

Appendix 4.11 Proposed Operational Fixed Plant Inventory with Mitigation Measures

Proposed SPS Building

Fixed Plant	SWL per Item, dB(A) ^[1]	Reference ^[1]	No. of Items ^[2]	Mitigation Measures, dB(A) ^[3]	Sub-total SWL, dB(A)
Submersible pump	88	Ref 1	2	0	91
Mechanically raked screen	89	Ref 2	1	0	89
Exhaust fan of deodorising unit (8,600 m ³ /hr)	83	Ref 3	1	-10	73
Ventilation fan (34000 m ³ /hr)	89	Ref 4	1	-10	79

Proposed Transformer Room and Switch Room

Fixed Plant	SWL per Item, dB(A) ^[1]	Reference ^[1]	No. of Items	Mitigation Measures, dB(A) ^[3]	Sub-total SWL, dB(A)
Transformer	85	Ref 1	1	0	85
Ventilation fan (1700 m ³ /hr)	79	Ref 5	2	-10	72

Notes:

[1] Ref 1 - The SWL was made reference to the approved EIA Report of Tuen Mun Area 54 Sewage Pumping Station (register no. AEIAR-122/2008).

Ref 2 - The SWL was made reference to the approved EIA Report for Port Shelter Sewerage, Stage 3 - Sewerage Works at Po Toi O (register no. AEIAR-206/2017).

Ref 3 - The SWL was made reference to the EPD's Good Practices on Ventilation System Noise Control based on the flow rate of 8600m³/hr and 125 Pa.

Ref 4 - The SWL was made reference to the EPD's Good Practices on Ventilation System Noise Control based on the flow rate of 34000m³/hr and 125 Pa.

Ref 5 - The SWL was made reference to the EPD's Good Practices on Ventilation System Noise Control based on the flow rate of 1700m³/hr and 125 Pa.

[2] Standby items are not included in noise assessment.

[3] Noise reduction of 10 dB(A) is assumed for ventilation fan with silencer with reference to "Good Practices on Ventilation System Noise Control" published by EPD.

