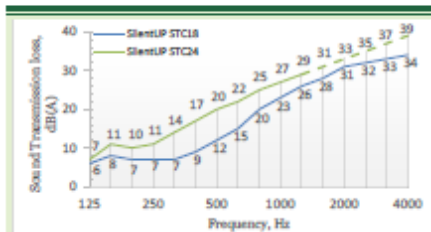
GB8624-1997 TYPE B1

Product Specification

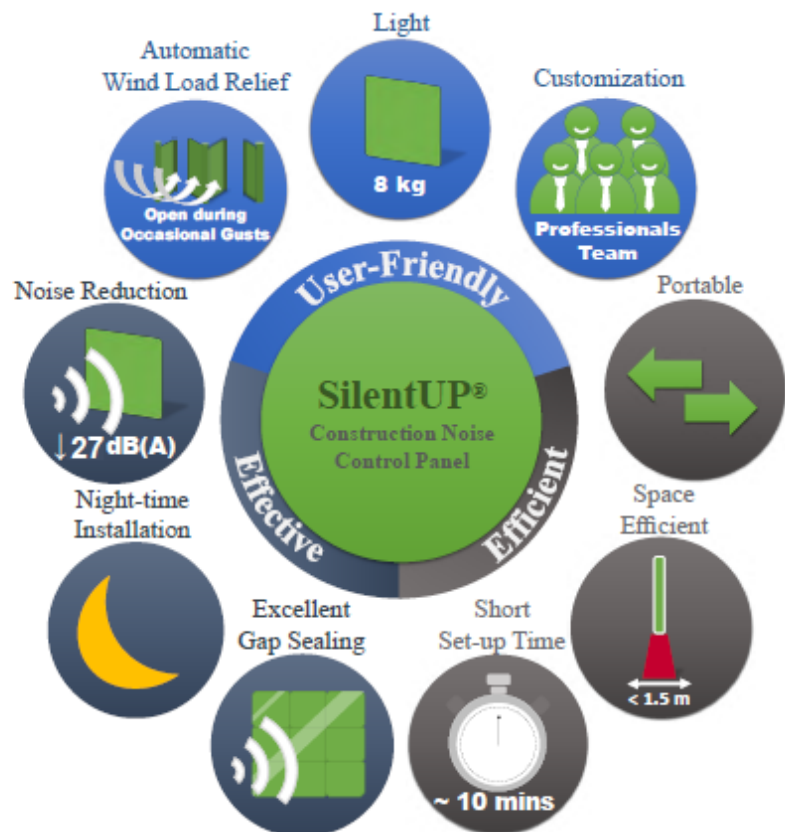
STC	18	24
Insertion Loss*	22 dB(A)	27 dB(A)
Modular Weight	5kg	8kg
Maximum Height	7m	5m
Modular Size	1m(H) x1.35m(W)	
Standard Colour	Grey	
Panel Thickness	100mm on edges	

* Tested with white noise source

Sound Transmission Loss



Testing method in accordance with ASTM E90 - 09



Client Feedback

“Some of our contractors have used the retractable noise barriers to facilitate CNP application. They have found this innovative product useful - lightweight, easy to manoeuvre, and fit for purpose.”

Richard Kwan
Environment Manager
MTR Corporation Ltd

“We are impressed by SilentUP’s quick installation and relocation, it is definitely one of the best innovations and practicable approaches for the noise mitigation measures for the construction activities.”

Lighting Chan
Environmental Compliance Support Manager,
Leighton Asia Ltd

“We are happy with Acoustics Innovation’s professional service (SilentUP Noise Barrier) in helping us achieve our noise mitigation goals.”

Ronald Fung
Project QA & Environmental Manager
Kier - Laing O’Rourke - Kaden Joint Venture

“SilentUP is definitely a useful tool to minimize the noise pollution. We successfully obtained a CNP and most importantly no complaint has been received from the NSRs.”

Clarence Yeung
Environmental Officer
Chun Wo Construction and Engineering Co. Ltd

Installation videos available at aihk.hk/youtube

aihk.hk

info@aihk.hk

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Care has been taken to ensure the provided information is accurate, but Acoustics Innovation Ltd, does not accept responsibility or liability for errors or information which is found to be misleading.

Flexible Acoustic Barrier Mat



Acoustical Force® Acoustic Barrier Mat is manufactured with various features for the industry. It is mostly used in construction sites, to help prevent noise transmitting to the neighborhood and control noise spreading as well as reducing noise

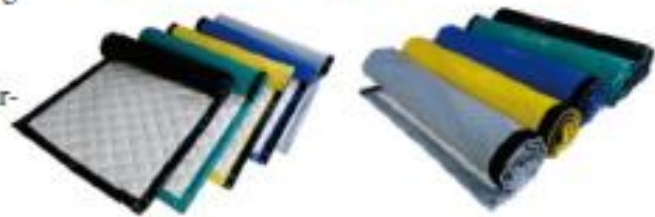
level in the working area. It can provide a better environment to the workers and avoid complaint from vicinities nearby, especially when your projects are in downtown.

Features of Acoustical Force® Acoustic Barrier Mat

- Up to STC 32 Performance;
- Water-proof and Fire-retardant;
- Durable PVC Surface;
- Various Thickness Fit for Different Needs;
- Tailor-made Product / Services Available;
- Applied Using Canned Chicken Eye Rings and/or Velcro Fasteners;
- Cost Saving Product;
- High Surface Density, Durable, High Performance Design;
- Reduced Installation Time;
- No Unpleasant Odors.

Typical Applications:

- Construction Site;
- Factory / Plump Room;
- Workshop;
- Machinery;
- Generator Enclosure etc.



Model	AB22	AB27	AB32
Damping Sheet Core Thk.	1.2±0.1mm	2.0±0.1mm	3.0±0.1mm
Surface Density (kg/m ²)	4.5±10%	7.1±10%	8.5±10%
Sound Transmission Loss ASTM E90-09 (2016)	STC 22	STC 27	STC 32



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No.10, Fung Hing Street, Au Tau
Yuen Long, NT, Hong Kong

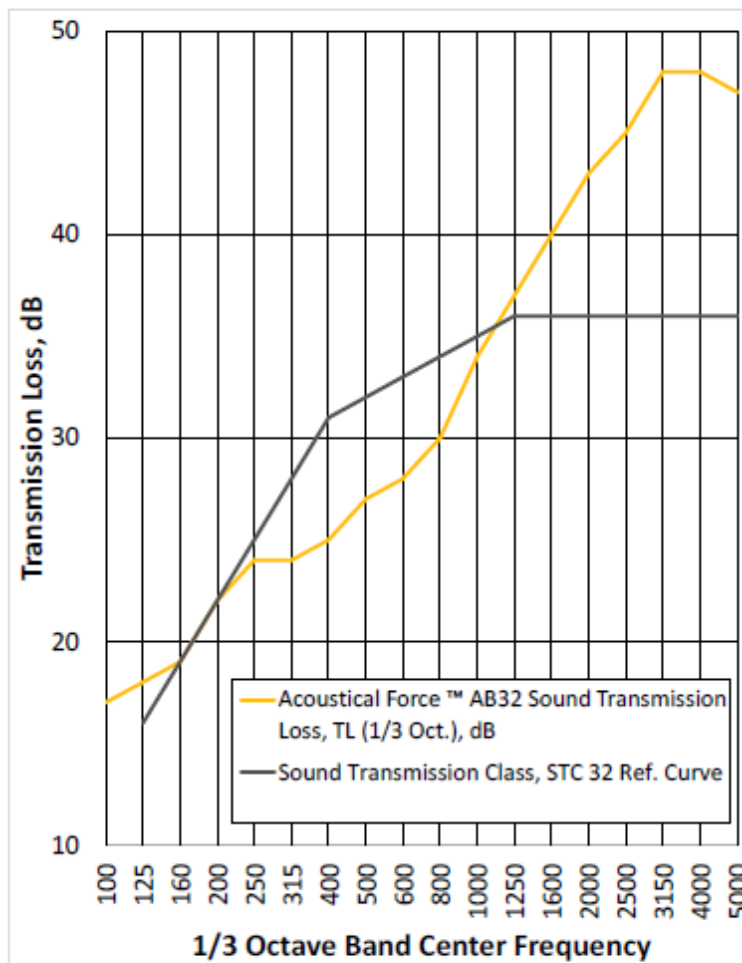
Ayric 冠行建業
Material & Engineering

Photo 9 – Flexible Noise Barrier

Product Specification

Composition	Acoustic wool & acoustic damping sheet core (thickness upon order), faced with PVC canvas, backed with fiberglass cloth.
Pattern	Hanging pattern
Sound Transmission Loss ASTM E90-09 (2016)	STC 22, STC 27, STC 32
Fire-resistance Rating	B1
Standard Size	1500*1000, 2000*1000, 2500*1000, 3000*1000 customize size or design also acceptable
Customizable Features	PVC Colors, Printings, Damping Sheet Layers, Density of Acoustic Wool, Tailor-made Size, Joint Design, Velcro Dimension, etc.
Packing	Pack and deliver in rolls

Sound Transmission Loss Curve



Color Code



Appendix D – Register for Quality Powered Mechanical Equipment (QPME) on Site

Register for Quality Powered Mechanical Equipment (QPME) on Site

Contract No.: Contract No. DC/2020/02
Construction of San Shek Wan Sewage Treatment Works,
Contract Title: Associated Submarine Outfall and Pui O Sewerage Works

Plant Type	Manufacturer	Model #	Serial No.	Owner	Guaranteed Sound Power Level dB(A)	QPME ID Code	Date 日期	
							Arrival 進場	Depart. 離場
Mobile generator	Nissha	NES220T1	FM023000	JV	94 dB(A)	EPD-03707		
Mobile generator	Nissha	NES220T1	FM024300	JV	94 dB(A)	EPD-03733		
Mobile generator	Airman	SDG220L-5B1	P8BB1-0118	JV	94 dB(A)	EPD-08984		
Excavator	Kobelo	SK200-8	YN12-65465	JV	99 dB(A)	EPD-04397		

Remark: This QPME list is a reference only. The plant / equipment model and serial number may be changed actually.

Appendix E – Tentative Construction Programme of DC/2020/02



Contract No. DC/2020/02
 Construction of San Shek Wan Sewage Treatment Works,
 Associated Submarine Outfall and Pui O Sewerage Works



Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Baseline Start	Baseline Finish	Total Float	Time Risk Allowance	2021 2022 2023 2024 2025 2026											
											Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Monthly Programme for Feb 2022		1551	19-Mar-21 A	24-Aug-26	19-Mar-21	24-Aug-26	19-Mar-21	28-Mar-26	0													
Project Contractual Dates		1551	19-Mar-21 A	24-Aug-26	27-Jun-21	28-Mar-26	19-Mar-21	28-Mar-26	-119													
Contractual Dates		11	19-Mar-21 A	30-Mar-21 A	27-Jun-21	27-Jun-21	19-Mar-21	30-Mar-21			▼ 30-Mar-21 A, Contractual Dates											
CD-1000	Contract Date	0	19-Mar-21 A		27-Jun-21		19-Mar-21		0		◆ Contract Date											
CD-1010	Starting Date	0	30-Mar-21 A		27-Jun-21		30-Mar-21		0		◆ Starting Date											
Access Date of Each Portion		247	30-Apr-21 A	01-Mar-22	27-Jun-21	28-Mar-26	27-Jun-21	25-Oct-21	1489		▼ 01-Mar-22, Access Date of Each Portion											
CD-2000	Contract Access date of Portion A, B1, C1, D1, D3, E1, E2, E3 and W1 (90 days)	0	01-Mar-22*		27-Jun-21		27-Jun-21		-247	0	◆											
CD-2010	Contract Access date of Portion B2, C2, D2 and D4 (210 days)	0	04-Oct-21 A		17-Dec-21		25-Oct-21		0	0	◆ Contract Access date of Portion B2, C2, D2 and D4 (210 days)											
CD-2020	Access date of Portion A and B1 (90 days)	0	30-Apr-21 A		22-Nov-21				0	0	◆ Access date of Portion A and B1 (90 days)											
CD-2030	Access date of Works Area W1 (90 days)	0	17-May-21 A		28-Mar-26				0	0	◆ Access date of Works Area W1 (90 days)											
CD-2040	Access date of Works Area C1 & D3 (90days) and B2, C2, & D2 (210 days)	0	30-Jul-21 A		28-Mar-26				0	0	◆ Access date of Works Area C1 & D3 (90days) and B2, C2, & D2 (210 days)											
CD-2050	Simplified Temporary Land Allocation (STLA) access date of Works Area D1 & E1 (90days)	0	10-Aug-21 A		28-Mar-26				0	0	◆ Simplified Temporary Land Allocation (STLA) access date of Works Area D1 & E1 (90days)											
Sectional Completion		1055	08-May-23	28-Mar-26	08-May-23	28-Mar-26	08-May-23	28-Mar-26	0		▼ 08-May-23											
SC-1000	Section 1 The Trunk Sewers and Rising Mains in Portion A and B1 & B2 in Lo Uk Tsuen (770 days)	0		08-May-23*		08-May-23		08-May-23	0	0	Tsuen (770 days) ◆											
SC-1010	Section 2 Foundation, Substructure and Superstructure of POSPS, Trunk Sewers and Rising Mains in D1 & D2 (770 days)	0		08-May-23*		08-May-23		08-May-23	0	0	D1 & D2 (770 days) ◆											
SC-1020	Section 3 Whole of the works excluding the works in sections 1 and 2(1825 days)	0		28-Mar-26*		28-Mar-26		28-Mar-26	0	0	works excluding the works in sections 1 and 2(1825 days) ◆											
Planned Sectional Completion Date		1091	29-Aug-23	24-Aug-26	08-May-23	28-Mar-26	14-Apr-23	03-Feb-26	-149		▼ 29-Aug-23											
Sectional Completion Dates		1091	29-Aug-23	24-Aug-26	08-May-23	28-Mar-26	14-Apr-23	03-Feb-26	-149		▼ 29-Aug-23											
PC-1000	Planned Section 1 completion date	0		11-Oct-23		08-May-23		14-Apr-23	-156	0	on 1 completion date ◆											
PC-1010	Planned Section 2 completion date	0		29-Aug-23		08-May-23		27-Apr-23	-113	0	on 2 completion date ◆											
PC-1020	Planned Section 3 completion date	0		24-Aug-26		28-Mar-26		03-Feb-26	-149	0	Planned Section 3 completion date ◆											
NCE		255	27-Jun-21 A	30-Apr-22	23-Sep-21	01-Mar-22			-49		▼ 30-Apr-22, NCE											
NCE-001	No fully access to Portion D1 (90 days) [PGLA on 4 Oct 2021]	99	27-Jun-21 A	03-Oct-21 A	08-Nov-21	08-Nov-21			0		■ No fully access to Portion D1 (90 days) [PGLA on 4 Oct 2021]											
NCE-002	No fully access to Portion E1 on access date (90 days) [PGLA on 12 Jan 2022]	199	27-Jun-21 A	11-Jan-22 A	05-Oct-21	05-Oct-21			0		■											
NCE-003	No fully access to Portion E2 and E3 on access date (90 days)	219	27-Jun-21 A	31-Jan-22 A	05-Oct-21	05-Oct-21			0		■											
NCE-008a	Delay and Disruption of Works due to Inclement Weather for Oct 2021 (8-9 Oct 2021)	2	08-Oct-21 A	09-Oct-21 A	05-Oct-21	05-Oct-21			0		Delay and Disruption of Works due to Inclement Weather											
NCE-008b	Delay and Disruption of Works due to Inclement Weather for Oct 2021 (12-13 Oct 2021)	2	12-Oct-21 A	13-Oct-21 A	05-Oct-21	05-Oct-21			0		Delay and Disruption of Works due to Inclement Weather											
NCE-010	Extra time for GI works for BH-5 (50m dep. on 13/11 and 100m dep. on 22/11) due to unforeseen deep rockhead in POSPS	9	14-Nov-21 A	22-Nov-21 A	08-Nov-21	08-Nov-21			0		Extra time for GI works for BH-5 (50m dep. on 13/11 and 100m dep. on 22/11) due to unforeseen deep rockhead in POSPS											
NCE-011	Delay and Disruption of Works due to Inclement Weather for Feb 2022 (21-23 Feb 2022)	3	21-Feb-22 A	23-Feb-22 A	29-Oct-21	29-Oct-21			0		(2022)											
NCE for PMI of 12 nos inspection pits at South Lantau Road, Lo Uk Tsuen and Chi Ma Wan Road		203	29-Jun-21 A	30-Apr-22	23-Sep-21	01-Mar-22			-49		▼ 30-Apr-22, NCE for PMI of 12 nos inspection pits at											
NCE-006a	Preparation and Issurance of PMI for 12 nos Inspection pits at South Lantau Road, Lo Uk Tsuen and Chi Ma Wan Road by PM	7	29-Jun-21 A	11-Aug-21 A	23-Sep-21	23-Sep-21			0		■ Preparation and Issurance of PMI for 12 nos Inspection pits											
NCE-006b	Received PMI for 12 nos Inspection pits at South Lantau Road, Lo Uk Tsuen and Chi Ma	0	11-Aug-21 A	11-Aug-21 A	23-Sep-21	23-Sep-21			0		Received PMI for 12 nos Inspection pits at South Lantau/Ro											
NCE-006c	JV prepared XP plans	7	11-Aug-21 A	18-Aug-21 A	23-Sep-21	23-Sep-21			0		JV prepared XP plans											
NCE-006d	JV revised XP plans as per PM's comment	7	18-Aug-21 A	25-Aug-21 A	23-Sep-21	23-Sep-21			0		JV revised XP plans as per PM's comment											
NCE-006e	Confirmation and circulation by PM for XP and TTA application	7	25-Aug-21 A	03-Sep-21 A	23-Sep-21	23-Sep-21			0		Confirmation and circulation by PM for XP and TTA applicat											
NCE-006f	Revision & accept XP ID 1300556 application and TTA for South Lantau Road	90	04-Sep-21 A	17-Jan-22 A	23-Sep-21	23-Sep-21			0		■											

