



Botley West Solar Farm

Environmental Statement

Volume 3

Appendix 12.3: Base traffic flows

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Glossary

Term	Meaning
Annual Average Daily Traffic Flows (AADT)	The total volume of vehicular traffic on a section of highway for a year divided by 365 days.
Baseline	The status of the environment without the Project in place.
Growthed	The application of traffic growth rates to traffic flows.
Environmental Statement	The document presenting the results of the Environmental Impact Assessment process.
Heavy Goods Vehicle (HGV)	A lorry with a gross weight exceeding 7.5 tonnes.
Heavy Vehicle (HV)	A vehicle with a gross weight exceeding 7.5 tonnes.
Study Area	This is an area which is defined for each environmental topic which includes the Order Limits as well as potential spatial and temporal considerations of the impacts on relevant receptors. The study area for each topic is intended to cover the area within which an impact can be reasonably expected.
TEMPro	A computer software program developed by the Department for Transport providing traffic growth projections used in transport models and intended to act as a nationwide standardised distribution of growth in trip ends.
The Site or Order Limits	The area of land encompassing the Project development and shown on the Site Location and Order Limits plan (Volume 2, Figure 1.1 of the ES [EN010147/APP/6.4]).
The Applicant	SolarFive Ltd
The Project	The Botley West Solar Farm
Traffic Flows	Traffic flow describes the number of vehicles passing a reference point per unit of time (e.g., vehicles per hour).
Transport Assessment (TA)	A transport assessment is a comprehensive and systematic process that sets out transport issues relating to a proposed development. It identifies what measures will be taken to deal with the anticipated transport impacts of the scheme and to improve accessibility and safety for all modes of travel, particularly for alternatives to the car such as walking, cycling and public transport.
Transport Statement (TS)	A simplified version of a transport assessment where the transport issues arising from development proposals are limited and a full transport assessment is not required.

Abbreviations

Abbreviation	Meaning
AADT	Annual Average Daily Traffic Flows
ATC	Automatic Traffic Counters

Abbreviation	Meaning
CDC	Cherwell District Council
DfT	Department for Transport
ES	Environmental Statement
HGV	Heavy Goods Vehicles
HV	Heavy Vehicle
OCC	Oxfordshire County Council
PVDP	Photovolt Development Partners GmbH
SRN	Strategic Road Network
TA	Transport Assessment
TEMPro	Trip End Model Presentation Programme
TS	Transport Statement
VWHDC	Vale of White Horse District Council
WODC	West Oxfordshire District Council

1 Base Traffic Flows

1.1 Introduction

Overview

1.1.1 This Appendix of the Environmental Statement (ES) has been prepared by RPS on behalf of Photovolt Development Partners GmbH. (PVDP) for the Applicant, SolarFive Ltd. (SolarFive). This Appendix supports Chapter 12: Traffic and transport of the ES.

1.1.2 This Appendix presents a summary of the base traffic flows for the Project which have been used to define a baseline transport position as set out in Volume 1, Chapter 12: Traffic and transport of the ES.

1.1.3 As detailed in **Section 12.6** of Volume 1, Chapter 12: Traffic and transport and Volume 3, Appendix 12.2: Traffic survey data of the ES, base traffic flows have been obtained from the following sources:

- Automatic Traffic Counters (ATCs) installed between 08 November 2023 and 21 November 2023
- Radar Surveys installed between 08 November 2023 and 21 November 2023
- Annual Average Daily Traffic Flow (AADT) data obtained from the Department for Transport (DfT)
- AADT data obtained from Oxfordshire County Council (OCC)
- AADT data obtained from National Highways for the Strategic Road Network (SRN)

1.1.4 The observed traffic survey and traffic flow data from the above sources is set out in Volume 3, Appendix 12.2: Traffic survey data of the ES. A summary of these base traffic flows with the observed survey base year is set out in **Table 1.1** and have been used to define a baseline transport position as set out in Volume 1, Chapter 12: Traffic and transport of the ES.

1.1.5 In addition to this, base traffic flows have been obtained from Transport Assessments / Transport Statements or Traffic and Transport chapters of an ES submitted in support of committed or cumulative development planning applications including:

- West Oxfordshire District Council (WODC) Planning Application Reference 21/00217/OUT - Land North of Banbury Road - ES Traffic and Transport Chapter
- Cherwell District Council (CDC) Planning Application Reference 23/00517/F - New Science Park - Transport Assessment
- Vale of White Horse District Council (VWHDC) Planning Application Reference P23/V2624/FUL - Red House Solar Farm - Transport Statement

- 1.1.6 The traffic survey and traffic flow data from the above sources is publicly available on their respective council planning portal websites. A summary of these base traffic flows with the observed survey base year is set out in **Table 1.1** and have been used to define a baseline transport position as set out in Volume 1, Chapter 12: Traffic and transport of the ES.
- 1.1.7 All tables within this Appendix include total vehicles (all classifications of all vehicles) and Heavy Vehicles (HVs), which comprise all vehicles in excess of 7.5 tonnes gross weight and includes HGVs and buses.
- 1.1.8 **Figure 1.1** of this Appendix present the location of the highway link references in the traffic and transport study area.

