

CONNECTING SHEFFIELD

Better travel choices

Journey Times – Abbeydale
Road and Ecclesall Road
Section 7 of 9

Nether Edge Active Neighbourhood

Traffic Monitoring Data



Journey times: Abbeydale Road / Ecclesall Road - Introduction

Alongside the traffic monitoring surveys, we also looked at journey time data sourced by The Flow, who specialise in black-box telematics data, to better understand motor vehicle movement in the Nether Edge area. These surveys may be useful in supporting conclusions drawn from the wider traffic monitoring surveys.

Journey time data was taken from black-box equipped motor vehicles as they travelled along the route, before and after the Nether Edge Active Neighbourhood measures were put in place.

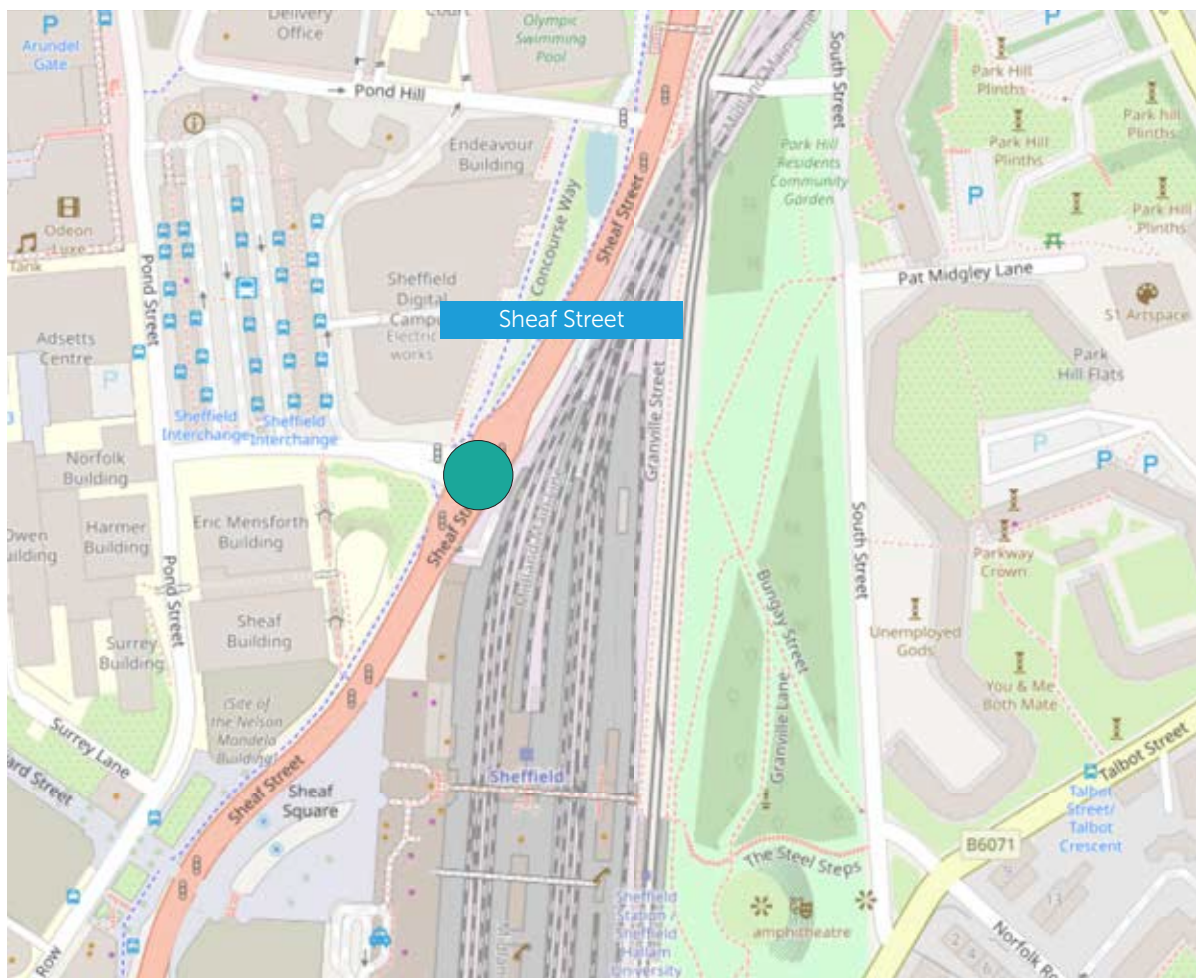
Data was gathered over a period of 2-3 months on two separate occasions before and after the measures were put in place. The data gathering prior to the Active Neighbourhood coming into effect took place in September-November 2021 and March-April 2022, while the data gathering after the Active Neighbourhood changes came into effect took place in September-November 2022, and March-April 2023.

