

Appendix A13.2 Traffic Calculations

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Traffic Calculations for GDD Project
 Site 1 - Clonsaugh Road - Hotel Access Roundabout

At Present AM Peak (08:15 - 09:15)

Seasonally Adjusted 2016

2022 - Year of Phase 1

Region 1 Dublin
 2013 - 2030 index 1.0149 1.0242
 Years 6 6
 Growth Factor 1.093 1.154

Route	A	HSV	B	HSV	C	HSV	D	HSV
A	1	0	27	2	105	18	2	0
B	17	0	0	2	323	3	10	0
C	120	24	151	8	4	2	52	6
D	10	2	12	2	49	6	0	0

Route	A	HSV	B	HSV	C	HSV	D	HSV
A	1	0	30	3	114	18	2	0
B	18	0	0	2	353	3	11	0
C	131	28	165	10	4	2	56	6
D	10	2	13	2	54	6	0	0

2022 - Year of Phase 2

2013 - 2030 index 1.0149 1.0242
 Years 6 6
 Growth Factor 1.093 1.154

Route	A	HSV	B	HSV	C	HSV	D	HSV
A	1	0	30	3	114	18	2	0
B	19	0	0	2	353	3	11	0
C	131	28	165	10	4	2	56	6
D	10	2	13	2	54	6	0	0

2023 - Year of Phase 3

2013 - 2030 index 1.0149 1.0242
 Years 7 7
 Growth Factor 1.109 1.182

Route	A	HSV	B	HSV	C	HSV	D	HSV
A	1	0	33	3	127	22	2	0
B	21	0	0	2	391	4	12	0
C	148	33	183	11	5	2	62	8
D	12	2	15	3	59	8	0	0

2023 - Year of Phase 4

2013 - 2030 index 1.0149 1.0242
 Years 7 7
 Growth Factor 1.109 1.182

Route	A	HSV	B	HSV	C	HSV	D	HSV
A	1	0	33	3	127	22	2	0
B	21	0	0	2	391	4	12	0
C	148	33	183	11	5	2	62	8
D	12	2	15	3	59	8	0	0

2024 - Year of Phase 5

2013 - 2030 index 1.0149 1.0242
 Years 8 8
 Growth Factor 1.126 1.211

Route	A	HSV	B	HSV	C	HSV	D	HSV
A	1	0	37	4	140	26	3	0
B	23	0	0	2	434	5	13	0
C	162	39	203	13	5	2	69	9
D	13	2	16	3	66	9	0	0

AM PEAK GENERATED TRAFFIC
 Site 1 - Clonsaugh Road - Hotel Access Roundabout

WITH CONSTRUCTION TRAFFIC

2022 - Year of Phase 1 + Construction Traffic

Route	A	HSV	B	HSV	C	HSV	D	HSV
A	1	0	30	3	114	18	2	0
B	19	0	0	2	353	3	11	0
C	131	28	165	10	4	2	56	6
D	10	2	13	2	54	6	0	0

2022 - Year of Phase 2 + Construction Traffic

Route	A	HSV	B	HSV	C	HSV	D	HSV
A	1	0	30	3	114	18	2	0
B	19	0	0	2	353	3	11	0
C	131	28	165	10	4	2	56	6
D	10	2	13	2	54	6	0	0

2023 - Year of Phase 3 + Construction Traffic

Route	A	HSV	B	HSV	C	HSV	D	HSV
A	1	0	33	3	127	22	2	0
B	21	0	0	2	391	4	12	0
C	148	33	183	11	5	2	62	8
D	12	2	15	3	59	8	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	HSV	B	HSV	C	HSV	D	HSV
A	1	0	33	3	127	22	2	0
B	21	0	0	2	391	4	12	0
C	148	33	183	11	5	2	62	8
D	12	2	15	3	59	8	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	HSV	B	HSV	C	HSV	D	HSV
A	1	0	37	4	140	26	3	0
B	23	0	0	2	434	5	13	0
C	162	39	203	13	5	2	69	9
D	13	2	16	3	66	9	0	0

Traffic Calculations for GDD Project
Site 1 - Clonsilla Road - Hotel Access Roundabout
At Present PM Peak (16:15 - 17:15)

Seasonally Adjusted 2016

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	1	0	43	0	93	15	1	0
B	20	2	0	0	248	6	7	0
C	100	8	327	3	3	2	56	2
D	5	0	12	0	47	2	1	0

2022 - Year of Phase 1

Region 1		Dublin		LGV	MSV
2013 - 2030 Index				1.0149	1.0242
Years				6	6
Growth Factor				1.093	1.154

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	1	0	46	0	102	17	1	0
B	22	2	0	0	271	7	8	0
C	109	10	357	3	3	2	61	2
D	5	0	13	0	51	2	1	0

2022 - Year of Phase 2

2013 - 2030 Index		LGV	MSV
Years		1.0149	1.0242
Growth Factor		1.093	1.154

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	1	0	46	0	102	17	1	0
B	22	2	0	0	271	7	8	0
C	109	10	357	3	3	2	61	2
D	5	0	13	0	51	2	1	0

2023 - Year of Phase 3

2013 - 2030 Index		LGV	MSV
Years		1.0149	1.0242
Growth Factor		1.109	1.182

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	1	0	52	0	113	20	1	0
B	24	2	0	0	301	8	8	0
C	121	11	396	4	4	2	68	3
D	6	0	15	0	57	3	1	0

2023 - Year of Phase 4

2013 - 2030 Index		LGV	MSV
Years		1.0149	1.0242
Growth Factor		1.109	1.182

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	1	0	52	0	113	20	1	0
B	24	2	0	0	301	8	8	0
C	121	11	396	4	4	2	68	3
D	6	0	15	0	57	3	1	0

2024 - Year of Phase 5

2013 - 2030 Index		LGV	MSV
Years		1.0149	1.0242
Growth Factor		1.126	1.211

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	1	0	57	0	125	23	1	0
B	27	2	0	0	333	10	9	0
C	134	14	439	5	4	2	75	3
D	7	0	16	0	63	3	1	0

AM PEAK GENERATED TRAFFIC

Site 1 - Clonsilla Road - Hotel Access Roundabout

WITH CONSTRUCTION TRAFFIC

2022 - Year of Phase 1 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	1	0	46	0	102	17	1	0
B	22	2	0	0	348	23	8	0
C	109	10	357	3	3	2	61	2
D	5	0	13	0	51	2	1	0

2022 - Year of Phase 2 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	1	0	46	0	102	17	1	0
B	22	2	0	0	337	20	8	0
C	109	10	357	3	3	2	61	2
D	5	0	13	0	51	2	1	0

2023 - Year of Phase 3 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	1	0	52	0	113	20	1	0
B	24	2	0	0	368	21	8	0
C	121	11	396	4	4	2	68	3
D	6	0	15	0	57	3	1	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	1	0	52	0	113	20	1	0
B	24	2	0	0	368	21	8	0
C	121	11	396	4	4	2	68	3
D	6	0	15	0	57	3	1	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	1	0	57	0	125	23	1	0
B	27	2	0	0	399	23	9	0
C	134	14	439	5	4	2	75	3
D	7	0	16	0	63	3	1	0

Traffic Calculations for GDD Project
Site 2 - N32 - Clonsilla Road - Roundabout
At Present AM Peak (07:45 - 08:45)

Seasonally Adjusted 2016

2022 - Year of Phase 1

Region 1 Dublin
 2013 - 2030 Index 1.0149 1.0242
 Years 6 6
Growth Factor 1.093 1.154

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	215	14	0	0	210	22
B	125	8	17	2	0	0	1885	148
C	0	0	0	0	0	0	0	0
D	130	16	1964	112	0	0	2	0

2022 - Year of Phase 2

2013 - 2030 Index 1.0149 1.0242
 Years 6 6
Growth Factor 1.093 1.154

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	235	16	0	0	230	25
B	136	10	19	3	0	0	2038	168
C	0	0	0	0	0	0	0	0
D	131	17	2136	135	0	0	2	0

