

## **Appendix 11-A Noise Assessment Tables**



**Table 11-A.1 Noise Assessment Opening Year DM v Design Year DM and DS (2010 v. 2025)**

<50 dB Ambient Band	Residential		Commercial		Community		
	Scheme	Do Minimum	Scheme	Do Minimum	Scheme	Do Minimum	
Increase in Noise Level	1<3	3748	1519	4	9	0	5
	3<5	581	0	2	0	0	0
	5<10	148	0	0	0	0	0
	10<15	173	0	1	0	1	0
	>=15	59	0	0	0	0	0
Decrease in Noise Level	1<3	579	0	2	0	1	0
	3<5	0	0	0	0	0	0
	5<10	0	0	0	0	0	0
	10<15	0	0	0	0	0	0
	>=15	0	0	0	0	0	0

**Table 11-A.2 Noise Assessment Opening Year DM v Design Year DM and DS (2010 v. 2025)**

50-60 dB Ambient Band		Residential		Commercial		Community	
		Scheme	Do Minimum	Scheme	Do Minimum	Scheme	Do Minimum
Increase in Noise Level	1<3	1024	585	0	0	0	3
	3<5	78	0	0	0	1	0
	5<10	0	0	0	0	0	0
	10<15	99	0	0	0	2	0
	>=15	0	0	0	0	0	0
Decrease in Noise Level	1<3	529	0	1	0	5	0
	3<5	27	0	0	0	0	0
	5<10	0	0	0	0	0	0
	10<15	0	0	0	0	0	0
	>=15	0	0	0	0	0	0

**Table 11-A.3 Noise Assessment Opening Year DM v Design Year DM and DS (2010 v. 2025)**

60-70 dB Ambient Band	Residential		Commercial		Community	
	Scheme	Do Minimum	Scheme	Do Minimum	Scheme	Do Minimum
Increase in Noise Level	1<3	915	13	3	0	0
	3<5	258	1	0	0	0
	5<10	41	0	0	0	0
	10<15	0	0	0	0	0
	>=15	0	0	0	0	0
Decrease in Noise Level	1<3	422	0	0	0	0
	3<5	58	0	0	0	0
	5<10	0	0	0	0	0
	10<15	0	0	0	0	0
	>=15	0	0	0	0	0

**Table 11-A.4 Noise Assessment Opening Year DM v Design Year DM and DS (2010 v. 2025)**

>70 dB Ambient Band	Residential		Commercial		Community	
	Scheme	Do Minimum	Scheme	Do Minimum	Scheme	Do Minimum
Increase in Noise Level	1<3	186	1	0	0	0
	3<5	0	0	0	0	0
	5<10	0	0	0	0	0
	10<15	0	0	0	0	0
	>=15	0	0	0	0	0
Decrease in Noise Level	1<3	125	0	0	1	0
	3<5	0	0	0	0	0
	5<10	0	0	0	0	0
	10<15	0	0	0	0	0
	>=15	0	0	0	0	0

**Table 11-A.5 Noise Nuisance Assessment in the Design Year v Opening Year (DS 2010 & DS 2025 v DM 2025)**

<b>&lt;50 dB Ambient Band</b>		<b>Residential</b>	
		<b>Scheme</b>	<b>Do Minimum</b>
Increase in Nuisance Level	0 TO <10%	120	1007
	10% TO <20%	1807	0
	20% TO <30%	2266	0
	30% TO <40%	249	0
	>=40%	267	0
Decrease in Nuisance Level	0 TO <10%	579	0
	10% TO <20%	0	0
	20% TO <30%	0	0
	30% TO <40%	0	0
	>=40%	0	0

**Table 11-A.6 Noise Nuisance Assessment in the Design Year v Opening Year (DS 2010 & DS 2025 v DM 2025)**

<b>50-60 dB Ambient Band</b>		<b>Residential</b>	
		<b>Scheme</b>	<b>Do Minimum</b>
Increase in Nuisance Level	0 TO <10%	283	469
	10% TO <20%	473	0
	20% TO <30%	321	0
	30% TO <40%	25	0
	>=40%	99	0
Decrease in Nuisance Level	0 TO <10%	556	0
	10% TO <20%	0	0
	20% TO <30%	0	0
	30% TO <40%	0	0
	>=40%	0	0



**Table 11-A.7 Noise Nuisance Assessment in the Design Year v Opening Year (DS 2010 & DS 2025 v DM 2025)**

60-70 dB Ambient Band		Residential	
		Scheme	Do Minimum
Increase in Nuisance Level	0 TO <10%	194	1156
	10% TO <20%	494	0
	20% TO <30%	459	0
	30% TO <40%	67	0
	>=40%	0	0
Decrease in Nuisance Level	0 TO <10%	480	0
	10% TO <20%	0	0
	20% TO <30%	0	0
	30% TO <40%	0	0
	>=40%	0	0

