

## Appendix C

### Noise Assessment

The following tables present the results of the noise assessment of online dualling at Inverurie for all end-to-end route combinations, as different route option connections give rise to different levels of traffic. Results are shown for online dualling at Inverurie linking to the portion of the Orange route option from Drimmies to Pitcaple with further connections onto each of the Brown or Pink and Cyan or Red route options, giving four end-to-end combinations in total.

Traffic modelling was used to predict flows on the existing A96 at Inverurie without any dualling online or offline (referred to as DM in the tables below - Do-Minimum) and for online dualling at Inverurie (referred to as DS in the tables below – Do-Something).

The change from no A96 dualling (DM) to each end-to-end dualling combination incorporating online dualling at Inverurie was calculated to determine an assessment of the impact. Given traffic flows change at Blackhall Road as vehicles enter or leave the A96, results are provided for the road sections each side of Blackhall Road – Drimmies to Blackhall Road and Blackhall Road to Port Elphinstone.

Results are provided for the D2APc (GSJ) and D2APb (At-Grade) layouts for predicted traffic flows in 2030 (the assumed year of opening) and 2045 (15 years after opening). There is no significant difference in traffic flows for the D2UAP (GSJ) and D2UAP (At-Grade) carriageway cross-section.

Table C1 – Comparative Noise Study D2APc (GSJ) Layout to Do-Minimum

Road Assessed	Scenario Assessed	Do Minimum (DM) BNL, dBL <sub>A10</sub> , 18hr	Do Something (DS) BNL, dBL <sub>A10</sub> , 18hr	Change DS-DM, dB	Term	DMRB Potential Magnitude of Impact
Drimmie to Blackhall (Approx 650 receptors within 300m of centreline)	2030 Cyan Brown OLI	73.1	77.7	4.7	Short-term	Moderate Adverse
	2030 Cyan Pink OLI	73.1	77.7	4.7	Short-term	Moderate Adverse
	2030 Red Brown OLI	73.1	77.7	4.7	Short-term	Moderate Adverse
	2030 Red Pink OLI	73.1	77.6	4.5	Short-term	Moderate Adverse
	2045 Cyan Brown OLI	73.9	78.4	4.5	Long-term	Minor Adverse
	2045 Cyan Pink OLI	73.9	78.4	4.5	Long-term	Minor Adverse
	2045 Red Brown OLI	73.9	78.4	4.5	Long-term	Minor Adverse
	2045 Red Pink OLI	73.9	78.6	4.7	Long-term	Minor Adverse
Blackhall to Port Elphinstone (Approx 1100 receptors within 300m of centreline)	2030 Cyan Brown OLI	74.1	79.0	4.9	Short-term	Moderate Adverse
	2030 Cyan Pink OLI	74.1	79.1	4.9	Short-term	Moderate Adverse
	2030 Red Brown OLI	74.1	79.1	4.9	Short-term	Moderate Adverse
	2030 Red Pink OLI	74.1	79.1	4.9	Short-term	Moderate Adverse
	2045 Cyan Brown OLI	74.8	79.8	5.0	Long-term	Moderate Adverse
	2045 Cyan Pink OLI	74.8	79.8	5.0	Long-term	Moderate Adverse
	2045 Red Brown OLI	74.8	79.8	5.0	Long-term	Moderate Adverse
	2045 Red Pink OLI	74.8	80.1	5.3	Long-term	Moderate Adverse

Table C2 – Comparative Noise Study D2APb (At-Grade) Layout to Do-Minimum

Road Assessed	Scenario Assessed	Do Minimum (DM) BNL, dBL <sub>A10, 18hr</sub>	Do Something (DS) BNL, dBL <sub>A10, 18hr</sub>	Change DS-DM, dB	Term	DMRB Potential Magnitude of Impact
Drimmies to Blackhall (Approx 650 receptors within 300m of centreline)	2030 Cyan Brown OLI	73.1	76.3	3.2	Short-term	Moderate Adverse
	2030 Cyan Pink OLI	73.1	76.3	3.2	Short-term	Moderate Adverse
	2030 Red Brown OLI	73.1	76.3	3.2	Short-term	Moderate Adverse
	2030 Red Pink OLI	73.1	76.3	3.3	Short-term	Moderate Adverse
	2045 Cyan Brown OLI	73.9	77.0	3.1	Long-term	Minor Adverse
	2045 Cyan Pink OLI	73.9	77.0	3.1	Long-term	Minor Adverse
	2045 Red Brown OLI	73.9	77.0	3.2	Long-term	Minor Adverse
	2045 Red Pink OLI	73.9	77.1	3.2	Long-term	Minor Adverse
Blackhall to Port Elphinstone (Approx 1100 receptors within 300m of centreline)	2030 Cyan Brown OLI	74.1	78.1	4.0	Short-term	Moderate Adverse
	2030 Cyan Pink OLI	74.1	78.1	4.0	Short-term	Moderate Adverse
	2030 Red Brown OLI	74.1	78.1	4.0	Short-term	Moderate Adverse
	2030 Red Pink OLI	74.1	78.2	4.0	Short-term	Moderate Adverse
	2045 Cyan Brown OLI	74.8	78.7	4.0	Long-term	Minor Adverse
	2045 Cyan Pink OLI	74.8	78.8	4.0	Long-term	Minor Adverse
	2045 Red Brown OLI	74.8	78.8	4.0	Long-term	Minor Adverse
	2045 Red Pink OLI	74.8	78.8	4.0	Long-term	Minor Adverse