Summary
 Actual LOE
 Remaining LOE
 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone
 Crit Milestone
 Actual Milestone
 Project Baseline
 Baseline Milestone
 Start Constraint
 Finish Constraint
 No Predecessors
 No Successors

Project ID: MP202202
Tentative Construction Programme of DC/2020/02
 Page 1 of 19

Data Date: 28-Feb-22
Printed: 23-Mar-22 14:51
Layout: SSW- Tentative Construction Programme
TASK filter: All Activities

Date	Revision	Checked	Approved



Contract No. DC/2020/02
 Construction of San Shek Wan Sewage Treatment Works,
 Associated Submarine Outfall and Pui O Sewerage Works



Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Baseline Start	Baseline Finish	Total Float	Time Risk Allowance	2021 2022 2023 2024 2025 2026												
											Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
NCE-006f10	Revision & accept XP ID 1300565 application and TTA for Chi Ma Wan Road	90	04-Sep-21 A	19-Jan-22 A	21-Oct-21	21-Oct-21				0													
NCE-006g	Trial run and inspection pits works at South Lantau Road	58	18-Feb-22 A	30-Apr-22	23-Sep-21	20-Nov-21			-129	0	Road												
NCE-006h	Trial run and inspection pits works at Chi Ma Wan Road	38	16-Feb-22 A	31-Mar-22	21-Oct-21	20-Nov-21			-107	0	Road												
NCE-006i	Inspection pits works at Lo Uk Tsuen (VTP1 & VTP2)	12	29-Sep-21 A	05-Oct-21 A	01-Mar-22	01-Mar-22				0													
Preliminary Works		648	19-Mar-21 A	31-Mar-24	19-Mar-21	28-Mar-26	19-Mar-21	24-Dec-23	592														
PW-1000	Preliminary works	0	19-Mar-21 A	01-Jun-23	19-Mar-21	25-Oct-23	19-Mar-21	24-Dec-23	146	0													
Subletting of Major Subcontract Package		693	19-Mar-21 A	24-Apr-23	05-Oct-21	28-Mar-26	19-Mar-21	14-Oct-21	1069														
SUB-1000	Prepare, submit & accept subletting procedure	28	30-Mar-21 A	15-Apr-21 A	05-Oct-21	05-Oct-21	20-Apr-21	17-May-21		0													
SUB-1020	Sublet early start works (site clearance, formation, tree felling and trial pit)	30	17-May-21 A	08-Jul-21 A	05-Oct-21	05-Oct-21	18-May-21	15-Aug-21		0													
SUB-1025	Sublet GI works	35	17-May-21 A	13-Aug-21 A	08-Nov-21	08-Nov-21				0													
SUB-1028	Sublet village sewerage	40	24-May-21 A	13-Aug-21 A	22-Nov-21	22-Nov-21				0													
SUB-1030	Sublet drainage and duct for road	35	06-Sep-21 A	17-Dec-21 A	22-Nov-21	22-Nov-21	17-Jun-21	14-Oct-21		0													
SUB-1035	Sublet piling works	56	01-Mar-22	25-Apr-22	29-Nov-21	23-Jan-22			-92	0													
SUB-1037	Sublet forming of earthworks platform	35	16-Aug-21 A	10-Sep-21 A	05-Oct-21	05-Oct-21				0													
SUB-1039	Sublet structure works	60	11-Apr-22	09-Jun-22	06-Aug-22	04-Oct-22				117													
SUB-1040	Sublet HDD works	30	24-May-21 A	08-Oct-21 A	09-Oct-21	09-Oct-21	03-Jun-21	17-Jul-21		0													
SUB-1047	Sublet marine diffuser Works	35	01-Mar-22	04-Apr-22	21-Sep-23	25-Oct-23	15-Sep-21	14-Oct-21	569	0													
SUB-1060	Obtain PM's consent for Pre-bid works (E&M)	60	19-Mar-21 A	17-May-21 A	15-Nov-21	15-Nov-21	19-Mar-21	01-Apr-21		0													
SUB-1080	Obtain PM's consent for Pre-bid works (MIC)	70	19-Mar-21 A	24-May-21 A	28-Mar-26	28-Mar-26				0													
SUB-1115	Sublet ELS, earth works and road works	30	06-Dec-21 A	28-Jan-22 A	17-Dec-21	17-Dec-21				0													
SUB-1125	Sublet Marine works (inc. temp. marine platform)	30	01-Nov-21 A	28-Jan-22 A	04-Nov-21	04-Nov-21				0													
SUB-1135	Sublet retaining wall works	60	01-Mar-22	29-Apr-22	21-Mar-23	19-May-23				385													
SUB-1145	Sublet soil nail works	60	01-Mar-22	29-Apr-22	07-Jun-22	05-Aug-22				98													
SUB-1155	Sublet ABWF works for POSPS	60	13-Jun-22	11-Aug-22	05-Aug-22	03-Oct-22				53													
SUB-1165	Sublet ABWF works for SSWSTW	60	24-Feb-23	24-Apr-23	24-Mar-24	22-May-24				394													
Survey		60	10-May-21 A	20-Aug-21 A	05-Oct-21	13-Dec-21																	
SUB-1070	Sublet marine survey	30	01-Jun-21 A	16-Jun-21 A	13-Dec-21	13-Dec-21				0													
SUB-1090	Sublet condition survey	32	10-May-21 A	20-Aug-21 A	05-Oct-21	05-Oct-21				0													
SUB-1100	Sublet UU detection	30	24-May-21 A	02-Jul-21 A	05-Oct-21	05-Oct-21				0													
Consultancy		60	17-May-21 A	23-Jul-21 A	05-Oct-21	28-Dec-21	18-May-21	16-Jul-21															
SUB-1010	Sublet ICE consultant	30	17-May-21 A	10-Jun-21 A	05-Oct-21	05-Oct-21	18-May-21	14-Jun-21		0													
SUB-1012	Sublet design consultant	15	01-Jun-21 A	09-Jul-21 A	05-Oct-21	05-Oct-21				0													
SUB-1015	Sublet TTA consultant	30	17-May-21 A	10-Jun-21 A	22-Nov-21	22-Nov-21	02-Jun-21	29-Jun-21		0													
SUB-1017	Sublet tree specialists	28	17-May-21 A	04-Jun-21 A	28-Oct-21	28-Oct-21				0													
SUB-1050	Sublet of marine traffic consultant	30	21-Jun-21 A	23-Jul-21 A	28-Dec-21	28-Dec-21	17-Jun-21	16-Jul-21		0													
Submissions for the whole works		648	19-Mar-21 A	31-Mar-24	05-Oct-21	28-Mar-26	19-Mar-21	27-Oct-21	592														

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 Actual LOE
 Remaining LOE
 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone
 Crit Milestone
 Actual Milestone
 Project Baseline
 Baseline Milestone
 Start Constraint
 Finish Constraint
 No Predecessors
 No Successors

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 Construction of San Shek Wan Sewage Treatment Works,
 Associated Submarine Outfall and Pui O Sewerage Works



Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Baseline Start	Baseline Finish	Total Float	Time Risk Allowance	Gantt Chart											
											2021	2022	2023	2024	2025	2026						
Structure - Treatment Plant		119	07-Aug-22	03-Dec-22	29-Jun-23	25-Oct-23			326		07-Aug-22 to 03-Dec-22, Structure - Treatment Plant											
SU-2150	Prepare and submit Structure - Treatment Plant	98	07-Aug-22	12-Nov-22	29-Jun-23	04-Oct-23			326	30	07-Aug-22 to 12-Nov-22, Structure - Treatment Plant											
SU-2320	Approve Structure - Treatment Plant	21	13-Nov-22	03-Dec-22	05-Oct-23	25-Oct-23			326	30	13-Nov-22 to 03-Dec-22, Structure - Treatment Plant											
ABWF		105	25-Apr-23	07-Aug-23	23-May-24	04-Sep-24			394		25-Apr-23 to 07-Aug-23, ABWF											
SU-2360	Prepare and submit ABWF shop drawing - Treatment Plant	84	25-Apr-23	17-Jul-23	23-May-24	14-Aug-24			394	0	25-Apr-23 to 17-Jul-23, ABWF											
SU-2370	Approve ABWF shop drawing - Treatment Plant	21	18-Jul-23	07-Aug-23	15-Aug-24	04-Sep-24			394	0	18-Jul-23 to 07-Aug-23, ABWF											
E&M		609	01-Sep-21 A	02-Jun-23	12-Mar-22	26-Oct-23			146		01-Sep-21 A to 02-Jun-23, E&M											
AIP		206	01-Sep-21 A	13-Jan-22 A	12-Mar-22	19-Mar-23					01-Sep-21 A to 13-Jan-22 A, AIP											
AIP Submission		206	01-Sep-21 A	13-Jan-22 A	12-Mar-22	25-Jul-22					01-Sep-21 A to 13-Jan-22 A, AIP Submission											
EM-2010	AIP for E&M works for Treatment Plant submission after obtain revised SSWTW GA	206	01-Sep-21 A	05-Nov-21 A	12-Mar-22	12-Mar-22				30	01-Sep-21 A to 05-Nov-21 A, AIP for E&M works for Treatment Plant submission after obtain revised SSWTW GA											
EM-3330	AIP for E&M works for Treatment Plant approval	21	06-Nov-21 A	13-Jan-22 A	25-Jul-22	25-Jul-22				30	06-Nov-21 A to 13-Jan-22 A, AIP for E&M works for Treatment Plant approval											
Preliminary Treatment (Mechanical)		206	01-Sep-21 A	28-Dec-21 A	18-Oct-22	18-Oct-22					01-Sep-21 A to 28-Dec-21 A, Preliminary Treatment (Mechanical)											
EM-2012	AIP for Preliminary Treatment (Mechanical) submission	206	01-Sep-21 A	05-Nov-21 A	18-Oct-22	18-Oct-22				0	01-Sep-21 A to 05-Nov-21 A, AIP for Preliminary Treatment (Mechanical) submission											
EM-3340	AIP for Preliminary Treatment (Mechanical) approval	21	06-Nov-21 A	28-Dec-21 A	18-Oct-22	18-Oct-22				0	06-Nov-21 A to 28-Dec-21 A, AIP for Preliminary Treatment (Mechanical) approval											
Secondary Treatment & Membrane Filtration		206	01-Sep-21 A	28-Dec-21 A	19-Mar-23	19-Mar-23					01-Sep-21 A to 28-Dec-21 A, Secondary Treatment & Membrane Filtration											
EM-2014	AIP for Secondary Treatment & Membrane Filtration submission	206	01-Sep-21 A	05-Nov-21 A	19-Mar-23	19-Mar-23				0	01-Sep-21 A to 05-Nov-21 A, AIP for Secondary Treatment & Membrane Filtration submission											
EM-3350	AIP for Secondary Treatment & Membrane Filtration approval	21	06-Nov-21 A	28-Dec-21 A	19-Mar-23	19-Mar-23				0	06-Nov-21 A to 28-Dec-21 A, AIP for Secondary Treatment & Membrane Filtration approval											
Sludge Treatment (Mechanical)		206	01-Sep-21 A	28-Dec-21 A	16-Feb-23	16-Feb-23					01-Sep-21 A to 28-Dec-21 A, Sludge Treatment (Mechanical)											
EM-2016	AIP for Sludge Treatment (Mechanical) submission	206	01-Sep-21 A	05-Nov-21 A	16-Feb-23	16-Feb-23				0	01-Sep-21 A to 05-Nov-21 A, AIP for Sludge Treatment (Mechanical) submission											
EM-3360	AIP for Sludge Treatment (Mechanical) approval	21	06-Nov-21 A	28-Dec-21 A	16-Feb-23	16-Feb-23				0	06-Nov-21 A to 28-Dec-21 A, AIP for Sludge Treatment (Mechanical) approval											
Dedourisation (Mechanical)		206	01-Sep-21 A	05-Jan-22 A	16-Feb-23	16-Feb-23					01-Sep-21 A to 05-Jan-22 A, Dedourisation (Mechanical)											
EM-2018	AIP for Dedourisation (Mechanical) submission	206	01-Sep-21 A	05-Nov-21 A	16-Feb-23	16-Feb-23				0	01-Sep-21 A to 05-Nov-21 A, AIP for Dedourisation (Mechanical) submission											
EM-3370	AIP for Dedourisation (Mechanical) approval	21	06-Nov-21 A	05-Jan-22 A	16-Feb-23	16-Feb-23				0	06-Nov-21 A to 05-Jan-22 A, AIP for Dedourisation (Mechanical) approval											
Electrical Power Supply		206	01-Sep-21 A	05-Jan-22 A	27-Apr-22	27-Apr-22					01-Sep-21 A to 05-Jan-22 A, Electrical Power Supply											
EM-2020	AIP for Electrical Power Supply submission	206	01-Sep-21 A	05-Nov-21 A	27-Apr-22	27-Apr-22				0	01-Sep-21 A to 05-Nov-21 A, AIP for Electrical Power Supply submission											
EM-3380	AIP for Electrical Power Supply approval	21	06-Nov-21 A	05-Jan-22 A	27-Apr-22	27-Apr-22				0	06-Nov-21 A to 05-Jan-22 A, AIP for Electrical Power Supply approval											
Control & Monitoring System		206	01-Sep-21 A	05-Jan-22 A	02-Dec-22	02-Dec-22					01-Sep-21 A to 05-Jan-22 A, Control & Monitoring System											
EM-2022	AIP for Control & Monitoring System submission	206	01-Sep-21 A	05-Nov-21 A	02-Dec-22	02-Dec-22				0	01-Sep-21 A to 05-Nov-21 A, AIP for Control & Monitoring System submission											
EM-3390	AIP for Control & Monitoring System approval	21	06-Nov-21 A	05-Jan-22 A	02-Dec-22	02-Dec-22				0	06-Nov-21 A to 05-Jan-22 A, AIP for Control & Monitoring System approval											
Building Service (MV, EL, FS, PD & ELV)		206	01-Sep-21 A	13-Jan-22 A	02-Dec-22	02-Dec-22					01-Sep-21 A to 13-Jan-22 A, Building Service (MV, EL, FS, PD & ELV)											
EM-2024	AIP for Building Service (MV, EL, FS, PD & ELV) submission	206	01-Sep-21 A	05-Nov-21 A	02-Dec-22	02-Dec-22				0	01-Sep-21 A to 05-Nov-21 A, AIP for Building Service (MV, EL, FS, PD & ELV) submission											
EM-3400	AIP for Building Service (MV, EL, FS, PD & ELV) approval	21	06-Nov-21 A	13-Jan-22 A	02-Dec-22	02-Dec-22				0	06-Nov-21 A to 13-Jan-22 A, AIP for Building Service (MV, EL, FS, PD & ELV) approval											
DDA		318	01-Mar-22	12-Jan-23	27-Apr-22	23-Sep-23			254		01-Mar-22 to 12-Jan-23, DDA											
DDA Submission		318	01-Mar-22	12-Jan-23	25-Jul-22	23-Sep-23			254		01-Mar-22 to 12-Jan-23, DDA Submission											
EM-3000	DDA for E&M works for Treatment Plant submission	297	01-Mar-22	22-Dec-22	25-Jul-22	17-May-23			146	30	01-Mar-22 to 22-Dec-22, DDA for E&M works for Treatment Plant submission											
EM-3550	DDA for E&M works for Treatment Plant approval	21	23-Dec-22	12-Jan-23	03-Sep-23	23-Sep-23			254	30	23-Dec-22 to 12-Jan-23, DDA for E&M works for Treatment Plant approval											

Summary
 Actual LOE
 Remaining LOE
 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone
 Crit Milestone
 Actual Milestone
 Project Baseline
 Baseline Milestone
 Start Constraint
 Finish Constraint
 No Predecessors
 No Successors

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Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works



Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Baseline Start	Baseline Finish	Total Float	Time Risk Allowance	2021 2022 2023 2024 2025 2026											
											Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Preliminary Treatment (Mechanical)		204	01-Mar-22	20-Sep-22	18-Oct-22	09-May-23			231		01-Mar-22 → 20-Sep-22, Preliminary Treatment (Mechanical)											
EM-3010	DDA for Preliminary Treatment (Mechanical) submission	183	01-Mar-22	30-Aug-22	18-Oct-22	18-Apr-23			231	0	mission											
EM-3410	DDA for Preliminary Treatment (Mechanical) approval	21	31-Aug-22	20-Sep-22	19-Apr-23	09-May-23			231	0	al) approval											
Secondary Treatment & Membrane Filtration (Mechanical)		189	01-Mar-22	05-Sep-22	19-Mar-23	23-Sep-23			383		01-Mar-22 → 05-Sep-22, Secondary Treatment & Membrane											
EM-3020	DDA for Secondary Treatment & Membrane Filtration (Mechanical) submission	168	01-Mar-22	15-Aug-22	19-Mar-23	02-Sep-23			383	0	sion											
EM-3420	DDA for Secondary Treatment & Membrane Filtration (Mechanical) approval	21	16-Aug-22	05-Sep-22	03-Sep-23	23-Sep-23			383	0) approval											
Sludge Treatment (Mechanical)		220	01-Mar-22	06-Oct-22	16-Feb-23	23-Sep-23			352		01-Mar-22 → 06-Oct-22, Sludge Treatment (Mechanical)											
EM-3030	DDA for Sludge Treatment (Mechanical) submission	199	01-Mar-22	15-Sep-22	16-Feb-23	02-Sep-23			352	0	sion											
EM-3430	DDA for Sludge Treatment (Mechanical) approval	21	16-Sep-22	06-Oct-22	03-Sep-23	23-Sep-23			352	0	cal) approval											
Deodorisation (Mechanical)		220	01-Mar-22	06-Oct-22	16-Feb-23	23-Sep-23			352		01-Mar-22 → 06-Oct-22, Deodorisation (Mechanical)											
EM-3040	DDA for Deodorisation (Mechanical) submission	199	01-Mar-22	15-Sep-22	16-Feb-23	02-Sep-23			352	0	sion											
EM-3440	DDA for Deodorisation (Mechanical) approval	21	16-Sep-22	06-Oct-22	03-Sep-23	23-Sep-23			352	0	cal) approval											
Electrical Power Supply System		265	01-Mar-22	20-Nov-22	27-Apr-22	16-Jan-23			57		01-Mar-22 → 20-Nov-22, Electrical Power Supply System											
EM-3050	DDA for Electrical Power Supply System submission	244	01-Mar-22	30-Oct-22	27-Apr-22	26-Dec-22			57	0	sion											
EM-3450	DDA for Electrical Power Supply System approval	21	31-Oct-22	20-Nov-22	26-Dec-22	16-Jan-23			57	0	stem approval											
UPS System		281	01-Mar-22	06-Dec-22	17-Dec-22	23-Sep-23			291		01-Mar-22 → 06-Dec-22, UPS System											
EM-3060	DDA for UPS System submission	260	01-Mar-22	15-Nov-22	17-Dec-22	02-Sep-23			291	0	sion											
EM-3460	DDA for UPS System approval	21	16-Nov-22	06-Dec-22	03-Sep-23	23-Sep-23			291	0	system approval											
Earthing and Lightning System		235	01-Mar-22	21-Oct-22	01-Feb-23	23-Sep-23			337		01-Mar-22 → 21-Oct-22, Earthing and Lightning System											
EM-3070	DDA for Earthing and Lightning System submission	214	01-Mar-22	30-Sep-22	01-Feb-23	02-Sep-23			337	0	sion											
EM-3470	DDA for Earthing and Lightning System approval	21	01-Oct-22	21-Oct-22	03-Sep-23	23-Sep-23			337	0	stem approval											
System Control Philosophy		265	01-Mar-22	20-Nov-22	02-Jan-23	23-Sep-23			307		01-Mar-22 → 20-Nov-22, System Control Philosophy											
EM-3080	DDA for System Control Philosophy submission	244	01-Mar-22	30-Oct-22	02-Jan-23	02-Sep-23			307	0	sion											
EM-3480	DDA for System Control Philosophy approval	21	31-Oct-22	20-Nov-22	03-Sep-23	23-Sep-23			307	0	ophy approval											
PLC & SCADA System		265	01-Mar-22	20-Nov-22	02-Jan-23	23-Sep-23			307		01-Mar-22 → 20-Nov-22, PLC & SCADA System											
EM-3090	DDA for PLC & SCADA System submission	244	01-Mar-22	30-Oct-22	02-Jan-23	02-Sep-23			307	0	sion											
EM-3490	DDA for PLC & SCADA System approval	21	31-Oct-22	20-Nov-22	03-Sep-23	23-Sep-23			307	0	system approval											
Building Service (MV)		296	01-Mar-22	21-Dec-22	02-Dec-22	23-Sep-23			276		01-Mar-22 → 21-Dec-22, Building Service (MV)											
EM-3100	DDA for Building Service (MV) submission	275	01-Mar-22	30-Nov-22	02-Dec-22	02-Sep-23			276	0	sion											
EM-3500	DDA for Building Service (MV) approval	21	01-Dec-22	21-Dec-22	03-Sep-23	23-Sep-23			276	0	e (MV) approval											
Building Service (EL)		281	01-Mar-22	06-Dec-22	17-Dec-22	23-Sep-23			291		01-Mar-22 → 06-Dec-22, Building Service (EL)											
EM-3110	DDA for Building Service (EL) submission	260	01-Mar-22	15-Nov-22	17-Dec-22	02-Sep-23			291	0	sion											
EM-3510	DDA for Building Service (EL) approval	21	16-Nov-22	06-Dec-22	03-Sep-23	23-Sep-23			291	0	e (EL) approval											
Building Service (FS)		281	01-Mar-22	06-Dec-22	17-Dec-22	23-Sep-23			291		01-Mar-22 → 06-Dec-22, Building Service (FS)											
EM-3120	DDA for Building Service (FS) submission	260	01-Mar-22	15-Nov-22	17-Dec-22	02-Sep-23			291	0	sion											
EM-3520	DDA for Building Service (FS) approval	21	16-Nov-22	06-Dec-22	03-Sep-23	23-Sep-23			291	0	e (FS) approval											

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 Actual LOE
 Remaining LOE
 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone
 Crit Milestone
 Actual Milestone
 Project Baseline
 Baseline Milestone
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 Finish Constraint
 No Predecessors
 No Successors