**Table 11-A.8 Noise Nuisance Assessment in the Design Year v Opening Year (DS 2010 & DS 2025 v DM 2025)**

<b>&gt;70 dB Ambient Band</b>		<b>Residential</b>	
		<b>Scheme</b>	<b>Do Minimum</b>
<b>Increase in Nuisance Level</b>	0 TO <10%	0	310
	10% TO <20%	138	0
	20% TO <30%	48	0
	30% TO <40%	0	0
	>=40%	0	0
<b>Decrease in Nuisance Level</b>	0 TO <10%	125	0
	10% TO <20%	0	0
	20% TO <30%	0	0
	30% TO <40%	0	0
	>=40%	0	0

## **Appendix 11-B List of Representative Receptors**



Table 11-B.1 Representative Receptors

Receiver Location	Receptor Address	Residential Properties	Commercial Properties	Community Properties
1	42 Downlands Avenue	61		
2	64 Downlands Avenue	40		
3	98 Reginald Road	78	2	
4	44 Amherst Road	189	1	
5	84 London Road	51	2	
6	7 Millfield Rise	35		
7	78 Amherst Road	17		
8	36 Bell Hill	4		
9	60 Belle Hill	12		
10	Mercia Court	48		
11	5 Hunting Close	8		2
12	111 Belle Hill	10		
13	11 King Offa Way	6		
14	112 London Road	10		
15	26 Salisbury Road	17		
16	10 Edinburgh Road	9		1
17	27 Salisbury Road	55		
18	13 Barrack Road	14		
19	20 Barrack Road	10		
20	5 Hanover Close	21		
21	52 Barrack Road	7		
22	130 London Road	7		
23	140 London Road	8		
24	Chantry County Primary School			
25	7 Dayencourt North	141		
26	162 London Road	16		
27	7 St Patrick's Crescent	124		1
28	173 London Road (Rear)	17		
29	173 London Road (Front)	17		
30	4 Bending Crescent	19		
31	209 & 211 London Road	12		
32	51 Bancroft Road	13		
33	27 Bancroft Road	10		
34	26 Bancroft Road	30		
35	9 Bancroft Road	12		
36	27 Woodsgate Park	78		
37	20 Dane Court Close	15		
38	124 Buxton Drive	13		
39	113 Buxton Drive	16		
40	12 to 16 Rother Court	16		
41	7 to 12 Honies Court (Rear)	22		
42	7 to 12 Honies Court (Front)	22		
43	192 London Road	13		
44	18 Woodsgate Avenue	112		
45	52 Beaconsfield Road	97	4	
46	Bexhill High School (south-east)			1
47	Bexhill High School (north-east)			1
48	14 Grange Court Drive	47		
49	76 Buxton Drive	26		
50	75 Buxton Drive	35		
51	279 London Road	73	1	
52	53 Havelock Road	26		
53	238 London Road	18		
54	40a Hollier's Hill	86	2	
55	14 St James' Road	96		
56	Pelham Hotel, Wrestwood Road	12	1	
57	15 Birchview	22		
58	27 Buxton Drive	21		
59	22 Buxton Drive	30		
60	29 Bodle Crescent	58	2	

Table 11-B.1 Representative Receptors (continued)

Receiver Location	Receptor Address	Residential Properties	Commercial Properties	Community Properties	Receiver Location	Receptor Address	Residential Properties	Commercial Properties	Community Properties
61	Sidley County Primary School			1	91	Upper Witting Farm	1		
62	3 Highfield Gardens	6			92	2 Upper Witting Farm Cottages	5		
63	5a Ninfield Road	15			93	15 Watermill Drive	26		
64	1 to 37 Auckland House	37			94	38 Watermill Drive	49		
65	9 Westwood Road	30			95	14 Hartfield Meadow	155		
66	29 St James' Avenue	22			96	14 Firmwell Close	17		
67	10 St James' Avenue	34			97	30 Whatlington Way Sports Centre on Little Common Rd	74		2
68	30 St James' Crescent	46			98			14	1
69	3 St James' Close	14			99	4 Beeching Road		11	
70	35 St James' Crescent	14			100	Garage on Beeching Road			
71	7 St James' Close	4			101	St. Peter and St. Paul, junior school			1
72	1 to 31 Strome House	41			102	Bexhill Down Cricket Ground			1
73	19 Meadow Crescent	89			103	Leisure Centre off Down Road			1
74	7 Eldenwood Close	14			104	Chinese restaurant		1	
75	1 Glovers Lane	60	1		105	Garage on A259		1	
76	17 Crowhurst Lane	80			106	Bexhill Hospital Recreation Ground off Canada Way			1
77	12 Glenburn Close	28			107				1
78	Glovers Farm (north)	1			108	Robsack Wood School			1
79	Glovers Farm (south)	1			109	63 Holliers Hill (north)	1		
80	Buckholt Kennels	1			110	63 Holliers Hill (east)	1		
81	Actons Farm	1			111	63 Holliers Hill (south)	1		
82	Little Actons	1			112	Hemiker Farm Cottages	2		
83	Actons Cottage	1			113	Mayfield Farm Community Centre off Bodiam Drive	1		
84	1 Buckholt Cottages	2			114	Community Centre off Bodiam Drive			1
85	Byne's Farm	1			115				1
86	Hillcroft Farm	1			116	Recreation Ground			1
87	Adams Farm (south)	1			117	Four Winds Cottage	2		
88	Adams Farm (east)	1			118	Whitefields / Woodside	6		
89	Lower Witting Farm House	1			119	2 Woodland Way	8		
90	The White House	1			120	Whealers Yard / Florida	65		

