

**Forth Replacement Crossing**

**Traffic Monitoring Annual Report:  
2015 – 2016**

**March 2017**

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**1.1 Background**

Traffic monitoring is being undertaken before, during and after construction of the Forth Replacement Crossing (FRC) Project in order to monitor the impacts of changing route provision and traffic management on traffic volumes and patterns within the Firth of Forth area. It is also intended that this will inform the Monitoring and Evaluation Report, which will be issued post construction.

Traffic management for the scheme was first installed on the M90 on the 23<sup>rd</sup> September 2011. This report presents the key traffic information, in the immediate vicinity of the crossing and the affected road network, for the period August 2015 to September 2016. It therefore allows a comparison of data for the five years of monitoring. The report also contains the details of journey time surveys undertaken between September 2015 and September 2016, on the key routes.

Volumetric traffic data is recorded via Automatic Traffic Counters (ATCs). In order to establish 'baseline' traffic levels it was necessary to consider data that was available at existing ATC locations and consider the potential for new ATCs. The new ATCs were installed at various locations within the defined FRC monitoring area in July 2011.

Journey time surveys have been, and will continue to be undertaken on selected routes, subject to a periodic review of the survey results. Surveys are undertaken on 11 identified local routes in the vicinity of the FRC each month and on two longer, strategic routes on an annual basis. Surveys are undertaken in each direction in both AM and PM peaks.

This forms the fifth Traffic Monitoring Annual Report. The aim of this report is to present the traffic data collected throughout the monitoring period, to allow for key changes and trends to be identified. It also aims to identify changes in journey times throughout the monitoring period, and how they compare to previous monitoring periods.

**1.2 ATC Data Reporting**

In order to report consistent and accurate data, consultation with Transport Scotland's national traffic data provider has been undertaken. A period of up to two months is required to allow their traffic data validation process to be carried out. It should be noted that the process of validation used cannot guarantee that all errors in the data are removed.

### 1.3 Report Structure

The outline report structure is as follows:

- Section 2 details the methodology for collecting and reporting traffic flow data, assessment of currently available traffic flow data, and details the structure of the report for each individual counter throughout the monitoring period;
- Sections 3 to 6 contain the traffic flow data, and summaries of key changes and trends, for each individual counter for August 2015 to September 2016; and
- Section 7 details the methodology for collecting and reporting journey time data and presents the findings of the journey time surveys undertaken in the fifth year of monitoring, from September 2015 to September 2016.



## 2 Traffic Flow Data

### 2.1 Introduction

A series of ATCs have been used to monitor traffic levels on both local and strategic routes associated with the existing Forth crossings and surrounding areas. These monitoring stations include existing permanent counter sites, which provide comprehensive coverage of the surrounding road network. These traffic counters are intended to be in place throughout the construction period of the scheme to provide a robust basis for traffic monitoring. The counter locations are presented in Appendix A.

The locations of these counters are considered to be appropriate to suitably monitor both traffic impacts on local routes within communities adjacent to the scheme, and on wider trunk and motorway routes catering for more strategic traffic movements. The strategic traffic movements considered relevant to this monitoring exercise are as follows:

- Traffic movements across the Forth between the M9 (Stirling) and south of the Forth Road Bridge (FRB) via the FRB, Kincardine and Clackmannanshire Bridges;
- Traffic movements to the west of the proposed FRC on the A904 (west of Queensferry), the M9, A89 and M8 (west of Junction 2);
- Traffic movements to the west of Edinburgh on the A90 (west of Barnton Junction), A8, M8, A71, and A70 at Currie; and
- Traffic movements to the east and west of the M90 / A90 corridor in Fife, between the A92 at Halbeath Junction south to Ferrytoll Junction.

Data collected from the ATC installations has been used to present the following average traffic information for each month, based on 7-day traffic flows:

- Average 24 hr traffic and HGV flows
- AM peak (07:00 to 10:00) and PM peak (16:00 to 19:00) flows

Assessment of the survey data has been undertaken to monitor changes in traffic flows and composition at each counter location.

### 2.2 Traffic Flow Data Suitability

In order to check the suitability of the traffic survey data collected at each counter location, survey data was (and will be) assessed to establish:

- The number of days over which data was collected (the survey period); and
- The period of time within this survey period where the counter was operational.

Although a suitable period of time has passed to allow a degree of validation to be undertaken, this does not guarantee that all errors in the data have been removed. To enable a robust assessment of the data, some counter locations have not been included in the reporting. Where the number of survey days within the established survey month is less than ten, it was considered that the use of monthly average

values from this data could not be considered to present a suitably robust representation of typical values within the survey month.

The majority of counters contain a suitably large sample to represent monthly averages. This varies month to month, and where a month is not considered to contain suitably robust data for the purposes of this report, “No Data” has been inserted into the table.

Consideration was also given to identifying the extent to which counters were not working properly during the defined survey months. This was established by identifying hourly total flows that were either zero, or deviated significantly from expected traffic levels. Where identified, this data has been removed to prevent atypical flows skewing the results.

### 2.3 Contents of the Traffic Flow Section

To provide a consistent baseline for evaluation, August 2011 traffic flow data from each counter has been used to establish typical, pre-construction levels.

The monthly average traffic flows, AM and PM peak average traffic flows, monthly average Heavy Goods Vehicle (HGV) flows, and monthly average speeds for each month between August 2015 and September 2016, are presented in Section 3 (Motorways), Section 4 (A-Roads), Section 5 (B-Roads) and Section 6 (Other Roads) for comparison. Traffic flows for August 2014 to September 2015 have also been included where available, for comparison with the 2015-2016 data. At the beginning of each counter's section, commentary is provided where notable changes have been observed.

In the tables contained within Sections 3, 4, 5 and 6, the following abbreviations are used:

- Northbound – NB;
- Southbound – SB;
- Eastbound – EB;
- Westbound – WB; and
- Heavy Goods Vehicles – HGV.

In April 2016, Transport Scotland Network Operations migrated the hosting of traffic count data and management of traffic counter installations to a new platform. The Scottish Roads Traffic Database (SRTDb) was replaced by the National Traffic Data System (NTDS). The aim of this transition was to facilitate more sophisticated queries and analysis of a greater number and range of data sets. Due to a technical issue associated with the migration to the new platform, which is currently being addressed, it has not been possible as yet to download speed data for some NADICS 3 Level Vehicle Length Classification system (NTC) counters. Any data that subsequently becomes available will be presented as an addendum. Furthermore, a complete dataset summarising all of the years monitored will be presented in an ultimate report, which will incorporate any data which was previously unavailable.

Historically SRTDb and now NTDS have used automatic traffic counters with the most appropriate technology available at the time. As a consequence there are a variety of counter types currently in use within the network as a whole. Each of the counters uses one of three vehicle classification systems: Euro6, CA10 and

NADICS 3 Level Vehicle Length Classification. Euro6 and NADICS 3 classification systems were employed when traffic monitoring began in 2011, but due to the NTDS transition, nine JTC counters, which were previously employing the Euro6 classification system, switched to the CA10 system, in April 2016. The transition took place during the reported monitoring period but a thorough analysis was conducted to ensure consistency within the reported values before and after April 2016. The full breakdown of vehicles classes for each classification system can be found in Appendix B. The methodology used for reporting HGV flows from these classification systems is outlined below.

- **Euro6:** Only user classes *CCE5 HGV (Articulated)* and *CCE6 Bus* are being reported as HGV traffic. Note that user class *CCE4 LGV/Rigid OGV1* is not being reported as HGV flow since on most routes within the study area this class is made up of a high percentage of Light Goods Vehicles (LGVs), which would result in the over reporting of the HGV flows across all of the monitoring sites.
- **CA10:** Only user classes *7 – Rigid HGV + Trailer*, *8 – Standard Articulated (Cab + Trailer)* and *10 – Bus/Coach* are being reported as HGV flow. Note that user class *9 – Rigid HGV* is not being reported as HGV traffic to be consistent with the Euro6 classification system.
- **NADICS 3 Level Vehicle Length Classification:** Only vehicles classified as *L – Long* are being reported as HGV flow.

For more information detailing the classification system used at each counter read the Appendix C: Classification system by counter.

## 3 Motorway Automatic Traffic Counters

### 3.1 Traffic Counter JTC00068 - M9 200m South of Keir Roundabout

Summary of statistics between August 2015 and September 2016:

- FRB closure in December 2016 caused an increase in all traffic as this counter is on one of the diversion routes. The increase in HGV traffic remained until mid-February 2016 as restrictions on HGVs remained in place on the FRB.
- Traffic flows are indicative of typical seasonal variation; with higher flows over the summer months.
- Traffic flows are consistent with the previous monitoring period.

#### 3.1.1 Monthly Average Traffic Flows

**Table 3-1 Site: JTC00068 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00068	M9 200m South of Keir Roundabout	Aug-11	17,017	17,681	34,698
		Aug-15	19,100	19,220	38,320
		Sep-15	18,873	19,234	38,107
		Oct-15	18,701	18,921	37,622
		Nov-15	17,325	17,441	34,767
		Dec-15	20,801	21,404	42,205
		Jan-16	15,995	15,937	31,932
		Feb-16	15,928	17,810	33,738
		Mar-16	16,143	18,207	34,350
		Apr-16	17,989	18,252	36,242
		May-16	18,602	18,656	37,258
		Jun-16	18,958	19,304	38,262
		Jul-16	19,005	19,105	38,110
		Aug-16	19,684	19,670	39,354
		Sep-16	19,469	19,548	39,016
	<b>Annual Average</b>	<b>18,118</b>	<b>18,625</b>	<b>36,743</b>	

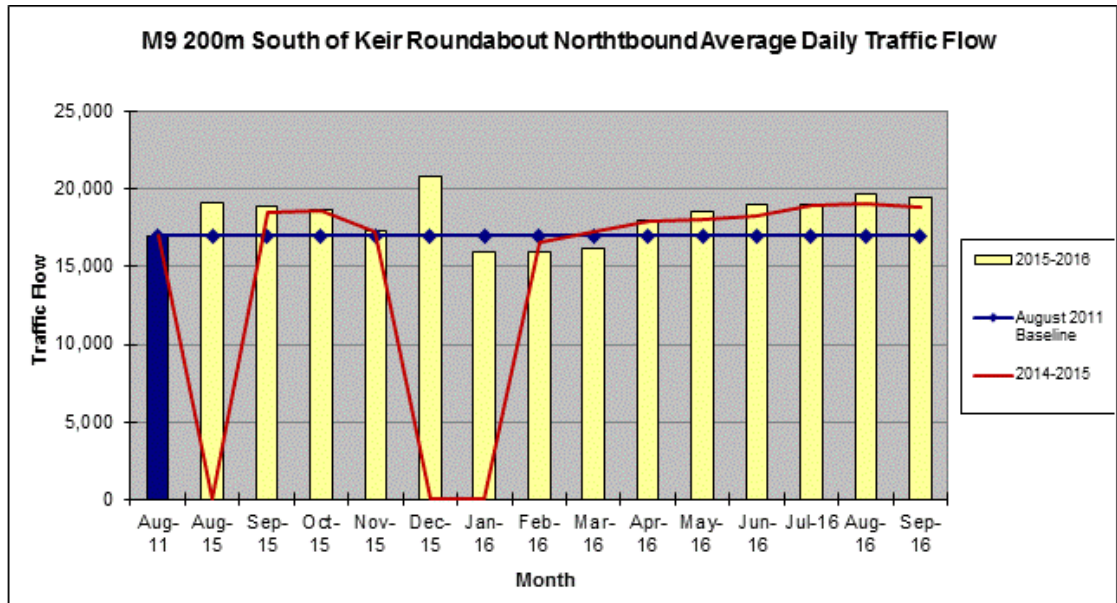


Figure 3-1 Monthly AADTs on the M9 200m South of Keir Roundabout

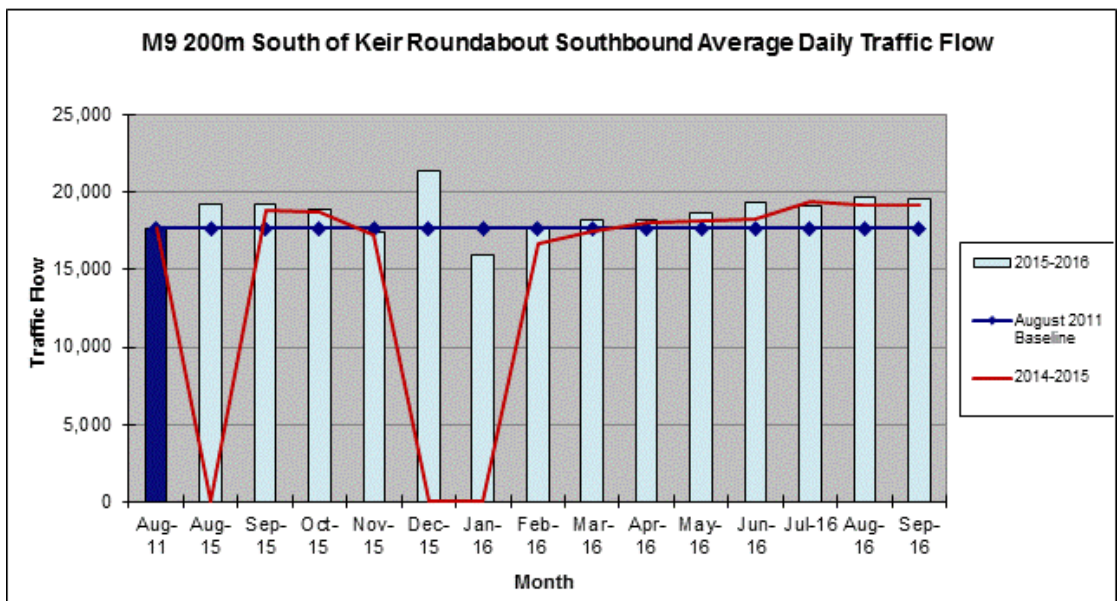


Figure 3-2 Monthly AADTs on the M9 200m South of Keir Roundabout

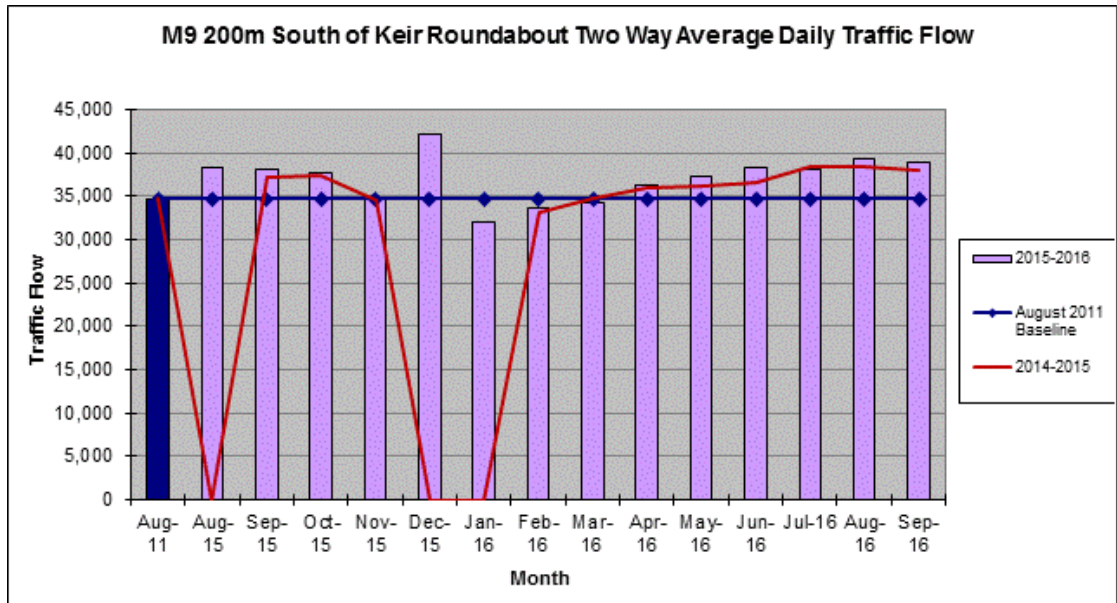


Figure 3-3 Monthly Two Way Daily Traffic Flows on the M9 200m South of Keir Roundabout

### 3.1.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-2 Site: JTC00068 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00068	M9 200m South of Keir Roundabout	Aug-11	6,092	7,862
		Aug-15	6,880	7,189
		Sep-15	7,206	7,227
		Oct-15	6,942	7,219
		Nov-15	6,411	7,675
		Dec-15	7,328	9,002
		Jan-16	5,916	7,138
		Feb-16	6,614	7,441
		Mar-16	6,401	7,486
		Apr-16	6,648	6,565
		May-16	6,906	6,841
		Jun-16	7,133	6,921
		Jul-16	6,670	6,833
		Aug-16	7,205	7,295
Sep-16	7,327	7,170		
		<b>Annual Average</b>	<b>6,755</b>	<b>7,295</b>

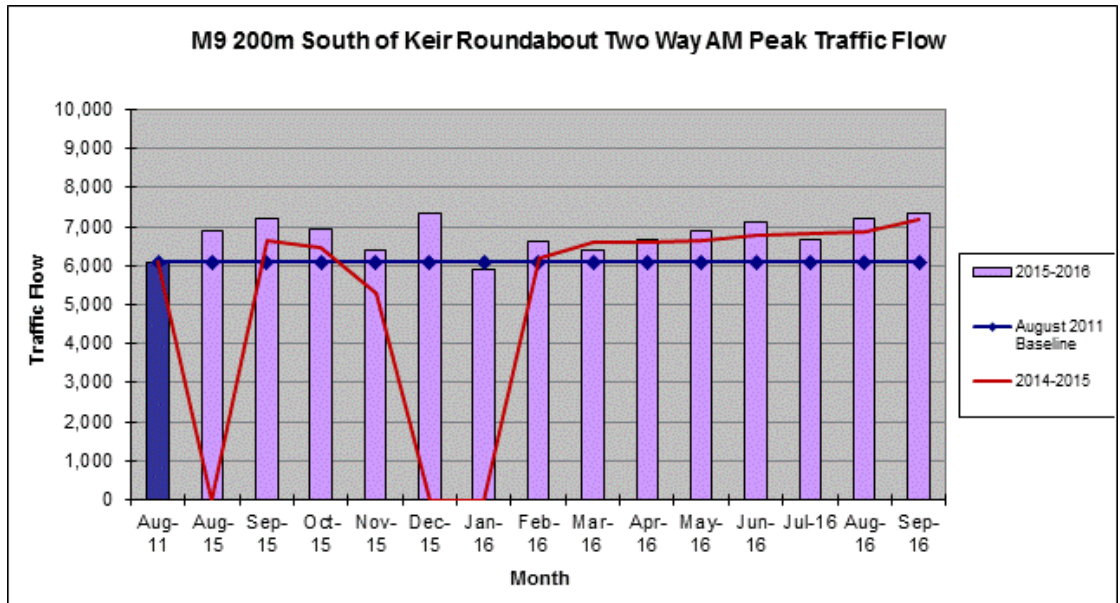


Figure 3-4 Monthly Two Way AM Peak Flows on the M9 200m South of Keir Roundabout

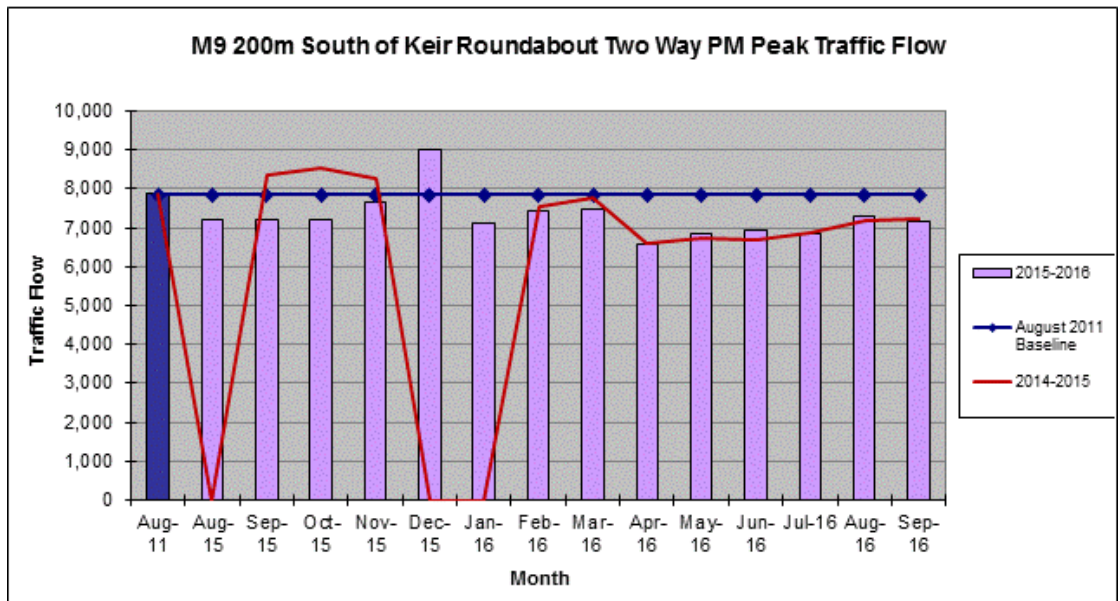


Figure 3-5 Monthly Two Way PM Peak Flows on the M9 200m South of Keir Roundabout

### 3.1.3 Monthly Average HGV Flows

Table 3-3 Site: JTC00068 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00068	M9 200m South of Keir Roundabout	Aug-11	2,207
		Aug-15	2,261
		Sep-15	2,480
		Oct-15	2,417
		Nov-15	2,520
		Dec-15	3,491
		Jan-16	2,933
		Feb-16	2,921
		Mar-16	2,402
		Apr-16	2,442
		May-16	2,451
		Jun-16	2,674
		Jul-16	2,430
		Aug-16	2,498
		Sep-16	2,542
	<b>Annual Average</b>	<b>2,619</b>	

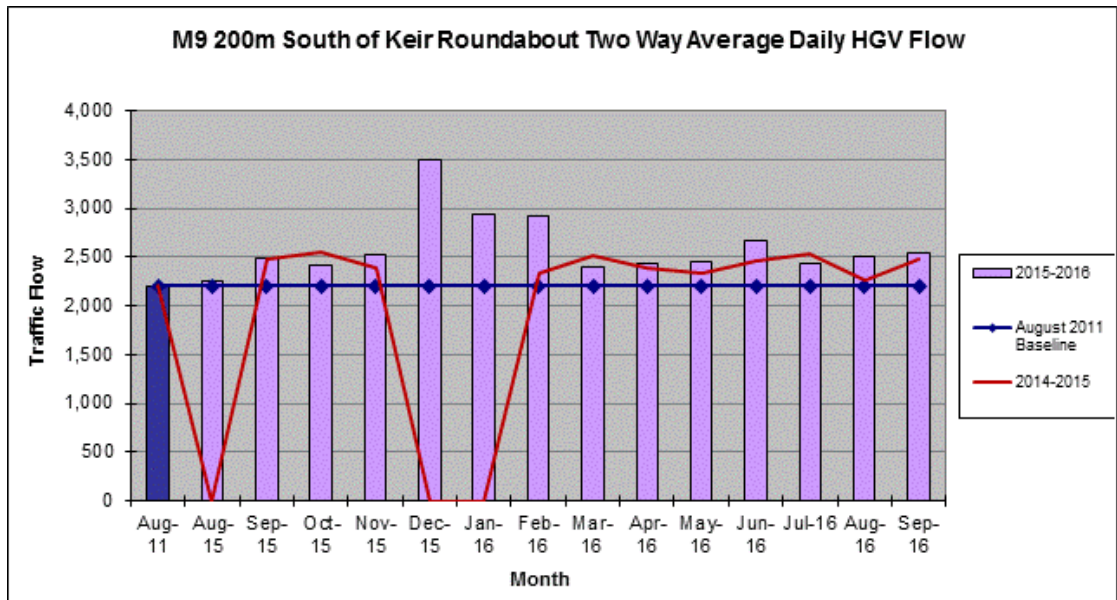


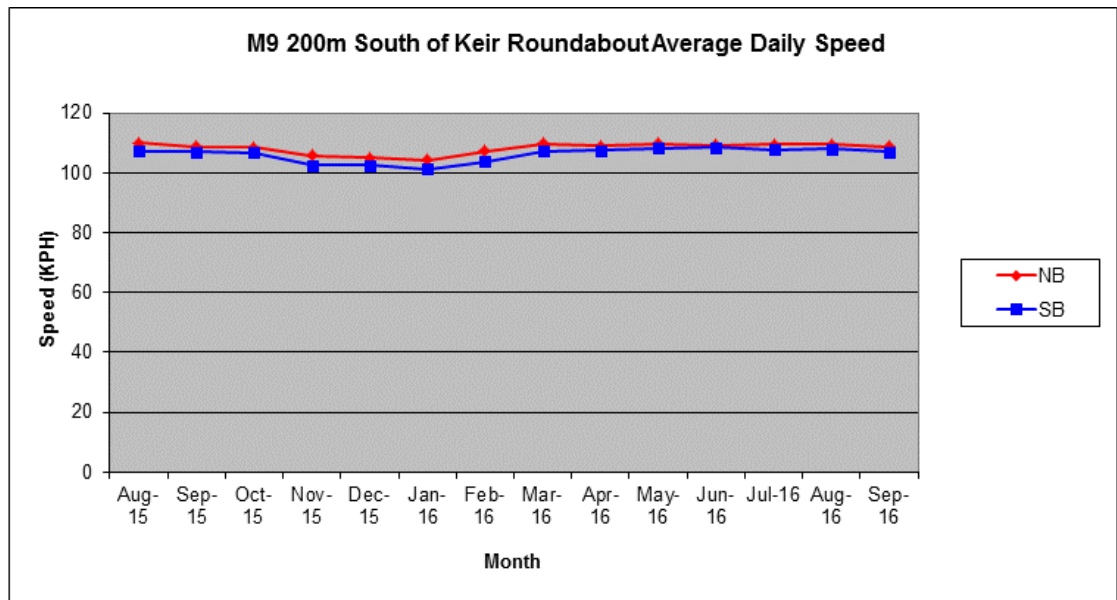
Figure 3-6 Monthly Two Way HGV Traffic Flows on the M9 200m South of Keir Roundabout



### 3.1.4 Monthly Average All Vehicles Traffic Speeds

**Table 3-4 Site: JTC00068 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00068	M9 200m South of Keir Roundabout	Aug-15	110	107
		Sep-15	109	107
		Oct-15	109	107
		Nov-15	106	102
		Dec-15	105	103
		Jan-16	104	101
		Feb-16	107	104
		Mar-16	110	107
		Apr-16	109	107
		May-16	110	108
		Jun-16	109	108
		Jul-16	109	108
		Aug-16	109	108
		Sep-16	109	107



**Figure 3-7 Average Monthly Traffic Speeds (KPH) on the M9 200m South of Keir Roundabout**

### 3.2 Traffic Counter JTC00439 - M9 South of Junction 2 (Philpstoun)

Summary of statistics between August 2015 and September 2016:

- Traffic flows are indicative of typical seasonal variation; with lower flows in February and higher flows over the summer months.
- Flows are generally higher than the August 2011 baseline.
- Traffic flows are consistent with the previous monitoring period.
- FRB closure caused an increase in HGV traffic in February 2016 as this counter is on the main diversion route.

#### 3.2.1 Monthly Average Traffic Flows

**Table 3-5 Site: JTC00439 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00439	M9 South of Junction 2 (Philpstoun)	Aug-11	13,806	14,263	28,069
		Aug-15	16,331	16,455	32,786
		Sep-15	16,746	16,849	33,596
		Oct-15	No Data	No Data	No Data
		Nov-15	No Data	No Data	No Data
		Dec-15	No Data	No Data	No Data
		Jan-16	No Data	No Data	No Data
		Feb-16	15,604	15,698	31,303
		Mar-16	16,022	16,131	32,153
		Apr-16	15,728	15,965	31,693
		May-16	16,285	16,513	32,798
		Jun-16	16,756	17,012	33,767
		Jul-16	16,565	16,722	33,287
		Aug-16	17,782	18,109	35,891
		Sep-16	16,911	17,154	34,065
	<b>Annual Average</b>	<b>16,255</b>	<b>16,418</b>	<b>32,673</b>	

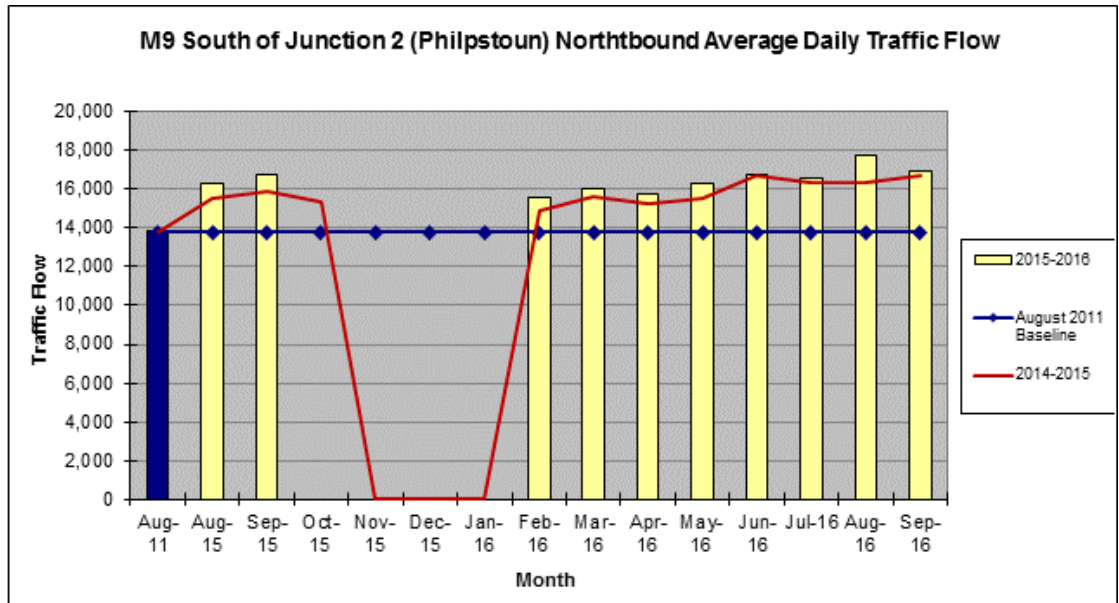


Figure 3-8 Monthly AADTs on the M9 South of Junction 2 (Philpstown)

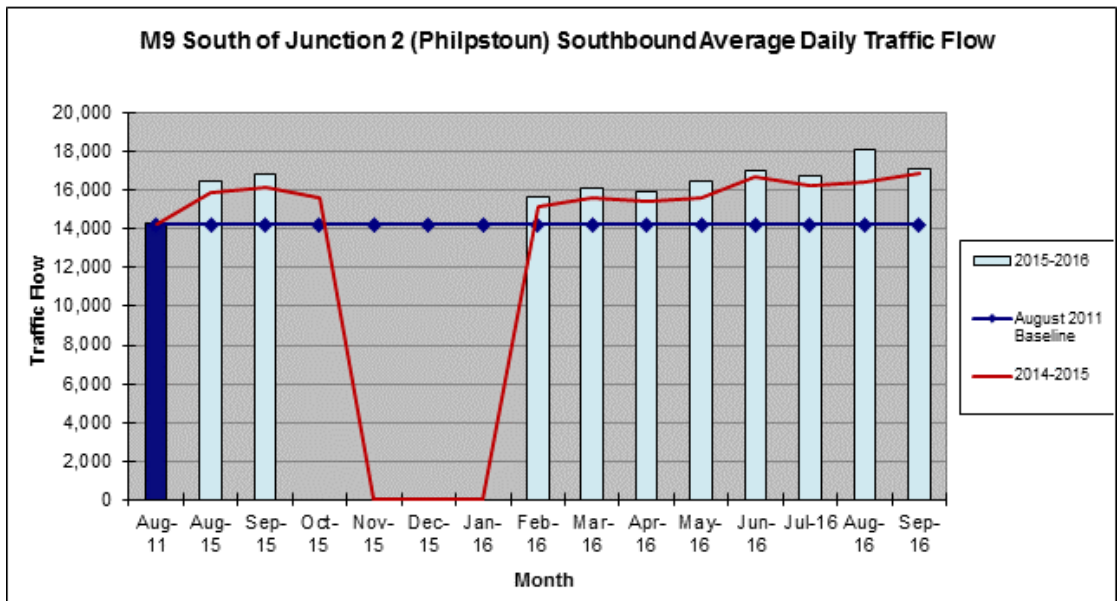


Figure 3-9 Monthly AADTs on the M9 South of Junction 2 (Philpstown)

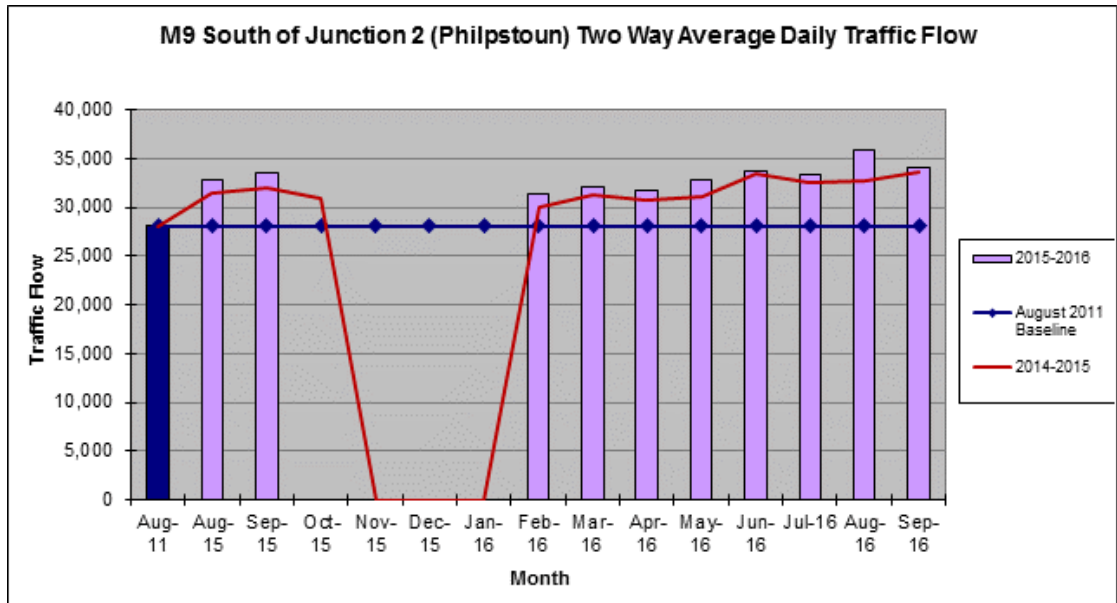


Figure 3-10 Monthly Two Way Daily Traffic Flows on the M9 South of Junction 2 (Philpstoun)

### 3.2.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-6 Site: JTC00439 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00439	M9 South of Junction 2 (Philpstoun)	Aug-11	6,210	6,872
		Aug-15	6,547	7,671
		Sep-15	7,363	7,920
		Oct-15	No Data	No Data
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	6,504	7,288
		Mar-16	6,844	7,546
		Apr-16	6,482	7,306
		May-16	6,699	7,666
		Jun-16	6,981	7,762
		Jul-16	6,356	7,644
		Aug-16	7,230	8,459
Sep-16	7,022	7,919		
	<b>Annual Average</b>	<b>6,722</b>	<b>7,600</b>	

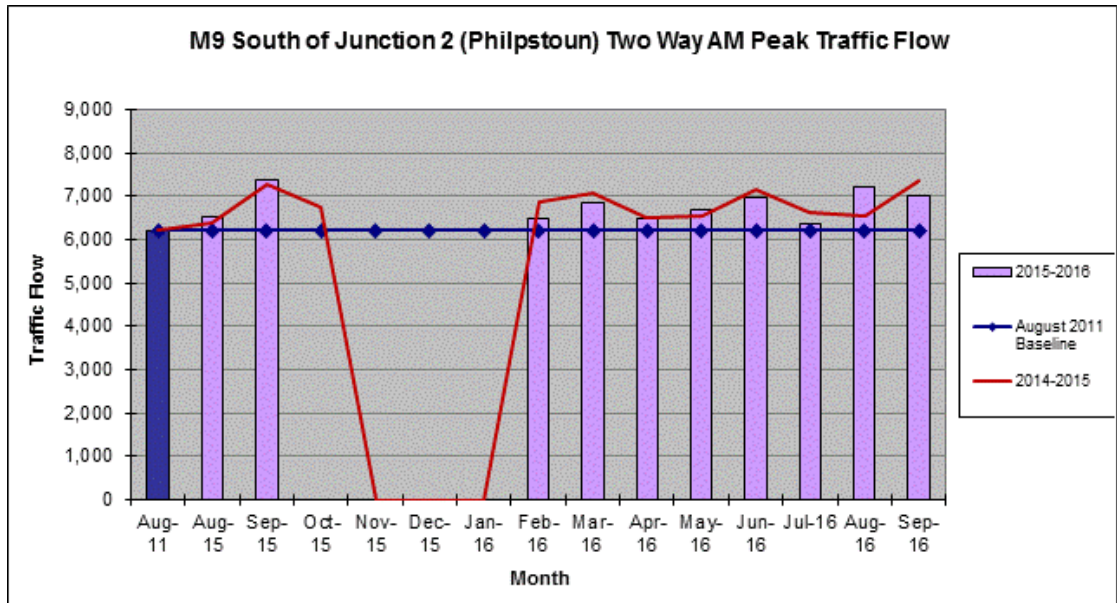


Figure 3-11 Monthly Two Way AM Peak Flows on the M9 South of Junction 2 (Philpstoun)

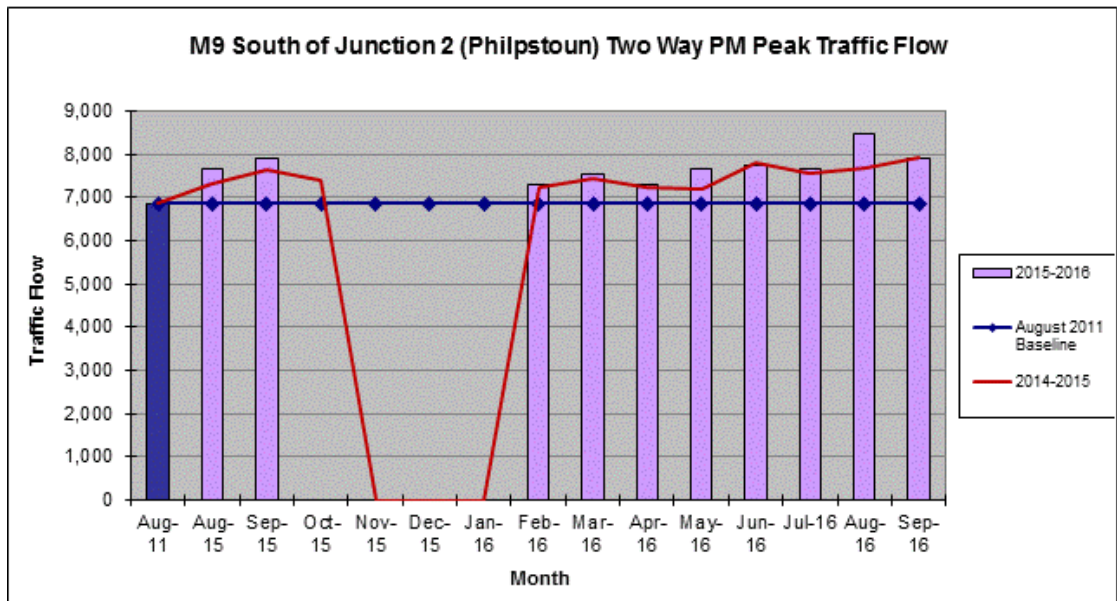


Figure 3-12 Monthly Two Way PM Peak Flows on the M9 South of Junction 2 (Philpstoun)

### 3.2.3 Monthly Average HGV Flows

Table 3-7 Site: JTC00439 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00439	M9 South of Junction 2 (Philpstoun)	Aug-11	1,018
		Aug-15	1,282
		Sep-15	1,439
		Oct-15	No Data
		Nov-15	No Data
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	1,710
		Mar-16	1,362
		Apr-16	1,290
		May-16	1,317
		Jun-16	1,369
		Jul-16	1,340
		Aug-16	1,482
		Sep-16	1,401

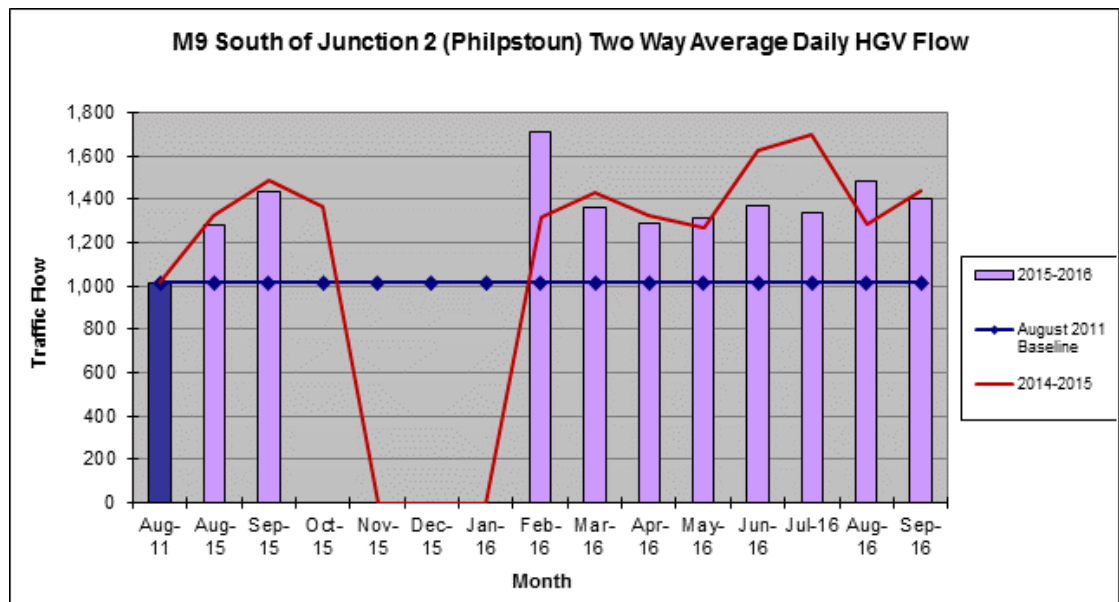
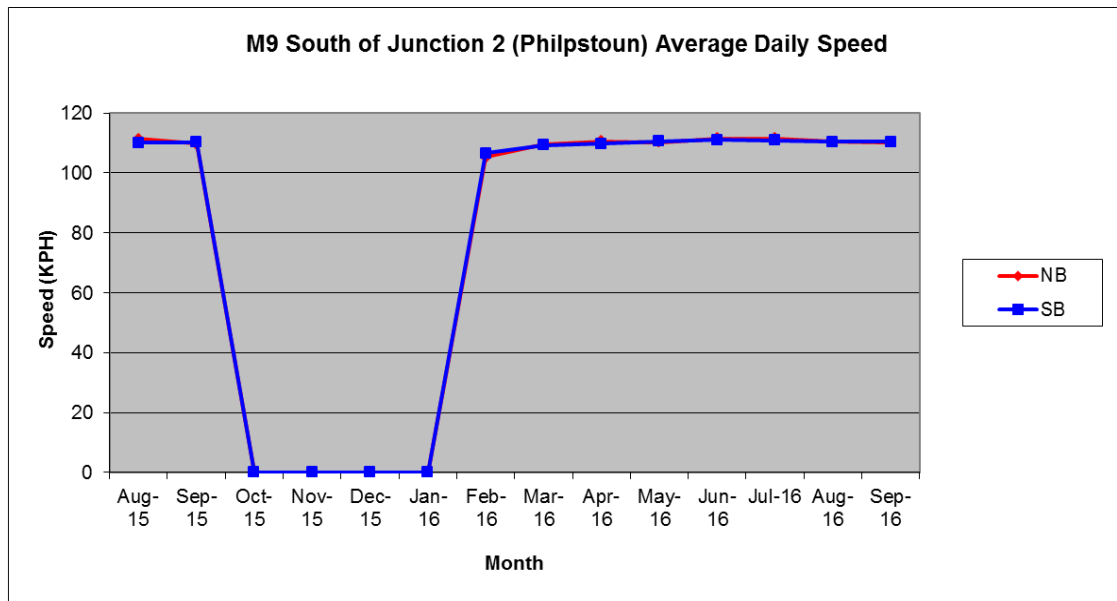


Figure 3-13 Monthly Two Way HGV Traffic Flows on the M9 South of Junction 2 (Philpstoun)

### 3.2.4 Monthly Average All Vehicles Traffic Speeds

**Table 3-8 Site: JTC00439 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00439	M9 South of Junction 2 (Philpstoun)	Aug-15	111	110
		Sep-15	110	110
		Oct-15	No Data	No Data
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	105	107
		Mar-16	109	109
		Apr-16	111	110
		May-16	110	110
		Jun-16	111	111
		Jul-16	112	111
		Aug-16	110	110
		Sep-16	110	110



**Figure 3-14 Average Monthly Traffic Speeds (KPH) on the M9 South of Junction 2 (Philpstoun)**

### 3.3 Traffic Counter JTC06460 - A823 (M) to M90 Junction 2 On-Ramp Southbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV traffic flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows are consistent with the previous monitoring period, with the exceptions of December 2015, January 2016 and February 2016.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.3.1 Monthly Average Traffic Flows

**Table 3-9 Site: JTC06460 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
JTC06460	A823 (M) to M90 Junction 2 On-Ramp Southbound	Aug-11	No Data
		Aug-15	5,845
		Sep-15	5,824
		Oct-15	5,557
		Nov-15	5,933
		Dec-15	2,670
		Jan-16	5,126
		Feb-16	5,660
		Mar-16	5,869
		Apr-16	5,730
		May-16	5,874
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
	<b>Annual Average</b>	<b>5,409</b>	



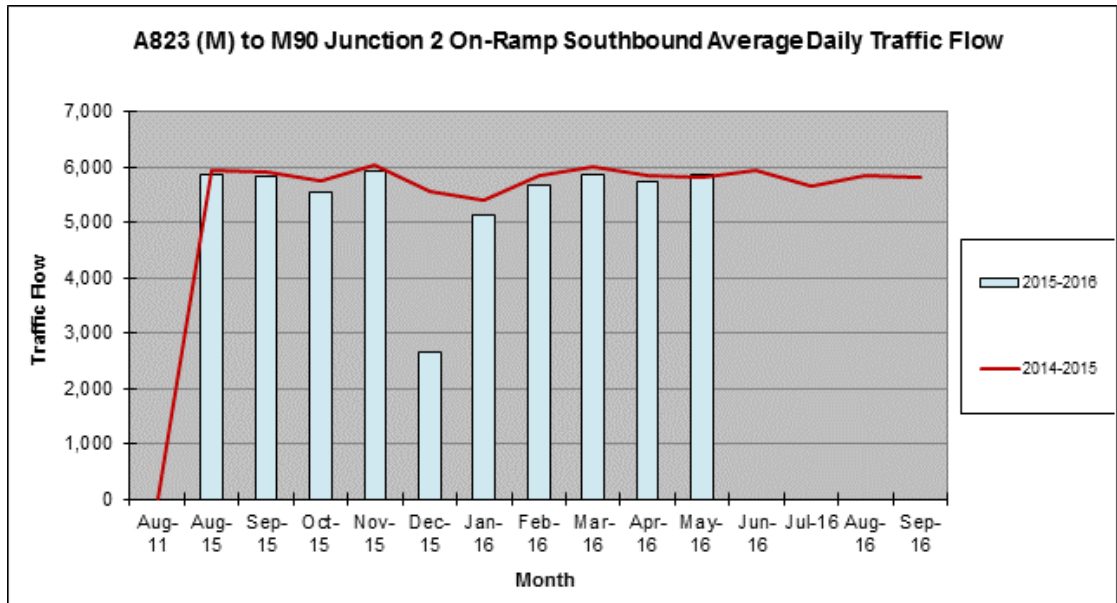


Figure 3-15 Monthly AADTs on the A823 (M) to M90 Junction 2 On-Ramp Southbound

### 3.3.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-10 Site: JTC06460 Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC06460	A823 (M) to M90 Junction 2 On-Ramp Southbound	Aug-11	No Data	No Data
		Aug-15	1,100	982
		Sep-15	1,092	1,016
		Oct-15	1,059	1,010
		Nov-15	1,143	1,318
		Dec-15	396	572
		Jan-16	975	1,182
		Feb-16	1,100	1,296
		Mar-16	1,156	1,292
		Apr-16	1,132	1,266
		May-16	1,145	1,302
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>1,030</b>	<b>1,124</b>	