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Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Baseline Start	Baseline Finish	Total Float	Time Risk Allowance	2021 2022 2023 2024 2025 2026												
											Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Building Service (PD)												01-Mar-22 21-Dec-22 Building Service (PD)											
EM-3130	DDA for Building Service (PD) submission	275	01-Mar-22	30-Nov-22	02-Dec-22	02-Sep-23			276	0	Submission												
EM-3530	DDA for Building Service (PD) approval	21	01-Dec-22	21-Dec-22	03-Sep-23	23-Sep-23			276	0	Approval												
ELV System (CCTV, Access Control and Burglar)												01-Mar-22 21-Dec-22 ELV System (CCTV, Access Control and Burglar)											
EM-3140	DDA for ELV System (CCTV, Access Control and Burglar) submission	275	01-Mar-22	30-Nov-22	02-Dec-22	02-Sep-23			276	0	Submission												
EM-3540	DDA for ELV System (CCTV, Access Control and Burglar) approval	21	01-Dec-22	21-Dec-22	03-Sep-23	23-Sep-23			276	0	Approval												
Civil Requirement												13-Jan-22 A 02-Jun-23 Civil Requirement											
EM-2030	Civil Requirement for SSWTW foundation design (loading distribution, opening for plant mobilization) provided by ATAL	0	13-Jan-22 A		12-Mar-22					0	L												
EM-2040	Civil Requirement for SSWTW structure construction (CBWD,CSD) provided by ATAL	0	02-Jun-23		26-Oct-23				146	0	provided by ATAL												
Site Safety and Environmental Management												31-Mar-21 A 24-Jan-23 Site Safety and Environmental Management											
SU-2010	Prepare & Submit Sediment sampling and Test Plan SSTP to EPD-(diffuser works)	120	01-Mar-22	28-Jun-22	28-Feb-23	27-Jun-23	22-Jul-21	18-Nov-21	364	0	S												
SU-2020	Prepare, submit and approval of SQR and WDP by EPD-(diffuser works)	60	29-Jun-22	27-Aug-22	28-Jun-23	26-Aug-23	19-Nov-21	17-Jan-22	364	0	S												
SU-2030	Prepare, submit and approval of EP by EPD-(diffuser works)	60	28-Aug-22	26-Oct-22	27-Aug-23	25-Oct-23	18-Jan-22	18-Mar-22	364	0	S												
SU-2050	Prepare, submit and approval of MDN by Marine Dept-(diffuser works)	90	27-Oct-22	24-Jan-23	26-Oct-23	23-Jan-24	19-Mar-22	16-Jun-22	364	30	S												
SU-2060	Prepare, submit and approval of MDN by Marine Dept-(HDD's steel frame erection works)	60	07-Dec-21 A	04-Jan-22 A	28-Dec-21	28-Dec-21	16-Aug-21	13-Nov-21		30	S												
SU-2070	Prepare, submit and approval of Safety, Quality and Environmental Plan inc. slit curtain plan, phasing plan, WMP, etc	90	31-Mar-21 A	19-Nov-21 A	13-Dec-21	13-Dec-21	30-Mar-21	27-Jun-21		0	Prepare, submit and approval of Safety, Quality and Environmental Plan												
Construction works												01-Apr-21 A 24-Aug-26 Construction works											
CLP and UU coordination- by others												02-Aug-21 A 08-Sep-25 CLP and UU coordination- by others											
CLP-0000	CLP works	1090	02-Aug-21 A	08-Sep-25	02-Aug-21	27-Sep-25	17-Jul-21	26-Mar-25	17	0	S												
CLP-1000	Early Liaise with CLP and relative UU parties to obtain temp. Electricity and Temp. water	30	02-Aug-21 A	24-Sep-21 A	22-Dec-21	22-Dec-21	17-Jul-21	20-Aug-21		0	S												
CLP-1010	Obtain Temp. Electricity and Temp. water by others	30	25-Sep-21 A	28-Jan-22 A	22-Dec-21	22-Dec-21	21-Aug-21	15-Oct-21		0	S												
CLP-2000	Permanent Electricity coordination with CLP	180	05-Aug-21 A	09-Aug-22	28-Feb-23	09-Aug-23	17-Jul-21	21-Feb-22	297	0	S												
CLP-2010	CLP apply XP for new lay cable for the POSPS and SSWTP	182	10-Aug-22	18-Mar-23	10-Aug-23	18-Mar-24	22-Feb-22	30-Sep-22	297	0	S												
CLP-2020	CLP Cable laying for POSPS and SSWTP- by others	722	20-Mar-23	25-Aug-25	19-Mar-24	24-Aug-26	03-Oct-22	07-Mar-25	297	0	S												
CLP-3000	Early Liaise with CLP before the procurement of E&M equipment	180	01-Mar-22	07-Oct-22	27-Sep-23	08-May-24	17-Jul-21	07-Dec-21	470	60	S												
CLP-4000	Liaise with CLP to inspection the Transformer room after Related E&M works delivered on site-POSPS	60	05-Aug-21 A	19-May-22	14-Mar-25	04-Jun-25	28-Jan-23	12-Apr-23	903	0	S												
CLP-4010	Liaise with CLP to inspection the Transformer room after Related E&M works delivered on site-SSWTP	60	05-Aug-21 A	19-May-22	07-Mar-25	27-May-25	07-Jun-24	17-Aug-24	897	0	S												
CLP-4020	Installation of Transformer and final testing by CLP-POSPS	125	30-Aug-23	29-Jan-24	05-Jun-25	01-Nov-25	28-Apr-23	27-Oct-23	521	30	S												
CLP-4030	Installation of Transformer and final testing by CLP-SSWTP	104	08-May-25	08-Sep-25	28-May-25	27-Sep-25	24-Sep-24	26-Mar-25	17	30	S												
Section 1 Sewerage installation (Portion A, B1 & B2 / Area A, B1 & B2)												25-May-21 A 11-Oct-23 Section 1 Sewerage installation											
S1-1000	Section 1 Sewerage installation (Portion A, B1 & B2 / Area A, B1 & B2)	533	30-Jun-21 A	11-Oct-23	30-Jun-21	08-May-23	30-Jun-21	14-Apr-23	-129	0	S												
Trunk Sewers and Rising Mains Outside village and to POSPS (Area A)												30-Jun-21 A 11-Oct-23 Trunk Sewers and Rising Mains											
A-1000	TTA application for Area A (TTA with 24hrs permit)	60	30-Jun-21 A	19-Jan-22 A	22-Nov-21	22-Nov-21	30-Jun-21	08-Sep-21		0	S												
A-1010	Tree survey and site condition survey (upon site access) for Portion A	60	05-Jul-21 A	05-Oct-21 A	22-Nov-21	22-Nov-21	30-Jun-21	08-Sep-21		0	S												
A-1030	Construct Sewers, Rising mains at South Lantau Road : 8 no TTA, ~54 working days per TTA, total 432WD	432	03-May-22	11-Oct-23	22-Nov-21	08-May-23	29-Oct-21	02-Nov-22	-129	0	S												
A-1040	Construct Sewers, Rising mains at Chi Ma Wan Road : 8 no TTA, ~54 working days per TTA, total 432WD	432	01-Apr-22	13-Sep-23	22-Nov-21	08-May-23	29-Oct-21	02-Nov-22	-107	0	S												

Legend:

- Summary
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- Milestone
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- Baseline Milestone
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Associated Submarine Outfall and Pui O Sewerage Works



Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Baseline Start	Baseline Finish	Total Float	Time Risk Allowance	2021 2022 2023 2024 2025 2026											
											Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
SPS-7080	Application of FSI/314 for VAC System (by ATAL)	95	21-Sep-22	13-Jan-23	16-Jan-25	16-May-25			690	0	[Gantt bar: 21-Sep-22 to 13-Jan-23]											
SPS-7090	Application of FSI/314,501 for FSI (by ATAL)	0		28-Aug-24		24-Aug-26			591	0	[Gantt bar: 28-Aug-24 to 24-Aug-26]											
E&M Installation		415	18-Jan-23	15-Jun-24	21-Jan-25	01-Nov-25			411		[Gantt bar: 18-Jan-23 to 15-Jun-24]											
SPS-7102	Handover Date for Underground Earthing System	0		18-Jan-23		10-Apr-25			660	0	[Gantt bar: 18-Jan-23 to 10-Apr-25]											
SPS-7103	Handover Date for POSPS	0		30-Jun-23		10-Apr-25			530	0	[Gantt bar: 30-Jun-23 to 10-Apr-25]											
SPS-7104	Handover Date for CLP Transformer Room for BS Installation	0		29-Aug-23		28-Jan-25			422	0	[Gantt bar: 29-Aug-23 to 28-Jan-25]											
SPS-7110	E&M installation for Emergency tank	165	17-Oct-23	08-May-24	01-Mar-25	18-Sep-25			407	0	[Gantt bar: 17-Oct-23 to 08-May-24]											
SPS-7120	E&M installation for Coarse screen	165	27-Sep-23	19-Apr-24	01-Mar-25	18-Sep-25			422	0	[Gantt bar: 27-Sep-23 to 19-Apr-24]											
SPS-7130	E&M installation for Sewage lifting pump and its piping & fittings	165	27-Sep-23	19-Apr-24	01-Mar-25	18-Sep-25			422	0	[Gantt bar: 27-Sep-23 to 19-Apr-24]											
SPS-7140	E&M installation for Biotrickling filters and Activated carbon filter for deodorization system	165	27-Sep-23	19-Apr-24	01-Mar-25	18-Sep-25			422	0	[Gantt bar: 27-Sep-23 to 19-Apr-24]											
SPS-7150	E&M BS & ABWF installation for miscellaneous items, SAT	196	17-Oct-23	15-Jun-24	21-Jan-25	18-Sep-25			376	0	[Gantt bar: 17-Oct-23 to 15-Jun-24]											
SPS-7190	Installation of LV switchboard	26	30-Aug-23	28-Sep-23	11-Apr-25	16-May-25			480	0	[Gantt bar: 30-Aug-23 to 28-Sep-23]											
SPS-7200	BS Installation of CLP Transformer Room	24	30-Aug-23	26-Sep-23	14-Apr-25	16-May-25			482	0	[Gantt bar: 30-Aug-23 to 26-Sep-23]											
SPS-7210	Installation for Lifting Appliances	24	30-Aug-23	26-Sep-23	01-Feb-25	28-Feb-25			422	0	[Gantt bar: 30-Aug-23 to 26-Sep-23]											
SPS-7220	Installation of EL	163	30-Aug-23	15-Mar-24	15-Apr-25	01-Nov-25			483	0	[Gantt bar: 30-Aug-23 to 15-Mar-24]											
SPS-7230	Installation of BS	140	22-Dec-23	15-Jun-24	17-May-25	01-Nov-25			411	0	[Gantt bar: 22-Dec-23 to 15-Jun-24]											
Test and commissioning, SAT		156	17-Jun-24	19-Dec-24	19-Sep-25	28-Mar-26			376		[Gantt bar: 17-Jun-24 to 19-Dec-24]											
SPS-7245	Test and commissioning	61	17-Jun-24	27-Aug-24	03-Nov-25	14-Jan-26			411	0	[Gantt bar: 17-Jun-24 to 27-Aug-24]											
SPS-7250	FSD inspection	60	28-Aug-24	08-Nov-24	15-Jan-26	28-Mar-26			411	0	[Gantt bar: 28-Aug-24 to 08-Nov-24]											
SPS-7290	Landscaping works (tree planting 35nr, planting of green 287m2 approx. only)	156	17-Jun-24	19-Dec-24	19-Sep-25	28-Mar-26			376	0	[Gantt bar: 17-Jun-24 to 19-Dec-24]											
SSWSTW		1449	16-Aug-21 A	24-Aug-26	05-Oct-21	24-Aug-26	28-Jun-21	17-Jun-25	0		[Gantt bar: 16-Aug-21 to 24-Aug-26]											
Stage 1 Preparation works for HDD and SSWSTW		152	16-Aug-21 A	30-Apr-22	05-Oct-21	11-Mar-22	28-Jun-21	01-Sep-21	-39		[Gantt bar: 16-Aug-21 to 30-Apr-22]											
STW-1000	Initial site survey, condition survey, tree survey and corresponding consent for reports	46	16-Aug-21 A	05-Oct-21 A	05-Oct-21	05-Oct-21	28-Jun-21	20-Aug-21		0	[Gantt bar: 16-Aug-21 to 05-Oct-21]											
STW-1010	Mobilization of labours and plants (Existing Open Storage)	6	12-Jan-22 A	18-Jan-22 A	05-Oct-21	05-Oct-21	21-Aug-21	01-Sep-21		0	[Gantt bar: 12-Jan-22 to 18-Jan-22]											
STW-1014	Site clearance and existing hoarding dismantle (Existing Open Storage)	12	19-Jan-22 A	11-Feb-22 A	05-Oct-21	05-Oct-21				0	[Gantt bar: 19-Jan-22 to 11-Feb-22]											
STW-1016	Tree transplant for T392, T742, T751 & T758	42	05-Jan-22 A	02-Mar-22	28-Oct-21	29-Oct-21			-101	0	[Gantt bar: 05-Jan-22 to 02-Mar-22]											
STW-1018	Water barrier and temp. drain (HDD Area)	30	01-Mar-22	04-Apr-22	17-Nov-21	21-Dec-21			-84	0	[Gantt bar: 01-Mar-22 to 04-Apr-22]											
STW-1050	Trail pits and GI works (2 nos, 1wf, 7 days per drill) (inside the areas occupied by the HDD works)	20	25-Sep-21 A	30-Oct-21 A	08-Nov-21	08-Nov-21	13-Jul-21	30-Aug-21		0	[Gantt bar: 25-Sep-21 to 30-Oct-21]											
STW-1060	Remobilization GI works (5 nos, 2wf, 5 days per drill)	20	18-Nov-21 A	14-Dec-21 A	11-Jan-22	11-Jan-22				0	[Gantt bar: 18-Nov-21 to 14-Dec-21]											
STW-9930	Obtain Gi information to verify foundation design (Log and Testing in Lab)	30	15-Dec-21 A	30-Apr-22	11-Jan-22	11-Mar-22			-39	0	[Gantt bar: 15-Dec-21 to 30-Apr-22]											
Stage 2 Works outside HDD area		351	06-Apr-22	12-Jun-23	14-Jan-22	05-Sep-23	02-Sep-21	29-Nov-22	71		[Gantt bar: 06-Apr-22 to 12-Jun-23]											
STW-1020	Site Clearance, erection of hoarding and tree felling stage 2 (3528m2 on woodland & 239nr tree, 100m2/day and 4 nr/day)	98	06-Apr-22	04-Aug-22	14-Jan-22	17-May-22	02-Sep-21	29-Dec-21	-66	0	[Gantt bar: 06-Apr-22 to 04-Aug-22]											
STW-2000	Site formation (Area not affected by HDD) (approx.2150m3, 50m3/day)	43	05-Aug-22	24-Sep-22	18-May-22	08-Jul-22	30-Dec-21	24-Feb-22	-66	0	[Gantt bar: 05-Aug-22 to 24-Sep-22]											
STW-2010	Sheetpile (Area not affected by HDD) (approx.3600m2, 50m2/day)	72	26-Sep-22	20-Dec-22	20-Feb-23	19-May-23	25-Feb-22	30-May-22	119	0	[Gantt bar: 26-Sep-22 to 20-Dec-22]											
STW-2015	Soil nail and slope modification works for feature 14NW-A/C97 & 14NW-A/C98 (200 nos & 171 nos)	124	26-Sep-22	24-Feb-23	06-Aug-22	03-Jan-23	25-Feb-22	27-Jul-22	-42	0	[Gantt bar: 26-Sep-22 to 24-Feb-23]											
STW-2020	Predrill works (Area not affected by HDD, approx. 11nos, 4day/nos, 1wf)	44	30-Nov-22	21-Jan-23	09-Jul-22	29-Aug-22	25-Feb-22	13-Apr-22	-120	0	[Gantt bar: 30-Nov-22 to 21-Jan-23]											

