

**Appendix 4.15**  
**Predicted Road Traffic Noise Levels**  
**at Representative Noise Sensitive Receivers**  
**in Year 2031 (Mitigated Scenario – With**  
**Proposed Direct Noise Mitigation Measures**  
**for Existing NSRs Only)**

Appendix 4.15 Predicted Road Traffic Noise Levels at Representative Noise Sensitive Receivers in Year 2031  
(Mitigated Scenario - With Proposed Direct Noise Mitigation Measures for Existing NSRs Only)

NSR ID	Level	mPD	Predicted Noise Level, L10(1-hr) dB(A)		
			New Road	Existing Road	Overall
N1	1	9.2	53.9	58.1	59.5
N2	1	25.2	—	66.4	66.4
	5	36.4	—	73.2	73.2
	10	50.4	—	74.8	74.8
	15	64.4	—	74.4	74.4
	20	78.4	—	73.8	73.8
	25	92.4	—	73.3	73.3
	30	106.4	—	72.9	72.9
	35	120.4	—	72.5	72.5
N3	40	134.4	—	72.2	72.2
	42	140.0	—	72.1	72.1
	1	8.9	—	87.1	87.1
	5	20.1	—	85.5	85.5
N4	10	34.1	—	83.8	83.8
	12	39.7	—	83.3	83.3
	1	8.9	—	84.5	84.5
	5	20.1	—	83.7	83.7
N5	10	34.1	—	82.9	82.9
	15	48.1	—	82.1	82.1
	18	56.5	—	81.6	81.6
	1	8.9	—	83.4	83.4
	5	20.1	—	83.6	83.6
	10	34.1	—	82.8	82.8
N6	15	48.1	—	82.1	82.1
	20	62.1	—	81.5	81.5
	22	67.7	—	81.2	81.2
	1	8.9	—	85.2	85.2
	5	20.1	—	83.8	83.8
	10	34.1	—	82.6	82.6
N7	15	48.1	—	81.8	81.8
	20	62.1	—	81.1	81.1
	21	64.9	—	81.0	81.0
	1	9.5	—	83.3	83.3
N8	5	20.7	—	81.6	81.6
	10	34.7	—	80.3	80.3
	15	48.7	—	79.4	79.4
	1	9.5	—	81.2	81.2
N9	5	20.7	—	79.7	79.7
	10	34.7	—	78.5	78.5
	15	48.7	—	77.8	77.8
	1	9.2	55.2	81.0	81.0
N10	5	20.4	55.2	78.3	78.3
	10	34.4	55.1	76.3	76.3
	15	48.4	54.9	75.0	75.1
	20	62.4	54.8	74.2	74.2
	25	76.4	54.6	73.5	73.6
	1	9.2	54.8	79.1	79.2
N10	5	20.4	54.5	77.3	77.3
	10	34.4	53.4	75.7	75.7
	15	48.4	52.4	74.6	74.6
	18	56.8	52.0	74.1	74.1