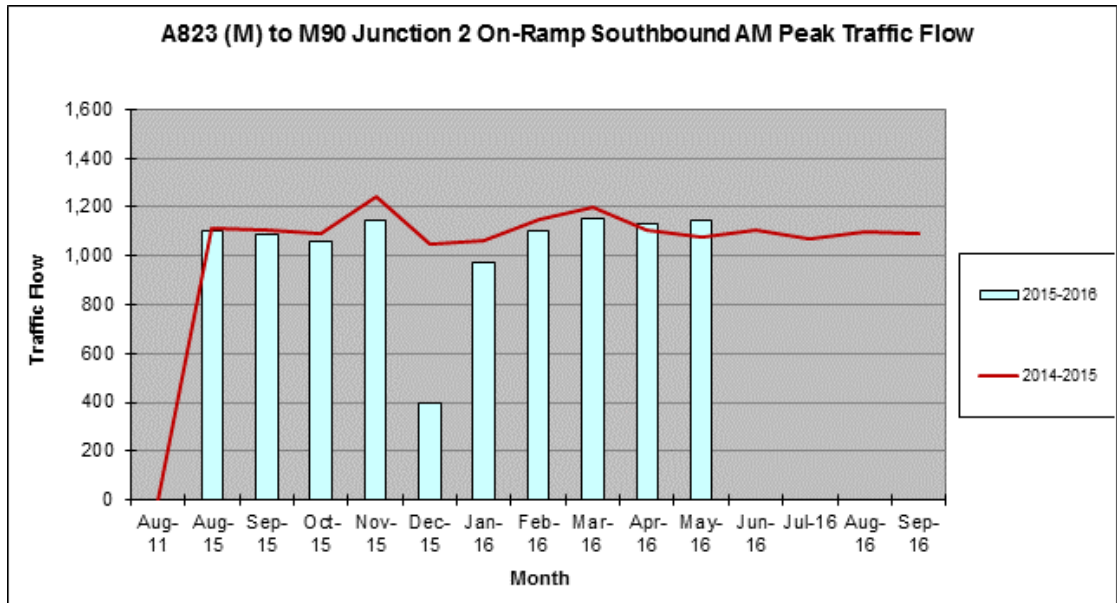


Figure 3-16 Monthly AM Peak Flows on the A823 (M) to M90 Junction 2 On-Ramp Southbound

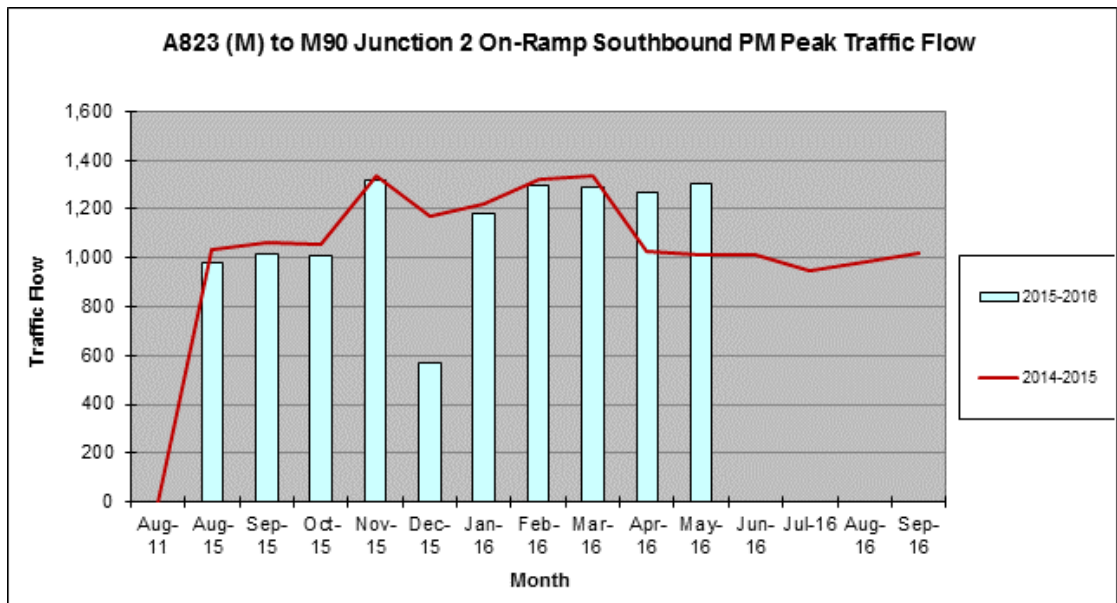


Figure 3-17 Monthly PM Peak Flows on the A823 (M) to M90 Junction 2 On-Ramp Southbound

### 3.3.3 Monthly Average HGV Flows

Table 3-11 Site: JTC06460 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	SB
JTC06460	A823 (M) to M90 Junction 2 On-Ramp Southbound	Aug-11	No Data
		Aug-15	82
		Sep-15	86
		Oct-15	76
		Nov-15	83
		Dec-15	31
		Jan-16	36
		Feb-16	46
		Mar-16	77
		Apr-16	72
		May-16	71
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	<b>66</b>

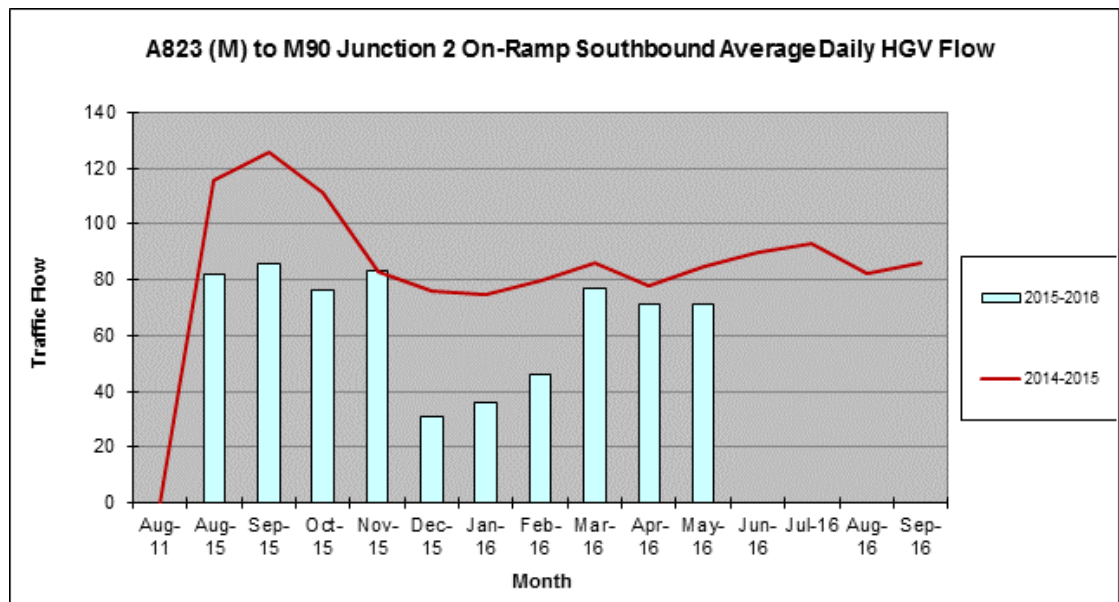
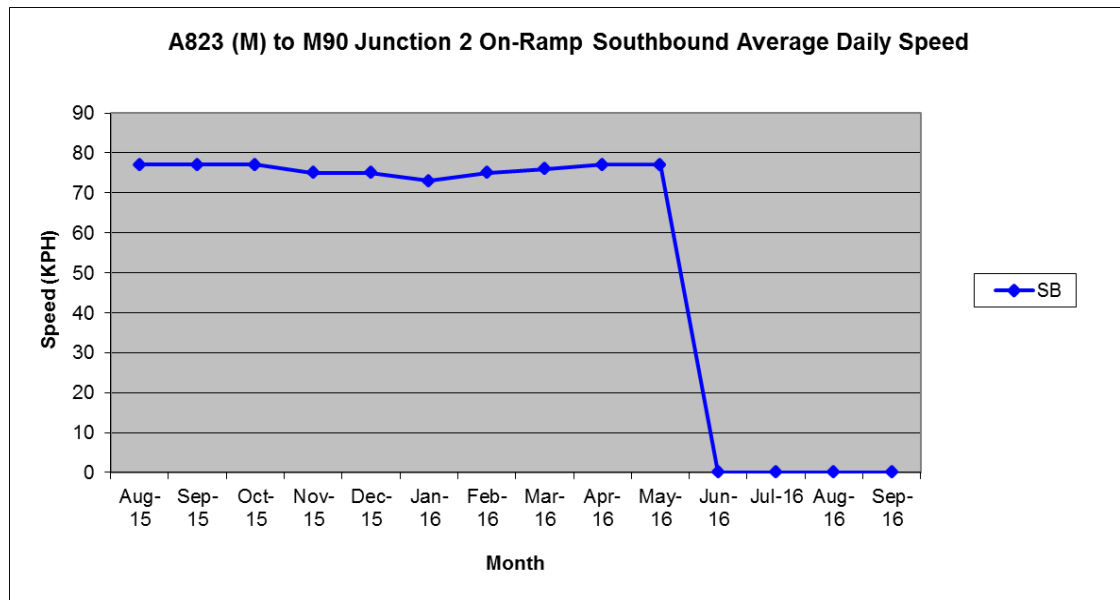


Figure 3-18 Monthly HGV Traffic Flows on the A823 (M) to M90 Junction 2 On-Ramp Southbound

### 3.3.4 Monthly Average All Vehicles Traffic Speeds

**Table 3-12 Site: JTC06460 Average Monthly Traffic Speeds (KPH) (All Vehicles) - August 2015 to September 2016**

Counter	Location	Date	SB
JTC06460	A823 (M) to M90 Junction 2 On-Ramp Southbound	Aug-15	77
		Sep-15	77
		Oct-15	77
		Nov-15	75
		Dec-15	75
		Jan-16	73
		Feb-16	75
		Mar-16	76
		Apr-16	77
		May-16	77
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data



**Figure 3-19 Average Monthly Traffic Speeds (KPH) on the A823 (M) to M90 Junction 2 On-Ramp Southbound**

### 3.4 Traffic Counter JTC00589 - A8000 / M9 Spur Northbound

Summary of statistics between August 2015 and September 2016:

- Traffic flows are consistent with the previous monitoring period.
- Traffic flows are higher than the 2011 baseline.
- Data has been intermittent throughout the monitoring period, with no data recorded at all in some months, and only a limited number of reliable days recorded in others.

#### 3.4.1 Monthly Average Traffic Flows

**Table 3-13 Site: JTC00589 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
JTC00589	A8000 / M9 Spur Northbound	Aug-11	19,549
		Aug-15	21,351
		Sep-15	21,418
		Oct-15	19,775
		Nov-15	No Data
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	21,004
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	<b>20,887</b>

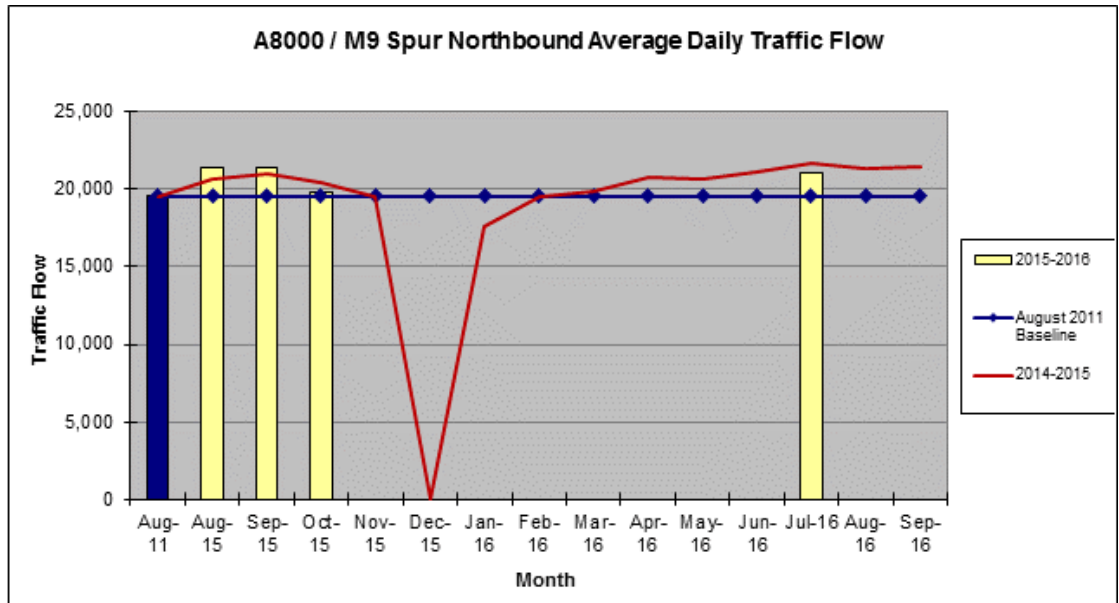


Figure 3-20 Monthly AADTs on the A8000 / M9 Spur Northbound

### 3.4.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-14 Site: JTC00589 Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00589	A8000 / M9 Spur Northbound	Aug-11	3,326	4,449
		Aug-15	3,600	4,350
		Sep-15	3,755	4,382
		Oct-15	3,316	4,079
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	3,371	4,318
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>3,511</b>	<b>4,282</b>	

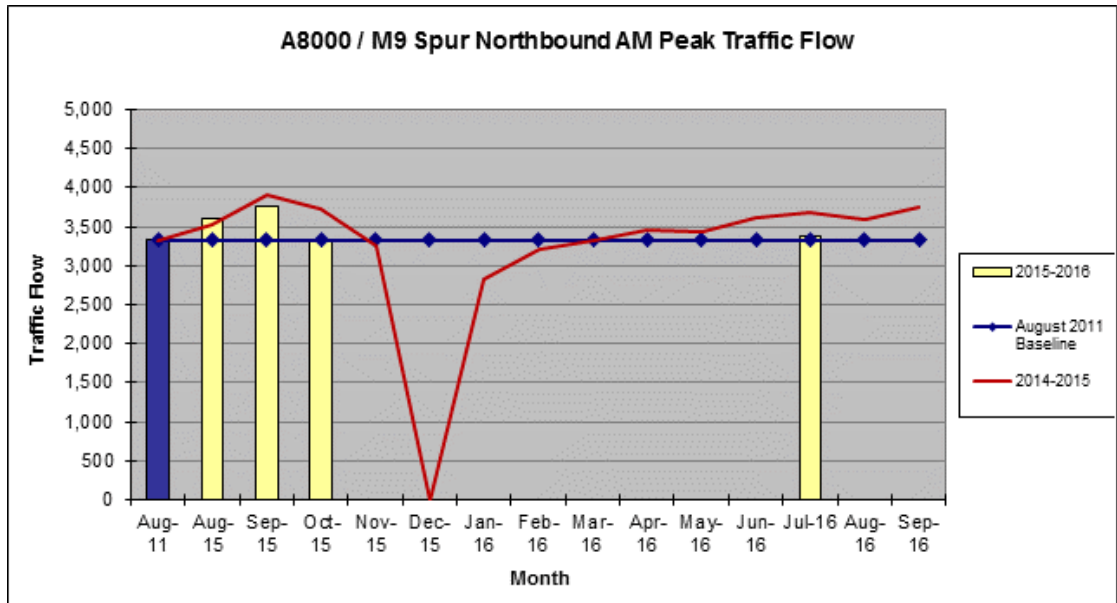


Figure 3-21 Monthly AM Peak Flows on the A8000 / M9 Spur Northbound

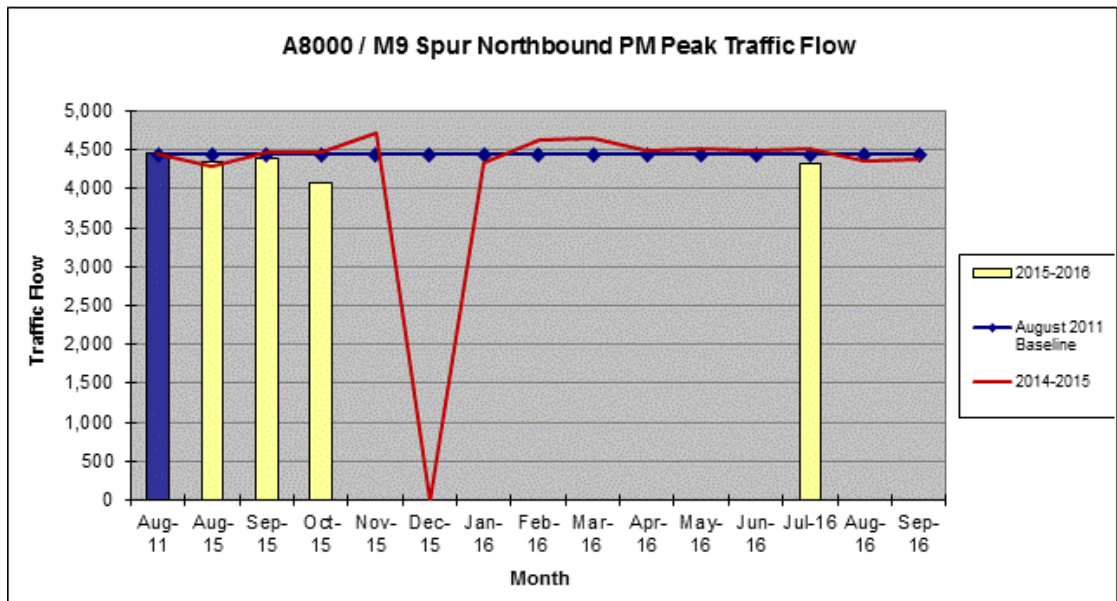


Figure 3-22 Monthly PM Peak Flows on the A8000 / M9 Spur Northbound

### 3.4.3 Monthly Average HGV Flows

Table 3-15 Site: JTC00589 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	NB	
JTC00589	A8000 / M9 Spur Northbound	Aug-11	1,122	
		Aug-15	1,279	
		Sep-15	1,454	
		Oct-15	1,241	
		Nov-15	No Data	
		Dec-15	No Data	
		Jan-16	No Data	
		Feb-16	No Data	
		Mar-16	No Data	
		Apr-16	No Data	
		May-16	No Data	
		Jun-16	No Data	
		Jul-16	1,204	
		Aug-16	No Data	
		Sep-16	No Data	
		<b>Annual Average</b>		<b>1,294</b>

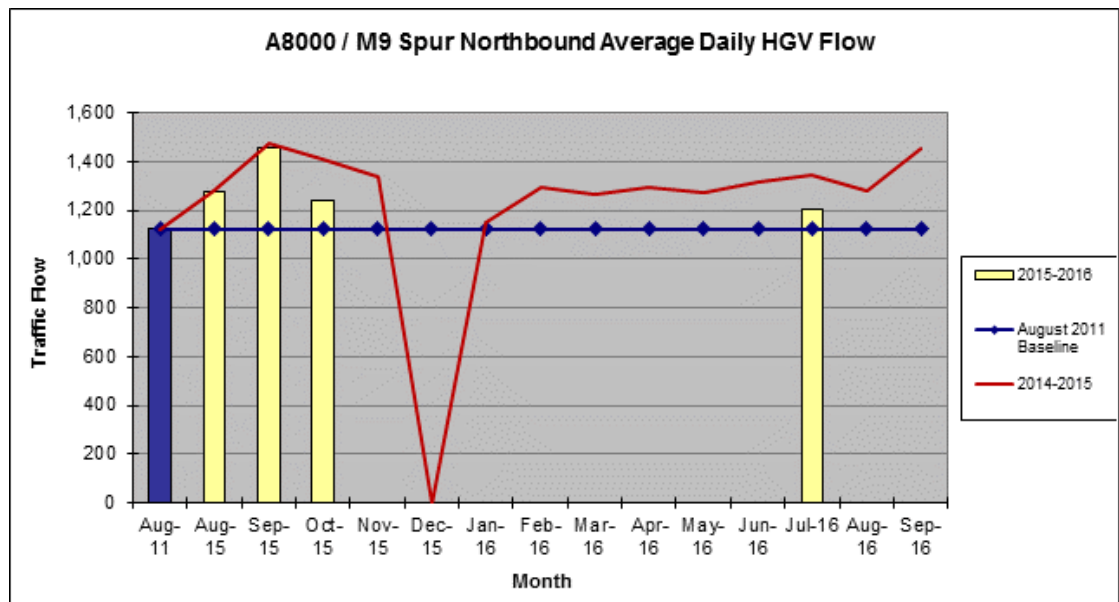


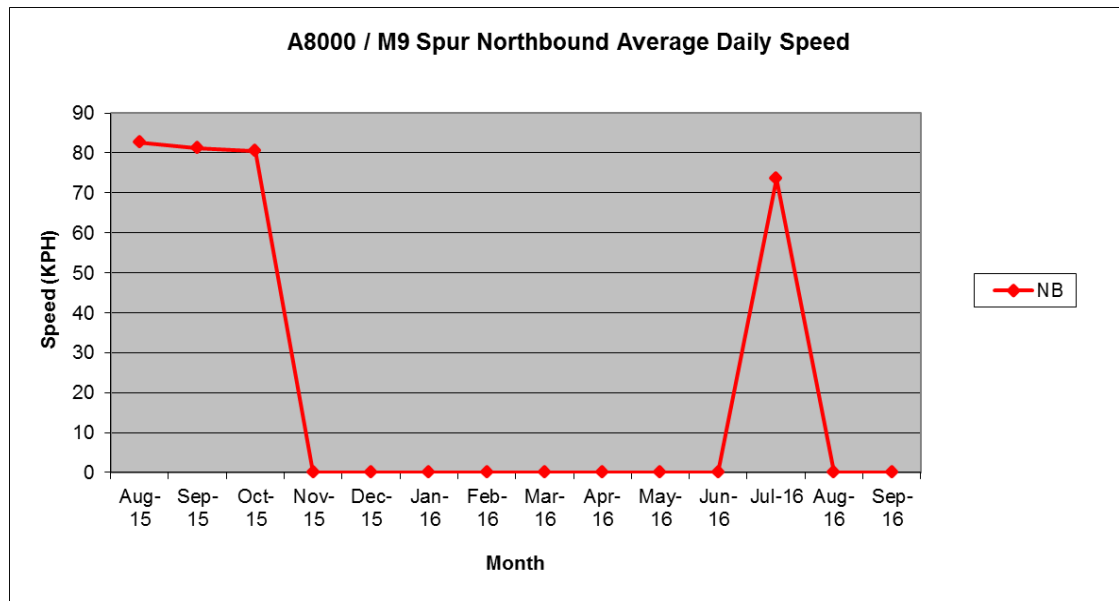
Figure 3-23 Monthly HGV Traffic Flows on the A8000 / M9 Spur Northbound



### 3.4.4 Monthly Average All Vehicles Traffic Speeds

**Table 3-16 Site: JTC00589 Average Monthly Traffic Speeds (KPH) (All Vehicles) - August 2015 to September 2016**

Counter	Location	Date	NB
JTC00589	A8000 / M9 Spur Northbound	Aug-15	83
		Sep-15	81
		Oct-15	80
		Nov-15	No Data
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	74
		Aug-16	No Data
		Sep-16	No Data



**Figure 3-24 Average Monthly Traffic Speeds (KPH) on the A8000 / M9 Spur Northbound**

### 3.5 Traffic Counter JTC06450 - A823 (M) M90 Junction 2 On-Ramp Northbound

Summary of statistics between August 2015 and September 2016:

- Traffic levels follow a similar pattern to the previous monitoring period, but are generally higher.
- Higher than normal HGV traffic levels observed in December 2015, January 2016 and February 2016 is likely due to the restrictions in place on the FRB during these months.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.5.1 Monthly Average Traffic Flows

**Table 3-17 Site: JTC06450 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
JTC06450	A823 (M) M90 Junction 2 On-Ramp Northbound	Aug-11	No Data
		Aug-15	3,422
		Sep-15	3,608
		Oct-15	3,418
		Nov-15	3,554
		Dec-15	3,490
		Jan-16	3,383
		Feb-16	3,784
		Mar-16	3,913
		Apr-16	3,744
		May-16	3,828
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
	<b>Annual Average</b>	<b>3,614</b>	

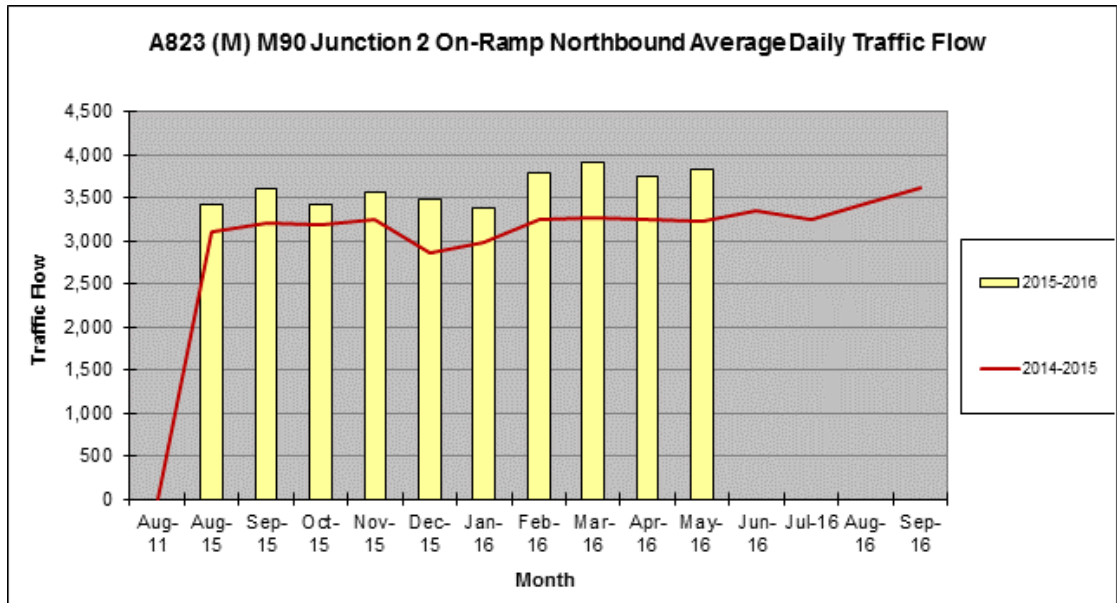


Figure 3-25 Monthly AADTs on the A823 (M) M90 Junction 2 On-Ramp Northbound

### 3.5.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-18 Site: JTC06450 Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC06450	A823 (M) M90 Junction 2 On-Ramp Northbound	Aug-11	No Data	No Data
		Aug-15	529	803
		Sep-15	588	859
		Oct-15	556	843
		Nov-15	620	1,078
		Dec-15	557	1,008
		Jan-16	566	1,064
		Feb-16	640	1,219
		Mar-16	670	1,202
		Apr-16	633	1,194
		May-16	649	1,230
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>601</b>	<b>1,050</b>	

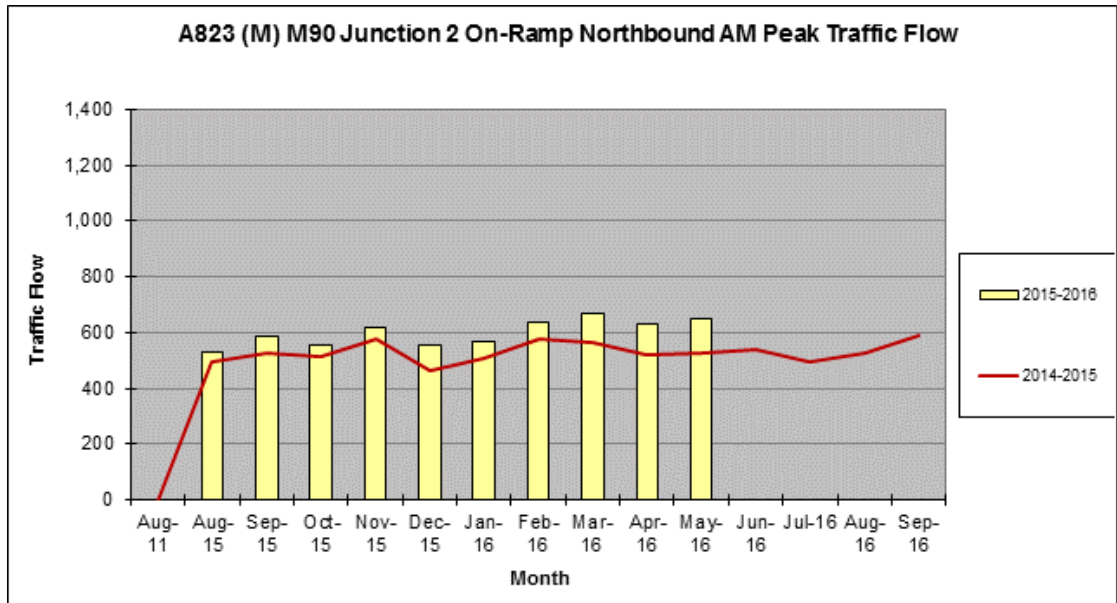


Figure 3-26 Monthly AM Peak Flows on the A823 (M) M90 Junction 2 On-Ramp Northbound

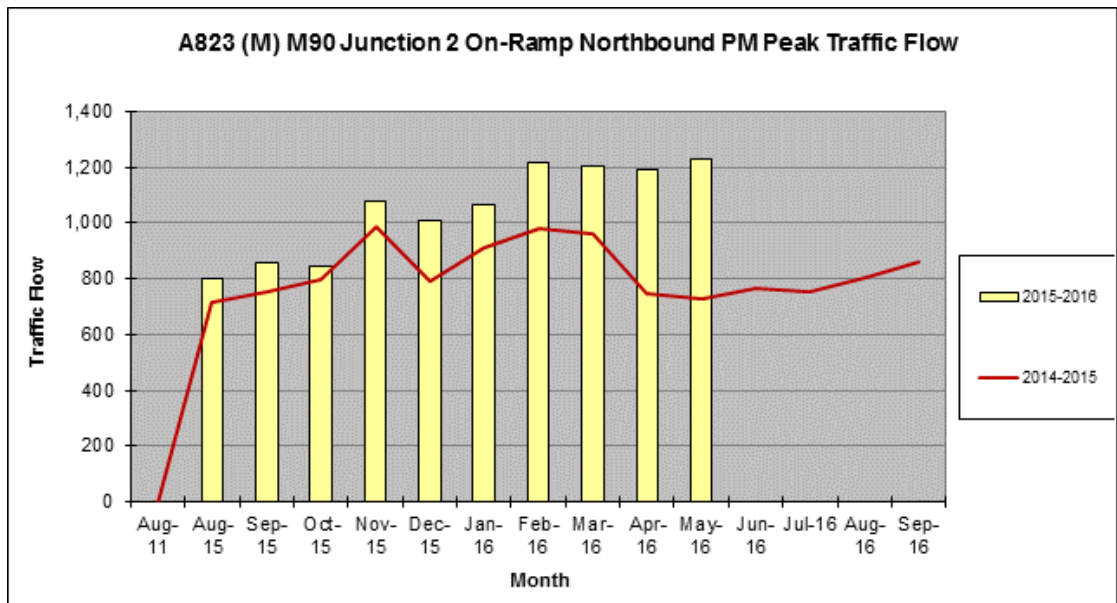


Figure 3-27 Monthly PM Peak Flows on the A823 (M) M90 Junction 2 On-Ramp Northbound

### 3.5.3 Monthly Average HGV Flows

Table 3-19 Site: JTC06450 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	NB
JTC06450	A823 (M) M90 Junction 2 On-Ramp Northbound	Aug-11	No Data
		Aug-15	40
		Sep-15	50
		Oct-15	52
		Nov-15	56
		Dec-15	90
		Jan-16	77
		Feb-16	84
		Mar-16	56
		Apr-16	52
		May-16	56
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	<b>61</b>

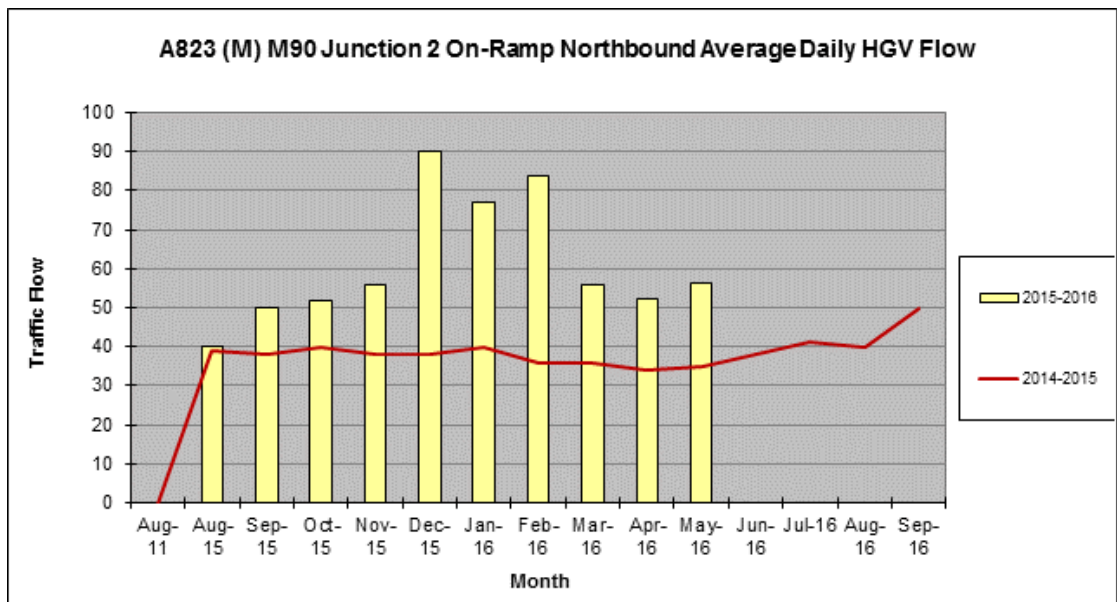
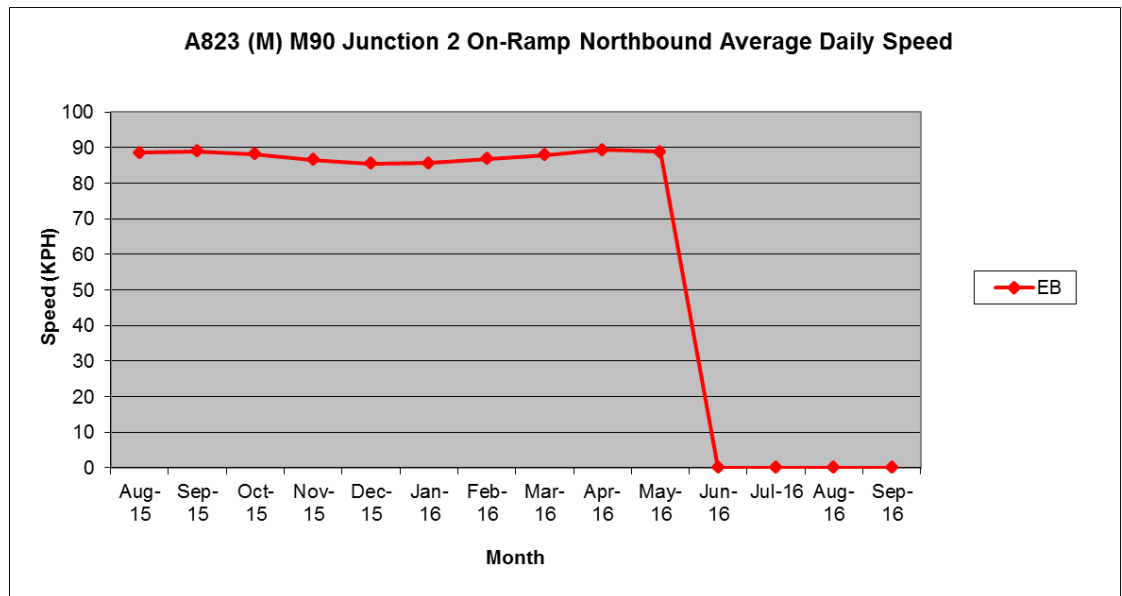


Figure 3-28 Monthly HGV Traffic Flows on the A823 (M) M90 Junction 2 On-Ramp Northbound

### 3.5.4 Monthly Average All Vehicles Traffic Speeds

**Table 3-20 Site: JTC06450 Average Monthly Traffic Speeds (KPH) (All Vehicles) - August 2015 to September 2016**

Counter	Location	Date	NB
JTC06450	A823 (M) M90 Junction 2 On-Ramp Northbound	Aug-15	89
		Sep-15	89
		Oct-15	88
		Nov-15	87
		Dec-15	85
		Jan-16	86
		Feb-16	87
		Mar-16	88
		Apr-16	89
		May-16	89
		Jun-16	87
		Jul-16	89
		Aug-16	88
Sep-16	89		



**Figure 3-29 Average Monthly Traffic Speeds (KPH) on the A823 (M) M90 Junction 2 On-Ramp Northbound**

### 3.6 Traffic Counter JTC06311 - M90 at J1 Northbound

Summary of statistics between August 2015 and September 2016:

- Traffic flows are indicative of typical seasonal variation; higher flows over the summer months.
- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower flows for HGVs through December 2015, January 2016 and February 2016 due to the FRB closure and HGV restrictions.
- Traffic flows are slightly lower than the previous monitoring period.

#### 3.6.1 Monthly Average Traffic Flows

**Table 3-21 Site: JTC06311 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
JTC06311	M90 at J1 Northbound	Aug-11	24,497
		Aug-15	27,077
		Sep-15	26,891
		Oct-15	25,412
		Nov-15	25,323
		Dec-15	6,901
		Jan-16	20,046
		Feb-16	23,414
		Mar-16	25,490
		Apr-16	26,166
		May-16	25,531
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	<b>23,225</b>

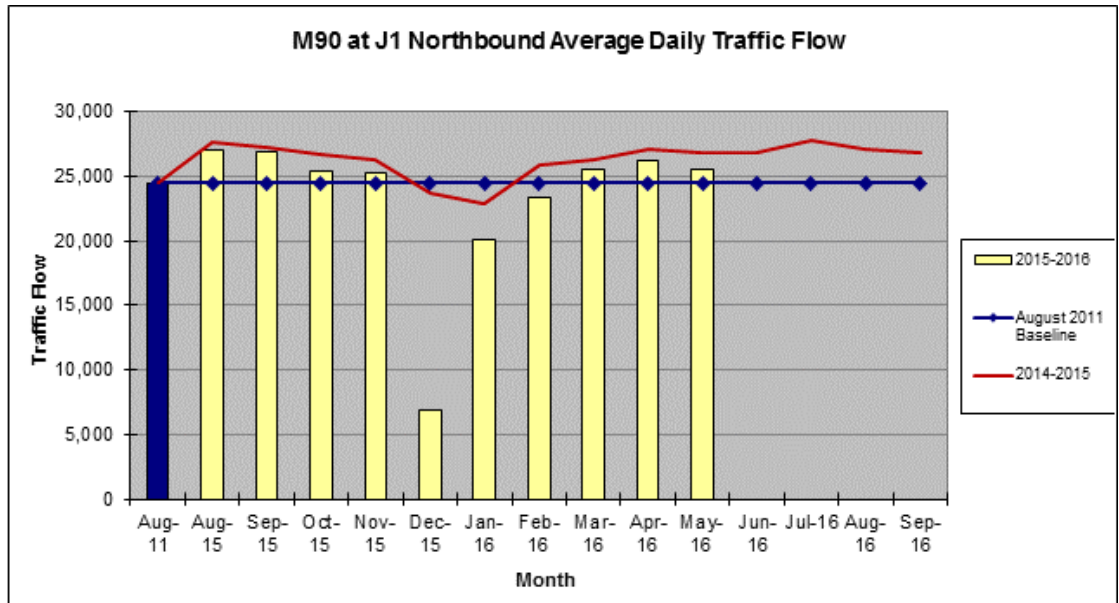


Figure 3-30 Monthly AADTs on the M90 at J1 Northbound

### 3.6.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-22 Site: JTC06311 Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC06311	M90 at J1 Northbound	Aug-11	4,286	5,646
		Aug-15	4,584	5,591
		Sep-15	4,815	5,499
		Oct-15	4,507	5,348
		Nov-15	4,504	6,067
		Dec-15	912	1,436
		Jan-16	3,312	5,302
		Feb-16	4,150	5,876
		Mar-16	4,695	6,289
		Apr-16	4,478	6,311
		May-16	4,475	6,176
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
Sep-16	No Data	No Data		
		<b>Annual Average</b>	<b>4,043</b>	<b>5,390</b>



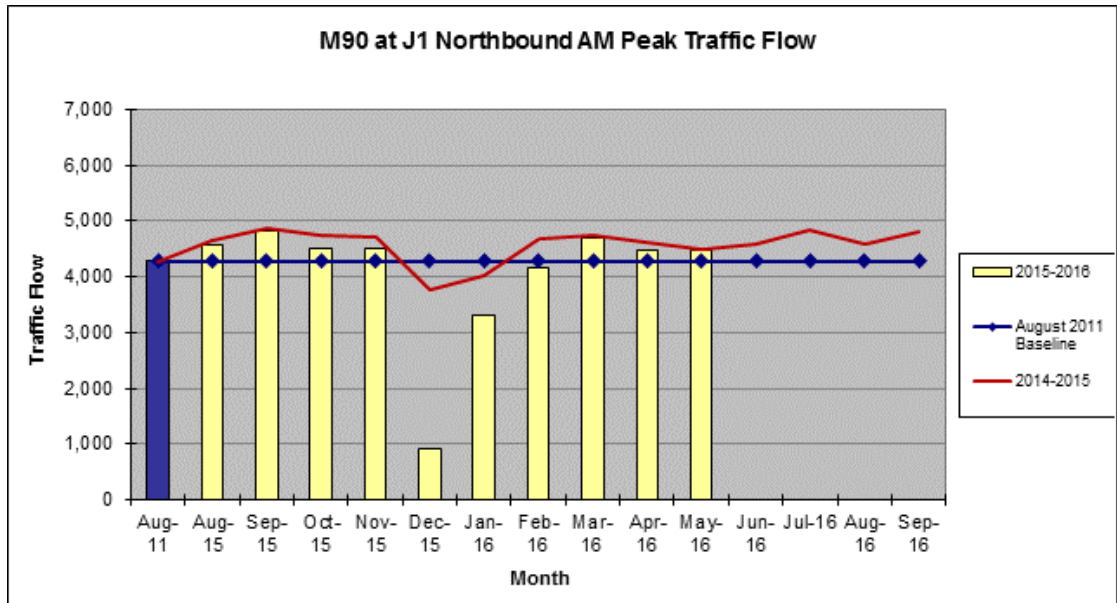


Figure 3-31 Monthly AM Peak Flows on the M90 at J1 Northbound

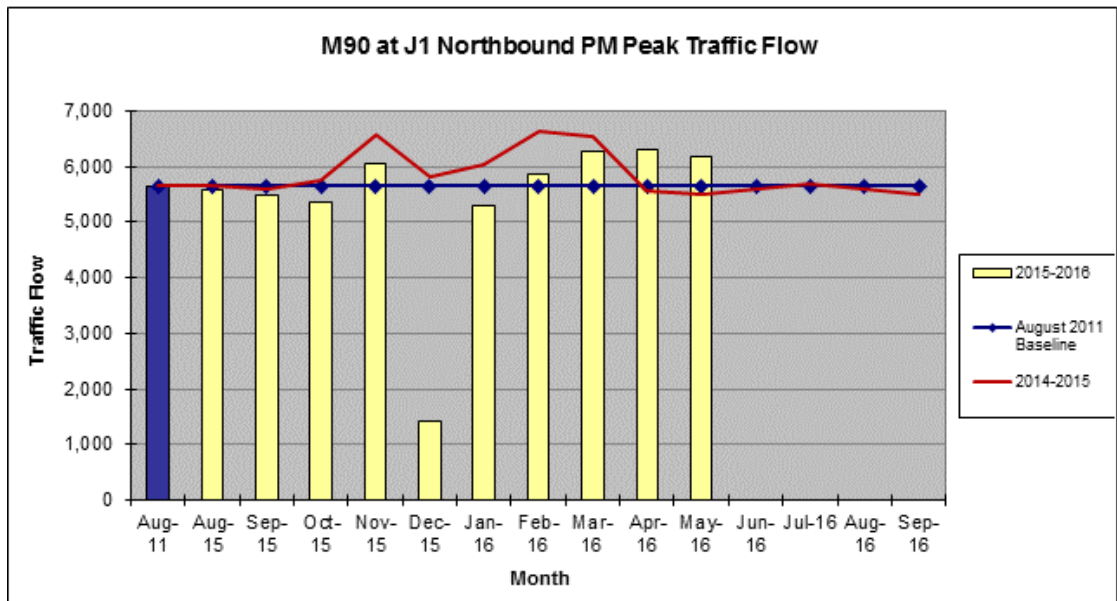


Figure 3-32 Monthly PM Peak Flows on the M90 at J1 Northbound

### 3.6.3 Monthly Average HGV Flows

Table 3-23 Site: JTC06311 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	NB
JTC06311	M90 at J1 Northbound	Aug-11	1,206
		Aug-15	830
		Sep-15	1,034
		Oct-15	1,160
		Nov-15	1,210
		Dec-15	336
		Jan-16	830
		Feb-16	1,301
		Mar-16	1,868
		Apr-16	1,528
		May-16	1,612
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	<b>1,171</b>

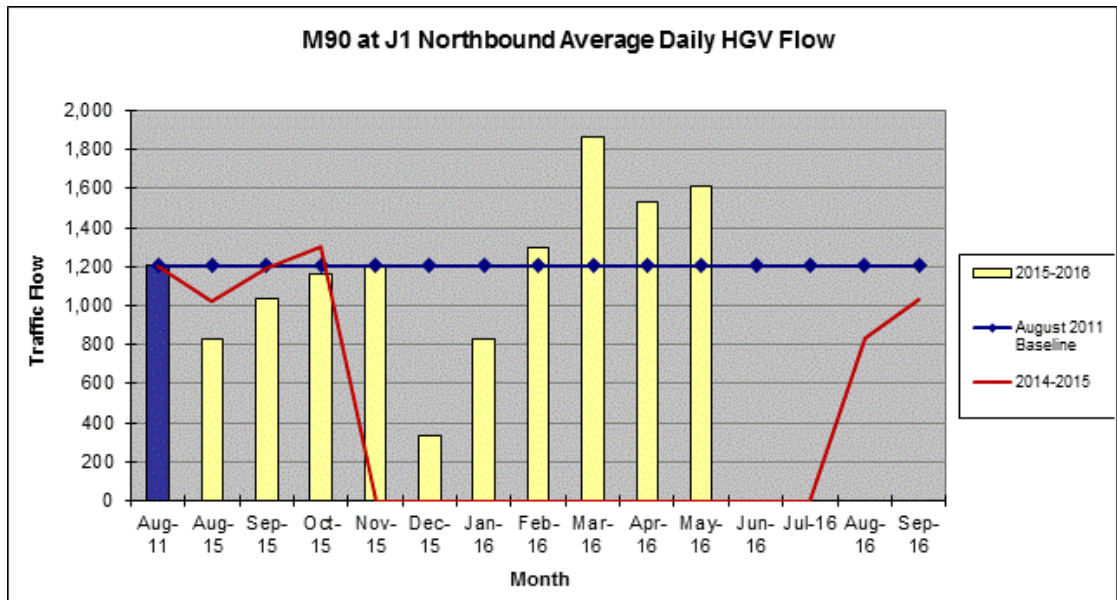
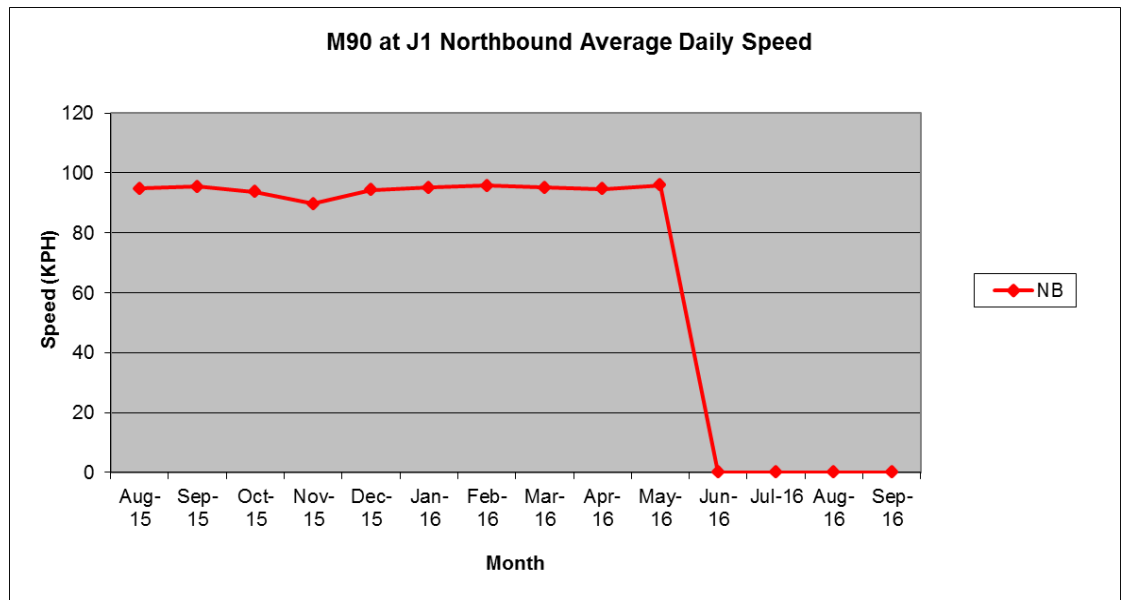


Figure 3-33 Monthly HGV Traffic Flows on the M90 at J1 Northbound

### 3.6.4 Monthly Average All Vehicles Traffic Speeds

**Table 3-24 Site: JTC06311 Average Monthly Traffic Speeds (KPH) (All Vehicles) - August 2015 to September 2016**

Counter	Location	Date	NB
JTC06311	M90 at J1 Northbound	Aug-15	95
		Sep-15	95
		Oct-15	94
		Nov-15	90
		Dec-15	94
		Jan-16	95
		Feb-16	96
		Mar-16	95
		Apr-16	95
		May-16	96
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data



**Figure 3-34 Average Monthly Traffic Speeds (KPH) on the M90 at J1 Northbound**

### 3.7 Traffic Counter JTC06322 - M90 at J1 Southbound

Summary of statistics between August 2015 and September 2016:

- Traffic flows follow a similar pattern to the previous monitoring period.
- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016 and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows are slightly lower than the previous monitoring period and lower than the 2011 baseline.
- Average traffic speeds are lower from December 2015 due to a 40mph speed limit being in place.