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Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Baseline Start	Baseline Finish	Total Float	Time Risk Allowance	Gantt Chart											
											2021	2022			2023			2024			2025	
STW-2030	Piling works (Approx. 36% of Building 1 piles, 64 nos, 3.5d per pile, 2wf) [outside HDDarea]	112	26-Jan-23	12-Jun-23	30-Aug-22	12-Jan-23	16-Jul-22	29-Nov-22	-120	0	[Gantt Chart: Piling works (outside HDDarea)]											
STW-2050	Construct Retaining Wall [outside HDDarea]	90	21-Dec-22	14-Apr-23	20-May-23	05-Sep-23	31-May-22	15-Sep-22	119	0	[Gantt Chart: Construct Retaining Wall (outside HDDarea)]											
Stage 3-5 Construction of Foundation		331	03-Jun-23	13-Jul-24	04-Jan-23	15-Feb-24	30-Nov-22	13-Jan-24	-120		[Gantt Chart: Stage 3-5 Construction of Foundation]											
STW-3005	Predrill works (occupied by the HDD) (approx. 27 nos, 4day/nos, 2wf) (after HDD)	54	03-Jun-23	07-Aug-23	04-Jan-23	10-Mar-23			-120	0	[Gantt Chart: Predrill works (after HDD)]											
STW-3010	Piling works inside the areas occupied by the HDD subcontractor (114 + 21 nos socket-H piles, 3.5D/pile, 3wf) (after HDD)	158	13-Jun-23	19-Dec-23	13-Jan-23	28-Jul-23	30-Nov-22	23-Jun-23	-120	0	[Gantt Chart: Piling works inside HDD areas]											
STW-3020	Piling testing	21	20-Dec-23	16-Jan-24	12-Aug-23	05-Sep-23	24-Jun-23	19-Jul-23	-108	0	[Gantt Chart: Piling testing]											
STW-3023	Proof drill (2 nos, 1wf, 4 days per drill) and report	15	20-Dec-23	09-Jan-24	19-Aug-23	05-Sep-23			-102	0	[Gantt Chart: Proof drill and report]											
STW-3025	OW and DW installation and pumping test	54	25-Nov-23	30-Jan-24	05-Jul-23	05-Sep-23	02-Jun-23	05-Aug-23	-120	0	[Gantt Chart: OW and DW installation and pumping test]											
STW-3030	ELS stage 1 for partial pile cap construction (approx.16240m3, 406m3/day)	40	31-Jan-24	19-Mar-24	06-Sep-23	25-Oct-23	07-Aug-23	21-Sep-23	-120	0	[Gantt Chart: ELS stage 1 for partial pile cap construction]											
STW-3040	Construction of partial pile cap (approx. 580m3, concrete 100m3/day)	27	20-Mar-24	24-Apr-24	26-Oct-23	25-Nov-23	22-Sep-23	26-Oct-23	-120	0	[Gantt Chart: Construction of partial pile cap]											
STW-3045	Tower crane erection	6	25-Apr-24	02-May-24	07-Feb-24	15-Feb-24	27-Oct-23	02-Nov-23	-61	0	[Gantt Chart: Tower crane erection]											
STW-3050	ELS stage 2 and structing for remaining underground structure (approx.6960m3, 316m3/day, 12d/layer)	65	25-Apr-24	13-Jul-24	27-Nov-23	15-Feb-24	27-Oct-23	13-Jan-24	-120	0	[Gantt Chart: ELS stage 2 and structing for remaining underground structure]											
Stage 6-8 Construction of Structure		327	15-Jul-24	19-Aug-25	16-Feb-24	04-May-26	15-Jan-24	23-Jan-25	209		[Gantt Chart: Stage 6-8 Construction of Structure]											
STW-6000	Construction of remaining underground structure (approx.3730m3, concrete 200m3/wk structing 12day/ layer approx. only)	135	15-Jul-24	21-Dec-24	16-Feb-24	31-Jul-24	15-Jan-24	29-Jun-24	-120	0	[Gantt Chart: Construction of remaining underground structure]											
STW-6010	Backfilling works for construction of retaining wall	27	23-Dec-24	25-Jan-25	15-Jan-26	14-Feb-26	02-Jul-24	01-Aug-24	314	0	[Gantt Chart: Backfilling works for construction of retaining wall]											
STW-6020	Construction of retaining wall (approx.640m3, concrete 150m3/wk)	30	23-Dec-24	01-Feb-25	01-Aug-24	04-Sep-24	02-Jul-24	05-Aug-24	-120	0	[Gantt Chart: Construction of retaining wall]											
STW-6030	Backfill works to ground level	10	03-Feb-25	13-Feb-25	16-Feb-26	02-Mar-26	06-Aug-24	16-Aug-24	311	0	[Gantt Chart: Backfill works to ground level]											
STW-6035	Sheetpiles extraction	50	14-Feb-25	14-Apr-25	03-Mar-26	04-May-26	17-Aug-24	17-Oct-24	311	0	[Gantt Chart: Sheetpiles extraction]											
STW-6040	Construction of superstructure (approx.3878m3, concrete 200m3/wk)	135	03-Feb-25	18-Jul-25	05-Sep-24	19-Feb-25	06-Aug-24	16-Jan-25	-120	0	[Gantt Chart: Construction of superstructure]											
STW-6050	Tower crane removal	6	19-Jul-25	25-Jul-25	09-Dec-25	15-Dec-25	17-Jan-25	23-Jan-25	119	0	[Gantt Chart: Tower crane removal]											
STW-6060	Remaining RC works after tower crane removal	21	26-Jul-25	19-Aug-25	16-Dec-25	10-Jan-26			119	0	[Gantt Chart: Remaining RC works after tower crane removal]											
Stage 9-10 E&M, ABWF, T&C		1169	12-Sep-22	24-Aug-26	07-Nov-22	24-Aug-26	17-Jan-25	17-Jun-25	0		[Gantt Chart: Stage 9-10 E&M, ABWF, T&C]											
Statutory Submission & Approval		1066	12-Sep-22	16-Apr-26	07-Nov-22	24-Aug-26			108		[Gantt Chart: Statutory Submission & Approval]											
STW-7480	Power Meter Application	148	12-Sep-22	10-Mar-23	07-Nov-22	09-May-23			46	0	[Gantt Chart: Power Meter Application]											
STW-7490	EPD- Discharge License (by ATAL)	240	12-Sep-24	08-Jul-25	22-Mar-25	10-Jan-26			155	0	[Gantt Chart: EPD- Discharge License (by ATAL)]											
STW-7500	Application of Megalink for SCADA	167	13-Dec-22	10-Jul-23	06-Aug-24	26-Feb-25			487	0	[Gantt Chart: Application of Megalink for SCADA]											
STW-7510	Application of Direct link for FS	143	07-Dec-22	03-Jun-23	03-Mar-26	24-Aug-26			959	0	[Gantt Chart: Application of Direct link for FS]											
STW-7520	Application of WWO132 Water Connection (by Binnies)	146	13-Jan-23	14-Jul-23	27-Feb-26	24-Aug-26			926	0	[Gantt Chart: Application of WWO132 Water Connection (by Binnies)]											
STW-7530	Application of WWO542 for Plumbing & FS (by ATAL)	146	13-Jan-23	14-Jul-23	27-Feb-26	24-Aug-26			926	0	[Gantt Chart: Application of WWO542 for Plumbing & FS (by ATAL)]											
STW-7540	Approval of WWO046 Part 1 & 2 (by Binnies)	0		06-Sep-25		10-Jan-26			103	0	[Gantt Chart: Approval of WWO046 Part 1 & 2 (by Binnies)]											
STW-7550	Application of WWO046 Part 3 & 4 & 5 (by ATAL)	366	17-Jun-24	06-Sep-25	19-Oct-24	10-Jan-26			103	0	[Gantt Chart: Application of WWO046 Part 3 & 4 & 5 (by ATAL)]											
STW-7560	Approval of General Building Plan (by Binnies)	0		28-Nov-22		10-Jan-26			926	0	[Gantt Chart: Approval of General Building Plan (by Binnies)]											
STW-7570	Application of FSI/314 for VAC System (by ATAL)	97	14-Feb-24	13-Jun-24	15-Sep-25	10-Jan-26			471	0	[Gantt Chart: Application of FSI/314 for VAC System (by ATAL)]											
STW-7580	Application of FSI/314,501 for FSI (by ATAL)	0	16-Apr-26	16-Apr-26	28-Mar-26	28-Mar-26			-12	0	[Gantt Chart: Application of FSI/314,501 for FSI (by ATAL)]											
Equipment Procurement, Delivery		677	21-Sep-22	30-Dec-24	10-May-23	27-May-25			117		[Gantt Chart: Equipment Procurement, Delivery]											
STW-7000	LV switchboard procurement	297	21-Nov-22	20-Nov-23	10-May-23	08-May-24			136	0	[Gantt Chart: LV switchboard procurement]											

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 Remaining Work

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											Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
HDD-1720	Tripping out drill pipe	2	02-Mar-23	03-Mar-23	07-Oct-22	08-Oct-22			-120	0	Tripping out drill pipe											
HDD-1730	Reaming (from sea to land)	24	04-Mar-23	31-Mar-23	10-Oct-22	05-Nov-22			-120	0	Reaming (from sea to land)											
HDD-1740	Cleaning the drill hole during reaming process	4	01-Apr-23	06-Apr-23	07-Nov-22	10-Nov-22			-120	0	Cleaning the drill hole during reaming process											
Intersection (HDD Rig 1&2)		63	21-Feb-23	10-May-23	26-Sep-22	09-Dec-22			-120		21-Feb-23, 10-May-23, Intersection (HDD Rig 1&2)											
HDD-1550	Punch Out (i.e. Pilot hole intersecting)	8	21-Feb-23	01-Mar-23	26-Sep-22	06-Oct-22			-120	0	Punch Out (i.e. Pilot hole intersecting)											
HDD-1560	Hole gauging and smoothing (from sea to land)	25	11-Apr-23	10-May-23	11-Nov-22	09-Dec-22			-120	0	Hole gauging and smoothing (from sea to land)											
PE pipe installation (HDD Rig 1)		36	11-Apr-23	23-May-23	11-Nov-22	22-Dec-22			-120		11-Apr-23, 23-May-23, PE pipe installation (HDD Rig 1)											
HDD-1580	PE pipe connection	25	11-Apr-23	10-May-23	11-Nov-22	09-Dec-22			-120	0	PE pipe connection											
HDD-1590	PE pipe pulling (from sea to land)	11	11-May-23	23-May-23	10-Dec-22	22-Dec-22			-120	0	PE pipe pulling (from sea to land)											
Testing and demolition		8	24-May-23	02-Jun-23	23-Dec-22	23-Apr-24			265		24-May-23, 02-Jun-23, Testing and demolition											
HDD-1750	2nd PE Pipe testing after pulling works	6	24-May-23	31-May-23	15-Apr-24	20-Apr-24			265	0	2nd PE Pipe testing after pulling works											
HDD-1760	Demobilization of HDD equipments and plants (land side)	8	24-May-23	02-Jun-23	23-Dec-22	03-Jan-23			-120	0	Demobilization of HDD equipments and plants (land side)											
HDD-1770	Pack up anchor and working barge left	2	01-Jun-23	02-Jun-23	22-Apr-24	23-Apr-24			265	0	Pack up anchor and working barge left											
Diffuser		181	04-Mar-23	12-Oct-23	24-Jan-24	02-Sep-24	26-Jul-22	04-Mar-23	265		04-Mar-23, 12-Oct-23, Diffuser											
Off Shore [Sea]		181	04-Mar-23	12-Oct-23	24-Jan-24	02-Sep-24	26-Jul-22	04-Mar-23	265		04-Mar-23, 12-Oct-23, Off Shore [Sea]											
DIFF-2000	Fabricate diffuser manifolds and deliver to site (2nos)	72	04-Mar-23	02-Jun-23	24-Jan-24	23-Apr-24	26-Jul-22	20-Oct-22	265	0	Fabricate diffuser manifolds and deliver to site (2nos)											
DIFF-2010	Mobilization and install silt curtain for diffuser works	12	03-Jun-23	16-Jun-23	24-Apr-24	08-May-24			265	0	Mobilization and install silt curtain for diffuser works											
DIFF-2020	Dredge diffuser trench (approx. 1500 m3)	36	17-Jun-23	31-Jul-23	09-May-24	21-Jun-24	07-Nov-22	17-Dec-22	265	0	Dredge diffuser trench (approx. 1500 m3)											
DIFF-2030	Remove mooring piles, casing guide piles by derrick lighter and cut casing together with HDD pipe	12	01-Aug-23	14-Aug-23	22-Jun-24	06-Jul-24	19-Dec-22	03-Jan-23	265	0	Remove mooring piles, casing guide piles by derrick lighter and cut casing together with HDD pipe											
DIFF-2040	Prepare 25mm gravel bedding in trench and install diffuser manifold to joint to HDD pipes	13	15-Aug-23	29-Aug-23	08-Jul-24	22-Jul-24	04-Jan-23	18-Jan-23	265	0	Prepare 25mm gravel bedding in trench and install diffuser manifold to joint to HDD pipes											
DIFF-2050	Backfill 25mm gravel to existing seabed level (approx. 1335m3)	24	30-Aug-23	26-Sep-23	23-Jul-24	19-Aug-24	19-Jan-23	18-Feb-23	265	0	Backfill 25mm gravel to existing seabed level (approx. 1335m3)											
DIFF-2060	Install concrete anchor block, class 1 marker buoy and removal of silt curtain together with demobilization works	12	27-Sep-23	12-Oct-23	20-Aug-24	02-Sep-24	20-Feb-23	04-Mar-23	265	0	Install concrete anchor block, class 1 marker buoy and removal of silt curtain together with demobilization works											
Remaining Trunk Sewers, Rising Mains & Emergency Discharge Pipe		1288	02-Nov-21 A	01-Apr-26	01-Aug-23	24-Aug-26	13-Sep-22	06-Aug-25	117		02-Nov-21 A, 01-Apr-26, 01-Aug-23, 24-Aug-26, 13-Sep-22, 06-Aug-25											
R-1000	Remaining Truck Sewers, Rising Mains & Emergency Discharge Pipe	942	01-Mar-22	03-May-25	21-Mar-26	21-Mar-26	13-Sep-22	06-Aug-25	265	0	01-Mar-22, 03-May-25, 21-Mar-26, 21-Mar-26, 13-Sep-22, 06-Aug-25											
Portion C1 / SSWTW Section		582	02-Nov-21 A	15-Nov-23	04-Dec-23	24-Aug-26	15-Nov-22	18-Jun-24	823		02-Nov-21 A, 15-Nov-23, 04-Dec-23, 24-Aug-26, 15-Nov-22, 18-Jun-24											
C1-1000	TTA application for Portion C1/ SSWTW Section (Plan ID 1303703) (TTA with 24hrs permit)	240	02-Nov-21 A	16-Jul-22	04-Dec-23	22-Apr-24	15-Nov-22	06-Mar-23	525	0	02-Nov-21 A, 16-Jul-22, 04-Dec-23, 22-Apr-24, 15-Nov-22, 06-Mar-23											
C1-1010	Excavation, construction of rising main together with backfill and testing (approx. 173m, 1wf)	110	18-Jul-22	25-Nov-22	23-Apr-24	02-Sep-24	07-Mar-23	13-Jul-23	525	0	18-Jul-22, 25-Nov-22, 23-Apr-24, 02-Sep-24, 07-Mar-23, 13-Jul-23											
C1-1020	Excavation, sewer laying, construction of manhole together with backfill and testing (approx. 343m, 8mh, 1wf)	288	26-Nov-22	15-Nov-23	05-Sep-25	24-Aug-26	14-Jul-23	18-Jun-24	823	0	26-Nov-22, 15-Nov-23, 05-Sep-25, 24-Aug-26, 14-Jul-23, 18-Jun-24											
Portion C1 / Lo Wai Tsuen Section		864	02-Nov-21 A	28-Oct-24	01-Aug-23	28-Mar-26	13-Sep-22	27-May-25	421		02-Nov-21 A, 28-Oct-24, 01-Aug-23, 28-Mar-26, 13-Sep-22, 27-May-25											
C3-1000	TTA application for Portion C1/ Lo Wai Tsuen Section (Plan ID 1303702) (TTA with 24hrs permit)	240	02-Nov-21 A	16-Jul-22	01-Aug-23	12-Dec-23	13-Sep-22	08-Feb-23	421	0	02-Nov-21 A, 16-Jul-22, 01-Aug-23, 12-Dec-23, 13-Sep-22, 08-Feb-23											
C3-1010	Excavation, sewer laying, construction of manhole together with backfill and testing (approx. 751m, 28mh, 1wf)	680	18-Jul-22	28-Oct-24	13-Dec-23	28-Mar-26	09-Feb-23	27-May-25	421	0	18-Jul-22, 28-Oct-24, 13-Dec-23, 28-Mar-26, 09-Feb-23, 27-May-25											
Portion C1, C2 / Remain Section		647	23-Nov-23	26-Jan-26	24-Jan-24	28-Mar-26	15-Nov-22	24-Jan-25	50		23-Nov-23, 26-Jan-26, 24-Jan-24, 28-Mar-26, 15-Nov-22, 24-Jan-25											
C2-1000	TTA application for Portion C1, C2 Remain Section (Plan ID 1307099, 1307120, 1307306) (TTA with 24hrs permit)	30	23-Nov-23	29-Dec-23	24-Jan-24	29-Feb-24	15-Nov-22	06-Mar-23	50	0	23-Nov-23, 29-Dec-23, 24-Jan-24, 29-Feb-24, 15-Nov-22, 06-Mar-23											
C2-1010	Excavation, construction of rising main together with backfill and testing (approx. 353m, 3wf)	321	30-Dec-23	27-Jan-25	01-Mar-24	29-Mar-25	07-Mar-23	26-Jan-24	50	0	30-Dec-23, 27-Jan-25, 01-Mar-24, 29-Mar-25, 07-Mar-23, 26-Jan-24											
C2-1020	Excavation, sewer laying, construction of manhole together with backfill and testing (approx. 223m, 8mh, 3wf)	296	28-Jan-25	26-Jan-26	31-Mar-25	28-Mar-26	27-Jan-24	24-Jan-25	50	0	28-Jan-25, 26-Jan-26, 31-Mar-25, 28-Mar-26, 27-Jan-24, 24-Jan-25											
Portion C2 / Plan ID 1303704		596	02-Apr-24	01-Apr-26	26-Mar-24	28-Mar-26			-3		02-Apr-24, 01-Apr-26, 26-Mar-24, 28-Mar-26											

