
**Appendix A14.3
Construction Noise
Source Data**

APPENDIX A14.3 – CONSTRUCTION NOISE SOURCE DATA

The following tables describe the input data for construction activities modelled in the noise and vibration assessment presented in Chapter 14 of Volume 2 of this EIAR.

Table 1 Overhead Line Equipment Installation

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Advanced Enabling & Utility Works, Site Preparation Works	Chain Saw	BS 5228-1:2009 Table C.4:73	84
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Foundation construction (concrete piles) (assumed 30% concrete)	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
	Articulated Dump Track	BS 5228-1:2009 Table C.4:2	78
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
Foundation construction (steel piles) (assumed 70% steel)	Vibratory pile driver (Moavax or similar)	BS 5228-1:2009 Table C.3:8	88
	Hydraulic hammer	BS 5228-1:2009 Table C.3:2	87
	Articulated Dump Track	BS 5228-1:2009 Table C.4:2	78
	pneumatic bolt tightener	#N/A	#N/A
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
Installation of support structures, including masts and cantilevers	Crane on Truck	BS 5228-1:2009 Table C.4:53	77
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	Welding Equipment	BS 5228-1:2009 Table C.3:31	73
	Generator	BS 5228-1:2009 Table C.6:39	65
	Saw	BS 5228-1:2009 Table C.4:73	84
Installation of contact wire	4 Wheel Platform	BS 5228-1:2009 Table C.4:59	78
Advanced Enabling & Utility Works, Site Preparation Works	Chain Saw	BS 5228-1:2009 Table C.4:73	84
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Foundation construction (concrete piles) (assumed 30% concrete)	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69

Table 2 Modifications to Conolly Station

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Advanced Enabling & Utility Works, Site Preparation Works	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Foundation for the new structure (concrete pile caps and micropiles)	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	Wheel Loader	BS 5228-1:2009 Table C.4:13	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
	Micropiling Rig	BS 5228-1:2009 Table C.3:17	76
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
Temporary shoring structure of the canopy and cutting structural columns	Crane	BS 5228-1:2009 Table C.4:43	70
	Generator	BS 5228-1:2009 Table C.6:39	65
	Welding equipment	BS 5228-1:2009 Table C.3:31	73
Provisional falseworks	Pallet Fork on Wheel Loader	BS 5228-1:2009 Table C.4:13	71
Columns and walls	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
Excavation from the platform level down to the falsework Vertical structure from arches level to platform level	Breaker mounted on excavator	BS 5228-1:2009 Table C.1:9	90
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	Skip Wagon	BS 5228-1:2009 Table C.8:21	78
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Arched slab between beam and concrete wall	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Remaining parts of the structure (e.g.: beams, walls supporting the escalators, foundation for the escalator's pit)	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Walls enclosing the shaft	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Escalators/staircase/lift structure	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Backfill canopy foundation, definitive foundations and columns of the structure. Removal of canopy shoring structure	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
	Saw	BS 5228-1:2009 Table C.4:73	84
	Crane	BS 5228-1:2009 Table C.4:43	70
Shoring structure removal under vaults	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
	Saw	BS 5228-1:2009 Table C.4:73	84
	Crane	BS 5228-1:2009 Table C.4:43	70
Refurbishment	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Mortar Injection Pump	#N/A	#N/A

Table 3 Track Lowering

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Advanced Enabling & Utility Works, Site Preparation Works	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
	Skip wagon	BS 5228-1:2009 Table C.8:21	78
	Jet-grouting machine	#N/A	#N/A
Rail cutting	Rail cutting machine	BS 5228-1:2009 Table C.4:73	84

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Removal of old track panels	Road-Rail Excavator	BS 5228-1:2009 Table C.2:21	71
	Crane on Truck	BS 5228-1:2009 Table C.4:53	77
Removal of degraded ballast	Road-Rail Excavator	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Excavation of the formation until desired level	Road-Rail Excavator	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Extension of first ballast layer, levelling and compaction	Road-Rail Excavator	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Wheeled Loader	BS 5228-1:2009 Table C.4:13	71
	Grader	BS 5228-1:2009 Table C.6:31	86
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
Laid preassemble track panels and connect them with provisional joints	Road-Rail Excavator	BS 5228-1:2009 Table C.2:21	71
	Truck mounted crane	BS 5228-1:2009 Table C.4:53	77
Extension of second ballast layer, tamping and dynamic stabilization	Road-Rail Excavator	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Tamper	Estimate	91
Welding joints and second stabilization	Welding equipment	BS 5228-1:2009 Table C.3:31	73
	Tamper	Estimate	91

