Bonneagar Iompair Éireann
Transport Infrastructure Ireland

Údarás Náisiúnta Iompair
National Transport Authority

Luas Finglas

Environmental Impact Assessment Report 2024

Appendix A15.2: Construction Plan Source Data

BARRY TRANSPORTATION
egis GROUP
egis

Project Ireland 2040
Building Ireland's Future

CONSTRUCTION NOISE SOURCE DATA

The following tables describe the input data for construction activities modelled in the noise and vibration assessment presented in Chapter 15 of Volume 2 of this EIAR.

Table A15-2 Construction Noise Source Levels

Activity	Equipment	Data Source	Activity dB $L_{Aeq,T}$ at 10m
Demolition Works	6 Lorries	Average of lorries within BS 5228-1:2009 + A1:2014 Table C.11	82
	2 Tracked Excavators	BS 5228-1:2009 + A1:2014 Table C.1:12	82
	2 Demolition Track Machines	BS 5228-1:2009 + A1:2014 Table C.1:12	90
	Mobile Crane	BS 5228-1:2009 + A1:2014 Table C.3:29	70
Boundary/Retaining Wall Construction	4 Lorries	Average of lorries within BS 5228-1:2009 + A1:2014 Table C.11	82
	3 Tracked Excavators	BS 5228-1:2009 + A1:2014 Table C.1:12	82
	2 Dumpers	BS 5228-1:2009 + A1:2014 Table C.4:3	76
	2 Rollers	BS 5228-1:2009 + A1:2014 Table C.10:23	80
	Diesel Surface Water Pump	BS 5228-1:2009 + A1:2014 Table C.8:22	71
Drainage and Utility/Ducting Works	5 Lorries	Average of lorries within BS 5228-1:2009 + A1:2014 Table C.11	82
	5 Tracked Excavators	BS 5228-1:2009 + A1:2014 Table C.1:12	82
	2 Dumpers	BS 5228-1:2009 + A1:2014 Table C.4:3	76
	2 Rollers	BS 5228-1:2009 + A1:2014 Table C.10:23	80
	Diesel Surface Water Pump	BS 5228-1:2009 + A1:2014 Table C.8:22	71
	HDD Drilling Machine	BS 5228-1:2009 + A1:2014 Table C.6:35	86
Earthworks	8 Lorries	Average of lorries within BS 5228-1:2009 + A1:2014 Table C.11	82
	3 Tracked Excavators	BS 5228-1:2009 + A1:2014 Table C.1:12	82
	2 Dumpers	BS 5228-1:2009 + A1:2014 Table C.4:3	76
	4 Rollers	BS 5228-1:2009 + A1:2014 Table C.10:23	80
	Diesel Surface Water Pump	BS 5228-1:2009 + A1:2014 Table C.8:22	71
	2 Dozers	BS 5228-1:2009 + A1:2014 Table C.5:13	82
Road Construction	8 Lorries	Average of lorries within BS 5228-1:2009 + A1:2014 Table C.11	82
	3 Tracked Excavators	BS 5228-1:2009 + A1:2014 Table C.1:12	82
	2 Dumpers	BS 5228-1:2009 + A1:2014 Table C.4:3	76
	Mobile Crane	BS 5228-1:2009 + A1:2014 Table C.3:29	70
	2 Road Planers	BS 5228-1:2009 + A1:2014 Table C.5:7	82
	2 Pavers	BS 5228-1:2009 + A1:2014 Table C.5:30	75

