Appendix 6

Replacement Pages of Environmental Assessment

1 Introduction

1.1 Background

1.1.1 The Site is located at No. 66 Deep Water Bay Road, Shouson Hill, Hong Kong where it is zoned as "R(C)3" in accordance with the approved Shouson Hill & Repulse Bay Outline Zoning Plan No. S/H17/13. The Client intends to redevelop the Site into 2 semi-detached houses and increase the maximum permitted site coverage from 25% to 37% at No. 66 Deep Water Bay Road. Due to the proposed increase in the permitted site coverage, a Section 16 Planning Application will therefore be required.

1.1.2 Aurecon Hong Kong Limited has been commissioned to conduct an Environmental Assessment Report for assessing the air quality, noise, water quality, waste management and land contamination upon the proposed redevelopment to demonstrate the environmental acceptability for fulfilling the planning application requirement.

1.2 Objectives of the Environmental Assessment

1.2.1 The objective of this Report aims to identify key environmental issues associated with the proposed redevelopment for any potential impacts identified. The Environmental Assessment Report will be prepared to address the environmental aspects arising from construction and operation of the proposed redevelopment.

1.3 Report Structure

1.3.1 The remaining chapters of this report are shown below:

Chapter 2 – Site Context

Chapter 3 – Air Quality Impact

Chapter 4 – Noise Impact

Chapter 5 – Water Quality Impact

Chapter 6 – Waste Management

Chapter 7 – Land Contamination

Chapter 8 - Conclusion

4.6.6 The appropriate ANLs for NSRs around have been determined as shaded in **Table 4.5**.

Table 4.5 Acceptable Noise Levels (ANLs)

Time Period	Acceptable Noise Level, Leq 30 mins, dB(A)		
	Area Sensitivity Rating "A"	Area Sensitivity Rating "B"	Area Sensitivity Rating "C"
Day-time (0700 – 1900 hours)	60	65	70
Evening (1900 - 2300 hours)			
Night-time (2300-0700 hours)	50	55	60

4.6.7 According to HKPSG, for noise criteria involving planned fixed noise sources, the level of the intruding noise at the façade of the nearest existing sensitive use should be at least 5 dB(A) below the appropriate ANL shown in as shown in **Table 4.5**, in the case of the background being 5 dB(A) lower than the ANL, should not be higher than the background.

4.6.8 Noise measurement has been conducted to measure the background noise level at the vicinity of existing NSRs. According to the measured results as shown in **Table 4.2**, the measured background noise levels are below ANL-5 (55dB(A) during daytime and evening time, 45dB(A) during night-time period). Hence, the measured background noise levels would be adopted as the noise criteria. The summary of noise criteria for the proposed development is established in **Table 4.6**. The background noise measurement results and details of noise criteria adopted for the fixed plant noise assessment is provided in **Appendix 4.2**.

Table 4.6 Noise Criteria adopted for fixed plant noise impact assessment

Time Period	Noise criteria (Background free field noise level, Leq 30 mins, dB(A))
Day-time (0700 – 1900 hours)	46
Evening (1900 - 2300 hours)	46
Night-time (2300-0700 hours)	43

4.6.9 The fixed plant noise assessment has been conducted, and the detailed calculation is provided in **Appendix 4.2**. According to the predicted results, the fixed plant noise impacts to the nearest NSRs are well within the established noise criteria for daytime, evening time and night-time period. **Table 4.6** has summarised the noise impacts of the NSRs which comply with the noise criteria, hence, no noise mitigation would be necessary.

Table 4.7 Summary of Unmitigated Impacts on Existing NSRs

NSRs	Description	Daytime/ Evening Period, Leq (30min), dB(A) Noise criteria = 46 dB(A)	Night-time Period, Leq (30 min), dB(A) Noise criteria = 43 dB(A)
N1	71 Deep Water Bay Road	39	39
N2	72 Deep Water Bay Road, House 2	38	38
N3	68 Deep Water Bay Road	40	40

5 Water Quality Impact

5.1 Introduction

5.1.1 This section discusses the potentials water impact likely arising during the construction and operations phases of the proposed development. Practical mitigation measures are proposed to reduce environmental impacts to acceptable level, if necessary.

5.2 Environmental Legislation, Standards and Guidelines

5.2.1 The relevant legislation and associated guidance applicable to this EA for the assessment of water quality impacts include:

- Water Pollution Control Ordinance (WPCO) (Cap. 358)
- Water Pollution Control (General) Regulations
- Water Pollution Control (Sewerage) Regulation
- Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (TM-DSS)
- Chapter 9 “Environment” of the Hong Kong Planning Standards and Guidelines (HKSPG)
- Professional Persons Environmental Consultative Committee Practice Note 2/24 Construction Site Drainage (ProPECC PN 2/24)
- Professional Persons Environmental Consultative Committee Practice Note 1/23 Drainage Plans subject to Comment by the Environmental Protection Department (ProPECC PN 1/23)

should be made with the recycling companies to collect the recycle waste. A reputable waste collector should be employed by the construction contractor to remove general refuse from the Site, separately from C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of “wind-blown” materials.

- Contractors should register as Chemical Waste Producer if any chemical waste is generated during construction phase of the Project. A licensed collector shall be employed to handle and dispose of the chemical wastes, if any. In addition, any chemical waste generated should be handled in accordance with EPD’s Code of Practice on the Packaging, Labelling and Storage Chemical Waste.

6.4 Impact Review – Operational Phase

6.4.1 During operational phase, general refuse anticipated from the proposed development include daily activities of residents, staff and visitors. Waste would include general food waste and other recyclable including paper, glass and metal containers, etc. According to the EPD’s "Monitoring of Solid Waste in Hong Kong – Waste Statistics for 2023", the five-year average (2019 to 2023) per capita general refuse disposal rate is 1.48kg/person/day. All general refuse should be recycled wherever possible, and landfill disposal should only be adopted as a last resort. The recyclables will be properly sorted and stored within the Site for further collection. For food waste, the implementation of appropriate recycling measures will be considered during the operational phase, subject to further detailed feasibility study.

6.4.2 General refuse generated during the operational stage will be collected at the refuse collection point provided within the Site for further collection. The waste management practice will comply with the statutory requirements.

6.4.3 With the implementation of good waste management practices at the Site, adverse environmental impacts caused by storage, handling, transport and disposal of general refuse are not anticipated.

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