2023 - Year of Phase 3

2013 - 2030 Index 1.0149 1.0242
 Years 7 7
Growth Factor 1.109 1.182

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	260	19	0	0	255	29
B	151	11	21	3	0	0	2281	199
C	0	0	0	0	0	0	0	0
D	145	21	2369	150	0	0	2	0

2023 - Year of Phase 4

2013 - 2030 Index 1.0149 1.0242
 Years 7 7
Growth Factor 1.109 1.182

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	260	19	0	0	255	29
B	151	11	21	3	0	0	2281	199
C	0	0	0	0	0	0	0	0
D	145	21	2369	150	0	0	2	0

2024 - Year of Phase 5

2013 - 2030 Index 1.0149 1.0242
 Years 8 8
Growth Factor 1.126 1.211

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	289	22	0	0	282	35
B	167	13	23	4	0	0	2507	235
C	0	0	0	0	0	0	0	0
D	161	24	2627	188	0	0	3	0

AM PEAK GENERATED TRAFFIC

Site 2 - N32 - Clonsilla Road - Roundabout

WITH CONSTRUCTION TRAFFIC

2022 - Year of Phase 1 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	235	16	0	0	230	41
B	136	10	19	3	0	0	2038	168
C	0	0	0	0	0	0	0	0
D	131	17	2212	151	0	0	2	0

2022 - Year of Phase 2 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	235	16	0	0	230	38
B	136	10	19	3	0	0	2038	173
C	0	0	0	0	0	0	0	0
D	131	17	2236	153	0	0	2	0

2023 - Year of Phase 3 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	260	19	0	0	255	43
B	151	11	21	3	0	0	2281	204
C	0	0	0	0	0	0	0	0
D	145	21	2465	178	0	0	2	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	260	19	0	0	255	43
B	151	11	21	3	0	0	2281	204
C	0	0	0	0	0	0	0	0
D	145	21	2465	178	0	0	2	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	289	22	0	0	282	48
B	167	13	23	4	0	0	2507	239
C	0	0	0	0	0	0	0	0
D	161	24	2715	205	0	0	3	0

Traffic Calculations for GDD Project
Site 2 - N32 - Clonsilla Road - Roundabout
At Present PM Peak (16:15 - 17:15)

Seasonally Adjusted 2016

2022 - Year of Phase 1

Region 1 Dublin
 2013 - 2030 Index 1.0149 1.0242
 Years 6 6
Growth Factor 1.093 1.154

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	216	9	0	0	167	18
B	267	5	25	0	0	0	1938	136
C	0	0	0	0	0	0	0	0
D	192	10	1861	89	0	0	3	2

2022 - Year of Phase 2

2013 - 2030 Index 1.0149 1.0242
 Years 6 6
Growth Factor 1.093 1.154

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	236	11	0	0	182	21
B	292	6	27	0	0	0	2118	157
C	0	0	0	0	0	0	0	0
D	209	11	2066	102	0	0	3	2

2023 - Year of Phase 3

2013 - 2030 Index 1.0149 1.0242
 Years 7 7
Growth Factor 1.109 1.182

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	261	12	0	0	202	24
B	323	7	30	0	0	0	2349	185
C	0	0	0	0	0	0	0	0
D	232	13	2292	121	0	0	4	2

2023 - Year of Phase 4

2013 - 2030 Index 1.0149 1.0242
 Years 7 7
Growth Factor 1.109 1.182

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	261	12	0	0	202	24
B	323	7	30	0	0	0	2349	185
C	0	0	0	0	0	0	0	0
D	232	13	2292	121	0	0	4	2

2024 - Year of Phase 5

2013 - 2030 Index 1.0149 1.0242
 Years 8 8
Growth Factor 1.126 1.211

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	290	15	0	0	224	29
B	359	9	34	0	0	0	2626	215
C	0	0	0	0	0	0	0	0
D	257	15	2541	143	0	0	4	2

PM PEAK GENERATED TRAFFIC
Site 2 - N32 - Clonsilla Road - Roundabout
WITH CONSTRUCTION TRAFFIC

2022 - Year of Phase 1 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	236	11	0	0	258	31
B	292	6	27	0	0	0	2118	157
C	0	0	0	0	0	0	0	0
D	209	11	2066	119	0	0	3	2

2022 - Year of Phase 2 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	236	11	0	0	248	34
B	292	6	27	0	0	0	2153	162
C	0	0	0	0	0	0	0	0
D	209	11	2066	121	0	0	3	2

2023 - Year of Phase 3 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	261	12	0	0	267	38
B	323	7	30	0	0	0	2379	191
C	0	0	0	0	0	0	0	0
D	232	13	2292	140	0	0	4	2

2023 - Year of Phase 4 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	261	12	0	0	267	38
B	323	7	30	0	0	0	2379	191
C	0	0	0	0	0	0	0	0
D	232	13	2292	140	0	0	4	2

2024 - Year of Phase 5 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	290	15	0	0	289	42
B	359	9	34	0	0	0	2627	223
C	0	0	0	0	0	0	0	0
D	257	15	2541	161	0	0	4	2

Traffic Calculations for GDD Project
Site 5 - N32 - R107 - Roundabout
At Present AM Peak (07:45 - 08:45)

Seasonally Adjusted 2016

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	52	6	726	23	264	21
B	72	5	0	0	352	40	665	60
C	402	21	214	22	0	0	510	61
D	214	37	594	39	438	42	0	0

2022 - Year of Phase 1

Region 1		Dublin		LGV	MSV
2013 - 2030 Index				1.0149	1.0242
Years				6	6
Growth Factor				1.093	1.154

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	57	7	793	27	289	24
B	75	6	0	0	384	56	726	70
C	440	24	233	25	0	0	558	71
D	234	43	649	45	476	48	0	0

2022 - Year of Phase 2

Region 1		Dublin		LGV	MSV
2013 - 2030 Index				1.0149	1.0242
Years				6	6
Growth Factor				1.093	1.154

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	57	7	793	27	289	24
B	75	6	0	0	384	56	726	70
C	440	24	233	25	0	0	558	71
D	234	43	649	45	476	48	0	0

2023 - Year of Phase 3

Region 1		Dublin		LGV	MSV
2013 - 2030 Index				1.0149	1.0242
Years				7	7
Growth Factor				1.109	1.182

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	63	8	880	32	320	28
B	88	7	0	0	426	66	826	82
C	488	29	259	30	0	0	618	84
D	259	50	719	53	528	57	0	0

2023 - Year of Phase 4

Region 1		Dublin		LGV	MSV
2013 - 2030 Index				1.0149	1.0242
Years				7	7
Growth Factor				1.109	1.182

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	63	8	880	32	320	28
B	88	7	0	0	426	66	826	82
C	488	29	259	30	0	0	618	84
D	259	50	719	53	528	57	0	0

2024 - Year of Phase 5

Region 1		Dublin		LGV	MSV
2013 - 2030 Index				1.0149	1.0242
Years				8	8
Growth Factor				1.126	1.211

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	70	9	975	37	355	33
B	97	9	0	0	473	78	893	97
C	541	34	287	35	0	0	686	99
D	288	60	798	63	686	67	0	0

AM PEAK GENERATED TRAFFIC

Site 5 - N32 - R107 - Roundabout

WITH CONSTRUCTION TRAFFIC

2022 - Year of Phase 2 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	57	7	793	27	289	29
B	79	6	0	0	384	56	726	70
C	440	24	233	25	0	0	558	71
D	259	48	649	45	476	48	0	0

