Medway Transport Model

Data Collection Report

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Medway Council, Kent County Council

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Medway Transport Model

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Jacobs U.K. Limited

Cottons Centre, Cottons Lane London SE1 2QG United Kingdom T +44 (0)20 3980 2000

www.jacobs.com

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Contents

| 1. | Introduction | 5 |
|-------|---|------|
| 1.1 | Purpose of this Document | 5 |
| 1.2 | Background Information | 5 |
| 1.2.1 | Model Background | 5 |
| 1.2.2 | Objectives of a Local Plan Detailed Assessment | 7 |
| 1.2.3 | Medway Local Plan | 7 |
| 1.2.4 | Data Collection in Medway | 7 |
| 1.3 | Structure of this Report | 8 |
| 2. | The Need for Traffic Data | 9 |
| 2.1 | Overview of Data Requirements | 9 |
| 2.2 | Use of Survey Data | 9 |
| 2.3 | Use of Other Data | 9 |
| 3. | Summary and Review of Traffic Data | . 11 |
| 3.1 | Existing Traffic Data | . 11 |
| 3.1.1 | Existing Automatic Traffic Counts (ATCs) | . 11 |
| 3.1.2 | Existing Manual Classified Counts (MCC) | . 12 |
| 3.2 | Supplementary Data Collection | . 14 |
| 3.2.1 | Additional Automatic Traffic Counts (ATCs) | . 15 |
| 3.2.2 | Additional Manual Classified Counts (MCC) | . 16 |
| 3.3 | Journey Time Information | . 18 |
| 4. | Use of Available Traffic Models | . 19 |
| 4.1 | Existing Traffic Models | . 19 |
| 4.2 | Use of Existing Model Information | . 19 |
| 5. | Final Volumetric Dataset | . 20 |
| 5.1 | Final Traffic Count Dataset | . 20 |
| 5.2 | Data Quality, Checking and Consistency Checks | . 20 |
| 5.2.1 | Consistency Checks | .21 |
| 6. | Final Trip Dataset | . 23 |
| 6.1 | Introduction | . 23 |
| 6.2 | The Kent Transport Model and Use of Mobile Phone Data | . 23 |
| 6.3 | Conversion from Kent Countywide Zoning System using Census Data | .24 |
| 7. | Journey Time Data | . 26 |
| 7.1 | Existing Traffic Performance | . 26 |
| 7.2 | Journey Time Routes | . 27 |
| 7.3 | Existing Journey Time Conditions | . 28 |
| 7.4 | Summary of Journey Time Data | . 29 |
| 8. | Traffic Signal Data | . 30 |
| 8.1 | Junction Signal Timings | . 30 |

| 8.2 | Level Crossing Timings | 31 |
|-----|-----------------------------|----|
| 9. | Summary | 33 |
| 9.1 | Data Management | 33 |
| 9.2 | Summary of Adequacy of Data | 33 |

Figures

| Figure 1-1: Medway Transport Model Development Process | 6 |
|--|----|
| Figure 3-1: Existing ATC Data within the Medway AODM | 12 |
| Figure 3-2: Existing MCC Data within the Medway AODM | 13 |
| Figure 3-3: Additional ATCs in Medway | 16 |
| Figure 3-4: Additional MCCs in Medway | |
| Figure 5-1: Counts used within the Medway Transport Model | |
| Figure 6-1: Summary of Matrix Building Process for the Kent Transport Model | |
| Figure 7-1: Medway Existing Traffic Delays (AM Peak, 08:00 – 09:00) | |
| Figure 7-2: Medway Existing Traffic Delays (PM Peak, 17:00 – 18:00) | |
| Figure 7-3: Journey Time Validation Routes in the Medway Transport Model | |
| Figure 8-1: Signalised junctions within Medway AODM | |
| Figure 8-2: Actual Junction and the Equivalent Modelled Signalised Junction | |
| Figure 8-3: Actual Level Crossing and the Equivalent Modelled Level Crossing | |

Tables

| Table 2-1: Outline of Survey Data, Source and Uses | 9 |
|---|----|
| Table 2-2: Outline of Other Data, Sources and Key Uses | 10 |
| Table 3-1: Types of Count Dataset Available | 11 |
| Table 3-2: MCC Classification Identifiers | 14 |
| Table 3-3: Additional ATC Count Locations | 15 |
| Table 3-4: Additional MCC Count Locations | 17 |
| Table 4-1: Risks associated with the Medway Transport Model and Mitigation Methods put in place | 19 |
| Table 5-1: Road Data Consistency Checks | 22 |
| Table 6-1: Conversion of Origin-Destination Matrices | 24 |
| Table 7-1: Teletrac Average Observed Journey Times | 29 |

Limitation Statement

The sole purpose of this technical report is to describe the collation, collection, and initial analysis of highway data upon which the Medway Transport Model, based on the Kent Countywide Strategic Transport Model, is built. The report should be read in full with no excerpts out of context deemed to be representative of the report and its findings as a whole. This report has been prepared exclusively for Jacobs and Jacobs' end clients (Kent County Council, Medway Council) and no liability is accepted for any use of, or reliance on, the report by third parties.

Several of the figures within this report have been generated in the PTV VISUM software using OpenStreetMap[®] open source data, licensed under the Open Data Commons Open Database License (ODbL) by the OpenStreetMap Foundation (OSMF). The data is available under the ODbL. For more information see http://www.openstreetmap.org/copyright.

1. Introduction

1.1 Purpose of this Document

As Kent Transport Model (KTM) custodian to Kent County Council (KCC), Jacobs have been asked to develop the required strategic modelling necessary to provide the evidence base for the Regulation 19 (Reg19) Local Plan consultation for Medway Council (MC). This warrants development of the Medway Transport Model based on an existing cordon of the KTM, developed to support the neighbouring Gravesham Transport Model. The Medway Transport Model needs to follow a standard sufficient for this purpose, with due regard to Transport Analysis Guidance (TAG).

The purpose of this Data Collection Report (DCR) is to provide a review of the existing data sources (including latest data) and report on the collection and initial analysis of the data upon which the Medway Transport Model has been developed.

1.2 Background Information

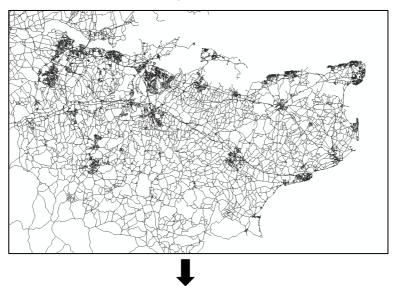
1.2.1 Model Background

KCC commissioned Jacobs to develop the Medway Transport Model, inherited from the KTM. The KTM was built to help KCC understand how people currently travel strategically around the region and how this might change with future growth and as major schemes and strategic interventions are implemented. The KTM was built with the following objectives:

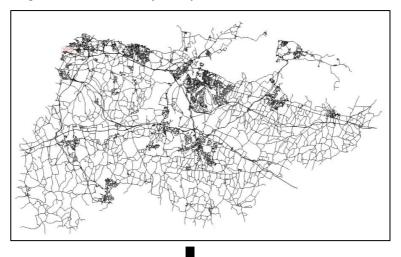
- To help to develop countywide transport strategies;
- To help to assess the combined strategic impact of major highway schemes;
- To help to provide evidence for early appraisal and sifting of strategic major scheme options and to support the development consent order and town and country planning process on key schemes;
- To help to assess the combined strategic impact of Local Plans on the network, including providing evidence for Local Plan development and hearings (and cumulative impacts once Local Plans are in place);
- To provide evidence and robust, responsive, and persuasive arguments to a range of internal and external stakeholders, including responses to Government department or company consultations;
- The ability to help understand and mitigate the impact of external influences, e.g. Brexit, Housing allocations, National Highways schemes;
- To help to understand suitable phasing of maintenance and utilities work to manage congestion impacts;
- To provide a potential platform for a suite of strategic town/sub-area models or scheme-specific models requiring greater detail;
- To provide a potential basis for highway corridor micro-simulation models in the PTV VISSIM software platform; and
- To provide a potential platform for future dynamic and/or real-time predictive modelling solutions that could help optimise the performance of the existing Kent transport network using technology.

The Medway Transport Model, based on the KTM and using the same model cordon area as the recently development Gravesham Transport Model, has been developed as the primary transport evidence base to inform the Regulation 19 consultation and mitigation development for the emerging Medway Local Plan and will be used to assess any future development planning / network management work in Medway over the next few years. The cordoning process to define the Medway Transport Model is shown in Figure 1-1.

Kent Transport Model (KTM)



Cordoned Model (covering Gravesham, Medway, Dartford, Sevenoaks, Maidstone and Tonbridge and Malling)



Medway Transport Model (MTM), Area of Detailed Modelling (AODM)

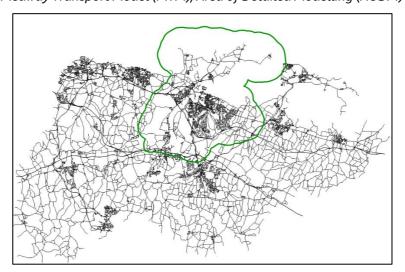


Figure 1-1: Medway Transport Model Development Process

The base year Medway Transport Model has been developed using the same cordon of the existing 2019 Base Kent Transport Model that was used to support the Gravesham Transport Model for Gravesham Local Plan transport evidence base. The network and zoning detail within Medway has been enhanced and refined as part of the local model revalidation process. Following initial engagement with National Highways, as shown in Figure 1-1 the Area of Detailed Modelling (AODM) has been defined, this includes the area contained within the Medway borough boundary, with a buffer area of approximately 2 miles to ensure that the next major strategic road network junction is included, as agreed with NH.

The Medway Transport Model will be used as the basis for developing a 2040 Reference Case ('Do Minimum' – e.g without the Local Plan) in which committed developments and infrastructure will be modelled, in addition to adjusted background growth. Subsequently a 2040 'Do Something' model (e.g with the Local Plan option) will be developed to assess the proposed Local Plan allocations, to be consulted on as part of Reg19.

1.2.2 Objectives of a Local Plan Detailed Assessment

The objectives of LP assessments are to:

- 1. Assess the quality and capacity of transport infrastructure across the borough and its ability to meet forecast demands this can be developed through the traffic modelling proposed here.
- 2. Assess the cumulative impacts of the LP development options on the borough's transport network this can be developed through the traffic modelling proposed here.
- 3. Identify proposals and potential measures to mitigate the impacts of development to inform the infrastructure requirements associated with the LP. This should include, but is not limited to:
 - a. Identification of potential measures to enable and achieve higher levels of sustainable transport mode share across the borough.
 - b. Identification of the potential barriers to the utilisation of sustainable transport modes across the borough.
 - c. Identification of potential intervention measures on the transport network.