Table 4 Substation Construction

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Substation Construction	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69

Table 5 Spencer Dock Station & OBD228 Sherriff Street Bridge Reconstruction

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Advanced Enabling & Utility Works, Site Preparation Works, Demolish part of OBD228 (5 spans)	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
	Breaker mounted on Excavator	BS 5228-1:2009 Table C.1:9	90
	Dust Suppression	BS 5228-1:2009 Table C.4:91	78
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
Excavation of the 2 foundations located at the edges of platform	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
	Micropiling Rig	BS 5228-1:2009 Table C.3:17	76

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
Execution of secant-piled walls	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
	Bentonite Plant	BS 5228-1:2009 Table C.4:22	76
	Mobile Crane	BS 5228-1:2009 Table C.4:43	70
	Sheet Piling (hydraulic jacking)	BS 5228-1:2009 Table C.3:9	63
Excavation and disposal of soil between walls	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
	Dozer	BS 5228-1:2009 Table C.2:10	80
	Backhoe	BS 5228-1:2009 Table C.4:14	67
	Wheeled Loader	BS 5228-1:2009 Table C.6:33	82
	Compaction Machine	BS 5228-1:2009 Table C.5:19	80
	De-watering Pump	BS 5228-1:2009 Table C.4:88	68
	Earth Rammer	BS 5228-1:2009 Table C.2:41	80
Execution of lower sub-pressure slab	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
	Tower Crane	BS 5228-1:2009 Table C.4:48	76
	Plate Vibrator	BS 5228-1:2009 Table C.2:41	80
RC columns and walls, including OBD228 piers	Tower Crane	BS 5228-1:2009 Table C.4:48	76
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Repair connection to existing structure	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Reconstruction of OBD228 Deck	Tower Crane	BS 5228-1:2009 Table C.4:48	76
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Construction/installation of the above ground slabs	Tower Crane	BS 5228-1:2009 Table C.4:48	76
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
	Plate Vibrator	BS 5228-1:2009 Table C.2:41	80
Installation of roof steel truss	Tower Crane	BS 5228-1:2009 Table C.4:48	76
	Generator	BS 5228-1:2009 Table C.6:39	65
	Welding equipment	BS 5228-1:2009 Table C.3:31	73
	Forklift	BS 5228-1:2009 Table C.2:35	71
	Telehandler	BS 5228-1:2009 Table C.4:54	79

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
MEP fitout	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Landscaping	Plate Vibrator	BS 5228-1:2009 Table C.2:41	80
	Vibratory Roller	BS 5228-1:2009 Table C.5:25	75
	Asphalt paver	BS 5228-1:2009 Table C.5:32	84
	Mini Excavator	BS 5228-1:2009 Table C.4:67	74