2023 - Year of Phase 3 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	63	8	880	32	320	34
B	88	7	0	0	426	66	826	82
C	488	29	259	30	0	0	618	84
D	290	56	719	53	528	57	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	63	8	880	32	320	34
B	88	7	0	0	426	66	826	82
C	488	29	259	30	0	0	618	84
D	290	56	719	53	528	57	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	70	9	975	37	378	36
B	97	9	0	0	473	78	893	97
C	541	34	287	35	0	0	686	99
D	288	64	798	63	686	67	0	0

Traffic Calculations for GDD Project
Site 5 - N32 - R167 - Roundabout
At Present PM Peak (16:15 - 17:15)

Seasonally Adjusted 2016

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	70	0	484	23	250	23
B	84	2	0	0	303	29	626	51
C	651	21	384	29	0	0	637	33
D	211	26	922	46	438	17	0	0

2022 - Year of Phase 1

Region 1		Dublin		LGV	MSV
2013 - 2030 Index				1.0149	1.0242
Years				6	6
Growth Factor				1.093	1.154

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	77	0	529	27	273	26
B	70	2	0	0	337	34	684	59
C	711	24	431	33	0	0	696	38
D	231	30	647	53	480	19	0	0

2022 - Year of Phase 2

2013 - 2030 Index		LGV	MSV
		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	77	0	529	27	273	26
B	70	2	0	0	337	34	684	59
C	711	24	431	33	0	0	696	38
D	231	30	647	53	480	19	0	0

2023 - Year of Phase 3

2013 - 2030 Index		LGV	MSV
		1.0149	1.0242
Years		7	7
Growth Factor		1.109	1.182

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	85	0	586	32	303	31
B	78	2	0	0	374	40	759	70
C	788	28	477	40	0	0	772	45
D	256	35	717	63	532	23	0	0

2023 - Year of Phase 4

2013 - 2030 Index		LGV	MSV
		1.0149	1.0242
Years		7	7
Growth Factor		1.109	1.182

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	85	0	586	32	303	31
B	78	2	0	0	374	40	759	70
C	788	28	477	40	0	0	772	45
D	256	35	717	63	532	23	0	0

2024 - Year of Phase 5

2013 - 2030 Index		LGV	MSV
		1.0149	1.0242
Years		8	8
Growth Factor		1.126	1.211

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	94	0	650	37	336	37
B	86	2	0	0	415	47	842	82
C	874	33	530	47	0	0	856	53
D	284	42	795	74	600	27	0	0

AM PEAK GENERATED TRAFFIC

Site 5 - N32 - R167 - Roundabout

WITH CONSTRUCTION TRAFFIC

2022 - Year of Phase 2 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	77	0	529	27	308	31
B	70	2	0	0	337	34	684	59
C	711	24	431	33	0	0	696	38
D	231	35	647	53	480	19	0	0

2023 - Year of Phase 3 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	85	0	586	32	334	37
B	78	2	0	0	374	40	759	70
C	788	28	477	40	0	0	772	45
D	256	41	717	63	532	23	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	85	0	586	32	334	37
B	78	2	0	0	374	40	759	70
C	788	28	477	40	0	0	772	45
D	256	41	717	63	532	23	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	MSV	B	MSV	C	MSV	D	MSV
A	0	0	94	0	650	37	336	41
B	86	2	0	0	415	47	842	82
C	874	33	530	47	0	0	856	53
D	305	45	795	74	600	27	0	0

Traffic Calculations for GDD Project
Site 8 - R106 - R108 Priority Jn
At Present AM Peak (08:15 - 09:15)

Seasonally Adjusted 2016

Route	A	HGV	B	HGV	C	HGV
A	0	0	258	16	304	30
B	154	20	0	0	29	6
C	470	37	157	10	0	0

2022 - Year of Phase 1

Region 1		LGV	HGV
Dublin		1,0149	1,0242
2013 - 2030 index			
Years	6	6	
Growth Factor	1.093	1.154	

Route	A	HGV	B	HGV	C	HGV
A	0	0	282	19	332	35
B	168	23	0	0	32	7
C	514	42	172	12	0	0

2022 - Year of Phase 2

		LGV	HGV
2013 - 2030 index		1,0149	1,0242
Years	6	6	
Growth Factor	1.093	1.154	

Route	A	HGV	B	HGV	C	HGV
A	0	0	282	19	332	35
B	168	23	0	0	32	7
C	514	42	172	12	0	0

2023 - Year of Phase 3

		LGV	HGV
2013 - 2030 index		1,0149	1,0242
Years	7	7	
Growth Factor	1.109	1.182	

Route	A	HGV	B	HGV	C	HGV
A	0	0	312	22	368	41
B	187	27	0	0	35	8
C	570	50	190	14	0	0

2023 - Year of Phase 4

		LGV	HGV
2013 - 2030 index		1,0149	1,0242
Years	7	7	
Growth Factor	1.109	1.182	

Route	A	HGV	B	HGV	C	HGV
A	0	0	312	22	368	41
B	187	27	0	0	35	8
C	570	50	190	14	0	0

2024 - Year of Phase 5

		LGV	HGV
2013 - 2030 index		1,0149	1,0242
Years	8	8	
Growth Factor	1.126	1.211	

Route	A	HGV	B	HGV	C	HGV
A	0	0	346	26	408	48
B	207	32	0	0	39	10
C	632	59	211	17	0	0

AM PEAK GENERATED TRAFFIC

Site 8 - R106 - R108 Priority Jn

WITH CONSTRUCTION TRAFFIC

2022 - Year of Phase 2 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	282	19	332	35
B	168	23	0	0	32	9
C	514	42	172	14	0	0

2023 - Year of Phase 3 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	312	22	368	41
B	187	27	0	0	55	9
C	570	50	190	15	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	312	22	368	41
B	187	27	0	0	55	9
C	570	50	190	15	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	346	26	408	48
B	207	32	0	0	51	10
C	632	59	211	17	0	0

Traffic Calculations for GDD Project
Site 8 - R106 - R108 Priority Jn
At Present PM Peak 17:15 - 18:15

Seasonally Adjusted 2016

Route	A	HGV	B	HGV	C	HGV
A	0	0	129	5	357	13
B	131	5	0	0	52	0
C	396	17	81	2	0	0

2022 - Year of Phase 1

Region 1	Dublin	LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	141	6	390	15
B	143	6	0	0	57	0
C	433	20	89	2	0	0

2022 - Year of Phase 2

Region 1	Dublin	LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	141	6	390	15
B	143	6	0	0	57	0
C	433	20	89	2	0	0

2023 - Year of Phase 3

Region 1	Dublin	LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		7	7
Growth Factor		1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	157	7	432	18
B	158	7	0	0	63	0
C	480	23	98	2	0	0

2023 - Year of Phase 4

Region 1	Dublin	LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		7	7
Growth Factor		1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	157	7	432	18
B	158	7	0	0	63	0
C	480	23	98	2	0	0

2024 - Year of Phase 5

Region 1	Dublin	LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		8	8
Growth Factor		1.126	1.211

Route	A	HGV	B	HGV	C	HGV
A	0	0	174	9	480	21
B	175	9	0	0	70	0
C	533	27	109	2	0	0

AM PEAK GENERATED TRAFFIC
Site 8 - R106 - R108 Priority Jn
WITH CONSTRUCTION TRAFFIC

2022 - Year of Phase 2 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	141	6	390	15
B	143	6	0	0	57	2
C	433	20	89	4	0	0

2023 - Year of Phase 3 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	157	7	432	18
B	158	7	0	0	63	1
C	480	23	118	3	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	157	7	432	18
B	158	7	0	0	63	1
C	480	23	118	3	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	174	9	480	21
B	175	9	0	0	70	1
C	533	27	121	3	0	0

Traffic Calculations for GDD Project
Site 9 - R106 - Golf Link Rd Priority Jn
At Present AM Peak (08:15 - 09:15)

Seasonally Adjusted 2016

Route	A	HGV	B	HGV	C	HGV
A	0	0	16	2	634	49
B	5	4	0	0	26	3
C	480	49	30	4	0	0

2022 - Year of Phase 1

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	17	2	693	46
B	5	4	0	0	28	3
C	525	56	33	4	0	0

