

Appendix 11.1:
Traffic Flow Information Used in the Air Quality Assessment

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24hr AADT Flows Provided by Hydrock Group Limited on 22/10/2015

Link	Link Name	Speed Limit (kph)	2015 Base Year		2025 Opening Year No Development (+Committed)		2025 Opening Year Development (+Committed)	
			Total	HGV %	Total	HGV %	Total	HGV %
1	A12 South West	96	42468	5.5	53860	25.1	54807	5.0
2	A12 North East	96	39676	5.4	50523	4.9	50622	4.9
3	Ipswich Road (East of A12 North East)	48	11662	2.9	13867	2.8	14913	2.7
4	Ipswich Road (West of Top Street)	48	11594	2.0	13993	2.0	15038	1.9
5	Top Street North	96	9276	2.1	13064	1.7	13726	1.7
6	Ipswich Road (East of Top Street)	48	14046	2.2	19421	1.8	20412	1.8
7	Ipswich Road (West of Proposed Site Access)	48	14581	1.5	19941	1.3	20933	1.3
8	Ipswich Road (East of Proposed Site Access)	48	14581	1.5	19941	1.3	20230	1.3
9	Site Access (Ipswich Road)	48					1171	1.0
10	Ipswich Road (West of California)	48	13982	2.0	19238	1.7	19527	1.7
11	California	32	473	1.5	597	1.3	597	1.3
12	Ipswich Road (East of California)	32	10702	2.0	14276	1.7	14565	1.7
13	Old Barrack Road	48	3933	3.2	5803	2.5	5803	2.5
14	Ipswich Road (West of Sandy Lane)	32	10571	2.0	13822	1.8	14110	1.7
15	Sandy Lane	48	1588	1.8	1869	1.7	1869	1.7
16	Ipswich Road (East of Sandy Lane)	48	11865	2.0	15309	1.8	15597	1.8
17	Ipswich Road (West of Medical Centre)	48	13829	2.4	17177	2.2	17466	2.2
18	Medical Centre	32	1608	0.9	1972	0.8	1972	0.8
19	Cumberland Street (East of Medical Centre)	48	12464	2.6	15842	2.4	16131	2.4
20	Cherry Tree Road	32	969	0.0	1177	0.0	1177	0.0
21	Cumberland Street	48	12659	2.5	16067	2.3	16354	2.3
22	Cumberland Street (North of Station Road)	32	2277	0.0	2816	0.0	2858	0.0

Link	Link Name	Speed Limit (kph)	2015 Base Year		2025 Opening Year No Development (+Committed)		2025 Opening Year Development (+Committed)	
			Total	HGV %	Total	HGV %	Total	HGV %
23	Station Road	48	11232	2.8	14241	2.6	14486	2.6
24	Thoroughfare (South)	32	1407	0.5	1483	0.5	2034	0.4
25	St Johns Street	48	4353	1.4	5263	1.4	5298	1.4
26	Thoroughfare (North)	48	11984	2.3	15258	2.1	15461	2.1
27	Lime Kiln Quay Road	48	11184	2.2	14177	2.1	14423	2.0
28	Top Street South (South of Site Access)	96	9099	2.0	19689	2.0	19798	2.0
29	Top Street South (North of Site Access)	96	9099	2.0	19689	2.0	19852	2.0
30	Proposed Site Access (Top Street)	48					272	1.5

Appendix 11.2:
Uncorrected Modelling Results

Appendix 11.2: Uncorrected Modelling Results

Annual Mean NO₂, NO_x and PM₁₀ Concentrations (µg/m³)

Receptor	2015 Base Year			2025 Opening/Future Year Without Development			2025 Opening/Future Year With Development		
	NO _x	NO ₂	PM ₁₀	NO _x	NO ₂	PM ₁₀	NO _x	NO ₂	PM ₁₀
ESR 1	21.20	17.74	17.71	22.12	18.21	17.83	22.50	18.40	17.88
ESR 2	19.26	16.76	17.56	20.77	17.52	17.78	20.90	17.59	17.80
ESR 3	16.75	15.00	16.53	17.68	15.48	16.66	17.72	15.50	16.67
ESR 4	20.27	16.80	16.89	21.20	17.27	17.01	21.25	17.30	17.02
ESR 5	21.03	17.19	16.98	22.62	17.98	17.18	22.69	18.02	17.19
ESR 6	19.79	16.22	16.73	21.60	17.14	16.95	21.76	17.22	16.96
ESR 7	20.10	16.98	17.79	25.51	19.69	18.52	25.63	19.75	18.54
ESR 8	28.57	17.90	16.74	30.60	18.91	16.98	30.65	18.94	16.99
PR 1							27.56	17.42	17.82
PR 2							31.14	19.20	18.38
PR 3							22.77	14.96	17.26