1.2.3 Medway Local Plan

MC are required to undertake traffic modelling assessments to inform decision making on the Medway Local Plan for Reg19 consultation, which is proposed for 2024. This Data Collection Report presents the various data sources (existing and new) which underpin the development of the Medway Transport Model and should be read in conjunction with the Local Model Validation Report (LMVR).

Using information on the consented growth in Medway and proposed Local Plan allocations, an Area of Detailed Modelled has been defined and agreed with National Highways; within this AODM, journey times, screenlines and link counts will be defined and used to inform the base model enhancement in this area.

1.2.4 Data Collection in Medway

This report sets out the existing available data in addition to data collection undertaken in June 2023 on several roads in and around Medway; the survey results collected will be fed into the calibration and validation of the Medway Transport Model.

The following data collection methods were employed as part of the surveys:

- Automatic Traffic Counts (ATC) from installed rubber tubes;
- Radar survey to collect vehicle volumes on high-speed roads; and,

• Manual Classified Counts (MCC) from video footage at key junctions.

Each of these methods is described in more detail within this report. A comparative analysis has been carried out between the ATCs and MCCs to understand the consistency of the data; the trend between 2019 and 2022 has also been analysed to ensure the travel patterns collected since the COVID-19 global pandemic are reflective of the 2019 Base Year.

1.3 Structure of this Report

The remainder of this report is set out as follows:

- Section 2 The need for Traffic Data;
- Section 3 Summary and review of Traffic Data;
- Section 4 Use of Available Traffic Models;
- Section 5 Final Volumetric Dataset;
- Section 6 Final Trip Dataset;
- Section 7 Journey Time Data;
- Section 8 Traffic Signal Data; and,
- Section 9 Summary.

2. The Need for Traffic Data

2.1 Overview of Data Requirements

For the purposes of the development of the Medway Transport Model, traffic data is primarily required to refine and improve the understanding of existing transport conditions across the borough, in particular those areas close to the planned development and in the wider area covered by the cordon model. It is therefore important that sufficient quantity and quality of data is available.

2.2 Use of Survey Data

A number of different types of data have been collected and collated as part of the model development process. The different types of data, a brief description of their source and uses are set out below in Table 2-1.

Table 2-1: Outline of Survey Data, Source and Uses

| Type of Data | Source of Data | Overview of Key Uses |
|-----------------------------------|--|---|
| Volumetric data (link) | Collection from permanent traffic counters, and bespoke Automated Traffic Count (ATC) and Manual Classified Count (MCC) surveys on the local | Establish baseline link volume conditions including identification of peak hours |
| | road network | Volumetric data for model calibration and validation |
| Vehicle classification data | Collected from new Manual Classified Count (MCC) surveys on the local road network | To provide data that is compatible with the vehicle types represented in the traffic model |
| | | Classified volume data for model calibration and validation by vehicle type |
| Journey time data | Teletrac Data (Formerly Trafficmaster), which contains global positioning system (GPS) derived journey times of vehicles. | Model validation of journey times along selected routes |
| Mobile phone network data | Obtained from Citi Logik mobile phone network data (MND), which provides observed movements at a Census Middle Super Output Area (MSOA) disaggregation. | To develop observed Origin- Destination trip matrices representing highway demand in the transport model |
| Permanent Count Surveys | National Highways WebTRIS data, provides link count information at key locations | Establish key trends as large dataset in permanent locations along the strategic road networks |

2.3 Use of Other Data

Other open source data was collected to inform model development. The different types of data and a brief description of their source and uses are set out below in Table 2-2.

Table 2-2: Outline of Other Data, Sources and Key Uses

| Type of Data | Source of Data | Overview of Key Uses |
|--|---|---|
| Residential and workplace population at Output Area (OA) level | 2011 UK Census, accessed via the Nomis data portal website | To identify zonal demographic data used when converting demand matrices from the Kent Transport Model zoning system to that of the Medway Transport Model. |

The application of the census dataset in the matrix development process is summarised in Section 6 of this report and will be explained in detail in the Local Model Validation Report. The application of the census datasets is summarised in Section 6 of this report while the application of the NTEM and RTF data is discussed in Section 6.3.

3. Summary and Review of Traffic Data

3.1 Existing Traffic Data

Existing traffic count data was available from long-term traffic monitoring and existing surveys collected for other Kent County Council (KCC) studies/projects. The sources of data were available in varying types of data collection and varying formats. They cover the three survey collection methods detailed in Table 3-1.

| Short Name | Long Name | Classified? | Link or Junction? | Time Periods Covered | Sample Size/Survey | | |
|---------------|--|------------------------|--------------------------------|-----------------------|-----------------------|--|------------------|
| | | | Surccion | | Granularity | | |
| ЈСИ МСС | Junction Manual Classified Turning Count | | Junction (turning count) | | Average of 1 day | | |
| LNK MCC | Link Manual Classified Count | Yes | Yes | Yes | | Different sites for different weeks, months and years | Average of 1 day |
| WebTRIS | National Highways WebTRIS Data | | Link | between 2016 and 2023 | 1 week or 2 weeks | | |
| АТС | Automatic Traffic Count | 2022-23 counts only | | | 1 week or 2 weeks | | |

Table 3-1: Types of Count Dataset Available

The various data collection methods outlined in Table 3-1 provide different levels of detail and different levels of reliability for traffic volumes and vehicle classifications. Each dataset has therefore been used for a different purpose in order to cumulatively increase the robustness of the data used in the development of the Medway Transport Model. The JCN and LNK MCC data have been used for vehicle classifications by quantifying the percentage of each vehicle type (Car, LGV and HGV) on a per road type basis. For flows on the Strategic Road Network (SRN), WebTRIS data has been used, this contains details on vehicle classifications by quantifying the percentage of each vehicle type on each link.

Traffic data is suitable for use when it satisfies a set of conditions. Most importantly, surveys should be:

- Sufficiently recent (i.e. any surveys undertaken prior to 2016 are considered outdated and not suitable for the development of the model);
- Of a good quality (i.e. survey data should be accurate, valid, and consistent); and
- Of a sufficient duration and sample size (i.e. ATC data should be collected for at least two consecutive weeks during neutral months according to best practice set out in TAG guidance. This means that a large enough sample size can be available in order to determine volume profiles and have an understanding of day-to-day variability).

3.1.1 Existing Automatic Traffic Counts (ATCs)

ATCs are counts where flows are compiled automatically without constant human supervision. This allows for longer counts which are collected continuously over a period of one or two weeks, providing a more reliable

estimate of average flow. The counts which are referred to as ATCs for the data in this model use two pneumatic tubes laid across the road to count traffic flows and to detect the direction in which the traffic is travelling. They can also count the number of axles on each vehicle, although there are limits to how accurate they are at this. ATCs are effective for counting total flows but are not reliable for providing vehicle type classifications.

ATCs can also produce inaccurate counts at locations where traffic is moving particularly slowly. The extent of this can be checked against classified link count data collected on days in which both are in use, and if necessary, a factor can be used to correct the ATC count.

Existing traffic count data is available from long-term traffic monitoring and existing surveys collected for other Kent County Council (KCC) studies/projects over the last six years (2016 to 2022), excluding data collected during the lockdowns associated with the COVID-19 global pandemic (data between March 2020 and May 2021 and November 2021 and January 2022) when travel patterns were not representative.

The location of all available existing ATC Medway-based data is shown below in Figure 3-1. A detailed table with the location and road ID of each existing site can be found in Appendix A.

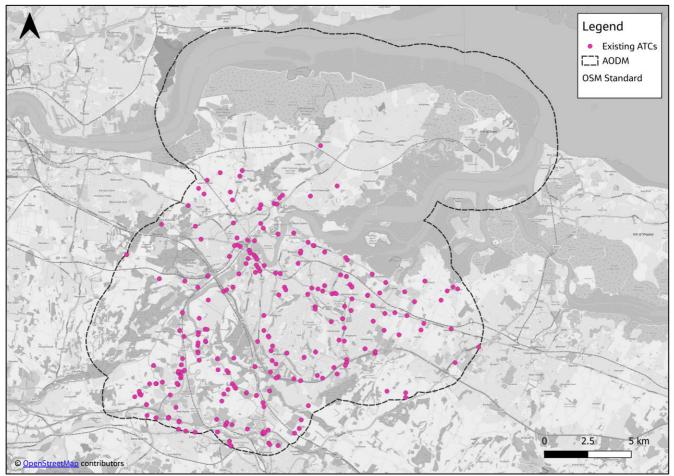


Figure 3-1: Existing ATC Data within the Medway AODM

3.1.2 Existing Manual Classified Counts (MCC)

MCCs are counts which are completed via video recording, usually over a period of one day, at locations which were considered particularly important for capturing key movements relevant to the study, such as the roundabout between the A289/Berwick Way and A228 /Frindsbury Hill. Enumeration from video is considered to be the most accurate, but also the most expensive method for collecting data on vehicle type. The classification percentages have been applied to the ATC counts (collected over a longer time period). Classified counts can come in the form of a Link Count (LNK) which counts vehicles travelling in each direction of a single road, or a Junction Count (JCT), which counts all turning movements at the junction.

The location of all available existing MCC Medway-based data is shown below in Figure 3-2. A detailed table with the location and road ID of each existing site can be found in Appendix A.