Table 6 Spencer Dock Permanent Way

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Advanced Enabling & Utility Works, Site Preparation Works	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
	Breaker mounted on Excavator	BS 5228-1:2009 Table C.1:9	90
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Excavation until desired level A	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Subgrade preparation A	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Wheeled Loader	BS 5228-1:2009 Table C.4:13	71
	Grader	BS 5228-1:2009 Table C.6:31	86
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
Execution of secant-piled walls A	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Subsurface drainage provisions A	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Sub-base placement A	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
Steel placement for RC slab, concrete placement and curing A	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Slip-form paver	Manufacturer Reference	77
Marking and Drilling of insert holes A	Drilling Machine	BS 5228-1:2009 Table C.4:69	85
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Rail installation A	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
Advanced Enabling & Utility Works, Site Preparation Works B	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Excavation until desired level B	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Subgrade preparation B	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Wheeled Loader	BS 5228-1:2009 Table C.4:13	71
	Grader	BS 5228-1:2009 Table C.6:31	86
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
Execution of secant-piled walls B	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Subsurface drainage provisions B	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Sub-base placement B	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
Steel placement for RC slab, concrete placement and curing B	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Slip-form paver	Manufacturer Reference	77
Marking and Drilling of insert holes B	Drilling Machine	BS 5228-1:2009 Table C.4:69	85
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Rail installation B	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
Advanced Enabling & Utility Works, Site Preparation Works C	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Excavation until desired level C	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Subgrade preparation C	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Wheeled Loader	BS 5228-1:2009 Table C.4:13	71
	Grader	BS 5228-1:2009 Table C.6:31	86
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
Execution of secant-piled walls C	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Subsurface drainage provisions C	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Sub-base placement C	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
Steel placement for RC slab, concrete placement and curing C	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Slip-form paver	Manufacturer Reference	77
Marking and Drilling of insert holes C	Drilling Machine	BS 5228-1:2009 Table C.4:69	85
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Rail installation C	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
Execution of secant-piled walls D	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Subgrade preparation	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Wheeled Loader	BS 5228-1:2009 Table C.4:13	71
	Grader	BS 5228-1:2009 Table C.6:31	86
Subsurface drainage provisions	Medium Roller	BS 5228-1:2009 Table C.5:24	84
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
Sub-base placement/Steel placement for RC slab, concrete placement and curing	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
Marking and Drilling of insert holes	Slip-form paver	Manufacturer Reference	77
	Drilling Machine	BS 5228-1:2009 Table C.4:69	85
Rail installation	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74

Table 7 Substation Construction

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Substation Construction	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69

Table 8 Arch Deck Reconstruction

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Advanced Enabling & Utility Works and traffic diversion	Saw	BS 5228-1:2009 Table C.4:73	84
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Soil improvement & foundation strengthening	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Jet Grouting	0	82
	Micropiling Rig	BS 5228-1:2009 Table C.3:17	76

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Demolition of existing structure	Breaker mounted on excavator	BS 5228-1:2009 Table C.1:9	90
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Dust Suppression	BS 5228-1:2009 Table C.4:91	78
	Crane	BS 5228-1:2009 Table C.4:43	70
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Deck reconstruction	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Crane	BS 5228-1:2009 Table C.4:43	70
	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
Backfill behind walls	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
Road modification to a new level	Breaker mounted on excavator	BS 5228-1:2009 Table C.1:9	90
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Wheeled Loader	BS 5228-1:2009 Table C.4:13	71
	Grader	BS 5228-1:2009 Table C.6:31	86
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
	Asphalt Paver	BS 5228-1:2009 Table C.5:32	84
	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
Restoration, parapets and finishings	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69

Table 9 Flat Deck Reconstruction

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Advanced Enabling & Utility Works and traffic diversion	Saw	BS 5228-1:2009 Table C.4:73	84
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Soil improvement & foundation strengthening	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Jet Grouting	0	82
	Micropiling Rig	BS 5228-1:2009 Table C.3:17	76
Road modification to a new level (only when 2-phase construction)	Breaker mounted on excavator	BS 5228-1:2009 Table C.1:9	90
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Wheeled Loader	BS 5228-1:2009 Table C.4:13	71
	Grader	BS 5228-1:2009 Table C.6:31	86
	Medium Roller	BS 5228-1:2009 Table C.5:24	84

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
	Asphalt Paver	BS 5228-1:2009 Table C.5:32	84
	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
Place temporary steel frame	Crane	BS 5228-1:2009 Table C.4:43	70
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
	Generator	BS 5228-1:2009 Table C.6:39	65
	Welding Equipment	BS 5228-1:2009 Table C.3:31	73
Deck lifting works, including: pavement and infill removal, excavation to the abutment level, vertical/horizontal cut between the piers/abutment and deck, insert jacks and jack up the deck.	Breaker mounted on excavator	BS 5228-1:2009 Table C.1:9	90
	Crane	BS 5228-1:2009 Table C.4:43	70
	Dust Suppression	BS 5228-1:2009 Table C.4:91	78
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Saw	BS 5228-1:2009 Table C.4:73	84
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Jacks	BS 5228-1:2009 Table C.3:19	75
Abutments reconstruction, including: demolition of the top part of the abutment, insert and fill grout bags and remove jacks, construction of newly heightened deck support section, reconstruct the connections between deck and abutments and remove temporary steel frame.	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
	Crane	BS 5228-1:2009 Table C.4:43	70
Road modification to a new level	Breaker mounted on excavator	BS 5228-1:2009 Table C.1:9	90
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Wheeled Loader	BS 5228-1:2009 Table C.4:13	71
	Grader	BS 5228-1:2009 Table C.6:31	86
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
	Asphalt Paver	BS 5228-1:2009 Table C.5:32	84
	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
Parapets and finishings	Concrete mixer truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69

