

Appendix A9.6

Road Traffic Flows during Demolition and Construction Activities

Table A9.6.1: Baseline and 'During Construction' 18h AAWT flows, CRTN Method

Link	Baseline			During Construction (DC)			Difference		Percentage Change		Baseline	DC	Change
	18h AAWT	HDVs	% HDV	18h AAWT	HDVs	% HDV	18h AAWT	HDVs	18h AAWT	HDVs	BNL* (dB)	BNL* (dB)	dB
Arthur St (s) ⁺	3,103	779	25	60	60	100	-3,043	-719	-98	-92	66.6	54.4	-12.1
A3211 U Thames St (e)	44,471	6,925	16	44,531	6,985	16	60	60	0	1	76.7	76.8	0.0
A3211 U Thames St (w)	44,402	6,669	15	45,317	7,094	16	915	425	2	6	76.6	76.8	0.2
King William St (n)	26,241	4,976	19	28,491	5,336	19	2,250	360	9	7	75.0	75.3	0.3
King William St (s)	28,496	5,359	19	28,669	5,532	19	173	173	1	3	75.3	75.4	0.1
Arthur St (n) ⁺	2,647	738	28	60	60	100	-2,587	-678	-98	-92	66.2	54.4	-11.8
Eastcheap	7,417	1,178	16	7,477	1,238	17	60	60	1	5	69.0	69.2	0.1
A3 King William St	25,681	5,137	20	28,158	5,724	20	2,477	587	10	11	75.1	75.5	0.4
Cannon St	9,745	1,983	20	12,206	2,554	21	2,461	571	25	29	70.9	72.0	1.1
A1213 Gracechurch St	17,144	2,811	16	17,204	2,871	17	60	60	0	2	72.7	72.8	0.1
Cannon St (w)	9,716	2,007	21	12,365	2,594	21	2,649	587	27	29	70.9	72.0	1.1
Cannon St (e)	9,821	2,012	20	12,282	2,583	21	2,461	571	25	28	71.0	72.0	1.0
Cannon St west	9,891	2,002	20	12,684	2,561	20	2,793	559	28	28	70.9	72.0	1.1
Cannon St east	10,139	2,021	20	12,932	2,580	20	2,793	559	28	28	71.0	72.1	1.1
Cannon St south	10,852	2,059	19	13,645	2,618	19	2,793	559	26	27	71.2	72.2	1.0
Queen Victoria St (west 1)	15,000	1,387	9	17,793	1,946	11	2,793	559	19	40	70.8	71.9	1.1
Queen Victoria St (west 2)	19,486	1,611	8	22,279	2,170	10	2,793	559	14	35	71.7	72.6	0.9
Queen Victoria St (e)	19,984	1,689	8	22,777	2,248	10	2,793	559	14	33	71.8	72.7	0.9
Castle Baynard St / slip to A3211	2,227	342	15	4,644	869	19	2,417	527	109	154	63.3~	67.4	4.1
A3211 (e)	38773	4783	12	40,881	5,284	13	2108	501	5	10	75.5	75.9	0.3