Table 11-B.1 Representative Receptors (continued)

Receiver Location	Receptor Address	Residential Properties	Commercial Properties	Community Properties
121	Prospect Lodge	15		
122	Uplands / Nashes Farm	10		
123	The Elms	12		
124	Mousecroft	18		
125	Watermill Shaw	25		
126	Cobb's Hill Farm	6		
127	10 Robsack Avenue	39		
128	6 Ironlatch Close	140		
129	214 Harley Shute Road	84		
130	20 Gillsman's Park	156		
131	5 Darwell Close	64		
132	35 Kite Close	77		
133	80 Reedswood Road	216		
134	27 Reedswood Road	94		
135	121 Edinburgh Road	114		
136	23 William Road	62		
137	55 Harley Shute Road	85		
138	9 Harley Way	37		
139	237 Bexhill Road	28		
140	72 Bulverhythe Road Harley-Meads (Caravan Park) [Est]	176		
141	330 Bexhill Road	200		
142	176 Bexhill Road	92		
143	Depot off Bexhill Road		1	
144	Carriage Shed off Cliftonville Road		1	
145	Saxon Mount School		1	
146	West St Leonards Primary School			1
147	The Grove School (South Façade)			1
148	The Grove School (North Façade)			1
149	Garage off Bexhill Road		1	
150				
151	Site off Bexhill Road			
152	440 Bexhill Road	174	1	
153	5 Hythe Avenue	118		1
154	Ravenside Retail & Leisure Park	6		1
155	Ravenside Retail & Leisure Park			1
156	Ravenside Retail & Leisure Park			1
157	Glynn Gap School			1
158	12 Glassenbury Drive	213		
159	157 / 159 De La Warr Road	77		
160	Warehouses on Brett Drive	9	1	
161	142 College Road	254		
162	134 De La Warr Road	34		
163	Building off Penland Road			1
164	9 Woodland Rise	33		
165	14 Saxon Rise	47		
166	83 / 85 De La Warr Road	39		
167	3 Martlets	52		
168	63 Links Drive	35		
169	2 Elmstead Road	196		
170	74 Links Drive	59		
171	2 Fairmount Road	6		
172	54 Manor Road	80		
173	21 Portfield Close	289		
174	17 De La Warr Road	113		
175	15 Lychgates Close	33		
176	1 to 36 Peterhouse	48		
177	St Peters Church	1		
178	My Way Lodge off Ridge West			1
179	Store off Sedlescombe Road North	13	1	
180	14/16 Westfield Lane	56		

Table 11-B.1 Representative Receptors (continued)

Receiver Location	Receptor Address	Residential Properties	Commercial Properties	Community Properties	Receiver Location	Receptor Address	Residential Properties	Commercial Properties	Community Properties
181	220 Harrow Lane	10			211	New Barn Farm	2		
182	786 The Ridge	33			212	Burgroves	9		
183	Beaulieu Farm, The Ridge	7			213	Glebe Cottage	14		
184	2 Francis Bird Place	34			214	Nut Brown Farm		1	
185	Helenswood School, Maplehurst		1		215	The Parsonage Farm	21		
186	Conquest Hospital		1		216	Hall's Cross Farmhouse	14		
187	Leisure Centre off the Ridge		1		217	Mill Bank Farm		1	
188	34 Chancetonbury Drive	260			218	The Coach House		2	
189	16 Park Wood Road	42			219	Highfields	13		
190	4 Sandrock Park	14			220	Dewbys Farm	67		
191	11 The Dene	11			221	The Old School		1	
192	3 Denehurst Gardens	50			222	Highland	40		
193	14 De Chardin Drive	20			223	Woodland View	18		
194	Osborne House, The Ridge		1		224	New House Barn	51		
195	2 Pilot Road	44			225	Chestnut Grove	16		
196	St Helen's Cemetery			1	226	The Jays	47		
197	Helenswood School			1	227	Eastlands Farm		1	
198	200 The Ridge	40			228	15 Skinner's Lane	40		
199	Pine Hill, St Helen's Down	15			229	Wilton House Riding Centre	1		
200	Ivy House Lane		6		230	Woodlands Farm	1		
201	5 Playden Gardens	10			231	The Emerald	36		
202	131 The Ridge	19			232	Little Standard Hill Farm	1		
203	50 The Ridge	41	1		233	Hazard's Green Farmhouse	19		
204	59 The Ridge			1	234	Quarry Works off A269	1	1	
205	Fire Station off the Ridge	6			235	Lower Standard Hill Farm	101		
206	28 The Ridge			1	236	Greytles	137		
207	School	17			237	Myrtle Cottage	120		
208	Winchelsea Road	44			238	11 Downs View	54		
209	Old London Road				239	Downsview			
210	New Barn Farm (farm out buildings)		1		240	Glendale	10		