NSR ID	Level	mPD	Predicted Noise Level, L10(1-hr) dB(A)		
			New Road	Existing Road	Overall
N11	1	9.2	54.4	<b>78.7</b>	<b>78.7</b>
	5	20.4	54.2	<b>76.8</b>	<b>76.8</b>
	10	34.4	53.6	<b>75.6</b>	<b>75.7</b>
	15	48.4	52.9	<b>74.6</b>	<b>74.7</b>
	20	62.4	52.1	<b>73.9</b>	<b>73.9</b>
	24	73.6	51.5	<b>73.4</b>	<b>73.4</b>
N12	1	9.2	55.2	<b>80.4</b>	<b>80.4</b>
	5	20.4	55.2	<b>78.2</b>	<b>78.2</b>
	10	34.4	55.0	<b>76.5</b>	<b>76.6</b>
	15	48.4	54.7	<b>75.4</b>	<b>75.4</b>
N13	1	8.8	—	<b>77.5</b>	<b>77.5</b>
	5	20.0	42.8	<b>75.8</b>	<b>75.8</b>
	10	34.0	54.2	<b>74.6</b>	<b>74.6</b>
	15	48.0	55.5	<b>73.6</b>	<b>73.7</b>
	20	62.0	55.4	<b>73.1</b>	<b>73.1</b>
	24	73.2	55.3	<b>72.7</b>	<b>72.8</b>
N14	1	9.2	—	<b>70.8</b>	<b>70.8</b>
	5	20.4	—	68.4	68.4
	10	34.4	—	67.2	67.2
	15	48.4	—	66.8	66.8
	20	62.4	—	66.4	66.4
	25	76.4	—	66.1	66.1
	30	90.4	45.8	65.8	65.8
N15	1	8.2	48.1	67.5	67.5
	2	11.0	49.9	69.4	69.4
	3	13.7	51.2	<b>71.5</b>	<b>71.6</b>
	4	16.5	53.0	<b>73.5</b>	<b>73.5</b>
N16	1	9.2	54.4	62.0	62.7
	5	20.4	56.0	68.2	68.5
	10	34.4	59.8	<b>70.8</b>	<b>71.1</b>
	15	48.4	62.9	<b>70.7</b>	<b>71.4</b>
	20	62.4	63.5	70.3	<b>71.1</b>
	25	76.4	63.4	69.8	<b>70.7</b>
	30	90.4	63.4	69.3	70.3
N17	1	9.5	48.9	46.2	50.7
	5	20.7	49.3	48.7	52.0
	10	34.7	51.2	56.4	57.5
	15	48.7	53.9	61.4	62.1
	20	62.7	56.8	63.4	64.2
	25	76.7	58.0	63.3	64.4
	30	90.7	58.6	63.1	64.4
	35	104.7	59.1	62.9	64.4
	40	118.7	59.5	63.0	64.6
44	129.9	59.7	63.2	64.8	
N17-A	1	9.5	57.8	—	57.8
	5	20.7	65.3	—	65.3
	10	34.7	69.1	—	69.1
	15	48.7	68.3	—	68.3
	20	62.7	67.6	—	67.6
	25	76.7	67.0	—	67.0
	30	90.7	66.6	—	66.6
	35	104.7	66.4	—	66.5
	40	118.7	66.3	—	66.3
	44	129.9	66.3	44.6	66.3

NSR ID	Level	mPD	Predicted Noise Level, L10(1-hr) dB(A)		
			New Road	Existing Road	Overall
N18	1	13.7	61.1	43.3	61.1
	5	24.3	65.3	45.9	65.4
	10	37.6	64.9	50.7	65.0
	15	50.8	64.7	54.8	65.1
	20	64.1	64.9	56.2	65.4
	25	77.3	65.6	56.7	66.1
	27	82.6	65.9	56.8	66.4
N18-A	1	13.7	64.3	40.5	64.3
	5	24.7	70.3	42.9	70.3
	10	37.6	69.7	47.5	69.7
	15	52.2	69.0	51.7	69.1
	20	64.1	68.6	53.2	68.7
	25	79.7	68.7	53.4	68.8
	27	85.2	68.7	53.4	68.8
N18-B	1	13.7	52.8	—	52.8
	5	24.3	54.1	—	54.1
	10	37.6	55.9	—	55.9
	15	50.8	57.7	—	57.7
	20	64.1	59.5	—	59.5
	25	77.3	61.7	—	61.7
	27	82.6	62.3	—	62.3
N19	1	13.8	51.9	—	52.8
	5	24.4	53.8	49.2	55.1
	10	37.6	56.4	56.0	59.2
	15	50.9	59.2	58.7	61.9
	20	64.1	61.9	59.4	63.9
	25	77.4	63.6	59.4	65.0
	27	82.7	64.0	59.4	65.3
19-A	1	13.8	51.4	—	51.4
	5	24.4	53.1	—	53.1
	10	37.6	55.3	—	55.3
	15	50.9	57.7	—	57.7
	20	64.1	60.2	—	60.2
	25	77.4	62.3	—	62.3
	27	82.7	62.9	—	62.9
N20	1	5.2	—	63.0	63.0
	2	8.2	40.2	64.0	64.0
	3	11.2	41.4	65.2	65.2
	4	14.2	41.9	<b>66.6</b>	<b>66.6</b>
	5	17.2	42.3	<b>68.2</b>	<b>68.2</b>
	6	20.2	42.8	<b>69.3</b>	<b>69.4</b>
	7	23.2	43.2	<b>70.5</b>	<b>70.5</b>
	8	26.2	43.7	<b>71.4</b>	<b>71.4</b>
N21	1	8.2	—	68.8	68.8
	5	19.4	—	<b>73.9</b>	<b>73.9</b>
	10	33.4	—	<b>77.4</b>	<b>77.4</b>
	15	47.4	—	<b>77.5</b>	<b>77.5</b>
	20	61.4	40.6	<b>77.0</b>	<b>77.0</b>
	25	75.4	42.5	<b>76.5</b>	<b>76.5</b>