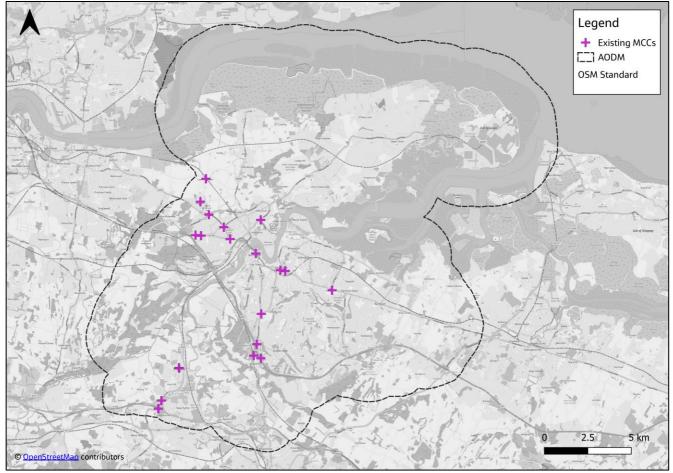


Figure 3-2: Existing MCC Data within the Medway AODM

The classification of vehicles provided by the MCCs is in Table 3-2.

| Table 3-2: MCC | Classification | Identifiers |
|----------------|----------------|-------------|
| TADLE J Z. MCC | Classification | iuentinei 3 |

| Vehicles | Classification Group | Length/Chassis Identifiers | Descriptive Identifiers |
|----------------------------|-------------------------|--|---|
| Cars | CAR | 2-axle 4-tyre Rigid chassis Trailers included | Three or four wheeled vehicles, Non-commercial pick-ups Cars with trailers & caravans Light ambulances & caravanettes Non-commercial 4x4s |
| LGV1 (car-based) | LGV1 | Under 1.5t 2-axle, 4-tyre Rigid chassis Trailers included | Car-size chassis Inc. Astra vans, Escort vans, etc Sign-written commercial pick-up vehicles |
| LGV2 (Transit-type) | LGV2 | 1.5t - 3.5t 2-axle, 4- or 6-tyre Rigid chassis Trailers included | Mercedes Sprinter, Ford Transit No reflective plates on rear |
| Medium goods | MGV | 3.5t - 7.5t 2-axle, 6-tyre Rigid chassis Trailers included | Twin tyres on rear axle No reflective plates on rear Single or no support bar between axles Rigid chassis, deep-dish rear wheels |
| Heavy goods rigid | HGV | Over 7.5t 2-axle, 3-axle 6 or more tyres Rigid chassis No trailers | Twin tyres on rear axle(s) Reflective plates on rear Double support bar between axles Rigid chassis only |
| Heavy goods articulated | - | Over 7.5t 4-axle or more Rigid chassis (plus trailer) Articulated chassis | Twin tyres on rear axles Reflective plates on rear Double support bar between axles Rigid or articulated chassis |
| Buses & coaches | PSV | 2-axle, 3-axle 6 or more tyres Rigid chassis | Single or double decker All coach-built passenger carriers All school & scheduled routes Inc. non-scheduled coaches |

3.2 Supplementary Data Collection

Following the review of existing count data locations and their proximity to key highway links and proposed developments, a number of additional count locations were recommended for supplementary data collection to enhance validation across Medway and to support the introduction of new screenlines. Data collection was therefore undertaken at 26 link count locations and at 17 additional junctions; these locations were agreed with MC, KCC and NH following a review of the proposed Local Plan allocations and results of the initial high-level assessment.

3.2.1 Additional Automatic Traffic Counts (ATCs)

Additional ATCs were collected for two weeks and were fully classified by vehicle type, in 60-minute intervals.

26 additional ATC surveys were conducted for the purpose of the model update. A full list with each of the 26 locations are summarised in Table 3-3 and their locations are shown in

Figure 3-3.

Table 3-3: Additional ATC Count Locations

| ID | Location |
|----|--|
| 1 | B2004 Medway Road near to Kyber Road |
| 2 | A228 Grain Road |
| 3 | A229 City Way between Onslow Road and The Fort |
| 4 | A230 Maidstone Road near to Southill Road |
| 5 | Maidstone Road between Woodpecker Glade and Drewery Drive |
| 6 | B2000 Bill Street Road between Randolph Cottages and Bingham Road |
| 7 | B2108 Hollywood Lane between Leigh Road and Greenfields Close |
| 8 | Ratcliffe Highway between Hall Road and Hoppers Lane |
| 9 | Oak Lane between Canterbury Lane and Chaffes Lane |
| 10 | B2097 Maidstone Road near to King's Rochester Sports Centre |
| 11 | A231 Brompton Road near Medway Park Leisure Centre |
| 12 | A231 Dock Road near Brompton Barracks |
| 13 | Barnsole Road between Coulman Street and Sturdee Avenue |
| 14 | Richmond Road between Chatsworth Road and Cornwall Road |
| 15 | Church Street between Holly Close and Christmas Street |
| 16 | Woodlands Road between Hazlemere Drive and Grange Road |
| 17 | A2 New Road Avenue between Manor Road and Railway Street |
| 18 | B2097 Maidstone Road between Hoopers Road and Watts Avenue |
| 19 | A289 Ito Way between Sovereign Boulevard and Beechings Way |
| 20 | A228 Peninsula Way between Roper's Lane and Bell's Lane |
| 21 | A231 Nelson Road between Borough Road and Queens Road |
| 22 | North Dane Way between Shawstead Road and Lordswood Lane |
| 23 | Walderslade Road between Bradfields Avenue West and King George Road |
| 24 | Princes Avenue between Downland Walk and Wren Way |
| 25 | Magpie Hall Road between Whyman Avenue and Shipwrights Avenue |
| 26 | Frindsbury Road between Florence Street and Grove Road |

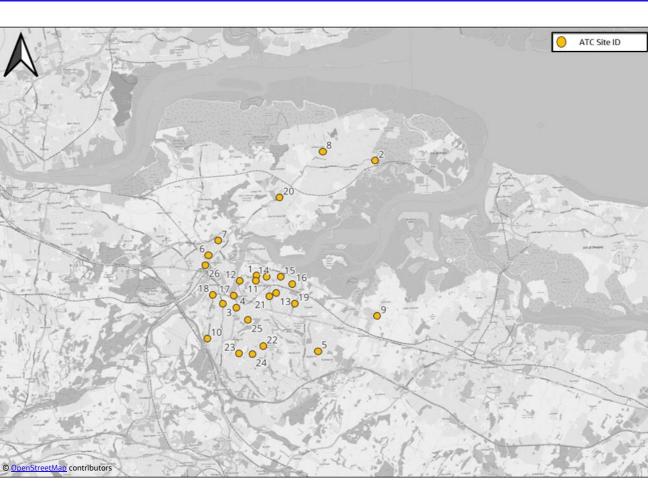


Figure 3-3: Additional ATCs in Medway

3.2.2 Additional Manual Classified Counts (MCC)

Fully classified turning counts were collected on a neutral day (Tuesday, Wednesday, or Thursday) within the ATC 2-week data collection period. MCCs were collected between the hours of 07:00-19:00 (12-hour period) using high-level video cameras attached to street furniture. The data was fully classified by vehicle type and split into 15-minute intervals.

In total, 17 additional MCCs surveys were conducted for the purpose of the Medway Transport Model development and local validation. A full list with each of the locations are summarised in Table 3-4 below and presented in Figure 3-4.

Jacobs

| ID | Location | Junction Type |
|----|---|-----------------------|
| 1 | Magpie Hill Road /New Road | Roundabout |
| 2 | Union Street / New Road/ Best Street | Signalised |
| 3 | Four Elms Roundabout | Roundabout |
| 4 | Grange Roundabout | Roundabout |
| 5 | Lower Rochester Road/ Hollywood Lane/ Cooling | Two Mini Roundabouts |
| | Road/ Brompton Farm Road Mini Roundabouts* | |
| 6 | M2/ A278 Roundabout | Roundabout |
| 7 | B2004 Medway Road / Medway Road | Signalised |
| 8 | A2 High Street/ Station Road | Signalised |
| 9 | Bowater Roundabout | Signalised Roundabout |
| 10 | A289 Hasted Road on/off slips** | Off slips/ on slips |
| 11 | Chatham Maritime Roundabout | Signalised Roundabout |
| 12 | A2 Watling Street/ Canterbury Street | Signalised |
| 13 | B2002 Station Road/ High Street | Signalised |
| 14 | A2 City Way/ A2 New Road/ Star Hill | Roundabout |
| 15 | M2 J2 Eastern Roundabout | Roundabout |
| 16 | M2 J2 Western Roundabout | Roundabout |
| 17 | Merrals Shaw Interchange | Roundabout |

*Assumes MCC captures movements at both roundabouts at this location **Assumes all movements in this locality at on/off slips are captured



Figure 3-4: Additional MCCs in Medway

3.3 Journey Time Information

Journey time data is used to check and compare the highway delays and travel times calculated by the model with observed data as part of the model validation process.

Journey time data for the Kent Transport Model and Medway Transport Model was sourced from the 2019 DfT Teletrac (previously Trafficmaster) data. This dataset is made available to local authorities and is based on data gathered using satellite navigation devices installed in vehicles. It specifies travel times for links in the Integrated Transport Network (ITN). Travel times along set routes have been collated by aggregating the times for each of the ITN links along the route. Google API journey time data has been used to verify the Teletrac data, further details of this can be found in the Medway Base Model Local Model Verification Report (November 2023).

4. Use of Available Traffic Models

4.1 Existing Traffic Models

As indicated, the Gravesham Transport Model cordon area was used as the basis for this work. The Gravesham Transport Model was developed by cordoning the KTM which included the following Local Authorities: Dartford, Gravesham, Swale, Sevenoaks, Tonbridge and Malling, Maidstone, and Medway. An Area of Detailed Modelling (AODM) has been defined, as displayed in Figure 1-1 in agreement with KCC and National Highways by applying an initial 2km buffer around the Medway district boundary and extending slightly to the south to include the M20 junctions; this was to ensure that it included major junctions beyond the boundary on the Strategic Road Network. Within the Area of Detailed Modelling, a full detailed network review will take place and will be described in detail within the Local Model Validation Report.

The prior matrices of the Gravesham Transport Model, with a base year of 2019, were used as the starting point for the base model enhancement to develop the Medway Transport Model. The Kent Transport Model was used as a basis for the demand of the Gravesham Transport Model due to its usage of mobile phone data. The prior matrices were obtained through the model cordon process by aggregating and disaggregating zones to match the boundaries of the Gravesham Transport Model. Output Areas boundaries were used in Medway where further zone disaggregation was needed in the AODM – this was primarily undertaken in areas close to significant planned or emerging growth.

4.2 Use of Existing Model Information

Following a review of the network and zoning system of the Medway Transport Model, it was established that additional information was required in the Area of Detailed Modelling in order to ensure that the updated model would be suitable for its intended purposes. The risks associated with using the existing model as a basis for the new model were also considered; highlighted in Table 4-1 below are the general risks associated with using previous models and the mitigation methods that have been put in place for this project.

| Risk | Mitigation |
|---|---|
| Parts of the network might be outdated | Modelled network will be updated with information on changes in the highway network since 2019, to be provided by Kent County Council/Medway Council |
| Errors in the model carried forward | The network coding will be checked in detail |
| Zoning system might not be suitable | Review the zoning system and assess its suitability for the purposes to which the new model will be used. Identified areas in proximity to the schemes which lack sufficient detail in the zoning system in these areas and split the zones to provide the required level of spatial detail. |
| Traffic demand not sufficiently representative of trips in an area of the Gravesham Transport Model to the detail required by the model's intended uses | Rather than try to 'adjust' the demand in the existing model, it was decided to use the demand from the Kent Transport Model as a starting point for the trip matrices of the new model. These utilised recent mobile network data from 2019. |
| Signalised junctions in Medway were not modelled in the Kent Transport Model or Gravesham Transport Model | Detailed datasheet for all signalised junctions within Medway have been provided and signal junction layouts in addition to phase/stage/timing information has been incorporated into the base model. |

Table 4-1: Risks associated with the Medway Transport Model and Mitigation Methods put in place

5. Final Volumetric Dataset

5.1 Final Traffic Count Dataset

Following data processing and screenline generation, there were 311 unique surveys identified for use in the model. Figure 5-2 shows all link count locations (identified by the purple colour) that will be included in the Medway Transport Model base year calibration and validation, including counts on the Strategic Road Network (SRN) which have been obtained via National Highways WebTris count database. A detailed table with the location and road ID of all traffic counts can be found in Appendix A.



