SDCC Rathcoole Housing Development

Volume 2 of the Environmental Impact Assessment Report (EIAR)
Appendix 11.2 Noise and Vibration

South Dublin County Council (SDCC)

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Quality information

Prepared by	Checked by	Verified by	Approved by
Aisha Teffah BSc TechIOA Acoustics Consultant	**Alex Young** MSc CEng MIOA Associate (Acoustics	**Chris Skinner** MSci MA MIOA Regional Director (Acoustics)	Richard O'Callaghan Project Director

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Prepared for:

South Dublin County Council (SDCC)

Prepared by:

AECOM Ireland Limited
4th Floor
One Burlington Plaza
Burlington Road
Dublin 4
D04 RH96
T +353-1-696-6220

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Appendix 11.2.1 Predicted Construction Traffic Flows

Table 1 Baseline and Construction Traffic Flows

Link ID	Link Name	2028 Base AAWT + Committed Development via Coolamber Road	Daily Construction Traffic Flow	Number of Baseline HGVs	% Baseline HGVs	Number of Construction HGVs	% Construction HGVs	% Change in HGVs
1	N7 Naas Bypass East	108849	0	8144	7.5%	0	0%	0.0%
2	Main Street	6265	0	82	1.3%	0	0%	0.0%
3	N7 Naas Bypass West	106563	0	8136	7.6%	0	0%	0.0%
4	Johnstown Road	8682	0	76	0.9%	0	0%	0.0%
5	Main Street	9342	0	100	1.1%	0	0%	0.0%
6	Stoney Lane	4513	100	23	0.5%	40	40%	0.9%
7	Greenogue Drive	367	100	0	0.0%	40	40%	8.6%
8	Mullalys Lane	7	100	0	0.0%	40	40%	37.5%
9	Stoney Hill Road	2999	0	10	0.3%	0	0%	0.0%
10	Peyton Avenue	1600	0	0	0.0%	0	0%	0.0%
11	Main Street	12573	100	127	1.0%	40	40%	0.3%
12	Coolamber Drive	2277	0	25	1.1%	0	0%	0.0%
13	Main Street	12210	100	88	0.7%	40	40%	0.3%
14	R120 Bridge	23676	50	1532	6.5%	20	20%	0.1%
15	R120 Fitzmaurice Road	20122	50	1514	7.5%	20	20%	0.1%
16	Beechwood Lawns	755	0	0	0.0%	0	0%	0.0%
17	R120 Fitzmaurice Road	19951	50	1463	7.3%	20	20%	0.1%
18	N7 Naas Bypass Onslip	4578	0	463	10.1%	0	0%	0.0%
19	N7 Naas Bypass Offslip	8401	50	813	9.7%	20	20%	0.2%
20	Mill Road	10886	0	225	2.1%	0	0%	0.0%

Appendix 11.2.2 Predicted Operational Traffic Flows

Table 2 Opening Year Do Minimum Operational Traffic Flows

Link ID	Link Name	Two Way traffic or one way traffic	2029 Opening Year Do Minimum (School Traffic via Greengogue Drive / Mullalys Lane)				
			All vehicles	%HGV	AAWT HGV	AAWT CAR/LGV	Speed (km/h)
1	N7 Naas Bypass East	2-way	110917	7.5%	8299	102618	100km/h
2	Main Street	2-way	6376	1.3%	83	6293	50km/h
3	N7 Naas Bypass West	2-way	108586	7.6%	8291	100295	100km/h
4	Johnstown Road	2-way	8843	0.9%	77	8765	50km/h
5	Main Street	2-way	9510	1.1%	101	9409	50km/h
6	Stoney Lane	2-way	5208	0.5%	26	5182	50km/h
7	Greenogue Drive	2-way	1438	0.0%	0	1438	30km/h
8	Mullalys Lane	2-way	1071	0.0%	0	1071	30km/h
9	Stoney Hill Road	2-way	3044	0.3%	10	3035	50km/h
10	Peyton Avenue	2-way	1619	0.0%	0	1619	10km/h
11	Main Street	2-way	12735	1.0%	129	12606	50km/h
12	Coolamber Drive	2-way	1232	1.1%	14	1218	30km/h
13	Main Street	2-way	12425	0.7%	90	12336	50km/h
14	R120 Bridge	2-way	24130	6.5%	1561	22568	50km/h
15	R120 Fitzmaurice Road	2-way	20486	7.5%	1542	18945	50km/h
16	Beechwood Lawns	2-way	761	0.0%	0	761	30km/h
17	R120 Fitzmaurice Road	2-way	20041	7.3%	1470	18571	50km/h
18	N7 Naas Bypass Onslip	1-way	4664	10.1%	471	4193	50km/h
19	N7 Naas Bypass Offslip	1-way	8564	9.7%	828	7735	50km/h
20	Mill Road	2-way	11073	2.1%	229	10844	50km/h