Journey time data is based on a sample of journeys along the route, presented in the maps below. As well as these average journey times, we also looked at the 10th and 90th percentile journey times from the sample. These have been defined as the 10% shortest journeys and 10% longest journeys for simplicity.

This is document 7 of 9, and provides an overview of the changes in journey times for motor vehicles travelling along Abbeydale Road and Ecclesall Road. Each route will be split into two slides, the first showing the map of the route, and the second showing the data in a table.

These documents have been created to illustrate changes in travel before and after the Nether Edge Active Neighbourhood scheme came into effect. The full committee report on the scheme will provide context to the data presented in this document, and how it informs the recommendations on the future of the scheme.

Change in motor vehicle count at city control site



We counted the number of motor vehicles passing through Sheaf Street before and after the implementation of the Active Neighbourhood.

Changes in motor vehicle traffic at a key central road or junction such as Sheaf Street are useful indicators of changes in motor vehicle trends on a city-wide level, serving as useful control test sites to compare local traffic trends with city-wide traffic trends.

We looked at the Sheaf Street control site again, taking 12 hour traffic counts here alongside the journey time surveying on Abbeydale Road, both before and after the Active Neighbourhood measures were put in.

Key

 Location of traffic control site on Sheaf Street

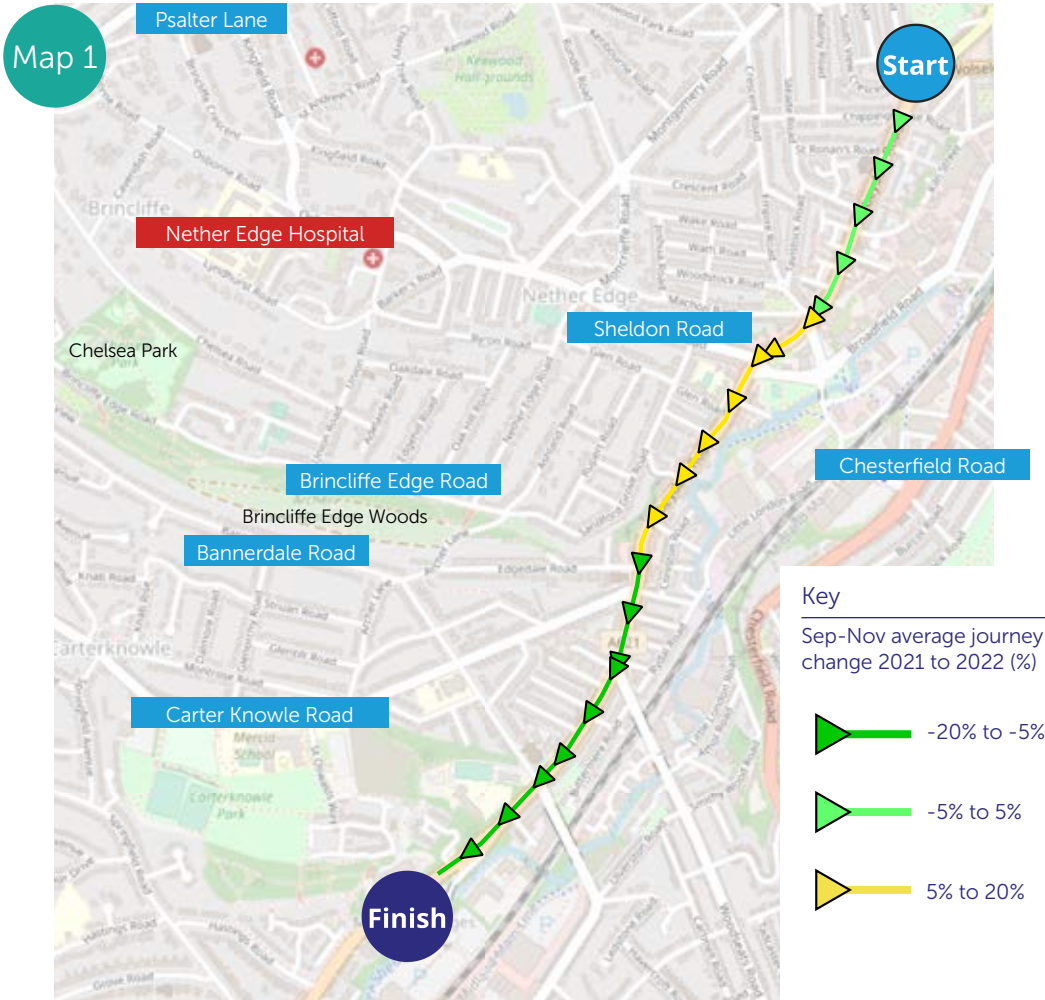
Control site –daily traffic counts taken at the same time periods as the journey time data