Link	Baseline			During Construction (DC)			Difference		Percentage Change		Baseline	DC	Change
	18h AAWT	HDVs	% HDV	18h AAWT	HDVs	% HDV	18h AAWT	HDVs	18h AAWT	HDVs	BNL* (dB)	BNL* (dB)	dB
A3211 (w)	38,933	4,809	12	41,060	5,329	13	2,127	520	5	11	75.6	75.9	0.4
A3211 (e)	45,467	6,831	15	47,335	7,153	15	1,868	322	4	5	76.7	76.9	0.2
Queen St Place	9,793	2,302	24	9,553	2,122	22	-240	-180	-2	-8	71.4	71.1	-0.3
Southwark Bridge Rd (n)	10,646	2,379	22	10,473	2,206	21	-173	-173	-2	-7	71.6	71.3	-0.2
Southwark St (e)	13,060	1,468	11	13,233	1,641	12	173	173	1	12	70.6	70.9	0.3
Southwark St	13,313	1,540	12	13,486	1,713	13	173	173	1	11	70.7	71.0	0.3
Borough High St (north 1)	24,252	4,111	17	24,425	4,284	18	173	173	1	4	74.3	74.5	0.1
Borough High St (north 2)	27,860	5,370	19	28,033	5,543	20	173	173	1	3	75.3	75.4	0.1
Borough High St (s)	22,656	4,642	20	22,829	4,815	21	173	173	1	4	74.6	74.7	0.1
A3211 L Thames St	41,847	6,628	16	41,907	6,688	16	60	60	0	1	76.5	76.5	0.0
A3211 U Thames St	43,999	6,938	16	44,059	6,998	16	60	60	0	1	76.7	76.8	0.0
A100 Byward St	45,365	7,452	16	45,485	7,572	17	120	120	0	2	77.0	77.0	0.0
Great Tower St	5,024	976	19	5,084	1,036	20	60	60	1	6	67.9	68.1	0.2
A3211 L Thames St	40,339	6,477	16	40,399	6,537	16	60	60	0	1	76.4	76.4	0.0
A1210 Mansell St (n)	18,176	2,196	12	18,216	2,236	12	40	40	0	2	72.2	72.3	0.0
A100 Tower Hill	41,319	7,075	17	41,439	7,195	17	120	120	0	2	76.7	76.7	0.1
Prescot St	12,573	1,210	10	12,613	1,250	10	40	40	0	3	70.1	70.2	0.1
A100 Tower Hill	43,471	7,203	17	43,511	7,243	17	40	40	0	1	76.8	76.8	0.0
A1203 E Smithfield	47,337	7,576	16	47,377	7,616	16	40	40	0	1	77.1	77.1	0.0
A11 Whitechapel Rd	26,058	4,660	18	26,098	4,700	18	40	40	0	1	74.8	74.8	0.0
A1210 Mansell St (n)	15,500	1,864	12	15,540	1,904	12	40	40	0	2	71.5	71.6	0.1
A11 Whitechapel Rd (east 1)	35,232	5,785	16	35,312	5,865	17	80	80	0	1	75.9	75.9	0.0

Link	Baseline			During Construction (DC)			Difference		Percentage Change		Baseline	DC	Change
	18h AAWT	HDVs	% HDV	18h AAWT	HDVs	% HDV	18h AAWT	HDVs	18h AAWT	HDVs	BNL* (dB)	BNL* (dB)	dB
A11 Whitechapel Rd (west 1)	25,573	4,808	19	25,613	4,848	19	40	40	0	1	74.9	74.9	0.0
Leman St	10,624	1,086	10	10,664	1,126	11	40	40	0	4	69.5	69.6	0.1
A11 Whitechapel Rd (east 2)	19,838	3,036	15	19,878	3,076	15	40	40	0	1	73.2	73.2	0.0
A13 Commercial Rd	16,433	2,600	16	16,473	2,640	16	40	40	0	2	72.5	72.5	0.0
A11 Whitechapel Rd (west 2)	36,207	5,630	16	36,287	5,710	16	80	80	0	1	75.8	75.9	0.0
A201 Blackfriars Road (N)	32,729	3,289	10	32,729	3,289	10	0	0	0	0	74.3	74.3	0.0

*Basic Noise Level - the predicted noise level at an arbitrary reference distance, based only on flow and percentage HDV.

~CRTN Low flow correction applied as 18h flows between 1000 and 4000.

+ 18h flows noted to below 1000/day, therefore outside the scope of CRTN. NAC method used as alternative (see Table A9.5.2)

Table A9.6.2: Baseline and 'During Construction' 16h AAWT flows, NAC Method

Link	Baseline		During Construction		Baseline	During Construction	Change
	16h AAWT	% HDV	16h AAWT	% HDV	L _{Aeq,16h} (dB)	L _{Aeq,16h} (dB)	dB
Arthur St (s)	2814	25	60	100	62.5	49.7	-12.8
Arthur St (n)	2401	28	60	100	62.1	49.7	-12.4