Table 10 Ashtown Station

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Advanced Enabling & Utility Works, Site Preparation Works	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Dismantle existing pedestrian bridges (x2)	Breaker mounted on Excavator	BS 5228-1:2009 Table C.1:9	90

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
	Dust Suppression	BS 5228-1:2009 Table C.4:91	78
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Demolish existing station infrastructure (days)	Breaker mounted on Excavator	BS 5228-1:2009 Table C.1:9	90
	Dust Suppression	BS 5228-1:2009 Table C.4:91	78
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Install clay dams	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
Dewater section of works	Water Pump	BS 5228-1:2009 Table C.5:40	68
Install through flow pipe	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	Plate Compactor	BS 5228-1:2009 Table C.2:41	80
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Crane	BS 5228-1:2009 Table C.4:43	70
Infill canal and install piling mat.	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
Install piles from the canal	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Bentonite plant	BS 5228-1:2009 Table C.4:22	76
	Mobile Crane	BS 5228-1:2009 Table C.4:43	70
Platform Widening	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Breaker mounted on Excavator	BS 5228-1:2009 Table C.1:9	90
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Install piles from the northern platform	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Bentonite plant	BS 5228-1:2009 Table C.4:22	76
	Mobile Crane	BS 5228-1:2009 Table C.4:43	70
Install piles south of railway	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Bentonite plant	BS 5228-1:2009 Table C.4:22	76
	Mobile Crane	BS 5228-1:2009 Table C.4:43	70
Cut piles down to final level	Breaker mounted on Excavator	BS 5228-1:2009 Table C.1:9	90
Install Pile Caps	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69

Table 11 Ashtown Level Crossing

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Advanced Enabling & Utility Works and traffic diversion	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Demolition of existing building	Breaker mounted on Excavator	BS 5228-1:2009 Table C.1:9	90
	Dust Suppression	BS 5228-1:2009 Table C.4:91	78
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Install clay dams	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
Dewater section of works	Water Pump	BS 5228-1:2009 Table C.5:40	68
Install through flow pipe	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	Plate Compactor	BS 5228-1:2009 Table C.2:41	80
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Crane	BS 5228-1:2009 Table C.4:43	70
Infill canal and install piling mat.	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
North side railway underbridge corner piles	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
South side railway underbridge corner piles	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Install canal aqueduct piles	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Installation of monolithic reinforced concrete railway bridge deck	SPMT	#N/A	#N/A
	Road-Rail Excavator	BS 5228-1:2009 Table C.2:21	71

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Install ballast and reinstate tracks	Crane on Truck	BS 5228-1:2009 Table C.4:53	77
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Tamper	Estimate	91
Install canal aqueduct capping beam	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Install canal aqueduct deck and permanent retaining walls	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Remove canal infill and clay dams	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Excavate beneath railway underbridge and canal aqueduct	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Install reinforced concrete base slab	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Install reinforced concrete retaining walls to railway underbridge	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Install stone facing wall	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82