**Table 11-B.1 Representative Receptors (continued)**

Receiver Location	Receptor Address	Residential Properties	Commercial Properties	Community Properties	Receiver Location	Receptor Address	Residential Properties	Commercial Properties	Community Properties
241	Garage off A269	1			272	The Old Rectory (Nursing Home)		1	
242	Robin Hood	7			273	Burnhams Forewood Lane	66		
243	Stone Cottages	12			274	Lilac Spinney Station Road	40		
244	Brunel Road Industrial Estate		100		275	Farmhouse on Station Road		1	
245	55 Carpenter Drive	264			276	Statton House Craig Close	28		
247	6 Crecy Close	90			277	Springfields	9		
248	7 Beauport Gardens	12			278	8 The Ridings	33		
249	3 Beauport Home Farm Close	15			279	39 Clich Green Avenue	174		
250	28 Beauport Home Farm Close	53			280	21 Cooper Drive	255		
251	Ashdown House		4		281	Dell View, Waterrill Lane	75		
252	15 Downey Close	105			282	37 Faygate Close	107		
253	20 Greenfields Close	80			283	5 Preston Road	244		
254	207 Harrow Lane	19			284	All Saints' Church			1
255	441 The Ridge	77			285	All Saints C of E School			1
256	406 The Ridge	29			286	57 Edmonton Road	99		
257	14 Vinehall Close	53			287	73 Ninfield Road	19		
258	4 Kildare Close	49			288	76/78 Ninfield Road	21		
259	57a Pine Avenue	37			289	9 Sidley Street	61		
260	163 Malvern Way	156			290	Cherry View Ellerslie Lane	59		
261	93 Victoria Avenue	251			291	17 Fryatts Way	26		
262	45 Victoria Avenue	197			292	29 Broad View	134		
263	53 Grove Road	130			293	12 Foxhill	22		
264	Store off Rye Road	1			294	2 Deerswood Lane	62		
265	Christ Church on Old London Road	1			295	6 Bale Close	128		
266	Industrial Estate Haywood Way		17		296	17 Millham Close	137		
267	Moonrakers Hastings Road	14			297	Adult Handicapped Centre			1
268	179 Hastings Road	39			298	2 Little Common Road	24		
269	124 Hastings Road	36			299	7 Dalmeny Road	100		
270	St-Ann's Telham Lane	24			300	22 Fowlers Close	13		

**Table 11-B.1 Representative Receptors (continued)**

Receiver Location	Receptor Address	Residential Properties	Commercial Properties	Community Properties	Receiver Location	Receptor Address	Residential Properties	Commercial Properties	Community Properties
301	9 The Grove	16			322	40 Sutherland Avenue	29		
302	8 Eden Drive	202			323	20 Sutherland Avenue	20		
303	10 Fairfield Chase	24			324	11 Holmesdale Road	55		
304	6 Cranston Close	45			325	17 Willingdon Avenue	228		
305	24 Pinewoods	44			326	53 Little Common Road	57		
306	3 Robin Hill	46			327	17 Sandown Way	217		
307	5 Grenada Close	49			328	5 Roundacres Way	30		
308	11 Peartree Lane	169			329	St Mark's Church			1
309	Harwell Little Common Road	37			330	Little Common Country School			1
311	Church on Shepherd's Close	50			331	St Martha's Catholic Church			1
312	40 to 42 Cooden Sea Road	64		1					