2022 - Year of Phase 2

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	17	2	693	46
B	5	4	0	0	28	3
C	525	56	33	4	0	0

2023 - Year of Phase 3

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		7	7
Growth Factor		1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	19	2	768	55
B	6	5	0	0	32	4
C	582	67	36	5	0	0

2023 - Year of Phase 4

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		7	7
Growth Factor		1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	19	2	768	55
B	6	5	0	0	32	4
C	582	67	36	5	0	0

2024 - Year of Phase 5

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		8	8
Growth Factor		1.126	1.211

Route	A	HGV	B	HGV	C	HGV
A	0	0	22	2	852	65
B	7	6	0	0	35	5
C	646	79	40	6	0	0

AM PEAK GENERATED TRAFFIC
Site 9 - R106 - Golf Link Rd Priority Jn
WITH CONSTRUCTION TRAFFIC

2023 - Year of Phase 3 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	19	2	768	55
B	6	5	0	0	32	6
C	582	67	36	7	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	19	2	768	55
B	6	5	0	0	32	6
C	582	67	36	7	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	22	2	852	66
B	7	6	0	0	35	5
C	646	79	52	7	0	0

Traffic Calculations for GDD Project
Site 9 - R106 - Golf Link Rd Priority Jn
At Present AM Peak (17:30 - 18:30)

Seasonally Adjusted 2016

Route	A	HGV	B	HGV	C	HGV
A	0	0	36	0	452	12
B	27	0	0	0	55	2
C	652	16	48	0	0	0

2022 - Year of Phase 1

Region 1	Dublin	LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	39	0	494	13
B	30	0	0	0	60	2
C	713	18	53	0	0	0

2022 - Year of Phase 2

2013 - 2030 Index	LGV	HGV
	1.0149	1.0242
Years	6	6
Growth Factor	1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	39	0	494	13
B	30	0	0	0	60	2
C	713	18	53	0	0	0

2023 - Year of Phase 3

2013 - 2030 Index	LGV	HGV
	1.0149	1.0242
Years	7	7
Growth Factor	1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	44	0	547	16
B	33	0	0	0	67	3
C	791	21	58	0	0	0

2023 - Year of Phase 4

2013 - 2030 Index	LGV	HGV
	1.0149	1.0242
Years	7	7
Growth Factor	1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	44	0	547	16
B	33	0	0	0	67	3
C	791	21	58	0	0	0

2024 - Year of Phase 5

2013 - 2030 Index	LGV	HGV
	1.0149	1.0242
Years	8	8
Growth Factor	1.126	1.211

Route	A	HGV	B	HGV	C	HGV
A	0	0	48	0	607	19
B	37	0	0	0	74	3
C	877	25	65	0	0	0

AM PEAK GENERATED TRAFFIC
Site 9 - R106 - Golf Link Rd Priority Jn
WITH CONSTRUCTION TRAFFIC

2023 - Year of Phase 3 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	44	0	547	16
B	33	0	0	0	67	5
C	791	21	58	2	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	44	0	547	16
B	33	0	0	0	67	5
C	791	21	58	2	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	48	0	607	19
B	37	0	0	0	66	4
C	877	25	65	1	0	0

Traffic Calculations for GDD Project
Site 10 - R106 - Station Rd Roundabout
At Present AM Peak (08:00 - 09:00)

Seasonally Adjusted 2016

Route	A	HGV	B	HGV	C	HGV
A	0	0	108	5	224	27
B	227	14	0	0	252	17
C	444	33	215	11	1	2

2022 - Year of Phase 1

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	116	6	245	31
B	249	16	0	0	276	19
C	485	38	235	13	1	2

2022 - Year of Phase 2

2013 - 2030 index	LGV	HGV
	1.0149	1.0242
Years	6	6
Growth Factor	1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	116	6	245	31
B	249	16	0	0	276	19
C	485	38	235	13	1	2

2023 - Year of Phase 3

2013 - 2030 index	LGV	HGV
	1.0149	1.0242
Years	7	7
Growth Factor	1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	128	7	272	37
B	276	19	0	0	306	23
C	538	45	260	15	1	2

2023 - Year of Phase 4

2013 - 2030 index	LGV	HGV
	1.0149	1.0242
Years	7	7
Growth Factor	1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	128	7	272	37
B	276	19	0	0	306	23
C	538	45	260	15	1	2

2024 - Year of Phase 5

2013 - 2030 index	LGV	HGV
	1.0149	1.0242
Years	8	8
Growth Factor	1.126	1.211

Route	A	HGV	B	HGV	C	HGV
A	0	0	142	9	301	43
B	306	23	0	0	339	27
C	596	54	289	18	1	2

AM PEAK GENERATED TRAFFIC
Site 10 - R106 - Station Rd Roundabout
WITH CONSTRUCTION TRAFFIC

2022 - Year of Phase 2 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	116	6	245	31
B	249	19	0	0	276	19
C	485	38	235	13	1	2

2023 - Year of Phase 3 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	128	8	292	37
B	276	20	0	0	306	25
C	538	45	260	18	1	2

2023 - Year of Phase 4 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	128	8	292	37
B	276	20	0	0	306	25
C	538	45	260	18	1	2

2024 - Year of Phase 5 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	142	9	301	43
B	306	23	0	0	339	28
C	608	54	289	19	1	2

Traffic Calculations for GDD Project
Site 10 - R106 - Station Rd Roundabout
At Present AM Peak (17:30 - 18:30)

Seasonally Adjusted 2016

Route	A	HGV	B	HGV	C	HGV
A	0	0	102	3	328	14
B	152	0	1	0	367	5
C	328	14	171	0	2	0

2022 - Year of Phase 1

Region 1		LGV	HGV
Dublin			
2013 - 2030 Index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	111	3	359	16
B	166	0	1	0	401	6
C	359	16	186	0	2	0

2022 - Year of Phase 2

		LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	111	3	359	16
B	166	0	1	0	401	6
C	359	16	186	0	2	0

2023 - Year of Phase 3

		LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		7	7
Growth Factor		1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	123	4	398	18
B	184	0	1	0	445	7
C	398	18	207	0	2	0

2023 - Year of Phase 4

		LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		7	7
Growth Factor		1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	123	4	398	18
B	184	0	1	0	445	7
C	398	18	207	0	2	0

2024 - Year of Phase 5

		LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		8	8
Growth Factor		1.126	1.211

Route	A	HGV	B	HGV	C	HGV
A	0	0	137	5	441	22
B	204	0	1	0	494	8
C	441	22	229	0	3	0

AM PEAK GENERATED TRAFFIC

Site 10 - R106 - Station Rd Roundabout

WITH CONSTRUCTION TRAFFIC

2022 - Year of Phase 2 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	111	6	359	16
B	166	2	1	0	401	6
C	359	16	186	0	2	0

2023 - Year of Phase 3 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	123	5	398	18
B	184	1	1	0	445	9
C	418	18	207	2	2	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	123	5	398	18
B	184	1	1	0	445	9
C	418	18	207	2	2	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	137	6	453	22
B	204	1	1	0	494	9
C	441	22	229	1	3	0

Traffic Calculations for GDD Project
 Site 11 - Snugborough Rd - Aquatic Centre Signalised Jn
 At Present AM Peak (07:45 - 08:45)

Seasonally Adjusted 2016

Route	A	HGV	B	HGV	C	HGV
A	0	0	49	7	359	197
B	30	4	0	0	34	0
C	865	102	65	3	0	0

611
1036
1714

2022 - Year of Phase 1

Region 1	Dublin	LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	54	8	392	227
B	33	4	0	0	37	0
C	946	117	71	3	0	0

2022 - Year of Phase 2

Region 1	Dublin	LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	54	8	392	227
B	33	4	0	0	37	0
C	946	117	71	3	0	0