Table A9.6.3: Hourly Baseline Flows between 20:00 and 08:00

Hour Commencing	20:00		21:00		22:00		23:00		00:00		01:00		02:00		03:00		04:00		05:00		06:00		07:00	
	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV
Arthur St	153	25	148	25	143	25	127	25	86	26	60	25	46	24	47	26	64	25	108	25	163	25	209	25
A3211 U Thames St (e)	2,186	16	2,117	16	2,045	16	1,815	16	1,233	16	854	16	656	16	673	16	917	16	1,552	16	2,330	16	2,997	16
A3211 U Thames St (w)	2,183	15	2,114	15	2,042	15	1,812	15	1,231	15	853	15	655	15	672	15	916	15	1,550	15	2,326	15	2,993	15
King William St (n)	1,290	19	1,249	19	1,207	19	1,071	19	728	19	504	19	387	19	397	19	541	19	916	19	1,375	19	1,769	19
King William St (s)	1,401	19	1,357	19	1,310	19	1,163	19	790	19	547	19	420	19	431	19	588	19	995	19	1,493	19	1,921	19
Arthur St	130	28	126	28	122	28	108	28	73	27	51	27	39	28	40	28	55	27	92	28	139	28	178	28
Eastcheap	365	16	353	16	341	16	303	16	206	16	142	16	109	16	112	16	153	16	259	16	389	16	500	16
A3 King William St	1,262	20	1,223	20	1,181	20	1,048	20	712	20	493	20	379	20	389	20	530	20	896	20	1,345	20	1,731	20
A3211 L Thames St	2,057	16	1,993	16	1,924	16	1,708	16	1,160	16	804	16	617	16	634	16	863	16	1,461	16	2,192	16	2,821	16
A3211 U Thames St	2,163	16	2,095	16	2,023	16	1,796	16	1,220	16	845	16	649	16	666	16	907	16	1,536	16	2,305	16	2,966	16
A100 Byward St	2,230	16	2,160	16	2,086	16	1,851	16	1,258	16	871	16	669	16	687	16	936	16	1,583	16	2,377	16	3,058	16
Great Tower St	247	19	239	19	231	19	205	20	139	19	96	20	74	19	76	20	104	19	175	19	263	19	339	19
A3211 L Thames St	1,983	16	1,921	16	1,855	16	1,646	16	1,118	16	775	16	595	16	611	16	832	16	1,408	16	2,113	16	2,719	16
A1210 Mansell St (N)	894	12	865	12	836	12	742	12	504	12	349	12	268	12	275	12	375	12	634	12	952	12	1,225	12
A100 Tower Hill	2,031	17	1,967	17	1,900	17	1,686	17	1,146	17	793	17	609	17	626	17	852	17	1,442	17	2,165	17	2,785	17
Prescot St	618	10	599	10	578	10	513	10	349	10	241	10	185	10	190	9	259	10	439	10	659	10	847	10
A1203 E. Smithfield	2,327	16	2,254	16	2,177	16	1,932	16	1,312	16	909	16	698	16	717	16	976	16	1,652	16	2,480	16	3,191	16
A11 Whitechapel Rd	1,281	18	1,241	18	1,198	18	1,063	18	722	18	500	18	384	18	394	18	537	18	909	18	1,365	18	1,756	18
A1210 Mansell St (N)	762	12	738	12	713	12	633	12	430	12	298	12	229	12	235	12	320	12	541	12	812	12	1,045	12
A11 Whitechapel Rd (E)	1,732	16	1,678	16	1,620	16	1,438	16	977	16	676	16	519	16	533	17	727	16	1,230	16	1,846	16	2,375	16
A11 Whitechapel Rd (W)	1,257	19	1,218	19	1,176	19	1,044	19	709	19	491	19	377	19	387	19	527	19	893	19	1,340	19	1,724	19

Hour Commencing	20:00		21:00		22:00		23:00		00:00		01:00		02:00		03:00		04:00		05:00		06:00		07:00	
	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV
Leman St	522	10	506	10	489	10	434	10	295	10	204	10	157	10	161	10	219	10	371	10	557	10	716	10
A11 Whitechapel Rd(E)	975	15	945	15	912	15	810	15	550	15	381	15	292	15	300	15	409	15	692	15	1,039	15	1,337	15
A13 Commercial Rd	808	16	782	16	756	16	671	16	456	16	316	16	242	16	249	16	339	16	574	16	861	16	1,108	16
A11 Whitechapel Rd (W)	1,780	16	1,724	16	1,665	16	1,478	16	1,004	16	695	16	534	16	548	16	747	16	1,264	16	1,897	16	2,440	16

Table A9.6.4: Hourly flows between 20:00 and 08:00, assuming ‘muck-away’ vehicles outside daytime hours during tunnelling / excavation activities