Figure 1.1: Traffic and transport study area and highway network overview

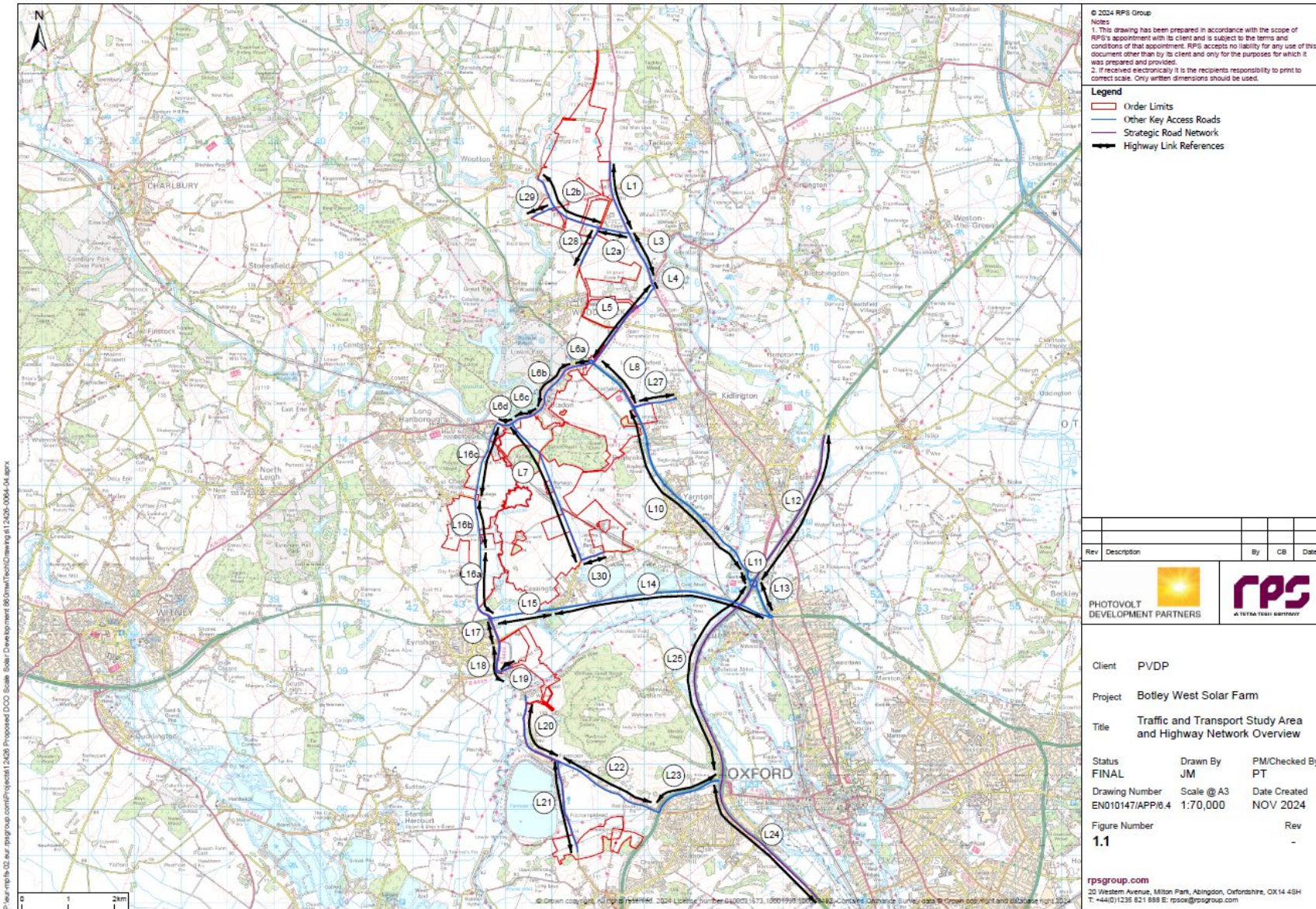


Table 1.1: Observed base traffic flows

Link Reference	Description	AADT		Observed Survey Base Year
		Total Vehicles	HVs	
L1	A4260 Banbury Road between Gate 6 / HDD Access 1.1 and B4027 (West)	10,385	391	2023
L2a	B4027 between A4260 Banbury Road and Banbury Road	4,466	120	2023
L2b	B4027 between Banbury Road and Gate 134 / 76	3,870	104	2023
L3	A4260 Banbury Road between B4027 (East) and A4095 Bunkers Hill	10,130	262	2023
L4	A4260 Banbury Road between A4095 Bunkers Hill and A4095 Upper Campsfield Road	14,455	761	2023
L5	A4095 Upper Campsfield Road between A4260 Banbury Road and A44 Woodstock Road	9,441	454	2023
L6a	A4095 Bladon Road between A44 Woodstock Road and Orchard Field Lane	13,134	404	2023
L6b	A4095 between Orchard Field Lane and Manor Road	13,605	385	2023
L6c	A4095 Main Road between Manor Road and Cassington Road	12,856	277	2023
L6d	A4095 Main Road between Cassington Road and Lower Road	12,856	277	2023
L7	Cassington Road / Burleigh Road between A4095 Main Street and Yarnton Road	1,113	10	2023
L8	A44 Woodstock Road between A4095 and Langford Lane	22,005	1,124	2023
L10	A44 Woodstock Road between Langford Lane and A4260 Frieze Way	20,883	474	2023
L11	A44 between A4260 Frieze Way and A34	27,236	1,479	2023
L12	A34 Northeast of A44 Woodstock Road	63,368	10,945	2022
L13	A44 Woodstock Road between A34 and A40 Northern Bypass Road	27,804	1,835	2023
L14	A40 between A44 Woodstock Road and Eynsham Road	22,030	1,280	2023
L15	A40 to the West of Eynsham Road	24,190	1,378	2023
L16a	Lower Road between A40 and Gate 18 / 138 / Access 5.2	7,031	181	2023
L16b	Lower Road between Gate 18 / 138 / Access 5.2 and Church Road	7,031	181	2023