Table 3 Opening Year Do Something Operational Traffic Flows

Link ID	Link Name	Two Way traffic or one way traffic	2029 Opening Year Do Something				
			All vehicles	%HGV	AAWT HGV	AAWT CAR/LGV	Speed (km/h)
1	N7 Naas Bypass East	2-way	110923	7.5%	8300	102624	100km/h
2	Main Street	2-way	6403	1.3%	83	6320	50km/h
3	N7 Naas Bypass West	2-way	108606	7.6%	8292	100314	100km/h
4	Johnstown Road	2-way	8892	0.9%	78	8814	50km/h
5	Main Street	2-way	9481	1.1%	101	9380	50km/h
6	Stoney Lane	2-way	5564	0.5%	28	5536	50km/h
7	Greenogue Drive	2-way	1902	0.0%	0	1902	30km/h
8	Mullalys Lane	2-way	1534	0.0%	0	1534	30km/h
9	Stoney Hill Road	2-way	3149	0.3%	10	3139	50km/h
10	Peyton Avenue	2-way	1617	0.0%	0	1617	10km/h
11	Main Street	2-way	12838	1.0%	130	12708	50km/h
12	Coolamber Drive	2-way	1256	1.1%	14	1242	30km/h
13	Main Street	2-way	12683	0.7%	91	12591	50km/h
14	R120 Bridge	2-way	24314	6.5%	1573	22741	50km/h
15	R120 Fitzmaurice Road	2-way	20607	7.5%	1551	19056	50km/h
16	Beechwood Lawns	2-way	763	0.0%	0	763	30km/h
17	R120 Fitzmaurice Road	2-way	20208	7.3%	1482	18726	50km/h
18	N7 Naas Bypass Onslip	1-way	4713	10.1%	476	4237	50km/h
19	N7 Naas Bypass Offslip	1-way	8592	9.7%	831	7760	50km/h
20	Mill Road	2-way	11164	2.1%	231	10933	50km/h

Table 4 Future Year Do Minimum Operational Traffic Flows

Link ID	Link Name	Two Way traffic or one way traffic	2029+15 Year Do Minimum				
			All vehicles	%HGV	AAWT HGV	AAWT CAR/LGV	Speed (km/h)
1	N7 Naas Bypass East	2-way	123810	7.5%	9264	114546	100km/h
2	Main Street	2-way	6979	1.3%	91	6888	50km/h
3	N7 Naas Bypass West	2-way	121234	7.6%	9256	111977	100km/h
4	Johnstown Road	2-way	9797	0.9%	86	9711	50km/h
5	Main Street	2-way	10461	1.1%	111	10350	50km/h
6	Stoney Lane	2-way	5247	0.5%	26	5221	50km/h
7	Greenogue Drive	2-way	413	0.0%	0	413	30km/h
8	Mullalys Lane	2-way	6	0.0%	0	6	30km/h
9	Stoney Hill Road	2-way	3160	0.3%	10	3150	50km/h
10	Peyton Avenue	2-way	1806	0.0%	0	1806	10km/h
11	Main Street	2-way	14038	1.0%	142	13896	50km/h
12	Coolamber Drive	2-way	1374	1.1%	15	1358	30km/h
13	Main Street	2-way	13689	0.7%	99	13591	50km/h
14	R120 Bridge	2-way	26864	6.5%	1738	25126	50km/h
15	R120 Fitzmaurice Road	2-way	22824	7.5%	1718	21107	50km/h
16	Beechwood Lawns	2-way	851	0.0%	0	851	30km/h
17	R120 Fitzmaurice Road	2-way	22318	7.3%	1637	20681	50km/h
18	N7 Naas Bypass Onslip	1-way	5245	10.1%	530	4715	50km/h
19	N7 Naas Bypass Offslip	1-way	9550	9.7%	924	8626	50km/h
20	Mill Road	2-way	12170	2.1%	252	11918	50km/h

Table 5 Future Year Do Something Operational Traffic Flows

Link ID	Link Name	Two Way traffic or one way traffic	2029+15 Year Do Something				
			All vehicles	%HGV	AAWT HGV	AAWT CAR/LGV	Speed (km/h)
1	N7 Naas Bypass East	2-way	123816	7.5%	9264	114552	100km/h
2	Main Street	2-way	7006	1.3%	91	6915	50km/h
3	N7 Naas Bypass West	2-way	121254	7.6%	9258	111996	100km/h
4	Johnstown Road	2-way	9847	0.9%	86	9761	50km/h
5	Main Street	2-way	10516	1.1%	112	10404	50km/h
6	Stoney Lane	2-way	6028	0.5%	30	5998	50km/h
7	Greenogue Drive	2-way	1941	0.0%	0	1941	30km/h
8	Mullalys Lane	2-way	1534	0.0%	0	1534	30km/h
9	Stoney Hill Road	2-way	3478	0.3%	11	3467	50km/h
10	Peyton Avenue	2-way	1805	0.0%	0	1805	10km/h
11	Main Street	2-way	14319	1.0%	145	14174	50km/h
12	Coolamber Drive	2-way	1398	1.1%	16	1382	30km/h
13	Main Street	2-way	13947	0.7%	101	13846	50km/h
14	R120 Bridge	2-way	27049	6.5%	1750	25299	50km/h
15	R120 Fitzmaurice Road	2-way	22945	7.5%	1727	21218	50km/h
16	Beechwood Lawns	2-way	853	0.0%	0	853	30km/h
17	R120 Fitzmaurice Road	2-way	22576	7.3%	1656	20920	50km/h
18	N7 Naas Bypass Onslip	1-way	5294	10.1%	535	4759	50km/h
19	N7 Naas Bypass Offslip	1-way	9579	9.7%	927	8652	50km/h
20	Mill Road	2-way	12261	2.1%	254	12007	50km/h