Figure 5-1: Counts used within the Medway Transport Model

5.2 Data Quality, Checking and Consistency Checks

Data obtained from the existing surveys was subject to a number of initial quality checks before the data was issued. A series of further checks were then undertaken on the data set provided by the survey company, and any data anomalies identified by the survey company, for example as a result of faulty equipment, resulted in the exclusion of that data from the dataset and the extension of the survey programme. It was reported that weather conditions were generally fine during the survey periods and no weather-related issues were reported that may have resulted in a significant issue for the validity of any particular count data.

Inter- junction checks were carried out between any nearby sites of either the same type or different survey type (JTCs, ATCs). The inter-junction check files highlight any large differences between sites, and where differences are found, files are annotated with comments showing reasons for differences, e.g., an accident, so that the user of the count data has full knowledge of noted data issues and the reason for those issues.

In addition to the checks that were carried out by the survey company, further or repeat checks were carried out by reviewing profiles to check inconsistencies in flow patterns, for instance to identify if an inter-peak count is greater than the count for the AM and PM peak hours, and to review the tidality of the data in order to establish if any of the data is incorrectly labelled.

Moreover, all of the data collected between Friday and Sunday (inclusive) was removed from the analysis to provide a Monday to Thursday (i.e. representative weekday) dataset.

5.2.1 Consistency Checks

Based on the count data received, further consistency checks were undertaken on the dataset. Across the study area, locations were identified where a MCC and a corresponding link count, or two nearby link counts were available. The purpose of the MCC check was to confirm that the traffic volumes recorded by the MCC were representative of the average one/two-week link volumes recorded by the corresponding link count for the comparable location. The check for two nearby counts were undertaken in order to determine whether the counts are close, securing the accuracy of the counts. The results of this check are presented in Table 5-1.

The comparison for the tests covered the AM, and PM peak hours. For the large majority of all count comparisons, the difference between the MCCs and ATCs or close by ATCs counts, is less than 15% or within a level of difference which can be considered related to count accuracy and/or daily variation. Where counts are identified to compare outside of a 15% tolerance level, these counts have been investigated further as part of the model validation/calibration process and the final count data used in the model validation/calibration, and their observed values, will be presented in the LMVR.

Table 5-1: Road Data Consistency Checks

| Count 1 | Count 2 | Count 1 | Count 2 | Peak | Cou | nt 1 | Cou | Count 2 Direction 1 | | | Direction 2 | | | | | | |
|---------|---------|---------|---------|------|----------------|----------------|----------------|---------------------|---------|---------|----------------|---------|---------|----------------|-----|-----|-----|
| ID | ID | Туре | Туре | | Direction 1 | Direction 2 | Direction 1 | Direction 2 | Count 1 | Count 2 | %Change 1-2 | Count 1 | Count 2 | %Change 1-2 | | | |
| | | . – . | | AM | | | | | 470 | 406 | 14% | 333 | 338 | -2% | | | |
| 26 | 29 | ATC | MCC | PM | NB | SB | NB | SB | 455 | 393 | 14% | 322 | 327 | -2% | | | |
| | _ | | | AM | | | | | 1203 | 1127 | 6% | 1040 | 1115 | -7% | | | |
| 10037 | 9 | ATC | MCC | PM | NB | SB | NB | SB | 1187 | 1092 | 8% | 1057 | 1080 | -2% | | | |
| | | | | AM | | | | EB WB - | 1150 | 1260 | -10% | 1264 | 1383 | -9% | | | |
| 10881 | 13 | ATC | MCC | PM | EB | WB | EB | | 1369 | 1220 | 11% | 1161 | 1340 | -15% | | | |
| | _ | | | AM | | | | | | | | 594 | 597 | -1% | 617 | 630 | -2% |
| 10 | 5 | мсс | MCC | PM | NB | SB | NB | NB SB - | 575 | 578 | -1% | 598 | 610 | -2% | | | |
| | _ | | | AM | | 60 | | | 396 | 405 | -2% | 553 | 557 | -1% | | | |
| 28 | 7 | мсс | мсс | PM | NB | SB | NB | SB | 384 | 392 | -2% | 536 | 539 | -1% | | | |
| 20 | 24 | NGG | ATC | AM | ND | CD. | ND | C.D. | 501 | 470 | 6% | 347 | 333 | 4% | | | |
| 30 | 26 | MCC | ATC | PM | NB | SB | NB | SB | 485 | 455 | 6% | 336 | 322 | 4% | | | |
| 42 | 25 | NGG | NGG | AM | | | | | 1441 | 1420 | 1% | | | | | | |
| 13 | 25 | MCC | мсс | PM | WB | - | WB | - | 1396 | 1375 | 2% | | | | | | |
| 42420 | 40577 | 1166 | ATC | AM | 50 | | 50 | 14/0 | 710 | 766 | -8% | 873 | 911 | -4% | | | |
| 13138 | 10544 | MCC | ATC | PM | EB | WB | EB | WB | 846 | 883 | -4% | 746 | 866 | -16% | | | |
| 12121 | 12122 | NCC | MCC | AM | ND | CD. | ND | C D | 1236 | 1233 | 0% | 1781 | 1813 | -2% | | | |
| 13131 | 13133 | MCC | мсс | PM | NB | SB | NB SB | 2116 | 1897 | 10% | 1343 | 1278 | 5% | | | | |
| 42472 | 42472 | MCC | MCC | AM | FD | WD | 50 | WD. | 1849 | 1864 | -1% | 2470 | 2421 | 2% | | | |
| 13142 | 13143 | мсс | MCC | PM | EB | WB | EB | WB | 2237 | 2332 | -4% | 2102 | 2084 | 1% | | | |

6. Final Trip Dataset

6.1 Introduction

The Medway Transport Model development approach makes use of previous work on the development of the Kent Countywide Strategic Model; that model used mobile network data (MND) to formulate the highway demand and will form the basis of the demand for the model update. The 2019 Kent Transport Model prior matrices were used as the starting point for the updated Medway Transport Model matrices. Using the matrices provides analytical consistency with other local models currently being developed for KCC and removes duplication of work, ensuring best value is extracted from the time and money invested in the 2019 Countywide dataset and subsequent processing.

6.2 The Kent Transport Model and Use of Mobile Phone Data

The 2019 Kent Transport Model, which is used as the basis for the development of demand matrices for this model, made use of aggregated and anonymised mobile network data (MND) provided specifically for that study by Citi Logik. The approach to the development of the Kent base year demand matrices followed best practice and the recommendations set out in TAG Unit M2-2 Base Year Demand Matrix Development. It followed distinct stages which covered Planning, Data Assembly, Matrix Development and Matrix Refinements. The process is depicted in Figure 6-1, reproduced from TAG Unit M2-2, and each stage is summarised below.

Set out model objectives Spatial granularity Specify demand forecasting method P/A vs O/D Trips vs. Tours • Specify scale of demand changes All day vs. peak period Person vs. vehicle Understand existing data sources Planning Define matrix requirements Demand segments Existing demand matrices Define data requirements Tracking data Identify and collate existing data sources **Ongoing Verification / Validation** Sectoral data Collect new data Intercept surveys Household interview surveys Clean data Data Assembly • Zonal (Planning data, Land-use) Expand and verify Relative merits of different data types Identify and correct biases Synthetic matrices Processing, extrapolation, and checking Data fusion Combine data (establish relative weights / Matrix apply constraints) Development Refined matrices Refine processing assumptions Documentatio · Evidence-based adjustments · Demonstrate suitability Matrix Refinements

Figure 6-1 summarises the methodology followed for developing the Kent Countywide matrices:

Source: TAG

Figure 6-1: Summary of Matrix Building Process for the Kent Transport Model

The trip matrix development for the Kent Transport Model, including the processing of raw MND and its verification, is discussed in detail in the Medway Transport Model LMVR and its appendices. The following summarises the highway matrix development:

- Car matrices were derived from MND as a primary source, with infilling of short distance trips through synthesised data; and
- LGV and HGV matrices were initially derived from the South East Regional Transport Model (SERTM) prior matrices.

6.3 Conversion from Kent Countywide Zoning System using Census Data

The conversion of the prior matrices from the Kent Transport Model zone system to the Medway Transport Model zone system is undertaken through a review and application of 2011 Census data, against the boundaries of the two model zone systems. It is to be noted that the prior matrices from Kent Transport Model were used - this was because, in anticipation of having to undertake matrix estimation for the Medway Transport Model, it was important not to 'correct' already estimated matrices, thereby distorting the underlying trip patterns significantly.

The matrices from the Kent Transport Model zone system were aggregated and disaggregated to match the boundaries of the Medway Transport Model zone system. Where the level of network detail in Medway Transport Model is lower and zones larger, the Kent Transport demand was taken directly and simply aggregated to fit the Medway Transport Model zoning system. However, around the Hoo Peninsula and Gillingham, where the level of network detail is highest in the Medway Transport Model, there was a need to disaggregate the Kent Countywide matrices. The permanent residential population and workplace population, at Output Area (OA) level, was used to translate the demand matrices for all user classes from the Kent Countywide to the Medway Transport Model zone system. This was facilitated by both zone systems being derived from OA boundaries, so there was a consistent spatial basis for the conversion. The Kent Countywide zoning system was based on MSOA boundaries, and therefore a selected number of zones were split by Output Area (OA) to form the new Medway Transport Model zone system.

The following table shows the census data sets that were used to control the disaggregation of each set of production attraction matrices:

| User Vehicle | | AM Peak (| DD Matrices | PM Peak | OD Matrices |
|---------------|------|---------------------------|-------------------------|-------------------------|---------------------------|
| Class (UC) | Туре | Origins | Destinations | Origins | Destinations |
| UC1-UC3 | Car | Residential Population | Workplace Population | Workplace Population | Residential Population |
| UC4 | LGV | Workplace Population | Workplace Population | Workplace Population | Workplace Population |
| UC5 | HGV | Workplace Population | Workplace Population | Workplace Population | Workplace Population |

Table 6-1: Conversion of Origin-Destination Matrices

Home-based matrices were disaggregated based on the residential population census data for the origin trip end and workplace population dataset for the destination trip end. For non-home-based matrices, the matrix disaggregation for both origin and destination trip end was undertaken using the workplace population dataset.