#### 3.7.1 Monthly Average Traffic Flows

**Table 3-25 Site: JTC06322 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
JTC06322	M90 at J1 Southbound	Aug-11	30,058
		Aug-15	26,875
		Sep-15	26,246
		Oct-15	24,990
		Nov-15	23,749
		Dec-15	8,389
		Jan-16	19,981
		Feb-16	22,545
		Mar-16	24,655
		Apr-16	25,274
		May-16	24,963
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
	<b>Annual Average</b>	<b>22,767</b>	

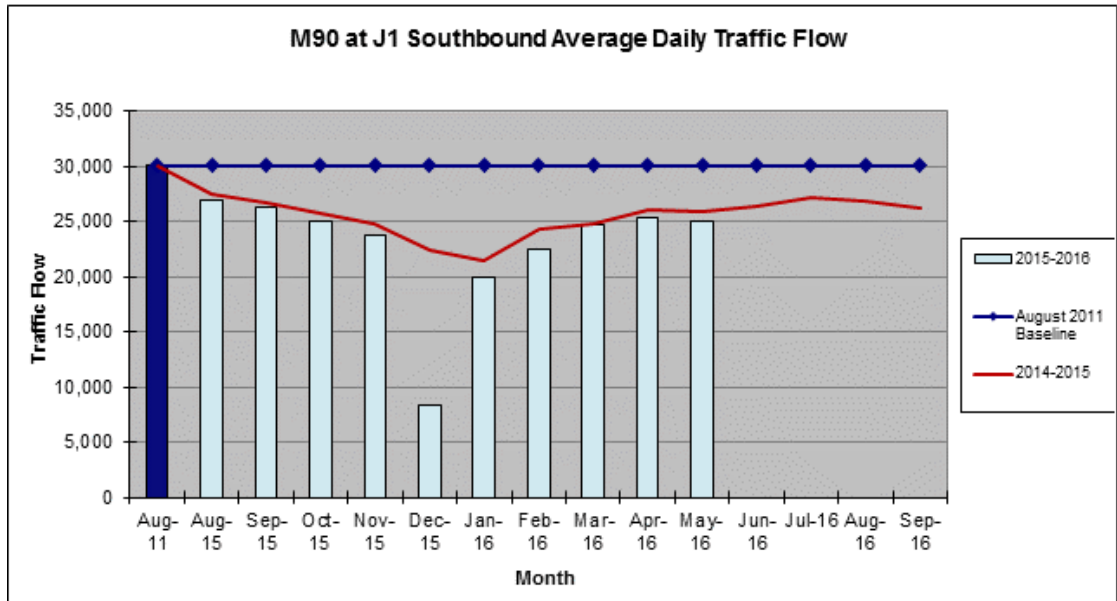


Figure 3-35 Monthly AADTs on the M90 at J1 Southbound

### 3.7.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-26 Site: JTC06322 Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC06322	M90 at J1 Southbound	Aug-11	5,731	6,437
		Aug-15	4,741	4,615
		Sep-15	4,705	4,568
		Oct-15	4,443	4,489
		Nov-15	3,905	5,040
		Dec-15	1,094	1,562
		Jan-16	3,405	4,416
		Feb-16	3,949	4,886
		Mar-16	4,438	5,364
		Apr-16	4,302	5,353
		May-16	4,218	5,371
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>3,920</b>	<b>4,566</b>	

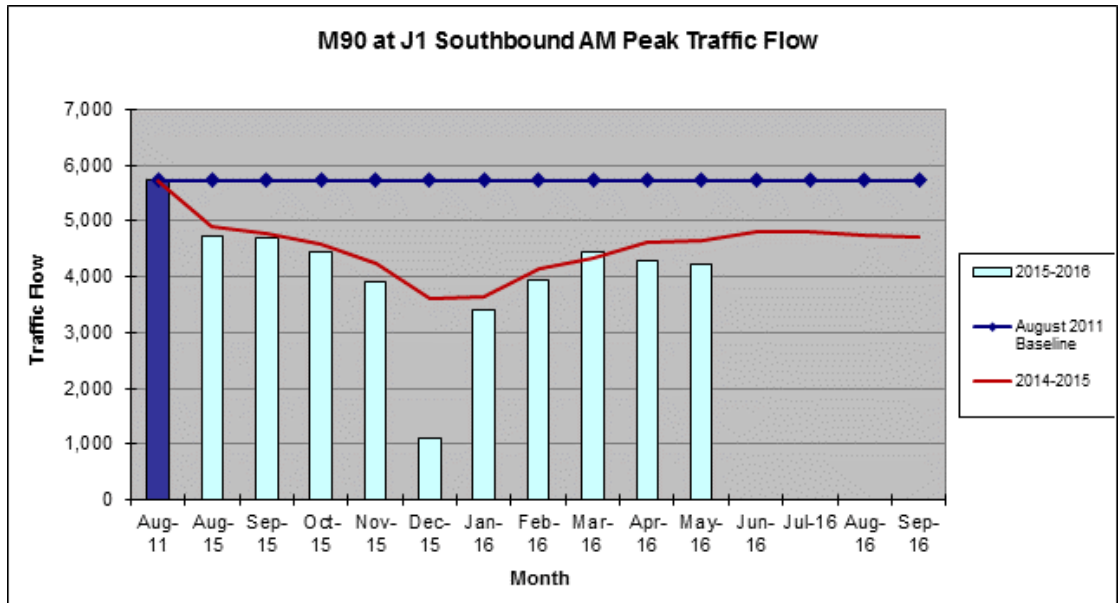


Figure 3-36 Monthly AM Peak Flows on the M90 at J1 Southbound

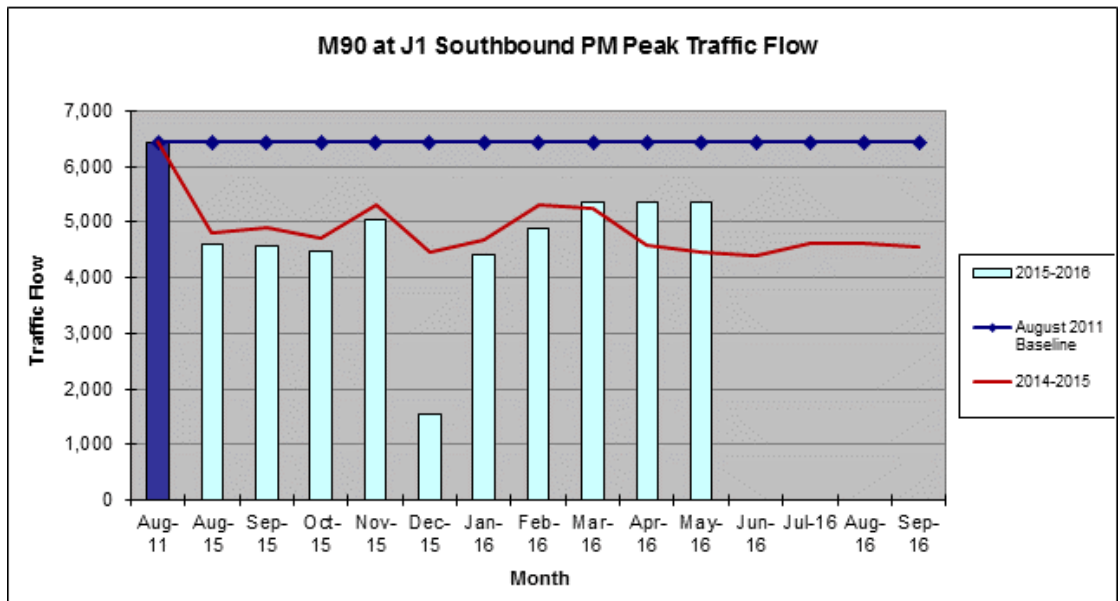


Figure 3-37 Monthly PM Peak Flows on the M90 at J1 Southbound

### 3.7.3 Monthly Average HGV Flows

Table 3-27 Site: JTC06322 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	SB
JTC06322	M90 at J1 Southbound	Aug-11	1,305
		Aug-15	1,709
		Sep-15	1,758
		Oct-15	1,632
		Nov-15	1,576
		Dec-15	305
		Jan-16	358
		Feb-16	774
		Mar-16	1,551
		Apr-16	1,518
		May-16	1,476
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data

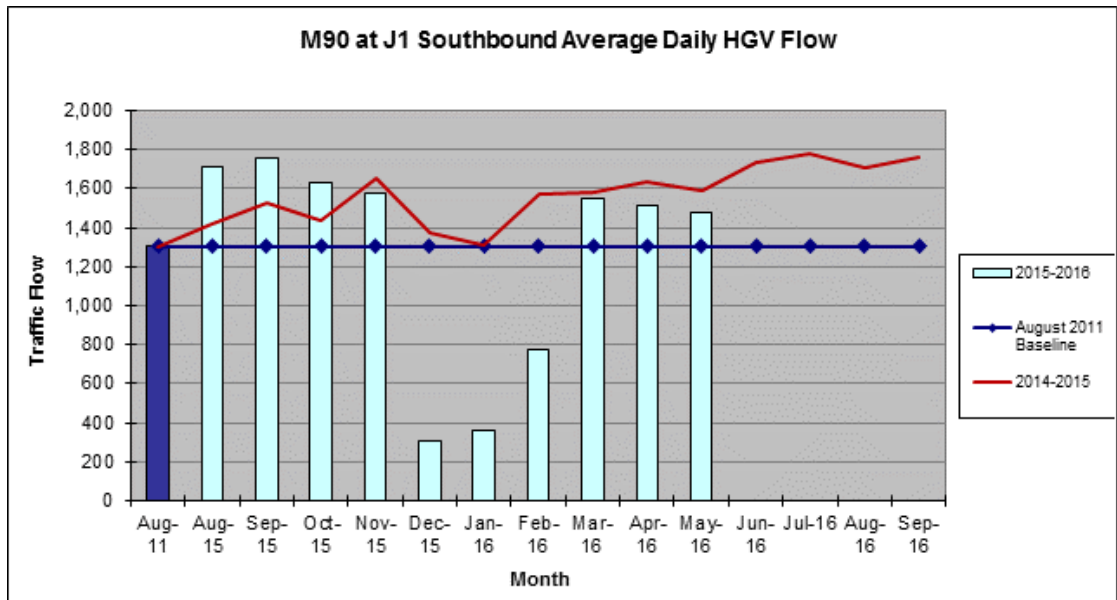
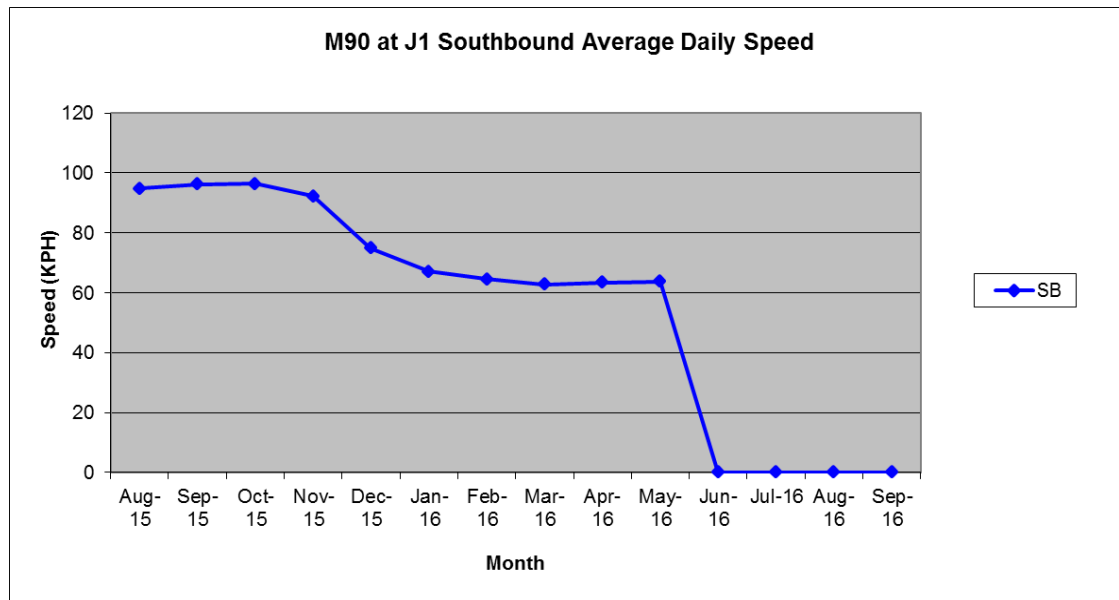


Figure 3-38 Monthly HGV Traffic Flows on the M90 at J1 Southbound

### 3.7.4 Monthly Average All Vehicles Traffic Speeds

**Table 3-28 Site: JTC06322 Average Monthly Traffic Speeds (KPH) (All Vehicles) - August 2015 to September 2016**

Counter	Location	Date	SB
JTC06322	M90 at J1 Southbound	Aug-15	95
		Sep-15	96
		Oct-15	96
		Nov-15	92
		Dec-15	75
		Jan-16	67
		Feb-16	64
		Mar-16	63
		Apr-16	63
		May-16	64
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data



**Figure 3-39 Average Monthly Traffic Speeds (KPH) on the M90 at J1 Southbound**



### 3.8 Traffic Counter NTC01051 - M90 South of J2 Admiralty Southbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016 and February 2016 due to Forth Road Bridge closure and HGV restrictions.
- No data since March 2016 due to counter awaiting loop re-cut.

#### 3.8.1 Monthly Average Traffic Flows

**Table 3-29 Site: NTC01051 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01051	M90 South of J2 Admiralty Southbound	Aug-11	35,475
		Aug-15	34,387
		Sep-15	34,644
		Oct-15	32,462
		Nov-15	30,970
		Dec-15	9,669
		Jan-16	25,550
		Feb-16	29,162
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data

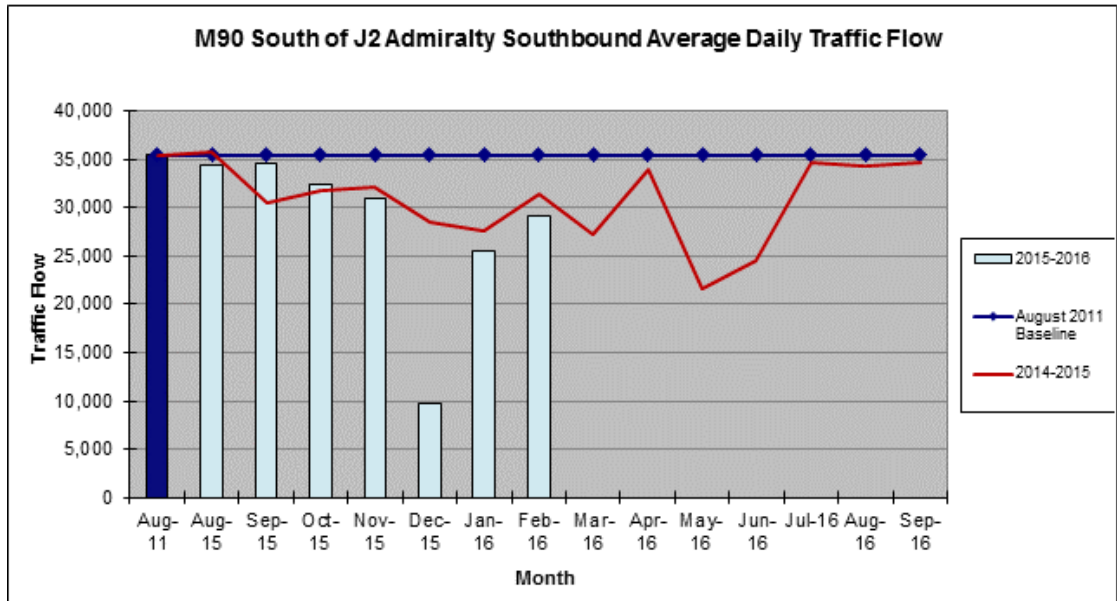


Figure 3-40 Monthly AADTs on the M90 South of J2 Admiralty Southbound

### 3.8.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-30 Site: NTC01051 Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01051	M90 South of J2 Admiralty Southbound	Aug-11	6,775	7,689
		Aug-15	5,998	7,183
		Sep-15	6,460	7,281
		Oct-15	5,965	6,668
		Nov-15	5,873	6,324
		Dec-15	1,373	1,746
		Jan-16	4,803	5,412
		Feb-16	5,615	6,185
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
		<b>Annual Average</b>	<b>5,155</b>	<b>5,829</b>

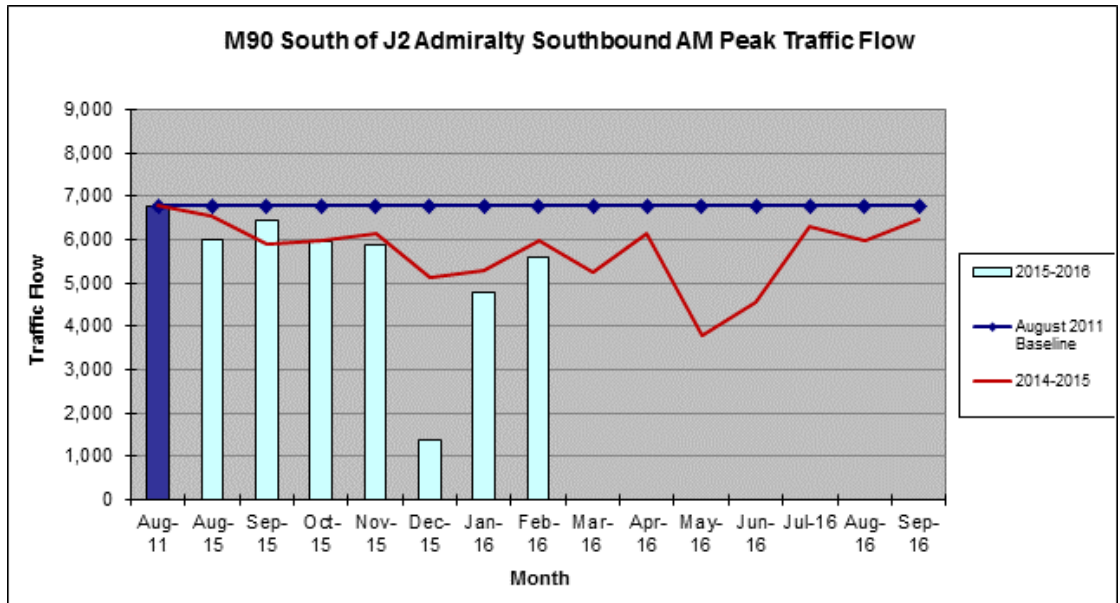


Figure 3-41 Monthly AM Peak Flows on the M90 South of J2 Admiralty Southbound

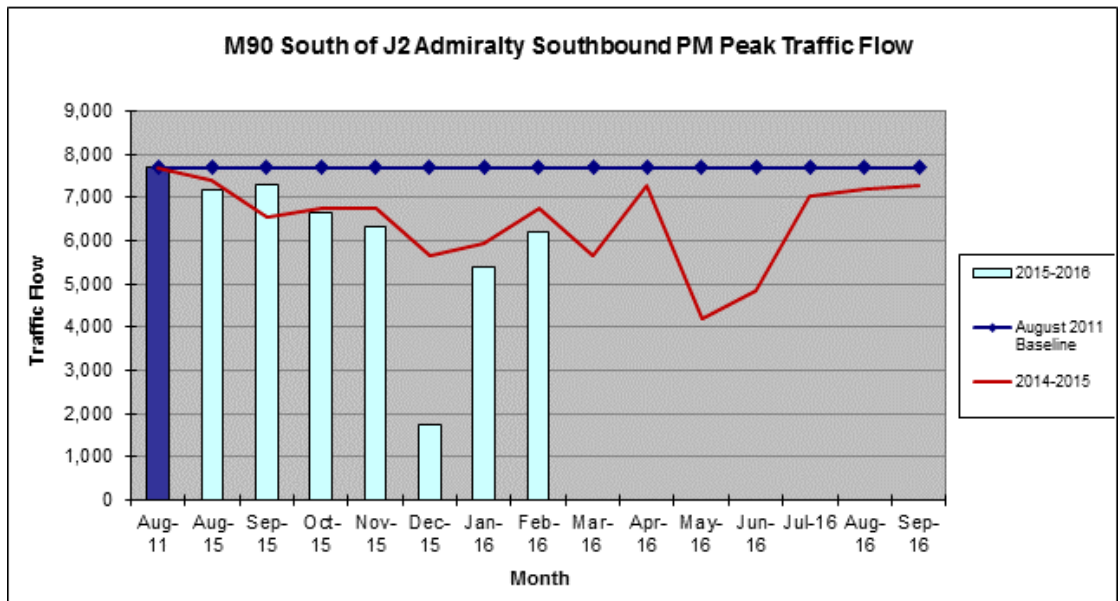


Figure 3-42 Monthly PM Peak Flows on the M90 South of J2 Admiralty Southbound

### 3.8.3 Monthly Average HGV Flows

Table 3-31 Site: NTC01051 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	SB
NTC01051	M90 South of J2 Admiralty Southbound	Aug-11	1,705
		Aug-15	1,778
		Sep-15	1,903
		Oct-15	1,747
		Nov-15	1,671
		Dec-15	261
		Jan-16	175
		Feb-16	607
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data

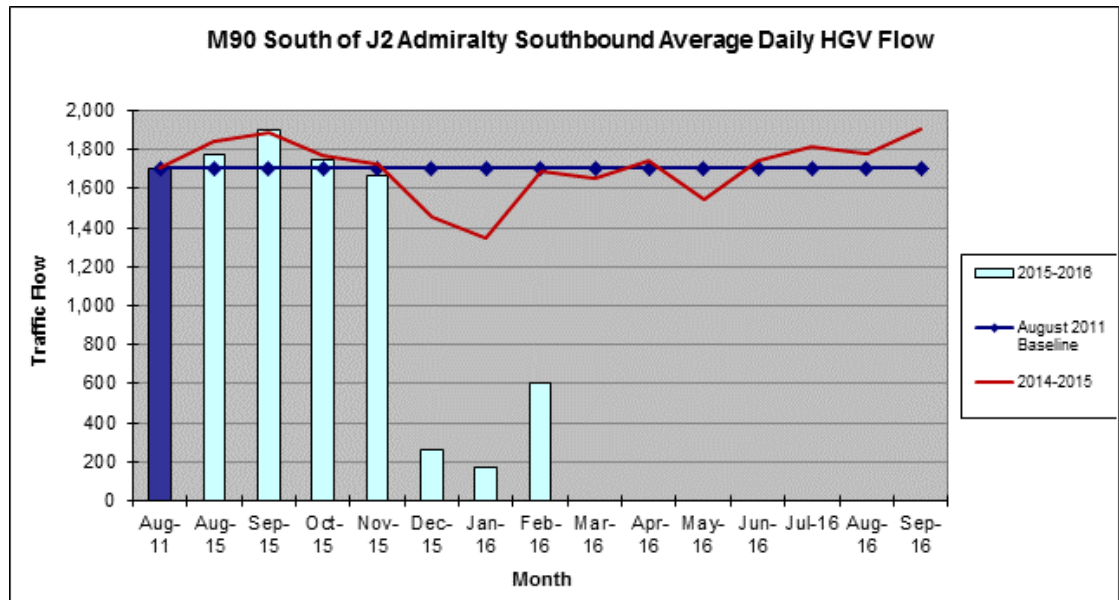


Figure 3-43 Monthly HGV Traffic Flows on the M90 South of J2 Admiralty Southbound

### 3.9 Traffic Counter NTC01050 - M90 South of J2 Admiralty Southbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016 and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows are generally slightly lower than the previous monitoring period.
- No data since March 2016 due to counter awaiting loop re-cut.

#### 3.9.1 Monthly Average Traffic Flows

**Table 3-32 Site: NTC01050 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01050	M90 South of J2 Admiralty Southbound	Aug-11	35,180
		Aug-15	35,429
		Sep-15	34,413
		Oct-15	32,254
		Nov-15	30,809
		Dec-15	10,183
		Jan-16	25,498
		Feb-16	29,093
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	<b>28,240</b>

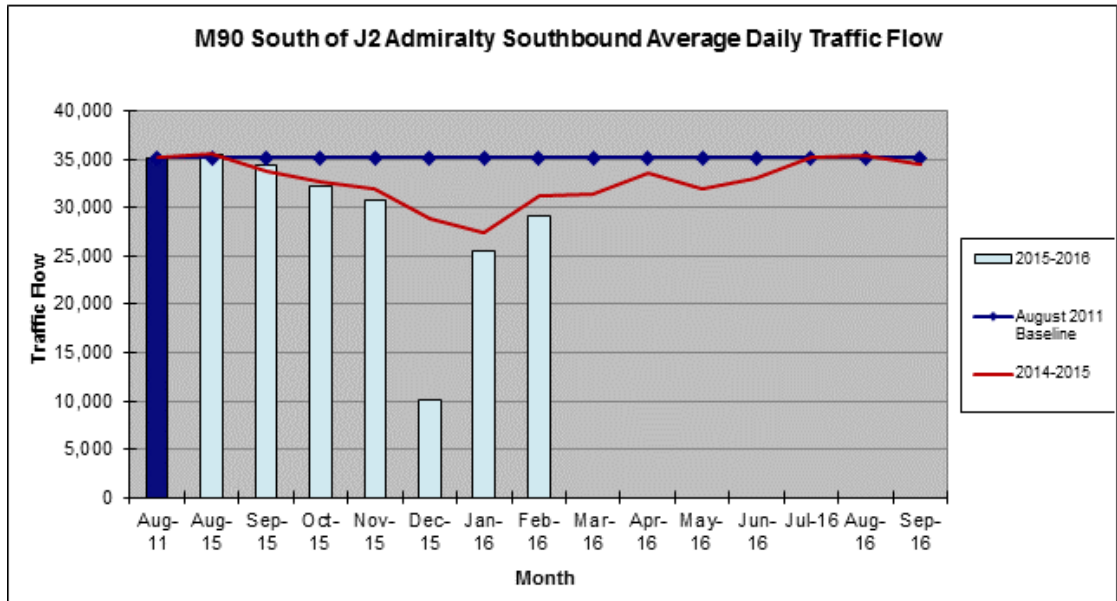


Figure 3-44 Monthly AADTs on the M90 South of J2 Admiralty Southbound

### 3.9.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-33 Site: NTC01050 Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01050	M90 South of J2 Admiralty Southbound	Aug-11	6,740	7,631
		Aug-15	6,250	7,369
		Sep-15	6,459	7,257
		Oct-15	5,978	6,647
		Nov-15	5,883	6,309
		Dec-15	1,445	1,845
		Jan-16	4,823	5,412
		Feb-16	5,640	6,182
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
		<b>Annual Average</b>	<b>5,211</b>	<b>5,860</b>

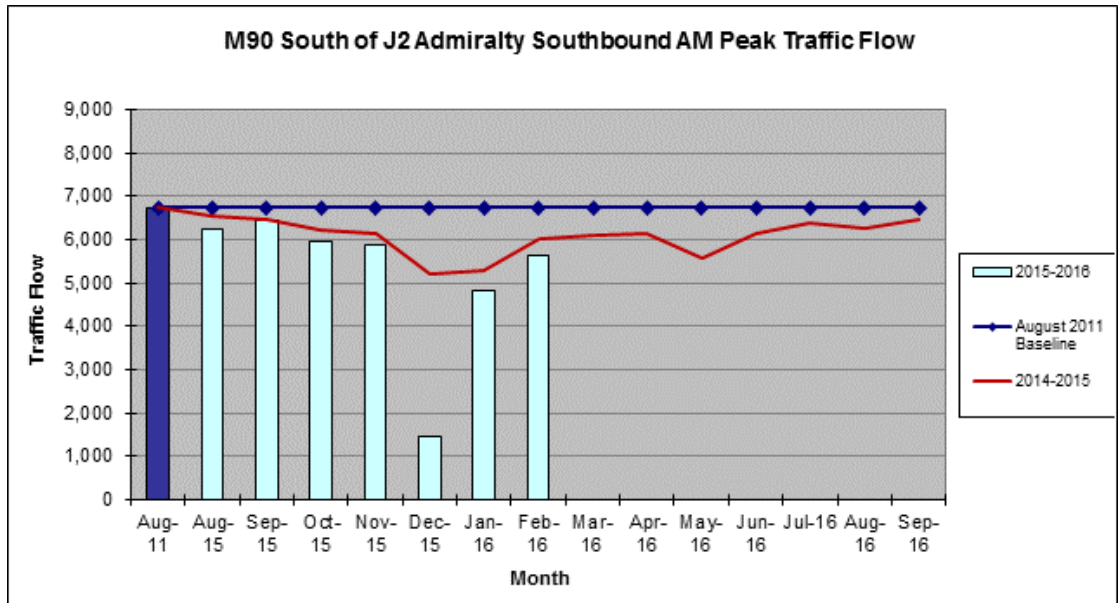


Figure 3-45 Monthly AM Peak Flows on the M90 South of J2 Admiralty Southbound

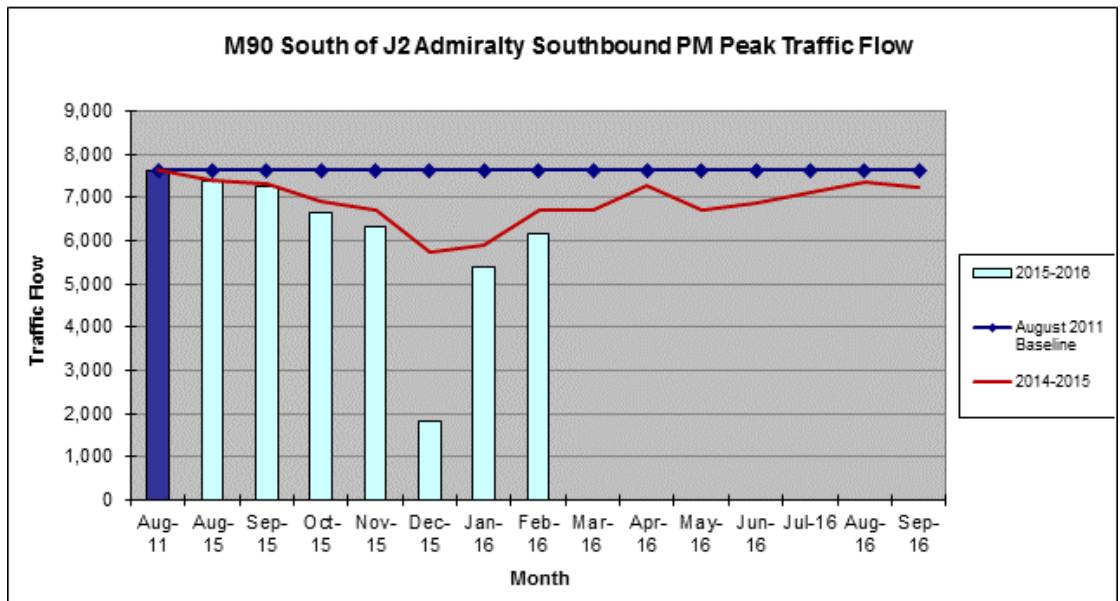


Figure 3-46 Monthly PM Peak Flows on the M90 South of J2 Admiralty Southbound

### 3.9.3 Monthly Average HGV Flows

Table 3-34 Site: NTC01050 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	SB	
NTC01050	M90 South of J2 Admiralty Southbound	Aug-11	1,491	
		Aug-15	1,568	
		Sep-15	1,686	
		Oct-15	1,541	
		Nov-15	1,484	
		Dec-15	238	
		Jan-16	153	
		Feb-16	570	
		Mar-16	No Data	
		Apr-16	No Data	
		May-16	No Data	
		Jun-16	No Data	
		Jul-16	No Data	
		Aug-16	No Data	
		Sep-16	No Data	
		<b>Annual Average</b>		<b>1,034</b>

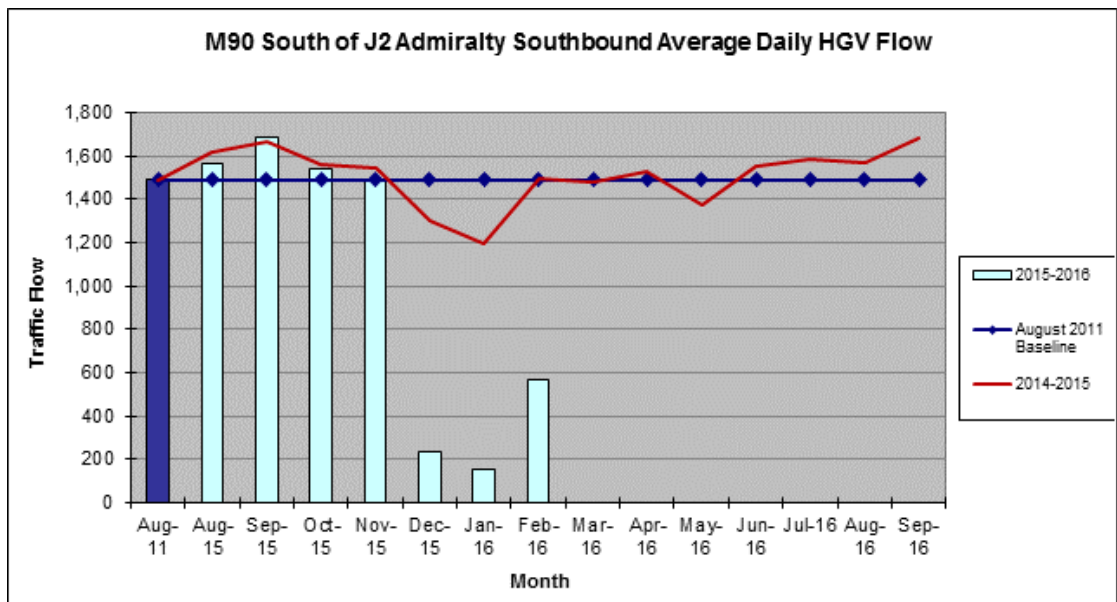


Figure 3-47 Monthly HGV Traffic Flows on the M90 South of J2 Admiralty Southbound



### 3.10 Traffic Counter NTCNT005 - M90 South of J1 Southbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016 and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows are indicative of typical seasonal variation; with higher flows over the summer months.
- Traffic flows are slightly lower than the previous monitoring period.

#### 3.10.1 Monthly Average Traffic Flows

**Table 3-35 Site: NTCNT005 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTCNT005	M90 South of J1 Southbound	Aug-11	39,686
		Aug-15	40,320
		Sep-15	32,321
		Oct-15	36,865
		Nov-15	35,250
		Dec-15	24,088
		Jan-16	29,080
		Feb-16	33,265
		Mar-16	36,330
		Apr-16	37,216
		May-16	37,582
		Jun-16	38,334
		Jul-16	38,308
		Aug-16	39,876
		Sep-16	38,391
	<b>Annual Average</b>	<b>34,913</b>	

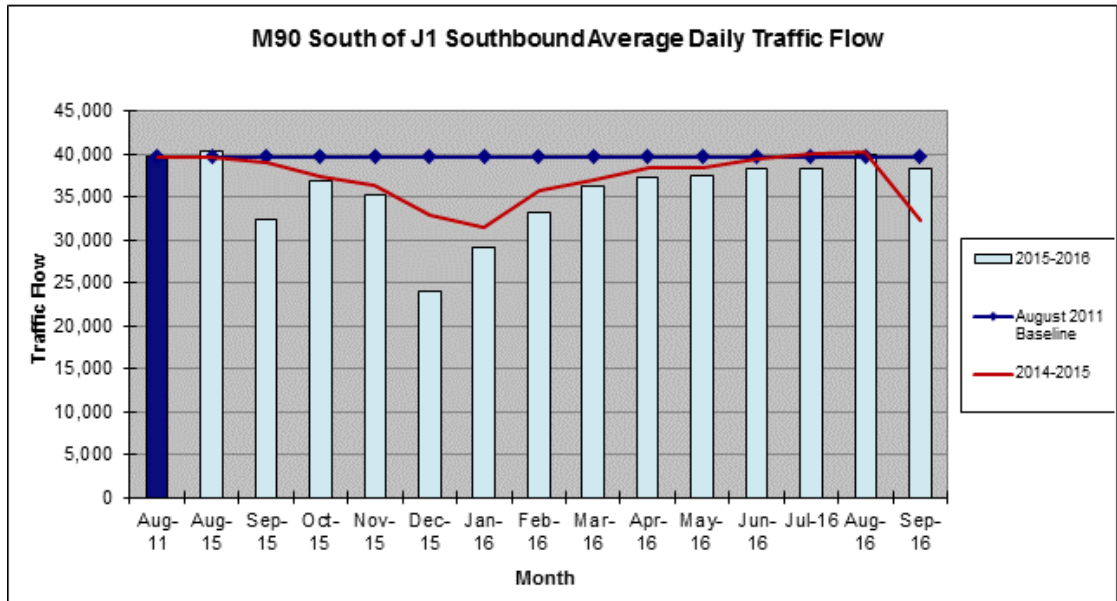


Figure 3-48 Monthly AADTs on the M90 South of J1 Southbound

### 3.10.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-36 Site: NTCNT005 Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTCNT005	M90 South of J1 Southbound	Aug-11	7,918	8,599
		Aug-15	7,377	8,671
		Sep-15	6,510	6,846
		Oct-15	7,235	7,829
		Nov-15	7,167	7,417
		Dec-15	3,463	4,395
		Jan-16	5,734	6,365
		Feb-16	6,758	7,272
		Mar-16	7,154	7,852
		Apr-16	7,163	7,953
		May-16	7,103	8,026
		Jun-16	7,503	8,057
		Jul-16	6,743	7,929
		Aug-16	7,445	8,473
Sep-16	7,400	8,185		
		<b>Annual Average</b>	<b>6,659</b>	<b>7,384</b>

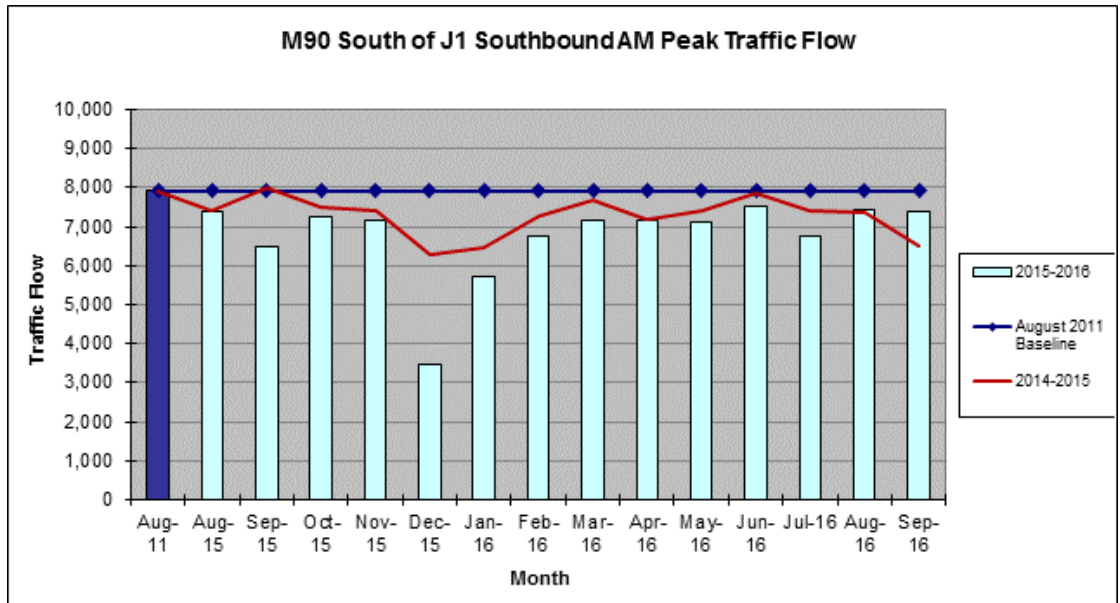


Figure 3-49 Monthly AM Peak Flows on the M90 South of J1 Southbound

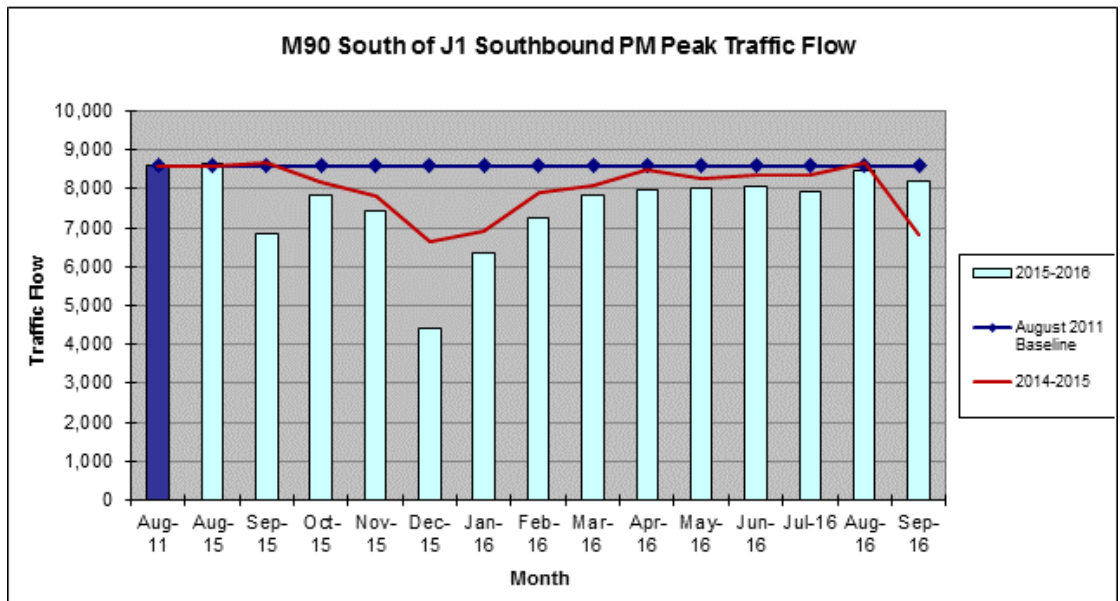


Figure 3-50 Monthly PM Peak Flows on the M90 South of J1 Southbound

### 3.10.3 Monthly Average HGV Flows

Table 3-37 Site: NTCNT005 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	SB
NTCNT005	M90 South of J1 Southbound	Aug-11	1,968
		Aug-15	1,891
		Sep-15	1,872
		Oct-15	1,841
		Nov-15	1,756
		Dec-15	516
		Jan-16	294
		Feb-16	743
		Mar-16	1,820
		Apr-16	1,821
		May-16	1,823
		Jun-16	1,915
		Jul-16	1,863
		Aug-16	1,979
		Sep-16	1,983

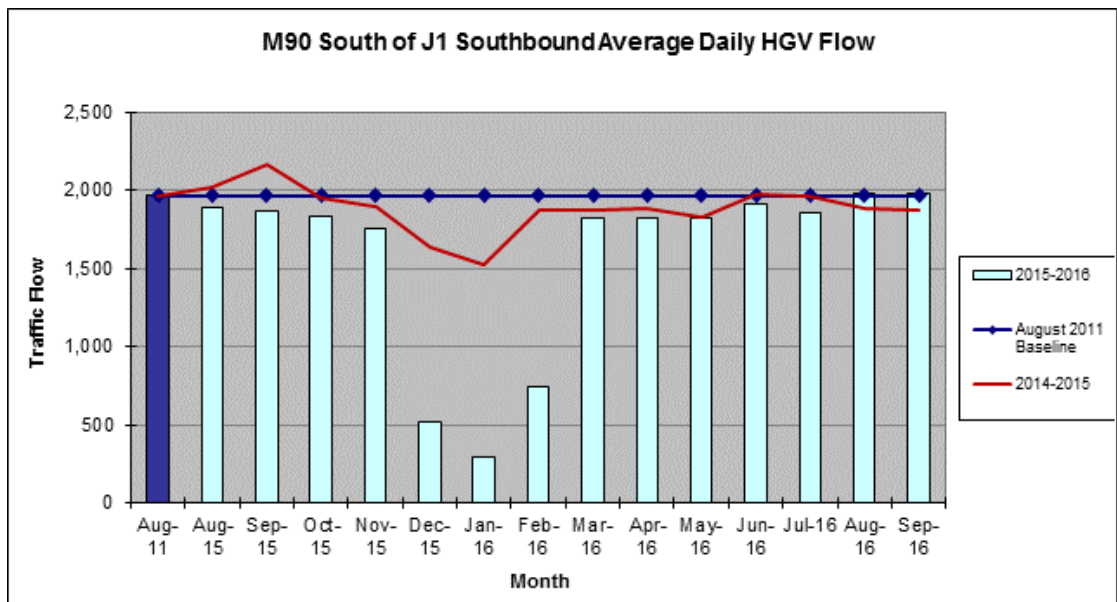


Figure 3-51 Monthly HGV Traffic Flows on the M90 South of J1 Southbound

### 3.11 Traffic Counter NTC01230 - M9 at J1 Newbridge Eastbound

Summary of statistics between August 2015 and September 2016:

- Flows are generally consistent with the previous monitoring period.
- No data is available for the baseline period since construction of J1A didn't commence until after August 2011, therefore comparisons cannot be made.
- Lower traffic flows observed in December 2015, potentially due to users switching from private cars to public transport due to the FRB closure.
- Lower HGV flows through December 2015, January 2016 and February 2016, likely due to FRB closure and HGV restrictions.
- Traffic flows are consistent with the previous monitoring period.