2023 - Year of Phase 3

Region 1	Dublin	LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		7	7
Growth Factor		1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	59	9	435	268
B	36	5	0	0	41	0
C	1049	139	79	4	0	0

2023 - Year of Phase 4

Region 1	Dublin	LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		7	7
Growth Factor		1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	59	9	435	268
B	36	5	0	0	41	0
C	1049	139	79	4	0	0

2024 - Year of Phase 5

Region 1	Dublin	LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		8	8
Growth Factor		1.126	1.211

Route	A	HGV	B	HGV	C	HGV
A	0	0	66	11	482	317
B	40	6	0	0	46	0
C	1163	164	87	5	0	0

AM PEAK GENERATED TRAFFIC

Site 11 - Snugborough Rd - Aquatic Centre Signalised Jn

WITH CONSTRUCTION TRAFFIC

2023 - Year of Phase 3 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	59	9	435	271
B	36	5	0	0	41	0
C	1053	142	79	4	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	59	9	438	271
B	36	5	0	0	41	1
C	1049	142	87	5	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	66	11	482	320
B	40	6	0	0	46	1
C	1167	167	96	6	0	0

Traffic Calculations for GDD Project
Site 11 - Snugborough Rd - Aquatic Centre Signalised Jn
At Present AM Peak (17:00 - 18:00)

Seasonally Adjusted 2016

Route	A	HGV	B	HGV	C	HGV
A	0	0	83	0	782	62
B	71	0	0	0	178	2
C	238	103	99	0	0	0

306
250
440
1596

2022 - Year of Phase 1

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	90	0	833	71
B	78	0	0	0	194	2
C	260	118	108	0	0	0

2022 - Year of Phase 2

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	90	0	833	71
B	78	0	0	0	194	2
C	260	118	108	0	0	0

2023 - Year of Phase 3

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		7	7
Growth Factor		1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	100	0	923	84
B	86	0	0	0	216	2
C	288	140	120	0	0	0

2023 - Year of Phase 4

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		7	7
Growth Factor		1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	100	0	923	84
B	86	0	0	0	216	2
C	288	140	120	0	0	0

2024 - Year of Phase 5

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		8	8
Growth Factor		1.126	1.211

Route	A	HGV	B	HGV	C	HGV
A	0	0	111	0	1024	100
B	95	0	0	0	239	2
C	320	165	133	0	0	0

AM PEAK GENERATED TRAFFIC
Site 11 - Snugborough Rd - Aquatic Centre Signalised Jn
WITH CONSTRUCTION TRAFFIC

2023 - Year of Phase 3 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	100	0	927	87
B	86	0	0	0	216	3
C	288	143	120	0	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	100	0	923	87
B	86	0	0	0	224	3
C	292	143	120	1	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	111	0	1028	103
B	95	0	0	0	248	4
C	320	168	133	1	0	0

Traffic Calculations for GDD Project
 Site 12 - Snugborough Rd - Existing Gateway Priority Jn
 At Present AM Peak (08:00 - 09:00)

Seasonally Adjusted 2016

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	416	224
B	0	0	0	0	0	0
C	820	119	0	0	0	0

640
939
1079

2022 - Year of Phase 1

Region 1		Dublin	LGV	HGV
2013 - 2030 Index			1.0149	1.0242
Years		6	6	
Growth Factor			1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	454	259
B	0	0	0	0	0	0
C	896	137	0	0	0	0

2022 - Year of Phase 2

Region 1		Dublin	LGV	HGV
2013 - 2030 Index			1.0149	1.0242
Years		6	6	
Growth Factor			1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	454	259
B	0	0	0	0	0	0
C	896	137	0	0	0	0

2023 - Year of Phase 3

Region 1		Dublin	LGV	HGV
2013 - 2030 Index			1.0149	1.0242
Years		7	7	
Growth Factor			1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	504	306
B	0	0	0	0	0	0
C	994	162	0	0	0	0

2023 - Year of Phase 4

Region 1		Dublin	LGV	HGV
2013 - 2030 Index			1.0149	1.0242
Years		7	7	
Growth Factor			1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	504	306
B	0	0	0	0	0	0
C	994	162	0	0	0	0

2024 - Year of Phase 5

Region 1		Dublin	LGV	HGV
2013 - 2030 Index			1.0149	1.0242
Years		8	8	
Growth Factor			1.126	1.211

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	559	362
B	0	0	0	0	0	0
C	1102	162	0	0	0	0

AM PEAK GENERATED TRAFFIC
 Site 12 - Snugborough Rd - Existing Gateway Priority Jn
 WITH CONSTRUCTION TRAFFIC

2023 - Year of Phase 3 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	527	309
B	0	0	0	0	0	0
C	994	165	0	0	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	504	309
B	0	0	0	0	0	0
C	998	165	0	0	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	559	365
B	0	0	0	0	0	0
C	1106	195	0	0	0	0

Traffic Calculations for GDD Project
 Site 12 - Snugborough Rd - Existing Gateway Priority Jn
 At Present PM Peak (16:00 - 17:00)

Seasonally Adjusted 2016

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	774	142
B	0	0	0	0	0	0
C	245	93	0	0	0	0

915
337
1292

2022 - Year of Phase 1

Region 1		Dublin	LGV	HGV
2013 - 2030 Index			1.0149	1.0242
Years		6	6	6
Growth Factor			1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	845	163
B	0	0	0	0	0	0
C	267	107	0	0	0	0

2022 - Year of Phase 2

Region 1		Dublin	LGV	HGV
2013 - 2030 Index			1.0149	1.0242
Years		6	6	6
Growth Factor			1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	845	163
B	0	0	0	0	0	0
C	267	107	0	0	0	0

2023 - Year of Phase 3

Region 1		Dublin	LGV	HGV
2013 - 2030 Index			1.0149	1.0242
Years		7	7	7
Growth Factor			1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	938	193
B	0	0	0	0	0	0
C	296	126	0	0	0	0

2023 - Year of Phase 4

Region 1		Dublin	LGV	HGV
2013 - 2030 Index			1.0149	1.0242
Years		7	7	7
Growth Factor			1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	938	193
B	0	0	0	0	0	0
C	296	126	0	0	0	0

2024 - Year of Phase 5

Region 1		Dublin	LGV	HGV
2013 - 2030 Index			1.0149	1.0242
Years		8	8	8
Growth Factor			1.126	1.211

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1040	228
B	0	0	0	0	0	0
C	329	149	0	0	0	0

AM PEAK GENERATED TRAFFIC
 Site 12 - Snugborough Rd - Existing Gateway Priority Jn
 WITH CONSTRUCTION TRAFFIC

2023 - Year of Phase 3 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	938	196
B	0	0	0	0	0	0
C	300	129	0	0	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	941	196
B	0	0	0	0	0	0
C	296	129	0	0	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1044	231
B	0	0	0	0	0	0
C	329	152	0	0	0	0

Traffic Calculations for GDD Project
Site A - Proposed Junction Exit Only onto Clonshaugh Road Priority Jn
At Present AM Peak (08:00 - 09:00)

Seasonally Adjusted 2016

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	313	47
B	0	0	0	0	0	0
C	157	29	0	0	0	0

2022 - Year of Phase 1

Region 1	Dublin	LGV	HGV
2013 - 2030 Index	1.0149	1.0242	
Years	6	6	
Growth Factor	1.093	1.154	

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	342	55
B	0	0	0	0	0	0
C	172	33	0	0	0	0

2022 - Year of Phase 2

Region 1	Dublin	LGV	HGV
2013 - 2030 Index	1.0149	1.0242	
Years	6	6	
Growth Factor	1.093	1.154	

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	342	55
B	0	0	0	0	0	0
C	172	33	0	0	0	0

2023 - Year of Phase 3

Region 1	Dublin	LGV	HGV
2013 - 2030 Index	1.0149	1.0242	
Years	7	7	
Growth Factor	1.109	1.182	