Appendix 11.3:
Wind Rose for Wattisham Meteorological Recording Station for 2010-2014

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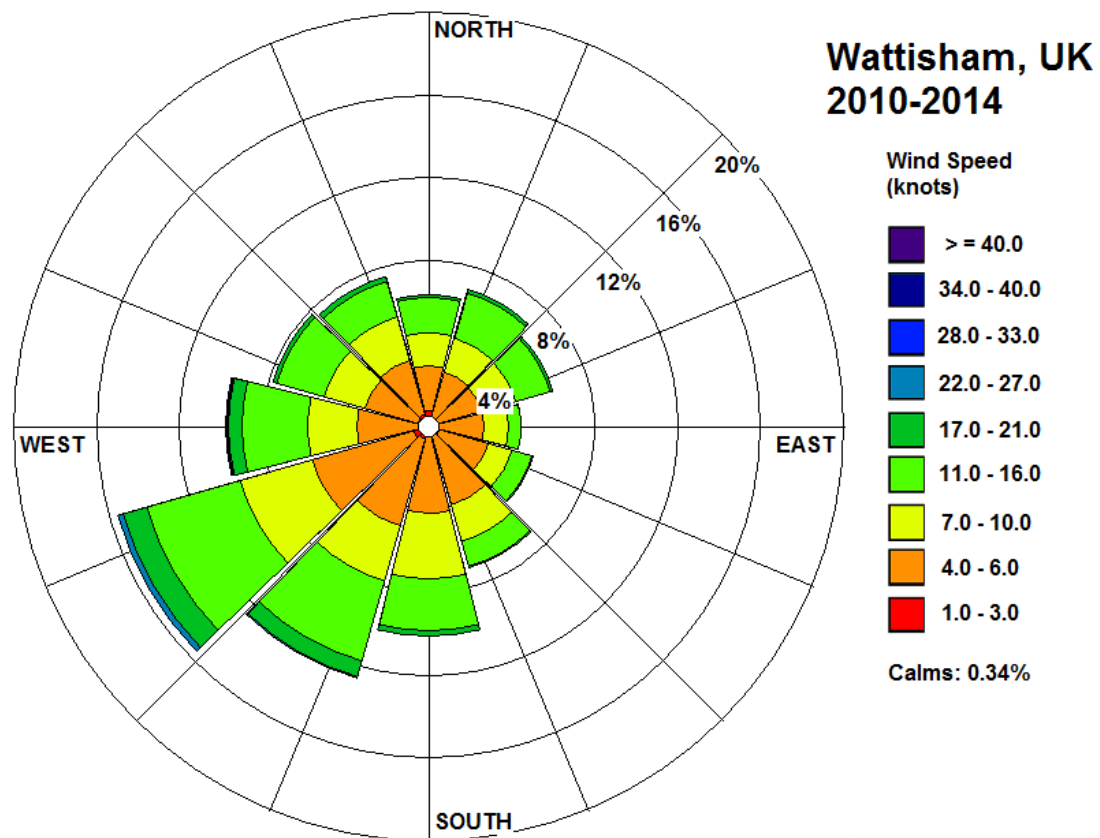
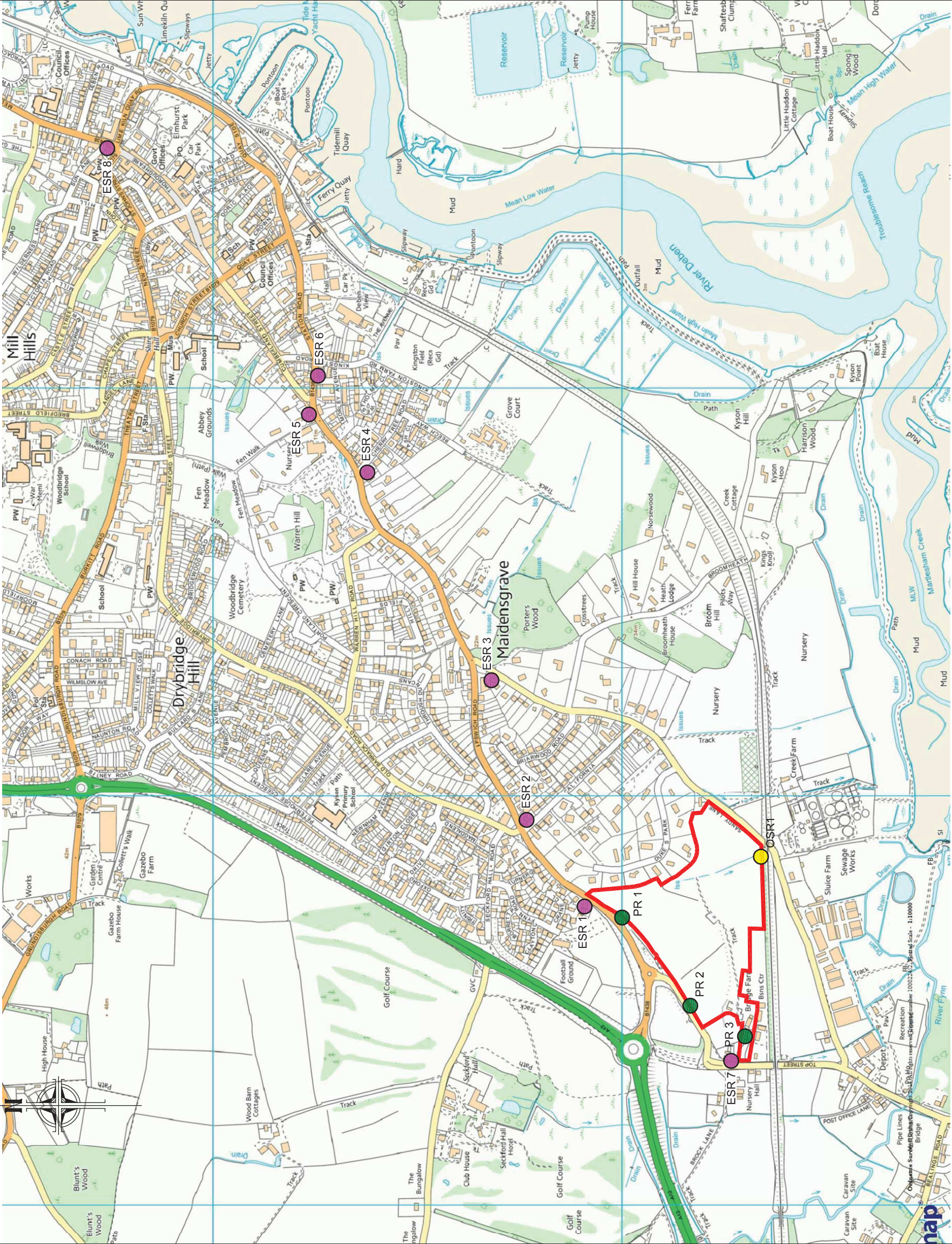


Figure 11.1:
Existing and Proposed Sensitive Receptors

REFERENCE

- SITE BOUNDARY
- EXISTING RECEPTOR LOCATION
- PROPOSED RECEPTOR LOCATION
- ODOUR SENSITIVE RECEPTOR LOCATION



A First Issue

REVISION

CLIENT

Gladman Developments Limited

Duke's Park
Woodbridge

Existing and Proposed
Sensitive Receptors

DRG No. LE12277-001

SCALE 1:10,000 @ A3

DATE 16/11/15

DRAWN BY SG

CHECKED BY ET

APPROVED BY MD

- ☐ STOKE-ON-TRENT (HEAD OFFICE)
- ☐ NEWCASTLE UPON TYNE
- ☐ WEST BROMWICH
- ☐ LONDON
- ☐ CARDIFF
- ☐ LEIGH
- ☐ SHEFFIELD
- ☐ EDINBURGH
- ☐ LIVERPOOL

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