	Sep – Nov 2021	Sep – Nov 2022	% change	Mar – Apr 2022	Mar – Apr 2023	% change
Total	40,558	39,852	-2%	38,823	39,743	2%

Abbeydale Road southbound

September - November 2021 to 2022

March - April 2022 to 2023



Sep - Nov 2021 avg total journey time (mm:ss)
Abbeydale Road - 04:54

Sep - Nov 2022 avg total journey time (mm:ss)
Abbeydale Road - 04:54 (**No change**)



Mar - Apr 2022 avg total journey time (mm:ss)
Abbeydale Road - 04:25

Mar - Apr 2023 avg total journey time (mm:ss)
Abbeydale Road - 04:42 (**6% increase**)

*These maps show the change in journey times for vehicles travelling southbound on Abbeydale Road between September to November 2021 and 2022, and March to April 2022 and 2023. The arrows show changes to the average journey time at each stage of the route. Data and an explanation can be found on the next page.

| Abbeydale Road southbound - Journey times

The change in journey times heading southbound on Abbeydale Road in September-November and March-April can be seen here. We analysed data from two separate times either side of the Active Neighbourhood changes coming into effect, to show the change in journey times on southbound journeys on Abbeydale Road since the changes were implemented. Looking at two different points in the year helps to mitigate potential margins of error arising from the impacts of seasonal variance on journey times.

The average journey time remained unchanged in September-November, but increased by 6% in March-April after the Active Neighbourhood measures were put in place.

We also looked at changes in the top 10% longest and the top 10% shortest journeys in order to see how travel times changed for the fastest and slowest journeys along the route.

The changes to the top 10% shortest journey times fluctuated, decreasing by 4% in September-November, but increasing by 3% in March-April. The top 10% longest journey times also fluctuated, decreasing by 1% in September-November while increasing by 15% in March-April.

Journey time (mm:ss)	Sep-Nov 2021	Sep-Nov 2022	% change	Mar-Apr 2022	Mar-Apr 2023	% change
Average	04:54	04:54	0%	04:25	04:42	+6%
10% shortest	03:21	03:13	-4%	03:09	03:14	+3%
10% longest	09:49	09:45	+1%	08:08	09:23	+15%