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	379	65
B	0	0	0	0	0	0
C	190	39	0	0	0	0

2023 - Year of Phase 4

Region 1	Dublin	LGV	HGV
2013 - 2030 Index	1.0149	1.0242	
Years	7	7	
Growth Factor	1.109	1.182	

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	379	65
B	0	0	0	0	0	0
C	190	39	0	0	0	0

2024 - Year of Phase 5

Region 1	Dublin	LGV	HGV
2013 - 2030 Index	1.0149	1.0242	
Years	8	8	
Growth Factor	1.126	1.211	

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	420	76
B	0	0	0	0	0	0
C	211	46	0	0	0	0

AM PEAK GENERATED TRAFFIC
Site A - Proposed Junction Exit Only onto Clonshaugh Road Priority Jn
WITH CONSTRUCTION TRAFFIC

2022 - Year of Phase 1 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	342	55
B	0	0	0	0	0	17
C	172	33	0	0	0	0

2022 - Year of Phase 2 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	342	55
B	0	0	0	0	0	13
C	172	33	0	0	0	0

2023 - Year of Phase 3 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	379	65
B	0	0	0	0	0	13
C	190	39	0	0	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	379	65
B	0	0	0	0	0	13
C	190	39	0	0	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	420	76
B	0	0	0	0	0	13
C	211	46	0	0	0	0

Traffic Calculations for GDD Project
Site A - Proposed Junction Exit Only onto Clonshaugh Road Priority Jn
At Present PM Peak (16:00 - 17:00)

Seasonally Adjusted 2016

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	774	142
B	0	0	0	0	0	0
C	245	93	0	0	0	0

2022 - Year of Phase 1

Region 1	Dublin	LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	845	163
B	0	0	0	0	0	0
C	267	107	0	0	0	0

2022 - Year of Phase 2

2013 - 2030 Index	LGV	HGV
	1.0149	1.0242
Years	6	6
Growth Factor	1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	845	163
B	0	0	0	0	0	0
C	267	107	0	0	0	0

2023 - Year of Phase 3

2013 - 2030 Index	LGV	HGV
	1.0149	1.0242
Years	7	7
Growth Factor	1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	938	193
B	0	0	0	0	0	0
C	296	126	0	0	0	0

2023 - Year of Phase 4

2013 - 2030 Index	LGV	HGV
	1.0149	1.0242
Years	7	7
Growth Factor	1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	938	193
B	0	0	0	0	0	0
C	296	126	0	0	0	0

2024 - Year of Phase 5

2013 - 2030 Index	LGV	HGV
	1.0149	1.0242
Years	8	8
Growth Factor	1.126	1.211

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1040	228
B	0	0	0	0	0	0
C	329	149	0	0	0	0

AM PEAK GENERATED TRAFFIC

Site A - Proposed Junction Exit Only onto Clonshaugh Road Priority Jn
WITH CONSTRUCTION TRAFFIC

2022 - Year of Phase 1 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	845	163
B	0	0	0	0	77	17
C	267	107	0	0	0	0

2022 - Year of Phase 2 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	845	163
B	0	0	0	0	66	13
C	267	107	0	0	0	0

2023 - Year of Phase 3 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	938	193
B	0	0	0	0	66	13
C	296	126	0	0	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	938	193
B	0	0	0	0	66	13
C	296	126	0	0	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1040	228
B	0	0	0	0	66	13
C	329	149	0	0	0	0

Traffic Calculations for GDD Project
Site B Proposed Junction onto R139 (Entry Only)
At Present AM Peak (08:00 - 09:00)

Seasonally Adjusted 2016

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1127	153
B	0	0	0	0	0	0
C	1536	243	0	0	0	0

2022 - Year of Phase 1

Region 1	Dublin	LGV	HGV
2013 - 2030 Index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1242	176
B	0	0	0	0	0	0
C	1678	280	0	0	0	0

2022 - Year of Phase 2

2013 - 2030 Index	LGV	HGV
	1.0149	1.0242
Years	6	6
Growth Factor	1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1242	176
B	0	0	0	0	0	0
C	1678	280	0	0	0	0

2023 - Year of Phase 3

2013 - 2030 Index	LGV	HGV
	1.0149	1.0242
Years	7	7
Growth Factor	1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1378	208
B	0	0	0	0	0	0
C	1861	331	0	0	0	0

2023 - Year of Phase 4

2013 - 2030 Index	LGV	HGV
	1.0149	1.0242
Years	7	7
Growth Factor	1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1378	208
B	0	0	0	0	0	0
C	1861	331	0	0	0	0

2024 - Year of Phase 5

2013 - 2030 Index	LGV	HGV
	1.0149	1.0242
Years	8	8
Growth Factor	1.126	1.211

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1528	246
B	0	0	0	0	0	0
C	2054	391	0	0	0	0

AM PEAK GENERATED TRAFFIC
Site B Proposed Junction onto R139 (Entry Only)
WITH CONSTRUCTION TRAFFIC

2022 - Year of Phase 1 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	77	17	1242	176
B	0	0	0	0	0	0
C	1678	280	0	0	0	0

2022 - Year of Phase 2 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	66	13	1277	181
B	0	0	0	0	0	0
C	1678	285	0	0	0	0

2023 - Year of Phase 3 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	66	13	1408	214
B	0	0	0	0	0	0
C	1861	336	0	0	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	#REF!	66	1408	214
B	0	0	0	0	0	0
C	1861	336	0	0	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	66	13	1551	250
B	0	0	0	0	0	0
C	2054	395	0	0	0	0

Traffic Calculations for GDD Project
Site B Proposed Junction onto R139 (Entry Only)
At Present PM Peak (17:00 - 18:00)

Seasonally Adjusted 2016

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1199	156
B	0	0	0	0	0	0
C	1432	355	0	0	0	0

2022 - Year of Phase 1

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1311	180
B	0	0	0	0	0	0
C	1565	410	0	0	0	0

2022 - Year of Phase 2

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		6	6
Growth Factor		1.093	1.154

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1311	180
B	0	0	0	0	0	0
C	1565	410	0	0	0	0

2023 - Year of Phase 3

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		7	7
Growth Factor		1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1453	213
B	0	0	0	0	0	0
C	1736	485	0	0	0	0

2023 - Year of Phase 4

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		7	7
Growth Factor		1.109	1.182

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1453	213
B	0	0	0	0	0	0
C	1736	485	0	0	0	0

2024 - Year of Phase 5

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		8	8
Growth Factor		1.126	1.211

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1612	252
B	0	0	0	0	0	0
C	1925	573	0	0	0	0

AM PEAK GENERATED TRAFFIC
Site B Proposed Junction onto R139 (Entry Only)
WITH CONSTRUCTION TRAFFIC

2022 - Year of Phase 1 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	17	1311	180
B	0	0	0	0	0	0
C	1565	410	0	0	0	0

2022 - Year of Phase 2 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	13	1311	180
B	0	0	0	0	0	0
C	1600	415	0	0	0	0

2023 - Year of Phase 3 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	13	1453	213
B	0	0	0	0	0	0
C	1767	490	0	0	0	0

2023 - Year of Phase 4 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	13	1453	213
B	0	0	0	0	0	0
C	1767	490	0	0	0	0

2024 - Year of Phase 5 + Construction Traffic

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	13	1612	252
B	0	0	0	0	0	0
C	1948	577	0	0	0	0

Traffic Calculations for GDD Project
Site 1 - Clonshaugh Road - Hotel Access Roundabout
At Present AM Peak (08:15 - 09:15)

Seasonally Adjusted 2016

2025 - Year of Opening

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		9	9
Growth Factor		1.142	1.240

2030 (5 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		14	14
Growth Factor		1.230	1.398

2040(15 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		14	14
Growth Factor		1.230	1.398

2040(15 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2030 - 2050 index		1.0054	1.0195
Years		10	10
Growth Factor		1.055	1.213