NSR ID	Level	mPD	Predicted Noise Level, L10(1-hr) dB(A)		
			New Road	Existing Road	Overall
N22	1	8.2	--	70.0	70.0
	5	19.4	--	<b>76.3</b>	<b>76.3</b>
	10	33.4	--	<b>79.0</b>	<b>79.0</b>
	15	47.4	40.1	<b>78.6</b>	<b>78.6</b>
	20	61.4	41.5	<b>78.0</b>	<b>78.0</b>
	25	75.4	42.9	<b>77.4</b>	<b>77.4</b>
N23	1	9.2	--	68.8	68.8
	5	20.4	--	<b>75.0</b>	<b>75.0</b>
	10	34.4	--	<b>76.3</b>	<b>76.3</b>
	15	48.4	--	<b>75.8</b>	<b>75.8</b>
	20	62.4	--	<b>75.2</b>	<b>75.2</b>
	25	76.4	--	<b>74.5</b>	<b>74.5</b>
N24	1	16.1	57.9	--	58.0
	5	27.1	60.3	40.5	60.3
	10	40.9	63.2	41.7	63.2
	15	54.6	65.3	43.7	65.4
	20	68.4	65.9	47.2	66.0
N25	1	10.1	57.4	43.4	57.5
	5	21.1	59.3	44.3	59.4
	10	34.9	62.6	45.7	62.7
	15	48.6	65.1	46.1	65.2
	20	62.4	66.3	47.1	66.4
	24	73.4	66.6	47.9	66.6
P1- A	1	4.8	56.4	<b>68.1</b>	<b>68.4</b>
P1- B	1	4.8	56.5	<b>68.3</b>	<b>68.6</b>
P2	1	8.2	61.6	46.4	61.7
	5	20.2	<b>71.0</b>	49.7	<b>71.0</b>
	10	35.2	<b>75.4</b>	53.8	<b>75.4</b>
	15	50.2	<b>74.1</b>	56.1	<b>74.1</b>
	20	65.2	<b>72.9</b>	56.7	<b>73.0</b>
	25	80.2	<b>72.1</b>	57.1	<b>72.2</b>
	30	95.2	<b>71.6</b>	57.2	<b>71.8</b>
	35	110.2	<b>71.3</b>	57.1	<b>71.5</b>
	40	125.2	<b>71.0</b>	57.0	<b>71.2</b>
	45	140.2	<b>70.7</b>	56.8	<b>70.9</b>
	50	155.2	70.4	56.6	<b>70.6</b>
53	164.2	70.2	56.5	70.4	
P3	1	8.7	61.9	--	61.9
	5	19.7	65.2	--	65.2
	10	33.5	70.4	32.3	70.4
	15	47.2	<b>71.7</b>	34.1	<b>71.7</b>
	20	61.0	<b>71.6</b>	36.6	<b>71.6</b>
	25	74.7	<b>71.2</b>	40.2	<b>71.2</b>
	30	88.5	<b>70.8</b>	46.2	<b>70.8</b>
	34	99.5	<b>70.5</b>	50.9	<b>70.6</b>

Note:

-- Noise level below 40 dB(A) would be considered negligible and hence not shown in the table.