Link Reference	Description	AADT		Observed Survey Base Year
		Total Vehicles	HVs	
L16c	Lower Road between Church Road and A4095 Main Road	7,031	181	2023
L17	B4449 between A40 and Cassington Road / HDD Access 6.1A	11,533	379	2023
L18	B4449 between Cassington Road / HDD Access 6.1A and B4044 / Wharf Road	10,622	500	2023
L19	Wharf Road between B4044 Oxford Road / HDD Access 6.1B	828	31	2023
L20	B4044 Oxford Road between HDD Access 6.2A / 6.2B and B4017 Cumnor Road	10,162	317	2023
L21	B4017 Cumnor Road between B4044 and Gate 1	2,700	308	2022
L22	B4044 Eynsham Road between B4017 Cumnor Road and A420	9,700	501	2022
L23	A420 between B4044 Eynsham Road and A34	27,900	2,489	2022
L24	A34 Southeast of A420	66,799	8,004	2023
L25	A34 between A420 and A44 Woodstock Road	71,993	8,423	2023
L27	Langford Lane between A44 Woodstock Road and The Boulevard	9,819	455	2022
L28	Banbury Road between the B4027 and Gate 5 / 66	1,245	5	2019
L29	Stratford Lane between the B4027 and Gate 70	1,245	0	2019
L30	Yarnton Road between Burleigh Road and Gate 47 - Gate 52	3,500*	45*	2026*

* Estimate informed by 2003-2009 DfT traffic data and utilising professional judgement. Assumed future base year of 2026.

1.1.9 The A420 Botley Road in Oxford has been closed since April 2023. On this basis, it is acknowledged that traffic surveys undertaken in 2023 may be impacted by the A420 Botley Road closure. An analysis of historic publicly available traffic survey data has been undertaken and evidence suggests that any effect of the A420 Botley Road closure on traffic flows is negligible for all highway links with the exception of Link 20.

1.1.10 The impact of the A420 Botley Road closure on each highway link is summarised in **Table 1.2**.

Table 1.2: Impact of A420 Botley Road closure on observed base traffic flows

Link Reference	Description	Observed Survey Base Year	Impacted by A420 Botley Road Closure?	Reason
L1	A4260 Banbury Road between Gate 6 / HDD Access 1.1 and B4027 (West)	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L2a	B4027 between A4260 Banbury Road and Banbury Road	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L2b	B4027 between Banbury Road and Gate 134 / 76	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L3	A4260 Banbury Road between B4027 (East) and A4095 Bunkers Hill	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L4	A4260 Banbury Road between A4095 Bunkers Hill and A4095 Upper Campsfield Road	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L5	A4095 Upper Campsfield Road between A4260 Banbury Road and A44 Woodstock Road	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L6a	A4095 Bladon Road between A44 Woodstock Road and Orchard Field Lane	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L6b	A4095 between Orchard Field Lane and Manor Road	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L6c	A4095 Main Road between Manor Road and Cassington Road	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L6d	A4095 Main Road between Cassington Road and Lower Road	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L7	Cassington Road / Burleigh Road between A4095 Main Street and Yarnton Road	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L8	A44 Woodstock Road between A4095 and Langford Lane	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L10	A44 Woodstock Road between Langford Lane and A4260 Frieze Way	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L11	A44 between A4260 Frieze Way and A34	2023	No	Evidence suggests that any effect on traffic flows is only negligible

Link Reference	Description	Observed Survey Base Year	Impacted by A420 Botley Road Closure?	Reason
L12	A34 Northeast of A44 Woodstock Road	2022	No	2022 Base Year - Not Impacted by A420 Botley Road Closure
L13	A44 Woodstock Road between A34 and A40 Northern Bypass Road	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L14	A40 between A44 Woodstock Road and Eynsham Road	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L15	A40 to the West of Eynsham Road	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L16a	Lower Road between A40 and Gate 18 / 138 / Access 5.2	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L16b	Lower Road between Gate 18 / 138 / Access 5.2 and Church Road	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L16c	Lower Road between Church Road and A4095 Main Road	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L17	B4449 between A40 and Cassington Road / HDD Access 6.1A	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L18	B4449 between Cassington Road / HDD Access 6.1A and B4044 / Wharf Road	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L19	Wharf Road between B4044 Oxford Road / HDD Access 6.1B	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L20	B4044 Oxford Road between HDD Access 6.2A / 6.2B and B4017 Cumnor Road	2023	Yes	Evidence suggests an increase of approximately 9.09% in traffic flows between 2022 and 2023 on the B4044 Oxford Road (to the northwest of the Swinford Bridge), as a result of the A420 Botley Road closure. Therefore, observed 2023 traffic flows on Link 20 to be decreased by 9.09% and base year revised to 2022. This is based upon AADT data obtained from OCC included as Appendix A1 .
L21	B4017 Cumnor Road between B4044 and Gate 1	2022	No	2022 Base Year - Not Impacted by A420 Botley Road Closure

Link Reference	Description	Observed Survey Base Year	Impacted by A420 Botley Road Closure?	Reason
L22	B4044 Eynsham Road between B4017 Cumnor Road and A420	2022	No	2022 Base Year - Not Impacted by A420 Botley Road Closure
L23	A420 between B4044 Eynsham Road and A34	2022	No	2022 Base Year - Not Impacted by A420 Botley Road Closure
L24	A34 Southeast of A420	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L25	A34 between A420 and A44 Woodstock Road	2023	No	Evidence suggests that any effect on traffic flows is only negligible
L27	Langford Lane between A44 Woodstock Road and The Boulevard	2022	No	2022 Base Year - Not Impacted by A420 Botley Road Closure
L28	Banbury Road between the B4027 and Gate 5 / 66	2019	No	2019 Base Year - Not Impacted by A420 Botley Road Closure
L29	Stratford Lane between the B4027 and Gate 70	2019	No	2019 Base Year - Not Impacted by A420 Botley Road Closure
L30	Yarnton Road between Burleigh Road and Gate 47 - Gate 52	2026	No	2026 Base Year - Not Impacted by A420 Botley Road Closure

1.1.11 The observed base traffic flows on Link 20 have therefore been adjusted with a factor applied which decreased the AADT to 2022 levels.

