

National Grid Cable
Tunnel Replacement Project

Environmental Statement
Volume VI
Appendix 18.6 Preliminary
Highway Impact Assessment
(Gravesham)
Revision 1

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Quality information

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1 Preliminary Highway Impact Assessment (Gravesend)

Table 1: Preliminary Highway Impact Assessment - Peak Construction Phase (2026) AM

Ref	Location	AM Development Peak (07:00-08:00)								AM Network Peak (08:00-09:00)							
		Baseline		Proposed Development (arrivals + departures)		Total		% Increase		Baseline		Proposed Development (arrivals + departures)		Total		% Increase	
		HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total
G-RL1	A2 (West)	856	10,944	0	21	856	10,964	0.0%	0.2%	955	9,862	43	43	959 958	9,866 9,865	0.4% 0.3%	0.04% 0.0%
G-RL2	M2 (East)	656	8,045	0	6	656	8,052	0.0%	0.1%	712	7,263	43	43	716 715	7,267 7,266	0.6% 0.4%	0.1% 0.0%
G-RL3	A289	333	4,676	0	27	333	4,703	0.0%	0.6%	343	4,204	86	86	351 349	4,212 4,210	2.3% 1.7%	0.2% 0.1%
G-RL4	A226 (between A289 and Peartree Lane)	48	988	0	27	48	1,015	0.0%	2.7%	38	1,011	86	86	46 44	1,019 1,017	21.2% 15.9%	0.8% 0.6%
G-RL5	A226 (between Peartree Lane and Lion Roundabout)	51	1,011	0	27	51	1,038	0.0%	2.7%	39	1,051	86	86	47 45	1,059 1,057	20.6% 15.5%	0.8% 0.6%
G-RL6	A226 (between Lion Roundabout and Ordnance Road)	42	917	0	27	42	944	0.0%	2.9%	42	1,119	86	86	50 48	1,127 1,125	19.2% 14.4%	0.7% 0.5%
G-RL7	Ordnance Road and Canal Road	48	500	0	27	48	527	0.0%	5.4%	53	618	86	86	61 59	626 624	15.1% 11.3%	1.3% 0.9%
G-RL8	Norfolk Road and Mark Lane	43	301	0	27	43	328	0.0%	9.0%	48	231	86	86	56 54	239 237	16.8% 12.6%	3.5% 2.6%

Ref	Location	AM Development Peak (07:00-08:00)								AM Network Peak (08:00-09:00)							
		Baseline		Proposed Development (arrivals + departures)		Total		% Increase		Baseline		Proposed Development (arrivals + departures)		Total		% Increase	
		HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total
G-RL9	Thames and Medway Canal Road	1	93	0	27	1	120	0.0%	29.1%	1	51	86	86	97	5957	784.4%	15.7%
G-RJ1	M2/A2/A289 Junction	935	11,630	0	27	935	11,657	0.0%	0.2%	1,000	10,431	86	86	1,008	10,431	0.8%	0.1%
G-RJ2	A289/A226 Junction	357	5,170	0	27	357	5,197	0.0%	0.5%	362	4,709	86	86	37036	4,715	2.2%	0.2%
G-RJ3	A226/ Peartree Lane Signalised Junction	52	1,108	0	27	52	1,135	0.0%	2.4%	41	1,203	86	86	4947	1,211	19.6%	0.7%
G-RJ4	A226/ Dering Way/ Lower Higham Road/ Old Road East (Lion) Roundabout	100	2,055	0	27	100	2,082	0.0%	1.3%	71	2,512	86	86	7977	2,520	11.2%	0.3%
G-RJ5	A226/Ordnance Road Signalised Junction	85	1,256	0	27	85	1,283	0.0%	2.1%	80	1,619	86	86	8886	1,627	10.1%	0.5%
G-RJ6	Mark Lane/Thames and Medway Canal Road Junction	20	246	0	27	20	273	0.0%	11.0%	30	164	86	86	3836	17217	27.0%	4.9%

Table 2: Preliminary Highway Impact Assessment - Peak Construction Phase (2026) PM

