
The Cambridge South East Transport Order

Transport And Works Act 1992

Transport And Works (Applications And Objections Procedure) (England And Wales) Rules 2006

Appendix 7.3 – Construction Vibration Assessment

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Applicant	Cambridgeshire County Council
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- 7.3.1

The assessment considers the effects of ground borne vibration during construction activities that feature vibratory soil compaction, and asphalt rolling.
- 7.3.2

Table 7.3.1 shows the predicted peak particle vibration (PPV) levels in mm/s attributed to compaction activities.

Table AError! No text of specified style in document..**3.1 Predicted peak particle vibration (PPV) levels attributed to construction activities (mm/s)**

Activity	10 m	25 m	50 m	75 m
Compaction	3.7	1.0	0.4	<0.3

Legend

Major	10 mm/s or higher	Moderate	1.0 to 9.9 mm/s
Minor	0.3 to 0.9 mm/s	Negligible	Less than 0.3 mm/s

- 7.3.3

It can be seen that there is the potential for vibration from compaction to be perceptible within 75 m of the works.
- 7.3.4

The SOAEL threshold would be exceeded at vibration sensitive receptors closer than 25 m during various compaction works.
- 7.3.5

Compaction works are planned for all new and altered sections of the busway, and access roads. It can be seen that vibration levels from compaction works are below those provided in BS 5228 Part 2 (Annex B.4.4) for underground services and that impacts from compaction works are unlikely.