

## APPRAISAL - NOISE POLLUTION

Current Appraisal Year: **2006**

Proposal Opening Year: **2011**

Average Household Size: **2.36**

Project (Road or Rail): **Road**

No. of households experiencing 'Without Scheme' & 'With Scheme' noise levels (given in dB<sub>Leq</sub>) in **Opening Year**

	With Scheme	<45	45-47.9	48-50.9	51-53.9	54-56.9	57-59.9	60-62.9	63-65.9	66-68.9	69-71.9	72-74.9	75-77.9	78-80.9	81+
Without Scheme															
<45			21	19	17	12	2	5							
45-47.9		5	2	23	37	4	6	2	1						
48-50.9			16	14	15	8	8	27	2						
51-53.9			2	3	16	25	3	6							
54-56.9		14	7	15	1	25	11	11	4						
57-59.9			2	4		10	52	86	3	2					
60-62.9					2	1		74	13						
63-65.9									15	34					
66-68.9		1							23	28					
69-71.9			2		6				6	13	12				
72-74.9								2			8				
75-77.9															
78-80.9															
81+															

**No. of households experiencing 'Without Scheme' & 'With Scheme' noise levels (given in dB<sub>Leq</sub>) in 15th Year After Opening**

	With Scheme	<45	45-47.9	48-50.9	51-53.9	54-56.9	57-59.9	60-62.9	63-65.9	66-68.9	69-71.9	72-74.9	75-77.9	78-80.9	81+
<b>Without Scheme</b>															
<45		8	5	11	8	5	17								
45-47.9		3	12	19	44	3	4	6	1						
48-50.9			22	27	7	11	8	6	26						
51-53.9				9	15	38	2	3	6						
54-56.9			2		1		25	12	1						
57-59.9		16	7		15		7	20	11	5					
60-62.9				4	2	1	1	22	48						
63-65.9								1	24	18					
66-68.9			1						22	46					
69-71.9					4					27	12				
72-74.9			2		2			2			8				
75-77.9															
78-80.9															
81+															

**Net Present Value of Noise of Proposal  
(60 Year Period)**

**-£1,197,256.77**

\*positive value reflects a **net benefit** (i.e. noise reduction)

**Estimated Population Annoyed (Without Scheme):**

**250.8101207**

**Estimated Population Annoyed (With Scheme):**

**283.1991256**

**Net Noise Annoyance Change in 15th Year After  
Opening (no. of people):**

**32**

\*positive value reflects an **increase** in people annoyed by noise

**Traffic Data Sources:**

Flows are derived from SATURN outputs.

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**Population Data Sources:**

England and Wales Average Household Size (2.36)

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**Assumptions:**

Calculations have been undertaken in accordance with guidance listed in Calculation of Road Traffic Noise 1988.

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**Assessment scores:**

Slight adverse impact/neutral

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**Qualitative Comments:**

1) No significant impact from night-time noise. 2) No properties experience noise levels in excess of 80dBLAeq18hr. 3) 6 Properties are eligible for an offer of sound insulation. 4) No schools adversely affected.

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