Ref	Location	PM Network Peak (17:00-18:00)								PM Development Peak (18:00-19:00)							
		Baseline		Proposed Development (arrivals + departures)		Total		% Increase		Baseline		Proposed Development (arrivals + departures)		Total		% Increase	
		HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total
G-RL1	A2 (West)	531	11,561	<u>32</u>	<u>32</u>	<u>534</u> 33	<u>11,56</u> 411,563	<u>0.6%</u> 0.4%	0.0%	460	9,298	0	21	460	9,319	0.0%	0.2%
G-RL2	M2 (East)	499	7,833	<u>32</u>	<u>32</u>	<u>502</u> 04	<u>7,836</u> 7,835	<u>0.6%</u> 0.4%	0.0%	374	5,910	0	6	374	5,917	0.0%	0.1%
G-RL3	A289	138	4,444	<u>64</u>	<u>64</u>	<u>144</u> 42	<u>4,450</u> 4,448	<u>4.3%</u> 2.9%	0.1%	106	3,523	0	27	106	3,550	0.0%	0.8%
G-RL4	A226 (between A289 and Peartree Lane)	21	1,139	<u>64</u>	<u>64</u>	<u>27</u> 25	<u>1,145</u> 1,143	<u>28.0%</u> 18.7%	<u>0.5%</u> 0.4%	19	838	0	27	19	865	0.0%	3.2%
G-RL5	A226 (between Peartree Lane and Lion Roundabout)	21	1,159	<u>64</u>	<u>64</u>	<u>27</u> 25	<u>1,165</u> 1,163	<u>28.0%</u> 18.7%	<u>0.5%</u> 0.3%	20	850	0	27	20	877	0.0%	3.2%
G-RL6	A226 (between Lion Roundabout and Ordnance Road)	30	1,188	<u>64</u>	<u>64</u>	<u>36</u> 34	<u>1,194</u> 1,192	<u>20.0%</u> 13.4%	<u>0.5%</u> 0.3%	26	989	0	27	26	1,016	0.0%	2.7%
G-RL7	Ordnance Road and Canal Road	20	532	<u>64</u>	<u>64</u>	<u>26</u> 24	<u>538</u> 536	<u>29.4%</u> 19.6%	<u>1.1%</u> 0.8%	29	445	0	27	29	472	0.0%	6.1%
G-RL8	Norfolk Road and Mark Lane	17	199	<u>64</u>	<u>64</u>	<u>23</u> 21	<u>205</u> 203	<u>35.9%</u> 23.9%	<u>3.0%</u> 2.0%	16	109	0	27	16	136	0.0%	24.8%
G-RL9	Thames and Medway Canal Road	0	46	<u>64</u>	<u>64</u>	<u>64</u>	<u>52</u> 50	<u>13.1%</u> 8.7%	-	0	31	0	27	0	58	-	88.3%
G-RJ1	M2/A2/A289 Junction	581	11,847	<u>64</u>	<u>64</u>	<u>587</u> 85	<u>11,85</u> 341,854	<u>1.0%</u> 0.7%	<u>0.1%</u> 0.0%	454	9,843	0	27	454	9,870	0.0%	0.3%

Ref	Location	PM Network Peak (17:00-18:00)								PM Development Peak (18:00-19:00)							
		Baseline		Proposed Development (arrivals + departures)		Total		% Increase		Baseline		Proposed Development (arrivals + departures)		Total		% Increase	
		HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total
G-RJ2	A289/A226 Junction	149	5,014	<u>64</u>	<u>64</u>	<u>155</u> 53	<u>5,020</u> 5,018	<u>4.0%</u> 2.7%	0.1%	116	3,942	0	27	116	3,969	0.0%	0.7%
G-RJ3	A226/ Peartree Lane Signalised Junction	23	1,319	<u>64</u>	<u>64</u>	<u>29</u> 27	<u>1,325</u> 1,323	<u>25.6%</u> 17.4%	<u>0.5%</u> 0.3%	21	974	0	27	21	1,001	0.0%	2.8%
G-RJ4	A226/ Dering Way/ Lower Higham Road/ Old Road East (Lion) Roundabout	49	2,617	<u>64</u>	<u>64</u>	<u>55</u> 53	<u>2,623</u> 2,621	<u>12.3%</u> 8.2%	0.2%	43	2,231	0	27	43	2,258	0.0%	1.2%
G-RJ5	A226/Ordnance Road Signalised Junction	44	1,514	<u>64</u>	<u>64</u>	<u>50</u> 48	<u>1,520</u> 1,518	<u>13.7%</u> 9.1%	<u>0.4%</u> 0.3%	49	1,365	0	27	49	1,392	0.0%	2.0%
G-RJ6	Mark Lane/Thames and Medway Canal Road Junction	14	90	<u>64</u>	<u>64</u>	<u>20</u> 18	<u>96</u> 94	<u>43.9%</u> 29.3%	<u>6.7%</u> 4.4%	14	65	0	27	14	92	0.0%	41.5%

Table 3: Preliminary Highway Impact Assessment - Peak Construction Phase (2026) 12 hours / 24hr Daily