For LGV and HGV matrices, the disaggregation of matrices was controlled by the workplace population dataset. For goods vehicles, both the origin and destination of a trip are likely to be linked to an employment site.

7. Journey Time Data

This section describes the journey time data that has been produced and analysed for the purposes of establishing baseline conditions to inform the transport model development in Medway. The journey time data is used to check and compare the delays and travel times calculated by the model as part of a model validation process.

A journey time dataset for Kent was purchased directly from Teletrac as the 2019 data set was not yet available from the DfT, which is the usual source. The data is collected from satellite navigation devices installed in cars and other vehicles. It details travel times for links defined within the Integrated Transport Network (ITN). Travel times along set routes have been collated by aggregating the Teletrac observed times for each of the ITN links along the route. The journey time data for use in the Medway Transport Model reflects Average Weekday Traffic (AWT) using Monday to Thursday data for neutral months from March 2019 to November 2019, excluding summer months and public holidays. The data was extracted for the modelled time periods. Data for cars and LGVs only were used.

7.1 Existing Traffic Performance

With the Teletrac data collated, it is possible to display observed traffic speeds as a percentage of the observed free flow speed. These maps therefore show congestion on the road network, details of the pattern and scale of traffic delay, and can be compared with results during the model calibration process in order to check locations experiencing significant modelled delays. Maps using this data have been produced for the AM (08:00 - 09:00) and PM (17:00 - 18:00) peak hours for the Medway area in Figure 7-1 and Figure 7-2:

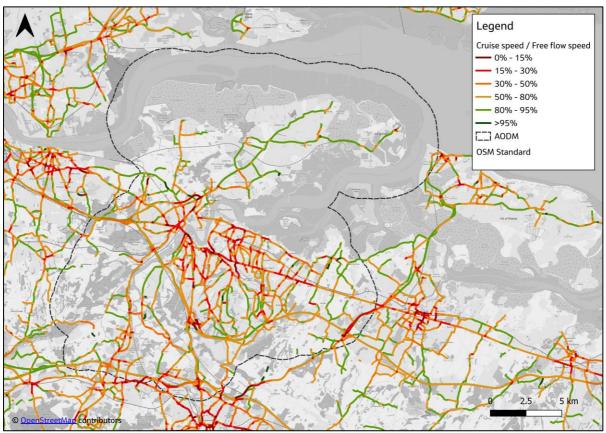


Figure 7-1: Medway Existing Traffic Delays (AM Peak, 08:00 – 09:00)

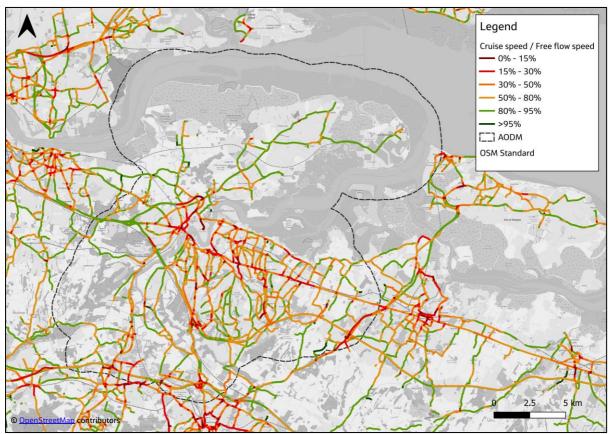


Figure 7-2: Medway Existing Traffic Delays (PM Peak, 17:00 – 18:00)

7.2 Journey Time Routes

The Teletrac data was collated and processed to form journey time routes specified for the Medway Transport Model validation process. These journey time validation routes have been chosen considering the guidance set out in TAG Unit M3-1 section 4.3.3. That is, ensuring that each route is neither excessively long (greater than 15 km) nor excessively short (less than 3 km) and that they should not take longer to travel than about 40 minutes so as to fit comfortably within the modelled peak hour.

A total of 12 bi-directional routes, have been selected for the Medway Transport Model and are shown in Figure 7-3. These routes have been defined to cover key strategic and local routes in and throughout Medway district, including town centres such as Rochester, Gillingham and Hoo.

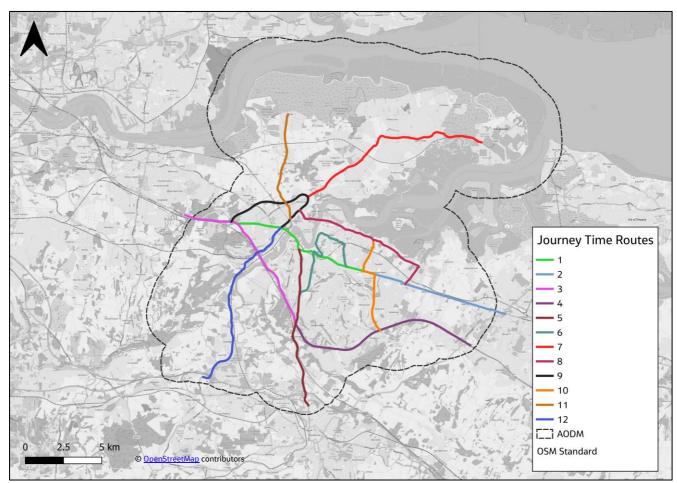


Figure 7-3: Journey Time Validation Routes in the Medway Transport Model

7.3 Existing Journey Time Conditions

The observed time for each peak hour for all journey time routes, as calculated from the Teletrac observed data are shown in Table 7-1.

| Table 7-1: Teletrac | Avorage Oh | convod lourno | Timor |
|-----------------------|------------|---------------|----------|
| Iddle / - I. Telelide | Average OD | serveu Journe | v rinnes |
| | | | |

| Route | Description | Direction | Length | Observed time [min:sec] | | |
|-------|---|-----------|--------|-------------------------|-------|--|
| No. | | | (km) | AM | PM | |
| 1 | A2 Watling Street $ ightarrow$ A2 Sovereign Boulevard | EB | 9.14 | 22:04 | 23:06 | |
| _ | A2 Sovereign Boulevard $ ightarrow$ A2 Watling Street | WB | 9.21 | 21:49 | 20:23 | |
| 2 | A2 Sovereign Boulevard → A249 Maidstone Raod | EB | 9.57 | 17:10 | 17:30 | |
| _ | A249 Maidstone Road → A2 Sovereign Boulevard | WB | 9.64 | 19:16 | 17:11 | |
| 3 | A2 Watling Street \rightarrow A229 Maidstone Road | SB | 10.99 | 05:48 | 05:43 | |
| _ | A229 Maidstone Road \rightarrow A2 Watling Street | NB | 10.96 | 05:46 | 05:31 | |
| 4 | A229 Maidstone Road → Stockbury Flyover | EB | 12.03 | 06:33 | 07:26 | |
| | Stockbury Flyover → A229 Maidstone Road | WB | 12.64 | 07:08 | 06:53 | |
| 5 | A229 City Way → A229 Royal Engineers Road | SB | 10.77 | 11:29 | 13:25 | |
| _ | A229 Royal Engineers Road → A229 City Way | NB | 10.77 | 12:42 | 14:39 | |
| 6 | A229 Maidstone Road → Canterbury Street | EB | 9.26 | 19:17 | 18:39 | |
| _ | Canterbury Street → A229 Maidstone Road | WB | 9.24 | 19:09 | 17:21 | |
| 7 | A228 Four Elms Hill → B2001 Grain Road | EB | 13.30 | 12:38 | 12:07 | |
| _ | B2001 Grain Road → A228 Four Elms Hill | WB | 13.20 | 13:18 | 12:21 | |
| 8 | A289 Berwick Way → B2004 Station Road | EB | 10.35 | 16:05 | 17:04 | |
| — | B2004 Station Road → A289 Berwick Way | WB | 10.43 | 16:08 | 16:41 | |
| 9 | M2 Three Crutches \rightarrow A228 Gun Lane | EB | 8.00 | 09:40 | 10:52 | |
| _ | A228 Gun Lane \rightarrow M2 Three Crutches | WB | 7.92 | 08:55 | 08:15 | |
| 10 | A289 Yokosuka Way → A278 Hoath Way | SB | 6.70 | 07:57 | 07:15 | |
| _ | A278 Hoath Way → A289 Yokosuka Way | NB | 6.76 | 07:28 | 07:50 | |
| 11 | B2000 Church Street → Bill Street Road | SB | 7.18 | 10:33 | 10:04 | |
| _ | Bill Street Road → B2000 Church Street | NB | 7.18 | 10:48 | 10:36 | |
| 12 | A228 Cuxton Road → A228 Ashton Way | SB | 13.15 | 17:52 | 19:16 | |
| _ | A228 Ashton Way → A228 Cuxton Road | NB | 13.22 | 18:30 | 17:06 | |

7.4 Summary of Journey Time Data

Upon reviewing journey time data along these routes, it was found that overall, there was no significant difference between AM/PM peaks. The routes had less than 2 minutes difference between AM and PM.

8. Traffic Signal Data

8.1 Junction Signal Timings

As part of the Kent Transport Model, which had a base year of 2019, signal timings were coded in the model based on data collected from local authorities. , The latest signal controller information was obtained from KCC and input into the network for signalised junctions, to help calibrate the network. Due to the variability in use of pedestrian crossings on ground, only signal groups with highway phasing have been included. The locations of these signalised junctions within the Medway AODM are shown in Figure 8-1.

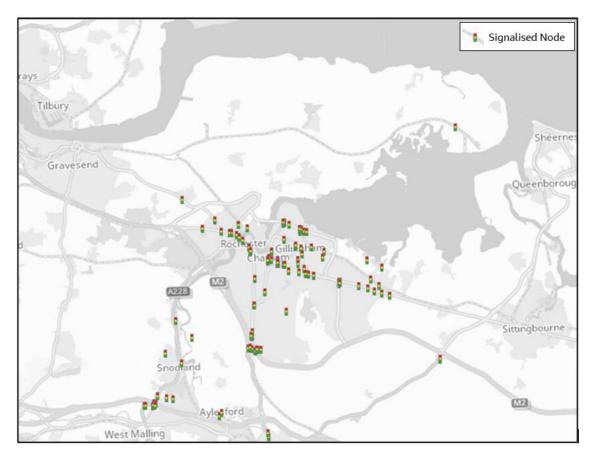


Figure 8-1: Signalised junctions within Medway AODM

An example of the coding of a signalised junction in the model is illustrated in Figure 8-2, where the actual junction is shown alongside the signalised junction modelled coding for where London Road meets Maidstone Road.