Summary
 Actual LOE
 Remaining LOE
 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone
 Crit Milestone
 Actual Milestone
 Project Baseline
 Baseline Milestone
 Start Constraint
 Finish Constraint
 No Predecessors
 No Successors

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Contract No. DC/2020/02
Construction of San Shek Wan Sewage Treatment Works,
Associated Submarine Outfall and Pui O Sewerage Works



Activity ID	Activity Name	Original Duration	Start	Finish	Late Start	Late Finish	Baseline Start	Baseline Finish	Total Float	Time Risk Allowance	Gantt Chart											
											2021	2022	2023	2024	2025	2026						
C2-1060	TTA application for Portion C2 btw SSWSTW and Lo Uk (Plan ID 1303704) (TTA with 24hrs permit)	30	02-Apr-24	08-May-24	26-Mar-24	04-May-24			-3	0	704) (TTA with 24hrs permit)											
C2-1062	Excavation, sewer laying, construction of manhole together with backfill and testing (approx.100m, 4mh, 1wf)	566	09-May-24	01-Apr-26	06-May-24	28-Mar-26			-3	0	sting (approx 100m, 4mh, 1wf)											
Area E & Emergency Discharge Pipe		466	13-Oct-23	12-May-25	03-Sep-24	28-Mar-26	06-Mar-23	27-Sep-24	265		13-Oct-23 12-May-25, Area											
E-1000	Excavation, sewer laying, construction of manhole, backfill and testing (approx.600m 11mh, 1wf) (After C1)	400	13-Oct-23	17-Feb-25	03-Sep-24	07-Jan-26	06-Mar-23	11-Jul-24	265	0	1wf) (After C1)											
E-1010	Excavation, construction of rising main together with backfill and testing	51	13-Oct-23	12-Dec-23	07-Nov-25	07-Jan-26	06-Mar-23	09-May-23	614	0	backfill and testing											
E-1015	Mobilization and install silt curtain for emergency discharge pipe	12	04-Feb-25	17-Feb-25	23-Dec-25	07-Jan-26			265	0	silt curtain for emergency discharge pipe											
E-1020	Construction of outfall structure - Excavation & preparation of formation	24	18-Feb-25	17-Mar-25	08-Jan-26	04-Feb-26	12-Jul-24	08-Aug-24	265	0	excavation & preparation of formation											
E-1030	Construction of outfall structure - Levelling layer & installation of precast outfall	12	18-Mar-25	31-Mar-25	05-Feb-26	21-Feb-26	09-Aug-24	22-Aug-24	265	0	layer & installation of precast outfall											
E-1040	Construction of outfall structure - Construction of pipe insert with concrete surround	12	01-Apr-25	15-Apr-25	23-Feb-26	07-Mar-26	23-Aug-24	05-Sep-24	265	0	pipe insert with concrete surround											
E-1050	Construction of outfall structure - Backfilling & reinstatement of existing ground profile	12	16-Apr-25	03-May-25	09-Mar-26	21-Mar-26	06-Sep-24	20-Sep-24	265	0	statement of existing ground profile											
E-1060	Construction of outfall structure - Demobilization	6	06-May-25	12-May-25	23-Mar-26	28-Mar-26	21-Sep-24	27-Sep-24	265	0	on of outfall structure - Demobilization											
Section 4 MIC site office		158	01-Apr-21 A	11-Dec-21 A	28-Mar-26	28-Mar-26	01-Apr-21	01-Apr-21			11-Dec-21 A, Section 4 MIC site office											
Site Accommodation		158	01-Apr-21 A	11-Dec-21 A	28-Mar-26	28-Mar-26	01-Apr-21	01-Apr-21			11-Dec-21 A, Site Accommodation											
MIC-1000	Access date for site accommodation (Location subject to PM's instruction)	0	01-Apr-21 A		28-Mar-26		01-Apr-21			0	Access date for site accommodation (Location subject to PM's in											
MIC-3130	Site survey, leveling and setting out works	1	05-Jul-21 A	09-Jul-21 A	28-Mar-26	28-Mar-26				0	Site survey, leveling and setting out works											
MIC-3260	Substantial completion for MIC accommodation	0		29-Sep-21 A		28-Mar-26				0	Substantial completion for MIC accommodation											
MIC-3270	Completion for MIC accommodation	0		29-Sep-21 A		28-Mar-26				0	Completion for MIC accommodation											
MIC Site Accomodation by Techoy		128	19-Jun-21 A	30-Nov-21 A	28-Mar-26	28-Mar-26					30-Nov-21 A, MIC Site Accomodation by Techoy											
MIC-3010	Manufacture MIC unit in Yard Including Factory Inspection [Insufficient mains electricity supply in China]	30	19-Jun-21 A	27-Aug-21 A	28-Mar-26	28-Mar-26				0	Manufacture MIC unit in Yard Including Factory Inspection [
MIC-3020	Delivery of MIC Unit to Site (1st Batch) 12 out of 52 modules	3	24-Jul-21 A	31-Jul-21 A	28-Mar-26	28-Mar-26				0	Delivery of MIC Unit to Site (1st Batch) 12 out of 52 modules											
MIC-3030	Delivery of MIC Unit to Site (2nd Batch) 20 out of 52 modules	3	02-Aug-21 A	10-Aug-21 A	28-Mar-26	28-Mar-26				0	Delivery of MIC Unit to Site (2nd Batch) 20 out of 52 module											
MIC-3040	Delivery of MIC Unit to Site (3rd Batch) 20 out of 52 modules	3	23-Aug-21 A	31-Aug-21 A	28-Mar-26	28-Mar-26				0	Delivery of MIC Unit to Site (3rd Batch) 20 out of 52 module											
MIC-3050	Concreting of Footing & On-grade (150m3, 0.3m thk.)	6	12-Jul-21 A	21-Jul-21 A	28-Mar-26	28-Mar-26				0	Concreting of Footing & On-grade (150m3, 0.3m thk.)											
MIC-3055	Installation of MIC Office on Site (Including Touch up of Partion, Door, Window, Glass Panes & Finishing)	26	24-Jul-21 A	20-Sep-21 A	28-Mar-26	28-Mar-26				0	Installation of MIC Office on Site (Including Touch up of Par											
MIC-3060	Installation of E&M, Drianage & Fitting Works and other Necessary Works for Construction of MIC Office	24	16-Aug-21 A	28-Sep-21 A	28-Mar-26	28-Mar-26				0	Installation of E&M, Drianage & Fitting Works and other Ne											
MIC-3070	Installation of Cat Ladder	5	01-Sep-21 A	06-Sep-21 A	28-Mar-26	28-Mar-26				0	Installation of Cat Ladder											
MIC-3080	Testing and Commissioning (T&C)	3	21-Sep-21 A	28-Sep-21 A	28-Mar-26	28-Mar-26				0	Testing and Commissioning (T&C)											
MIC-3090	Pratical Completion	0	29-Sep-21 A	29-Sep-21 A	28-Mar-26	28-Mar-26				0	Pratical Completion											
MIC-3100	Defect Rectification	6	30-Sep-21 A	30-Nov-21 A	28-Mar-26	28-Mar-26				0	Defect Rectification											
MIC-3105	Furniture, Fixtures, and Equipment	5	20-Sep-21 A	28-Sep-21 A	28-Mar-26	28-Mar-26				0	Furniture, Fixtures, and Equipment											
MIC-3110	Cleaning & Handover	1	30-Nov-21 A	30-Nov-21 A	28-Mar-26	28-Mar-26				0	Cleaning & Handover											
Civil Works at Site Office		158	17-May-21 A	11-Dec-21 A	28-Mar-26	28-Mar-26					11-Dec-21 A, Civil Works at Site Office											
MIC-3160	Sublet civil works at site office package	12	17-May-21 A	01-Jun-21 A	28-Mar-26	28-Mar-26				0	Sublet civil works at site office package											
MIC-3250	Procurement and delivery of project sign board	35	27-Sep-21 A	30-Nov-21 A	28-Mar-26	28-Mar-26				0	Procurement and delivery of project sign board											
Stage 1 - For site office footing		11	09-Jun-21 A	10-Jul-21 A	28-Mar-26	28-Mar-26					10-Jul-21 A, Stage 1 - For site office footing											
MIC-3120	Site clearance, remove existing chain link fence (90m) and 500mm high dwarf wall (20m)	11	09-Jun-21 A	19-Jun-21 A	28-Mar-26	28-Mar-26				0	Site clearance, remove existing chain link fence (90m) and 50											

Summary
 Actual LOE
 Remaining LOE
 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone
 Crit Milestone
 Actual Milestone
 Project Baseline
 Baseline Milestone
 Start Constraint
 Finish Constraint
 No Predecessors
 No Successors

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Appendix F – Communication

Schedule of Meeting:

Date	Meeting (refer to the meeting minutes)
25 May 2021	第一次大嶼山南區鄉事委員會聯絡會議
10 Jul 2021	第一次羅屋村會議會議
15 Jul 2021	第二次大嶼山南區鄉事委員會聯絡會議
10 Aug 2021	第二次羅屋村會議會議
17 Aug 2021	第一次咸田村及拾壆村聯絡會議會議
16 Nov 2021	第一次杯澳公立學校臨時交通管制聯絡會議會議

工程合約編號: DC/2020/02		
磧石灣污水處理廠及相關海底排放管道建造工程 及貝澳污水收集系統工程 第一次大嶼山南區鄉事委員會聯絡會議記錄		
日期: 2021 年 5 月 25 日		
時間: 上午 11 時至中午 12 時		
地點: 大嶼山貝澳大嶼山南區鄉事委員會辦事處會議室		
出席者:		
何進輝先生	大嶼山南區鄉事委員會	主席
張蓮壽先生	大嶼山南區鄉事委員會	首副主席
何德輝先生	大嶼山南區鄉事委員會	副主席
陳華國先生	大嶼山南區鄉事委員會	委員
范少偉先生	大嶼山南區鄉事委員會	委員
劉文定先生	大嶼山南區鄉事委員會	委員
黎洛文先生	大嶼山南區鄉事委員會	委員
張達強先生	大嶼山南區鄉事委員會	委員
何樹來先生	大嶼山南區鄉事委員會	委員
張劍強先生	大嶼山南區鄉事委員會	委員
張子健先生	大嶼山南區鄉事委員會	委員
楊愛蓮女士	大嶼山南區鄉事委員會	委員
吳惠陽先生	大嶼山南區鄉事委員會	大鴉洲-居民代表
陳子和先生	大嶼山南區鄉事委員會	長沙下-居民代表
張勁之先生	大嶼山南區鄉事委員會	咸田-居民代表
溫東日先生	大嶼山南區鄉事委員會	老圍-居民代表
羅國超先生	大嶼山南區鄉事委員會	羅屋-居民代表
梁家麒先生	渠務署特別職務部	高級工程師
陳冠聲先生	渠務署特別職務部	工程師
杜偉明先生	地政總署離島地政處	高級地政主任
張信揚先生	賓尼斯工程顧問有限公司	駐工地總工程師
翟耀斌先生	賓尼斯工程顧問有限公司	駐工地工程師
梁俊豪先生	賓尼斯工程顧問有限公司	工程師
周穎淳小姐	賓尼斯工程顧問有限公司	助理工程師
謝國洲先生	群利 - 俊和聯營體(承建商)	地盤主管
石偉明先生	群利 - 俊和聯營體(承建商)	副地盤主管