Hour Commencing	20:00		21:00		22:00		23:00		00:00		01:00		02:00		03:00		04:00		05:00		06:00		07:00	
	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV
Arthur St	1	100	1	100	1	100	1	100	1	100	1	100	1	100	1	100	1	100	1	100	1	100	1	100
A3211 U Thames St (e)	2,187	16	2,118	16	2,046	16	1,816	16	1,234	16	855	16	657	16	674	16	918	16	1,553	16	2,331	16	2,998	16
A3211 U Thames St (w)	2,161	15	2,093	15	2,021	15	1,794	15	1,218	15	844	15	648	15	665	15	907	15	1,534	15	2,302	15	2,963	15
King William St (n)	1,422	20	1,378	20	1,332	20	1,183	20	808	21	563	21	435	21	446	21	604	21	1,014	20	1,515	20	1,946	20
King William St (s)	1,532	20	1,485	20	1,434	20	1,274	20	869	20	605	21	467	21	479	21	650	21	1,092	20	1,632	20	2,097	20
Arthur St	1	100	1	100	1	100	1	100	1	100	1	100	1	100	1	100	1	100	1	100	1	100	1	100
Eastcheap	366	16	354	16	342	16	304	16	207	16	143	17	110	16	113	17	154	16	260	16	390	16	501	16
A3 King William St	1,394	21	1,352	21	1,306	21	1,160	21	792	21	552	22	427	23	438	22	593	22	994	21	1,485	21	1,908	21
A3211 L Thames St	2,058	16	1,994	16	1,925	16	1,709	16	1,161	16	805	16	618	16	635	16	864	16	1,462	16	2,193	16	2,822	16
A3211 U Thames St	2,164	16	2,096	16	2,024	16	1,797	16	1,221	16	846	16	650	16	667	16	908	16	1,537	16	2,306	16	2,967	16
A100 Byward St	2,232	17	2,162	17	2,088	17	1,853	17	1,260	17	873	17	671	17	689	17	938	17	1,585	17	2,379	16	3,060	16
Great Tower St	248	20	240	20	232	20	206	20	140	20	97	21	75	20	77	21	105	20	176	20	264	20	340	20
A3211 L Thames St	1,984	16	1,922	16	1,856	16	1,647	16	1,119	16	776	16	596	16	612	16	833	16	1,409	16	2,114	16	2,720	16
A1210 Mansell St (N)	895	12	866	12	837	12	743	12	505	12	350	12	269	12	276	12	376	12	635	12	953	12	1,226	12
A100 Tower Hill	2,033	17	1,969	17	1,902	17	1,688	17	1,148	17	795	17	611	17	628	17	854	17	1,444	17	2,167	17	2,787	17
Prescot St	619	10	600	10	579	10	514	10	350	10	242	10	186	10	191	10	260	10	440	10	660	10	848	10
A1203 E. Smithfield	2,328	16	2,255	16	2,178	16	1,933	16	1,313	16	910	16	699	16	718	16	977	16	1,653	16	2,481	16	3,192	16
A11 Whitechapel Rd	1,282	18	1,242	18	1,199	18	1,064	18	723	18	501	18	385	18	395	18	538	18	910	18	1,366	18	1,757	18
A1210 Mansell St (N)	763	12	739	12	714	12	634	12	431	12	299	12	230	12	236	12	321	12	542	12	813	12	1,046	12
A11 Whitechapel Rd (E)	1,734	16	1,680	16	1,622	17	1,440	17	979	17	678	17	521	17	535	17	729	17	1,232	17	1,848	16	2,377	16

Hour Commencing	20:00		21:00		22:00		23:00		00:00		01:00		02:00		03:00		04:00		05:00		06:00		07:00	
	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV	Total	%HDV
A11 Whitechapel Rd (W)	1,258	19	1,219	19	1,177	19	1,045	19	710	19	492	19	378	19	388	19	528	19	894	19	1,341	19	1,725	19
Leman St	523	10	507	10	490	10	435	10	296	10	205	11	158	11	162	10	220	10	372	10	558	10	717	10
A11 Whitechapel Rd(E)	976	15	946	15	913	15	811	15	551	15	382	15	293	16	301	16	410	16	693	15	1,040	15	1,338	15
A13 Commercial Rd	809	16	783	16	757	16	672	16	457	16	317	16	243	16	250	16	340	16	575	16	862	16	1,109	16
A11 Whitechapel Rd (W)	1,782	16	1,726	16	1,667	16	1,480	16	1,006	16	697	16	536	16	550	16	749	16	1,266	16	1,899	16	2,442	16