Combined Factors **1.298** **1.696**

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	1	0	27	2	105	16	2	0
B	17	0	0	2	323	3	10	0
C	120	24	151	8	4	2	52	8
D	10	2	12	2	49	6	0	0

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	1	0	31	3	119	20	2	0
B	19	0	0	2	369	4	11	0
C	137	30	172	10	5	2	59	7
D	11	2	14	2	56	7	0	0

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	1	0	33	3	129	22	2	0
B	21	0	0	2	397	4	12	0
C	148	34	185	12	5	2	63	8
D	12	2	15	3	60	8	0	0

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	1	0	35	4	136	27	3	0
B	22	0	0	3	419	5	13	0
C	156	41	196	14	5	3	67	9
D	12	3	16	3	64	9	0	0

AM PEAK GENERATED TRAFFIC
Site 1 - Clonshaugh Road - Hotel Access Roundabout
WITH DEVELOPMENT

2025 - Year of Opening + Development

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	1	0	31	3	119	20	2	0
B	19	0	0	2	374	8	11	0
C	137	30	172	10	5	2	59	7
D	11	2	14	2	56	7	0	0

2030 (5 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	1	0	33	3	129	22	2	0
B	21	0	0	2	402	9	12	0
C	148	34	185	12	5	2	63	8
D	12	2	15	3	60	8	0	0

2040 (15 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	1	0	35	4	136	27	3	0
B	22	0	0	3	424	10	13	0
C	156	41	196	14	5	3	67	9
D	12	3	16	3	64	9	0	0

Traffic Calculations for GDD Project
Site 1 - Clonshaugh Road - Hotel Access Roundabout
At Present PM Peak (16:15 - 17:15)

Seasonally Adjusted 2016

2025 - Year of Opening

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		9	9
Growth Factor		1.142	1.240

2030 (5 Years after Opening)

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		14	14
Growth Factor		1.230	1.398

2040(15 Years after Opening)

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		14	14
Growth Factor		1.230	1.398

2040(15 Years after Opening)

Region 1	Dublin	LGV	HGV
2030 - 2050 index		1.0054	1.0195
Years		10	10
Growth Factor		1.055	1.213

Combined Factors **1.298** **1.696**

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	1	0	43	0	93	15	1	0
B	20	2	0	0	248	6	7	0
C	100	8	327	3	3	2	56	2
D	5	0	12	0	47	2	1	0

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	1	0	49	0	106	18	1	0
B	23	2	0	0	293	7	8	0
C	114	10	373	4	3	2	64	2
D	6	0	14	0	54	2	1	0

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	1	0	52	0	114	20	1	0
B	25	2	0	0	305	8	9	0
C	123	12	402	4	4	2	69	3
D	6	0	15	0	58	3	1	0

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	1	0	55	0	121	25	1	0
B	26	3	0	0	322	10	9	0
C	129	14	424	5	4	3	73	3
D	6	0	16	0	61	3	1	0

AM PEAK GENERATED TRAFFIC
Site 1 - Clonshaugh Road - Hotel Access Roundabout
WITH DEVELOPMENT

2025 - Year of Opening + Development

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	1	0	49	0	106	18	1	0
B	23	2	0	0	308	12	8	0
C	114	10	373	4	3	2	64	2
D	6	0	14	0	54	2	1	0

2030 (5 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	1	0	52	0	114	20	1	0
B	25	2	0	0	330	13	9	0
C	123	12	402	4	4	2	69	3
D	6	0	15	0	58	3	1	0

2040 (15 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	1	0	55	0	121	25	1	0
B	26	3	0	0	347	15	9	0
C	129	14	424	5	4	3	73	3
D	6	0	16	0	61	3	1	0

Traffic Calculations for GDD Project
Site 2 - N32 - Clonsaugh Road - Roundabout
At Present AM Peak (07:45 - 08:45)

Seasonally Adjusted 2016

2025 - Year of Opening

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		9	9
Growth Factor		1.142	1.240

2030 (5 Years after Opening)

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		14	14
Growth Factor		1.230	1.398

2040(15 Years after Opening)

Region 1	Dublin	LGV	HGV
2013 - 2030 index		1.0149	1.0242
Years		14	14
Growth Factor		1.230	1.398

2040(15 Years after Opening)

Region 1	Dublin	LGV	HGV
2030 - 2050 index		1.0054	1.0195
Years		10	10
Growth Factor		1.055	1.213

Combined Factors

		1.298	1.696
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Route	A	HGV	B	HGV	C	HGV	D	HGV
A	0	0	215	14	0	0	210	22
B	125	8	17	2	0	0	1865	146
C	0	0	0	0	0	0	0	0
D	120	15	1954	117	0	0	2	0

0	228	0	232
133	19	0	2011
0	0	0	0
135	2071	0	2

#DIV/0!	6%	#DIV/0!	9%
6%	12%	#DIV/0!	7%
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Route	A	HGV	B	HGV	C	HGV	D	HGV
A	0	0	245	17	0	0	240	27
B	142	10	19	3	0	0	2130	181
C	0	0	0	0	0	0	0	0
D	137	19	2231	145	0	0	2	0

0	262	0	267	837
153	22	0	2310	
0	0	0	0	
156	2376	0	2	

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12%	6%	#DIV/0!	0%

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	0	0	264	19	0	0	258	30
B	153	12	21	3	0	0	2294	204
C	0	0	0	0	0	0	0	0
D	148	21	2403	163	0	0	2	0

0	283	0	288
165	24	0	2498
0	0	0	0
169	2567	0	2

#DIV/0!	7%	#DIV/0!	10%
7%	13%	#DIV/0!	8%
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13%	6%	#DIV/0!	0%

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	0	0	279	23	0	0	273	37
B	162	14	22	4	0	0	2420	247
C	0	0	0	0	0	0	0	0
D	156	26	2536	198	0	0	3	0

0	302	0	309	611
176	26	0	2667	2869
0	0	0	0	
181	2734	0	3	2918

#DIV/0!	8%	#DIV/0!	12%
8%	15%	#DIV/0!	9%
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14%	7%	#DIV/0!	0%

AM PEAK GENERATED TRAFFIC

Site 2 - N32 - Clonsaugh Road - Roundabout
WITH DEVELOPMENT

2025 - Year of Opening + Development

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	0	0	245	17	0	0	245	31
B	142	10	19	3	0	0	2130	181
C	0	0	0	0	0	0	0	0
D	137	19	2249	150	0	0	2	0

0	262	0	276	538	847
153	22	0	2310	2485	
0	0	0	0	0	
156	2399	0	2	2557	
				5580	

2030 (5 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	0	0	264	19	0	0	263	35
B	153	12	21	3	0	0	2294	204
C	0	0	0	0	0	0	0	0
D	148	21	2421	168	0	0	2	0

0	283	0	298	581
165	24	0	2498	2687
0	0	0	0	0
169	2589	0	2	2760
				6028

2040 (15 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	0	0	279	23	0	0	278	41
B	162	14	22	4	0	0	2420	247
C	0	0	0	0	0	0	0	0
D	156	26	2533	203	0	0	3	0

0	302	0	319	620
176	26	0	2667	2869
0	0	0	0	
181	2756	0	3	2940
				3084
				6429

Traffic Calculations for GDD Project
Site 2 - N32 - Clonsaugh Road - Roundabout
At Present PM Peak (16:15 - 17:15)

Seasonally Adjusted 2016

2025 - Year of Opening

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		9	9
Growth Factor		1.142	1.240

2030 (5 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		14	14
Growth Factor		1.230	1.398

2040(15 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		14	14
Growth Factor		1.230	1.398

2040(15 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2030 - 2050 index		1.0054	1.0195
Years		10	10
Growth Factor		1.055	1.213

Combined Factors **1.298** **1.696**

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	0	0	216	9	0	0	167	18
B	267	5	25	0	0	0	1938	136
C	0	0	0	0	0	0	0	0
D	192	10	1891	89	0	0	3	2