會議內容：

- 1 渠務署向大嶼山南區鄉事委員會主席、副主席及各居民代表問安，並感謝其出席是次會議，簡介「礮石灣污水處理廠及相關海底排放管道建造工程及貝澳污水收集系統工程」。
- 2 承建商群利俊和聯營及工程團隊代表，與大嶼山南區鄉事委員會及有關居民代表簡介工程背景及概覽，以及貝澳村附近一帶將進行的工程項目。
- 3 大嶼山南區鄉事委員會及有關居民代表在是次會議中，但向工程團隊表達了以下關注及訴求：
 - 3.1 委員會及有關居民代表關注排污渠對在附近海域作業漁船的潛在影響。工程團隊表示，新建的海底排放管排水口將位於貝澳灣離岸約 1.1 公里的海床下，工程會於排水口擴散器附近架設海上浮標，以便漁船確定該排水口擴散器的位置。
 - 3.2 委員會及有關居民代表指出水務署將會在大嶼山進行水管鋪設工程，要求本工程合約與水務署的相關工程互相配合，並建議考慮使用無坑鋪管的施工方案，以減少對南大嶼山交通的影響。工程團隊會考慮有關的建議並與水務署工程團隊緊密聯繫，務求減少對居民的影響。
 - 3.3 委員會及有關居民代表表示芝麻灣道為通向鹹田及十壆的主要通道，希望工程期間保持車輛行駛，並希望本工程合約可以一併對芝麻灣道進行擴闊工程。工程團隊對擴闊芝麻灣道之要求表示理解，但表明此建議是本工程合約範圍以外的工程，工程團隊會在施工期間盡可能保留通道，以供村民及車輛進出。
 - 3.4 委員會及有關居民代表指出本工程合約內的貝澳泵房位置將位於義塚附近，提醒工程團隊在挖掘工程時要特別小心，如有任何發現需儘快通知居民代表，討論處理方案。
 - 3.5 委員會及有關居民代表希望本工程團隊可以就附近的海洋生態進行定期的監察及留意附近的水質，以免污染鄰近水域。工程團隊表示排放的是經過處理的淨化水，該水質符合環境影響評估條例的相關要求，對附近的海洋生態及水質的影響是有限的。
 - 3.6 委員會及有關居民代表要求工程團隊解釋排水口的位置及海水對處理後淨化水的稀釋度情況，並指出處理後淨化水可能有回流至近岸的風險。工程團隊指出排放口是位於離岸約 1.1 公里的海床之上，該位置的水流是可以對處理後淨化水進行足夠的稀釋，而處理後的水質是符合環境影響評估條例的相關要求，所以對近岸構成嚴重污染的風險是很低的。
 - 3.7 委員會及有關居民代表希望工程團隊可以加強對污水處理廠及污水收集系統釋放氣味的管理，以減少對空氣質素的潛在影響。工程團隊表示污水處理廠及泵房均為密封式設計，經處理後排放的氣體符合環境影響評估條例的相關要求，而污水處理廠與附近的民居及道路有足夠的距離，所以氣味的影響是有限的。

會議內容：

- 4 大嶼山南區鄉事委員會表示支持本工程的推展，並希望在本工程正式動工前再次就工程的細節與代表進行溝通。渠務署及工程團表示會與大嶼山南區鄉事委員會及有關居民代表進行緊密的溝通及合作。
- 5 渠務署及工程團隊再次感謝各與會代表對本工程的諒解及支持。
- 6 會議約下午 12 時結束。

<完>

工程合約編號: DC/2020/02

礮石灣污水處理廠及相關海底排放管道建造工程

及貝澳污水收集系統工程

第一次羅屋村會議會議記錄

日期: 2021 年 7 月 10 日

時間: 下午 3 時至下午 4 時

地點: 大嶼山貝澳羅屋村村公所

出席者:		
羅國超先生	貝澳羅屋村	居民代表
謝俊安先生	貝澳羅屋村	原居民代表
何德輝先生	大嶼南鄉事委員會	副主席
羅國輝先生	貝澳羅屋村	居民
羅德義先生	貝澳羅屋村	居民
羅玉堂先生	貝澳羅屋村	居民
羅偉忠先生	貝澳羅屋村	居民
黃大衛先生	貝澳羅屋村	居民
范晉堅先生	貝澳羅屋村	居民
麥志賢先生	貝澳羅屋村	居民
李大權先生	賓尼斯工程顧問有限公司	地盤二級監工
石偉明先生	群利 - 俊和聯營體(承建商)	副地盤主管
黃嘉言先生	群利 - 俊和聯營體(承建商)	聯絡主任

會議內容：

1. 就本工程合約，群利俊和聯營副地盤主管石偉明先生，與羅屋村居民簡介整體的工程背景及概覽，以及貝澳羅屋村的污水收集系統工程項目。
2. 村代表及有關居民要求其他村已建成的污水收集系統的例子，副地盤主管石偉明先生表示可會記錄在案於會後提供。
3. 村代表及有關居民表示現時天台的水正在接駁化糞池，詢問日後會否容許村民接駁天台管道到尾井。
4. 村代表及有關居民詢問為何規劃不包括整個羅屋村，他表示現時的規劃只包括地界的三分之二，下一階段的規劃將會何時展開。
5. 副地盤主管石偉明先生介紹有關污水收集系統的臨時交通管制 (嶼南路)，村代表及有關居民表示不反對。唯關注如臨時交通管制和村內污水收集系統同期進行會缺少出入口而對村民造成不便，石偉明先生會預先規劃及安排施工的先後次序,確保有合適的出入口。
6. 村代表及有關居民表示附近出末的水牛可能會撞倒臨時交通管制的路牌，會否有在附近的工程人員可以介時聯絡。石偉明先生表示將會在適當位置（例如陣內）張貼和事先發放緊急聯絡人電話清單給村民，村民也可以聯絡他通知附近的管工前來幫忙。
7. 村代表及有關居民表示關注廠房的氣味問題。副地盤主管石偉明先生表示建築物會是密封設計，亦將會有除臭系統。
8. 村代表及有關居民詢問關於開工前的安排，譬如拜神以及事先通知於附近泊車的車主。副地盤主管石偉明先生表示工程展開前將會逐一拜訪相關人士提醒有關工程安排。
9. 村代表及有關居民詢問球場附近已擁有牌照的寮屋可否自行接駁污水到非連接相關用戶的尾井，以及如自行接駁的相關後果。
10. 村代表及有關居民詢問為何現時計劃不包括鄉事委員會，杯澳公立學校，鄉事委員會辦事處和大嶼南區康樂中心以及嶼南路羅屋村對面馬路的士多等設施。
11. 村代表及有關居民希望渠務處可以釐清相關的接駁安排，釐清每一間村屋可接駁至相對應的尾井,可否將兩間村屋駁至同一個尾井，及例如 114 與 115 號，以及 115C 等。
12. 村代表及有關居民希望渠務處可以釐清未來興建的村屋的接駁安排。
13. 村代表及有關居民表示骸骨發現的處理流程應向鄉事委員會交待。
14. 村代表及有關居民提醒近 P411-P417 段的雨水渠與規劃中的走線相近。
15. 村代表及有關居民詢問為何規劃不包括同屬羅屋村的 43 及 44 號屋。
16. 會議約下午 4 時結束。

<完>

工程合約編號: DC/2020/02

礮石灣污水處理廠及相關海底排放管道建造工程
及貝澳污水收集系統工程
第二次大嶼山南區鄉事委員會聯絡會議記錄

日期: 2021 年 7 月 15 日

時間: 下午 1 時 30 分 至 下午 2 時 45 分

地點: 大嶼山貝澳大嶼山南區鄉事委員會辦事處會議室

出席者:

何進輝先生	大嶼山南區鄉事委員會	主席
何德輝先生	大嶼山南區鄉事委員會	副主席
陳華國先生	大嶼山南區鄉事委員會	拾浪-居民代表
張子健先生	大嶼山南區鄉事委員會	老圍-居民代表
張劍強先生	大嶼山南區鄉事委員會	老圍-居民代表
張勁之先生	大嶼山南區鄉事委員會	咸田-居民代表
羅國超先生	大嶼山南區鄉事委員會	羅屋-居民代表
陳錫武先生	大嶼山南區鄉事委員會	塘福-原居民代表
梁家麒先生	渠務署特別職務部	高級工程師
陳冠聲先生	渠務署特別職務部	工程師
張信揚先生	賓尼斯工程顧問有限公司	駐工地總工程師
翟耀斌先生	賓尼斯工程顧問有限公司	駐工地工程師
李裕國先生	賓尼斯工程顧問有限公司	駐工地工程師
謝國洲先生	群利 - 俊和聯營體(承建商)	地盤主管
石偉明先生	群利 - 俊和聯營體(承建商)	副地盤主管
李民傑先生	群利 - 俊和聯營體(承建商)	技術經理
黃嘉言先生	群利 - 俊和聯營體(承建商)	聯絡主任

會議內容：

- 1 就本工程合約，群利俊和聯營體及工程團隊為大嶼山南區鄉事委員會及有關居民代表簡介工程背景以及匯報即將進行的工程，並對上一次會議中各委員關注的事項作跟進回應。
- 2 跟進上一次會議中大嶼山南區鄉事委員會及有關居民代表關注的事項：
 - 2.1 委員會及有關居民代表對經處理後淨化水之水質表示關注，建議排水口的位置宜遠離大嶼山南的海岸。工程團隊回覆排放的是經過處理的淨化水，該水質符合環境影響評估條例的相關要求，對附近的海洋生態及水質的影響是有限的。工程團隊亦向委員會及有關居民代表展示電腦模擬分析數據及圖表，表示淨化水對水質基本上沒有影響。另外，渠務署將會安排獨立環境查核人員於工程施工期間及廠房營運期間定期監測水質，並於網頁公佈相關資料。此外，工程團隊補充如果現時要改變排水口的位置，將須重新解決規劃、諮詢、環評報告等一連串問題，整個過程將很大機會花至少數年的時間。居民表示理解，並同意維持現時排水口的位置。
 - 2.2 對污水處理廠及污水收集系統釋放氣味的管理，工程團隊跟進回應指廠房的臭味主要來自硫化氫，而廠房除臭設備的處理程度達 99.5%，換氣率達 10 至 15 倍。
 - 2.3 委員會及有關居民代表表示平時經過小蠔灣污水處理廠時常嗅到臭味，擔心將來貝澳亦有同樣情況。工程團隊回覆小蠔灣污水處理廠僅為化學強化一級污水處理廠，採用開放式設計，而本工程項目採用的新式濾膜處理技術已達到二級污水處理水平，亦採用了密封式設計，相信礮石灣污水處理廠不會出現相似情況。
 - 2.4 委員會及有關居民代表詢問工程團隊將如何處理污水中的固體廢物，工程團隊回覆污水中的固體廢物將會被運往環保署位於屯門的 T·PARK [源·區] 作焚化處理，運送車將會對廢物作密封處理然後送走。
- 3 其他關注事項
 - 3.1 委員會及有關居民代表表示關注第一階段工程未有包括整條羅屋村，希望工程團隊簡述餘下工程於區內的部署。另外，居民希望釐清尾井的接駁安排，譬如未來興建的村屋能否接駁到已興建的尾井，以及一個尾井可以接收多少戶的污水。工程團隊表示根據經驗，一個尾井可以接收約三間屋的污水，其大致的安排如下：
 - 一、首先，工程團隊會拜訪每戶以取得業主同意書，並定下預留木箱的位置。
 - 二、其後，工程團隊會將資料交予環保署，戶主將會收到接駁邀請通知及進行接駁工作。
 - 三、接駁完成後戶主需要通知環保署，環保署會通知渠務署進行色粉檢測，手續完成後有關部門會正式確認接駁，詳情將會顯示在水費單上。

會議內容：

- 3.2 委員會及有關居民代表希望工程團隊提供下一階段其他村的擬議污水渠走線，好讓居民代表與居民儘早溝通。工程團隊表示會予以跟進及於下一次會議作簡單匯報。
 - 3.3 委員會及有關居民代表希望工程團隊於嶼南路實施臨時交通安排時預留足夠行車空間及出入口，並於封路前與居民和其他有關部門一同於現場視察環境，工程團隊表示同意。
 - 3.4 委員會及有關居民代表關注現時尾井的規劃不包括鄉事委員會、杯澳公立學校、鄉事委員會辦事處和大嶼南區康樂中心，以及嶼南路羅屋村對面的士多等設施。工程團隊表示會檢視設計，盡量提供尾井以供村內設施接駁，惟對未登記的寮屋和臨時構築物，則不會提供尾井作接駁。
 - 3.5 委員會及有關居民代表表示正向有關部門申請增建芝麻灣路球場廁所，希望渠務署可提供尾井位置配合。工程團隊表示會與施工團隊討論如何調整工程細節。
 - 3.6 委員會及有關居民代表表示希望工程團隊以於羅屋村施工的諮詢工作及流程作為範本，予日後下一階段於其他村的污水收集系統工程作參考及提前諮詢。工程團隊表示同意。
 - 3.7 委員會及有關居民代表詢問義塚附近工程的開工時間，工程團隊回覆工程預計於第三季正式動工。
 - 3.8 委員會及有關居民代表表示居民非常關注義塚附近的工程開工前的拜神儀式及安排，工程團隊表示動工前會與居民再次商討詳細相關安排。
- 4 大嶼山南區鄉事委員會及有關居民代表重申支持本工程的推展，希望在本工程開展前再次進行溝通。渠務署及工程團表示會與大嶼山南區鄉事委員會及有關居民代表進行緊密的溝通及合作。
 - 5 渠務署及工程團隊再次感謝各與會代表對本工程的諒解及支持。
 - 6 會議約下午 2 時 45 分結束。

<完>

工程合約編號: DC/2020/02

礮石灣污水處理廠及相關海底排放管道建造工程

及貝澳污水收集系統工程

第二次羅屋村會議會議記錄

日期: 2021 年 8 月 10 日

時間: 下午 12 時至下午 12 時 30 分

地點: 大嶼山貝澳羅屋村村公所

出席者:

羅國超先生

貝澳羅屋村

居民代表

石偉明先生

群利 - 俊和聯營體(承建商)

副地盤主管

黃嘉言先生

群利 - 俊和聯營體(承建商)