Table A9.6.5: Calculated Hourly Basic Noise Level, Baseline (Base) and with Muck-Away (MA) Vehicles

Hour Commencing	20:00		21:00		22:00		23:00		00:00		01:00		02:00		03:00		04:00		05:00		06:00		07:00	
	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA
Arthur St†	66.6	49.7	66.4	49.7	66.3	49.7	65.8	49.7	64.2	49.7	62.5	49.7	61.2	49.7	61.6	49.7	62.8	49.7	65.1	49.7	66.9	49.7	67.9	49.7
A3211 U Thames St (e)	76.8	76.8	76.7	76.7	76.5	76.5	76.0	76.0	74.3	74.3	72.7	72.8	71.6	71.6	71.7	71.7	73.1	73.1	75.3	75.3	77.1	77.1	78.2	78.2
A3211 U Thames St (w)	76.6	76.6	76.5	76.5	76.4	76.3	75.8	75.8	74.2	74.1	72.6	72.5	71.4	71.4	71.5	71.5	72.9	72.8	75.2	75.1	76.9	76.9	78.0	78.0
King William St (n)	75.0	75.6	74.9	75.5	74.7	75.3	74.2	74.8	72.5	73.3	70.9	71.7	69.8	70.6	69.9	70.7	71.2	72.0	73.5	74.1	75.3	75.9	76.4	77.0
King William St (s)	75.4	75.9	75.2	75.8	75.1	75.6	74.6	75.1	72.9	73.5	71.3	72.0	70.1	70.9	70.3	71.0	71.6	72.3	73.9	74.4	75.7	76.2	76.7	77.3
Arthur St†	66.2	49.7	66.1	49.7	66.0	49.7	65.4	49.7	63.6	49.7	62.1	49.7	61.0	49.7	61.1	49.7	62.4	49.7	64.7	49.7	66.5	49.7	67.6	49.7
Eastcheap	69.1	69.1	68.9	68.9	68.8	68.8	68.2	68.3	66.6	66.6	64.8*	65.0*	63.4*	63.5*	63.5*	63.8*	65.2*	65.2*	67.6	67.6	69.3	69.3	70.4	70.4
A3 King William St	75.1	75.6	74.9	75.5	74.8	75.4	74.3	74.9	72.6	73.2	71.0	71.8	69.8	70.8	70.0	70.8	71.3	72.1	73.6	74.2	75.3	75.9	76.4	77.0
A3211 L Thames St	76.6	76.6	76.4	76.4	76.3	76.3	75.8	75.8	74.1	74.1	72.5	72.5	71.3	71.3	71.5	71.5	72.8	72.8	75.1	75.1	76.8	76.8	77.9	77.9
A3211 U Thames St	76.8	76.8	76.6	76.6	76.5	76.5	76.0	76.0	74.3	74.3	72.7	72.7	71.6	71.6	71.7	71.7	73.0	73.0	75.3	75.3	77.1	77.1	78.2	78.2
A100 Byward St	76.9	77.1	76.8	76.9	76.6	76.8	76.1	76.3	74.4	74.6	72.8	73.0	71.7	71.9	71.8	72.0	73.1	73.3	75.4	75.6	77.2	77.2	78.3	78.3
Great Tower St	67.8	68.0	67.7	67.9	67.5	67.7	67.2	67.2	65.2*	65.4*	63.3*	63.5*	61.5*	61.8*	61.9*	62.1*	63.6*	63.8*	66.3*	66.5*	68.1	68.3	69.2	69.4
A3211 L Thames St	76.4	76.4	76.3	76.3	76.1	76.1	75.6	75.6	73.9	73.9	72.3	72.3	71.2	71.2	71.3	71.3	72.6	72.6	74.9	74.9	76.7	76.7	77.8	77.8
A1210 Mansell St (N)	72.2	72.2	72.1	72.1	71.9	71.9	71.4	71.4	69.7	69.7	68.1	68.1	67.0	67.0	67.1	67.1	68.4	68.4	70.7	70.7	72.5	72.5	73.6	73.6
A100 Tower Hill	76.7	76.7	76.5	76.5	76.4	76.4	75.9	75.9	74.2	74.2	72.6	72.6	71.4	71.5	71.6	71.6	72.9	72.9	75.2	75.2	77.0	77.0	78.0	78.0
Prescot St	70.2	70.2	70.0	70.1	69.9	69.9	69.4	69.4	67.7	67.7	66.1	66.1	65.0*	65.0*	64.8*	65.1*	66.4	66.4	68.7	68.7	70.5	70.5	71.5	71.6
A1203 E. Smithfield	77.1	77.1	77.0	77.0	76.8	76.8	76.3	76.3	74.6	74.6	73.0	73.0	71.9	71.9	72.0	72.0	73.3	73.3	75.6	75.6	77.4	77.4	78.5	78.5
A11 Whitechapel Rd	74.8	74.8	74.7	74.7	74.5	74.5	74.0	74.0	72.3	72.3	70.7	70.8	69.6	69.6	69.7	69.7	71.1	71.1	73.3	73.3	75.1	75.1	76.2	76.2
A1210 Mansell St (N)	71.5	71.5	71.4	71.4	71.2	71.2	70.7	70.7	69.0	69.0	67.4	67.4	66.3	66.3	66.4	66.4	67.7	67.8	70.0	70.0	71.8	71.8	72.9	72.9
A11 Whitechapel Rd (E)	75.8	75.8	75.7	75.7	75.5	75.7	75.0	75.2	73.3	73.5	71.7	71.9	70.6	70.8	70.9	70.9	72.0	72.2	74.3	74.5	76.1	76.1	77.2	77.2
A11 Whitechapel Rd (W)	74.9	74.9	74.8	74.8	74.6	74.6	74.1	74.1	72.4	72.4	70.8	70.8	69.7	69.7	69.8	69.8	71.1	71.1	73.4	73.4	75.2	75.2	76.3	76.3