Activity	Equipment	Data Source	Activity dB $L_{Aeq,T}$ at 10m
	3 Rollers	BS 5228-1:2009 + A1:2014 Table C.5:19	80
	Road Sweeper	BS 5228-1:2009 + A1:2014 Table C.4:90	76
Principal Structure Works – Royal Canal and Rail Overbridge	4 Lorries	Average of lorries within BS 5228-1:2009 + A1:2014 Table C.11	82
	Mobile Crane	BS 5228-1:2009 + A1:2014 Table C.3:29	70
	Crawler Crane	BS 5228-1:2009 + A1:2014 Table D.4:105a	85
	Rotary Bored Piling Rig	BS 5228-1:2009 + A1:2014 Table C.3:14	83
	3 Tracked Excavator	BS 5228-1:2009 + A1:2014 Table C.1:12	82
	Diesel Surface Water Pump	BS 5228-1:2009 + A1:2014 Table C.8:22	71
	2 Rollers	BS 5228-1:2009 + A1:2014 Table C.5:19	80
	Mobile Concrete Pump	BS 5228-1:2009 + A1:2014 Table C.4:28	75
	2 Telehandlers	BS 5228-1:2009 + A1:2014 Table C.4:54	79
Principal Structure Works – Tolka Valley Park Bridge	4 Lorries	Average of lorries within BS 5228-1:2009 + A1:2014 Table C.11	82
	Mobile Crane	BS 5228-1:2009 + A1:2014 Table C.3:29	70
	Rotary Bored Piling Rig	BS 5228-1:2009 + A1:2014 Table C.3:14	83
	3 Tracked Excavator	BS 5228-1:2009 + A1:2014 Table C.1:12	82
	Diesel Surface Water Pump	BS 5228-1:2009 + A1:2014 Table C.8:22	71
	2 Rollers	BS 5228-1:2009 + A1:2014 Table C.5:19	80
	Mobile Concrete Pump	BS 5228-1:2009 + A1:2014 Table C.4:28	75
	2 Telehandlers	BS 5228-1:2009 + A1:2014 Table C.4:54	79
Principal Structure Works – Royal Canal Pedestrian Overbridge	4 Lorries	Average of lorries within BS 5228-1:2009 + A1:2014 Table C.11	82
	Mobile Crane	BS 5228-1:2009 + A1:2014 Table C.3:29	70
	Water Tanker Extracting Water	BS 5228-1:2009 + A1:2014 Table C4:89	79
	Rotary Bored Piling Rig	BS 5228-1:2009 + A1:2014 Table C.3:14	83
	3 Tracked Excavators	BS 5228-1:2009 + A1:2014 Table C.1:12	82
	2 Rollers	BS 5228-1:2009 + A1:2014 Table C.5:19	80
	Mobile Concrete Pump	BS 5228-1:2009 + A1:2014 Table C.4:28	75
	2 Telehandlers	BS 5228-1:2009 + A1:2014 Table C.4:54	79
Park and Ride Facilities	4 Lorries	Average of lorries within BS 5228-1:2009 + A1:2014 Table C.11	82
	Mobile Crane	BS 5228-1:2009 + A1:2014 Table C.3:29	70
	Water Tanker Extracting Water	BS 5228-1:2009 + A1:2014 Table C4:89	79
	Rotary Bored Piling Rig	BS 5228-1:2009 + A1:2014 Table C.3:14	83

Activity	Equipment	Data Source	Activity dB $L_{Aeq,T}$ at 10m
	4 Tracked Excavators	BS 5228-1:2009 + A1:2014 Table C.1:12	82
	4 Rollers	BS 5228-1:2009 + A1:2014 Table C.5:19	80
	Mobile Concrete Pump	BS 5228-1:2009 + A1:2014 Table C.4:28	75
	Telehandler	BS 5228-1:2009 + A1:2014 Table C.4:54	79
Substation Construction	4 Lorries	Average of lorries within BS 5228-1:2009 + A1:2014 Table C.11	82
	2 Tracked Excavators	BS 5228-1:2009 + A1:2014 Table C.1:12	82
	2 Dumpers	BS 5228-1:2009 + A1:2014 Table C.4:3	76
	2 Rollers	BS 5228-1:2009 + A1:2014 Table C.5:19	80
	Telehandler	BS 5228-1:2009 + A1:2014 Table C.4:54	79
	Mobile Crane	BS 5228-1:2009 + A1:2014 Table C.3:29	70
Track Works (Including Stabling Works)	4 Lorries	Average of lorries within BS 5228-1:2009 + A1:2014 Table C.11	82
	2 Tracked Excavators	BS 5228-1:2009 + A1:2014 Table C.1:12	82
	2 Rollers	BS 5228-1:2009 + A1:2014 Table C.5:19	80
	Grader	BS 5228-1:2009 + A1:2014 Table C.6:31	86
	Welder	BS 5228-1:2009 + A1:2014 Table C3.31	73
	Mobile Crane	BS 5228-1:2009 + A1:2014 Table C3:29	70
OCS (Including P&S Installation)	4 Lorries	Average of lorries within BS 5228-1:2009 + A1:2014 Table C.11	82
	2 Tracked Excavators	BS 5228-1:2009 + A1:2014 Table C.1:12	82
	Mobile Crane	BS 5228-1:2009 + A1:2014 Table C.3:29	70
Stops and Surface Finishing Works	4 Lorries	Average of lorries within BS 5228-1:2009 + A1:2014 Table C.11	82
	2 Tracked Excavators	BS 5228-1:2009 + A1:2014 Table C.1:12	82
	2 Dumpers	BS 5228-1:2009 + A1:2014 Table C.4:3	76
	2 Rollers	BS 5228-1:2009 + A1:2014 Table C.5:19	80
	Telehandler	BS 5228-1:2009 + A1:2014 Table C.4:54	79

Bonneagar Iompair Éireann
Transport Infrastructure Ireland

Údarás Náisiúnta Iompair
National Transport Authority

BARRY TRANSPORTATION
egis GROUP

egis

Project Ireland 2040
Building Ireland's Future