Abbeydale Road northbound

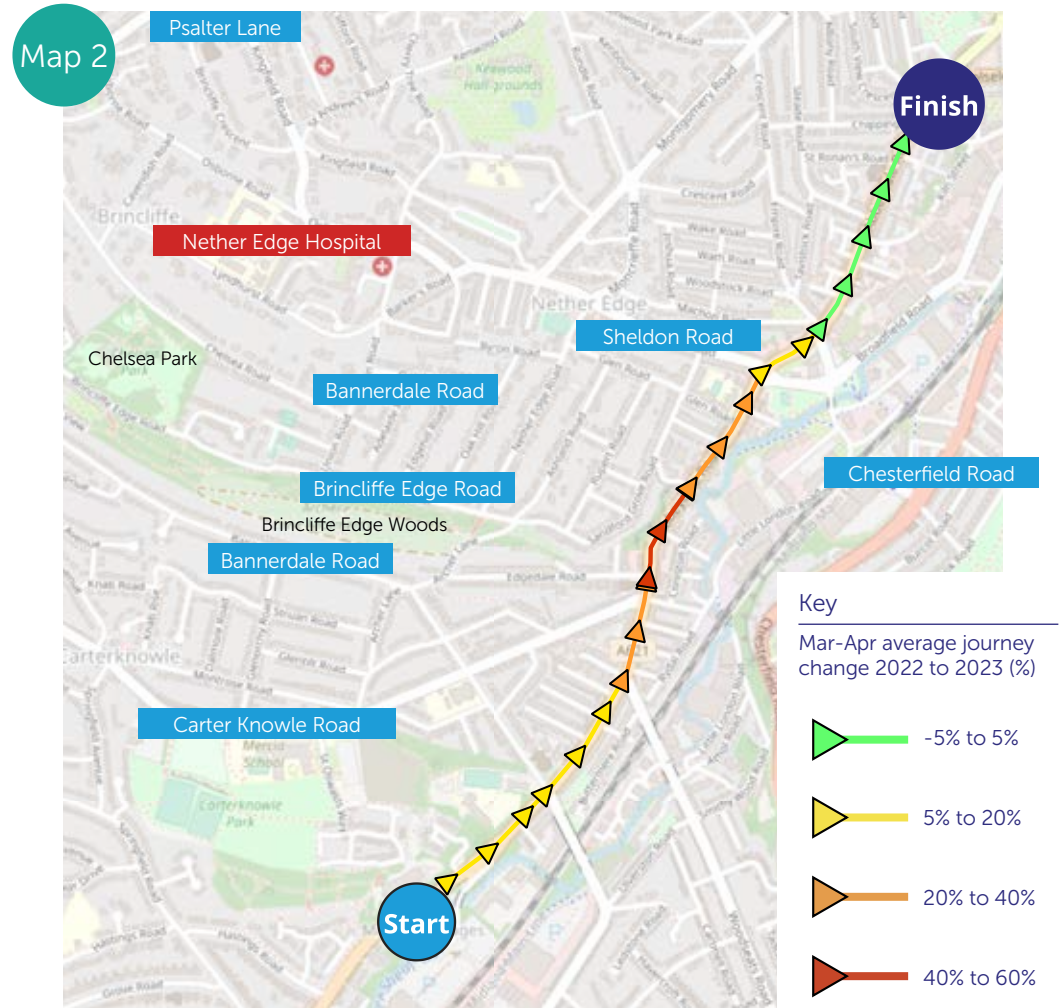
September - November 2021 to 2022

March - April 2022 to 2023



Sep - Nov 2021 avg total journey time (mm:ss)
Abbeydale Road - 02:47

Sep - Nov 2022 avg total journey time (mm:ss)
Abbeydale Road - 03:09 **(13% increase)**



Mar - Apr 2022 avg total journey time (mm:ss)
Abbeydale Road - 02:26

Mar - Apr 2023 avg total journey time (mm:ss)
Abbeydale Road - 03:01 **(24% increase)**

*These maps show the change in journey times for vehicles travelling northbound on Abbeydale Road between September to November 2021 and 2022, and March to April 2022 and 2023. The arrows show changes to the average journey time at each stage of the route. Data and an explanation can be found on the next page.

| Abbeydale Road northbound - Journey times

The change in journey times heading northbound on Abbeydale Road in September-November and March-April can be seen here. We analysed data from two separate times either side of the Active Neighbourhood changes coming into effect, to show the change in journey times on northbound journeys on Abbeydale Road since the changes were implemented. Looking at two different points in the year helps to mitigate potential margins of error arising from the impacts of seasonal variance on journey times.

The average journey time greatly increased throughout the year, with the introduction of the Active Neighbourhood measures increasing journey times in September-November by an average of 13%, and an average of 24% in March-April.

We also looked at changes in the top 10% longest and the top 10% shortest journeys in order to see how travel times changed for the fastest and slowest journeys along the route.