Hour Commencing	20:00		21:00		22:00		23:00		00:00		01:00		02:00		03:00		04:00		05:00		06:00		07:00	
Basic Noise Level (dB)	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA	Base	MA
Leman St	69.4	69.5	69.3	69.3	69.2	69.2	68.6	68.7	67.0	67.0	65.4	65.6	64.2*	64.4*	64.3*	64.3*	65.7	65.7	68.0	68.0	69.7	69.7	70.8	70.8
A11 Whitechapel Rd(E)	73.1	73.2	73.0	73.0	72.9	72.9	72.3	72.3	70.7	70.7	69.1	69.1	67.9	68.1	68.0	68.2	69.4	69.6	71.7	71.7	73.4	73.4	74.5	74.5
A13 Commercial Rd	72.5	72.5	72.4	72.4	72.2	72.2	71.7	71.7	70.0	70.0	68.4	68.4	67.3	67.3	67.4	67.4	68.7	68.7	71.0	71.0	72.8	72.8	73.9	73.9
A11 Whitechapel Rd (W)	75.9	75.9	75.8	75.8	75.6	75.7	75.1	75.1	73.4	73.5	71.9	71.9	70.7	70.7	70.8	70.8	72.2	72.2	74.4	74.5	76.2	76.2	77.3	77.3

*CRTN low flow correction applied due to flows between 50 and 100 vehicles/hr.

†Flows lower than that at which low flow correction is applicable.