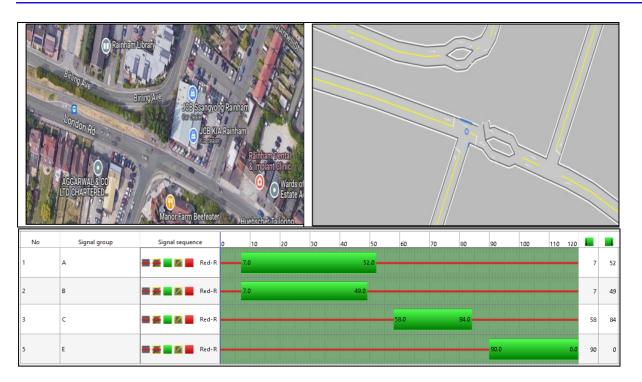


Figure 8-2: Actual Junction and the Equivalent Modelled Signalised Junction

8.2 Level Crossing Timings

Level crossings were coded into the model as a signalised junction to represent the delays caused by traffic stopping to let trains cross the railway. These delays have been modelled with a single phase/ signal group and the green time has been determined by the number of trains per hour at that location (information provided by timetables).

These are usually coded using two stages where traffic enters all-red phase to represent trains crossing the railway. An example of a level crossing junction is illustrated in Figure 8-3, which shows the junction in Woodlands Road alongside the modelled junction.





Figure 8-3: Actual Level Crossing and the Equivalent Modelled Level Crossing

9. Summary

9.1 Data Management

A substantial volume of traffic data from various sources has been collated for the purpose of the Medway Transport Model development.

Internal quality checks were applied to the data during the processing stage before its use was considered appropriate for model building purposes. This ensured consistency, reliability, and accuracy throughout the model building process, and for subsequent use in the processing of model outputs.

9.2 Summary of Adequacy of Data

This report has identified and described the traffic survey data collected and collated to assess and quantify baseline conditions and to develop the Medway Transport Model. The survey data has provided the necessary information for the model building process such as building trip matrices and for the calibration and validation of the model.

Each of the surveys undertaken has been described explaining its purpose, as well as showing the locations and individual survey dates. Analysis has been carried out for each of the survey types and the results are presented.

The traffic data for this study has been obtained from credible sources such as data collected and provided by Medway Council and Kent County Council, data from National Highways, Teletrac journey time data, and the 2011 UK Census. A check and review process has been undertaken for removing invalid or non-representative data before the cleaned data was taken forward for use in developing the model.

Further operational data such as traffic signal controller information has been collected in order to provide more detailed modelling to support and inform the development of the updated Medway Transport Model.

Overall, it is considered that the new and existing data collected as part of the updated Medway Transport Model development, forms a suitable and comprehensive database, sufficiently detailed to establish principal traffic movements and characteristics within the Medway Transport Model and the surrounding area for the model build.

Appendix A

| | Final Traffic (| Count Data | set | | |
|----------|--------------------------|------------|-----------|-------|--------|
| CalValID | Name | Year | Direction | х | Y |
| 9500 | B2004 Prince Arthur Road | 2023 | EB | 0.540 | 51.392 |
| 9509 | A228 Grain Road | 2023 | EB | 0.644 | 51.451 |
| 9516 | A229 City Way | 2023 | NB | 0.511 | 51.378 |
| 9517 | A230 Maidstone Road | 2023 | NB | 0.522 | 51.375 |
| 9518 | Maidstone Road | 2023 | NB | 0.590 | 51.351 |
| 9519 | B2000 Bill Street Road | 2023 | NB | 0.500 | 51.404 |
| 9520 | B2108 Hollywood Lane | 2023 | EB | 0.509 | 51.412 |
| 9521 | Ratcliffe Highway | 2023 | EB | 0.599 | 51.456 |
| 9522 | Oak Lane | 2023 | NB | 0.643 | 51.371 |
| 9501 | B2097 Maidstone Road | 2023 | NB | 0.497 | 51.360 |
| 9502 | A231 Brompton Road | 2023 | EB | 0.540 | 51.390 |
| 9503 | A231 Dock Road | 2023 | NB | 0.526 | 51.390 |
| 9504 | Barnsole Road | 2023 | NB | 0.556 | 51.383 |
| 9505 | Richmond Road | 2023 | NB | 0.549 | 51.392 |
| 9506 | Church Street | 2023 | NB | 0.561 | 51.391 |
| 9507 | Woodlands Road | 2023 | NB | 0.570 | 51.387 |
| 9508 | New Road Avenue | 2023 | EB | 0.520 | 51.382 |
| 9530 | B2097 Maidstone Road | 2023 | NB | 0.503 | 51.383 |
| 9510 | A231 Nelson Road | 2023 | NB | 0.551 | 51.381 |
| 9511 | N Dane Way | 2023 | NB | 0.544 | 51.355 |
| 9512 | Walderslade Road | 2023 | NB | 0.523 | 51.351 |
| 9513 | Princes Avenue | 2023 | NB | 0.535 | 51.351 |
| 9514 | Magpie Hall Road | 2023 | NB | 0.532 | 51.369 |
| 9515 | A228 Frindsbury Road | 2023 | EB | 0.497 | 51.399 |
| 9508 | New Road Avenue | 2023 | WB | 0.520 | 51.382 |
| 9531 | A229 Peninsula Way | 2023 | NB | | |
| 9600 | High Street | 2023 | WB | 0.534 | 51.379 |
| 9601 | A2 Chatham Hill | 2023 | EB | 0.534 | 51.379 |
| 9602 | A2 New Road | 2023 | WB | 0.534 | 51.379 |
| 9603 | Magpie Hall Road | 2023 | EB | 0.534 | 51.379 |
| 9604 | Union Street | 2023 | NB | 0.530 | 51.380 |
| 9605 | A2 New Road East | 2023 | EB | 0.530 | 51.379 |
| 9606 | A2 New Road West | 2023 | WB | 0.529 | 51.379 |
| 9607 | Four Elms Hill | 2023 | EB | 0.518 | 51.415 |
| 9608 | Wulfere Way | 2023 | SB | 0.517 | 51.413 |
| 9609 | Hoo Road | 2023 | WB | 0.516 | 51.414 |
| 9610 | A289 Hasted Road | 2023 | WB | 0.516 | 51.414 |
| 9611 | Gads Hill | 2023 | NB | 0.578 | 51.389 |
| 9612 | Lower Rainham Road East | 2023 | EB | 0.579 | 51.389 |
| 9613 | A289 Yokosuka Way | 2023 | SB | 0.578 | 51.389 |
| 9614 | Lower Rainham Road West | 2023 | WB | 0.578 | 51.389 |
| 9615 | Lower Rochester Road | 2023 | NB | 0.498 | 51.409 |
| 9616 | Hollywood Lane | 2023 | EB | 0.499 | 51.409 |
| 9617 | Cooling Road | 2023 | SB | 0.499 | 51.409 |
| 9618 | Brompton Farm Road | 2023 | WB | 0.498 | 51.409 |
| 1.010 | 2. ompton i uni nodu | 2025 | **0 | 0.400 | 51.405 |

| | Final Traffic C | ount Data | set | | |
|----------|----------------------------|-----------|-----------|-------|--------|
| CalValID | Name | Year | Direction | х | Y |
| 9619 | Heath Way | 2023 | NB | 0.584 | 51.337 |
| 9620 | M2 East | 2023 | WB | 0.586 | 51.336 |
| 9621 | M2 West | 2023 | EB | 0.583 | 51.336 |
| 9622 | Medway Road North | 2023 | NB | 0.549 | 51.396 |
| 9623 | Medway Road East | 2023 | EB | 0.549 | 51.395 |
| 9624 | Medway Road West | 2023 | EB | 0.548 | 51.395 |
| 9625 | Station Road | 2023 | NB | 0.609 | 51.364 |
| 9626 | High Street East | 2023 | EB | 0.609 | 51.363 |
| 9627 | Car Park Access | 2023 | SB | 0.608 | 51.363 |
| 9628 | High Street West | 2023 | WB | 0.608 | 51.363 |
| 9629 | Twydall Lane | 2023 | NB | 0.580 | 51.369 |
| 9630 | A2 London Road | 2023 | EB | 0.582 | 51.369 |
| 9631 | Courteney Road | 2023 | SB | 0.581 | 51.368 |
| 9632 | Hoath Way | 2023 | SB | 0.580 | 51.368 |
| 9633 | A2 Sovereign Blvd | 2023 | WB | 0.579 | 51.369 |
| 9634 | Lower Rochester Road North | 2023 | NB | 0.495 | 51.411 |
| 9635 | Lower Rochester Road South | 2023 | SB | 0.496 | 51.410 |
| 9636 | A289 Hasted Road | 2023 | WB | 0.495 | 51.411 |
| 9637 | Maritime Way North | 2023 | NB | 0.537 | 51.401 |
| 9638 | Pier Road East | 2023 | EB | 0.537 | 51.400 |
| 9639 | Maritime Way South | 2023 | SB | 0.536 | 51.399 |
| 9640 | Pier Road West | 2023 | WB | 0.535 | 51.400 |
| 9641 | Canterbury Street | 2023 | NB | 0.553 | 51.374 |
| 9642 | A2 Watling Street | 2023 | EB | 0.554 | 51.373 |
| 9643 | Rainham Road | 2023 | | 0.553 | 51.373 |
| 9644 | A2 Rainham Road | 2023 | WB | 0.553 | 51.373 |
| 9645 | Station Road | 2023 | NB | 0.497 | 51.395 |
| 9646 | High Street East | 2023 | EB | 0.497 | 51.395 |
| 9647 | Commercial Road | 2023 | WB | 0.496 | 51.395 |
| 9648 | High Street West | 2023 | EB | 0.497 | 51.395 |
| 9649 | A2 Star Hill | 2023 | NB | 0.509 | 51.383 |
| 9650 | A2 New Road | 2023 | EB | 0.509 | 51.383 |
| 9651 | A229 City Way | 2023 | SB | 0.509 | 51.383 |
| 9652 | M2 Off Slip | 2023 | SB | 0.468 | 51.385 |
| 9653 | M2 On Slip | 2023 | SB | 0.469 | 51.384 |
| 9654 | Unnamed Road | 2023 | WB | 0.468 | 51.384 |
| 9655 | M2 On Slip | 2023 | NB | 0.467 | 51.384 |
| 9656 | Unnamed Road East | 2023 | EB | 0.468 | 51.384 |
| 9657 | M2 On and Off Slip | 2023 | NB | 0.468 | 51.383 |
| 9658 | Unnamed Road South | 2023 | SB | 0.467 | 51.383 |
| 9659 | A228 North Downs Way | 2023 | EB | 0.469 | 51.381 |
| 9660 | , Sundridge Hill | 2023 | WB | 0.468 | 51.380 |
| 9688 | Sundridge Hill N | 2023 | EB | 0.468 | 51.380 |
| 9661 | A229 (N) | 2023 | NB | 0.514 | 51.301 |
| • | | | | | |