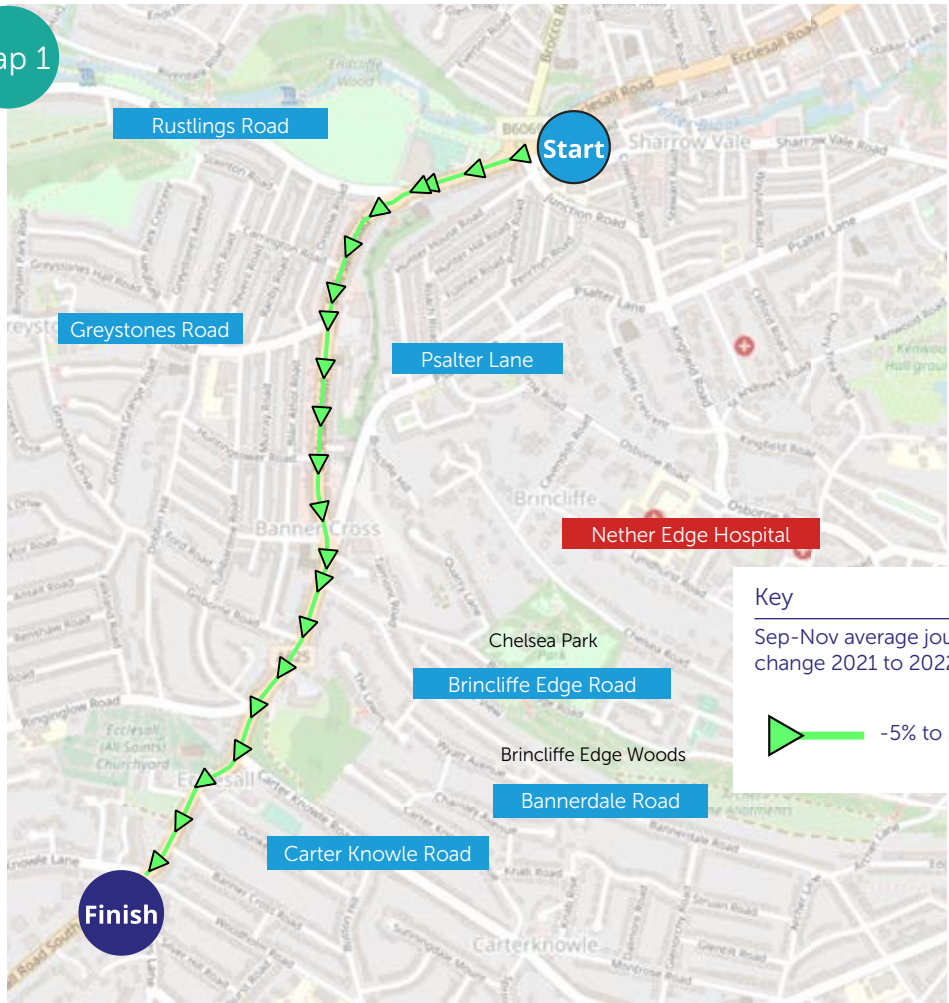
The top 10% shortest journey times also increased, with journeys in September-November seeing a 3% increase in time, and journeys in March-April seeing a 12% increase. The top 10% longest journeys also increased greatly, with times increasing by 14% in September-November and 20% in March-April.

Journey time (mm:ss)	Sep-Nov 2021	Sep-Nov 2022	% change	Mar-Apr 2022	Mar-Apr 2023	% change
Average	02:47	03:09	+13%	02:26	03:01	+24%
10% shortest	01:42	01:45	+3%	01:35	01:46	+12%
10% longest	05:50	06:40	+14%	05:00	05:59	+20%

Ecclesall Road southbound

September - November 2021 to 2022

Map 1



Sep - Nov 2021 avg total journey time (mm:ss)
Ecclesall Road - 03:42

Sep - Nov 2022 avg total journey time (mm:ss)
Ecclesall Road - 03:40 (**<1% decrease**)

March - April 2022 to 2023

Map 2



Mar - Apr 2022 avg total journey time (mm:ss)
Ecclesall Road - 03:26

Mar - Apr 2023 avg total journey time (mm:ss)
Ecclesall Road - 03:41 (**7% increase**)

*These maps show the change in journey times for vehicles travelling southbound on Ecclesall Road between September to November 2021 and 2022, and March to April 2022 and 2023. The arrows show changes to the average journey time at each stage of the route. Data and an explanation can be found on the next page.

Ecclesall Road southbound - Journey times

The change in journey times heading southbound on Ecclesall Road in September-November and March-April can be seen here. We analysed data from two separate times either side of the Active Neighbourhood changes coming into effect, to show the change in journey times on southbound journeys on Ecclesall Road since the changes were implemented. Looking at two different points in the year helps to mitigate potential margins of error arising from the impacts of seasonal variance on journey times.

The average journey time remained unchanged in September-November, but increased by 7% in March-April after the Active Neighbourhood measures were put in place.

We also looked at changes in the top 10% longest and the top 10% shortest journeys in order to see how travel times changed for the fastest and slowest journeys along the route.

The top 10% shortest journey times saw similar trends to the average journey times, with journey times in September-November seeing no change, while the March-April month groups increased by 5%. The top 10% longest journeys increased throughout the year, with journey times increasing by 1% in September-November and by 12% in March-April.