Table A9.6.6: Calculated Change in Hourly Basic Noise Level

Hour Commencing	20:00	21:00	22:00	23:00	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00
Noise Level Difference (dB)	With Muck-Away Vehicles - Baseline												
Arthur St ⁺	-16.8	-16.7	-16.5	-16.0	-14.5	-12.8	-11.5	-11.8	-13.1	-15.3	-17.1	-18.2	-16.8
A3211 U Thames St (e)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A3211 U Thames St (w)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
King William St (n)	0.6	0.6	0.6	0.6	0.7	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6
King William St (s)	0.5	0.5	0.5	0.5	0.6	0.7	0.8	0.8	0.7	0.6	0.5	0.5	0.5
Arthur St ⁺	-16.5	-16.4	-16.2	-15.7	-13.9	-12.3	-11.3	-11.4	-12.6	-15.0	-16.8	-17.9	-16.5
Eastcheap	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.3	0.0	0.0	0.0	0.0	0.0
A3 King William St	0.6	0.6	0.6	0.6	0.6	0.8	0.9	0.8	0.8	0.6	0.6	0.6	0.6
A3211 L Thames St	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A3211 U Thames St	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A100 Byward St	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.2
Great Tower St	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
A3211 L Thames St	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A1210 Mansell St (N)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A100 Tower Hill	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prescot St	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
A1203 E. Smithfield	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A11 Whitechapel Rd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A1210 Mansell St (N)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A11 Whitechapel Rd (E)	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2	0.0	0.0	0.0
A11 Whitechapel Rd (W)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Hour Commencing	20:00	21:00	22:00	23:00	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00
Noise Level Difference (dB)	With Muck-Away Vehicles - Baseline												
Leman St	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
A11 Whitechapel Rd(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0
A13 Commercial Rd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
A11 Whitechapel Rd (W)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

⁺Although noise levels as a result of road traffic are expected to reduce, these predictions should be viewed with caution as the very low flows mean that their prediction is outside the scope of CRTN.

Table A9.6.7: Road Traffic Flows Associated with General Utility Works

Link	Baseline		Scenario 1		Scenario 2		Scenario 3		Scenario 4		Scenario 5	
	All	HDV%	All	HDV%	All	HDV%	All	HDV%	All	HDV%	All	HDV%
Gracechurch Street	17,144	16	17,168	17	21,411	17	21,411	17	21,411	17	21,411	17
Eastcheap	7,418	20	7,512	17	7,512	17	7,512	17	7,512	17	7,512	17
King William Street south	25,680	20	25,680	20	25,680	20	25,680	20	25,680	20	25,680	20
Cannon Street	9,744	24	5,799	21	9,815	21	9,815	21	9,815	21	9,815	21
King William Street north	8,344	16	12,368	23	8,352	24	8,352	24	8,352	24	8,352	24
Cannon Street west	11,077	28	15,164	27	11,148	29	11,148	29	11,148	29	11,148	29
Queen Victoria Street east	15,147	16	19,233	18	15,217	17	15,217	17	15,217	17	15,217	17
Cannon Street east	10,852	19	10,852	19	10,852	19	10,852	19	10,852	19	10,852	19
Garlick Hill	152*	6	152*	6	152*	6	152*	6	152*	6	152*	6
Queen Victoria Street west	15,000	9	19,087	12	15,071	10	15,071	10	15,071	10	15,071	10
Prince's Street - NORTHWEST ARM	8,443	16	8,443	16	8,443	16	8,443	16	8,443	16	8,443	16
Threadneedle Street - NORTHEAST ARM	5,994	24	6,103	25	10,347	22	10,347	22	10,347	22	10,347	22
Cornhill - EAST ARM	7,256	18	7,256	18	7,256	18	7,256	18	7,256	18	7,256	18
King William Street - SOUTHEAST ARM	11,136	19	15,161	20	6,902	20	6,902	20	6,902	20	6,902	20
Mansion House Place - SOUTH ARM	26*	10	41*	44	41*	44	41*	44	41*	44	41*	44
Mansion House Street - WEST ARM	17,248	20	21,350	21	17,334	20	17,334	20	17,334	20	17,334	20
Threadneedle St	5,983	24	6,101	25	10,344	22	10,344	22	10,344	22	10,344	22
Cornhill	7,175	16	7,175	16	7,175	16	7,175	16	7,175	16	7,175	16
Bishopsgate (N)	12,259	16	12,292	16	16,535	16	16,535	16	16,535	16	16,535	16
Leadenhall St	8,596	15	8,596	15	8,596	15	8,596	15	8,596	15	8,596	15

Link	Baseline		Scenario 1		Scenario 2		Scenario 3		Scenario 4		Scenario 5	
	All	HDV%	All	HDV%	All	HDV%	All	HDV%	All	HDV%	All	HDV%
Gracechurch St	11,402	16	11,434	17	15,678	17	15,678	17	15,678	17	15,678	17
Lombard St	1,793	4	1,793	4	1,793	4	1,793	4	1,793	4	1,793	4
Gracechurch St (N)	9,895	17	9,927	18	14,171	18	14,171	18	14,171	18	14,171	18
Fenchurch St	9,597	11	9,597	11	9,597	11	9,597	11	9,597	11	9,597	11
Gracechurch St (S)	15,543	16	15,575	16	19,819	17	19,819	17	19,819	17	19,819	17