#### 3.11.1 Monthly Average Traffic Flows

**Table 3-38 Site: NTC01230 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB
NTC01230	M9 at J1 Newbridge Eastbound	Aug-11	No Data
		Aug-15	20,454
		Sep-15	20,278
		Oct-15	19,781
		Nov-15	18,922
		Dec-15	12,691
		Jan-16	15,933
		Feb-16	18,162
		Mar-16	19,576
		Apr-16	19,912
		May-16	19,740
		Jun-16	20,047
		Jul-16	19,899
		Aug-16	20,974
		Sep-16	20,431
	<b>Annual Average</b>	<b>18,783</b>	

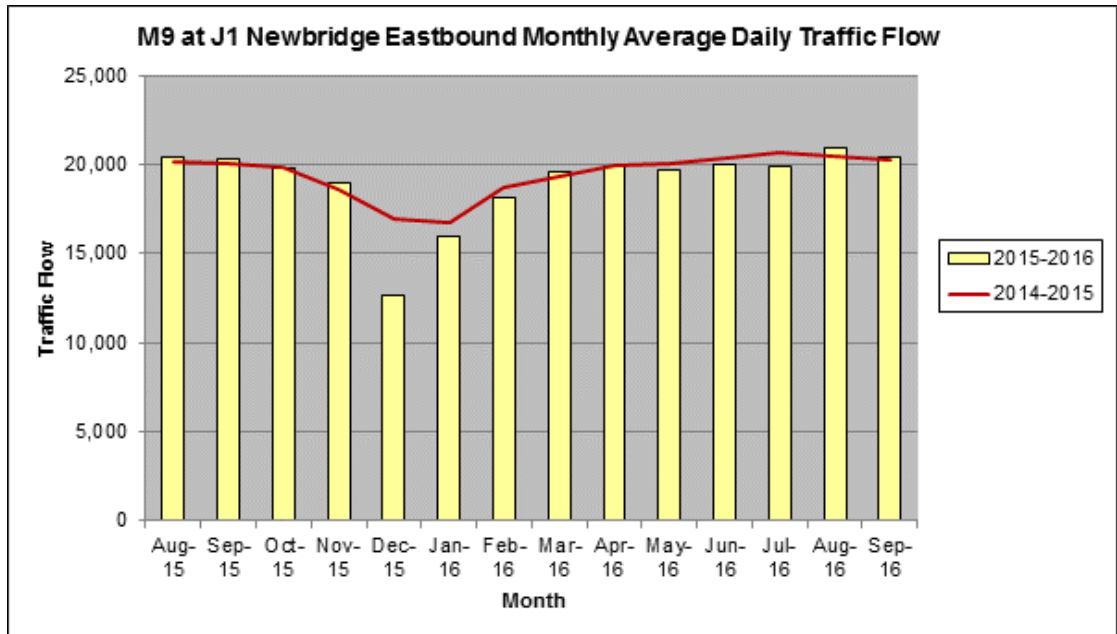


Figure 3-52 Monthly AADTs on the M9 at J1 Newbridge Eastbound

### 3.11.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-39 Site: NTC01230 Monthly Eastbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01230	M9 at J1 Newbridge Eastbound	Aug-11	No Data	No Data
		Aug-15	3,956	4,079
		Sep-15	4,375	3,885
		Oct-15	4,339	3,731
		Nov-15	4,253	3,353
		Dec-15	2,517	2,113
		Jan-16	3,498	3,014
		Feb-16	4,037	3,462
		Mar-16	4,244	3,759
		Apr-16	4,148	3,816
		May-16	4,149	3,742
		Jun-16	4,225	3,738
		Jul-16	3,868	3,730
		Aug-16	4,324	3,971
		Sep-16	4,487	3,885
	<b>Annual Average</b>	<b>3,967</b>	<b>3,535</b>	

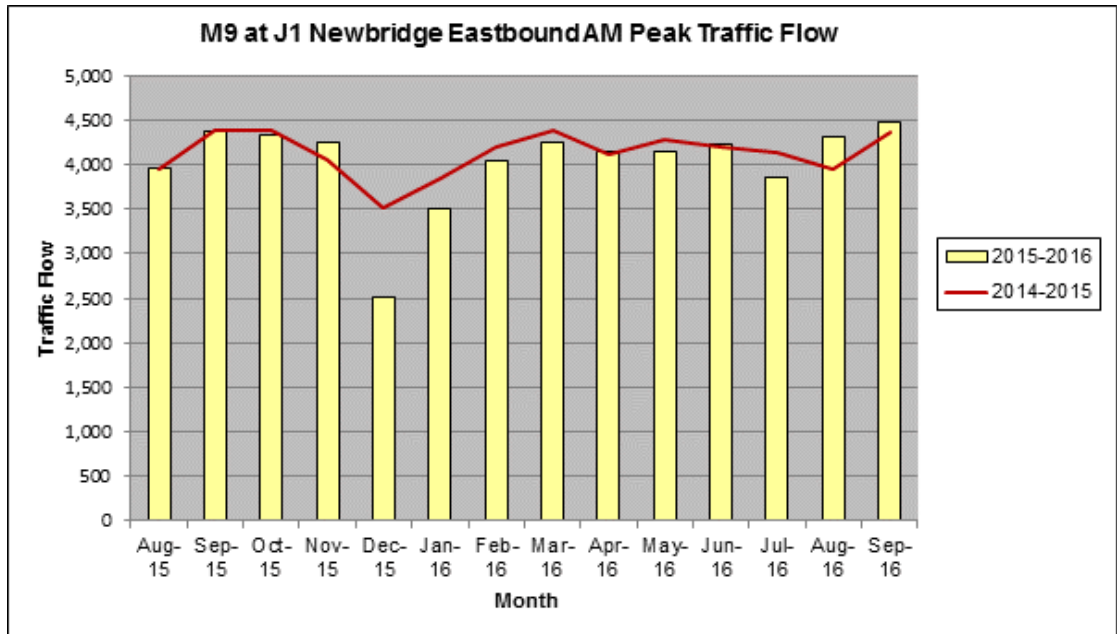


Figure 3-53 Monthly AM Peak Flows on the M9 at J1 Newbridge Eastbound

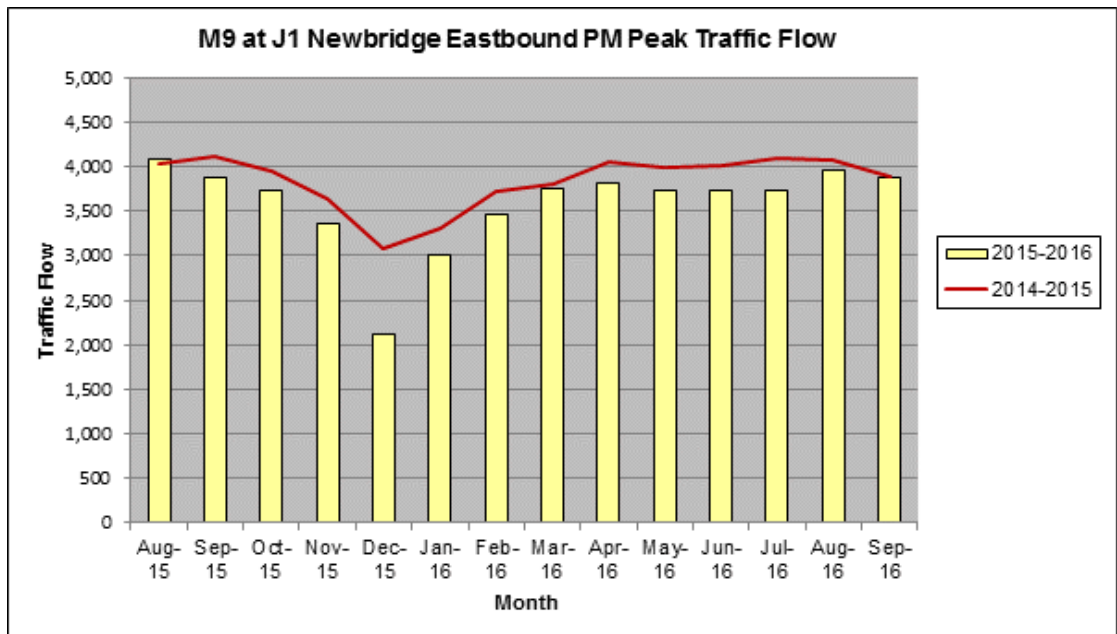


Figure 3-54 Monthly PM Peak Flows on the M9 at J1 Newbridge Eastbound

### 3.11.3 Monthly Average HGV Flows

Table 3-40 Site: NTC01230 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	EB
NTC01230	M9 at J1 Newbridge Eastbound	Aug-11	No Data
		Aug-15	1,535
		Sep-15	1,681
		Oct-15	1,599
		Nov-15	1,587
		Dec-15	795
		Jan-16	779
		Feb-16	1,084
		Mar-16	1,635
		Apr-16	1,591
		May-16	1,606
		Jun-16	1,688
		Jul-16	1,580
		Aug-16	1,678
		Sep-16	1,722
		<b>Annual Average</b>	<b>1,430</b>

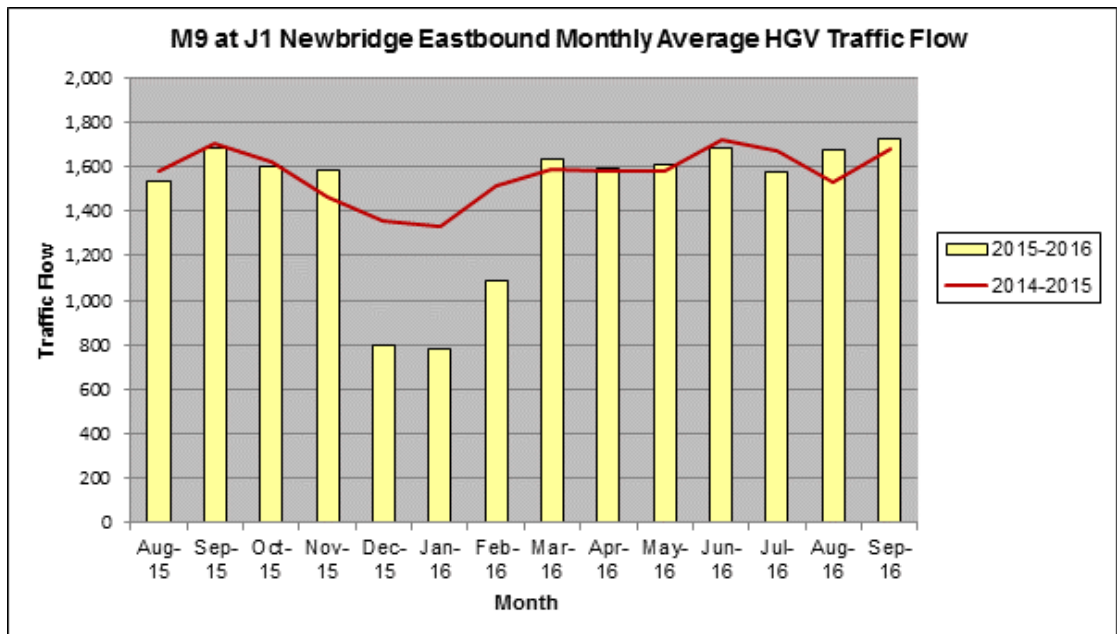


Figure 3-55 Monthly HGV Traffic Flows on the M9 at J1 Newbridge Eastbound



### 3.12 Traffic Counter NTC01101 - M9 J1 Newbridge On-Ramp Westbound

Summary of statistics between August 2015 and September 2016:

- Traffic flows are indicative of typical seasonal variation; with lower flows in January and higher flows over the summer months.
- Unusually low traffic flows have been recorded in October 2015 and February 2016. This decrease in traffic is also observed at counter NTC01231, which is located downstream.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.12.1 Monthly Average Traffic Flows

**Table 3-41 Site: NTC01101 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	WB
NTC01101	M9 J1 Newbridge On-Ramp Westbound	Aug-11	No Data
		Aug-15	12,031
		Sep-15	12,224
		Oct-15	7,181
		Nov-15	11,750
		Dec-15	10,685
		Jan-16	9,201
		Feb-16	6,075
		Mar-16	11,448
		Apr-16	12,209
		May-16	11,561
		Jun-16	12,068
		Jul-16	11,469
		Aug-16	12,067
		Sep-16	11,781
	<b>Annual Average</b>	<b>10,658</b>	

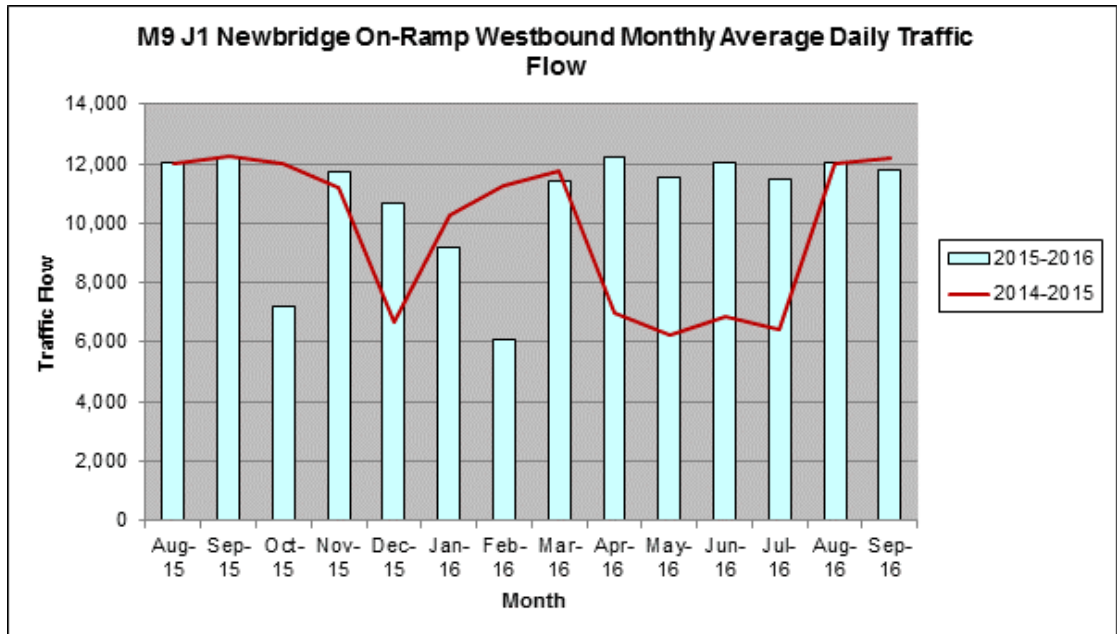


Figure 3-56 Monthly AADTs on the M9 J1 Newbridge On-Ramp Westbound

### 3.12.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-42 Site: NTC01101 Monthly Westbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01101	M9 J1 Newbridge On-Ramp Westbound	Aug-11	No Data	No Data
		Aug-15	1,574	3,037
		Sep-15	1,670	3,179
		Oct-15	938	1,638
		Nov-15	1,507	3,188
		Dec-15	1,292	2,527
		Jan-16	1,147	2,528
		Feb-16	817	1,371
		Mar-16	1,516	3,093
		Apr-16	1,605	3,306
		May-16	1,513	2,931
		Jun-16	1,544	3,014
		Jul-16	1,412	2,741
		Aug-16	1,563	2,923
		Sep-16	1,582	2,932
	<b>Annual Average</b>	<b>1,378</b>	<b>2,713</b>	

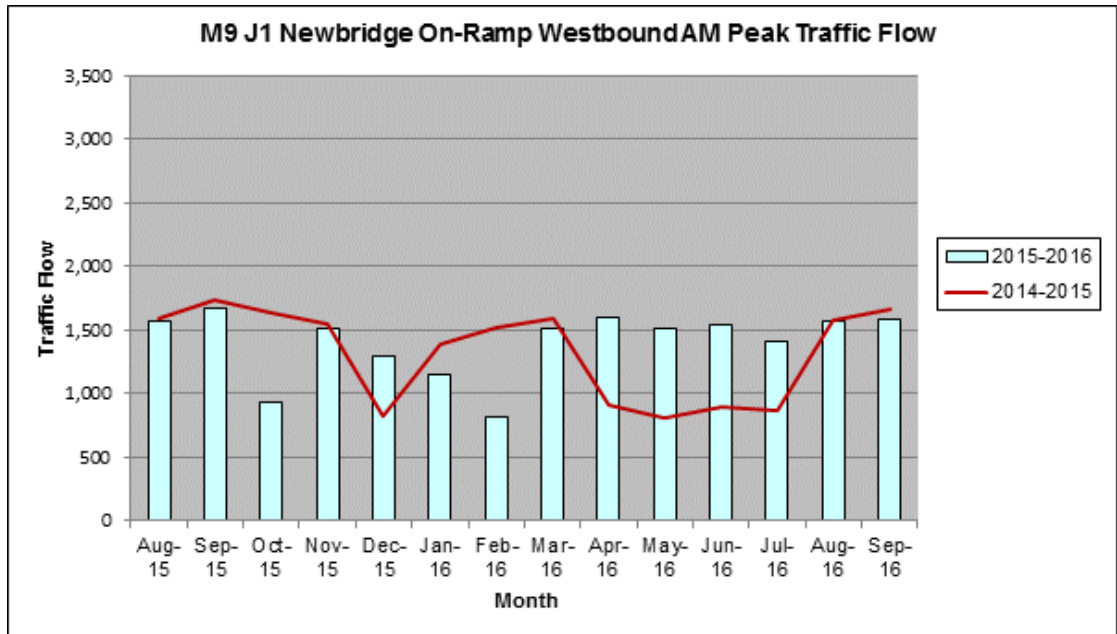


Figure 3-57 Monthly AM Peak Flows on the M9 J1 Newbridge On-Ramp Westbound

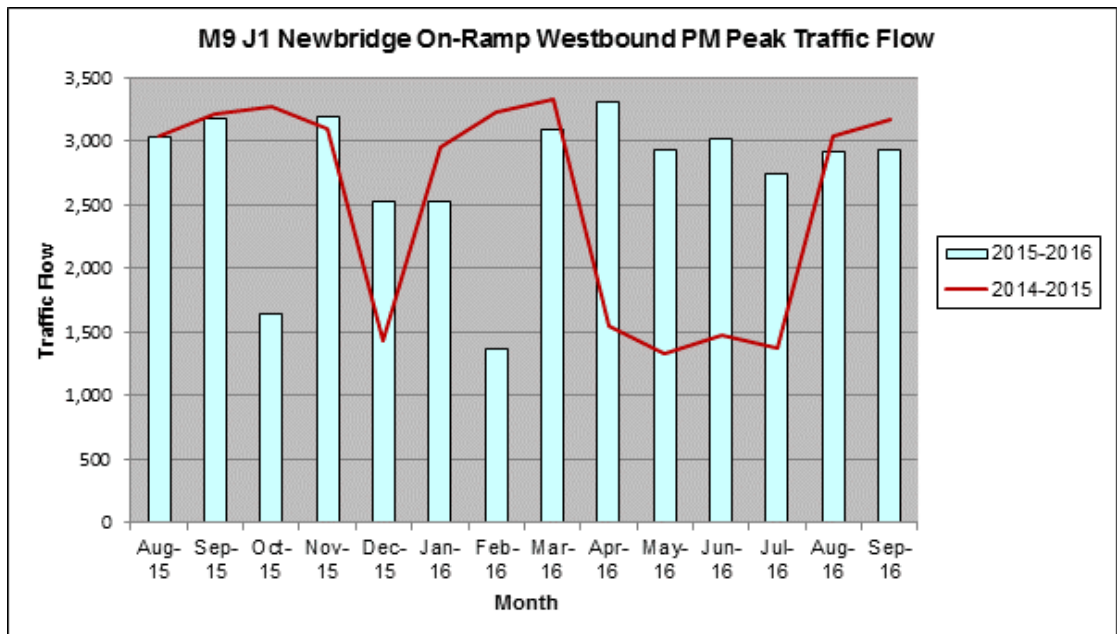
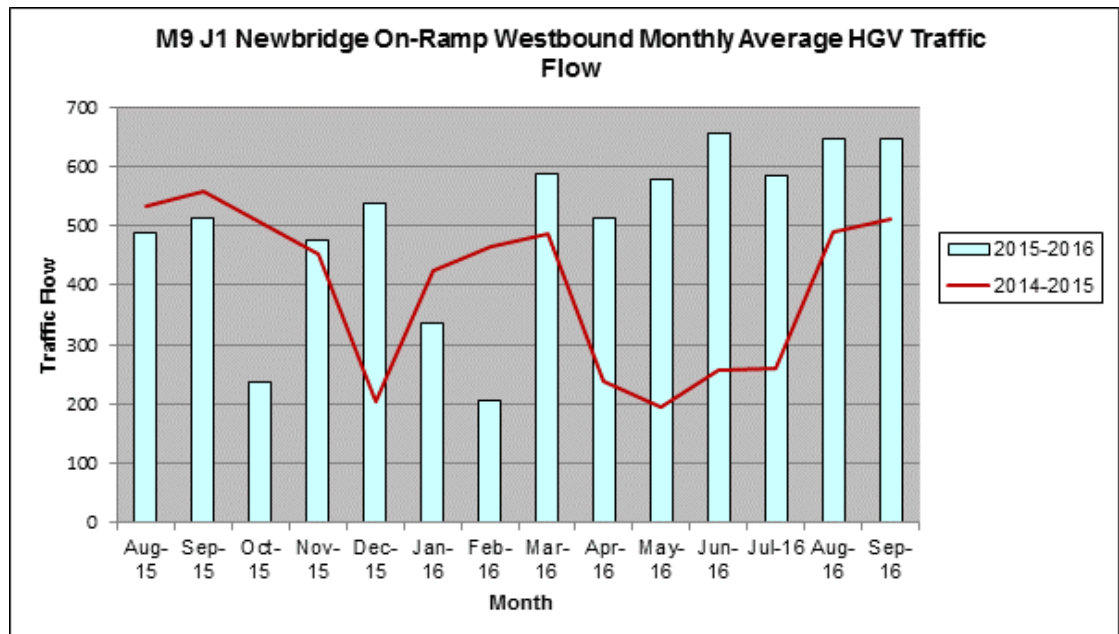


Figure 3-58 Monthly PM Peak Flows on the M9 J1 Newbridge On-Ramp Westbound

### 3.12.3 Monthly Average HGV Flows

**Table 3-43 Site: NTC01101 Annual HGV Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	WB
NTC01101	M9 J1 Newbridge On- Ramp Westbound	Aug-11	No Data
		Aug-15	489
		Sep-15	511
		Oct-15	236
		Nov-15	476
		Dec-15	538
		Jan-16	337
		Feb-16	206
		Mar-16	586
		Apr-16	512
		May-16	577
		Jun-16	654
		Jul-16	583
		Aug-16	646
		Sep-16	646
		<b>Annual Average</b>	<b>475</b>



**Figure 3-59 Monthly HGV Traffic Flows on the M9 J1 Newbridge On-Ramp Westbound**

### 3.13 Traffic Counter NTC01119 - M90 South of Scotstoun Southbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV traffic flows through December 2015, January 2016 and February 2016, due to FRB closure and HGV restrictions.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.13.1 Monthly Average Traffic Flows

**Table 3-44 Site: NTC01119 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01119	M90 South of Scotstoun Southbound	Aug-11	No Data
		Aug-15	22,863
		Sep-15	22,467
		Oct-15	22,136
		Nov-15	20,310
		Dec-15	6,449
		Jan-16	15,731
		Feb-16	18,229
		Mar-16	20,461
		Apr-16	21,024
		May-16	21,236
		Jun-16	22,532
		Jul-16	22,884
		Aug-16	23,586
		Sep-16	22,699
	<b>Annual Average</b>	<b>19,694</b>	

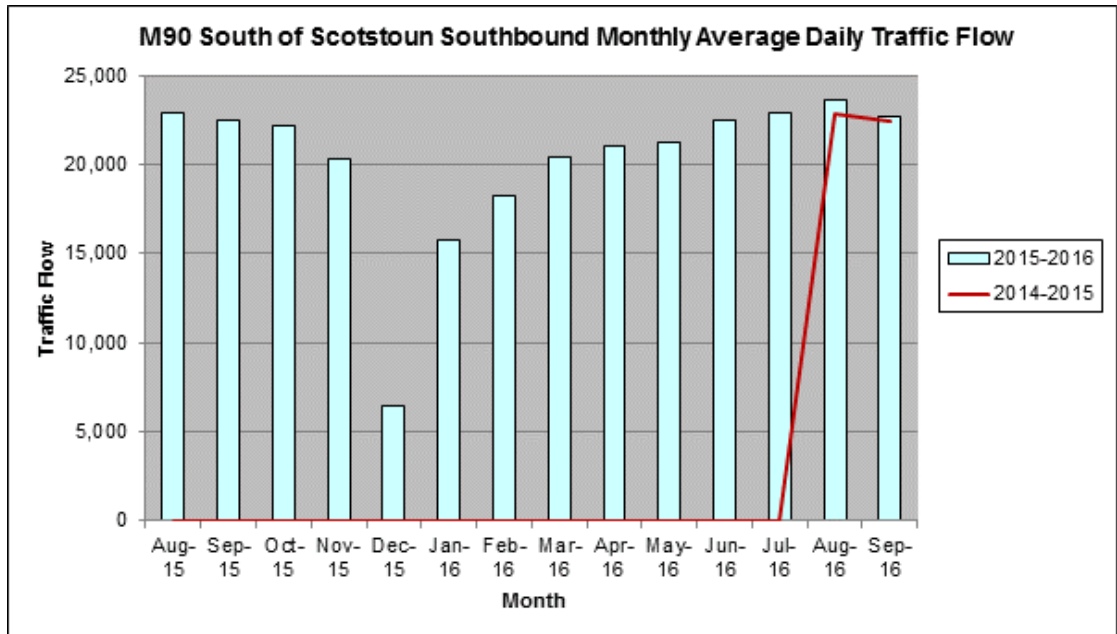


Figure 3-60 Monthly AADTs on the M90 South of Scotstoun Southbound

### 3.13.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-45 Site: NTC01119 Monthly Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01119	M90 South of Scotstoun Southbound	Aug-11	No Data	No Data
		Aug-15	4,053	4,526
		Sep-15	4,237	4,439
		Oct-15	4,166	4,296
		Nov-15	3,899	3,828
		Dec-15	1,014	1,100
		Jan-16	3,011	3,195
		Feb-16	3,499	3,671
		Mar-16	3,857	4,099
		Apr-16	3,977	4,113
		May-16	3,979	4,106
		Jun-16	4,084	4,220
		Jul-16	3,848	4,199
		Aug-16	4,250	4,372
		Sep-16	4,049	4,257
		<b>Annual Average</b>	<b>3,635</b>	<b>3,816</b>

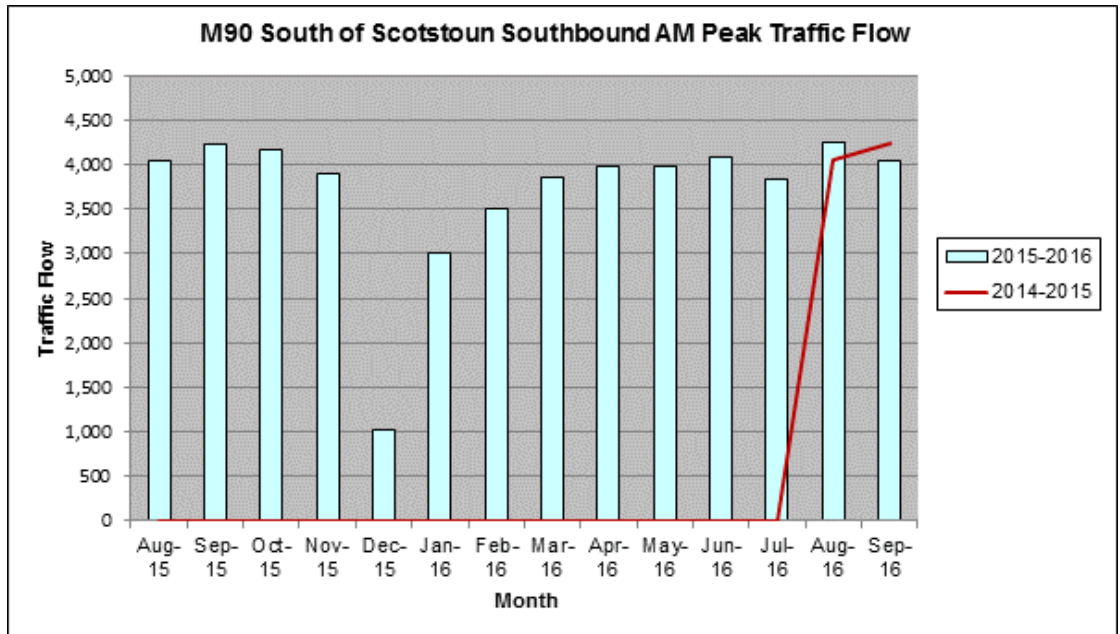


Figure 3-61 Monthly AM Peak Flows on the M90 South of Scotstoun Southbound

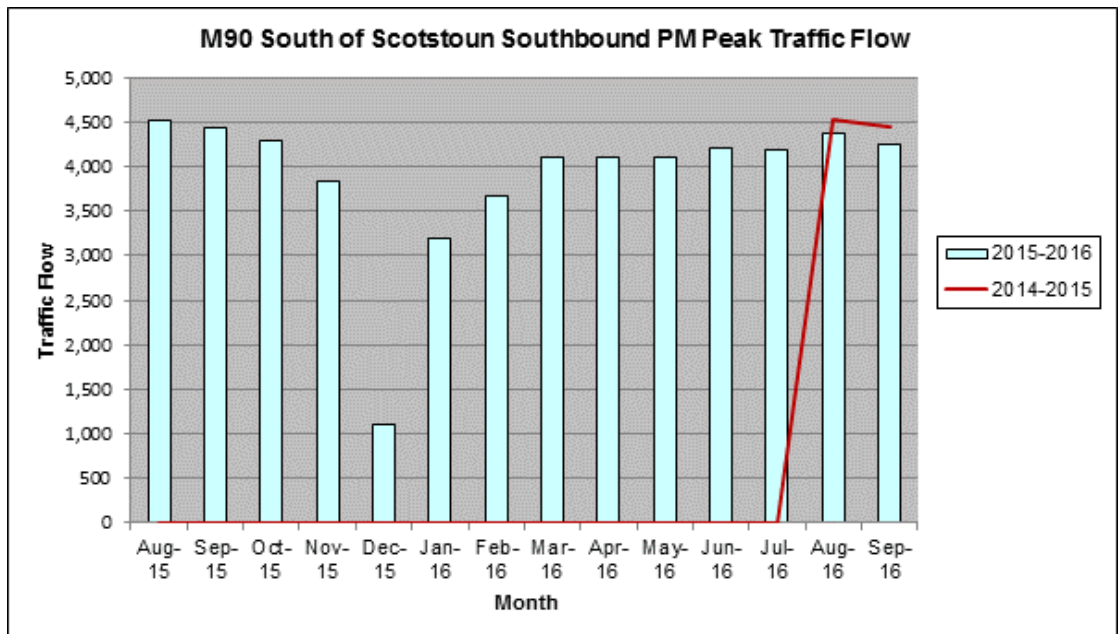


Figure 3-62 Monthly PM Peak Flows on the M90 South of Scotstoun Southbound

### 3.13.3 Monthly Average HGV Flows

Table 3-46 Site: NTC01119 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	SB
NTC01119	M90 South of Scotstoun Southbound	Aug-11	No Data
		Aug-15	1,602
		Sep-15	1,732
		Oct-15	1,695
		Nov-15	1,541
		Dec-15	189
		Jan-16	175
		Feb-16	606
		Mar-16	1,592
		Apr-16	1,601
		May-16	1,594
		Jun-16	1,704
		Jul-16	1,644
		Aug-16	1,833
		Sep-16	1,788
		<b>Annual Average</b>	

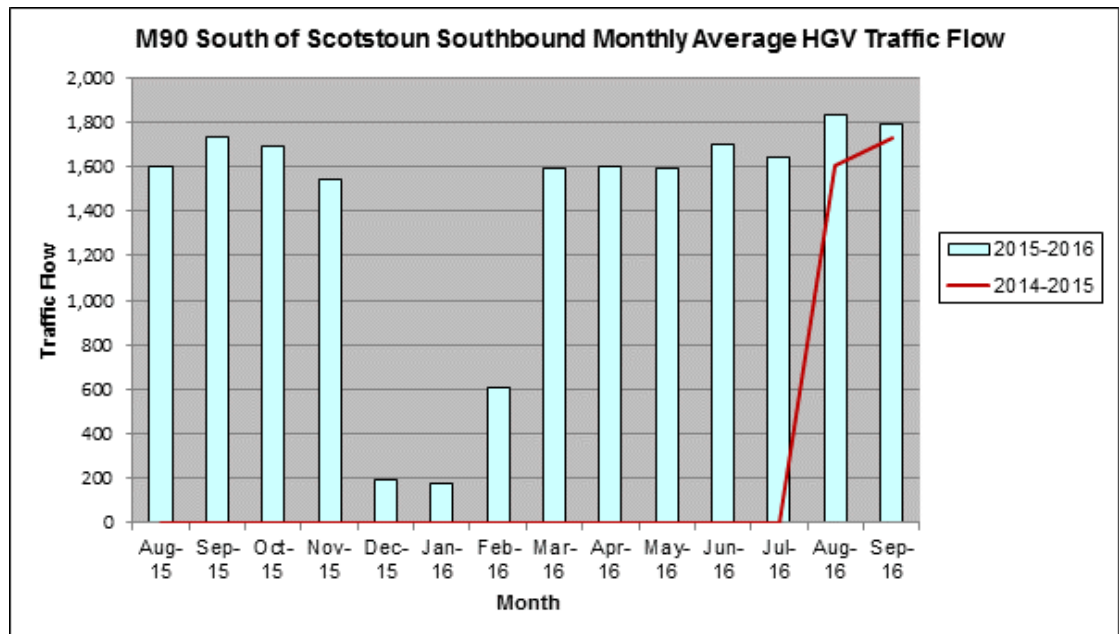


Figure 3-63 Monthly HGV Traffic Flows on the M90 South of Scotstoun Southbound



### 3.14 Traffic Counter NTC01148 - M90 J2 Off-Ramp to A823 (M) West Northbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016 and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows follow a similar pattern to the previous monitoring report, with the exceptions of December 2015, January 2016 and February 2016.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.14.1 Monthly Average Traffic Flows

**Table 3-47 Site: NTC01148 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
NTC01148	M90 J2 Off-Ramp to A823 (M) West Northbound	Aug-11	No Data
		Aug-15	6,396
		Sep-15	6,341
		Oct-15	5,946
		Nov-15	6,324
		Dec-15	2,807
		Jan-16	5,424
		Feb-16	5,935
		Mar-16	6,268
		Apr-16	6,322
		May-16	6,525
		Jun-16	6,462
		Jul-16	6,112
		Aug-16	6,781
		Sep-16	6,580
	<b>Annual Average</b>	<b>5,905</b>	

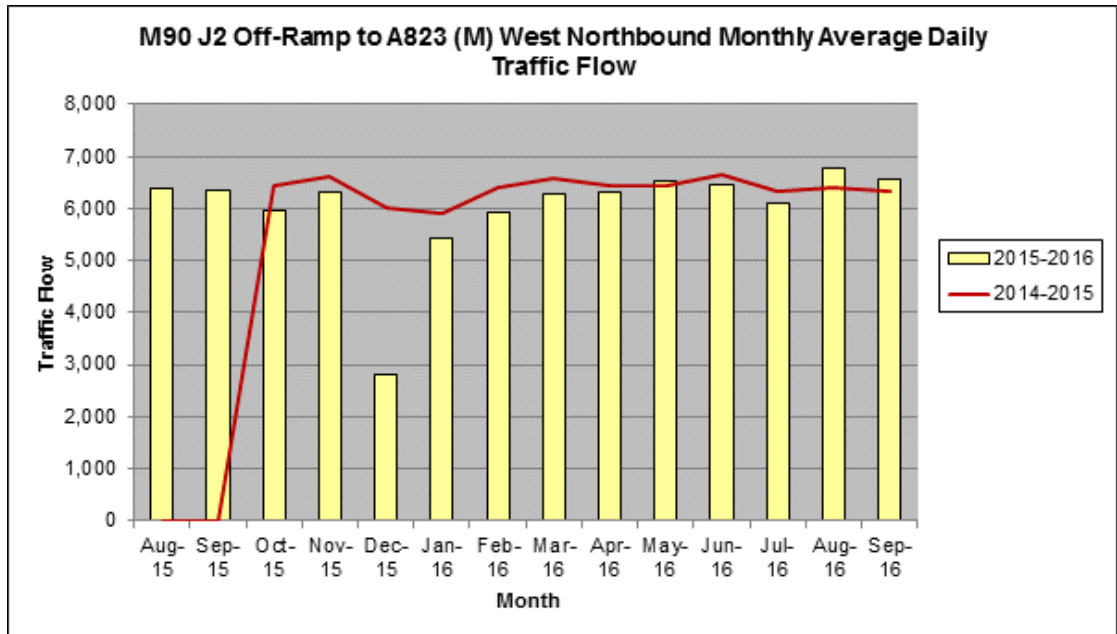


Figure 3-64 Monthly AADTs on the M90 J2 Off-Ramp to A823 (M) West Northbound

### 3.14.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-48 Site: NTC01148 Monthly Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01148	M90 J2 Off-Ramp to A823 (M) West Northbound	Aug-11	No Data	No Data
		Aug-15	1,150	1,562
		Sep-15	1,224	1,598
		Oct-15	1,097	1,491
		Nov-15	1,152	1,539
		Dec-15	474	547
		Jan-16	985	1,451
		Feb-16	1,131	1,561
		Mar-16	1,194	1,630
		Apr-16	1,185	1,643
		May-16	1,174	1,701
		Jun-16	1,187	1,657
		Jul-16	1,049	1,551
		Aug-16	1,224	1,705
		Sep-16	1,254	1,702
	<b>Annual Average</b>	<b>1,083</b>	<b>1,494</b>	

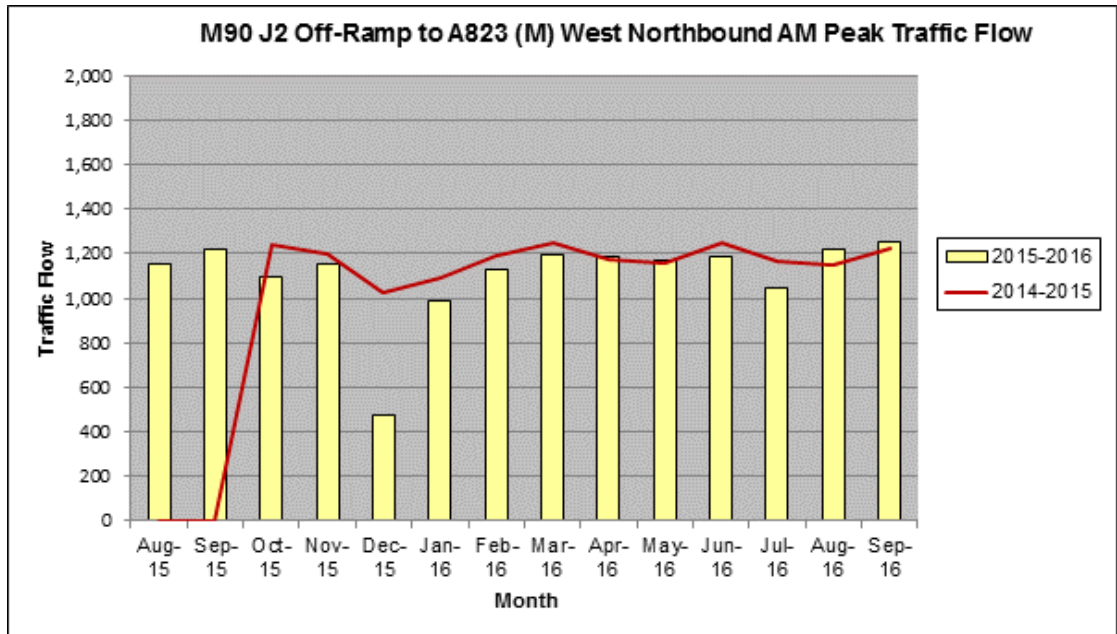


Figure 3-65 Monthly AM Peak Flows on the M90 J2 Off-Ramp to A823 (M) West Northbound

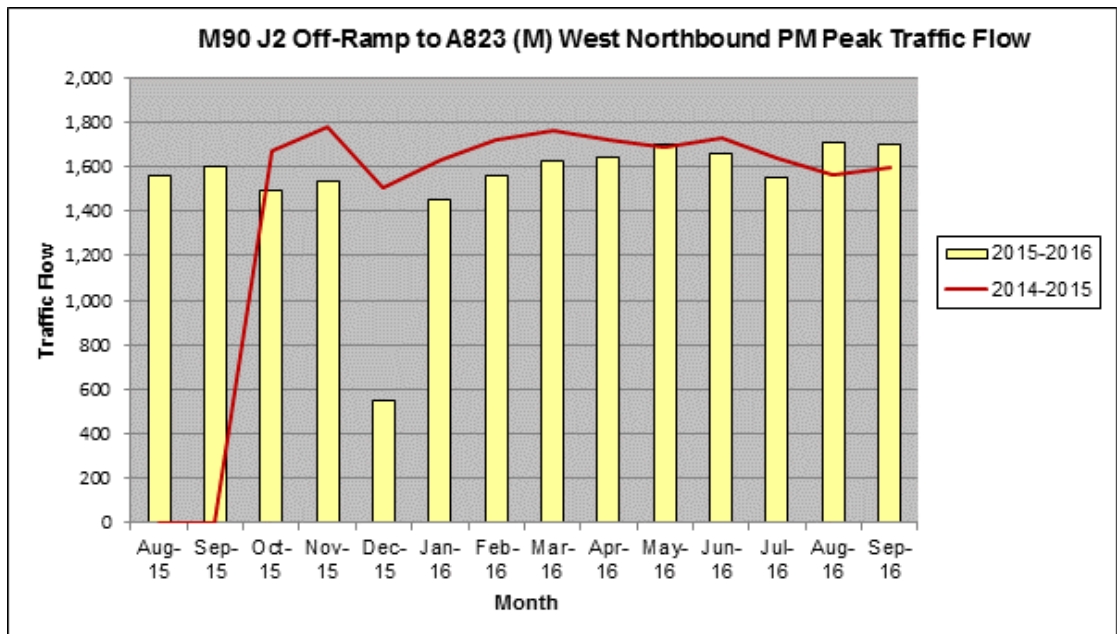
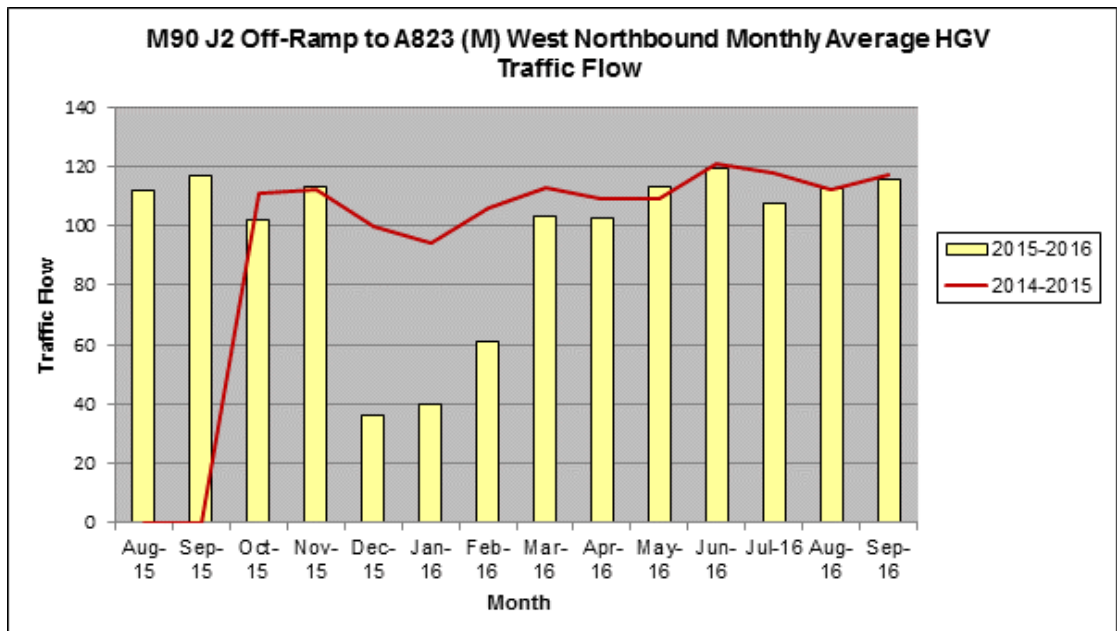


Figure 3-66 Monthly PM Peak Flows on the M90 J2 Off-Ramp to A823 (M) West Northbound

### 3.14.3 Monthly Average HGV Flows

**Table 3-49 Site: NTC01148 Annual HGV Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
NTC01148	M90 J2 Off-Ramp to A823 (M) West Northbound	Aug-11	No Data
		Aug-15	112
		Sep-15	117
		Oct-15	102
		Nov-15	113
		Dec-15	36
		Jan-16	40
		Feb-16	61
		Mar-16	103
		Apr-16	103
		May-16	113
		Jun-16	119
		Jul-16	107
		Aug-16	112
		Sep-16	115
		<b>Annual Average</b>	<b>94</b>



**Figure 3-67 Monthly HGV Traffic Flows on the M90 J2 Off-Ramp to A823 (M) West Northbound**

### 3.15 Traffic Counter NTC01152 - M90 J2 On-Ramp from A823 (M) Southbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV traffic flows through December 2015, January 2016 and February 2016, due to FRB closure and HGV restrictions.
- Traffic flows generally remained consistent with the previous monitoring period, with the exceptions of December 2015, January 2016, and February 2016 as noted above.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.15.1 Monthly Average Traffic Flows

**Table 3-50 Site: NTC01152 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01152	M90 J2 On-Ramp from A823 (M) Southbound	Aug-11	No Data
		Aug-15	5,932
		Sep-15	5,947
		Oct-15	5,618
		Nov-15	5,969
		Dec-15	2,660
		Jan-16	5,160
		Feb-16	5,706
		Mar-16	5,919
		Apr-16	5,831
		May-16	5,916
		Jun-16	6,055
		Jul-16	5,824
		Aug-16	6,579
		Sep-16	6,286
	<b>Annual Average</b>	<b>5,545</b>	

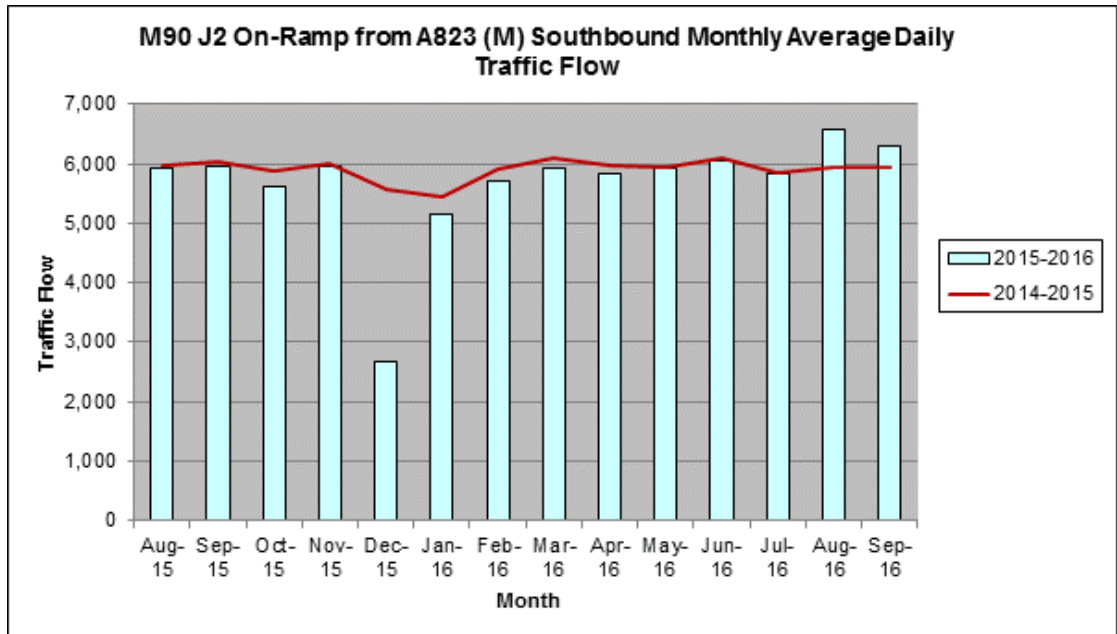


Figure 3-68 Monthly AADTs on the M90 J2 On-Ramp from A823 (M) Southbound

### 3.15.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-51 Site: NTC01152 Monthly Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01152	M90 J2 On-Ramp from A823 (M) Southbound	Aug-11	No Data	No Data
		Aug-15	1,161	1,251
		Sep-15	1,177	1,328
		Oct-15	1,103	1,213
		Nov-15	1,144	1,321
		Dec-15	392	577
		Jan-16	978	1,195
		Feb-16	1,103	1,303
		Mar-16	1,167	1,357
		Apr-16	1,158	1,292
		May-16	1,151	1,319
		Jun-16	1,173	1,309
		Jul-16	1,142	1,219
		Aug-16	1,315	1,434
		Sep-16	1,280	1,398
	<b>Annual Average</b>	<b>1,071</b>	<b>1,224</b>	