## **Appendix 11-C WebTAG**



APPRAISAL - NOISE POLLUTION															
Current Appraisal Year:	2007														
Proposal Opening Year:	2010														
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	3713	1050	93	3	30	0	4	0	0	0	0	0	0	0	0
45-47.9	223	1577	302	45	22	108	0	17	0	0	0	0	0	0	0
48-50.9	9	514	1127	25	0	46	0	0	0	0	0	0	0	0	0
51-53.9	0	0	257	500	13	0	0	16	0	0	0	0	0	0	0
54-56.9	0	0	0	154	230	33	0	0	37	0	0	0	0	0	0
57-59.9	0	0	0	0	42	403	44	0	0	0	0	0	0	0	0
60-62.9	0	0	0	0	51	82	268	56	0	0	0	0	0	0	0
63-65.9	0	0	0	0	0	0	183	552	0	0	0	0	0	0	0
66-68.9	0	0	0	0	0	0	0	327	610	34	0	0	0	0	0
69-71.9	0	0	0	0	0	0	0	0	126	323	0	0	0	0	0
72-74.9	0	0	0	0	0	0	0	0	0	68	65	0	0	0	0
75-77.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78-80.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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+
Without Scheme															
<45	3135	589	38	30	17	15	0	4	0	0	0	0	0	0	0
45-47.9	212	2332	341	35	22	108	0	17	0	0	0	0	0	0	0
48-50.9	0	386	1488	35	0	46	0	0	0	0	0	0	0	0	0
51-53.9	0	18	253	345	53	0	0	16	0	0	0	0	0	0	0
54-56.9	0	0	0	164	261	48	0	0	37	0	0	0	0	0	0
57-59.9	0	0	0	0	66	192	214	0	0	0	0	0	0	0	0
60-62.9	0	0	0	0	12	121	210	160	41	0	0	0	0	0	0
63-65.9	0	0	0	0	0	42	130	132	102	0	0	0	0	0	0
66-68.9	0	0	0	0	0	0	7	253	985	34	0	0	0	0	0
69-71.9	0	0	0	0	0	0	0	0	78	368	57	0	0	0	0
72-74.9	0	0	0	0	0	0	0	0	0	49	84	0	0	0	0
75-77.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78-80.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Present Value of Noise of Proposal (60 Year Period)		-£1,574,250.61 <small>*positive value reflects a net benefit (i.e. noise reduction)</small>													
Estimated Population Annoyed (Without Scheme):		3127.0													
Estimated Population Annoyed (With Scheme):		3224.3													
Net Noise Annoyance Change in 15th Year After Opening (no. of people):		97 <small>*positive value reflects an increase in people annoyed by noise</small>													
Traffic Data Sources:		EnvOut_nov.xls received 30/11/2006													
Population Data Sources:		2.36 population density function as Tag Unit 3.3.2, para.1.53.													
Assumptions:		CRTN calculation corridor width 600m, centred.													
Assessment scores:		97 more people will be annoyed by traffic noise. The NPV of Noise for the Scheme is -£1,574,250.61													
Qualitative Comments:		Tranquil areas of countryside are adversely affected by the Scheme. Some schools, recreational areas and hospitals are also adversely affected at a slight impact level.													

**Worksheet 1** **Environment: Noise - Plan Level**  
**Calculation of Estimated Population Annoyed (EPA) by Noise**

<b>Option Name:</b> BHLR Scheme		<b>Year:</b> 2007		<b>Mode:</b> ROAD	
<b>Noise Level (LA10,18hr dB)</b>	<b>Opening Year</b>		<b>15th Year After Opening</b>		
	<b>Estimated Population Exposed - Without Scheme</b>	<b>Estimated Population Exposed - With Scheme</b>	<b>Estimated Population Exposed - Without Scheme</b>	<b>Estimated Population Exposed - With Scheme</b>	
<45	11547	9310	9034	7899	
45<48	5414	7413	7238	7847	
48<51	4062	4198	4614	5003	
51<54	1855	1716	1617	1437	
54<57	1071	916	1204	1017	
57<60	1154	1586	1114	1241	
60<63	1079	1178	1284	1433	
63<66	1735	2284	958	1374	
66<69	2292	1824	3018	2933	
69<72	1060	1003	1187	1064	
72<75	314	153	314	333	
75<78	0	0	0	0	
78<81	0	0	0	0	
>81	0	0	0	0	

## **Appendix 11-D Seasonal Data Analysis**









## **Appendix 11-E Construction Programme**



**Table 11-E.1 Construction Programme**

Construction Activity	Programme of Works		
	Duration	Start Date	End Date
<b>ADVANCE WORKS</b>	<b>90 days</b>	<b>28-Jul-08</b>	<b>28-Nov-08</b>
Compounds & Traffic management	26 days	28-Jul-08	01-Sep-08
Erect boundary and noise fencing	25 days	02-Sep-08	06-Oct-08
Site clearance (vegetation)	119 days	09-Sep-08	11-Nov-09
Site clearance (demolition) Buildings at Belle Hill junction	282 days	01-Sep-08	14-Oct-08
<b>EARTHWORKS</b>	<b>327 days</b>	<b>15-Sep-08</b>	<b>15-Dec-09</b>
Topsoil Strip	56 days	16-Sep-08	02-Dec-08
Construct Haul Route	57 days	15-Sep-08	02-Dec-08
Install Temporary Crossings	42 days	16-Sep-08	12-Nov-08
Pre-earthworks drainage	67 days	22-Sep-08	23-Dec-08
Excavation (stage 1)	173 days	29-Sep-08	27-May-09
Excavation (stage 2)	74 days	30-Mar-09	09-Jul-09
Borrow Pits	208 days	30-Mar-09	23-Oct-09
Band Drains	40 days	30-Oct-08	24-Dec-08
Starter Layer	70 days	10-Oct-08	15-Jan-09
Fill (stage 1)	165 days	01-Oct-08	19-May-09
Fill (Stage 2)	177 days	13-Apr-09	15-Dec-09
Landscape Mitigation Bunding [as Fill]	150 days	30-Mar-09	23-Oct-09
Greenway construction (Earthworks)	183 days	24-Sep-08	05-Jun-09
<b>DRAINAGE</b>	<b>347 days</b>	<b>15-Oct-08</b>	<b>11-Feb-10</b>
Belle Hill Underground Storage Tank	339 days	15-Oct-08	03-Feb-09
Drainage	347 days	15-Oct-08	11-Feb-10
<b>PAVEMENT CONSTRUCTION</b>	<b>264 days</b>	<b>13-Apr-09</b>	<b>15-Apr-10</b>
Concrete Edge Channel	191 days	14-Apr-09	05-Jan-10
Capping Layer (Stabilized)	187 days	13-Apr-09	29-Dec-09
Sub-base	191 days	14-Apr-09	05-Jan-10