| | Final Traffic Co | unt Data | set | | |
|----------|---------------------------------|-----------|-----------|--------|--------|
| CalValID | Name | Year | Direction | х | Y |
| 9662 | M20 Onslip | 2023 | SB | 0.514 | 51.301 |
| 9663 | A229 (S) | 2023 | NB | 0.514 | 51.301 |
| 9664 | A229 On slip | 2023 | EB | 0.514 | 51.301 |
| 9665 | Car Park Access | 2023 | | 0.493 | 51.395 |
| 9666 | A2 Commercial Road East | 2023 | WB | 0.494 | 51.395 |
| 9667 | A228 Knight Road | 2023 | SB | 0.493 | 51.395 |
| 9668 | A2 Commercial Road West | 2023 | WB | 0.493 | 51.395 |
| 9669 | High Street West | 2023 | EB | 0.619 | 51.361 |
| 9670 | Moor Park Close | 2023 | SB | 0.619 | 51.361 |
| 9671 | Otterham Quay Lane | 2023 | NB | 0.621 | 51.361 |
| 9672 | A2 Moor Street | 2023 | WB | 0.621 | 51.361 |
| 9673 | Meresborough Road | 2023 | SB | 0.621 | 51.361 |
| 9674 | Car Park Access | 2023 | | 0.620 | 51.361 |
| 9675 | Gillingham Gate Road | 2023 | NB | 0.549 | 51.397 |
| 9676 | Car Park Access | 2023 | NB | 0.550 | 51.397 |
| 9677 | A289 Pier Road East | 2023 | EB | 0.550 | 51.397 |
| 9678 | Medway Road | 2023 | SB | 0.549 | 51.396 |
| 9679 | Purser Way | 2023 | WB | 0.549 | 51.396 |
| 9680 | A289 Pier Road West | 2023 | WB | 0.548 | 51.397 |
| 9681 | A228 Frindsbury Road North | 2023 | NB | 0.499 | 51.400 |
| 9682 | Station Road | 2023 | EB | 0.499 | 51.400 |
| 9683 | A228 Frindsbury Road South | 2023 | SB | 0.499 | 51.400 |
| 9684 | Wykeham Street | 2023 | WB | 0.495 | 51.398 |
| 9700 | A228 Frindsbury Road | 2023 | NB | 0.496 | 51.398 |
| 9686 | A207 North Street | 2023 | SB | 0.496 | 51.398 |
| 9687 | A228 Gun Lane | 2023 | EB | 0.495 | 51.398 |
| 9000 | Islingham Farm Road Medway | 2016 | NB | 0.509 | 51.416 |
| 9001 | Stoke Road, Medway Stoke Roa | 2016 | EB | 0.613 | 51.437 |
| 9002 | Mill Road South of Saunders Sti | 2016 | NB | 0.543 | 51.391 |
| 9003 | Mill Road South of Trinity Road | 2016 | NB | 0.543 | 51.392 |
| 9004 | 12726 Medway | 2016 | NB | -0.967 | 51.458 |
| 9005 | Brake Avenue | 2017 | EB | 0.516 | 51.348 |
| 9006 | Medway Tunnel | 2017 | EB | 0.536 | 51.400 |
| 9006 | Medway Tunnel | 2017 | WB | 0.536 | 51.400 |
| 9007 | Rochester Corporation Street | 2017 | SB | 0.506 | 51.389 |
| 9007 | Rochester Corporation Street | 2017 | NB | 0.506 | 51.389 |
| 9008 | Hawthorne Avenue | 2017 | NB | 0.593 | 51.372 |
| 9009 | A228 Cuxton A228 Sundridge H | 2017 | NB | 0.459 | 51.376 |
| 9110 | A228 Cuxton A228 Sundridge H | #N/A | NB | 0.458 | 51.375 |
| 9010 | A228 Cuxton A228 Rochester R | , 2017 | NB | 0.456 | 51.372 |
| 9111 | A228 Cuxton A228 Rochester R | #N/A | NB | 0.451 | 51.369 |
| 9011 | A228 Cuxton A228 Formby Roa | , 2017 | NB | 0.446 | 51.363 |
| 9012 | Maritime Way | 2017 | NB | 0.537 | 51.401 |
| 9013 | Hempstead Road, Medway | 2017 | EB | 0.578 | 51.357 |
| | | _01/ | | 0.070 | 21.007 |

| | Final Traffic Co | unt Data | set | | |
|----------|---------------------------------|----------|-----------|-------|--------|
| CalValID | Name | Year | Direction | х | Y |
| 9014 | Main Road, Hoo Main Road | 2017 | EB | 0.557 | 51.421 |
| 9015 | Robin Hood Lane | 2017 | NB | 0.525 | 51.339 |
| 9015 | Robin Hood Lane, Walderslade | 2017 | NB | 0.525 | 51.339 |
| 9016 | Robin Hood Lane, Walderslade | 2017 | NB | 0.524 | 51.338 |
| 9017 | our Elms Hill, Chattenden Main | 2018 | EB | 0.527 | 51.418 |
| 9017 | our Elms Hill, Chattenden Main | 2018 | WB | 0.528 | 51.418 |
| 9018 | Meresborough Road Meresbor | 2018 | NB | 0.611 | 51.347 |
| 9019 | Meresborough Road Meresbor | 2018 | NB | 0.608 | 51.344 |
| 9020 | A289 Gillingham Gate, Chathan | 2018 | EB | 0.550 | 51.396 |
| 9021 | A228, Rochester A228 Rocheste | 2018 | NB | 0.443 | 51.355 |
| 9022 | Rochester, Kent Borstal Street | 2018 | EB | 0.485 | 51.373 |
| 9023 | Rochester, Kent Esplanade | 2018 | NB | 0.492 | 51.380 |
| 9024 | Rochester, Kent Esplanade (Tu | 2018 | NB | 0.498 | 51.387 |
| 9025 | Medway Fenn Street, Rocheste | 2018 | NB | 0.587 | 51.450 |
| 9026 | Medway Avery Way, Rochester | 2018 | NB | 0.647 | 51.472 |
| 9027 | Medway Doust Way, Rochester | 2018 | NB | 0.513 | 51.385 |
| 9028 | Medway Grange Road, Rochest | 2018 | EB | 0.499 | 51.398 |
| 9029 | Medway Christmas Street, Gillii | 2018 | EB | 0.561 | 51.392 |
| 9030 | Medway King Street, Wainscott | 2018 | EB | 0.506 | 51.384 |
| 9031 | Medway Higham Road, Roches | 2018 | EB | 0.509 | 51.414 |
| 9032 | Medway Lower Rainham Road, | 2018 | EB | 0.588 | 51.386 |
| 9033 | Medway Palmerston Road, Cha | 2018 | NB | 0.525 | 51.370 |
| 9034 | Medway Symons Avenue, Chat | 2018 | NB | 0.531 | 51.372 |
| 9035 | Medway Glencoe Road, Chatha | 2018 | NB | 0.530 | 51.374 |
| 9036 | Lonsdale Drive, Rainham Lonsd | 2019 | NB | 0.604 | 51.357 |
| 9037 | Hempstead Valley Drive Hemps | 2019 | NB | 0.574 | 51.344 |
| 9038 | Rochester Avenue | 2019 | EB | 0.505 | 51.381 |
| 9039 | Lambourn Way | 2019 | NB | 0.546 | 51.337 |
| 9040 | King George Road, Walderslade | 2019 | EB | 0.514 | 51.343 |
| 9041 | York Avenue, Walderslade | 2019 | NB | 0.518 | 51.342 |
| 9042 | Chestnut Avenue, Walderslade | 2019 | EB | 0.517 | 51.343 |
| 9043 | First Avenue, Walderslade | 2019 | EB | 0.563 | 51.374 |
| 9044 | Medway Dargets Road, Walder | 2019 | NB | 0.533 | 51.339 |
| 9045 | Medway Capstone Road, Walde | 2019 | NB | 0.559 | 51.357 |
| 9046 | Medway Durham Road, Rainha | 2019 | EB | 0.588 | 51.356 |
| 9047 | Medway Edwin Road | 2019 | NB | 0.585 | 51.362 |
| 9048 | Medway Tunnel Medway Tunn | 2019 | WB | 0.519 | 51.401 |
| 9048 | Medway Tunnel Medway Tunn | 2019 | EB | 0.519 | 51.401 |
| 9049 | Eastcourt Lane, Medway Eastco | 2019 | NB | 0.578 | 51.373 |
| 9050 | Pear Tree Lane, Hempstead Pea | 2019 | NB | 0.560 | 51.360 |
| 9051 | Pear Tree Lane, Hempstead Pea | 2019 | NB | 0.562 | 51.358 |
| 9052 | Halling, Medway High Street | 2013 | NB | 0.447 | 51.338 |
| 9113 | Halling, Medway High Street | #N/A | NB | 0.447 | 51.348 |
| 9053 | Deanwood Drive, Medway Dea | 2020 | NB | 0.585 | 51.340 |
| 1.000 | Dealiwood Drive, Medway Dea | 2020 | ND | 0.000 | 51.557 |