Table 12 Coolmine, Porterstown and Clonsilla Level Crossing

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Advanced Enabling & Utility Works and traffic diversion	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Erect temporary fence and barrier	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Site clearance	Bulldozer	BS 5228-1:2009 Table C.8:6	78
	Chain Saw	BS 5228-1:2009 Table C.4:72	79
Excavate to foundation level	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
In situ RC pad/spread foundations	Crane	BS 5228-1:2009 Table C.4:43	70
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Install bored pile and pile cap for intermediate pier support	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Construct in situ piers, abutments and crossheads	Crane	BS 5228-1:2009 Table C.4:43	70
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Construct reinforced earth structure along north bank of canal	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
Construct reinforced earth support structure for south ramp Construct retaining wall structure and embankment for north ramp	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Transport prefabricated beams and slab units (on both sides of canal and railway)	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Crane setup, Install precast bridge beams, Install permanent formwork between bridge beams and between piers	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
	Crane	BS 5228-1:2009 Table C.4:43	70
Cast diaphragms	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Install precast deck slab units	Crane	BS 5228-1:2009 Table C.4:43	70
Install insitu deck slab along ramped approaches	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Install precast RC parapet	Crane	BS 5228-1:2009 Table C.4:43	70
Install steel parapets	Crane	BS 5228-1:2009 Table C.4:43	70
	Generator	BS 5228-1:2009 Table C.6:39	65
	Welding Equipment	BS 5228-1:2009 Table C.3:31	73
Install surfacing and drainage	Asphalt Paver	BS 5228-1:2009 Table C.5:32	84
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
Removal of temporary fences and construction of permanent fences	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
	Breaker mounted on Excavator	BS 5228-1:2009 Table C.1:9	90
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Install remaining finishes and lighting	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74

Table 13 Sidings

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Advanced Enabling & Utility Works, Site Preparation Works	Bulldozer	BS 5228-1:2009 Table C.8:6	78
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Excavation on the ground until desired level	Road-Rail Excavator	BS 5228-1:2009 Table C.2:21	71
	Crane on Truck	BS 5228-1:2009 Table C.4:53	77
Extension and compaction of the subgrade/ Extension and compaction of sub-ballast layer/ first ballast layer, levelling and compaction	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Road-Rail Excavator	BS 5228-1:2009 Table C.2:21	71
	Wheeled Loader	BS 5228-1:2009 Table C.4:13	71
	Grader	BS 5228-1:2009 Table C.6:31	86
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
Extension of the geotextile, Placement of longitudinal drainage	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	Plate compactor	BS 5228-1:2009 Table C.2:41	80
Laying of sleepers, rails and clamping the joints	Crane on Truck	BS 5228-1:2009 Table C.4:53	77
	Road-Rail Excavator	BS 5228-1:2009 Table C.2:21	71
Extension of second ballast layer, tamping and dynamic stabilization	Road-Rail Excavator	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Tamper	Estimate	91
Welding of joints and second stabilization	Welding equipment	BS 5228-1:2009 Table C.3:31	73
	Tamper	Estimate	91

Table 14 Barberstown New Bridge

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Advanced Enabling & Utility Works and traffic diversion	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Excavate to a suitable founding level, proof roll and upfill as required	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
Install piled foundations or spread foundation	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
Construct abutments or wingwalls Install precast bridge beams	Crane	BS 5228-1:2009 Table C.4:43	70
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Crane	BS 5228-1:2009 Table C.4:43	70
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Install permanent formwork between bridge beams	Crane	BS 5228-1:2009 Table C.4:43	70
Cast abutment diaphragms	Crane	BS 5228-1:2009 Table C.4:43	70
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Cast deck slab	Crane	BS 5228-1:2009 Table C.4:43	70
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Complete backfilling	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
Install surfacing	Asphalt Paver	BS 5228-1:2009 Table C.5:32	84
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Install barriers	Crane	BS 5228-1:2009 Table C.4:43	70
	Generator	BS 5228-1:2009 Table C.6:39	65
	Welding Equipment	BS 5228-1:2009 Table C.3:31	73

Table 15 Cope Bridge

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Site preparation (Clearance, utility diversions and temporary sheetpile placement)	Saw	BS 5228-1:2009 Table C.4:73	84
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Foundations (piles, excavation and pilecaps) Abutments (construct concrete walls with corten steel finishing)	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete vibrator	BS 5228-1:2009 Table C.4:34	69
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Bentonite plant	BS 5228-1:2009 Table C.4:22	76
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Crane	BS 5228-1:2009 Table C.4:43	70	
Deck placement (corten steel beams, in situ top slab, waterproofing elements)	Welding equipment	BS 5228-1:2009 Table C.3:31	73
	Mobile Crane	BS 5228-1:2009 Table C.4:43	70
	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Connection to existing road (road work, finishings) Reinstallation of diverted utilities	Wheeled Loader	BS 5228-1:2009 Table C.4:13	71
	Grader	BS 5228-1:2009 Table C.6:31	86
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
	Asphalt Paver	BS 5228-1:2009 Table C.5:32	84
	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
Deck (Parapets and finishings)	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69

