

APPENDIX 11.1

ADMS MODEL INPUTS

AIR QUALITY APPENDICES

Appendix 11.1 – ADMS Model Inputs

Traffic data was provided by Pell Frishmann, the transport consultants for the Development, and was based on 2021 surveyed flows. Following confirmation from Pell Frishmann that 2021 survey flows were very similar to local traffic flows in 2019, these 2021 flows were used for 2019 Model Verification.

Flows were factored to a 2032 baseline (the year when full occupation is expected), from which Development flows were added. Committed development is included in the 2032 baseline.

Traffic flows used in the modelling assessment are included in Table 11.1.1 below.

Table 11.1.1: Traffic Data used in Assessment

Location	2021 Baseline		2032 Baseline		2032 With Development	
	AADT	%HGV	AADT	%HGV	AADT	%HGV
A264 Copthorne Road (Nr A22)	15010	3%	15887	3%	16400	3%
Imberhorne Lane (North of Heathcote)	6822	0%	7770	0%	8822	0%
Imberhorne Lane (South of Heathcote)	1681	2%	2107	2%	2556	2%
Heathcote Drive	3377	1%	3880	1%	4367	1%
A22 (North of Lingfield Road)	21133	3%	22066	3%	22194	3%
Lingfield Road	6945	2%	6945	2%	6958	2%
Moat Road	9429	1%	10523	1%	10529	1%
A22 London Road (Nr McDonalds)	17051	4%	17465	4%	17825	4%
Beeching Way	16850	7%	17057	7%	17237	7%
A22 (between St James Road and Wood St)	14126	1%	14230	1%	14319	1%
Lewes Road (North of Hammerwood Road)	14868	4%	16800	4%	16980	4%
A264 Copthorne Road (West of Crawley Down)	11730	5%	13446	5%	13831	5%
A22 Eastbourne Road (North of Byers Lane)	17645	7%	17757	7%	18167	7%

Further ADMS model inputs are included in Tables 11.1.2 and 11.1.3 below.

Table 11.1.2: ADMS Roads Inputs

Input	Model Verification	Operational Assessment
Dataset	UK EFT v11 (2VC)	UK EFT v11 (2VC)
EFT Emission Year	2019	2019 (for Baseline), 2022 (for Future Scenario)
Road Type	England Urban	England Urban
Site Surface roughness	0.6m	0.6m
Meteorological Data	Charlwood (2019)	Charlwood (2019)
Traffic Data	Project specific traffic data	Project specific traffic data

Table 11.1.3: Modelled Receptors

Receptor		Height	UK Grid Reference	
ID	Road Link		X	Y
R1	A22 Eastbourne Rd	1.5	536321.3	148440.9
R2	A22 Eastbourne Rd	1.5	536380	148550.5
R3	A264 Copthorne Common Rd	1.5	533346.6	139177.3
R4	A264 Copthorne Rd	1.0	536790.6	139695.6
R5	A264 Copthorne Rd	1.5	536613.4	139745.9
R6	A22 London Rd	1.5	537512.9	139477.2
R7	A22 London Rd	1.5	537611.8	139415.8
R8	A22 London Rd	1.5	537673.9	139342.9
R9	A22 London Rd	1.5	538350.4	139017.1
R10	A22 London Rd	1.5	538689.8	138772.9
R11	A22 London Rd	4.5	539041.5	138451.3
R12	A22 London Rd	1.5	539136	138372.7
R13	Heathcote Dr	1.5	538770.5	138465.9
R14	Heathcote Dr	1.5	537757.1	138832.0
R15	Imberhorne Ln	1.5	537757.7	138798.6
R16	Imberhorne Ln	1.5	537696.5	138349.3
R17	Imberhorne Ln	1.5	537611.1	139317.6
R18	Imberhorne Ln	1.5	537596.1	139305.9
R19	Imberhorne Ln	1.5	537667.7	138262.6