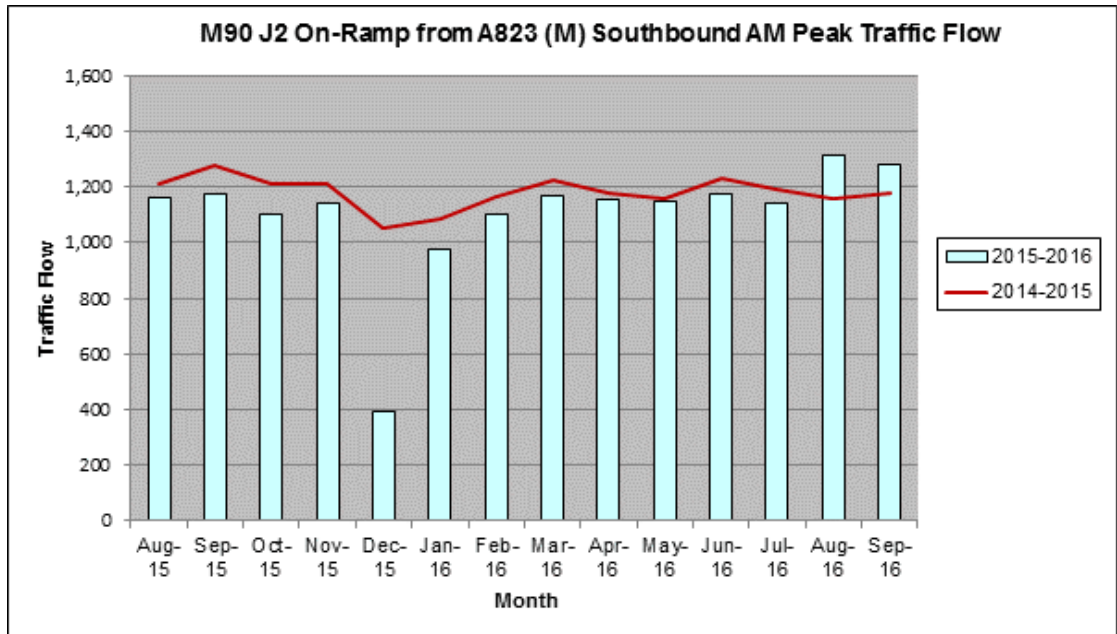


Figure 3-69 Monthly AM Peak Flows on the M90 J2 On-Ramp from A823 (M) Southbound

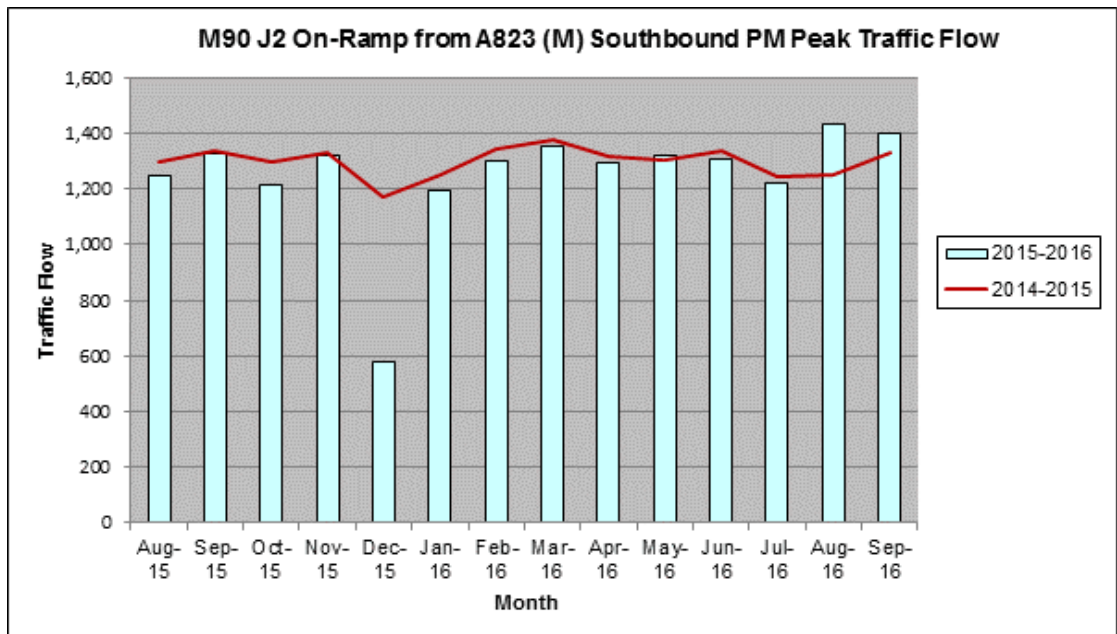
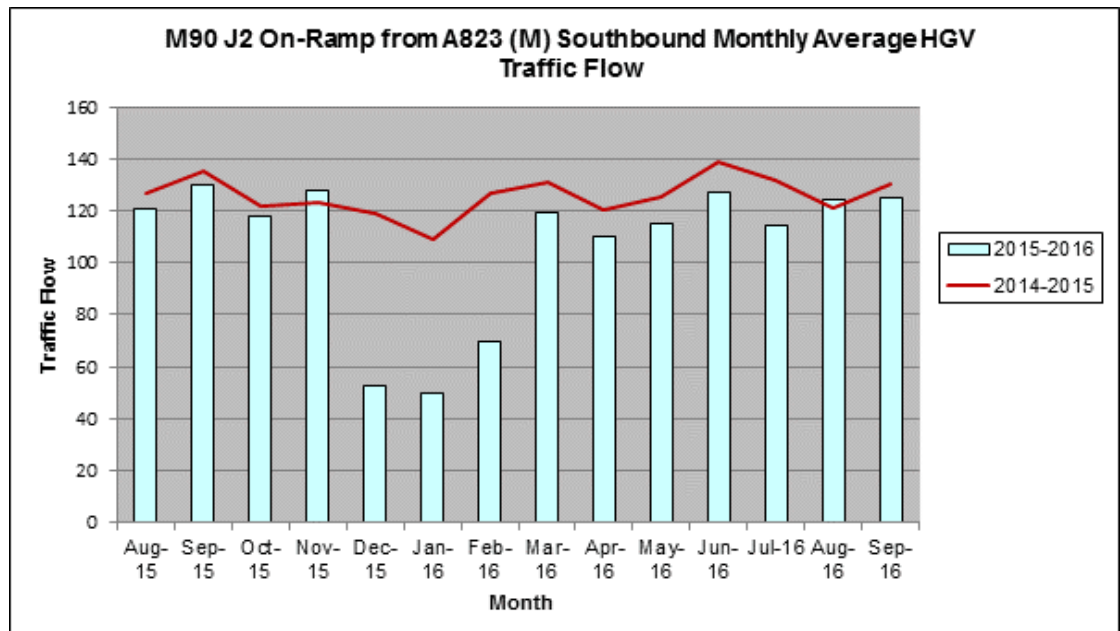


Figure 3-70 Monthly PM Peak Flows on the M90 J2 On-Ramp from A823 (M) Southbound

### 3.15.3 Monthly Average HGV Flows

**Table 3-52 Site: NTC01152 Annual HGV Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01152	M90 J2 On-Ramp from A823 (M) Southbound	Aug-11	No Data
		Aug-15	121
		Sep-15	130
		Oct-15	118
		Nov-15	128
		Dec-15	53
		Jan-16	50
		Feb-16	70
		Mar-16	119
		Apr-16	110
		May-16	115
		Jun-16	127
		Jul-16	114
		Aug-16	125
		Sep-16	125
		<b>Annual Average</b>	<b>105</b>



**Figure 3-71 Monthly HGV Traffic Flows on the M90 J2 On-Ramp from A823 (M) Southbound**



### 3.16 Traffic Counter NTC01153 - M90 at J2 On-Ramp from A823 (M) Northbound

Summary of statistics between August 2015 and September 2016:

- Traffic flows are generally higher than the previous monitoring period.
- Higher than normal HGV levels observed in December 2015 and February 2016 is likely due to the FRB closure and restrictions on HGVs during these months.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.16.1 Monthly Average Traffic Flows

**Table 3-53 Site: NTC01153 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
NTC01153	M90 at J2 On-Ramp from A823(M) Northbound	Aug-11	No Data
		Aug-15	3,364
		Sep-15	3,535
		Oct-15	3,349
		Nov-15	3,473
		Dec-15	3,432
		Jan-16	3,331
		Feb-16	3,729
		Mar-16	3,840
		Apr-16	3,673
		May-16	3,682
		Jun-16	3,945
		Jul-16	3,456
		Aug-16	3,693
		Sep-16	3,720
	<b>Annual Average</b>	<b>3,568</b>	

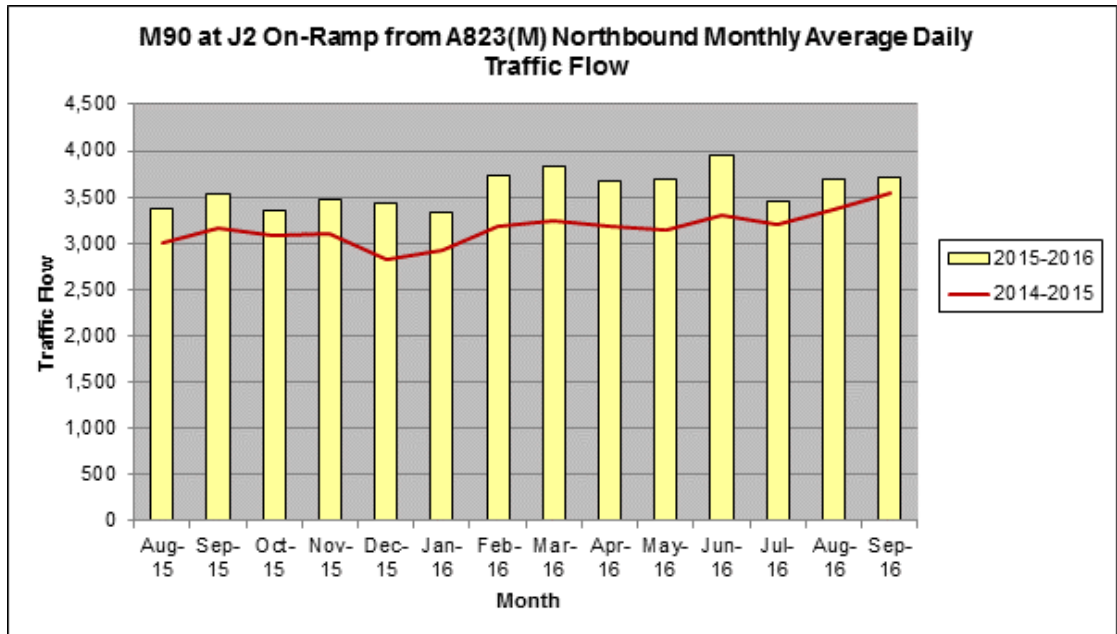


Figure 3-72 Monthly AADTs on the M90 at J2 On-Ramp from A823(M) Northbound

### 3.16.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-54 Site: NTC01153 Monthly Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01153	M90 at J2 On-Ramp from A823(M) Northbound	Aug-11	No Data	No Data
		Aug-15	548	1,036
		Sep-15	630	1,099
		Oct-15	577	1,023
		Nov-15	603	1,053
		Dec-15	551	987
		Jan-16	565	1,060
		Feb-16	635	1,202
		Mar-16	679	1,215
		Apr-16	634	1,144
		May-16	641	1,114
		Jun-16	687	1,264
		Jul-16	545	1,073
		Aug-16	607	1,140
Sep-16	651	1,133		
	<b>Annual Average</b>	<b>608</b>	<b>1,106</b>	

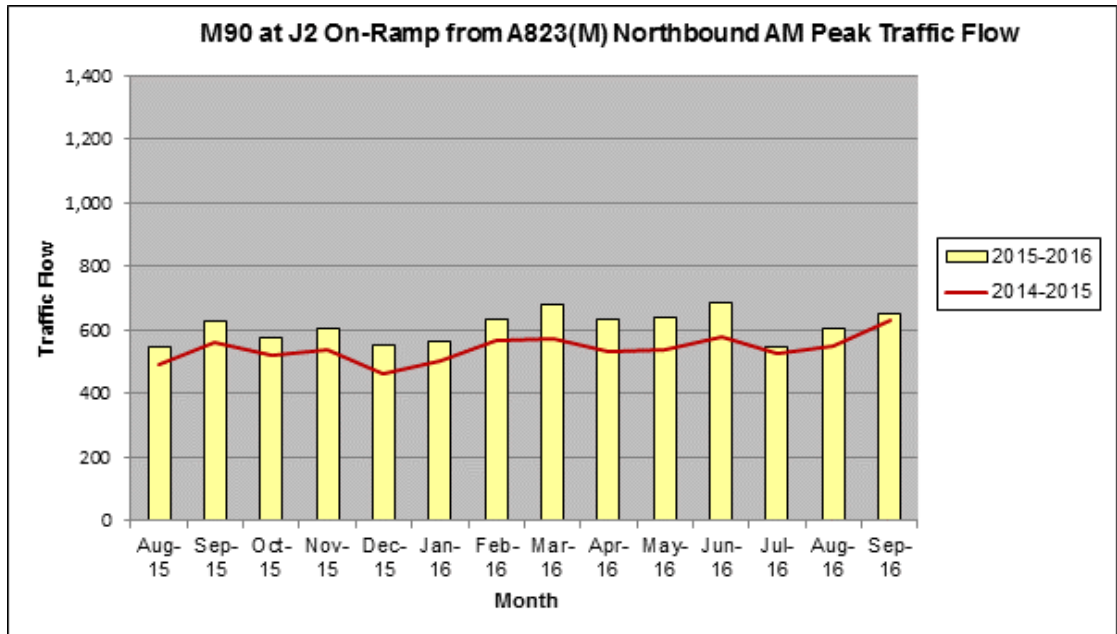


Figure 3-73 Monthly AM Peak Flows on the M90 at J2 On-Ramp from A823(M) Northbound

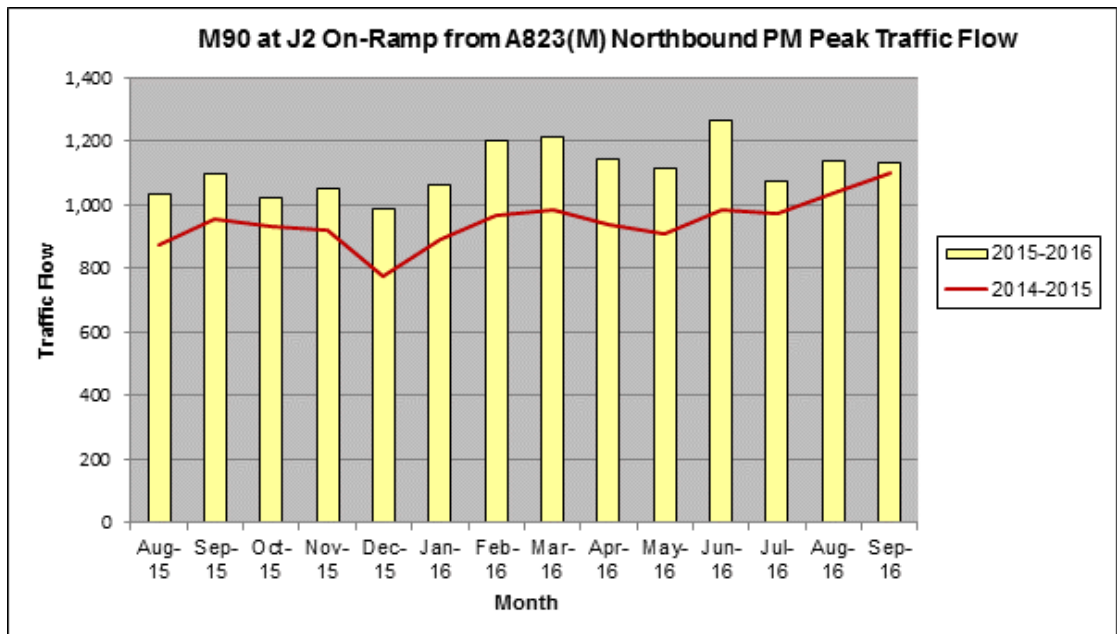


Figure 3-74 Monthly PM Peak Flows on the M90 at J2 On-Ramp from A823(M) Northbound

### 3.16.3 Monthly Average HGV Flows

Table 3-55 Site: NTC01153 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	NB
NTC01153	M90 at J2 On-Ramp from A823(M) Northbound	Aug-11	No Data
		Aug-15	79
		Sep-15	92
		Oct-15	84
		Nov-15	82
		Dec-15	142
		Jan-16	96
		Feb-16	111
		Mar-16	83
		Apr-16	77
		May-16	80
		Jun-16	91
		Jul-16	76
		Aug-16	85
		Sep-16	83
		<b>Annual Average</b>	<b>91</b>

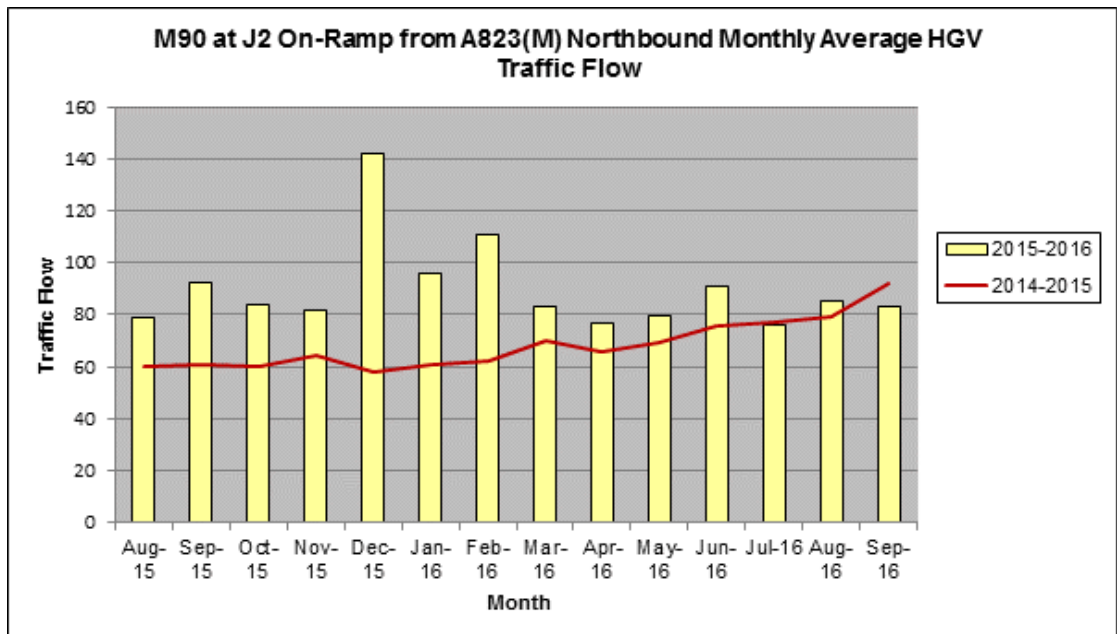


Figure 3-75 Monthly HGV Traffic Flows on the M90 at J2 On-Ramp from A823(M) Northbound

### 3.17 Traffic Counter NTC01154 - M90 J2 Off-Ramp to A823 (M) Southbound

Summary of statistics between August 2015 and September 2016:

- Traffic flows are generally higher than in the previous monitoring period.
- Higher HGV flows observed in December 2015, January 2016 and February 2016 due to FRB restrictions.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.17.1 Monthly Average Traffic Flows

**Table 3-56 Site: NTC01154 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01154	M90 J2 Off-Ramp to A823 (M) Southbound	Aug-11	No Data
		Aug-15	3,351
		Sep-15	3,535
		Oct-15	3,230
		Nov-15	3,464
		Dec-15	3,502
		Jan-16	3,245
		Feb-16	3,711
		Mar-16	3,779
		Apr-16	3,744
		May-16	3,785
		Jun-16	3,978
		Jul-16	3,424
		Aug-16	3,929
		Sep-16	3,945
	<b>Annual Average</b>	<b>3,562</b>	

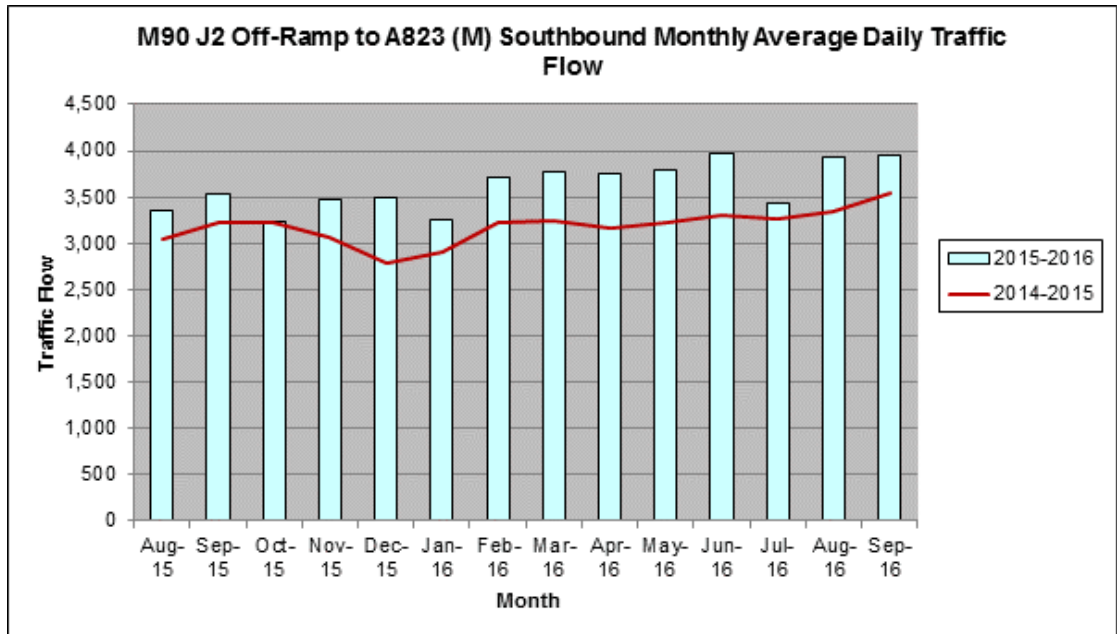


Figure 3-76 Monthly AADTs on the M90 J2 Off-Ramp to A823 (M) Southbound

### 3.17.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-57 Site: NTC01154 Monthly Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01154	M90 J2 Off-Ramp to A823 (M) Southbound	Aug-11	No Data	No Data
		Aug-15	940	661
		Sep-15	1,144	655
		Oct-15	952	613
		Nov-15	1,031	596
		Dec-15	862	606
		Jan-16	960	580
		Feb-16	1,112	669
		Mar-16	1,112	699
		Apr-16	1,092	672
		May-16	1,075	711
		Jun-16	1,188	723
		Jul-16	949	607
		Aug-16	1,131	718
		Sep-16	1,192	718
	<b>Annual Average</b>	<b>1,035</b>	<b>649</b>	

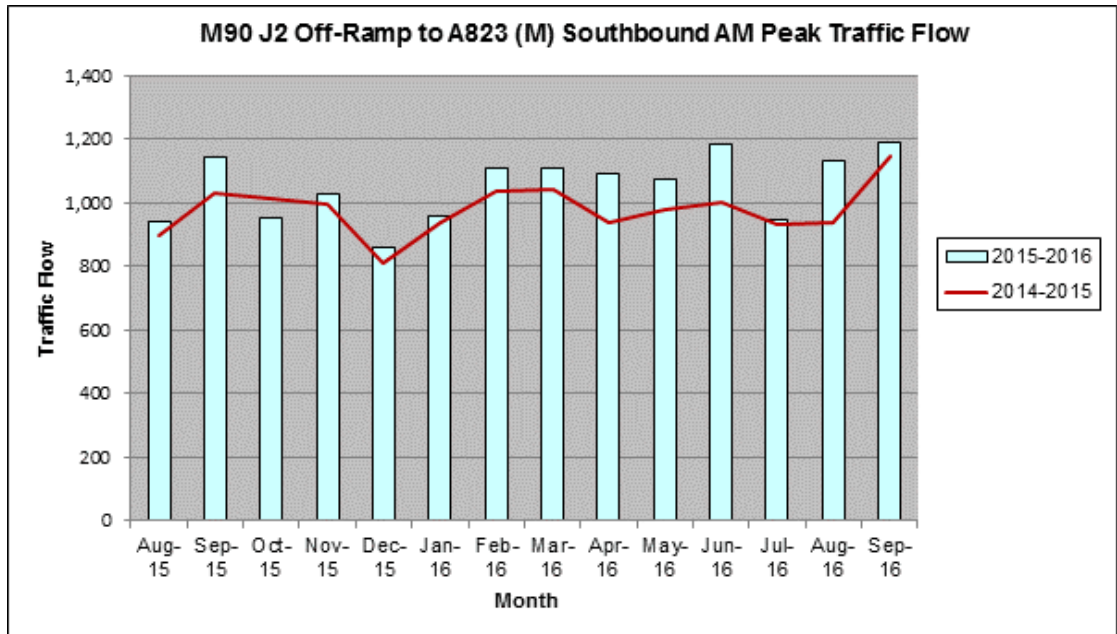


Figure 3-77 Monthly AM Peak Flows on the M90 J2 Off-Ramp to A823 (M) Southbound

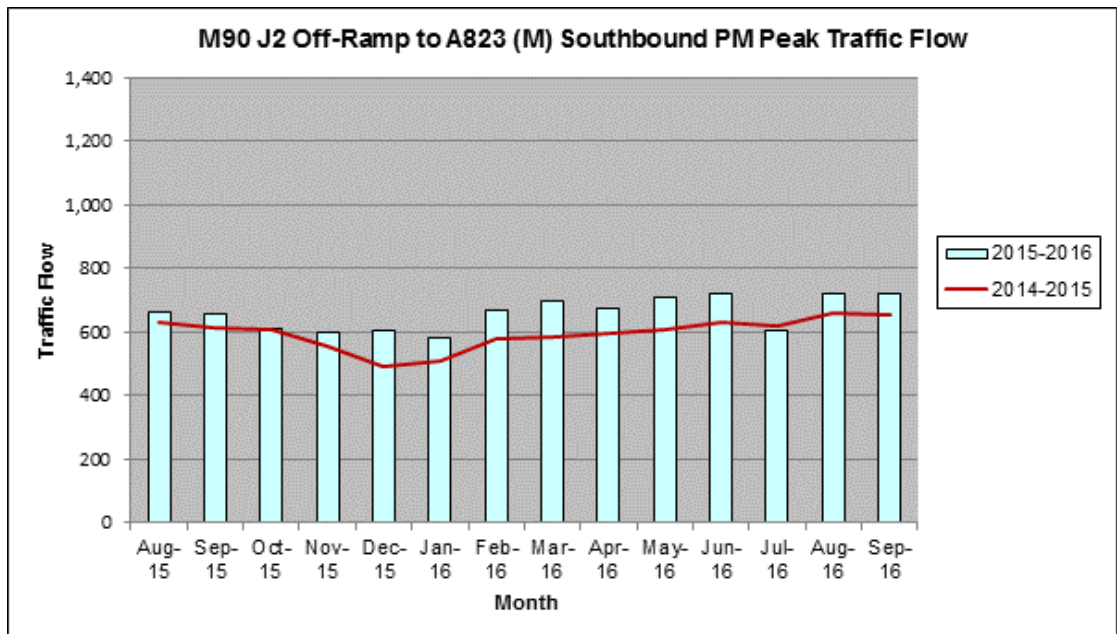
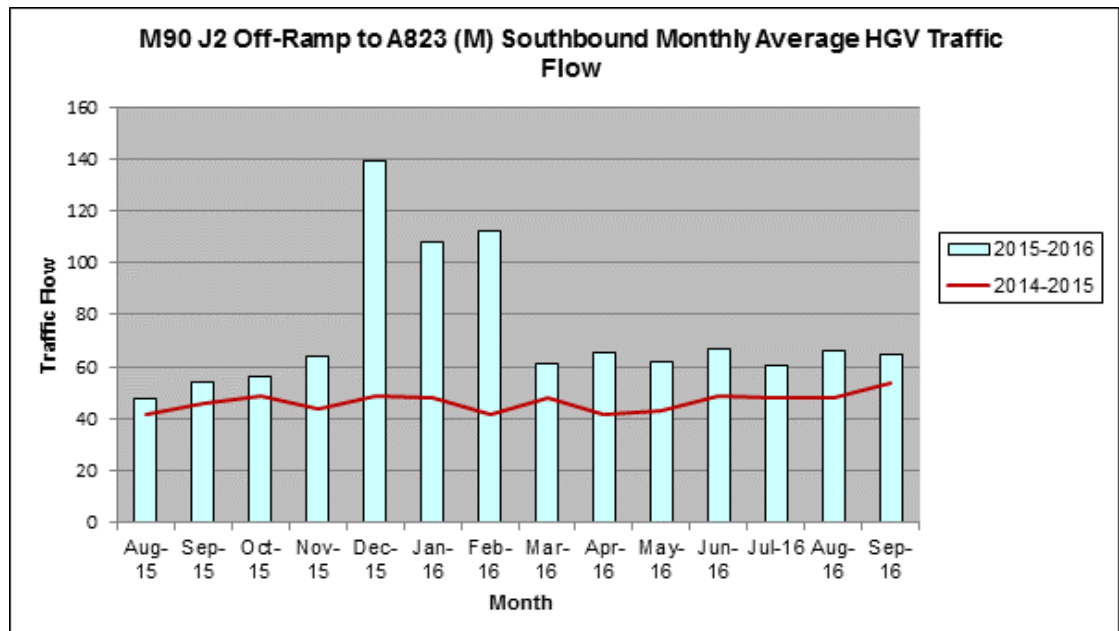


Figure 3-78 Monthly PM Peak Flows on the M90 J2 Off-Ramp to A823 (M) Southbound

### 3.17.3 Monthly Average HGV Flows

**Table 3-58 Site: NTC01154 Annual HGV Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01154	M90 J2 Off-Ramp to A823 (M) Southbound	Aug-11	No Data
		Aug-15	48
		Sep-15	54
		Oct-15	56
		Nov-15	64
		Dec-15	139
		Jan-16	108
		Feb-16	112
		Mar-16	61
		Apr-16	65
		May-16	62
		Jun-16	67
		Jul-16	61
		Aug-16	67
		Sep-16	65
		<b>Annual Average</b>	<b>75</b>



**Figure 3-79 Monthly HGV Traffic Flows on the M90 J2 Off-Ramp to A823 (M) Southbound**



### 3.18 Traffic Counter NTC01149 - M90 at J2 Masterton Northbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016 and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows are indicative of typical seasonal variation; higher flows over the summer months.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.18.1 Monthly Average Traffic Flows

**Table 3-59 Site: NTC01149 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
NTC01149	M90 at J2 Masterton Northbound	Aug-11	No Data
		Aug-15	27,530
		Sep-15	26,802
		Oct-15	25,434
		Nov-15	24,730
		Dec-15	11,216
		Jan-16	20,709
		Feb-16	23,879
		Mar-16	25,529
		Apr-16	25,549
		May-16	25,757
		Jun-16	25,693
		Jul-16	26,556
		Aug-16	27,667
		Sep-16	26,964
	<b>Annual Average</b>	<b>24,115</b>	

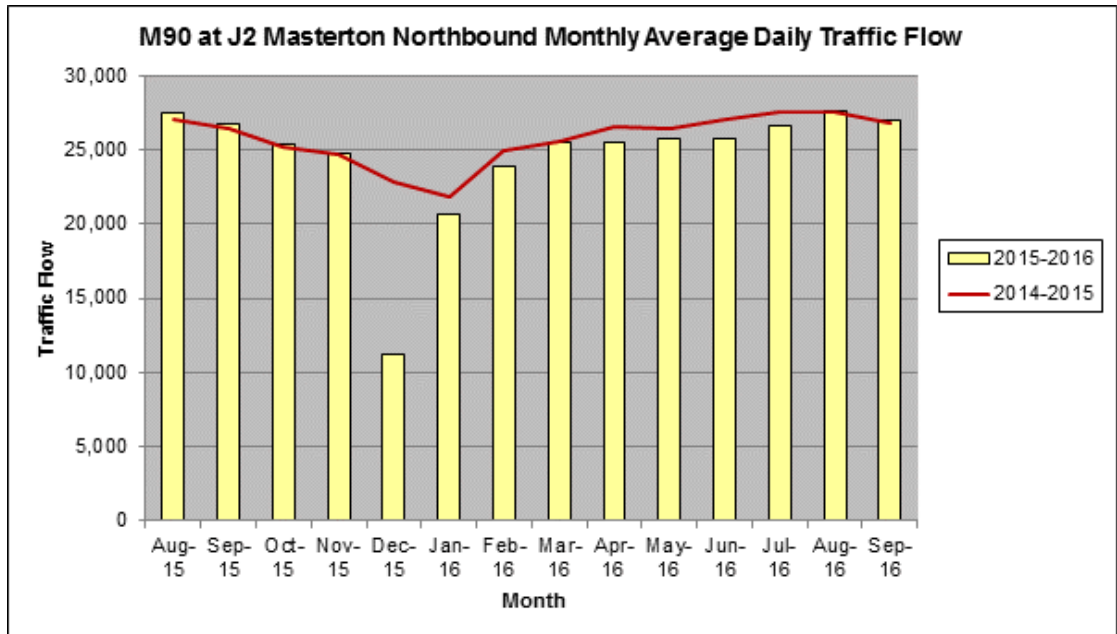


Figure 3-80 Monthly AADTs on the M90 at J2 Masterton Northbound

### 3.18.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-60 Site: NTC01149 Monthly Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01149	M90 at J2 Masterton Northbound	Aug-11	No Data	No Data
		Aug-15	4,582	6,227
		Sep-15	4,793	6,262
		Oct-15	4,455	5,895
		Nov-15	4,453	5,762
		Dec-15	1,559	2,426
		Jan-16	3,418	5,224
		Feb-16	4,202	5,823
		Mar-16	4,516	6,088
		Apr-16	4,396	6,031
		May-16	4,475	5,964
		Jun-16	4,565	6,095
		Jul-16	4,274	6,057
		Aug-16	4,721	6,204
		Sep-16	4,808	6,270
	<b>Annual Average</b>	<b>4,141</b>	<b>5,654</b>	

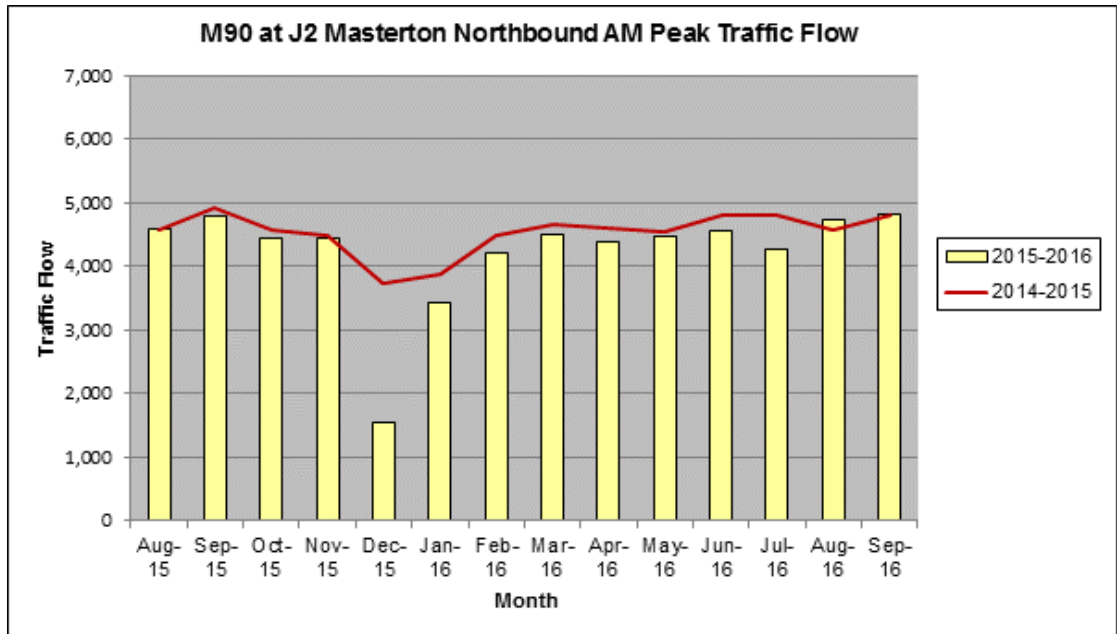


Figure 3-81 Monthly AM Peak Flows on the M90 at J2 Masterton Northbound

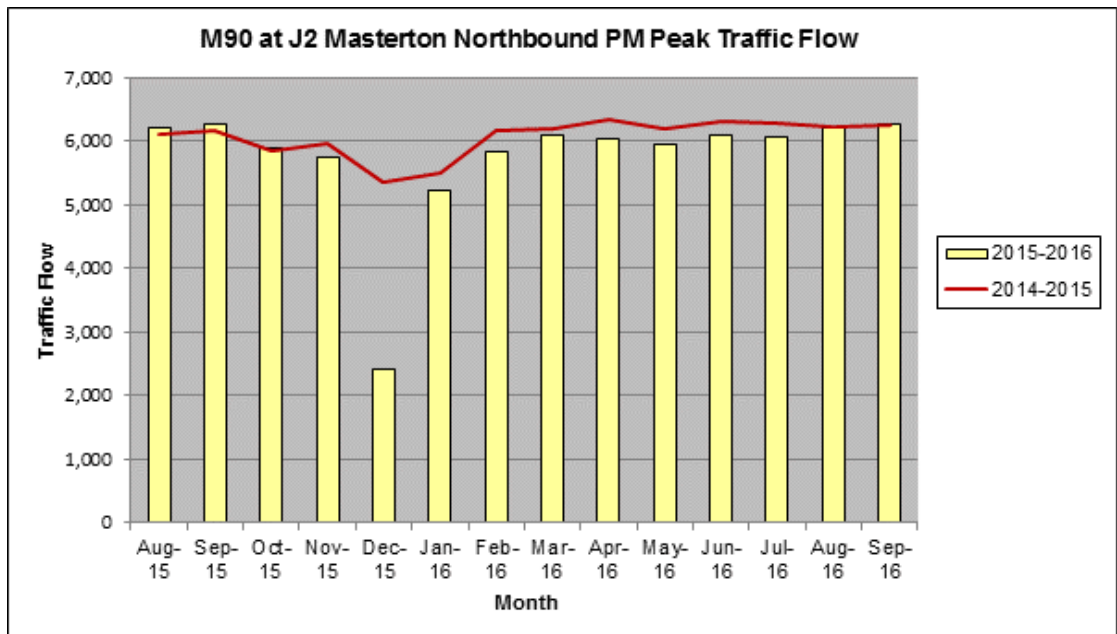


Figure 3-82 Monthly PM Peak Flows on the M90 at J2 Masterton Northbound

### 3.18.3 Monthly Average HGV Flows

Table 3-61 Site: NTC01149 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	NB
NTC01149	M90 at J2 Masterton Northbound	Aug-11	No Data
		Aug-15	1,643
		Sep-15	1,771
		Oct-15	1,648
		Nov-15	1,639
		Dec-15	902
		Jan-16	778
		Feb-16	1,130
		Mar-16	1,661
		Apr-16	1,647
		May-16	1,704
		Jun-16	1,842
		Jul-16	1,973
		Aug-16	2,033
		Sep-16	2,094
		<b>Annual Average</b>	<b>1,528</b>

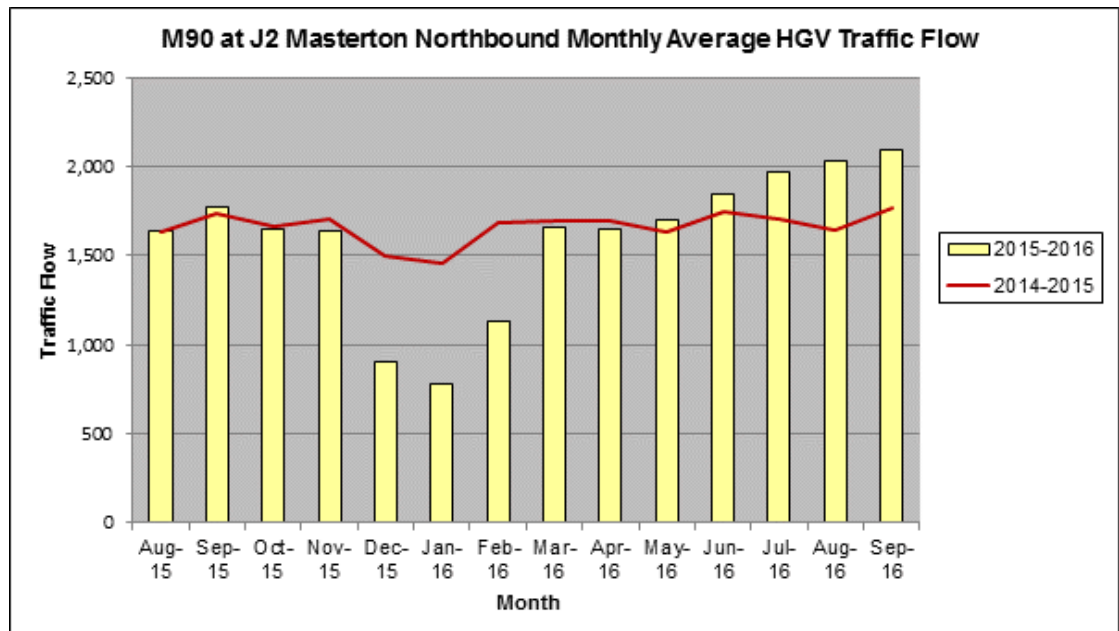


Figure 3-83 Monthly HGV Traffic Flows on the M90 at J2 Masterton Northbound

### 3.19 Traffic Counter NTC01151 - M90 at J2 Masterton Southbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016 and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows are indicative of typical seasonal variation; higher flows over the summer months.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.19.1 Monthly Average Traffic Flows

**Table 3-62 Site: NTC01151 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01151	M90 at J2 Masterton Southbound	Aug-11	No Data
		Aug-15	29,004
		Sep-15	28,121
		Oct-15	26,552
		Nov-15	24,594
		Dec-15	11,217
		Jan-16	21,241
		Feb-16	24,115
		Mar-16	26,178
		Apr-16	26,880
		May-16	27,013
		Jun-16	28,503
		Jul-16	27,665
		Aug-16	28,308
		Sep-16	27,636
	<b>Annual Average</b>	<b>25,090</b>	

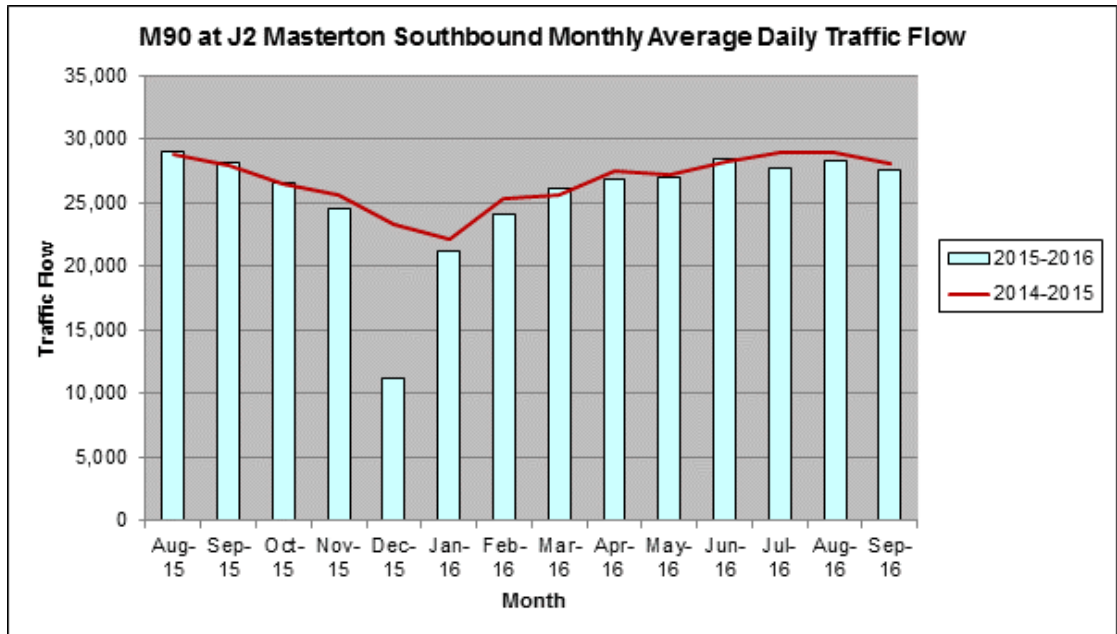


Figure 3-84 Monthly AADTs on the M90 at J2 Masterton Southbound

### 3.19.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-63 Site: NTC01151 Monthly Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01151	M90 at J2 Masterton Southbound	Aug-11	No Data	No Data
		Aug-15	4,669	6,161
		Sep-15	4,680	6,098
		Oct-15	4,252	5,645
		Nov-15	3,846	5,261
		Dec-15	1,510	2,096
		Jan-16	3,427	4,628
		Feb-16	4,025	5,243
		Mar-16	4,380	5,719
		Apr-16	4,419	5,781
		May-16	4,383	5,777
		Jun-16	4,785	5,946
		Jul-16	4,324	5,677
		Aug-16	4,562	5,871
		Sep-16	4,391	5,940
	<b>Annual Average</b>	<b>4,058</b>	<b>5,336</b>	