1.1.12 The resultant base traffic flow on Link 20 taking account of the A420 Botley Road closure is presented in **Table 1.3**.

Table 1.3: A420 Botley Road closure adjustment

Link Reference	Description	Observed AADT			Adjusted AADT		
		Total Vehicles	HVs	Base Year	Total Vehicles	HVs	Base Year
L20	B4044 Oxford Road between HDD Access 6.2A / 6.2B and B4017 Cumnor Road	10,162	317	2023	9,315	291	2022

1.1.13 Traffic growth rates have been applied to the base traffic flows to determine the 2026 future year traffic flows. Details of the growth rates are attached at **Appendix A2** and the 2026 growthed traffic flows are set out in **Table 1.4**.

1.1.14 Committed development traffic flows are set out in **Table 1.5** to **Table 1.8**. The traffic flow data for each committed development is publicly available on their respective council planning portal websites.

1.1.15 A future year baseline of 2026 has been calculated as this is the year in which the peak daily construction traffic flows of the Project would be generated.

1.1.16 The 2026 baseline traffic flows are set out in **Table 1.9** and define a baseline transport position using the base traffic flows growthed to 2026 plus the addition of the committed development traffic flows.

Table 1.4: 2026 Growthed traffic flows

Link Reference	Description	AADT	
		Total Vehicles	HVs
L1	A4260 Banbury Road between Gate 6 / HDD Access 1.1 and B4027 (West)	10,583	398
L2a	B4027 between A4260 Banbury Road and Banbury Road	4,553	122
L2b	B4027 between Banbury Road and Gate 134 / 76	3,945	106
L3	A4260 Banbury Road between B4027 (East) and A4095 Bunkers Hill	10,323	267
L4	A4260 Banbury Road between A4095 Bunkers Hill and A4095 Upper Campsfield Road	14,731	776
L5	A4095 Upper Campsfield Road between A4260 Banbury Road and A44 Woodstock Road	9,621	463
L6a	A4095 Bladon Road between A44 Woodstock Road and Orchard Field Lane	13,385	412
L6b	A4095 between Orchard Field Lane and Manor Road	13,865	392
L6c	A4095 Main Road between Manor Road and Cassington Road	13,102	282
L6d	A4095 Main Road between Cassington Road and Lower Road	13,102	282
L7	Cassington Road / Burleigh Road between A4095 Main Street and Yarnton Road	1,135	10
L8	A44 Woodstock Road between A4095 and Langford Lane	22,425	1,145
L10	A44 Woodstock Road between Langford Lane and A4260 Frieze Way	21,282	483
L11	A44 between A4260 Frieze Way and A34	27,756	1,507
L12	A34 Northeast of A44 Woodstock Road	65,814	11,367
L13	A44 Woodstock Road between A34 and A40 Northern Bypass Road	28,335	1,870
L14	A40 between A44 Woodstock Road and Eynsham Road	22,451	1,304
L15	A40 to the West of Eynsham Road	24,652	1,404
L16a	Lower Road between A40 and Gate 18 / 138 / Access 5.2	7,167	185
L16b	Lower Road between Gate 18 / 138 / Access 5.2 and Church Road	7,167	185

Link Reference	Description	AADT	
		Total Vehicles	HVs
L16c	Lower Road between Church Road and A4095 Main Road	7,167	185
L17	B4449 between A40 and Cassington Road / HDD Access 6.1A	11,757	386
L18	B4449 between Cassington Road / HDD Access 6.1A and B4044 / Wharf Road	10,828	510
L19	Wharf Road between B4044 Oxford Road / HDD Access 6.1B	844	32
L20	B4044 Oxford Road between HDD Access 6.2A / 6.2B and B4017 Cumnor Road	9,540	298
L21	B4017 Cumnor Road between B4044 and Gate 1	2,765	315
L22	B4044 Eynsham Road between B4017 Cumnor Road and A420	9,934	513
L23	A420 between B4044 Eynsham Road and A34	28,558	2,548
L24	A34 Southeast of A420	68,790	8,243
L25	A34 between A420 and A44 Woodstock Road	74,138	8,674
L27	Langford Lane between A44 Woodstock Road and The Boulevard	10,055	465
L28	Banbury Road between the B4027 and Gate 5 / 66	1,296	5
L29	Stratford Lane between the B4027 and Gate 70	1,296	0
L30	Yarnton Road between Burleigh Road and Gate 47 - Gate 52	3,500	45

Table 1.5: Committed development – Land East of Woodstock (WODC planning application reference: 16/01364/OUT) traffic flows