Construction Activity	Programme of Works		
	Duration	Start Date	End Date
Kerbing	91 days	15-Apr-09	19-Aug-09
Surfacing (Flexible P) [Road Base]	181 days	06-May-09	13-Jan-10
Surfacing (Flexible P) [Binder Course]	196 days	12-May-09	09-Feb-10
Surfacing (Flexible P) [Wearing Course]	202 days	20-May-09	25-Feb-10
Surfacing (Flexible P) [Off-line S.W.]	35 days	26-Feb-10	15-Apr-10
<b>STRUCTURES</b>	<b>405 days</b>	<b>28-Jul-08</b>	<b>12-Feb-10</b>
Retaining Walls	80 days	01-Jun-09	18-Sep-09
Demolition of existing bridges (Woodsgate Park)	7 days	05-Nov-08	11-Nov-08
Demolish existing bridge (Ninfield Rd) (Pt1: 27/4/09 to 1/5/09 Pt2: 23/9/09 to 29/9/09)	156 days	27-Apr-09	29-Sep-09
New bridges (Woodsgate)	143 days	17-Sep-08	03-Apr-09
New bridges (Ninfield Rd)	380 days	01-Sep-08	12-Feb-10
New bridges (Glovers Farm Overbridge)	128 days	21-Jan-09	17-Jul-09
New bridges (Actons Farm Overbridge)	104 days	22-Apr-09	14-Sep-09
New bridges (Hillcroft Farm Overbridge)	104 days	08-Jul-09	30-Nov-09
Adam's Farm Overbridge	104 days	22-Apr-09	14-Sep-09
New bridges (Combe Haven Underbridge)	87 days	19-Nov-08	19-Mar-09
Sheet pile cut off wall	21 days	19-Nov-08	09-Dec-08
New bridges (Watermill Stream)	87 days	03-Sep-09	01-Jan-10
Pile foundations	7 days	24-Sep-09	30-Sep-09
New bridges (Powdermill Valley Stream)	87 days	12-May-09	09-Sep-09
Pile foundations	7 days	02-Jun-09	08-Jun-09
New bridges (Powdermill Stream)	87 days	16-Jan-09	18-May-09
Pile foundations	7 days	06-Feb-09	12-Feb-09
New bridges (Decoy Pond Stream)	87 days	24-Sep-08	22-Jan-09
Pile foundations	7 days	15-Oct-08	21-Oct-08
New bridges (Crowhurst Underbridge)	97 days	02-Sep-08	14-Jan-09

Construction Activity	Programme of Works		
	Duration	Start Date	End Date
Rail bridge	200 days	28-Jul-08	01-May-09
Culverts (900mm dia pipes) [Drainage]	145 days	24-Jun-09	12-Jan-10
New bridges [Greenway construction]	198 days	05-Nov-08	07-Aug-09
New bridges [Urban Footbridges]	100 days	04-May-09	18-Sep-09
<b>FINISHES</b>	<b>299 days</b>	<b>02-Mar-09</b>	<b>22-Apr-10</b>
Erect b. & n. fencing [Noise Fencing]	138 days	02-Mar-09	17-Jul-09
Road Markings	21 days	26-Feb-10	18-Mar-10
Road Signs	56 days	26-Feb-10	22-Apr-10
Traffic Loops	28 days	26-Feb-10	25-Mar-10
Street Lighting	84 days	06-Aug-09	28-Oct-09
Street Lighting	84 days	06-May-09	28-Jul-09
Road Restraint System	56 days	26-Feb-10	22-Apr-10
<b>COMMISSIONING</b>	<b>1 day</b>	<b>23-Apr-10</b>	<b>23-Apr-10</b>