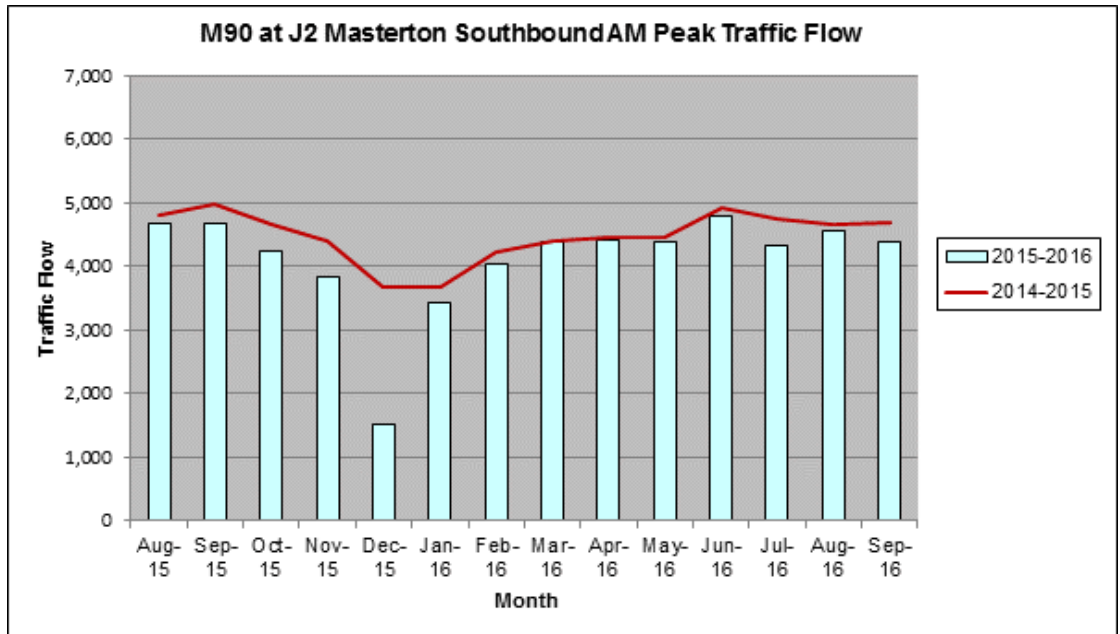


Figure 3-85 Monthly AM Peak Flows on the M90 at J2 Masterton Southbound

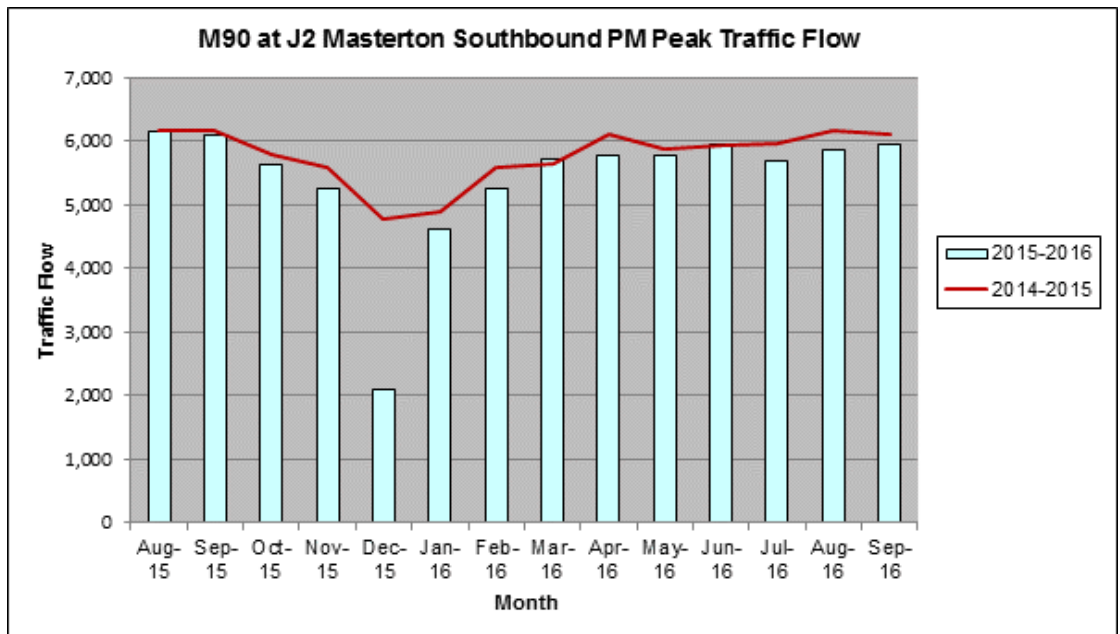


Figure 3-86 Monthly PM Peak Flows on the M90 at J2 Masterton Southbound

### 3.19.3 Monthly Average HGV Flows

Table 3-64 Site: NTC01151 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	SB
NTC01151	M90 at J2 Masterton Southbound	Aug-11	No Data
		Aug-15	1,732
		Sep-15	1,853
		Oct-15	1,707
		Nov-15	1,642
		Dec-15	877
		Jan-16	747
		Feb-16	1,065
		Mar-16	1,716
		Apr-16	1,694
		May-16	1,671
		Jun-16	1,828
		Jul-16	1,680
		Aug-16	1,802
		Sep-16	1,850
		<b>Annual Average</b>	<b>1,518</b>

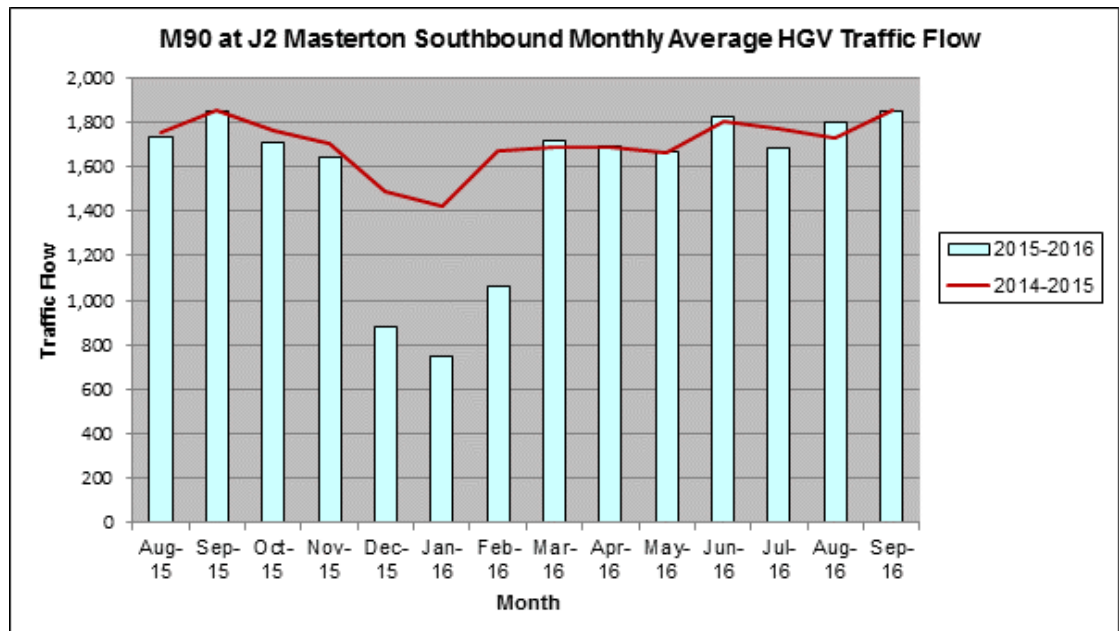


Figure 3-87 Monthly HGV Traffic Flows on the M90 at J2 Masterton Southbound



### 3.20 Traffic Counter NTC01200 - A92 at J2a Halbeath Southbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016 and February 2016 due to FRB closure and HGV restrictions.
- Flows are otherwise similar to the previous monitoring period.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.20.1 Monthly Average Traffic Flows

**Table 3-65 Site: NTC01200 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01200	A92 at J2a Halbeath Southbound	Aug-11	No Data
		Aug-15	14,333
		Sep-15	14,198
		Oct-15	13,618
		Nov-15	13,325
		Dec-15	7,404
		Jan-16	11,556
		Feb-16	12,995
		Mar-16	13,869
		Apr-16	14,031
		May-16	14,185
		Jun-16	14,167
		Jul-16	13,987
		Aug-16	14,620
		Sep-16	14,185
	<b>Annual Average</b>	<b>13,139</b>	

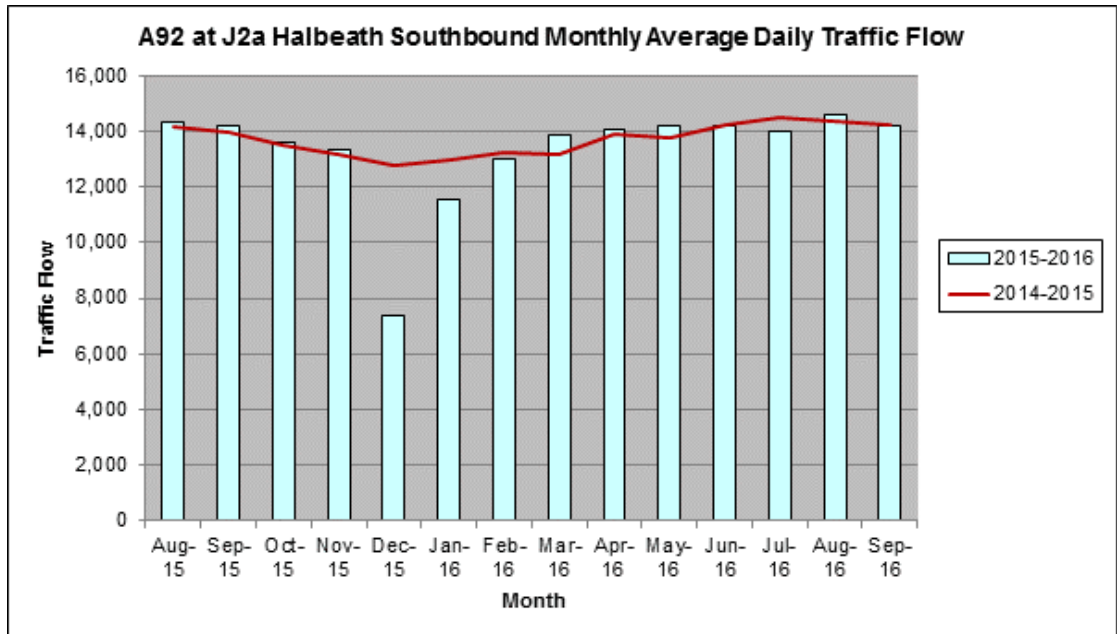


Figure 3-88 Monthly AADTs on the A92 at J2a Halbeath Southbound

### 3.20.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-66 Site: NTC01200 Monthly Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01200	A92 at J2a Halbeath Southbound	Aug-11	No Data	No Data
		Aug-15	2,772	2,853
		Sep-15	2,856	2,821
		Oct-15	2,636	2,672
		Nov-15	2,502	2,602
		Dec-15	1,350	1,232
		Jan-16	2,291	2,268
		Feb-16	2,648	2,563
		Mar-16	2,767	2,809
		Apr-16	2,754	2,772
		May-16	2,739	2,833
		Jun-16	2,817	2,764
		Jul-16	2,694	2,683
		Aug-16	2,806	2,846
Sep-16	2,755	2,791		
	<b>Annual Average</b>	<b>2,569</b>	<b>2,573</b>	

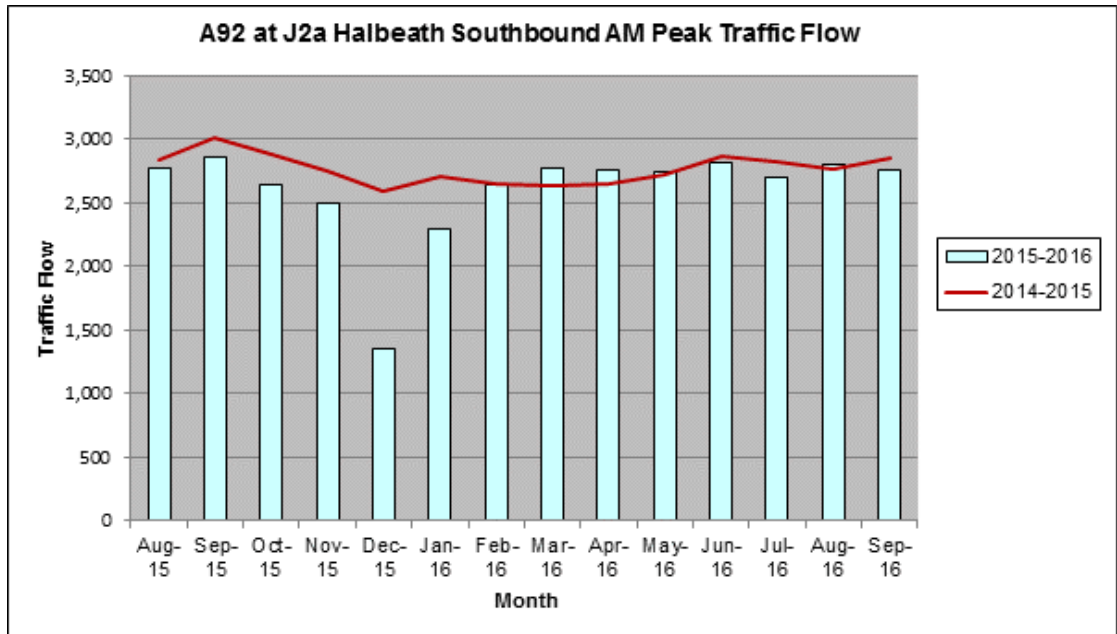


Figure 3-89 Monthly AM Peak Flows on the A92 at J2a Halbeath Southbound

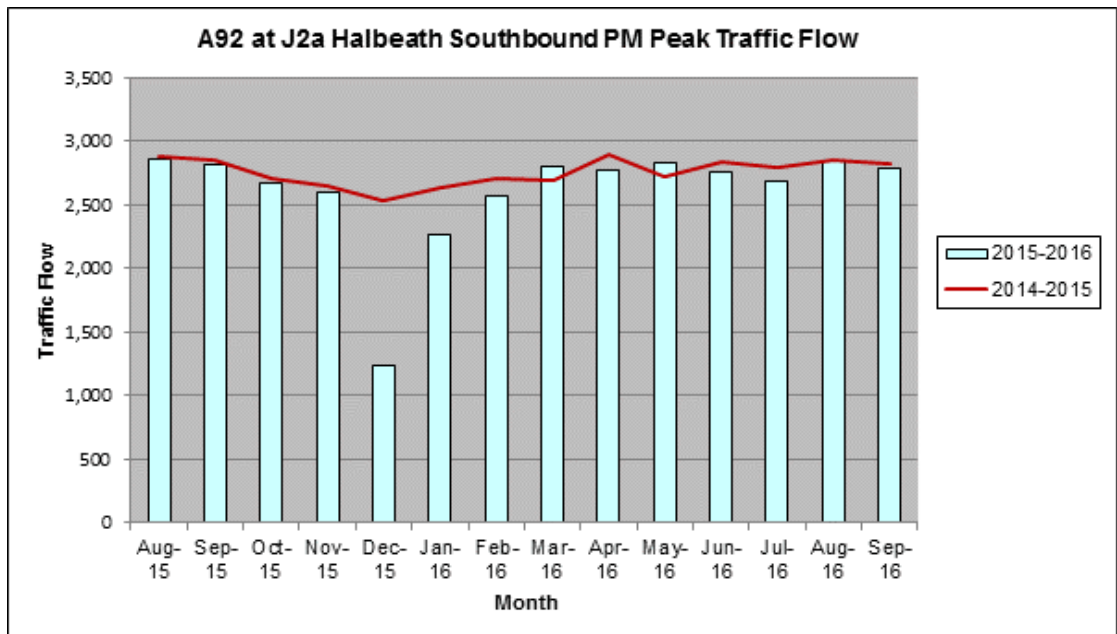


Figure 3-90 Monthly PM Peak Flows on the A92 at J2a Halbeath Southbound

### 3.20.3 Monthly Average HGV Flows

Table 3-67 Site: NTC01200 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	SB
NTC01200	A92 at J2a Halbeath Southbound	Aug-11	No Data
		Aug-15	781
		Sep-15	832
		Oct-15	788
		Nov-15	752
		Dec-15	503
		Jan-16	570
		Feb-16	665
		Mar-16	776
		Apr-16	750
		May-16	749
		Jun-16	771
		Jul-16	714
		Aug-16	775
		Sep-16	785
		<b>Annual Average</b>	<b>721</b>

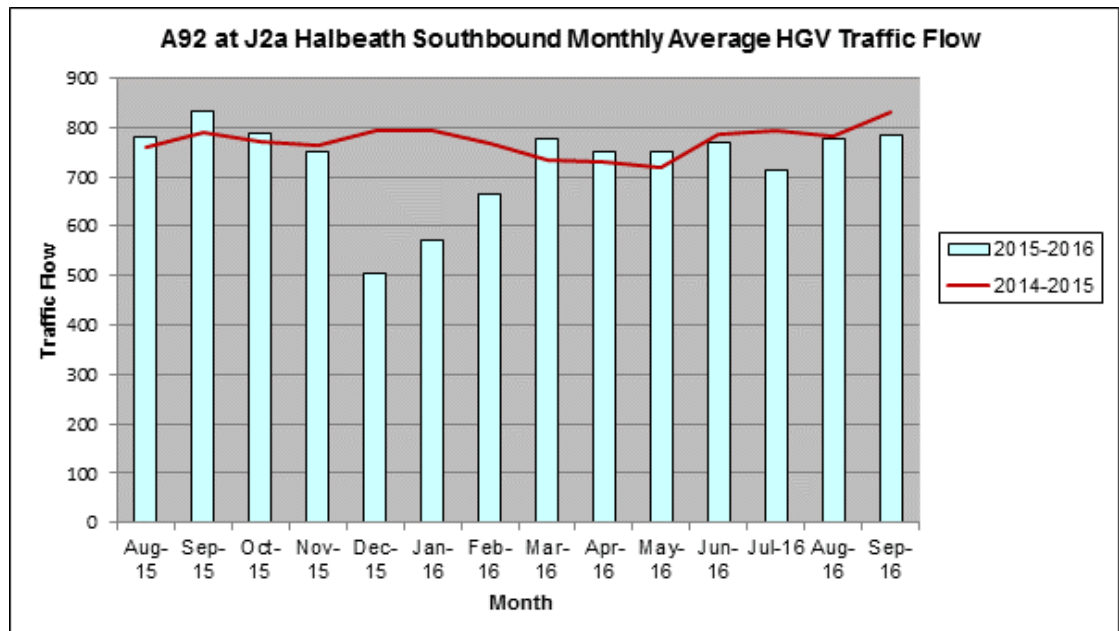


Figure 3-91 Monthly HGV Traffic Flows on the A92 at J2a Halbeath Southbound

### 3.21 Traffic Counter NTC01189 - M90 at J3 Crossgates Northbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016 and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows are consistent with the previous monitoring period, with the exceptions of December 2015, January 2016 and February 2016.
- No data recorded since May 2016 due to counter awaiting loop re-cut.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.21.1 Monthly Average Traffic Flows

**Table 3-68 Site: NTC01189 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
NTC01189	M90 at J3 Crossgates Northbound	Aug-11	No Data
		Aug-15	13,825
		Sep-15	13,443
		Oct-15	12,295
		Nov-15	12,064
		Dec-15	5,579
		Jan-16	9,352
		Feb-16	10,924
		Mar-16	11,949
		Apr-16	12,317
		May-16	12,218
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
	<b>Annual Average</b>	<b>11,397</b>	

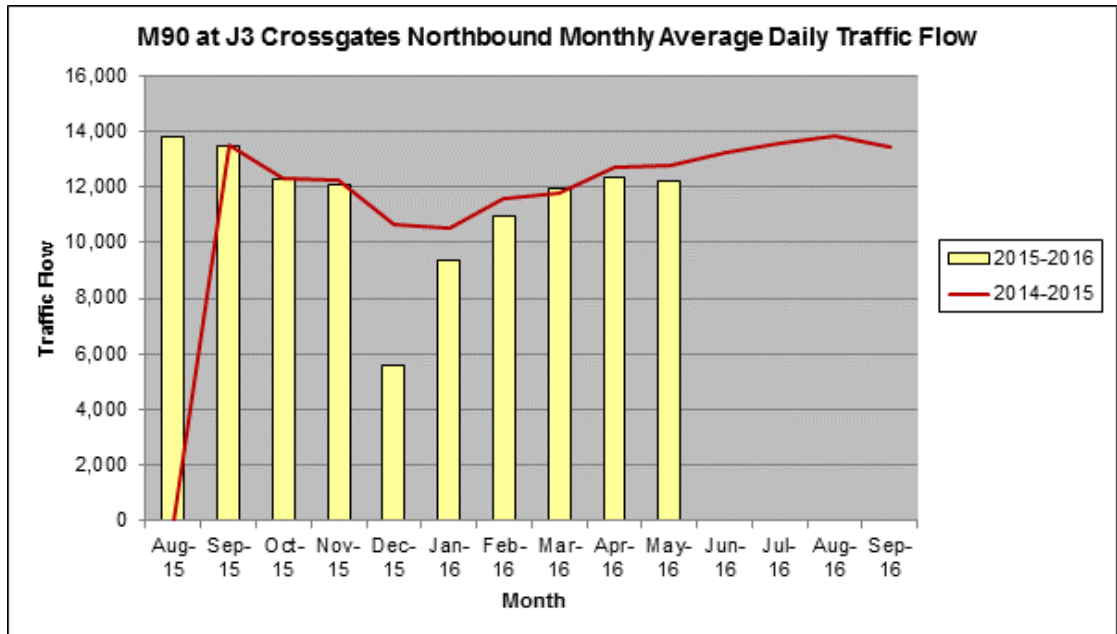


Figure 3-92 Monthly AADTs on the M90 at J3 Crossgates Northbound

### 3.21.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-69 Site: NTC01189 Monthly Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01189	M90 at J3 Crossgates Northbound	Aug-11	No Data	No Data
		Aug-15	2,272	2,962
		Sep-15	2,387	2,988
		Oct-15	2,123	2,735
		Nov-15	2,102	2,738
		Dec-15	817	1,302
		Jan-16	1,536	2,321
		Feb-16	1,903	2,589
		Mar-16	2,104	2,801
		Apr-16	2,087	2,775
		May-16	2,098	2,751
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>1,943</b>	<b>2,596</b>	

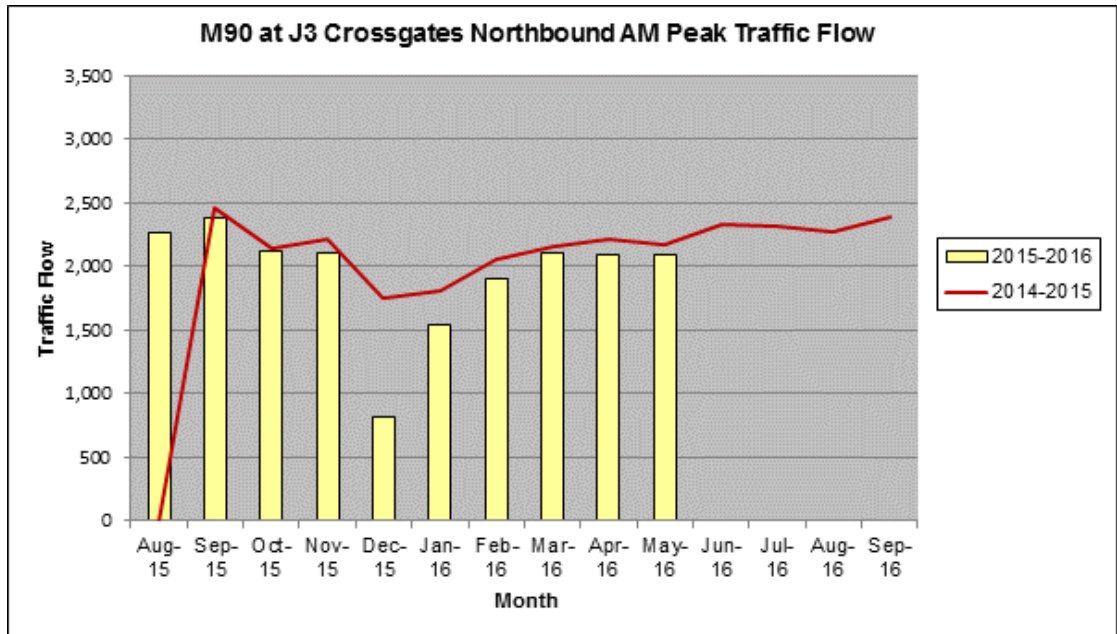


Figure 3-93 Monthly AM Peak Flows on the M90 at J3 Crossgates Northbound

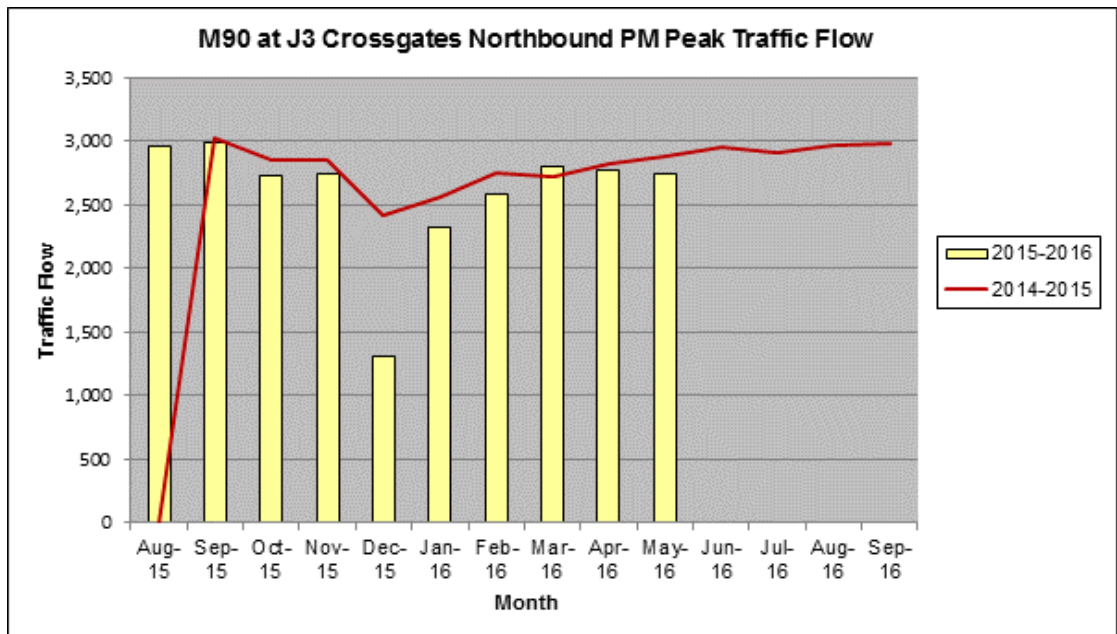


Figure 3-94 Monthly PM Peak Flows on the M90 at J3 Crossgates Northbound

### 3.21.3 Monthly Average HGV Flows

Table 3-70 Site: NTC01189 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	NB
NTC01189	M90 at J3 Crossgates Northbound	Aug-11	No Data
		Aug-15	883
		Sep-15	960
		Oct-15	832
		Nov-15	847
		Dec-15	235
		Jan-16	188
		Feb-16	429
		Mar-16	840
		Apr-16	834
		May-16	843
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	<b>689</b>

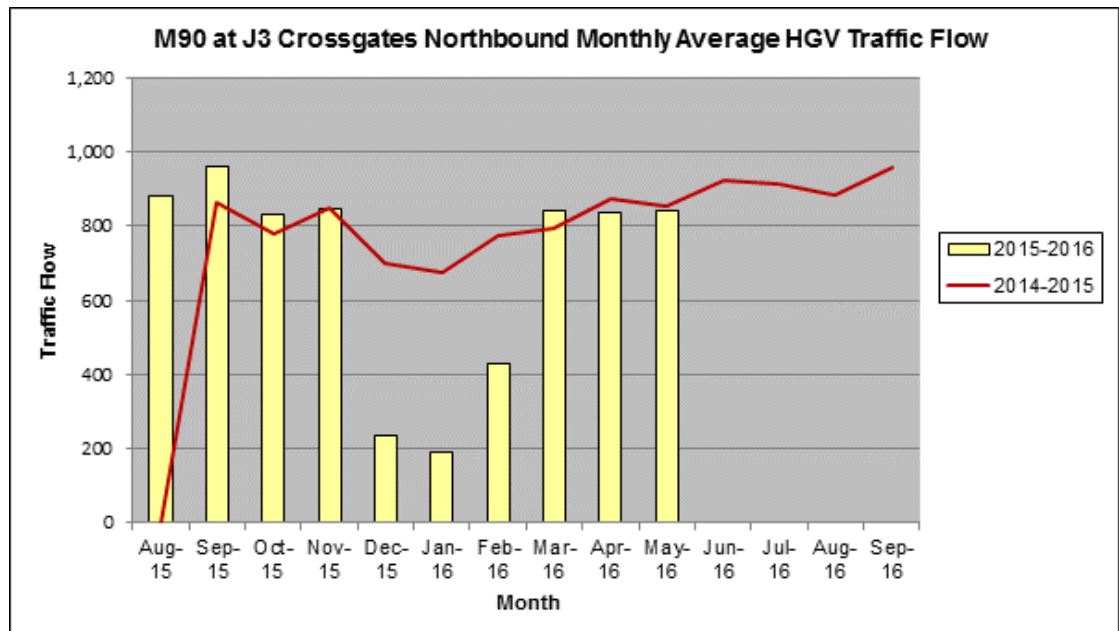


Figure 3-95 Monthly HGV Traffic Flows on the M90 at J3 Crossgates Northbound



### 3.22 Traffic Counter NTC01190 - M90 at J3 Crossgates On-Ramp Northbound

Summary of statistics between August 2015 and September 2016:

- No data since March 2016 due to counter awaiting loop re-cut.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.22.1 Monthly Average Traffic Flows

**Table 3-71 Site: NTC01190 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
NTC01190	M90 at J3 Crossgates On-Ramp Northbound	Aug-11	No Data
		Aug-15	No Data
		Sep-15	No Data
		Oct-15	No Data
		Nov-15	3,490
		Dec-15	3,689
		Jan-16	3,314
		Feb-16	3,430
		Mar-16	3,732
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
<b>Annual Average</b>	<b>3,531</b>		

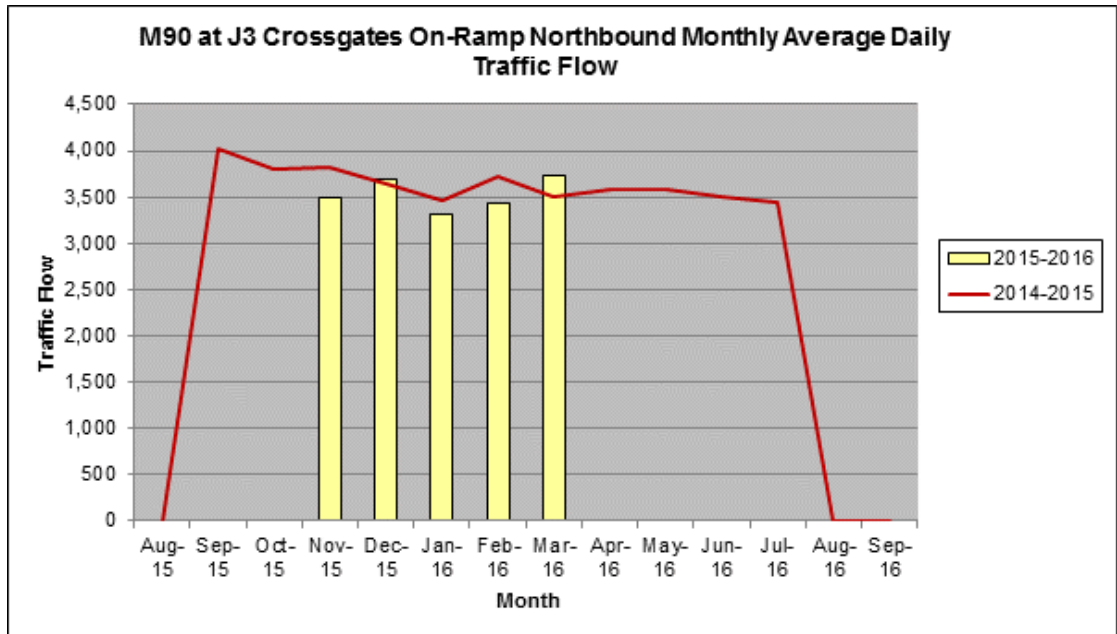


Figure 3-96 Monthly AADTs on the M90 at J3 Crossgates On-Ramp Northbound

### 3.22.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-72 Site: NTC01190 Monthly Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01190	M90 at J3 Crossgates On-Ramp Northbound	Aug-11	No Data	No Data
		Aug-15	No Data	No Data
		Sep-15	No Data	No Data
		Oct-15	No Data	No Data
		Nov-15	613	837
		Dec-15	591	814
		Jan-16	561	793
		Feb-16	601	831
		Mar-16	654	887
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>604</b>	<b>833</b>	

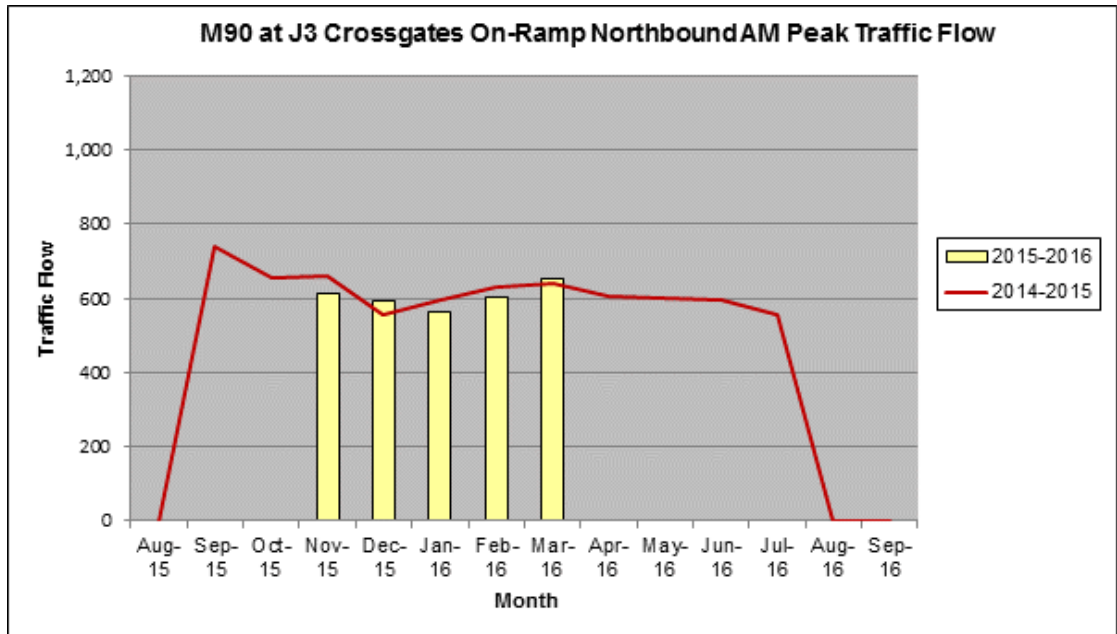


Figure 3-97 Monthly AM Peak Flows on the M90 at J3 Crossgates On-Ramp Northbound

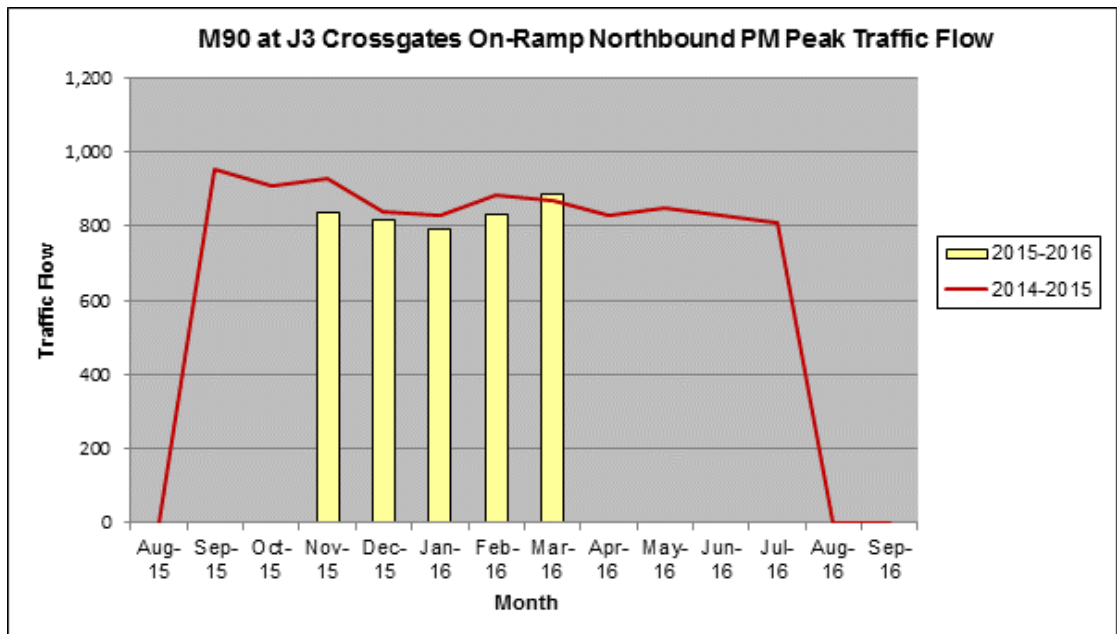


Figure 3-98 Monthly PM Peak Flows on the M90 at J3 Crossgates On-Ramp Northbound

### 3.22.3 Monthly Average HGV Flows

Table 3-73 Site: NTC01190 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	NB
NTC01190	M90 at J3 Crossgates On-Ramp Northbound	Aug-11	No Data
		Aug-15	No Data
		Sep-15	No Data
		Oct-15	No Data
		Nov-15	432
		Dec-15	353
		Jan-16	366
		Feb-16	294
		Mar-16	342
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data

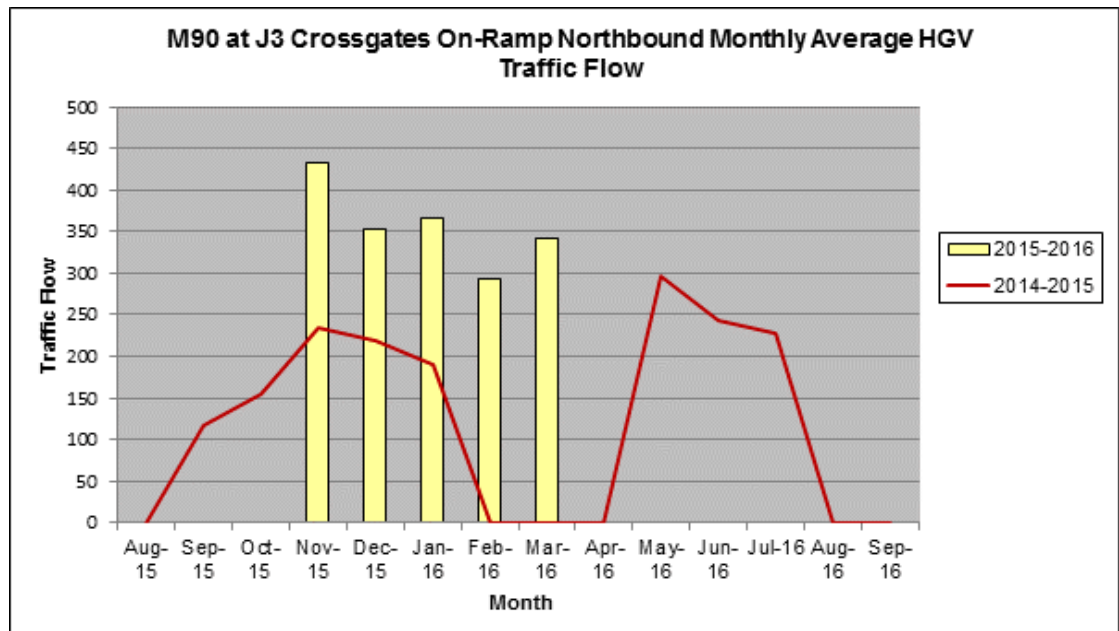


Figure 3-99 Monthly HGV Traffic Flows on the M90 at J3 Crossgates On-Ramp Northbound

### 3.23 Traffic Counter NTC01191 - M90 at J3 Crossgates Southbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.23.1 Monthly Average Traffic Flows

**Table 3-74 Site: NTC01191 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01191	M90 at J3 Crossgates Southbound	Aug-11	No Data
		Aug-15	13,357
		Sep-15	12,930
		Oct-15	11,785
		Nov-15	11,055
		Dec-15	4,655
		Jan-16	8,876
		Feb-16	10,403
		Mar-16	11,686
		Apr-16	11,991
		May-16	12,750
		Jun-16	12,882
		Jul-16	12,737
		Aug-16	13,181
		Sep-16	12,819
	<b>Annual Average</b>	<b>11,259</b>	

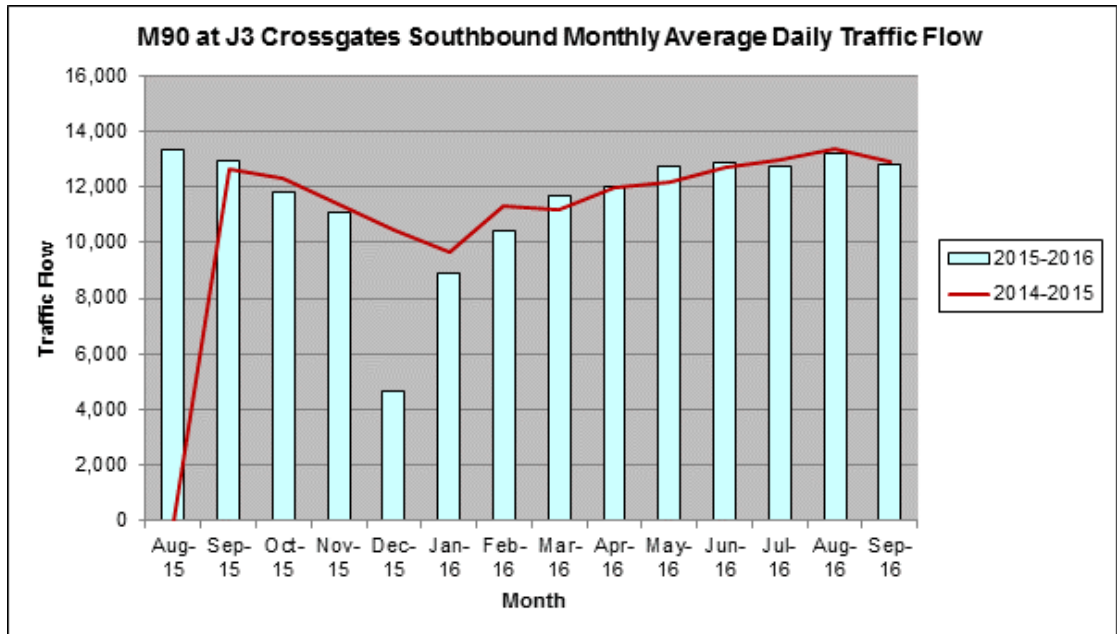


Figure 3-100 Monthly AADTs on the M90 at J3 Crossgates Southbound

### 3.23.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-75 Site: NTC01191 Monthly Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01191	M90 at J3 Crossgates Southbound	Aug-11	No Data	No Data
		Aug-15	2,052	2,938
		Sep-15	2,152	2,888
		Oct-15	1,880	2,607
		Nov-15	1,875	2,393
		Dec-15	715	921
		Jan-16	1,470	1,997
		Feb-16	1,762	2,320
		Mar-16	1,996	2,590
		Apr-16	1,951	2,622
		May-16	2,036	2,791
		Jun-16	2,262	2,748
		Jul-16	1,911	2,650
		Aug-16	2,103	2,809
Sep-16	2,084	2,844		
	<b>Annual Average</b>	<b>1,838</b>	<b>2,455</b>	

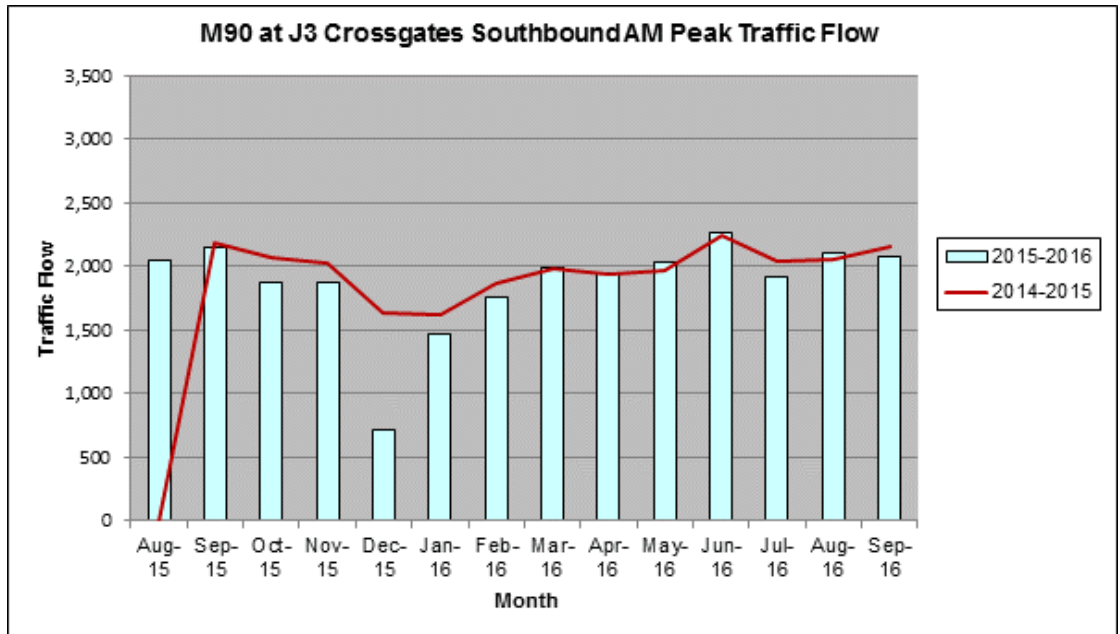


Figure 3-101 Monthly AM Peak Flows on the M90 at J3 Crossgates Southbound

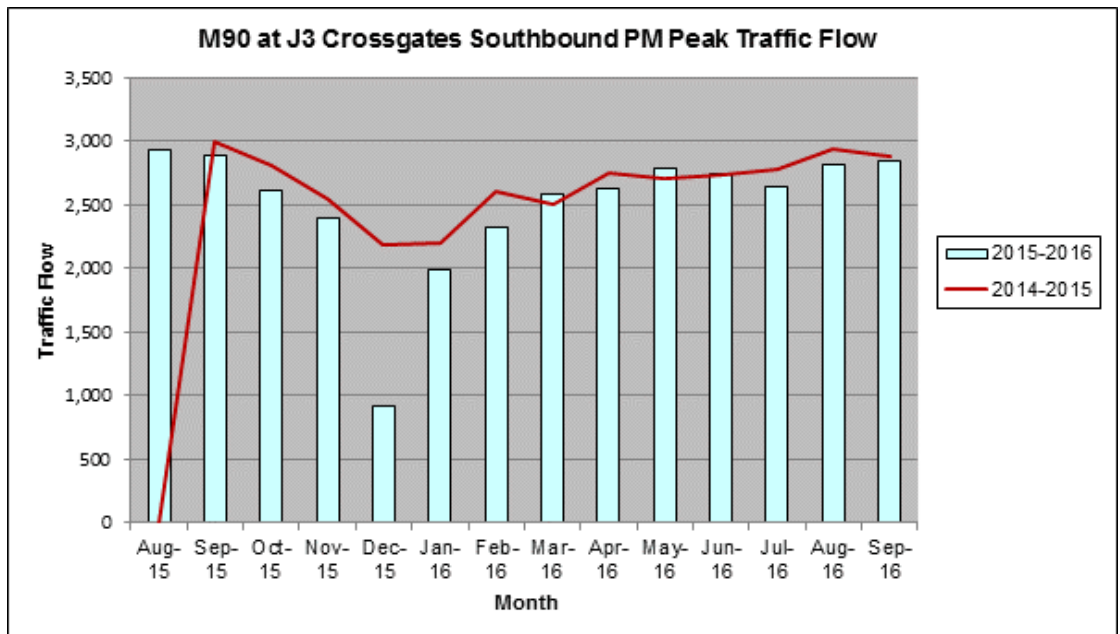
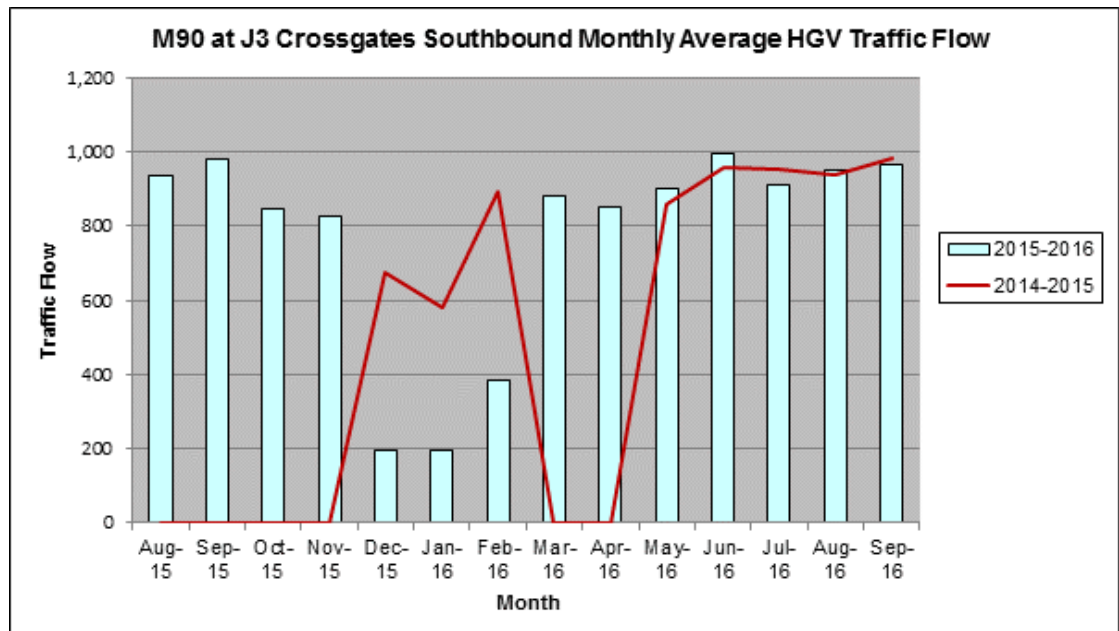