| | Final Traffic Co | unt Data | set | | |
|----------|----------------------------------|----------|-----------|-------|--------|
| CalValID | Name | Year | Direction | х | Y |
| 9053 | Deanwood Drive, Medway Dea | 2020 | EB | 0.585 | 51.337 |
| 9054 | Medway Berengrave Road | 2020 | NB | 0.608 | 51.371 |
| 9055 | Medway Station Road | 2020 | NB | 0.618 | 51.371 |
| 9056 | Medway Brompton Farm Road | 2020 | EB | 0.495 | 51.409 |
| 9057 | Hempstead Road, Gillingham H | 2021 | NB | 0.578 | 51.357 |
| 9058 | Borstral Street, Rochester Borst | 2021 | EB | 0.493 | 51.378 |
| 9059 | Gillingham, Medway Marlboroເ | 2021 | NB | 0.541 | 51.387 |
| 9060 | Gillingham, Medway Bloors Lar | 2021 | NB | 0.597 | 51.368 |
| 9061 | Strood, Medway Bryant Road | 2022 | NB | 0.489 | 51.399 |
| 9062 | Strood, Medway Gordon Road | 2022 | NB | 0.489 | 51.399 |
| 9063 | Medway Berber Road | 2022 | EB | 0.493 | 51.401 |
| 9064 | Medway Weston Road | 2022 | NB | 0.489 | 51.398 |
| 9065 | Medway Jersey Road | 2022 | NB | 0.487 | 51.400 |
| 9066 | Brompton Lane | 2022 | NB | 0.489 | 51.408 |
| 9066 | Medway Brompton Lane | 2022 | NB | 0.489 | 51.408 |
| 9068 | Montford Road | 2022 | NB | 0.491 | 51.399 |
| 9069 | Kitchener Road | 2022 | NB | 0.493 | 51.401 |
| 9070 | Glanville Road | 2022 | NB | 0.492 | 51.398 |
| 9071 | Medway Riverside | 2022 | WB | 0.502 | 51.396 |
| 9072 | Riverside, Strood Riverside | 2022 | WB | 0.502 | 51.396 |
| 9073 | Main Road | 2022 | EB | 0.533 | 51.419 |
| 9073 | Main Road | 2022 | WB | 0.533 | 51.419 |
| 9074 | Wigmore Road | 2022 | NB | 0.579 | 51.343 |
| 9075 | Edwin Road, Rainham Edwin Rc | 2022 | NB | 0.585 | 51.367 |
| 9112 | Eastcourt Lane, Medway Eastco | #N/A | NB | 0.581 | 51.380 |
| 9076 | Chatham, Medway Cuxton Roa | 2023 | NB | 0.484 | 51.390 |
| 9077 | Chatham, Medway Horsted Wa | 2023 | NB | 0.512 | 51.359 |
| 9078 | Chatham, Medway Beacon Hill | 2023 | NB | 0.549 | 51.370 |
| 9079 | Esplanade, Rochester Esplanad | 2023 | NB | 0.502 | 51.392 |
| 9080 | Deanwood Drive, Gillingham De | 2023 | NB | 0.599 | 51.346 |
| 9081 | Best Street (W) | 2016 | EB | 0.525 | 51.381 |
| 9081 | Richard Street | 2016 | EB | 0.525 | 51.381 |
| 9081 | Best Street (E) | 2016 | EB | 0.525 | 51.381 |
| 9084 | Wainscott Road | 2017 | NB | 0.510 | 51.407 |
| 9084 | Frindsbury Hill | 2017 | NB | 0.510 | 51.407 |
| 9084 | Berwick Way | 2017 | NB | 0.510 | 51.407 |
| 9084 | , Frindsbury Hill S | 2017 | NB | 0.510 | 51.407 |
| 9084 | Beneden Road | 2017 | NB | 0.510 | 51.407 |
| 9089 | Bloors Lane | 2017 | SB | 0.595 | 51.366 |
| 9089 | London Road (E) | 2017 | SB | 0.595 | 51.366 |
| 9089 | London Road (W) | 2017 | SB | 0.595 | 51.366 |
| 9092 | High Street (N) | 2021 | SB | 0.447 | 51.345 |
| 9093 | Howlsmere Close | 2021 | WB | 0.447 | 51.345 |
| 9094 | High Street (S) | 2021 | NB | 0.447 | 51.345 |
| | | 2021 | | 0.777 | 51.575 |

| | Final Traffic Co | unt Data | set | | |
|----------|------------------------------------|----------|-----------|-------|--------|
| CalValID | Name | Year | Direction | х | Y |
| 9095 | Kent Road (N) | 2021 | SB | 0.444 | 51.354 |
| 9096 | Kent Road (S) | 2021 | NB | 0.443 | 51.353 |
| 9097 | Vicarage Road | 2021 | EB | 0.443 | 51.353 |
| 9098 | Corporation Road (N) | 2022 | SB | 0.504 | 51.391 |
| 9099 | Gas House Road | 2022 | SB | 0.504 | 51.391 |
| 9100 | Corporation Road (S) | 2022 | SB | 0.504 | 51.391 |
| 9101 | Northgate | 2022 | SB | 0.504 | 51.391 |
| 12579 | Mill Lane | 2022 | SB | 0.645 | 51.355 |
| 12579 | Mill Lane | 2022 | NB | 0.645 | 51.355 |
| 12770 | Yelstead Road | 2022 | SB | 0.614 | 51.320 |
| 12770 | Yelstead Road | 2022 | NB | 0.614 | 51.320 |
| 12771 | South Street Road (Site 1) | 2022 | EB | 0.630 | 51.319 |
| 12771 | South Street Road (Site 1) | 2022 | WB | 0.630 | 51.319 |
| 12963 | Chalky Road | 2022 | EB | 0.630 | 51.317 |
| 12963 | Chalky Road | 2022 | WB | 0.630 | 51.317 |
| 12885 | Chestnut Street | 2022 | EB | 0.690 | 51.343 |
| 12885 | Chestnut Street | 2022 | WB | 0.690 | 51.343 |
| 12886 | Maidstone Road, Borden | 2022 | NB | 0.670 | 51.335 |
| 12886 | Maidstone Road, Borden | 2022 | SB | 0.670 | 51.335 |
| 12719 | Church Street | 2022 | EB | 0.475 | 51.331 |
| 12719 | Church Street | 2022 | WB | 0.475 | 51.331 |
| 12720 | New Court Road | 2022 | EB | | |
| 12720 | New Court Road | 2022 | WB | | |
| 12722 | Rochester Road South | 2022 | NB | 0.488 | 51.337 |
| 12722 | Rochester Road South | 2022 | SB | 0.488 | 51.337 |
| 12945 | Tunbury Avenue | 2022 | NB | 0.523 | 51.334 |
| 12945 | Tunbury Avenue | 2022 | SB | 0.523 | 51.334 |
| 12721 | 0 | 2022 | NB | 0.482 | 51.331 |
| 12721 | 0 | 2022 | SB | 0.482 | 51.331 |
| 12921 | High Street, Wouldham | 2022 | NB | 0.458 | 51.349 |
| 12921 | High Street, Wouldham | 2022 | SB | 0.458 | 51.349 |
| 12922 | Knowle Road | 2022 | EB | 0.464 | 51.346 |
| 12922 | Knowle Road | 2022 | WB | 0.464 | 51.346 |
| 12924 | School Lane | 2022 | EB | 0.466 | 51.352 |
| 12924 | School Lane | 2022 | WB | 0.466 | 51.352 |
| 12925 | Hall RoadSouth of Knowle Roac | 2022 | NB | 0.458 | 51.345 |
| 12925 | Hall RoadSouth of Knowle Roac | 2022 | SB | 0.458 | 51.345 |
| 13112 | Castle Way South of Park Road | 2022 | SB | 0.423 | 51.306 |
| 13112 | Castle Way South of Park Road | 2022 | NB | 0.423 | 51.306 |
| 13113 | , Lunsford Lane North of Willow | 2022 | SB | 0.434 | 51.306 |
| 13113 | Lunsford Lane North of Willow | 2022 | NB | 0.434 | 51.306 |
| 13114 | Leybourne Way West of Tesco | 2022 | EB | 0.440 | 51.312 |
| 13114 | Leybourne Way West of Tesco | 2022 | WB | 0.440 | 51.312 |
| 13115 | New Hythe Lane | 2022 | SB | 0.442 | 51.304 |
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| | Final Traffic Co | unt Data | set | | |
|----------|--------------------------------|----------|-----------|-------|--------|
| CalValID | Name | Year | Direction | х | Y |
| 13115 | New Hythe Lane | 2022 | NB | 0.442 | 51.304 |
| 13116 | Hall Road north of The Avenue | 2022 | SB | 0.474 | 51.299 |
| 13116 | Hall Road north of The Avenue | 2022 | NB | 0.474 | 51.299 |
| 13118 | Snodland Road (Week 1) | 2022 | WB | 0.423 | 51.324 |
| 13118 | Snodland Road (Week 1) | 2022 | EB | 0.423 | 51.324 |
| 13119 | Snodland Road (Week 2) | 2022 | WB | 0.423 | 51.324 |
| 13119 | Snodland Road (Week 2) | 2022 | EB | 0.423 | 51.324 |
| 13120 | Paddlesworth Road | 2022 | EB | 0.421 | 51.333 |
| 13120 | Paddlesworth Road | 2022 | WB | 0.421 | 51.333 |
| 13121 | Maidstone Road North of Barlir | 2022 | NB | 0.505 | 51.333 |
| 13121 | Maidstone Road North of Barlir | 2022 | SB | 0.505 | 51.333 |
| 13122 | A228 Ashton Way | 2022 | SB | 0.416 | 51.307 |
| 13122 | A228 Ashton Way | 2022 | NB | 0.416 | 51.307 |
| 13131 | A228 Malling Road | 2022 | SB | 0.428 | 51.313 |
| 13131 | A228 Malling Road | 2022 | NB | 0.428 | 51.313 |
| 131311 | A228 Castle Way | 2022 | NB | | |
| 131311 | A228 Castle Way | 2022 | SB | | |
| 13131 | Leybourne Way | 2022 | WB | | |
| 13131 | Leybourne Way | 2022 | EB | | |
| 131331 | A228 Castle Way | 2022 | SB | | |
| 131331 | A228 Castle Way | 2022 | NB | | |
| 131332 | M20 Offslip EB | 2022 | EB | | |
| 131332 | M20 Onslip WB | 2022 | WB | | |
| 131334 | M20 Onslip SB | 2022 | SB | | |
| 131334 | M20 Offslip NB | 2022 | NB | | |
| 131333 | A228 WB | 2022 | SB | | |
| 131333 | A228 EB | 2022 | NB | | |
| 13138 | Station Road | 2022 | SB | | |
| 13138 | Station Road | 2022 | NB | | |
| 131381 | A20 London Road (E) | 2022 | WB | | |
| 131381 | A20 London Road (E) | 2022 | EB | | |
| 13138 | A20 London Road (W) | 2022 | EB | | |
| 13138 | A20 London Road (W) | 2022 | WB | | |
| 131381 | New Road North of Medina Roa | 2022 | NB | | |
| 131381 | New Road North of Medina Roa | 2022 | SN | | |
| 131421 | A229 Onslip SB | 2022 | SB | | |
| 131421 | A229 offslip NB | 2022 | NB | | |
| 131423 | A229 offslip SB | 2022 | SB | | |
| 131423 | A229 Onslip NB | 2022 | NB | | |
| 131422 | A229 | 2022 | EB | | |
| 131422 | A229 | 2022 | WB | | |
| 13143 | A229 | 2022 | EB | 0.510 | 51.335 |
| 13143 | A229 | 2022 | WB | 0.510 | 51.335 |
| 13143 | M2 Offslip SB | 2022 | SB | | |
| 1-01/0 | 0.100 00 | | 55 | | I |

| Final Traffic Count Dataset | | | | |
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