

## Appendix 3.12 – Source Vibration Level

### Force Density Level for M-Stock Train

1/3 Octave Band Centre Frequency (Hz)	FDL at 80kph (dB re 10 <sup>-6</sup> in/s / (lbf/√ft))
3.15	32.6
4	39.4
5	40.8
6.3	45.5
8	46.3
10	46.8
12.5	47.6
16	40.8
20	41.8
25	47.5
31.5	44.6
40	47.6
50	42.7
63	40.6
80	44.7
100	47.7
125	48.5
160	48.0
200	44.1
250	46.3
315	42.1
400	39.0
500	38.1
Overall	58.6

Note: Vibration data extracted from the West Island Line EIA Final Study report