

## APPENDIX 14.4

### SUMMARY OF TRAFFIC DATA USED IN THE ASSESSMENT

## Summary of Traffic Data used in the Assessment

The tables below show the data that was used in the assessment of traffic impacts on local air quality. The emission factors were obtained from the spreadsheet published in July 2003 by Bureau Veritas (formerly Casella Stanger).

### 2007 Baseline

Road link	Speed (km/hour)	Annual Average Hourly Traffic Flows (AAHT)	%HGV	Emission rate g/km/veh	
				NO <sub>x</sub>	PM <sub>10</sub>
B0-B1	78	117	5	0.6324	0.0195
B1-B2	48	117	5	0.6198	0.0210
B2-B3	48	117	5	0.6198	0.0210
B3-B4	30	117	5	0.7030	0.0272
B4-B5	30	117	5	0.7030	0.0272
B5-B6	30	129	9	1.0042	0.0354
B6-B7	47	125	9	0.8729	0.0273
B7-B8	45	125	9	0.8821	0.0280
B8-B9	78	125	9	0.8644	0.0243
B5-B10	48	196	8	0.8065	0.0255
B10-B11	28	196	8	0.9527	0.0346
B11-B12	48	196	8	0.8065	0.0255
B12-B13	48	192	8	0.8065	0.0255
B13-B14	73	192	8	0.7925	0.0225

### 2011 Without Proposed Bypass

Road link	Speed (km/hour)	Annual Average Hourly Traffic Flows (AAHT)	%HGV	Emission rate g/km/veh	
				NO <sub>x</sub>	PM <sub>10</sub>
B0-B1	78	125	5.00	0.4620	0.0135
B1-B2	48	125	5.00	0.4516	0.0142
B2-B3	48	125	5.00	0.4516	0.0142
B3-B4	30	125	5.00	0.5093	0.0184
B4-B5	30	125	5.00	0.5093	0.0184
B5-B6	30	138	9.00	0.7120	0.0226
B6-B7	47	133	9.00	0.6217	0.0175
B7-B8	45	133	9.00	0.6281	0.0179
B8-B9	78	133	9.00	0.6178	0.0160
B5-B10	48	213	8.00	0.5770	0.0165
B10-B11	28	213	8.00	0.6775	0.0223
B11-B12	48	213	8.00	0.5770	0.0165
B12-B13	48	204	8.00	0.5770	0.0165
B13-B14	73	204	8.00	0.5685	0.0148

**2011 With Proposed Bypass**

Road link	Speed (km/hour)	Annual Average Hourly Traffic Flows (AAHT)	%HGV	Emission rate	
				g/km/veh NOx	PM10
B0-B1	79	125	5	0.4644	0.0137
B1-B2	48	25	5	0.4516	0.0142
B2-B3	48	25	5	0.4516	0.0142
B3-B4	33	25	5	0.4950	0.0175
B4-B5	33	25	5	0.4950	0.0175
B5-B6	31	138	9	0.7038	0.0222
B6-B7	48	133	9	0.6188	0.0173
B7-B8	46	133	9	0.6248	0.0177
B8-B9	79	133	9	0.6204	0.0161
B5-B10	48	113	8	0.5770	0.0165
B10-B11	32	113	8	0.6470	0.0208
B11-B12	48	113	8	0.5770	0.0165
B12-B13	48	113	8	0.5770	0.0165
B1-A1	79	100	5	0.4644	0.0137
A1-B14	78	204	5	0.4620	0.0135
A1-B13	46	113	8	0.5824	0.0169