Link Reference	Description	AADT	
		Total Vehicles	HVs
L1	A4260 Banbury Road between Gate 6 / HDD Access 1.1 and B4027 (West)	0	0
L2a	B4027 between A4260 Banbury Road and Banbury Road	0	0
L2b	B4027 between Banbury Road and Gate 134 / 76	0	0
L3	A4260 Banbury Road between B4027 (East) and A4095 Bunkers Hill	0	0
L4	A4260 Banbury Road between A4095 Bunkers Hill and A4095 Upper Campsfield Road	0	0
L5	A4095 Upper Campsfield Road between A4260 Banbury Road and A44 Woodstock Road	16	0
L6a	A4095 Bladon Road between A44 Woodstock Road and Orchard Field Lane	73	0
L6b	A4095 between Orchard Field Lane and Manor Road	73	0
L6c	A4095 Main Road between Manor Road and Cassington Road	73	0
L6d	A4095 Main Road between Cassington Road and Lower Road	73	0
L7	Cassington Road / Burleigh Road between A4095 Main Street and Yarnton Road	0	0
L8	A44 Woodstock Road between A4095 and Langford Lane	230	0
L10	A44 Woodstock Road between Langford Lane and A4260 Frieze Way	230	0
L11	A44 between A4260 Frieze Way and A34	230	0
L12	A34 Northeast of A44 Woodstock Road	0	0
L13	A44 Woodstock Road between A34 and A40 Northern Bypass Road	0	0
L14	A40 between A44 Woodstock Road and Eynsham Road	0	0
L15	A40 to the West of Eynsham Road	0	0
L16a	Lower Road between A40 and Gate 18 / 138 / Access 5.2	0	0
L16b	Lower Road between Gate 18 / 138 / Access 5.2 and Church Road	0	0
L16c	Lower Road between Church Road and A4095 Main Road	0	0

Link Reference	Description	AADT	
		Total Vehicles	HVs
L17	B4449 between A40 and Cassington Road / HDD Access 6.1A	0	0
L18	B4449 between Cassington Road / HDD Access 6.1A and B4044 / Wharf Road	0	0
L19	Wharf Road between B4044 Oxford Road / HDD Access 6.1B	0	0
L20	B4044 Oxford Road between HDD Access 6.2A / 6.2B and B4017 Cumnor Road	0	0
L21	B4017 Cumnor Road between B4044 and Gate 1	0	0
L22	B4044 Eynsham Road between B4017 Cumnor Road and A420	0	0
L23	A420 between B4044 Eynsham Road and A34	0	0
L24	A34 Southeast of A420	0	0
L25	A34 between A420 and A44 Woodstock Road	0	0
L27	Langford Lane between A44 Woodstock Road and The Boulevard	0	0
L28	Banbury Road between the B4027 and Gate 5 / 66	0	0
L29	Stratford Lane between the B4027 and Gate 70	0	0
L30	Yarnton Road between Burleigh Road and Gate 47 - Gate 52	0	0

Table 1.6: Committed development – Land East of Hill Rise (WODC planning application reference: 21/00189/FUL) traffic flows

Link Reference	Description	AADT	
		Total Vehicles	HVs
L1	A4260 Banbury Road between Gate 6 / HDD Access 1.1 and B4027 (West)	0	0
L2a	B4027 between A4260 Banbury Road and Banbury Road	0	0
L2b	B4027 between Banbury Road and Gate 134 / 76	0	0
L3	A4260 Banbury Road between B4027 (East) and A4095 Bunkers Hill	0	0
L4	A4260 Banbury Road between A4095 Bunkers Hill and A4095 Upper Campsfield Road	0	0
L5	A4095 Upper Campsfield Road between A4260 Banbury Road and A44 Woodstock Road	0	0
L6a	A4095 Bladon Road between A44 Woodstock Road and Orchard Field Lane	74	0
L6b	A4095 between Orchard Field Lane and Manor Road	74	0
L6c	A4095 Main Road between Manor Road and Cassington Road	74	0
L6d	A4095 Main Road between Cassington Road and Lower Road	74	0
L7	Cassington Road / Burleigh Road between A4095 Main Street and Yarnton Road	0	0
L8	A44 Woodstock Road between A4095 and Langford Lane	219	0
L10	A44 Woodstock Road between Langford Lane and A4260 Frieze Way	219	0
L11	A44 between A4260 Frieze Way and A34	219	0
L12	A34 Northeast of A44 Woodstock Road	0	0
L13	A44 Woodstock Road between A34 and A40 Northern Bypass Road	0	0
L14	A40 between A44 Woodstock Road and Eynsham Road	0	0
L15	A40 to the West of Eynsham Road	0	0
L16a	Lower Road between A40 and Gate 18 / 138 / Access 5.2	0	0
L16b	Lower Road between Gate 18 / 138 / Access 5.2 and Church Road	0	0
L16c	Lower Road between Church Road and A4095 Main Road	0	0

Link Reference	Description	AADT	
		Total Vehicles	HVs
L17	B4449 between A40 and Cassington Road / HDD Access 6.1A	0	0
L18	B4449 between Cassington Road / HDD Access 6.1A and B4044 / Wharf Road	0	0
L19	Wharf Road between B4044 Oxford Road / HDD Access 6.1B	0	0
L20	B4044 Oxford Road between HDD Access 6.2A / 6.2B and B4017 Cumnor Road	0	0
L21	B4017 Cumnor Road between B4044 and Gate 1	0	0
L22	B4044 Eynsham Road between B4017 Cumnor Road and A420	0	0
L23	A420 between B4044 Eynsham Road and A34	0	0
L24	A34 Southeast of A420	0	0
L25	A34 between A420 and A44 Woodstock Road	0	0
L27	Langford Lane between A44 Woodstock Road and The Boulevard	0	0
L28	Banbury Road between the B4027 and Gate 5 / 66	0	0
L29	Stratford Lane between the B4027 and Gate 70	0	0
L30	Yarnton Road between Burleigh Road and Gate 47 - Gate 52	0	0

Table 1.7: Committed development – New Science Park (CDC planning application reference: 23/00517/F) traffic flows