Journey time (mm:ss)	Sep-Nov 2021	Sep-Nov 2022	% change	Mar-Apr 2022	Mar-Apr 2023	% change
Average	03:42	03:40	-<1%	03:26	03:41	+7%
10% shortest	02:45	02:44	-<1%	02:37	02:45	+5%
10% longest	05:38	05:41	+1%	05:01	05:36	+12%

Ecclesall Road northbound

September - November 2021 to 2022

Map 1

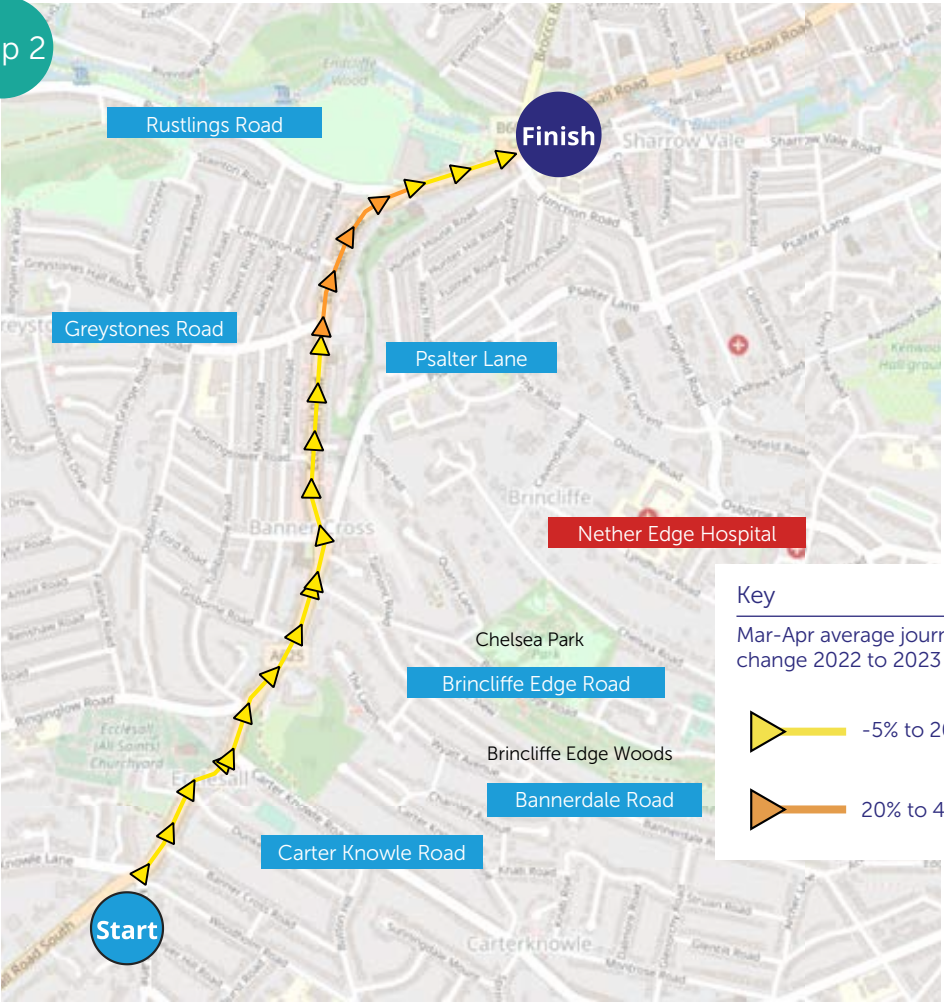


Sep - Nov 2021 avg total journey time (mm:ss)
Ecclesall Road - 04:15

Sep - Nov 2022 avg total journey time (mm:ss)
Ecclesall Road - 04:14 (**<1% decrease**)

March - April 2022 to 2023

Map 2



Mar - Apr 2022 avg total journey time (mm:ss)
Ecclesall Road - 04:04

Mar - Apr 2023 avg total journey time (mm:ss)
Ecclesall Road - 04:39 (**14% increase**)

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Ecclesall Road northbound - Journey times

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The top 10% shortest journey times saw similar trends to the average journey times, with journey times in September-November seeing no change, while journeys in March-April increased by 5%. The top 10% longest journeys increased throughout the year, with journey times increasing by 1% in September-November and 12% in March-April month.

Journey time (mm:ss)	Sep-Nov 2021	Sep-Nov 2022	% change	Mar-Apr 2022	Mar-Apr 2023	% change
Average	04:15	04:14	<1%	04:04	04:39	+14%
10% shortest	02:52	02:54	+1%	02:50	02:57	+4%
10% longest	08:38	09:27	+10%	08:06	12:53	+59%