Figure 3-102 Monthly PM Peak Flows on the M90 at J3 Crossgates Southbound

### 3.23.3 Monthly Average HGV Flows

**Table 3-76 Site: NTC01191 Annual HGV Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01191	M90 at J3 Crossgates Southbound	Aug-11	No Data
		Aug-15	936
		Sep-15	981
		Oct-15	845
		Nov-15	829
		Dec-15	194
		Jan-16	193
		Feb-16	384
		Mar-16	883
		Apr-16	853
		May-16	899
		Jun-16	998
		Jul-16	909
		Aug-16	953
		Sep-16	965



**Figure 3-103 Monthly HGV Traffic Flows on the M90 at J3 Crossgates Southbound**



### 3.24 Traffic Counter NTC01192 - M90 at J3 Crossgates Off-Ramp to A92 Southbound

Summary of statistics between August 2015 and September 2016:

- Traffic flows are indicative of typical seasonal variation; higher flows over the summer months.
- Traffic flows follow a similar pattern to the previous monitoring period.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.24.1 Monthly Average Traffic Flows

**Table 3-77 Site: NTC01192 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01192	M90 at J3 Crossgates Off-Ramp to A92 Southbound	Aug-11	No Data
		Aug-15	4,231
		Sep-15	4,154
		Oct-15	4,104
		Nov-15	4,279
		Dec-15	4,444
		Jan-16	3,802
		Feb-16	4,169
		Mar-16	4,374
		Apr-16	4,286
		May-16	4,199
		Jun-16	4,502
		Jul-16	4,195
		Aug-16	4,419
		Sep-16	4,465
<b>Annual Average</b>	<b>4,228</b>		

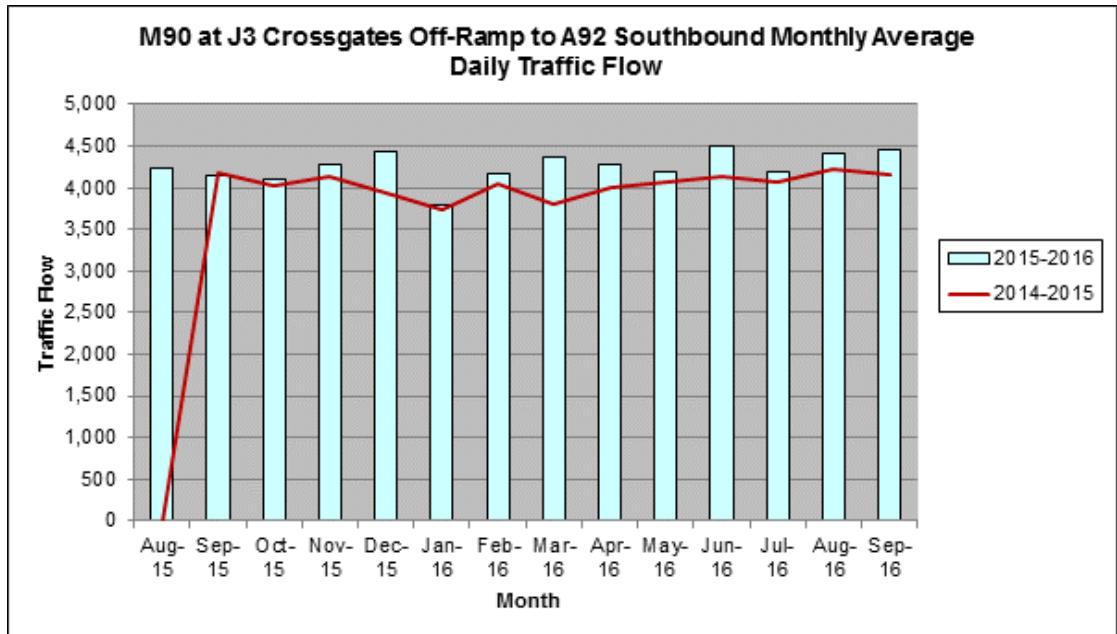


Figure 3-104 Monthly AADTs on the M90 at J3 Crossgates Off-Ramp to A92 Southbound

### 3.24.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-78 Site: NTC01192 Monthly Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01192	M90 at J3 Crossgates Off-Ramp to A92 Southbound	Aug-11	No Data	No Data
		Aug-15	658	1,098
		Sep-15	778	1,089
		Oct-15	756	1,046
		Nov-15	880	1,014
		Dec-15	766	1,052
		Jan-16	715	942
		Feb-16	814	1,028
		Mar-16	839	1,077
		Apr-16	775	1,063
		May-16	795	1,032
		Jun-16	799	1,084
		Jul-16	625	1,030
		Aug-16	744	1,144
Sep-16	896	1,123		
	<b>Annual Average</b>	<b>767</b>	<b>1,046</b>	

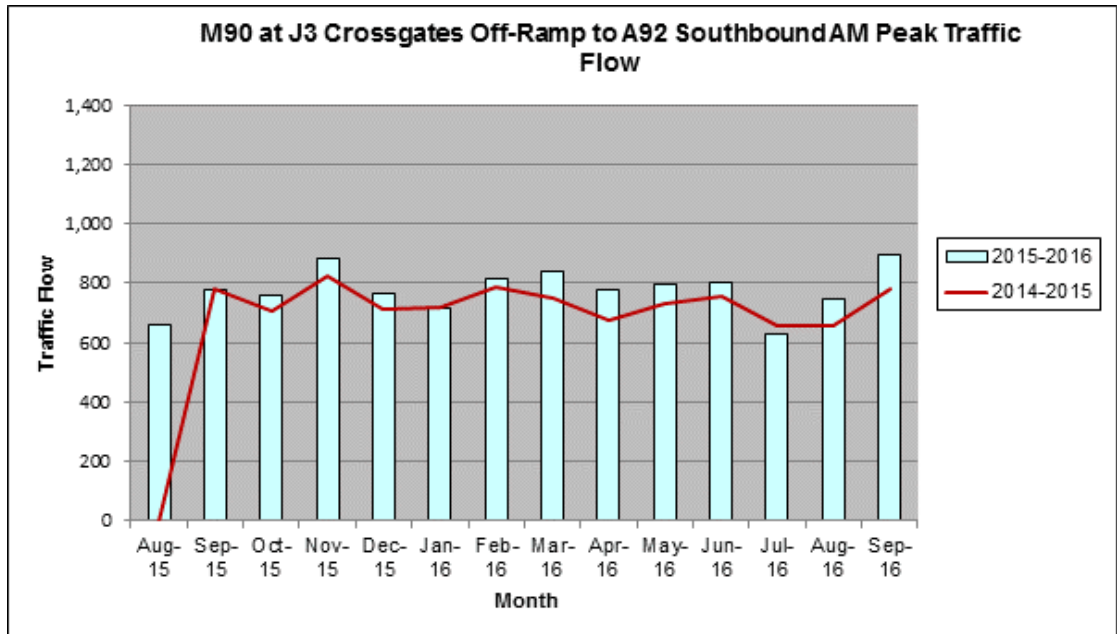


Figure 3-105 Monthly AM Peak Flows on the M90 at J3 Crossgates Off-Ramp to A92 Southbound

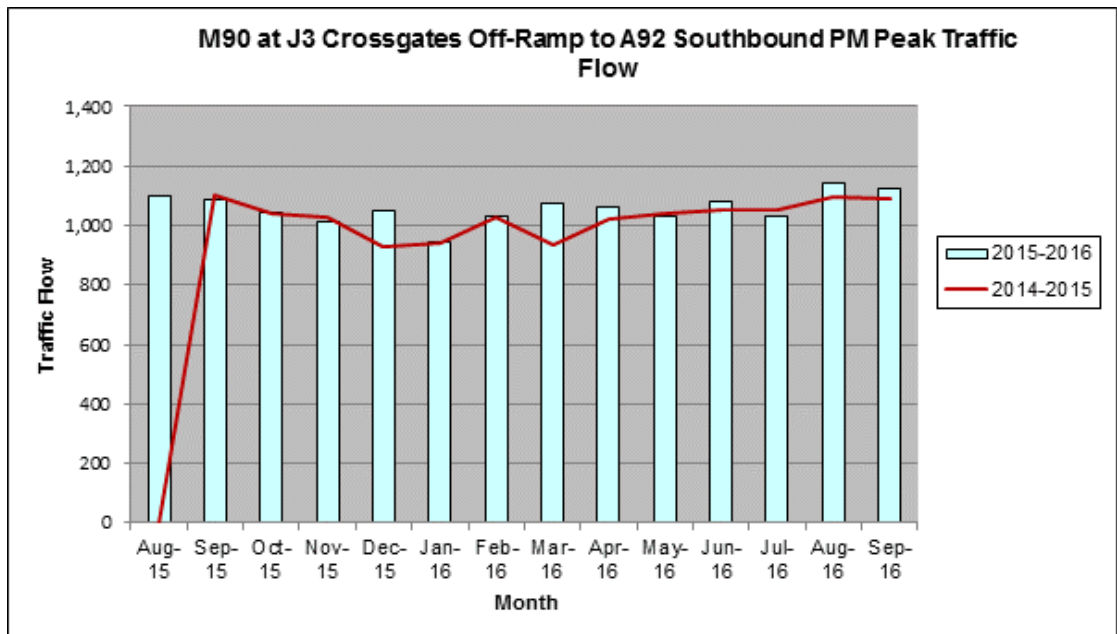
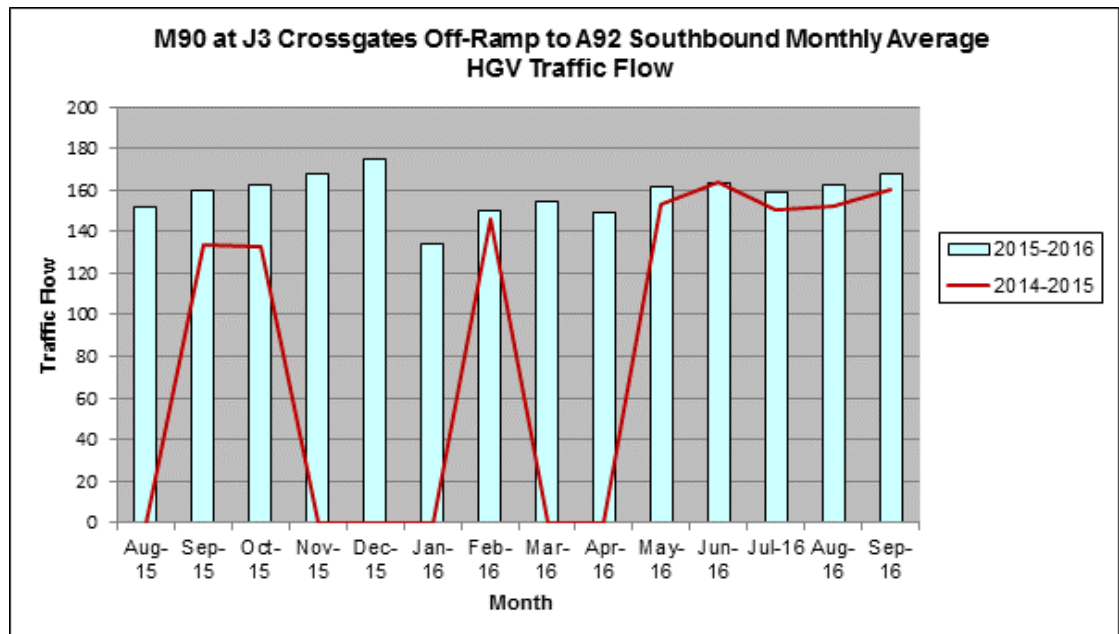


Figure 3-106 Monthly PM Peak Flows on the M90 at J3 Crossgates Off-Ramp to A92 Southbound

### 3.24.3 Monthly Average HGV Flows

**Table 3-79 Site: NTC01192 Annual HGV Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01192	M90 at J3 Crossgates Off-Ramp to A92 Southbound	Aug-11	No Data
		Aug-15	152
		Sep-15	160
		Oct-15	162
		Nov-15	168
		Dec-15	175
		Jan-16	134
		Feb-16	150
		Mar-16	154
		Apr-16	149
		May-16	161
		Jun-16	163
		Jul-16	159
		Aug-16	162
		Sep-16	168
		<b>Annual Average</b>	<b>157</b>



**Figure 3-107 Monthly HGV Traffic Flows on the M90 at J3 Crossgates Off-Ramp to A92 Southbound**

### 3.25 Traffic Counter NTC01193 - M90 North of J3 Crossgates Northbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- Flows follow a similar trend to the previous monitoring period.
- No data since May 2016 due to counter awaiting loop re-cut.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.25.1 Monthly Average Traffic Flows

**Table 3-80 Site: NTC01193 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
NTC01193	M90 North of J3 Crossgates Northbound	Aug-11	No Data
		Aug-15	17,830
		Sep-15	17,284
		Oct-15	16,146
		Nov-15	14,158
		Dec-15	9,199
		Jan-16	12,810
		Feb-16	15,062
		Mar-16	16,569
		Apr-16	16,933
		May-16	17,038
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
	<b>Annual Average</b>	<b>15,303</b>	

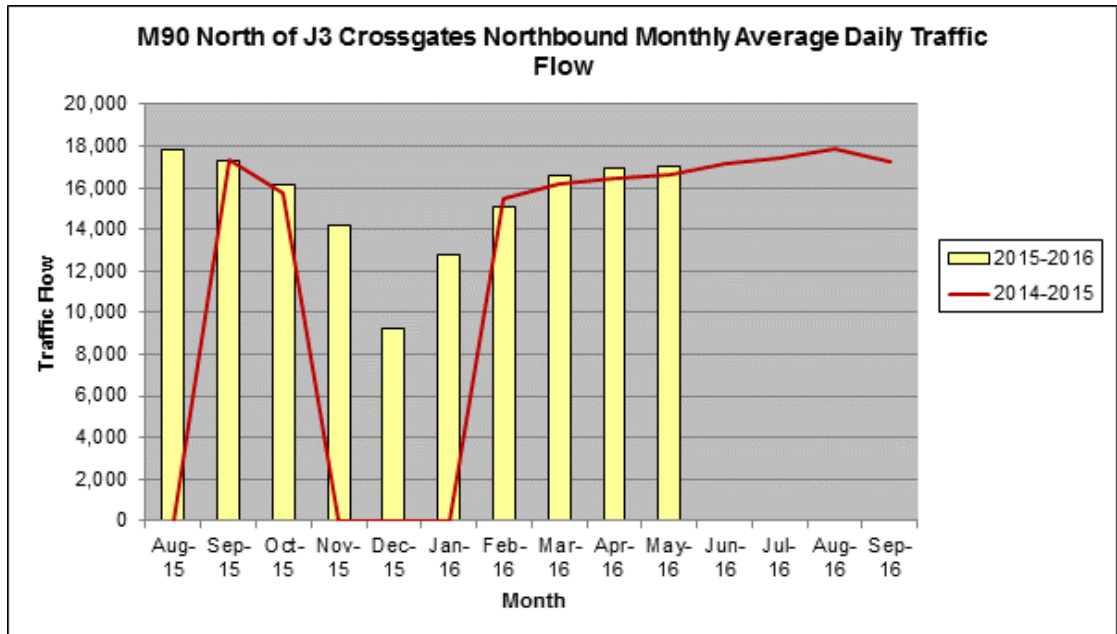


Figure 3-108 Monthly AADTs on the M90 North of J3 Crossgates Northbound

### 3.25.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-81 Site: NTC01193 Monthly Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01193	M90 North of J3 Crossgates Northbound	Aug-11	No Data	No Data
		Aug-15	2,912	3,939
		Sep-15	3,099	3,924
		Oct-15	2,797	3,657
		Nov-15	2,507	3,145
		Dec-15	1,384	2,062
		Jan-16	2,103	3,160
		Feb-16	2,673	3,616
		Mar-16	2,966	3,894
		Apr-16	2,904	3,934
		May-16	2,973	3,942
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>2,632</b>	<b>3,527</b>	

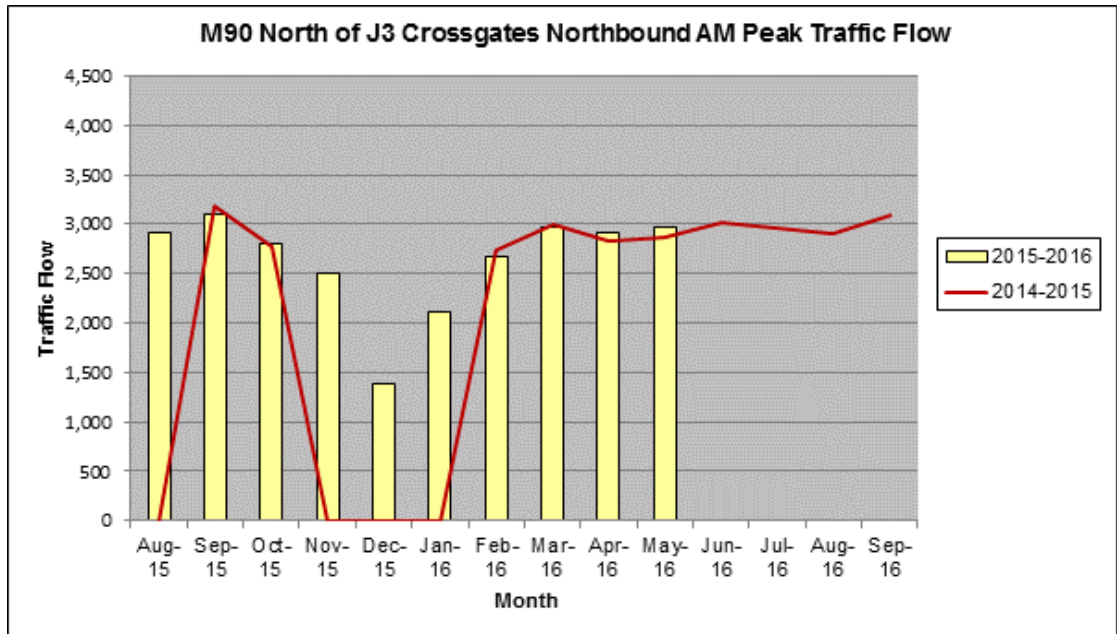


Figure 3-109 Monthly AM Peak Flows on the M90 North of J3 Crossgates Northbound

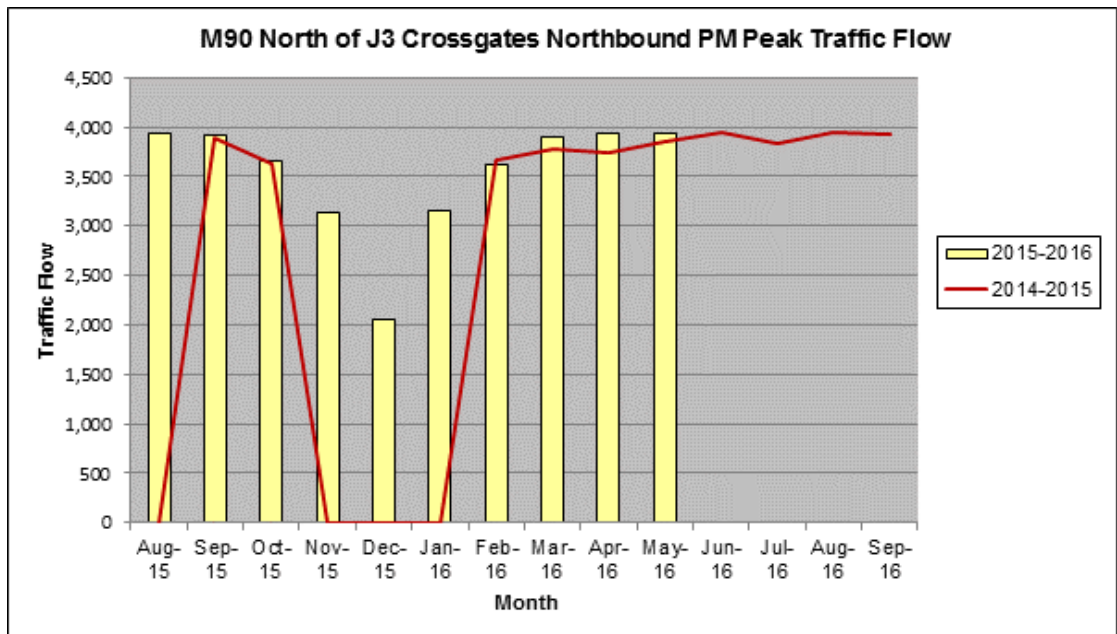
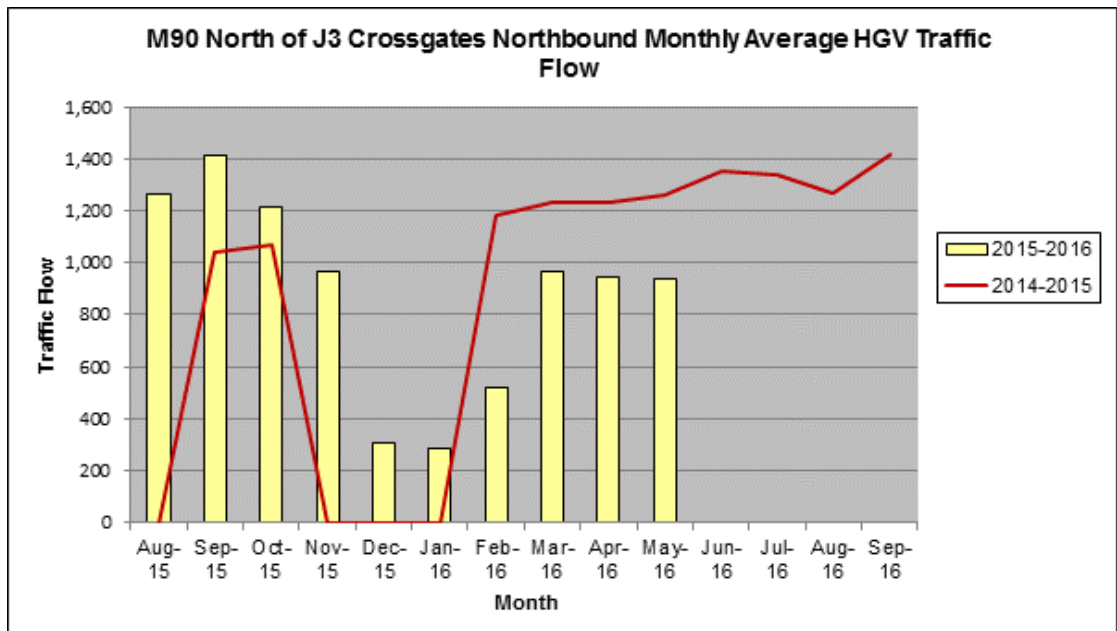


Figure 3-110 Monthly PM Peak Flows on the M90 North of J3 Crossgates Northbound

### 3.25.3 Monthly Average HGV Flows

**Table 3-82 Site: NTC01193 Annual HGV Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
NTC01193	M90 North of J3 Crossgates Northbound	Aug-11	No Data
		Aug-15	1,265
		Sep-15	1,413
		Oct-15	1,215
		Nov-15	969
		Dec-15	309
		Jan-16	287
		Feb-16	518
		Mar-16	964
		Apr-16	944
		May-16	935
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data



**Figure 3-111 Monthly HGV Traffic Flows on the M90 North of J3 Crossgates Northbound**



### 3.26 Traffic Counter NTC01194 - M90 North of J3 Crossgates Southbound

Summary of statistics between August 2015 and September 2016:

- Traffic flows are consistent with the previous monitoring period.
- Misclassification of vehicles has been observed from December 2015 to February 2016.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.26.1 Monthly Average Traffic Flows

**Table 3-83 Site: NTC01194 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01194	M90 North of J3 Crossgates Southbound	Aug-11	No Data
		Aug-15	17,017
		Sep-15	16,731
		Oct-15	15,656
		Nov-15	14,574
		Dec-15	8,676
		Jan-16	12,298
		Feb-16	13,971
		Mar-16	15,203
		Apr-16	15,516
		May-16	15,992
		Jun-16	16,273
		Jul-16	15,842
		Aug-16	16,579
		Sep-16	16,371
	<b>Annual Average</b>	<b>14,812</b>	

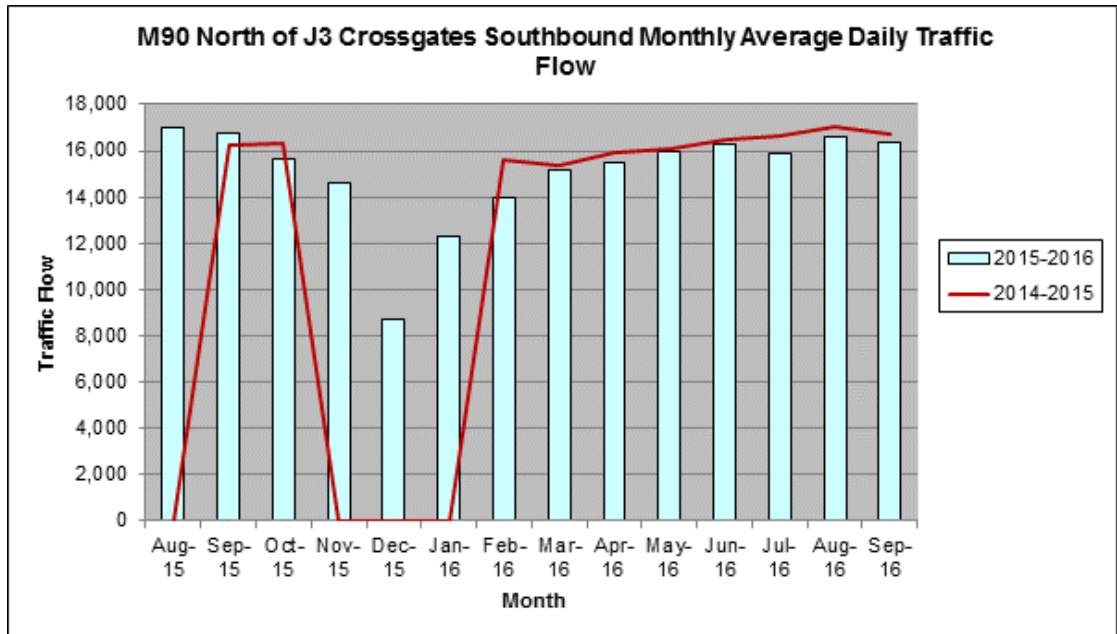


Figure 3-112 Monthly AADTs on the M90 North of J3 Crossgates Southbound

### 3.26.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-84 Site: NTC01194 Monthly Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01194	M90 North of J3 Crossgates Southbound	Aug-11	No Data	No Data
		Aug-15	2,614	3,846
		Sep-15	2,850	3,850
		Oct-15	2,594	3,549
		Nov-15	2,516	3,253
		Dec-15	1,403	1,866
		Jan-16	2,129	2,853
		Feb-16	2,461	3,239
		Mar-16	2,646	3,478
		Apr-16	2,560	3,509
		May-16	2,616	3,546
		Jun-16	2,789	3,593
		Jul-16	2,342	3,494
		Aug-16	2,643	3,709
		Sep-16	2,805	3,707
	<b>Annual Average</b>	<b>2,460</b>	<b>3,340</b>	

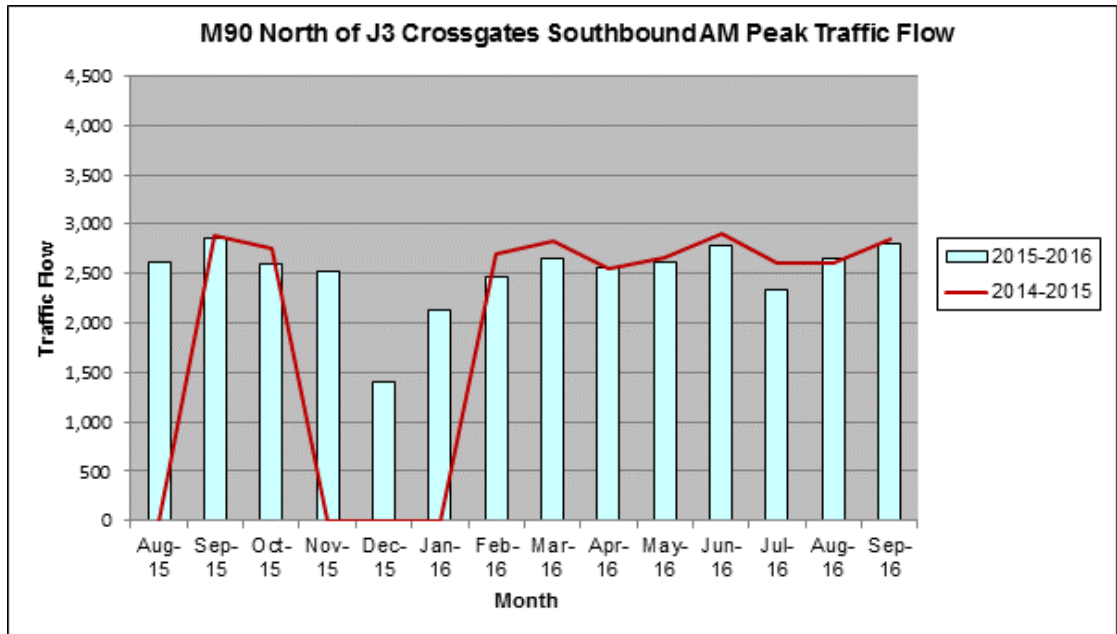


Figure 3-113 Monthly AM Peak Flows on the M90 North of J3 Crossgates Southbound

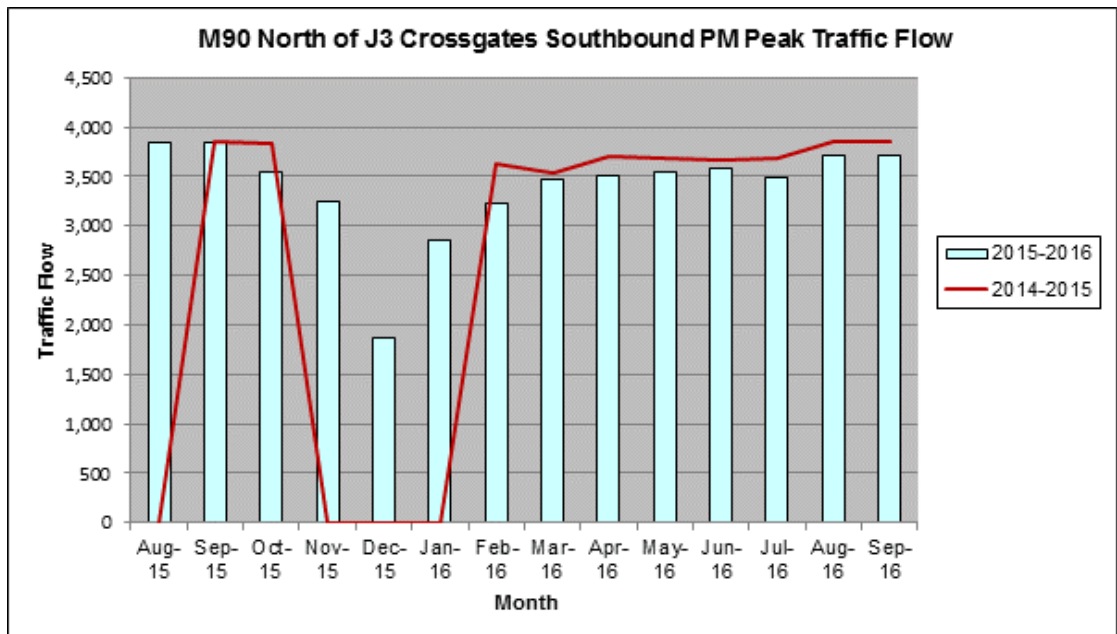


Figure 3-114 Monthly PM Peak Flows on the M90 North of J3 Crossgates Southbound

### 3.26.3 Monthly Average HGV Flows

Table 3-85 Site: NTC01194 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	SB
NTC01194	M90 North of J3 Crossgates Southbound	Aug-11	No Data
		Aug-15	1,062
		Sep-15	1,116
		Oct-15	988
		Nov-15	No Data*
		Dec-15	No Data*
		Jan-16	No Data*
		Feb-16	531
		Mar-16	1,014
		Apr-16	985
		May-16	1,002
		Jun-16	1,065
		Jul-16	1,015
		Aug-16	1,043
		Sep-16	1,044
		<b>Annual Average</b>	<b>975</b>

(\*) Misclassification of vehicles.

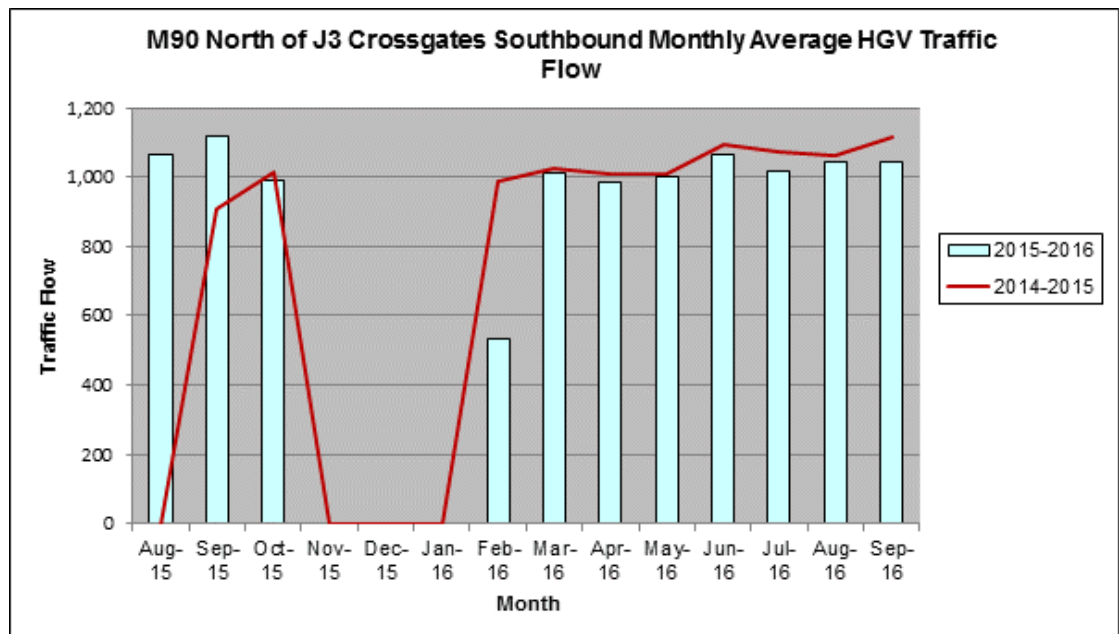


Figure 3-115 Monthly HGV Traffic Flows on the M90 North of J3 Crossgates Southbound

### 3.27 Traffic Counter NTC01212 - A823M West of J2 Masterton Eastbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.27.1 Monthly Average Traffic Flows

**Table 3-86 Site: NTC01212 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB
NTC01212	A823M West of J2 Masterton Eastbound	Aug-11	No Data
		Aug-15	9,230
		Sep-15	9,468
		Oct-15	8,974
		Nov-15	9,505
		Dec-15	6,130
		Jan-16	8,503
		Feb-16	9,458
		Mar-16	9,783
		Apr-16	9,590
		May-16	9,590
		Jun-16	9,732
		Jul-16	9,093
		Aug-16	10,286
Sep-16	10,060		
	<b>Annual Average</b>	<b>9,088</b>	

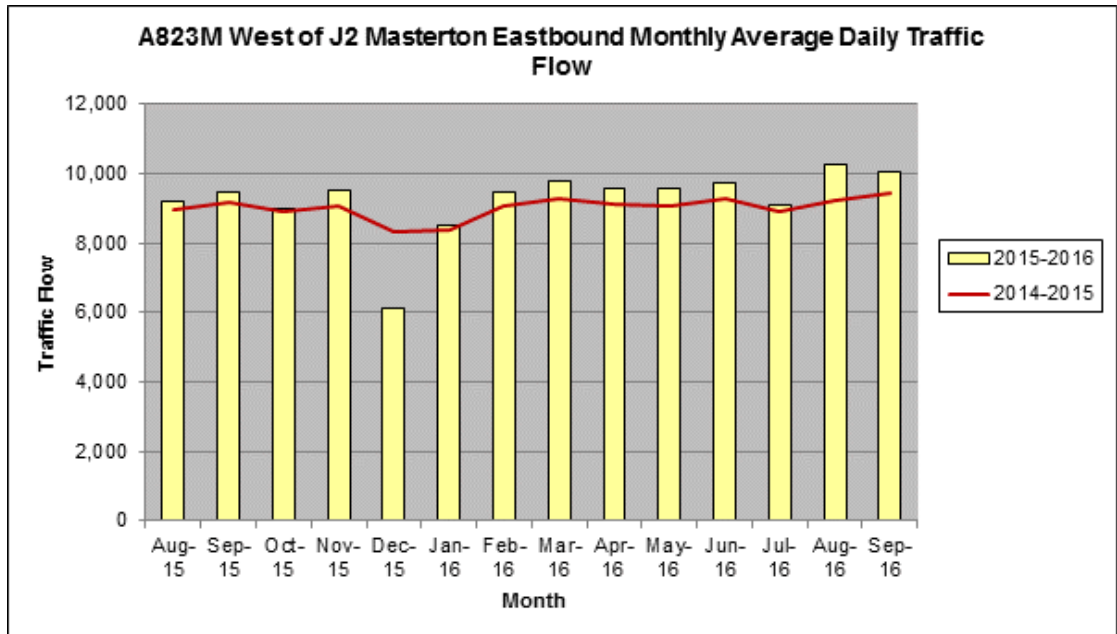


Figure 3-116 Monthly AADTs on the A823M West of J2 Masterton Eastbound

### 3.27.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-87 Site: NTC01212 Monthly Eastbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01212	A823M West of J2 Masterton Eastbound	Aug-11	No Data	No Data
		Aug-15	1,692	2,253
		Sep-15	1,807	2,404
		Oct-15	1,685	2,239
		Nov-15	1,761	2,400
		Dec-15	950	1,581
		Jan-16	1,540	2,264
		Feb-16	1,737	2,521
		Mar-16	1,840	2,618
		Apr-16	1,796	2,498
		May-16	1,792	2,451
		Jun-16	1,822	2,499
		Jul-16	1,647	2,237
		Aug-16	1,914	2,607
		Sep-16	1,923	2,578
	<b>Annual Average</b>	<b>1,672</b>	<b>2,330</b>	

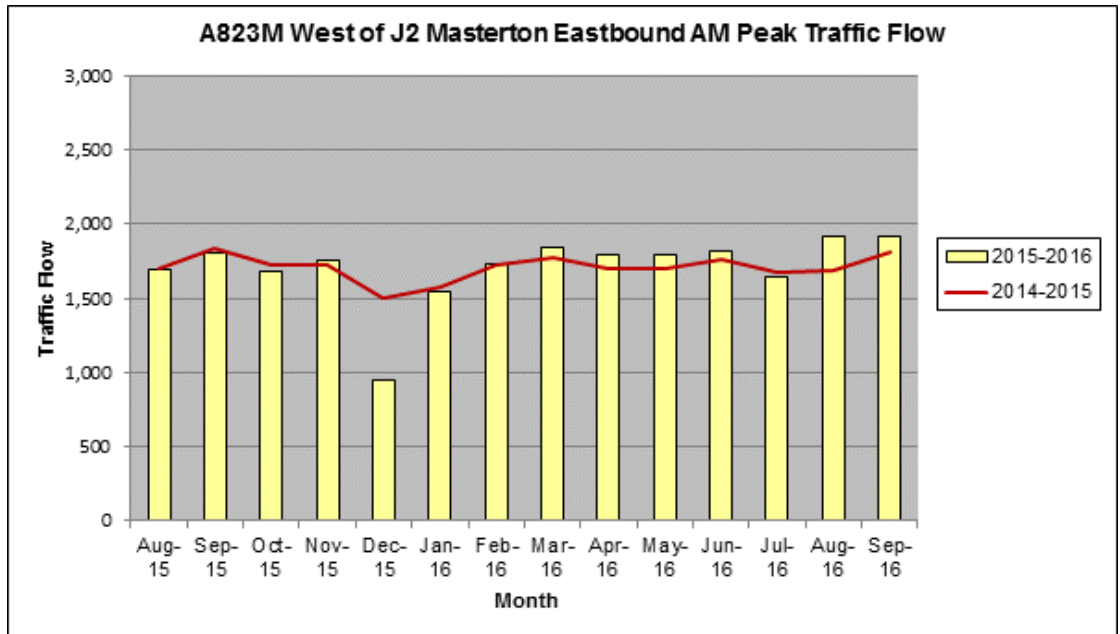


Figure 3-117 Monthly AM Peak Flows on the A823M West of J2 Masterton Eastbound

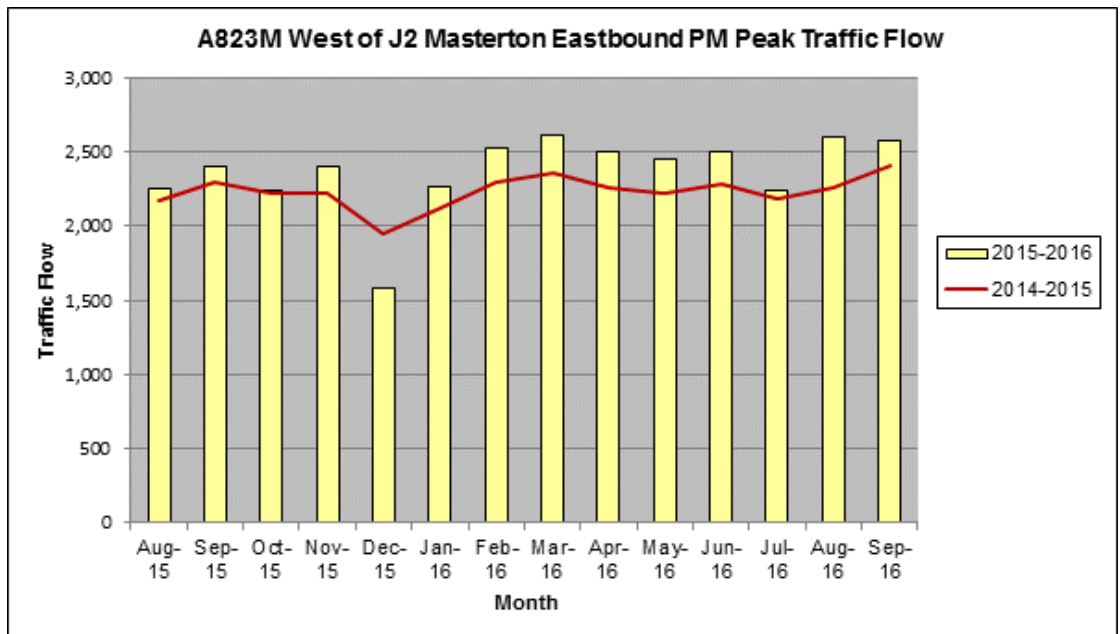


Figure 3-118 Monthly PM Peak Flows on the A823M West of J2 Masterton Eastbound

### 3.27.3 Monthly Average HGV Flows

Table 3-88 Site: NTC01212 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	EB
NTC01212	A823M West of J2 Masterton Eastbound	Aug-11	No Data
		Aug-15	165
		Sep-15	177
		Oct-15	170
		Nov-15	181
		Dec-15	172
		Jan-16	142
		Feb-16	167
		Mar-16	184
		Apr-16	169
		May-16	177
		Jun-16	194
		Jul-16	170
		Aug-16	195
		Sep-16	189
		<b>Annual Average</b>	<b>172</b>

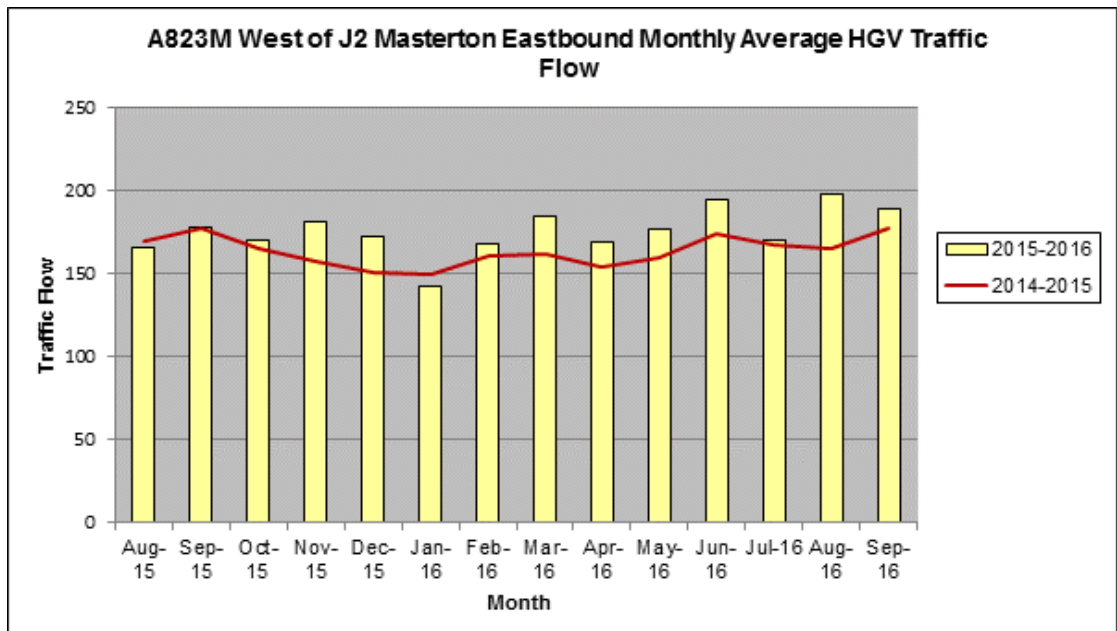


Figure 3-119 Monthly HGV Traffic Flows on the A823M West of J2 Masterton Eastbound



### 3.28 Traffic Counter NTC01231 - M9 at J1 Newbridge Westbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- No data is available for the baseline period, therefore comparisons cannot be made.
- Unusually low traffic flows have been recorded in October 2015 and February 2016. This decrease in traffic is also observed at the counter NTC01101, which is located upstream.