Link Reference	Description	AADT	
		Total Vehicles	HVs
L1	A4260 Banbury Road between Gate 6 / HDD Access 1.1 and B4027 (West)	0	0
L2a	B4027 between A4260 Banbury Road and Banbury Road	0	0
L2b	B4027 between Banbury Road and Gate 134 / 76	0	0
L3	A4260 Banbury Road between B4027 (East) and A4095 Bunkers Hill	0	0
L4	A4260 Banbury Road between A4095 Bunkers Hill and A4095 Upper Campsfield Road	0	0
L5	A4095 Upper Campsfield Road between A4260 Banbury Road and A44 Woodstock Road	0	0
L6a	A4095 Bladon Road between A44 Woodstock Road and Orchard Field Lane	0	0
L6b	A4095 between Orchard Field Lane and Manor Road	0	0
L6c	A4095 Main Road between Manor Road and Cassington Road	0	0
L6d	A4095 Main Road between Cassington Road and Lower Road	0	0
L7	Cassington Road / Burleigh Road between A4095 Main Street and Yarnton Road	0	0
L8	A44 Woodstock Road between A4095 and Langford Lane	0	0
L10	A44 Woodstock Road between Langford Lane and A4260 Frieze Way	0	0
L11	A44 between A4260 Frieze Way and A34	0	0
L12	A34 Northeast of A44 Woodstock Road	0	0
L13	A44 Woodstock Road between A34 and A40 Northern Bypass Road	0	0
L14	A40 between A44 Woodstock Road and Eynsham Road	0	0
L15	A40 to the West of Eynsham Road	0	0
L16a	Lower Road between A40 and Gate 18 / 138 / Access 5.2	0	0
L16b	Lower Road between Gate 18 / 138 / Access 5.2 and Church Road	0	0
L16c	Lower Road between Church Road and A4095 Main Road	0	0

Link Reference	Description	AADT	
		Total Vehicles	HVs
L17	B4449 between A40 and Cassington Road / HDD Access 6.1A	0	0
L18	B4449 between Cassington Road / HDD Access 6.1A and B4044 / Wharf Road	0	0
L19	Wharf Road between B4044 Oxford Road / HDD Access 6.1B	0	0
L20	B4044 Oxford Road between HDD Access 6.2A / 6.2B and B4017 Cumnor Road	0	0
L21	B4017 Cumnor Road between B4044 and Gate 1	0	0
L22	B4044 Eynsham Road between B4017 Cumnor Road and A420	0	0
L23	A420 between B4044 Eynsham Road and A34	0	0
L24	A34 Southeast of A420	0	0
L25	A34 between A420 and A44 Woodstock Road	0	0
L27	Langford Lane between A44 Woodstock Road and The Boulevard	337	0
L28	Banbury Road between the B4027 and Gate 5 / 66	0	0
L29	Stratford Lane between the B4027 and Gate 70	0	0
L30	Yarnton Road between Burleigh Road and Gate 47 - Gate 52	0	0

Table 1.8: Committed development – Northern Gateway (Oxford City Council planning application reference: 18/02065/OUTFUL) traffic flows

Link Reference	Description	AADT	
		Total Vehicles	HVs
L1	A4260 Banbury Road between Gate 6 / HDD Access 1.1 and B4027 (West)	0	0
L2a	B4027 between A4260 Banbury Road and Banbury Road	0	0
L2b	B4027 between Banbury Road and Gate 134 / 76	0	0
L3	A4260 Banbury Road between B4027 (East) and A4095 Bunkers Hill	0	0
L4	A4260 Banbury Road between A4095 Bunkers Hill and A4095 Upper Campsfield Road	0	0
L5	A4095 Upper Campsfield Road between A4260 Banbury Road and A44 Woodstock Road	0	0
L6a	A4095 Bladon Road between A44 Woodstock Road and Orchard Field Lane	0	0
L6b	A4095 between Orchard Field Lane and Manor Road	0	0
L6c	A4095 Main Road between Manor Road and Cassington Road	0	0
L6d	A4095 Main Road between Cassington Road and Lower Road	0	0
L7	Cassington Road / Burleigh Road between A4095 Main Street and Yarnton Road	0	0
L8	A44 Woodstock Road between A4095 and Langford Lane	407	0
L10	A44 Woodstock Road between Langford Lane and A4260 Frieze Way	407	0
L11	A44 between A4260 Frieze Way and A34	827	0
L12	A34 Northeast of A44 Woodstock Road	1,430	0
L13	A44 Woodstock Road between A34 and A40 Northern Bypass Road	3,878	0
L14	A40 between A44 Woodstock Road and Eynsham Road	647	0
L15	A40 to the West of Eynsham Road	480	0
L16a	Lower Road between A40 and Gate 18 / 138 / Access 5.2	0	0
L16b	Lower Road between Gate 18 / 138 / Access 5.2 and Church Road	0	0
L16c	Lower Road between Church Road and A4095 Main Road	0	0