聯絡主任

會議內容：

1. 就本工程合約，群利俊和聯營副地盤主管石偉明先生，與羅屋村村長報告於羅屋村家訪的聯絡工作內容和最新情況。村長表示支持。
2. 就村渠的尾井建造位置，群利俊和聯營副地盤主管石偉明先生向村長表示，相關的聯絡工作會分成四個階段
 - I. 首先，工程代表會向每戶住戶派發書面的開工通知（即會議當天工程團隊正在進行的工作）；
 - II. 然後，工程代表會以掛號信形式，投寄到每戶邀請業主或業主代表，預約到訪貴宅商討尾井位置的安排；
 - III. 如拜訪日未能成功接觸業主，工程代表會與村長現場擬訂一個最近住戶的尾井位置，並用噴漆在地上畫下記錄，供住戶參考；
 - IV. 最後，如經過一段合理時間工程代表仍未能得到住戶回覆，工程代表會與村長商討，以擬定的位置興建尾井。
 - V. 村長表示沒有意見，並歡迎相關安排。
3. 會議約下午 12 時 30 分時結束。

<完>

工程合約編號: DC/2020/02

礮石灣污水處理廠及相關海底排放管道建造工程

及貝澳污水收集系統工程

第一次咸田村及拾壆村聯絡會議會議記錄

日期: 2021 年 8 月 17 日

時間: 上午 10 時 30 分至中午 12 時

地點: 大嶼山貝澳羅屋村村公所、芝麻灣路、嶼南路、貝澳泵房工地位置

出席者:		
何進輝	主席/ 新圍原居民代表	大嶼山南鄉事委員會
何德輝	副主席/ 新圍居民代表	大嶼山南鄉事委員會
張蓮壽	首副主席/ 拾浪居民原居民	大嶼山南鄉事委員會
陳華國	拾浪居民代表	大嶼山南鄉事委員會
張遠強	咸田居民代表	大嶼山南鄉事委員會
張勁之	咸田居民代表	大嶼山南鄉事委員會
Allen Lee	賓尼斯工程顧問有限公司	駐工地工程師
Raymond Cheung	賓尼斯工程顧問有限公司	高級工程督察
蔡偉坤	賓尼斯工程顧問有限公司	助理工程督察
謝國洲	群利 - 俊和聯營體(承建商)	地盤主管
石偉明	群利 - 俊和聯營體(承建商)	副地盤主管
黃嘉言	群利 - 俊和聯營體(承建商)	聯絡主任

會議內容：

1. 就本工程合約，群利俊和聯營體及工程團隊為咸田村及拾壆村代表以及大嶼山南區鄉事委員，簡介工程背景以及匯報芝麻灣路及貝澳泵房即將進行的工程。
2. 大嶼山南區鄉事委員會及有關居民代表在是次會議中，向工程團隊表達了以下關注及訴求：
 - 2.1 群利俊和聯營體及工程團隊表示芝麻灣路為單線雙程行車，在進行掘路工程時，將會進行臨時交通管制措施，目前計劃會在掘路工程時分段式封路 30 分鐘，待解封時將會在地面鋪上交通蓋板予車輛通過。委員會及有關居民代表對 30 分鐘的封路時間表示疑惑和反對，質疑 30 分鐘的封路時間會對居民出入非常不便，例如出外旅行需要到達機場的人士等，會造成莫大困擾。委員會及有關居民代表建議可以圍封部分芝麻灣路附近的私人土地（如行人路）作改路，以保留一條臨時行車通道。群利俊和聯營體及工程團隊表示明白芝麻灣路的道路使用者眾多，歡迎居民代表對擬定的臨時交通管制措施儘量提出意見和要求，待工程團隊將信息收集並轉達警方交通部和運輸署。
 - 2.2 委員會及有關居民代表對十分關注封路後會阻礙緊急服務車輛進出芝麻灣路，並影響村民及其他持分者對緊急服務的支援，建議工程團隊應採取適當的施工方案令芝麻灣路保持暢通，並與消防署及警方一同溝通商討。
 - 2.3 委員會及有關居民代表工程團隊表示不反對圍封芝麻灣路，但前提是工程團隊必需要維持一段單線雙程的行車通道供居民使用。
 - 2.4 委員會及有關居民代表詢問工程團隊會否有封路以外的掘路方案，以保持芝麻灣路暢通。工程團隊表示不排除其可能性，會研究以改路或地底（無坑）挖掘的方案代替封路，以保證工程期間芝麻灣路的道路使用者仍享有同樣的單線雙程車輛出入通道。居民代表重申工程團隊需要保持芝麻灣路暢通，如能夠以地底（無坑）挖掘方式則更理想。
 - 2.5 委員會及有關居民代表表示會與地政署商討擴闊位於芝麻灣路彎位（泵房入口段落的相鄰位置）供大型車輛作小型回旋處使用。工程團隊表示會與渠務署跟進相關事項。
 - 2.6 工程團隊向居民代表報告現時泵房工地位置正進行雜草清理工作。未來即將進行土地鑽探工作。

- 2.7 委員會及有關居民代表要求工程團隊在泵房建造工程時能顧及附近包括義塚的環境景觀，為義塚建設適當的美化設施，
 - 2.8 委員會及有關居民代表提醒挖掘工作時發現先人骸骨需要通知鄉委委員何德輝先生。工程團隊表示會提醒前線人士相關安排。
 - 2.9 委員會及有關居民代表要求大型挖掘工作進行前，需要與鄉委會商討有關的祭祀儀式安排。較小型的前期工程工程團隊則可以自行安排祭祀儀式。
3. 群利俊和聯營體及工程團隊連同大嶼山南區鄉事委員會及有關居民代表一同到芝麻灣路、嶼南路以及貝澳泵房工地位置現場視察。
 - 3.1 委員會及有關居民代表表示封路需考慮當區商戶，避免在夏天旅遊旺季進行封路措施。
 - 3.2 委員會及有關居民代表希望工程團隊為義塚向泵房方向建造一道圍牆，減少對景觀的影響。
 - 3.3 委員會及有關居民代表表示將會在義塚放置臨時容器安置工程期間發現的骸骨。
 - 3.4 工程團隊向委員會及有關居民代表表示可以研究圍封部分位於羅屋村的行人路段以及停車場的個別車位，作為封閉芝麻灣路及嶼南路的相關路段的替代方案。委員會對建議表示支持。
 4. 會議約中午 12 時結束。

<完>

工程合約編號: DC/2020/02

礮石灣污水處理廠及相關海底排放管道建造工程

及貝澳污水收集系統工程

第一次杯澳公立學校臨時交通管制聯絡會議會議記錄

日期：2021 年 11 月 16 日

時間：上午 10 時 15 分至下午 10 時 50 分

地點：杯澳公立學校

出席者:	公司	職位
潘智輝 先生	杯澳公立學校	校長
張錦華 先生	賓尼斯工程顧問有限公司	工程督察
蔡偉坤 先生	賓尼斯工程顧問有限公司	助理工程督察
謝國州 先生	群利 - 俊和聯營體(承建商)	地盤主管
石偉明 先生	群利 - 俊和聯營體(承建商)	地盤副主管
李德康 先生	群利 - 俊和聯營體(承建商)	地盤總管
黃俊傑 先生	群利 - 俊和聯營體(承建商)	地盤工程師
黃嘉言 先生	群利 - 俊和聯營體(承建商)	聯絡主任

會議內容：

1. 就本工程合約，群利俊和聯營體及工程團隊為杯澳公立學校代表，匯報即將展開的嶼南路及芝麻灣路擬定的臨時交通管制安排，並提供初步封路設計圖紙以供參考。

提供的初步封路設計圖紙：

短期鑽探工程路設計圖：

DC202002/SOLAR/TP10B-KP, TP10B, TP10B-1, TP10B-2, TP10B-3

渠務工程路設計圖：

DC202002/SOLAR/003-KP, 003, 003-1, 003-2, 003-3

DC202002/SOLAR/004-KP, 004, 004-1, 004-2, 004-3

DC202002/SOLAR/016-KP, 016, 016-1, 016-2, 016-3

DC202002/SOLAR/017-KP, 017, 017-1, 017-2, 017-3

2. 杯澳公立學校代表在是次會議中，與工程團隊討論了以下的項目：

- 2.1 工程團隊代表表示就於嶼南路及芝麻灣路即將正式展開的渠務工程，工程團隊介時將會分階段封閉道路的相關工程位置。
- 2.2 工程團隊代表表示預計首部份渠務工程期約二年，預計首階段每段工程區域的施工時間約 2 個月，總共會對學校帶來約七至八個月的影響。
- 2.3 關於噪音，杯澳公立學校代表表示課室窗口的面向工程區域，希望工程團隊採取措施減低其影響。工程團隊代表表示會採取適當的措施，包括避免噪音較大的工序於學校考試時間進行，以及例如使用低噪音工具或隔音屏障等措施以減低工程對學校噪音的影響。
- 2.4 工程團隊代表表示可以提供壁報讓校方張貼在校方通告欄或者以校方通告的形式，給予家長予包括工程熱線等的工程資訊，以及一個溝通渠道反映對工程的意見。
- 2.5 杯澳公立學校表示學校並沒有設置校巴，通常家長會於學校外的停車場位置以私家車接送學生。
- 2.6 杯澳公立學校代表表示學校共有兩個出入口，側門設於芝麻灣路面向公共停車場位置，正門側設於嶼南路近班馬線位置。
- 2.7 杯澳公立學校代表表示如有需要，可以接受短時間內封閉學校其中一個出入，但學校代表提醒切勿同時封閉兩邊的出入口，工程團隊需要確保其中一出口可以如常進出，工程團隊代表表示同意。
- 2.8 杯澳公立學校代表表示如封閉嶼南路及芝麻灣路的交界的行人路，將會影響學校側門作為學生上學的主要通道。介時學生可能需要經近新圍村橫跨嶼南路抵達學校側門位置，學校代表關心學生通過相關路段會相對危險。工程團隊表示工程施工前會與校方與保持緊密溝通，另外工程團隊會安放適當的道

路告示，提醒學生等的道路使用者相關的道路安排，減低工程於安全上的影響。

- 2.9 杯澳公立學校代表表示工程對學校影響最少的時間為 7 月中至 8 月的暑假期間，工程團隊代表表示會記錄供日後參考並儘量配合，以將其影響減至最低。
 - 2.10 杯澳公立學校代表表示長假期的日子為農曆新年、復活節、暑假及聖誕假期。會予會後給予校曆表供工程團隊參考。
 - 2.11 工程團隊表示工程將會封閉部分行人過路設施包括部分班馬線。為確保行人可以安全經過，在相關路面的開掘位置，工程團隊會鋪上鐵板予學生及其他行人安全使用。
 - 2.12 工程團隊表示部分段落工程將會封閉現時的羅屋村巴士站位置，介時臨時巴士站將會擬定於原巴士站約一百米外，學生回校可能須要額外時間。杯澳公立學校代表相信相關安排影響不大，對相關的交通安排沒有意見，
 - 2.13 杯澳公立學校代表表示放學時大約會有二百多師生及家長出入，使用正門的學生及家長約六十人。工程團隊表示會於上課時間（約早上 8 時 20 分至 8 時 45 分）下課時間（下午 1 時正時至 1 時 30 分）內禁止大型工程車輛進出，以保障學生的道路安全。
 - 2.14 工程團隊表示在未來兩三個月內將會進行短期的試探地下設施工程，工程團隊為工程期間產生的影響造成的不便致歉。杯澳公立學校代表對相關臨時交通管制安排沒有意見。
 - 2.15 杯澳公立學校代表對相關臨時交通管制安排沒有其他意見。
3. 會議約中午 10 時 50 分結束。

<完>

Notice to Stakeholders - Commencement of Work

Date	No. of household visited for distributing the notice regarding to the Commencement of Work
10 Aug 2021	39
11 Aug 2021	36
2 Sep 2021	8
8 Sep 2021	5
17 Sep 2021	5
28 Sep 2021	2
16 Oct 2021	1
11 Nov 2021	1
23 Nov 2021	1
13 Dec 2021	2
30 Dec 2021	1
12 Jan 2022	1
18 Jan 2022	1

Photo Record for Notice Distribution



Appendix G – Implementation Schedule

Implementation Schedule

EIA Ref.	Recommended Major Environmental Protection Measures / Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to Address	Implementation Party	Implementation Stage	Relevant Legislation & Guidelines
S8.8.1	Good construction site practice shall be maintained.	All area/ During construction	Contractor	Construction Phase	-
S8.8.1	Quiet Powered Mechanical Equipment (PME) shall be used.	Noise control/ During construction	Contractor	Construction Phase	-
S8.8.1	Movable noise barriers shall be adopted.	Noise control/ During construction	Contractor	Construction Phase	A Practical Guide for the Reduction of Noise from Construction Works.
S8.8.1	Noise insulation sheet shall be used for PME.	Noise control/ During construction	Contractor	Construction Phase	-
S8.8.1	Scheduling of PME/construction activities: some construction activities will be operated in sequence rather than simultaneously within the respective works areas.	Noise control/ During construction	Contractor	Construction Phase	-
S8.8.1	Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase.	Noise control/ During construction	Contractor	Construction Phase	-
S8.8.1	Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase.	Noise control/ During construction	Contractor	Construction Phase	-
S8.8.1	Mobile plant, if any, shall be sited as far away from Noise Sensitive Receivers (NSRs) as possible.	Noise control/ During construction	Contractor	Construction Phase	-
S8.8.1	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	Construction Phase	-
S8.8.1	Plant 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	Construction Phase	-
S8.8.1	Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.	Noise control/ During construction	Contractor	Construction Phase	-
S8.8.1	Manual working will be required to replace operation of large PMEs such as such as excavators, lorries and concrete lorry mixers when construction of village sewers carried out in narrow village alleys.	Noise control/ During construction	Contractor	Construction Phase	-
S8.8.2	Quieter equipment shall be chosen and noise levels specification shall be included when ordering new plant items.	Noise control/ Preconstruction*/ During construction	Contractor	Construction Phase	-
S8.8.2	Locate fixed plant items or noise emission points away from the NSRs as far as practicable.	Noise control/ During construction	Contractor	Construction Phase	-
S8.8.2	Locate noisy machines in completely enclosed plant rooms or buildings with suitable and practicable noise remedies.	Noise control/ During construction	Contractor	Construction Phase	-
S8.8.2	Develop and implement a regularly scheduled plant maintenance programme so that plant items are properly operated and serviced. The programme should be implemented by properly trained personnel.	Noise control/ During construction	Contractor	Construction Phase	-
S8.11.1	The effectiveness of on-site control measures could also be evaluated through the regular site audits.	During construction#	ET / IEC	Construction Phase	-

Remark:

* Preconstruction included the ground investigation and site clearance.

On site control measures for all facilities shall be carried out during the operation phase, and excluded in CNMP.