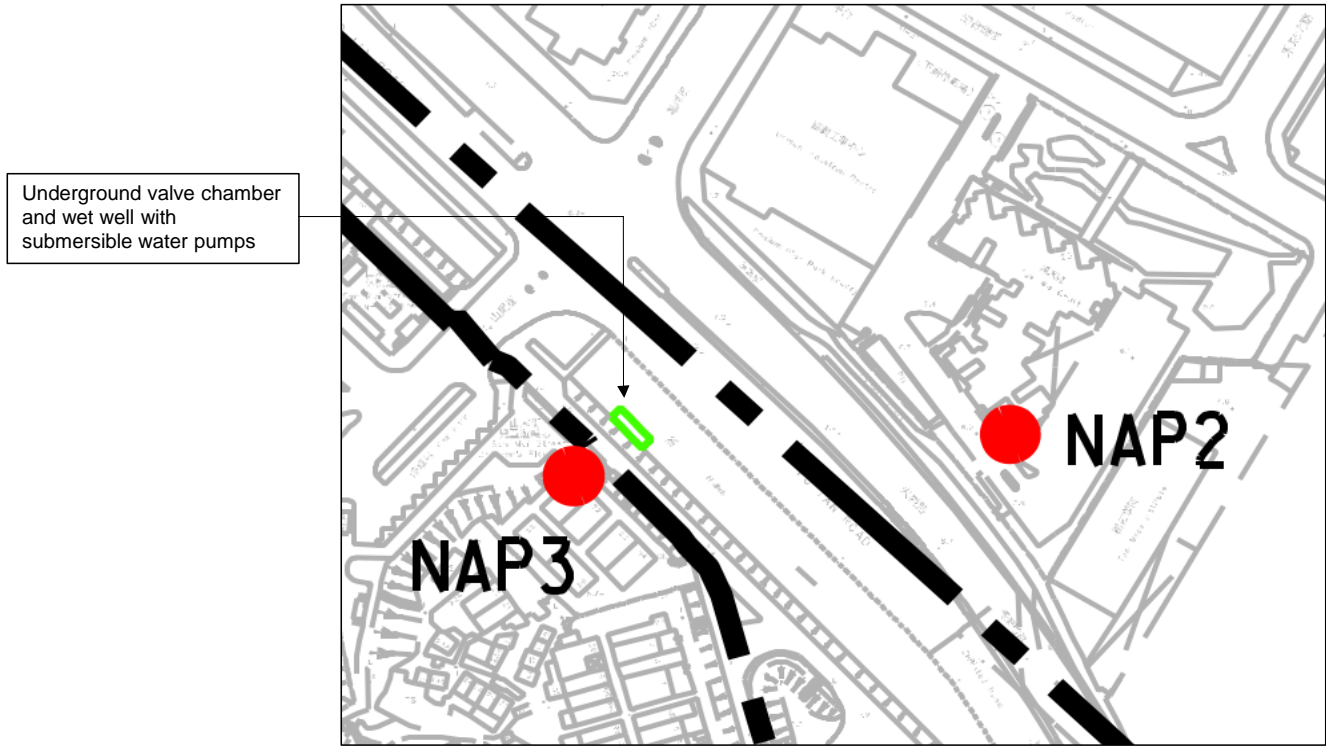


Appendix 4.5 Calculations of Operational Fixed Plant Noise Levels without Mitigation Measures



NAP ID	NSR Description	Fixed Plant Noise Criteria Adopted ^[1] , dB(A)		Fixed Noise Source	SWL / Item, dB(A) ^[2]	No. of Items ^[3]	Minimum Horizontal Distance, m	Distance Attenuation, dB(A) ^[4]	Correction, dB(A)			Predicted Noise Level, L _{eq} (30-min), dB(A)	Exceedance, dB(A)	
		Daytime & Evening	Night-time						Screening Effect ^[5]	Façade	Sight Line		Daytime & Evening	Night-time
NAP2	Yuk Wo Court	59	N/A	Submersible pump	85	1 duty + 1 standby	79	-46	-20	3	0	22	0	N/A
NAP3	51 Fo Tan Village	60	N/A	Submersible pump	85	1 duty + 1 standby	19	-34	-20	3	0	34	0	N/A

Notes:

- [1] See **Appendix 4.1** for determination of fixed plant noise criteria. There would be no night-time operation (2300 to 0700) for the proposed fixed plants. Only the noise criteria for day-time / evening (0700 to 2300 hrs) are therefore adopted.
- [2] Manufacturer's catalogue, assuming maximum 85 dB(A) at the best efficiency point of pump with power output greater than 30 kW.
- [3] Standby items are not included in noise assessment.
- [4] Distance Attenuation in dB(A) = 20 log D + 8, where D is horizontal distance in metres.
- [5] Noise reduction of 20 dB(A) is assumed for the submersible pumps which will be housed in the underground wet well below the channel bed.

xylem
Let's Solve Water



安装、操作与维护手册

887322_9.0



N3231, N3306, N3312, N3356,
N3400

FLYGT
a xylem brand

5 运行

5.1 注意事项

在该装置投入使用之前，请检查以下各项：

- 所有建议的安全装置均已安装。
- 电缆和电缆引入线没有受损。
- 清除了所有细屑和废物。

注意:

切勿在排放管阻塞或者排出阀关闭时操作泵。

警告: 人身危险

自动重启的风险。



湿区距离



警告: 电机危险

触电或燃烧的危险。如果人员可能接触到与泵也会发生接触的液体（即抽运液体），则必须将一个额外的接地故障保护设备连接到接地连接器。



小心: 电机危险

触电或燃烧的危险。设备制造商尚未对本设备进行泳池适用性评估。如果用于泳池，应遵守特别的安全规定。

5.2 噪声级

在某些安装内及泵性能曲线上的某些运行点，声能级可能超过 70 dB(A)。如下图所示，泵的功率输出超过 30 kW，则在最佳的效率点，声能级可能介于 70 dB(A) 和最大 85 dB(A) 之间。

确保了解安装产品的环境的噪音等级要求。未能遵照此要求将造成听力损害或违反当地法律。

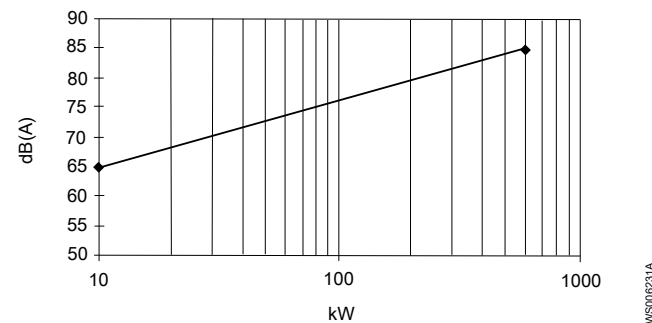


图 68: 声压