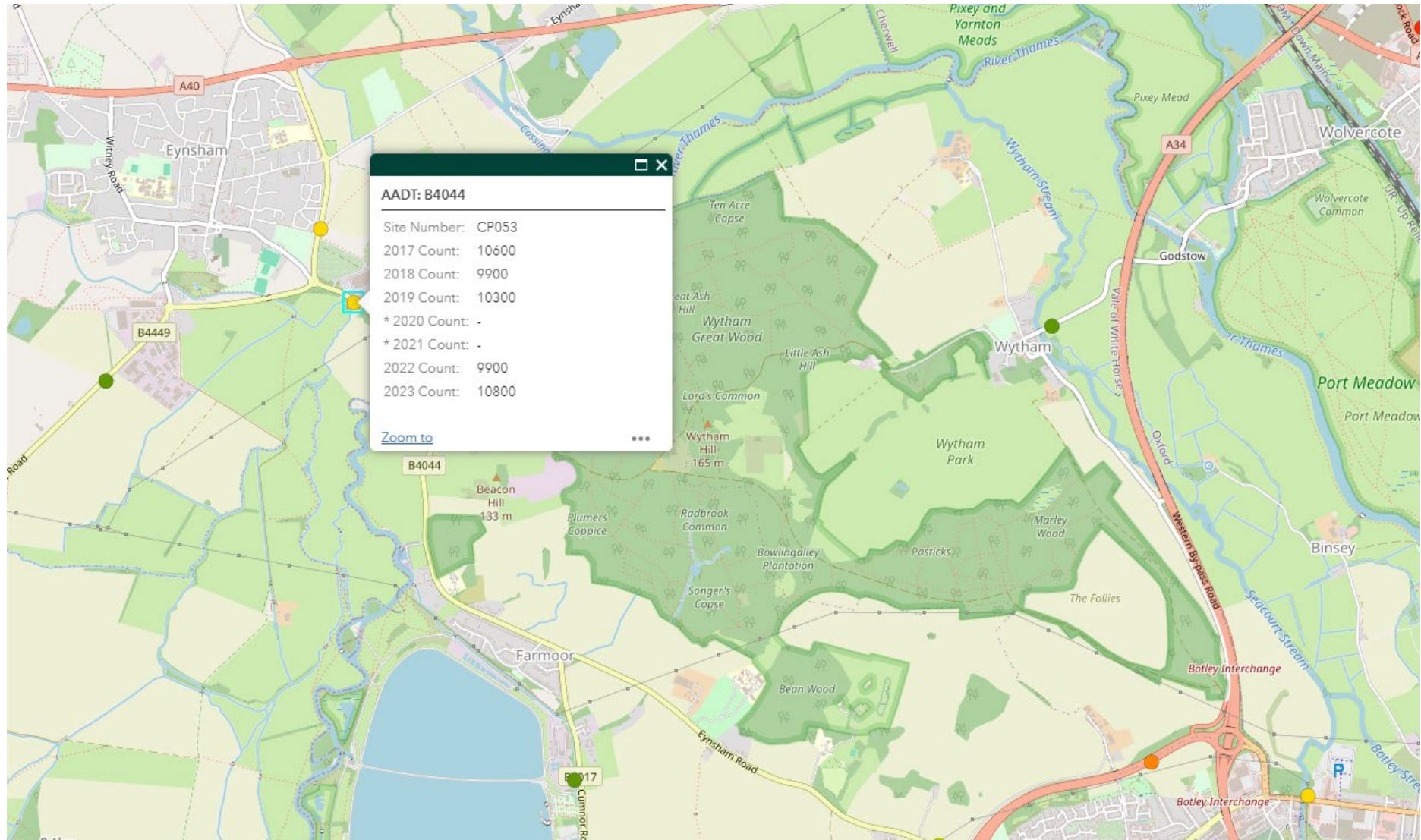
Link Reference	Description	AADT	
		Total Vehicles	HVs
L17	B4449 between A40 and Cassington Road / HDD Access 6.1A	0	0
L18	B4449 between Cassington Road / HDD Access 6.1A and B4044 / Wharf Road	0	0
L19	Wharf Road between B4044 Oxford Road / HDD Access 6.1B	0	0
L20	B4044 Oxford Road between HDD Access 6.2A / 6.2B and B4017 Cumnor Road	0	0
L21	B4017 Cumnor Road between B4044 and Gate 1	0	0
L22	B4044 Eynsham Road between B4017 Cumnor Road and A420	0	0
L23	A420 between B4044 Eynsham Road and A34	0	0
L24	A34 Southeast of A420	1,593	0
L25	A34 between A420 and A44 Woodstock Road	1,593	0
L27	Langford Lane between A44 Woodstock Road and The Boulevard	0	0
L28	Banbury Road between the B4027 and Gate 5 / 66	0	0
L29	Stratford Lane between the B4027 and Gate 70	0	0
L30	Yarnton Road between Burleigh Road and Gate 47 - Gate 52	0	0

Table 1.9: 2026 Baseline traffic flows

Link Reference	Description	AADT	
		Total Vehicles	HVs
L1	A4260 Banbury Road between Gate 6 / HDD Access 1.1 and B4027 (West)	10,583	398
L2a	B4027 between A4260 Banbury Road and Banbury Road	4,553	122
L2b	B4027 between Banbury Road and Gate 134 / 76	3,945	106
L3	A4260 Banbury Road between B4027 (East) and A4095 Bunkers Hill	10,323	267
L4	A4260 Banbury Road between A4095 Bunkers Hill and A4095 Upper Campsfield Road	14,731	776
L5	A4095 Upper Campsfield Road between A4260 Banbury Road and A44 Woodstock Road	9,638	463
L6a	A4095 Bladon Road between A44 Woodstock Road and Orchard Field Lane	13,531	412
L6b	A4095 between Orchard Field Lane and Manor Road	14,011	392
L6c	A4095 Main Road between Manor Road and Cassington Road	13,248	282
L6d	A4095 Main Road between Cassington Road and Lower Road	13,248	282
L7	Cassington Road / Burleigh Road between A4095 Main Street and Yarnton Road	1,135	10
L8	A44 Woodstock Road between A4095 and Langford Lane	23,282	1,145
L10	A44 Woodstock Road between Langford Lane and A4260 Frieze Way	22,139	483
L11	A44 between A4260 Frieze Way and A34	29,033	1,507
L12	A34 Northeast of A44 Woodstock Road	67,243	11,367
L13	A44 Woodstock Road between A34 and A40 Northern Bypass Road	32,213	1,870
L14	A40 between A44 Woodstock Road and Eynsham Road	23,098	1,304
L15	A40 to the West of Eynsham Road	25,132	1,404
L16a	Lower Road between A40 and Gate 18 / 138 / Access 5.2	7,167	185
L16b	Lower Road between Gate 18 / 138 / Access 5.2 and Church Road	7,167	185
L16c	Lower Road between Church Road and A4095 Main Road	7,167	185
L17	B4449 between A40 and Cassington Road / HDD Access 6.1A	11,757	386