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	0	0	246	11	0	0	190	22
B	305	7	29	0	0	0	2213	168
C	0	0	0	0	0	0	0	0
D	219	12	2159	110	0	0	3	2

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	0	0	265	13	0	0	205	25
B	328	7	31	0	0	0	2383	190
C	0	0	0	0	0	0	0	0
D	236	13	2325	124	0	0	4	2

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	0	0	280	15	0	0	216	30
B	346	9	32	0	0	0	2514	230
C	0	0	0	0	0	0	0	0
D	248	16	2453	150	0	0	4	3

AM PEAK GENERATED TRAFFIC
Site 2 - N32 - Clonsaugh Road - Roundabout
WITH DEVELOPMENT

2025 - Year of Opening + Development

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	0	0	246	11	0	0	215	27
B	305	7	29	0	0	0	2213	168
C	0	0	0	0	0	0	0	0
D	219	12	2169	115	0	0	3	2

2030 (5 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	0	0	265	13	0	0	230	30
B	328	7	31	0	0	0	2383	190
C	0	0	0	0	0	0	0	0
D	236	13	2335	129	0	0	4	2

2040 (15 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV	D	HGV
A	0	0	280	15	0	0	241	35
B	346	9	32	0	0	0	2514	230
C	0	0	0	0	0	0	0	0
D	248	16	2463	155	0	0	4	3

Traffic Calculations for GDD Project
Site A - Proposed Junction onto Clonsaugh road (Exit Only) Priority Jn
At Present AM Peak (08:00 - 09:00)

Seasonally Adjusted 2016

2025 - Year of Opening

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		9	9
<u>Growth Factor</u>		1.142	1.240

2030 (5 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		14	14
<u>Growth Factor</u>		1.230	1.398

2040 (15 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		14	14
<u>Growth Factor</u>		1.230	1.398

2040 (15 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2026 - 2040 index		1.0054	1.0195
Years		10	10
<u>Growth Factor</u>		1.055	1.213

Combined Factors 1.298 1.696

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	313	47
B	0	0	0	0	0	0
C	157	29	0	0	0	0

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	357	59
B	0	0	0	0	0	0
C	179	35	0	0	0	0

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	384	66
B	0	0	0	0	0	0
C	193	40	0	0	0	0

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	406	80
B	0	0	0	0	0	0
C	3323	204	48	0	0	0

AM PEAK GENERATED TRAFFIC

Site A - Proposed Junction onto Clonsaugh road (Exit Only) Priority Jn
WITH DEVELOPMENT

2025 - Year of Opening + Development

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	357	59
B	0	0	0	0	5	5
C	179	35	0	0	0	0

2030 (5 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	384	66
B	0	0	0	0	5	5
C	193	40	0	0	0	0

2040 (15 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	406	80
B	0	0	0	0	5	5
C	204	48	0	0	0	0

Traffic Calculations for GDD Project
Site A - Proposed Junction onto Clonsaugh road (Exit Only) Priority Jn
At Present PM Peak (16:00 - 17:00)

Seasonally Adjusted 2016

2025 - Year of Opening

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		9	9
<u>Growth Factor</u>		1.142	1.240

2030 (5 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		14	14
<u>Growth Factor</u>		1.230	1.398

2040 (15 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		14	14
<u>Growth Factor</u>		1.230	1.398

2040 (15 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2026 - 2040 index		1.0054	1.0195
Years		10	10
<u>Growth Factor</u>		1.055	1.213

Combined Factors 1.298 1.696

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	242	45
B	0	0	0	0	0	0
C	302	27	0	0	0	0

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	276	56
B	0	0	0	0	0	0
C	344	33	0	0	0	0

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	297	63
B	0	0	0	0	0	0
C	371	38	0	0	0	0

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	313	76
B	0	0	0	0	0	0
C	3323	391	46	0	0	0

AM PEAK GENERATED TRAFFIC

Site A - Proposed Junction onto Clonsaugh road (Exit Only) Priority Jn
WITH DEVELOPMENT

2025 - Year of Opening + Development

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	276	56
B	0	0	0	0	25	5
C	344	33	0	0	0	0

2030 (5 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	297	63
B	0	0	0	0	25	5
C	371	38	0	0	0	0

2040 (15 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	313	76
B	0	0	0	0	25	5
C	391	46	0	0	0	0

Traffic Calculations for GDD Project
Site B - Proposed Junction onto R139 (Entry Only) Priority Jn
At Present AM Peak (08:00 - 09:00)

Seasonally Adjusted 2016

2025 - Year of Opening

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		9	9
<u>Growth Factor</u>		1.142	1.240

2030 (5 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		14	14
<u>Growth Factor</u>		1.230	1.398

2040 (15 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		14	14
<u>Growth Factor</u>		1.230	1.398

2040 (15 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2026 - 2040 index		1.0054	1.0195
Years		10	10
<u>Growth Factor</u>		1.055	1.213

Combined Factors

	1.298	1.696
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Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1137	153
B	0	0	0	0	0	0
C	1536	243	0	0	0	0

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1298	189
B	0	0	0	0	0	0
C	1754	301	0	0	0	0

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1398	213
B	0	0	0	0	0	0
C	1889	339	0	0	0	0

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1475	259
B	0	0	0	0	0	0
C	1993	411	0	0	0	0

AM PEAK GENERATED TRAFFIC

Site B - Proposed Junction onto R139 (Entry Only) Priority Jn
WITH DEVELOPMENT

2025 - Year of Opening + Development

Route	A	HGV	B	HGV	C	HGV
A	0	0	18	5	1298	189
B	0	0	0	0	0	0
C	1754	301	0	0	0	0

2030 (5 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV
A	0	0	18	5	1398	213
B	0	0	0	0	0	0
C	1889	339	0	0	0	0

2040 (15 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV
A	0	0	18	5	1475	259
B	0	0	0	0	0	0
C	1993	411	0	0	0	0

Traffic Calculations for GDD Project
Site B - Proposed Junction onto R139 (Entry Only) Priority Jn
At Present PM Peak (17:00 - 18:00)

Seasonally Adjusted 2016

2025 - Year of Opening

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		9	9
<u>Growth Factor</u>		1.142	1.240

2030 (5 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		14	14
<u>Growth Factor</u>		1.230	1.398

2040 (15 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2013 - 2030 index		1.0149	1.0242
Years		14	14
<u>Growth Factor</u>		1.230	1.398

2040 (15 Years after Opening)

<u>Region 1</u>	<u>Dublin</u>	<u>LGV</u>	<u>HGV</u>
2026 - 2040 index		1.0054	1.0195
Years		10	10
<u>Growth Factor</u>		1.055	1.213

Combined Factors

	1.298	1.696
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Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1199	156
B	0	0	0	0	0	0
C	1432	355	0	0	0	0

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1369	194
B	0	0	0	0	0	0
C	1635	441	0	0	0	0

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1475	219
B	0	0	0	0	0	0
C	1761	497	0	0	0	0

Route	A	HGV	B	HGV	C	HGV
A	0	0	0	0	1556	265
B	0	0	0	0	0	0
C	3323	1858	603	0	0	0

AM PEAK GENERATED TRAFFIC

Site B - Proposed Junction onto R139 (Entry Only) Priority Jn
WITH DEVELOPMENT

2025 - Year of Opening + Development

Route	A	HGV	B	HGV	C	HGV
A	0	0	10	5	1369	194
B	0	0	0	0	0	0
C	1635	441	0	0	0	0

2030 (5 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV
A	0	0	10	5	1475	219
B	0	0	0	0	0	0
C	1761	497	0	0	0	0

2040 (15 Years after Opening) + Development

Route	A	HGV	B	HGV	C	HGV
A	0	0	10	5	1556	265
B	0	0	0	0	0	0
C	1858	603	0	0	0	0