*road traffic flows below the scope of CRTN

Table A9.6.8. Predicted Basic Noise Levels (BNL) Associated with General Utility Works

Link	Baseline	Scenario 1		Scenario 2		Scenario 3		Scenario 4		Scenario 5	
	BNL	BNL	Change	BNL	Change	BNL	Change	BNL	Change	BNL	Change
Gracechurch Street	72.7	72.8	0.2	73.8	1.1	73.8	1.1	73.8	1.1	73.8	1.1
Eastcheap	69.7	69.3	-0.4	69.3	-0.4	69.3	-0.4	69.3	-0.4	69.3	-0.4
King William Street south	75.1	75.1	0.0	75.1	0.0	75.1	0.0	75.1	0.0	75.1	0.0
Cannon Street	71.4	68.7	-2.7	71.0	-0.4	71.0	-0.4	71.0	-0.4	71.0	-0.4
King William Street north	69.5	72.3	2.8	70.7	1.2	70.7	1.2	70.7	1.2	70.7	1.2
Cannon Street north	72.4	73.7	1.2	72.6	0.1	72.6	0.1	72.6	0.1	72.6	0.1
Queen Victoria Street east	72.1	73.5	1.4	72.3	0.2	72.3	0.2	72.3	0.2	72.3	0.2
Cannon Street south	71.2	71.2	0.0	71.2	0.0	71.2	0.0	71.2	0.0	71.2	0.0
Garlick Hill	46.1*	46.1*	0.0	46.1*	0.0	46.1*	0.0	46.1*	0.0	46.1*	0.0
Queen Victoria Street west	70.7	72.4	1.7	71.0	0.2	71.0	0.2	71.0	0.2	71.0	0.2
Prince's Street - NORTHWEST ARM	69.6	69.6	0.0	69.6	0.0	69.6	0.0	69.6	0.0	69.6	0.0
Threadneedle Street - NORTHEAST ARM	69.3	69.5	0.2	71.4	2.1	71.4	2.1	71.4	2.1	71.4	2.1
Cornhill - EAST ARM	69.3	69.3	0.0	69.3	0.0	69.3	0.0	69.3	0.0	69.3	0.0
King William Street - SOUTHEAST ARM	71.3	72.8	1.5	69.4	-1.9	69.4	-1.9	69.4	-1.9	69.4	-1.9
Mansion House Place - SOUTH ARM	38.8*	43.7*	4.9	43.7*	4.9	43.7*	4.9	43.7*	4.9	43.7*	4.9
Mansion House Street - WEST ARM	73.3	74.4	1.1	73.4	0.0	73.4	0.0	73.4	0.0	73.4	0.0
Threadneedle St	69.3	69.5	0.2	71.4	2.1	71.4	2.1	71.4	2.1	71.4	2.1
Cornhill	68.9	68.9	0.0	68.9	0.0	68.9	0.0	68.9	0.0	68.9	0.0
Bishopsgate (N)	71.2	71.2	0.0	72.5	1.3	72.5	1.3	72.5	1.3	72.5	1.3
Leadenhall St	69.5	69.5	0.0	69.5	0.0	69.5	0.0	69.5	0.0	69.5	0.0

Link	Baseline	Scenario 1		Scenario 2		Scenario 3		Scenario 4		Scenario 5	
	BNL	BNL	Change	BNL	Change	BNL	Change	BNL	Change	BNL	Change
Gracechurch St	70.9	71.1	0.2	72.5	1.5	72.5	1.5	72.5	1.5	72.5	1.5
Lombard St	60.1	60.1	0.0	60.1	0.0	60.1	0.0	60.1	0.0	60.1	0.0
Gracechurch St (N)	70.5	70.6	0.2	72.2	1.7	72.2	1.7	72.2	1.7	72.2	1.7
Fenchurch St	69.2	69.2	0.0	69.2	0.0	69.2	0.0	69.2	0.0	69.2	0.0
Gracechurch St (S)	72.2	72.3	0.0	73.5	1.2	73.5	1.2	73.5	1.2	73.5	1.2

* $L_{Aeq,16h}$ calculated using NAC method and 16hr flows