## **Appendix 11-F Construction Plant Activity Scenarios**



**Table 11-F.1 Construction Plant Activity Scenarios**

Activity	Plant	Defra Plant	No.in Team	% on-Time	Overall LWA [dB]
<b>1. Advance works</b>					
Compounds & Traffic management	Tracked 20 t Excavator	96	2	50	115
	D4(Tracked dozer)	107	2	50	
	Vibratory roller	105	2	25	
	Mobile 30 t crane / HIAB	93	1	10	
	8 wheel tipper	108	4	75	
	Generator (Power to offices)	90	2	100	
	Temporary Traffic Lights (Gen)	93	2	100	
	Ready Mix Concrete Wagon	103	1	10	
Floodlights	93	8	100		
Erect boundary and noise fencing	Tracked 20 t Excavator	96	2	50	106
	Flatbed truck with HIAB	103	2	75	
	Mini Excavator	97	2	75	
Site clearance (vegetation)	Tracked 30 t Excavator	103	2	90	117
	6 t dumper	99	3	75	
	Artic Dump Truck (A30)	107	4	90	
	Chipper / stump grinder	112	2	25	
	Mobile Elevated Work Platform	97	1	25	
	Chainsaw	112	2	50	
	Water Pump	93	1	100	
Site clearance (demolition)	Tracked 30 t Excavator	103	2	75	115
	Montebert Hammer	117	1	25	
	Crushing Plant (Mobile)	111	1	75	
	Tractor and bowser (water)	110	1	75	
	Loading Shovel	105	1	75	
<b>2. Earthworks</b>					
Topsoil Strip	Tracked 30 t Excavator	103	2	90	121
	6 t dumper	99	2	75	
	Artic Dump Truck (A30)	107	4	90	
	D6 (Tracked dozer)	107	2	75	
	CAT 631 Tractor Scraper	117	2	80	
Construct Haul Route	Tracked 30 t Excavator	103	2	90	121
	6 t dumper	99	2	75	
	Artic Dump Truck (A30)	107	4	90	
	D6 (Tracked dozer)	107	2	75	
	CAT 631 Tractor Scraper	117	2	80	
Install Temporary Crossings	All terrain 50 t crane	98	1	10	105
	Mini-piling rig (CFA)	103	1	25	
	Ready Mix Concrete Wagon	103	2	20	
	Delivery lorry (artic)	108	2	10	
	Generator for small tools	90	2	80	

Activity	Plant	Defra Plant	No.in Team	% on-Time	Overall LWA [dB]
<b>2. Earthworks</b>					
Pre-earthworks drainage	Tracked 15 t excavator	98	2	50	102
	6 t dumper	99	2	35	
	Water pump	93	2	100	
Excavation	Tracked 40 t excavator	105	4	90	119
	Artic dump trucks (A30)	107	12	90	
	D6 tracked dozer	107	2	80	
	Water pump	93	2	100	
Borrow Pits	Tracked 40 t excavator	105	1	60	112
	Artic dump trucks (A30)	107	3	75	
	D6 tracked dozer	107	1	40	
	Water pump	93	1	100	
Band Drains	Installation rig	98	2	50	101
	JCB 3CX	93	1	50	
	Tracked 20 t excavator	96	1	25	
	6 t dumper	99	2	25	
Starter Layer	Tracked 30 t excavator	103	1	50	113
	Artic dump trucks (A30)	107	1	25	
	D6 tracked dozer	107	1	50	
	Vibratory roller	105	1	25	
	8 wheel tipper	108	5	50	
Fill	Tracked 30 t excavator	103	2	50	115
	Artic dump trucks (A30)	107	6	50	
	D6 tracked dozer	107	2	90	
	Vibratory roller	105	2	25	
Greenway Construction (Fill)	Tracked 15 t excavator	96	1	50	109
	6 t dumper	99	2	90	
	D4 tracked dozer	107	1	90	
	Vibratory roller	105	1	25	
	JCB 3CX	93	1	90	
Belle Hill Underground Storage Tank	Sheet Piling Rig	91	1	75	113
	Rotary CFA piling Rig (Alt)	111	1	75	
	Tracked 40 t excavator	105	1	60	
	Artic Dump Truck (A30)	107	3	50	
	Water Pump (Dewatering)	93	2	100	

