

# Appendix 13.11

## BNL CALCULATIONS – WIDER ROAD NETWORK





In the following tables the following abbreviations have been used:

- %hdv = the percentage of heavy duty vehicles
- Kph = kilometres per hour
- BNL = Basic Noise Level
- ST(ds) = short-term (do-something)
- LT(ds) = long-term (do-something)
- LT(dm) = long-term (do-minimum)
- Mag of imp = magnitude of impact
- Mod Ben = moderate benefit
- Mod Adv = moderate adverse

**Table A13-18 - Link 10035-12087 - Keyston**

Scenario	Flow	%hdv	kph	BNL	ST(ds)	LT(ds)	LT(dm)
DM2_2021	1,523	13.8	27.4	59.4			
DM2_2036	1,613	13.9	27.0	59.8			
DS2_2021	1,328	4.9	27.1	55.8			
DS2_2036	1,605	13.5	27.0	59.7			
dB change					-3.6	0.3	0.4
Mag of imp					Mod Ben		

**Table A13-19 - Link 1217-75033 - Chapel Brampton**

Scenario	Flow	%hdv	kph	BNL	ST(ds)	LT(ds)	LT(dm)
DM2_2021	6,339	1.4	43.9	63.3			
DM2_2036	7,487	2.0	40.6	63.9			
DS2_2021	2,631	1.4	46.7	59.5			
DS2_2036	4,374	1.2	41.6	61.3			
dB change					-3.8	-2.0	0.6
Mag of imp					Mod Ben		

**Table A13-20 - Link 1219-75033 - Brampton Lane**

Scenario	Flow	%hdv	kph	BNL	ST(ds)	LT(ds)	LT(dm)
DM2_2021	6,029	1.5	45.9	63.3			
DM2_2036	7,151	2.1	45.0	64.2			
DS2_2021	2,319	1.5	47.7	59.0			
DS2_2036	4,033	1.3	44.7	61.3			
dB change					-4.3	-2.0	0.9
Mag of imp					Mod Ben		

**Table A13-21 - Link 12259-12289 - Raunds**

Scenario	Flow	%hdv	kph	BNL	ST(ds)	LT(ds)	LT(dm)
DM2_2021	1,165	18.1	43.7	58.5			
DM2_2036	1,164	19.5	43.6	58.7			
DS2_2021	1,021	6.5	44.3	55.1			
DS2_2036	1,145	19.2	43.6	58.5			
dB change					-3.4	0.0	0.2
Mag of imp					Mod Ben		

**Table A13-22 - Link 12286-12289 - Raunds**

Scenario	Flow	%hdv	kph	BNL	ST(ds)	LT(ds)	LT(dm)
DM2_2021	1,165	18.1	45.7	58.6			
DM2_2036	1,164	19.5	45.7	58.8			
DS2_2021	1,021	6.5	45.8	55.2			
DS2_2036	1,145	19.2	45.7	58.6			
dB change					-3.4	0.0	0.2
Mag of imp					Mod Ben		

**Table A13-23 - Link 21145-2144 - Church Brampton**

Scenario	Flow	%hdv	kph	BNL	ST(ds)	LT(ds)	LT(dm)
DM2_2021	11,818	1.7	53.1	67.0			
DM2_2036	16,192	1.5	46.4	67.6			
DS2_2021	3,192	4.0	63.0	63.0			
DS2_2036	6,595	2.6	59.9	65.5			
dB change					-4.1	-1.6	0.6
Mag of imp					Mod Ben		

**Table A13-24 - Link 21145-3145 - Church Brampton**

Scenario	Flow	%hdv	kph	BNL	ST(ds)	LT(ds)	LT(dm)
DM2_2021	11,818	1.7	39.6	65.7			
DM2_2036	16,192	1.5	35.5	66.7			
DS2_2021	3,192	4.0	44.3	61.2			
DS2_2036	6,595	2.6	42.4	63.8			
dB change					-4.5	-1.9	0.9
Mag of imp					Mod Ben		

**Table A13-25 - Link 2217-3145 - Chapel Brampton**

Scenario	Flow	%hdv	kph	BNL	ST(ds)	LT(ds)	LT(dm)
DM2_2021	6,649	1.5	61.1	65.3			
DM2_2036	8,530	1.8	59.9	66.4			
DS2_2021	2,564	0.8	63.6	61.0			
DS2_2036	5,443	1.0	61.5	64.3			
dB change					-4.3	-1.0	1.1
Mag of imp					Mod Ben		

**Table A13-26 - Link 2217-4217 - Chapel Brampton**

Scenario	Flow	%hdv	kph	BNL	ST(ds)	LT(ds)	LT(dm)
DM2_2021	3,571	1.8	31.0	60.0			
DM2_2036	4,268	2.1	27.6	60.8			
DS2_2021	1,418	1.2	39.5	55.1			
DS2_2036	2,366	0.3	36.3	57.4			
dB change					-4.9	-2.5	0.8
Mag of imp					Mod Ben		

**Table A13-27 - Link 3145-4236 - Church Brampton, Sandy Lane**

Scenario	Flow	%hdv	kph	BNL	ST(ds)	LT(ds)	LT(dm)
DM2_2021	8,082	1.0	42.0	64.0			
DM2_2036	10,976	0.7	38.2	64.8			
DS2_2021	3,030	2.6	47.1	60.7			
DS2_2036	4,119	2.2	44.1	61.7			
dB change					-3.2	-2.2	0.8
Mag of imp					Mod Ben		

**Table A13-28 - Link 2236-36033 - Brampton Lane**

Scenario	Flow	%hdv	kph	BNL	ST(ds)	LT(ds)	LT(dm)
DM2_2021	6,507	2.3	41.6	63.6			
DM2_2036	10,540	1.9	41.6	65.5			
DS2_2021	17,118	2.2	40.9	67.7			
DS2_2036	25,266	1.5	36.2	68.6			
dB change					4.1	5.1	1.9
Mag of imp					Mod Adv	Mod Adv	

**Table A13-29 - Link 25124-4027 - Obelisk Rise**

Scenario	Flow	%hdv	kph	BNL	ST(ds)	LT(ds)	LT(dm)
DM2_2021	62	99.2	40.0	49.3			
DM2_2036	61	98.9	40.0	49.2			
DS2_2021	63	99.3	40.0	49.3			
DS2_2036	1,794	3.4	40.0	56.9			
dB change					0.0	7.6	-0.1
Mag of imp						Mod Adv	

**Table A13-30 - Link 3144-9930 - Whites Lane**

Scenario	Flow	%hdv	kph	BNL	ST(ds)	LT(ds)	LT(dm)
DM2_2021	1,132	0.1	43.8	53.5			
DM2_2036	2,231	0.7	43.1	58.0			
DS2_2021	1,099	0.1	43.3	53.2			
DS2_2036	2,774	0.7	42.7	59.1			
dB change					-0.3	5.6	4.5
Mag of imp						Mod Adv	

**Table A13-31 - Link 7021-9931 - High Street**

Scenario	Flow	%hdv	kph	BNL	ST(ds)	LT(ds)	LT(dm)
DM2_2021	1,701	0.2	20.0	54.7			
DM2_2036	2,056	0.7	20.0	56.3			
DS2_2021	2,348	2.1	20.0	58.2			
DS2_2036	2,860	1.0	20.0	58.4			
dB change					3.5	3.7	1.6
Mag of imp					Mod Adv		