Link Reference	Description	AADT	
		Total Vehicles	HVs
L18	B4449 between Cassington Road / HDD Access 6.1A and B4044 / Wharf Road	10,828	510
L19	Wharf Road between B4044 Oxford Road / HDD Access 6.1B	844	32
L20	B4044 Oxford Road between HDD Access 6.2A / 6.2B and B4017 Cumnor Road	9,540	298
L21	B4017 Cumnor Road between B4044 and Gate 1	2,765	315
L22	B4044 Eynsham Road between B4017 Cumnor Road and A420	9,934	513
L23	A420 between B4044 Eynsham Road and A34	28,558	2,548
L24	A34 Southeast of A420	70,382	8,243
L25	A34 between A420 and A44 Woodstock Road	75,731	8,674
L27	Langford Lane between A44 Woodstock Road and The Boulevard	10,393	465
L28	Banbury Road between the B4027 and Gate 5 / 66	1,296	5
L29	Stratford Lane between the B4027 and Gate 70	1,296	0
L30	Yarnton Road between Burleigh Road and Gate 47 - Gate 52	3,500	45

A1: A420 Botley Road Closure – B4044 Oxford Road OCC AADT Data



A2: TEMPro Growth Rates

Growth Rates		
Core Scenario		
2023 - 2026		
Trunk - Region		
Level	Area	Local Growth Figure
County	Oxfordshire	1.0298
A Road - Region		
Level	Area	Local Growth Figure
County	Oxfordshire	1.0191
Minor - Region		
Level	Area	Local Growth Figure
County	Oxfordshire	1.0194
2022 - 2026		
Trunk - Region		
Level	Area	Local Growth Figure
County	Oxfordshire	1.0386
A Road - Region		
Level	Area	Local Growth Figure
County	Oxfordshire	1.0236
Minor - Region		
Level	Area	Local Growth Figure
County	Oxfordshire	1.0241
2019 - 2026		
Minor - Region		
Level	Area	Local Growth Figure
County	Oxfordshire	1.0407

Growth Rates for Links			
Link Reference	Description	Base Year	Growth Rate
L1	A4260 Banbury Road between Gate 6 / HDD Access 1.1 and B4027 (West)	2023	1.0191
L2a	B4027 between A4260 Banbury Road and Banbury Road	2023	1.0194
L2b	B4027 between Banbury Road and Gate 134 / 76	2023	1.0194
L3	A4260 Banbury Road between B4027 (East) and A4095 Bunkers Hill	2023	1.0191
L4	A4260 Banbury Road between A4095 Bunkers Hill and A4095 Upper Campsfield Road	2023	1.0191
L5	A4095 Upper Campsfield Road between A4260 Banbury Road and A44 Woodstock Road	2023	1.0191
L6a	A4095 Bladon Road between A44 Woodstock Road and Orchard Field Lane	2023	1.0191
L6b	A4095 between Orchard Field Lane and Manor Road	2023	1.0191
L6c	A4095 Main Road between Manor Road and Cassington Road	2023	1.0191
L6d	A4095 Main Road between Cassington Road and Lower Road	2023	1.0191
L7	Cassington Road / Burleigh Road between A4095 Main Street and Yarnton Road	2023	1.0194
L8	A44 Woodstock Road between A4095 and Langford Lane	2023	1.0191
L10	A44 Woodstock Road between Langford Lane and A4260 Frieze Way	2023	1.0191
L11	A44 between A4260 Frieze Way and A34	2023	1.0191
L12	A34 Northeast of A44 Woodstock Road	2022	1.0386
L13	A44 Woodstock Road between A34 and A40 Northern By Pass Road	2023	1.0191
L14	A40 between A44 Woodstock Road and Eynsham Road	2023	1.0191
L15	A40 to the West of Eynsham Road	2023	1.0191
L16a	Lower Road between A40 and Gate 18 / 138 / Access 5.2	2023	1.0194
L16b	Lower Road between Gate 18 / 138 / Access 5.2 and Church Road	2023	1.0194
L16c	Lower Road between Church Road and A4095 Main Road	2023	1.0194
L17	B4449 between A40 and Cassington Road / HDD Access 6.1A	2023	1.0194
L18	B4449 between Cassington Road / HDD Access 6.1A and B4044 / Wharf Road	2023	1.0194
L19	Wharf Road between B4044 Oxford Road / HDD Access 6.1B	2023	1.0194
L20	B4044 Oxford Road between HDD Access 6.2A / 6.2B and B4017 Cumnor Road	2022	1.0241
L21	B4017 Cumnor Road between B4044 and Gate 1	2022	1.0241
L22	B4044 Eynsham Road between B4017 Cumnor Road and A420	2022	1.0241
L23	A420 between B4044 Eynsham Road and A34	2022	1.0236
L24	A34 Southeast of A420	2023	1.0298
L25	A34 between A420 and A44 Woodstock Road	2023	1.0298
L27	Langford Lane between A44 Woodstock Road and The Boulevard	2022	1.0241
L28	Banbury Road between the B4027 and Gate 5 / 66	2019	1.0407
L29	Stratford Lane between the B4027 and Gate 70	2019	1.0407
L30	Yarnton Road between Burleigh Road and Gate 47 - Gate 52	2026	N/A