Activity	Plant	Defra Plant	No.in Team	% on-Time	Overall LWA [dB]
<b>2. Earthworks (cont)</b>					
Drainage	Tracked 20 t excavator	96	1	50	114
	Tracked 30 t excavator	103	1	50	
	Mini excavator	97	2	75	
	JCB 3CX	93	2	80	
	6 t dumper	99	4	80	
	8 wheel tipper	108	2	25	
	Disc cutter	115	2	10	
	Trench boxes / shores		2	na	
	Trench compactor	105	2	10	
	Wacker Plate	108	2	10	
	Water pump	93	4	100	
	Compressor & Jackhammer	110	2	20	
Generator (small portable)	98	4	75		
<b>3. Pavement Construction</b>					
Concrete Edge Channel	Slip Form paver	106	1	75	110
	Ready Mix concrete wagon	103	2	10	
	JCB 3CX	93	1	35	
	Compressor & Jackhammer	110	1	25	
	Scabblar	111	1	10	
	Disc cutter	115	1	10	
Capping Layer (Stabilized)	Rotatory paver (Wirtgen type)	111	1	75	111
	Vibratory Roller	105	1	40	
	D6 tracked dozer	107	1	40	
Sub-base	D4 (Tracked dozer)	107	2	75	113
	Tracked 20 t excavator	96	2	50	
	Vibratory roller	105	2	40	
	8 wheel tipper	108	4	40	
Kerbing	4WD Forklift	114	1	60	114
	Kerb vacuum lifter (forklift)		1	60	
	Disc cutter	115	1	20	
	Compressor & jackhammer	110	1	20	
Surfacing (Flexible Pavement): Road Base, Binder Course, Wearing Course, Off-line S.W	Paver	106	1	75	117
	Vibratory roller	105	1	75	
	Deadweight roller	108	2	75	
	8 wheel tipper	108	6	60	
	Tar pot / boiler	103	1	75	
	Disc cutter	115	1	20	
	Compressor & jackhammer	110	1	30	
	JCB 2CX Tractaire	93	1	75	
	Planer (say 1m for tie ins)	111	1	60	

Activity	Plant	Defra Plant	No.in Team	% on-Time	Overall LWA [dB]
<b>4. Structures</b>					
Retaining Walls	Tracked piling rig (CFA)	111	1	75	113
	Tracked 20 t excavator	96	1	50	
	6 t dumper	99	1	50	
	Water pump	93	1	100	
	Disc cutter	115	1	20	
	Compressor & jackhammer	110	1	20	
	Ready Mix Concrete Wagon	103	2	20	
Demolition of existing bridges	Tracked 30 t excavator	103	2	75	115
	Montevert Hammer	117	1	30	
	Demolition shears (excavator)	103	1	30	
	Compressor & Jackhammer	110	1	20	
	Artic dump truck (A30)	107	2	40	
	8 wheel tipper	108	2	20	
	Water pump	93	1	100	
	Floodlights (self contained)	93	8	20	
	Disc cutter	115	1	10	
New bridges	Mobile crane 500 tonne	100	1	10	116
	Crawler crane (Andes type)	100	1	65	
	Compressors	112	2	40	
	Generators (small portable)	98	2	90	
	Disc Cutter	115	1	20	
	Air lance / scabblers	111	1	10	
	Power float	100	2	20	
	Carpenters circular saw / drills	107	5	50	
	Concrete pump	104	1	10	
	Floodlights (self-contained)	93	8	20	
	Ready Mix Concrete Wagon	103	4	40	
	Material delivery trucks (artics)	108	2	10	
Rail bridge	Mobile Crane 800 tonne	100	2	10	117
	Crawler crane (Andes type)	100	1	60	
	Compressors	112	2	20	
	Generators (small portable)	98	2	90	
	Disc Cutter	115	1	20	
	Air lance / scabblers	111	2	10	
	Power float	100	2	10	
	Carpenters circular saw / drills	107	6	50	
	Concrete pump	104	1	25	
	Floodlights (self-contained)	93	8	100	
	Ready Mix Concrete Wagon	103	4	40	
	Material delivery trucks (artics)	108	4	40	
Sheet piling cut off walls to bridges	Sheet piling rig	91	1	75	90

Activity	Plant	Defra Plant	No.in Team	% on-Time	Overall LWA [dB]
<b>4. Structures</b>					
Piling works to new bridges	Tracked piling rig (CFA)	111	1	75	112
	Tracked 20 t excavator	96	1	30	
	6 t dumper	99	1	30	
	Water pump	93	1	100	
	Disc cutter	115	1	10	
	Ready Mix Concrete Wagon	103	2	20	
	Compressor & jackhammer	110	1	20	
<b>5. Finishes</b>					
Road Markings	Thermic Lance	113	1	5	108
	Scabber	111	1	25	
	Markings lorry / boiler	103	1	90	
	Rib-line trailer	82	1	25	
Road Signs	MEWP (Mobile Elevation Work Platform)	97	1	25	103
	Flatbed lorry with HIAB	103	1	50	
	Mini Excavator with auger	97	1	25	
	Ready Mix Concrete Wagon	103	2	20	
Traffic Loops	Floor Saw	115	1	75	114
	Disc cutter	115	1	10	
Street Lighting	MEWP (Mobile Elevation Work Platform)	97	1	50	104
	Flatbed lorry with HIAB	103	1	50	
	Mini Excavator with auger	97	1	50	
	Ready Mix Concrete Wagon	103	2	20	
Road Restraint System	Post driver	121	2	90	124
	Flatbed lorry with HIAB	103	2	50	
	Mini Excavator with auger	97	1	50	
	Compressor & jackhammer	110	1	20	
	Ready Mix Concrete Wagon	103	2	20	

## **Appendix 11-G Baseline Noise Level Survey**



## **Appendix 11-H Construction Noise Levels**