Table 16 OBG23A Overbridge

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Advanced Enabling & Utility Works and traffic diversion	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
Foundation construction	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:2	78
	Micropiling Rig	BS 5228-1:2009 Table C.3:17	76
	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Piers construction	Crane	BS 5228-1:2009 Table C.4:43	70
	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Abutments construction	Crane	BS 5228-1:2009 Table C.4:43	70
	Concrete mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Deck construction	Crane	BS 5228-1:2009 Table C.4:43	70
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69

Table 17 Depot Construction

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
Advanced Enabling & Utility Works, Site Preparation Works	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
OBG24 Demo	Breaker mounted on Excavator	BS 5228-1:2009 Table C.1:9	90
	Dust Suppression	BS 5228-1:2009 Table C.4:91	78
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
	Crane	BS 5228-1:2009 Table C.4:43	70

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
EarthWorks	Bulldozer	BS 5228-1:2009 Table C.8:6	78
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
Contouring the Subbase (Outer Track)	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
	Grader	BS 5228-1:2009 Table C.6:31	86
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
First Ballast Layer Extension (Outer Track)	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
	Grader	BS 5228-1:2009 Table C.6:31	86
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
Lay sleepers, fix rails (Outer Track)	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
Second ballast layer and topographic alignment (Outer Track)	Road-Rail Excavator	BS 5228-1:2009 Table C.2:14	79
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
	Tamper	Estimate	91
Excavation of foundations (Main Buildings)	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
Construction of foundations (Main Buildings)	Crane	BS 5228-1:2009 Table C.4:43	70
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Columns and Frames and intermediate slabs (Main Buildings)	Crane	BS 5228-1:2009 Table C.4:43	70
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Installation of services (Main Buildings)	Crane	BS 5228-1:2009 Table C.4:43	70
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Roof, façades, finishes (Main Buildings)	Crane	BS 5228-1:2009 Table C.4:43	70
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Excavation of foundations (Other Buildings)	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
Construction of foundations (Other Buildings)	Crane	BS 5228-1:2009 Table C.4:43	70
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
Columns and Frames and intermediate slabs (Other Buildings) Installation of services (Other Buildings)	Crane	BS 5228-1:2009 Table C.4:43	70
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
	Crane	BS 5228-1:2009 Table C.4:43	70
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74

Activity	Equipment	Data Source	Activity dB L _{Aeq,T} at 10m
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Roof, façades, finishes (Other Buildings)	Crane	BS 5228-1:2009 Table C.4:43	70
	HGV	Average of BS 5228-1:2009 Table C.11:4-20	82
Contouring the Subbase (Outer Track)	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
	Grader	BS 5228-1:2009 Table C.6:31	86
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
First Ballast Layer Extension (Outer Track)	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Medium Roller	BS 5228-1:2009 Table C.5:24	84
	Grader	BS 5228-1:2009 Table C.6:31	86
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
Lay sleepers, fix rails (Outer Track)	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
Second ballast layer and topographic alignment (Outer Track)	Road-Rail Excavator	BS 5228-1:2009 Table C.2:14	79
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
	Tamper	Estimate	91
SET	Pile Boring Rig	BS 5228-1:2009 Table C.3:14	83
	Concrete Pump	BS 5228-1:2009 Table C.4:25	82
	Concrete Mixer Truck	BS 5228-1:2009 Table C.4:20	80
	Concrete Vibrator	BS 5228-1:2009 Table C.4:34	69
	Articulated Dump Truck	BS 5228-1:2009 Table C.4:1	81
	360 Excavator (20t)	BS 5228-1:2009 Table C.2:21	71
	Crane on Truck	BS 5228-1:2009 Table C.4:53	77
	Mini-Digger	BS 5228-1:2009 Table C.4:67	74
	Welding Equipment	BS 5228-1:2009 Table C.3:31	73
	Saw	BS 5228-1:2009 Table C.4:73	84
	4 Wheel Platform	BS 5228-1:2009 Table C.4:59	78
Urban development	Mini-Digger	BS 5228-1:2009 Table C.4:67	74