Ref	Location	12 Hours (07:00-19:00)								24hr Daily							
		Baseline		Proposed Development (arrivals + departures)		Total		% Increase		Baseline		Proposed Development (arrivals + departures)		Total		% Increase	
		HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total
G-RL1	A2 (West)	10,156	111,303	4032	8173	10,119 640,188	111,384 411,376	0.4%0 -3%	0.1%	9,926	130,414	4032	8173	9,966 9,958	130,496 130,488	0.4%0 -3%	0.1%
G-RL2	M2 (East)	8,272	80,828	4032	5345	8,312 8,304	80,880 80,872	0.5%0 -4%	0.1%	9,679	99,758	4032	5345	9,719 9,711	99,811 99,803	0.4%0 -3%	0.1%0 -0%
G-RL3	A289	3,406	44,834	8064	13411 8	3,486 3,470	44,968 44,952	2.3%1 -9%	0.3%	3,532	50,160	8064	13411 8	3,612 3,596	50,294 50,278	2.3%1 -8%	0.3%0 -2%
G-RL4	A226 (between A289 and Peartree Lane)	458	11,080	8064	13411 8	53852 2	11,214 411,198	17.4% 14.0%	1.2%1 -1%	465	13,347	8064	13411 8	54552 9	13,481 13,465	17.2% 13.8%	1.0%0 -0%
G-RL5	A226 (between Peartree Lane and Lion Roundabout)	477	11,344	8064	13411 8	55754 4	11,478 11,462	16.8% 13.4%	1.2%1 -0%	484	13,665	8064	13411 8	56454 8	13,799 13,783	16.5% 13.2%	1.0%0 -0%
G-RL6	A226 (between Lion Roundabout and Ordnance Road)	508	11,738	8064	13411 8	58857 2	11,872 11,856	15.7% 12.6%	1.1%1 -0%	515	14,139	8064	13411 8	59557 9	14,273 14,257	15.5% 12.4%	0.9%0 -8%
G-RL7	Ordnance Road and Canal Road	605	7,122	8064	13411 8	68566 9	7,256 7,240	13.2% 10.6%	1.9%1 -7%	549	6,757	8064	13411 8	62964 3	6,891 6,875	14.6% 11.6%	2.0%1 -7%
G-RL8	Norfolk Road and Mark Lane	499	2,856	8064	13411 8	57956 3	2,990 2,974	16.0% 12.8%	4.7%4 -1%	454	2,709	8064	13411 8	53454 8	2,843 2,827	17.6% 14.1%	4.9%4 -4%

Ref	Location	12 Hours (07:00-19:00)								24hr Daily							
		Baseline		Proposed Development (arrivals + departures)		Total		% Increase		Baseline		Proposed Development (arrivals + departures)		Total		% Increase	
		HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total	HGVs	Total
G-RL9	Thames and Medway Canal Road	12	634	<u>80</u> 64	<u>134</u> 118	<u>92</u> 76	<u>768</u> 752	<u>653.5</u> %522.8%	<u>21.1</u> %18.6%	10	649	<u>80</u> 64	<u>134</u> 118	<u>90</u> 74	<u>783</u> 767	<u>784.4</u> %627.5%	<u>20.7</u> %18.2%
G-RJ1	M2/A2/A289 Junction	10,674	117,936	<u>80</u> 64	<u>134</u> 118	<u>10,754</u> 10,738	<u>118,070</u> 118,054	<u>0.7</u> %0.6%	<u>0</u> %	11,278	139,330	<u>80</u> 64	<u>134</u> 118	<u>11,358</u> 11,342	<u>139,464</u> 139,448	<u>0.7</u> %0.6%	<u>0</u> %
G-RJ2	A289/A226 Junction	3,635	50,374	<u>80</u> 64	<u>134</u> 118	<u>3,715</u> 3,699	<u>50,508</u> 50,492	<u>2.2</u> %2.8%	<u>0.3</u> %0.2%	3,765	56,834	<u>80</u> 64	<u>134</u> 118	<u>3,845</u> 3,829	<u>56,968</u> 56,952	<u>2.1</u> %2.7%	<u>0.2</u> %
G-RJ3	A226/Peartree Lane Signalised Junction	499	12,830	<u>80</u> 64	<u>134</u> 118	<u>579</u> 563	<u>12,964</u> 12,948	<u>16.0</u> %12.8%	<u>1.0</u> %0.9%	506	15,454	<u>80</u> 64	<u>134</u> 118	<u>586</u> 570	<u>15,588</u> 15,572	<u>15.8</u> %12.6%	<u>0.9</u> %0.8%
G-RJ4	A226/ Dering Way/ Lower Higham Road/ Old Road East (Lion) Roundabout	954	26,236	<u>80</u> 64	<u>134</u> 118	<u>1,034</u> 1,018	<u>26,370</u> 26,354	<u>8.4</u> %7.7%	<u>0.5</u> %0.4%	968	31,603	<u>80</u> 64	<u>134</u> 118	<u>1,048</u> 1,032	<u>31,737</u> 31,724	<u>8.3</u> %7.6%	<u>0.4</u> %
G-RJ5	A226/Ordnance Road Signalised Junction	932	16,037	<u>80</u> 64	<u>134</u> 118	<u>1,012</u> 996	<u>16,171</u> 16,155	<u>8.6</u> %9.9%	<u>0.8</u> %0.7%	945	19,317	<u>80</u> 64	<u>134</u> 118	<u>1,025</u> 1,009	<u>19,451</u> 19,435	<u>8.5</u> %8.8%	<u>0.7</u> %0.6%
G-RJ6	Mark Lane/Thames and Medway Canal Road Junction	279	1,703	<u>80</u> 64	<u>134</u> 118	<u>359</u> 343	<u>1,837</u> 1,821	<u>28.7</u> %22.9%	<u>7.9</u> %0.9%	232	1,677	<u>80</u> 64	<u>134</u> 118	<u>312</u> 296	<u>1,811</u> 1,795	<u>34.5</u> %27.6%	<u>8.0</u> %0.7%