#### 3.28.1 Monthly Average Traffic Flows

**Table 3-89 Site: NTC01231 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	WB
NTC01231	M9 at J1 Newbridge Westbound	Aug-11	No Data
		Aug-15	18,799
		Sep-15	18,897
		Oct-15	10,907
		Nov-15	18,522
		Dec-15	12,544
		Jan-16	14,019
		Feb-16	9,176
		Mar-16	19,203
		Apr-16	19,802
		May-16	19,865
		Jun-16	20,048
		Jul-16	19,933
		Aug-16	20,922
Sep-16	20,079		
	<b>Annual Average</b>	<b>16,900</b>	

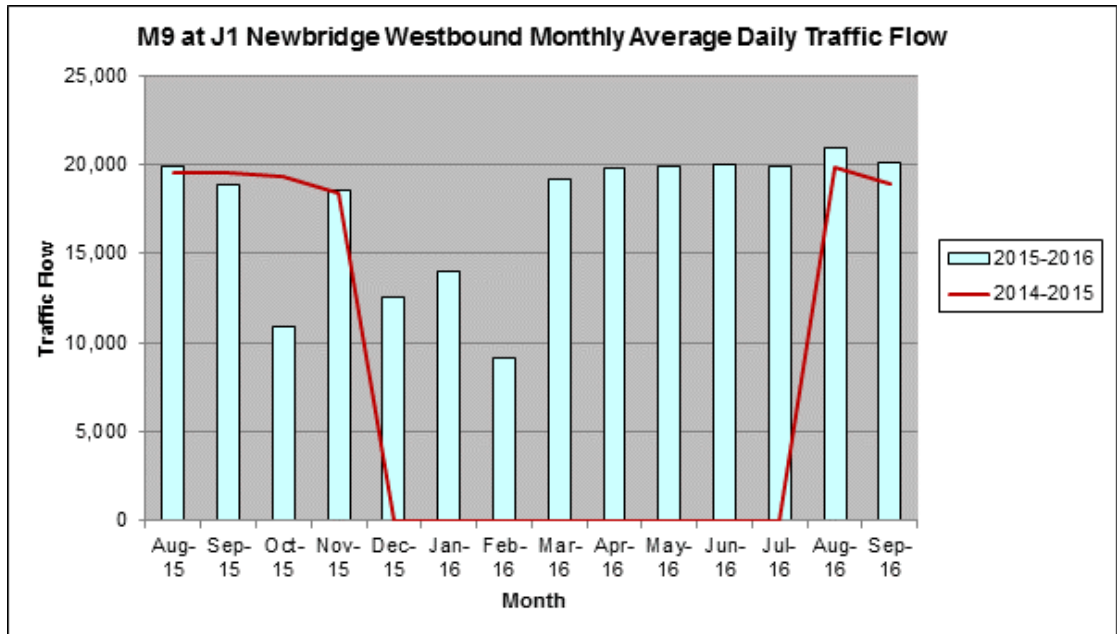


Figure 3-120 Monthly AADTs on the M9 at J1 Newbridge Westbound

### 3.28.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-90 Site: NTC01231 Monthly Westbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01231	M9 at J1 Newbridge Westbound	Aug-11	No Data	No Data
		Aug-15	3,253	4,637
		Sep-15	3,207	4,623
		Oct-15	1,808	2,437
		Nov-15	3,097	4,508
		Dec-15	1,696	2,873
		Jan-16	2,182	3,643
		Feb-16	1,516	2,117
		Mar-16	3,218	4,781
		Apr-16	3,227	4,790
		May-16	3,253	4,805
		Jun-16	3,284	4,845
		Jul-16	3,020	4,724
		Aug-16	3,408	4,954
		Sep-16	3,338	4,822
	<b>Annual Average</b>	<b>2,730</b>	<b>4,065</b>	

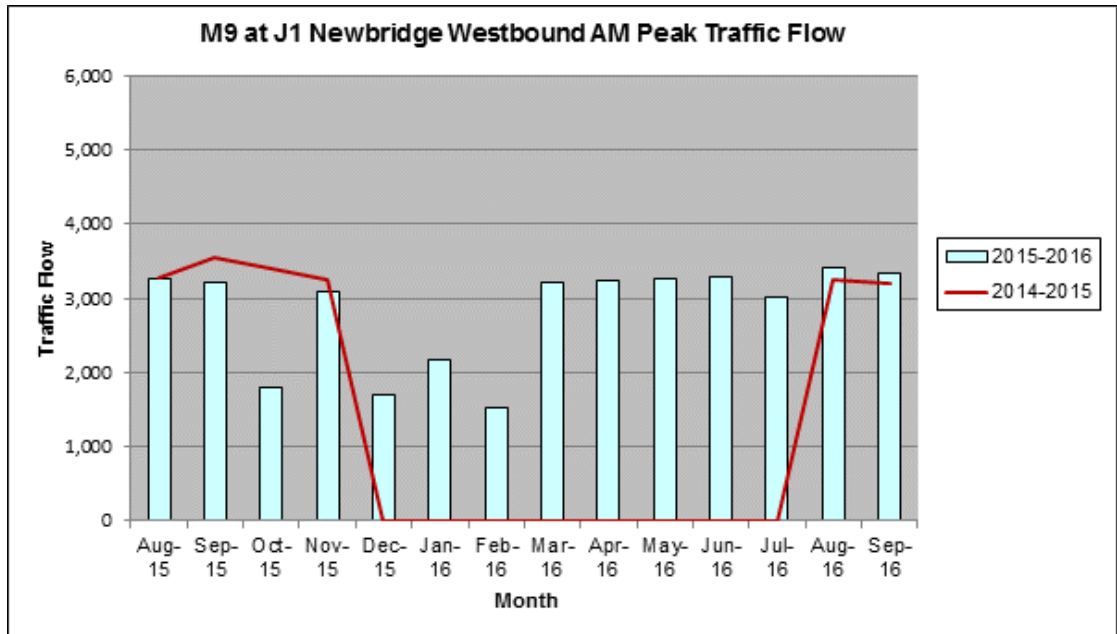


Figure 3-121 Monthly AM Peak Flows on the M9 at J1 Newbridge Westbound

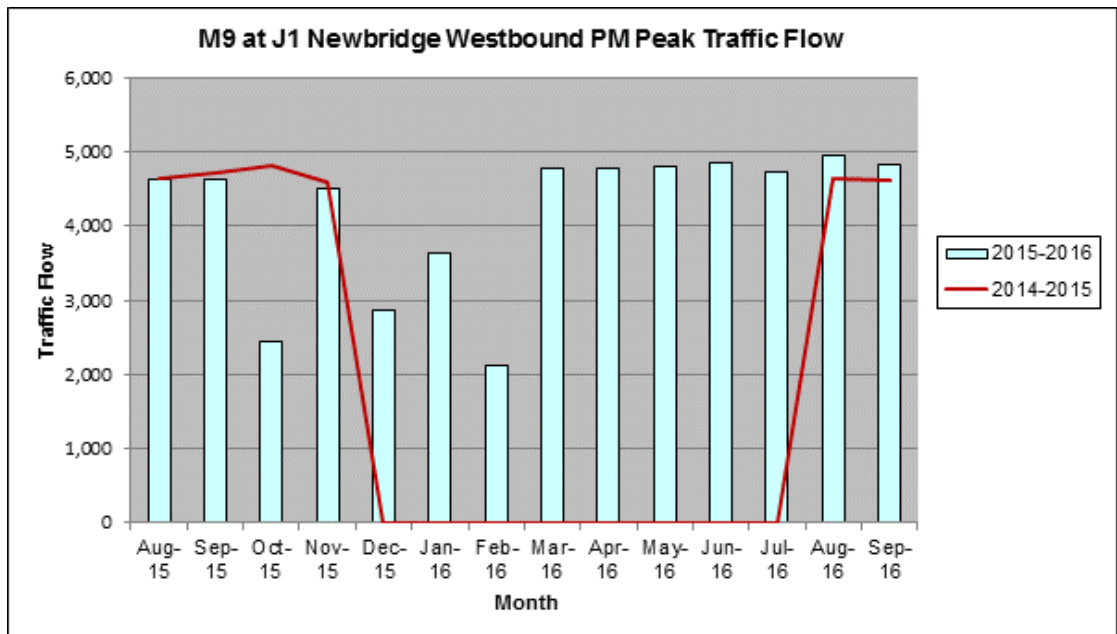


Figure 3-122 Monthly PM Peak Flows on the M9 at J1 Newbridge Westbound

### 3.28.3 Monthly Average HGV Flows

Table 3-91 Site: NTC01231 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	WB
NTC01231	M9 at J1 Newbridge Westbound	Aug-11	No Data
		Aug-15	1,484
		Sep-15	1,505
		Oct-15	728
		Nov-15	1,463
		Dec-15	861
		Jan-16	665
		Feb-16	554
		Mar-16	1,552
		Apr-16	1,614
		May-16	1,545
		Jun-16	1,609
		Jul-16	1,530
		Aug-16	1,646
		Sep-16	1,642
		<b>Annual Average</b>	<b>1,259</b>

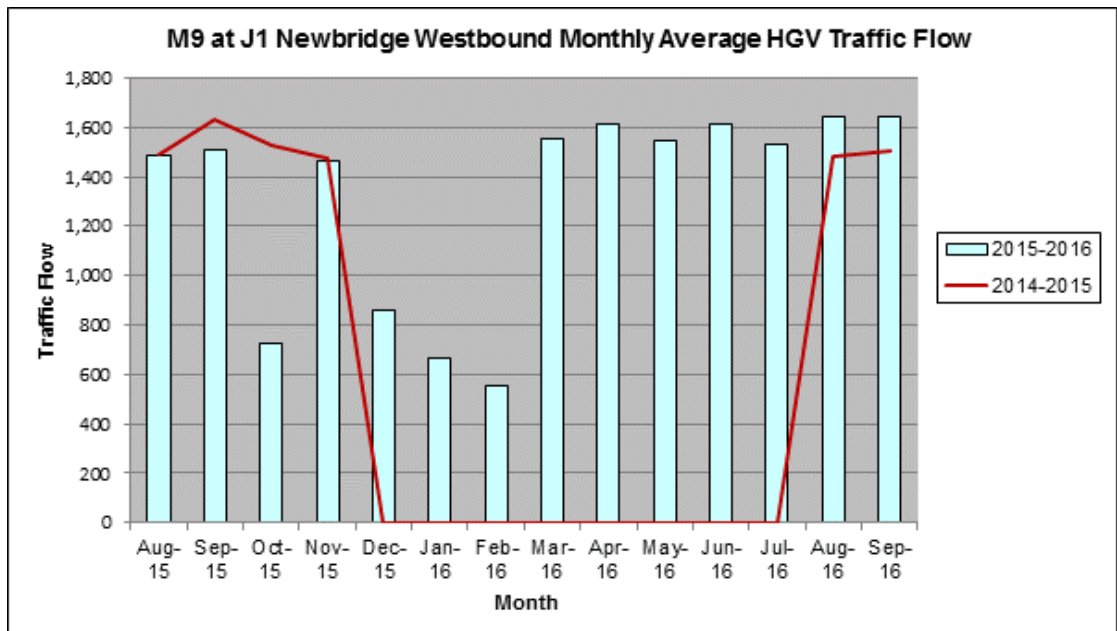


Figure 3-123 Monthly HGV Traffic Flows on the M9 at J1 Newbridge Westbound

### 3.29 Traffic Counter NTC01232 - M9 Newbridge Off-Ramp Eastbound

Summary of statistics between August 2015 and September 2016:

- Traffic flows follow a similar pattern to the previous monitoring period, showing the same HGV peak flow in June. This peak in HGV volume observed in June 2015 was also registered in June 2013 and June 2014.
- Traffic flows are indicative of typical seasonal variation; with lower flows in November 2015 to February 2016 and higher flows in the summer months.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.29.1 Monthly Average Traffic Flows

Table 3-92 Site: NTC01232 Annual Traffic Flows - August 2015 to September 2016

Counter	Location	Date	EB
NTC01232	M9 Newbridge Off-Ramp Eastbound	Aug-11	No Data
		Aug-15	13,526
		Sep-15	13,734
		Oct-15	12,826
		Nov-15	12,362
		Dec-15	11,239
		Jan-16	11,055
		Feb-16	12,118
		Mar-16	13,062
		Apr-16	13,233
		May-16	13,712
		Jun-16	14,293
		Jul-16	14,005
		Aug-16	14,624
		Sep-16	14,410
	<b>Annual Average</b>	<b>12,930</b>	

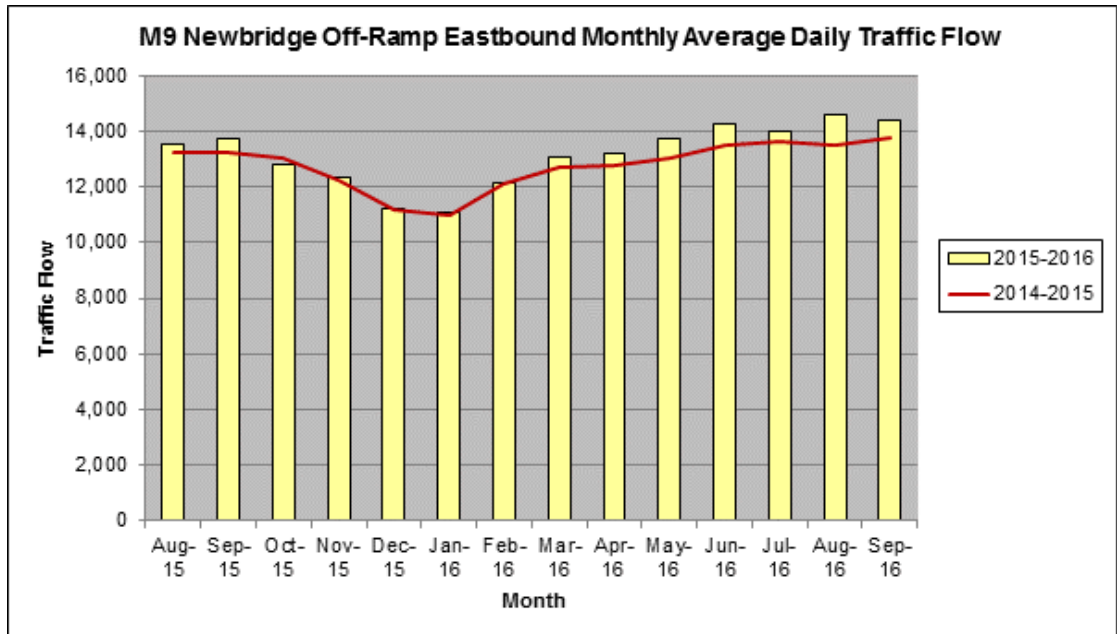


Figure 3-124 Monthly AADTs on the M9 Newbridge Off-Ramp Eastbound

### 3.29.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-93 Site: NTC01232 Monthly Eastbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01232	M9 Newbridge Off-Ramp Eastbound	Aug-11	No Data	No Data
		Aug-15	3,158	2,359
		Sep-15	3,387	2,390
		Oct-15	3,081	2,234
		Nov-15	3,105	2,182
		Dec-15	2,492	1,830
		Jan-16	2,881	1,870
		Feb-16	3,005	2,103
		Mar-16	3,425	2,231
		Apr-16	3,281	2,243
		May-16	3,312	2,349
		Jun-16	3,451	2,351
		Jul-16	3,120	2,290
		Aug-16	3,385	2,573
		Sep-16	3,330	2,495
	<b>Annual Average</b>	<b>3,142</b>	<b>2,203</b>	

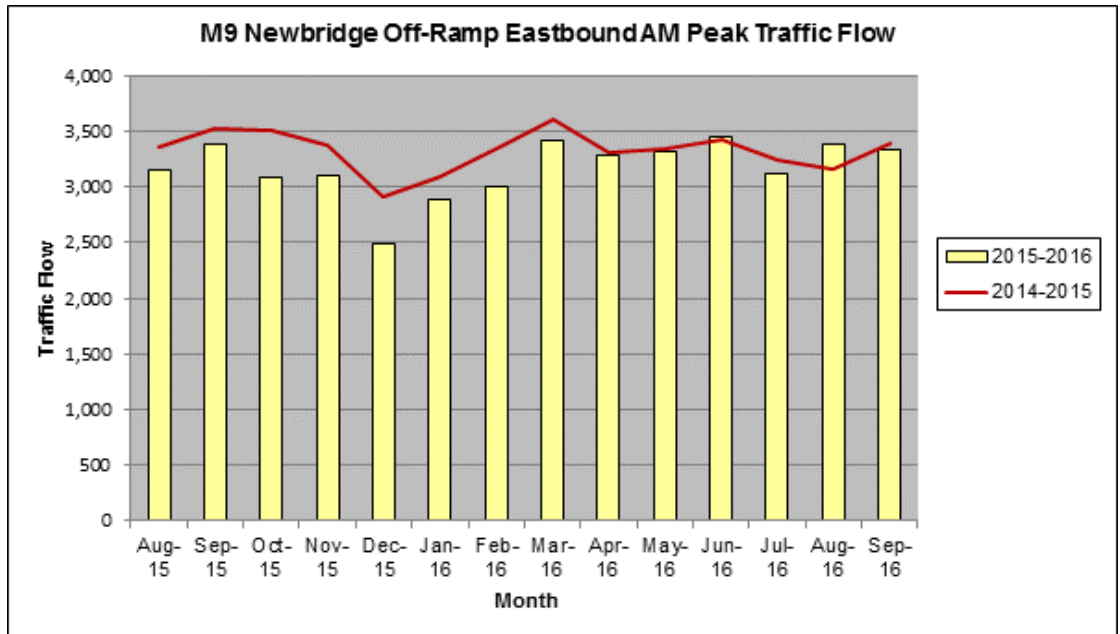


Figure 3-125 Monthly AM Peak Flows on the M9 Newbridge Off-Ramp Eastbound

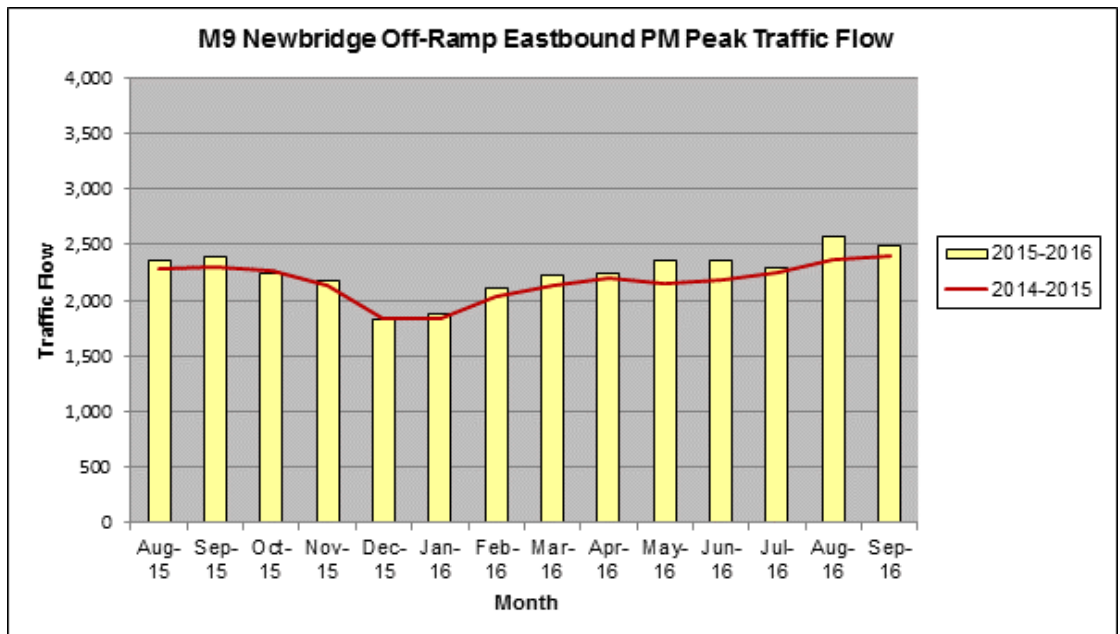


Figure 3-126 Monthly PM Peak Flows on the M9 Newbridge Off-Ramp Eastbound

### 3.29.3 Monthly Average HGV Flows

Table 3-94 Site: NTC01232 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	EB
NTC01232	M9 Newbridge Off-Ramp Eastbound	Aug-11	No Data
		Aug-15	448
		Sep-15	477
		Oct-15	444
		Nov-15	426
		Dec-15	444
		Jan-16	349
		Feb-16	418
		Mar-16	435
		Apr-16	445
		May-16	440
		Jun-16	536
		Jul-16	466
		Aug-16	486
		Sep-16	496
		<b>Annual Average</b>	<b>444</b>

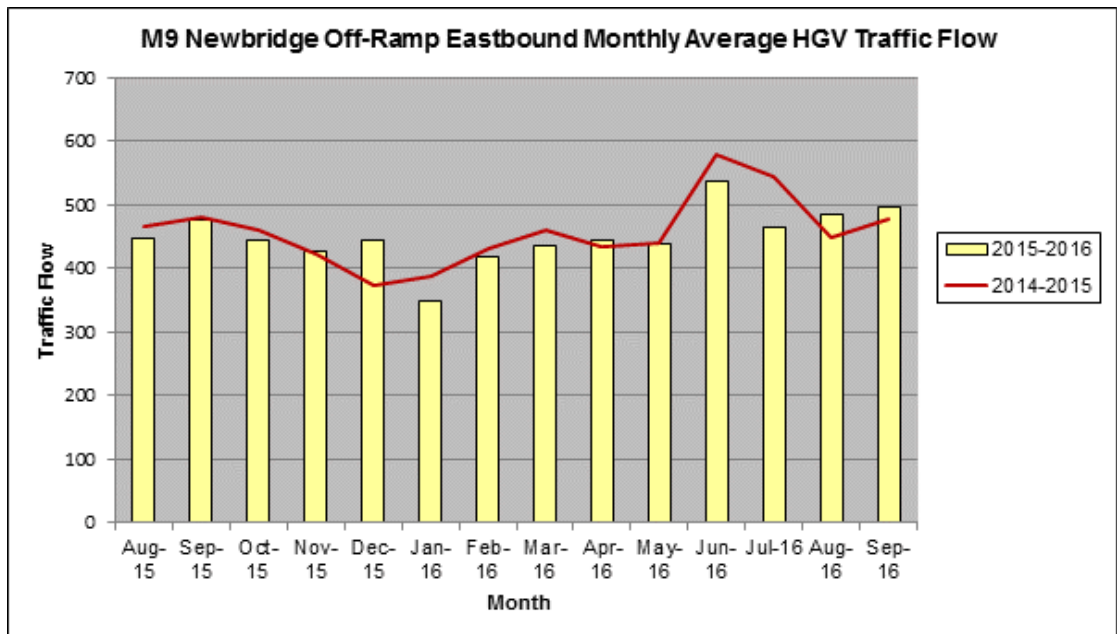


Figure 3-127 Monthly HGV Traffic Flows on the M9 Newbridge Off-Ramp Eastbound



### 3.30 Traffic Counter NTC01261 - M9 West of J1a Eastbound

Summary of statistics between August 2015 and September 2016:

- The FRB closure caused an increase in traffic as this counter is on the main diversion route; the increase of HGVs remained until mid-February 2016 as restrictions on HGVs remained in place on the FRB.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.30.1 Monthly Average Traffic Flows

*Table 3-95 Site: NTC01261 Annual Traffic Flows - August 2015 to September 2016*

Counter	Location	Date	EB
NTC01261	M9 West of J1a Eastbound	Aug-11	No Data
		Aug-15	15,499
		Sep-15	15,663
		Oct-15	15,302
		Nov-15	14,826
		Dec-15	18,414
		Jan-16	13,468
		Feb-16	14,989
		Mar-16	15,002
		Apr-16	15,283
		May-16	15,663
		Jun-16	16,290
		Jul-16	15,771
		Aug-16	16,948
Sep-16	16,319		
	<b>Annual Average</b>	<b>15,514</b>	

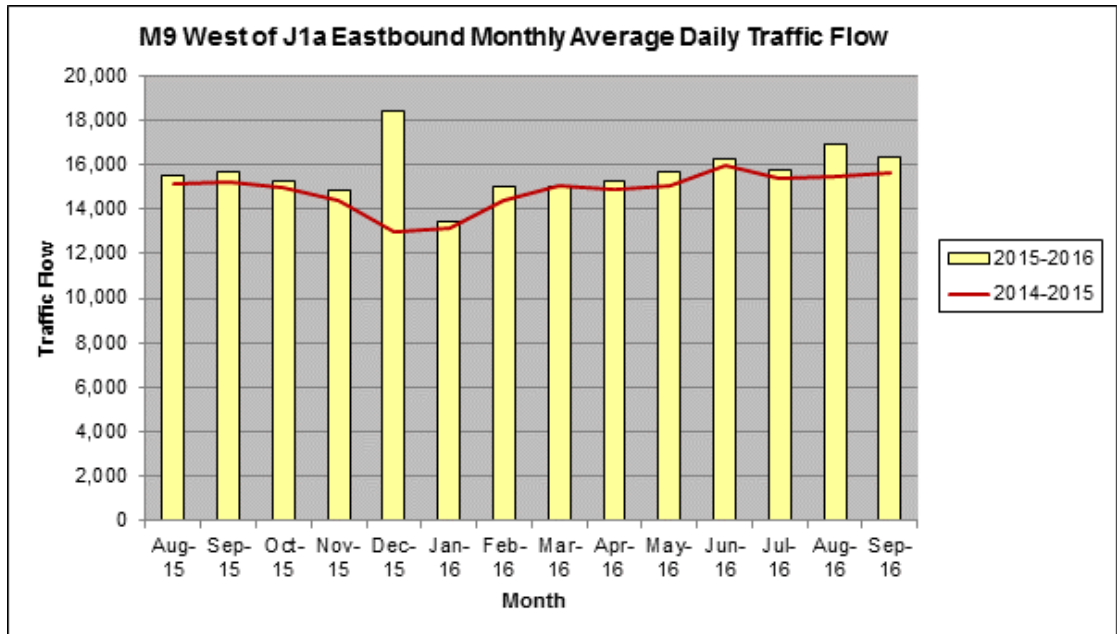


Figure 3-128 Monthly AADTs on the M9 West of J1a Eastbound

### 3.30.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-96 Site: NTC01261 Monthly Eastbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01261	M9 West of J1a Eastbound	Aug-11	No Data	No Data
		Aug-15	4,038	2,673
		Sep-15	4,412	2,627
		Oct-15	4,236	2,562
		Nov-15	4,325	2,342
		Dec-15	4,086	3,014
		Jan-16	3,799	2,162
		Feb-16	4,214	2,460
		Mar-16	4,113	2,503
		Apr-16	4,120	2,541
		May-16	4,157	2,649
		Jun-16	4,452	2,603
		Jul-16	3,887	2,626
		Aug-16	4,349	2,900
		Sep-16	4,443	2,722
	<b>Annual Average</b>	<b>4,153</b>	<b>2,564</b>	

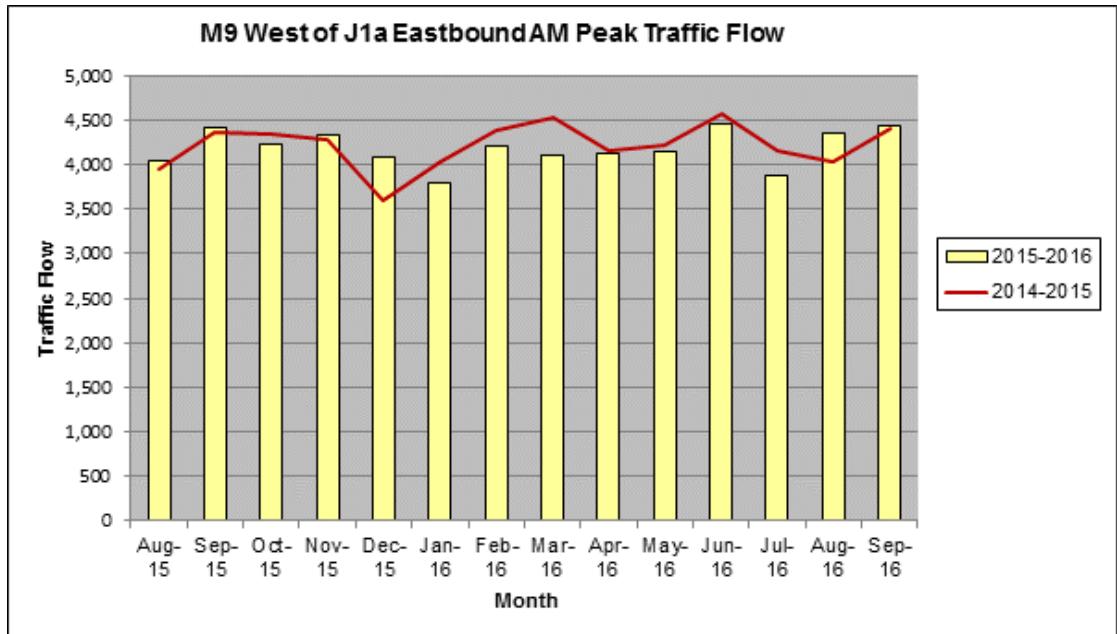


Figure 3-129 Monthly AM Peak Flows on the M9 West of J1a Eastbound

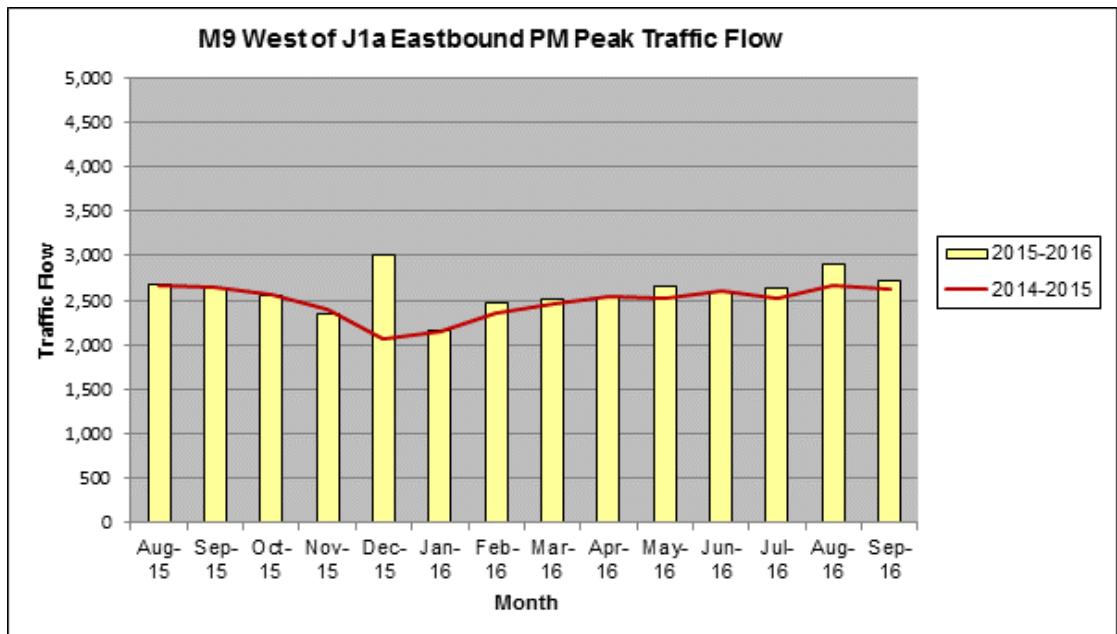


Figure 3-130 Monthly PM Peak Flows on the M9 West of J1a Eastbound

### 3.30.3 Monthly Average HGV Flows

Table 3-97 Site: NTC01261 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	EB
NTC01261	M9 West of J1a Eastbound	Aug-11	No Data
		Aug-15	776
		Sep-15	831
		Oct-15	810
		Nov-15	793
		Dec-15	1,277
		Jan-16	1,014
		Feb-16	1,080
		Mar-16	825
		Apr-16	812
		May-16	813
		Jun-16	875
		Jul-16	830
		Aug-16	886
		Sep-16	880
		<b>Annual Average</b>	<b>895</b>

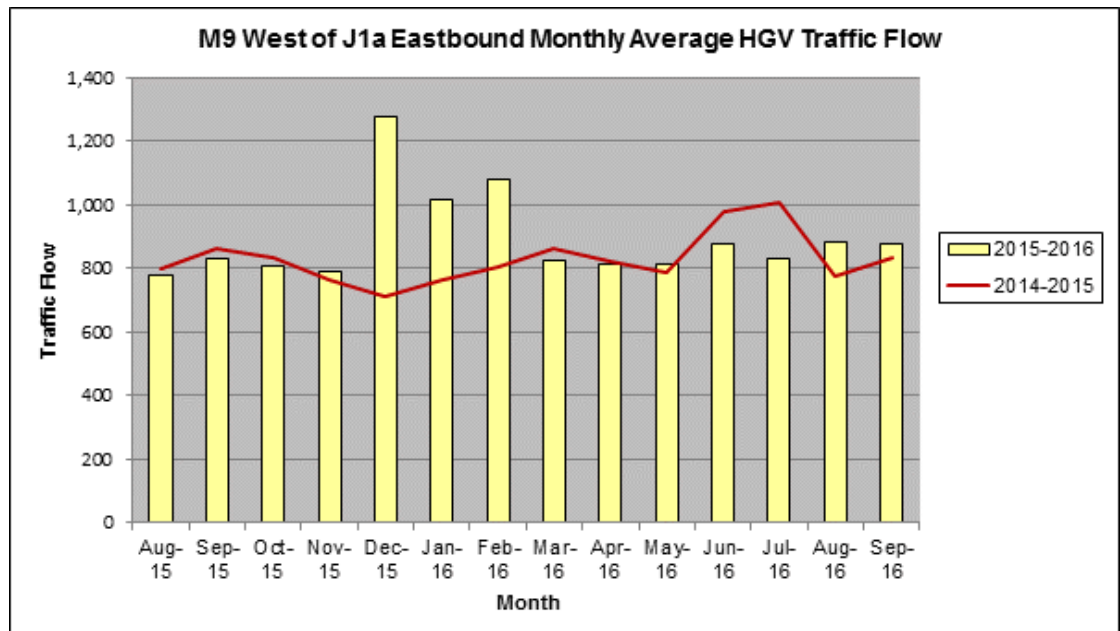


Figure 3-131 Monthly HGV Traffic Flows on the M9 West of J1a Eastbound

### 3.31 Traffic Counter NTC01270 - M9 Spur at J1a Northbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.31.1 Monthly Average Traffic Flows

*Table 3-98 Site: NTC01270 Annual Traffic Flows - August 2015 to September 2016*

Counter	Location	Date	NB
NTC01270	M9 Spur at J1a Northbound	Aug-11	No Data
		Aug-15	19,835
		Sep-15	19,686
		Oct-15	18,826
		Nov-15	18,065
		Dec-15	5,746
		Jan-16	14,150
		Feb-16	16,587
		Mar-16	18,423
		Apr-16	18,816
		May-16	19,173
		Jun-16	19,376
		Jul-16	19,342
		Aug-16	19,910
		Sep-16	19,209
	<b>Annual Average</b>	<b>17,335</b>	

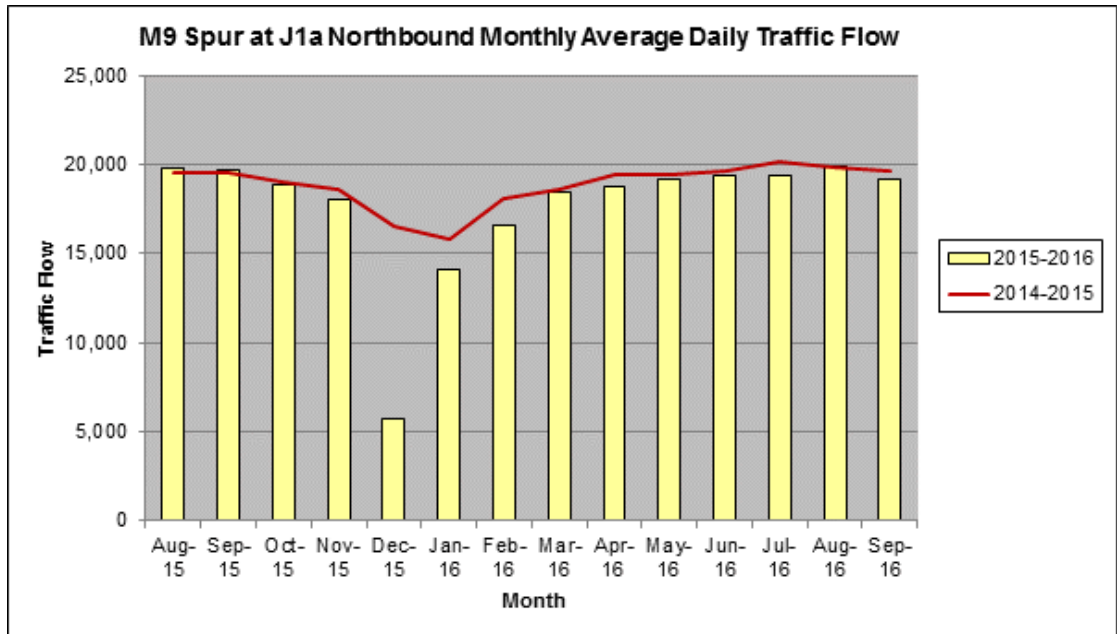


Figure 3-132 Monthly AADTs on the M9 Spur at J1a Northbound

### 3.31.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-99 Site: NTC01270 Monthly Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01270	M9 Spur at J1a Northbound	Aug-11	No Data	No Data
		Aug-15	3,179	4,269
		Sep-15	3,301	4,219
		Oct-15	3,097	4,032
		Nov-15	2,928	4,005
		Dec-15	714	1,191
		Jan-16	2,093	3,577
		Feb-16	2,578	3,990
		Mar-16	3,012	4,199
		Apr-16	2,956	4,191
		May-16	3,009	4,203
		Jun-16	3,065	4,191
		Jul-16	2,883	4,150
		Aug-16	3,205	4,132
		Sep-16	3,211	4,045
	<b>Annual Average</b>	<b>2,735</b>	<b>3,851</b>	

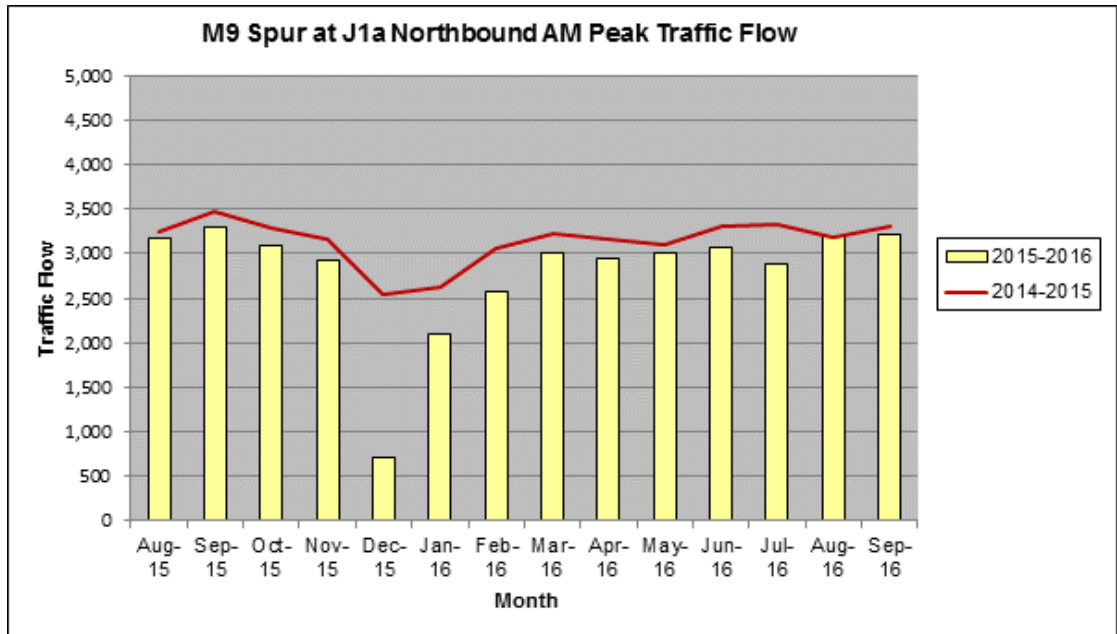


Figure 3-133 Monthly AM Peak Flows on the M9 Spur at J1a Northbound

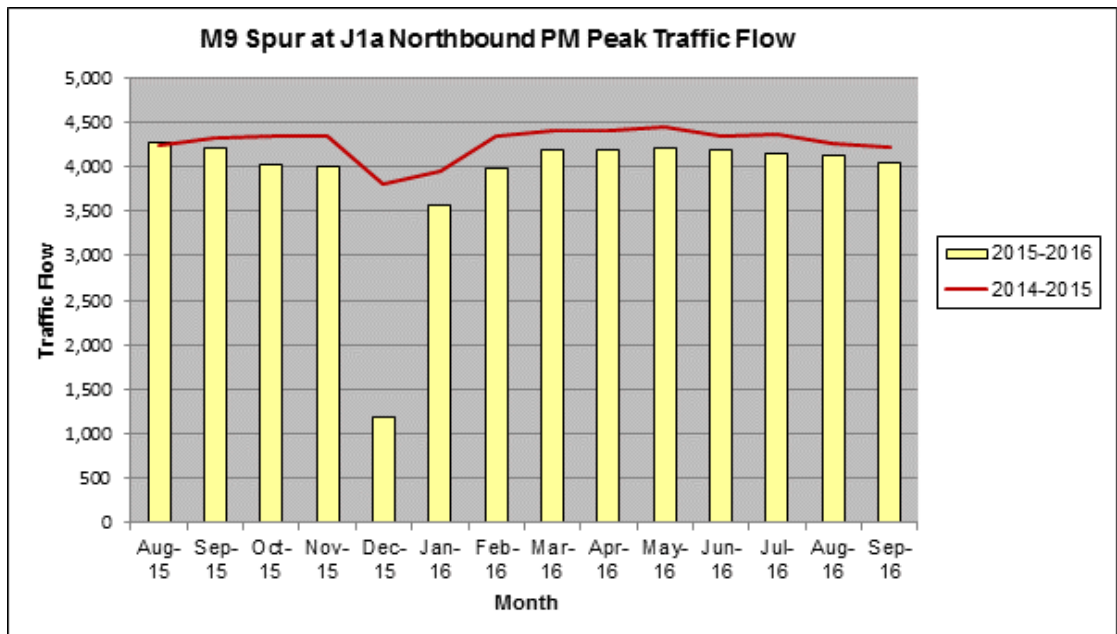


Figure 3-134 Monthly PM Peak Flows on the M9 Spur at J1a Northbound

### 3.31.3 Monthly Average HGV Flows

Table 3-100 Site: NTC01270 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	NB
NTC01270	M9 Spur at J1a Northbound	Aug-11	No Data
		Aug-15	1,382
		Sep-15	1,502
		Oct-15	1,424
		Nov-15	1,361
		Dec-15	174
		Jan-16	148
		Feb-16	565
		Mar-16	1,426
		Apr-16	1,407
		May-16	1,397
		Jun-16	1,477
		Jul-16	1,391
		Aug-16	1,477
		Sep-16	1,542
		<b>Annual Average</b>	<b>1,138</b>

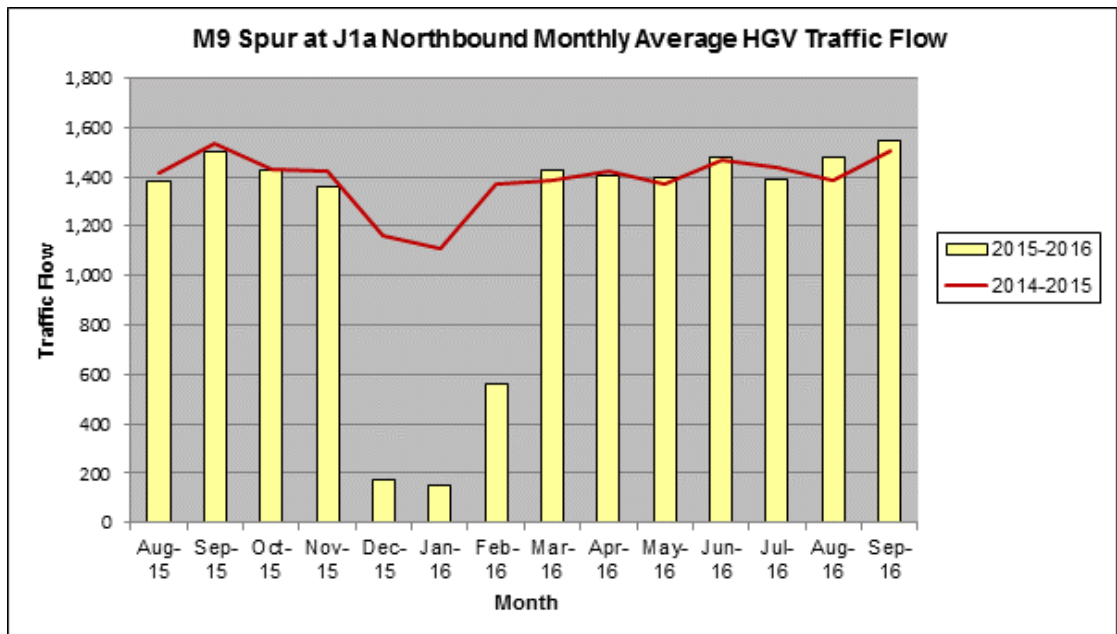


Figure 3-135 Monthly HGV Traffic Flows on the M9 Spur at J1a Northbound



### 3.32 Traffic Counter NTC01271 - M9 Spur at J1a On-Ramp from M9 East Northbound

Summary of statistics between August 2015 and September 2016:

- Traffic flows follow a similar pattern to the previous monitoring period, but are generally lower.
- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV traffic flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.32.1 Monthly Average Traffic Flows

**Table 3-101 Site: NTC01271 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
NTC01271	M9 Spur at J1a On-Ramp from M9 East Northbound	Aug-11	No Data
		Aug-15	1,410
		Sep-15	1,381
		Oct-15	1,241
		Nov-15	1,168
		Dec-15	503
		Jan-16	895
		Feb-16	1,065
		Mar-16	1,213
		Apr-16	1,210
		May-16	1,175
		Jun-16	1,191
		Jul-16	1,412
		Aug-16	1,371
		Sep-16	1,229
	<b>Annual Average</b>	<b>1,155</b>	

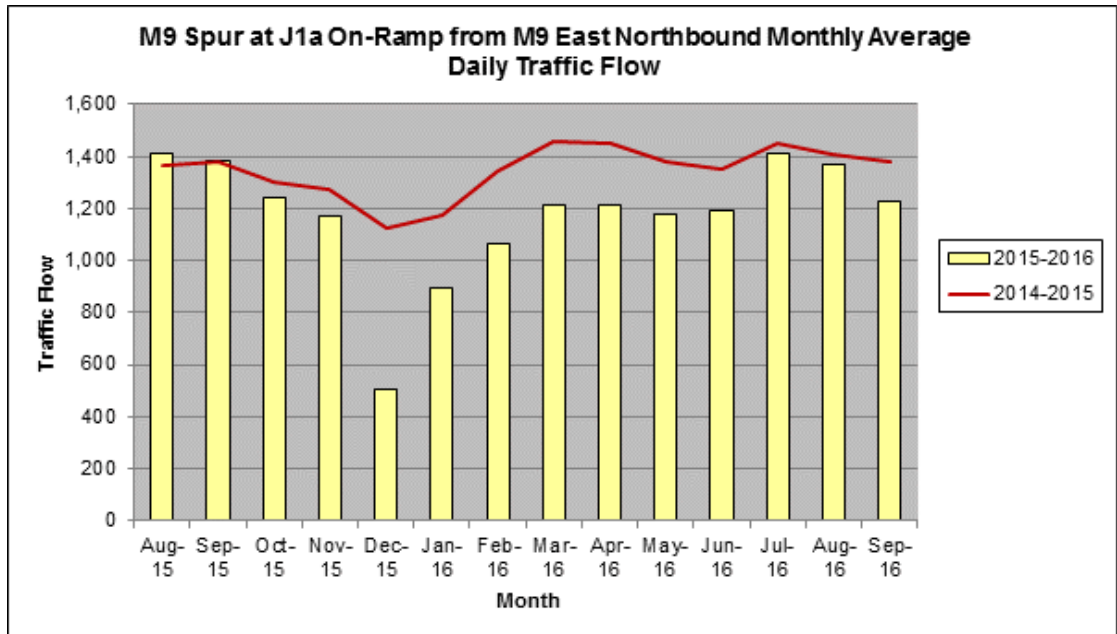


Figure 3-136 Monthly AADTs on the M9 Spur at J1a On-Ramp from M9 East Northbound

### 3.32.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-102 Site: NTC01271 Monthly Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01271	M9 Spur at J1a On-Ramp from M9 East Northbound	Aug-11	No Data	No Data
		Aug-15	371	171
		Sep-15	398	148
		Oct-15	370	122
		Nov-15	349	112
		Dec-15	104	78
		Jan-16	240	123
		Feb-16	275	139
		Mar-16	314	135
		Apr-16	314	135
		May-16	306	136
		Jun-16	326	125
		Jul-16	383	166
		Aug-16	383	135
Sep-16	350	127		
	<b>Annual Average</b>	<b>312</b>	<b>132</b>	

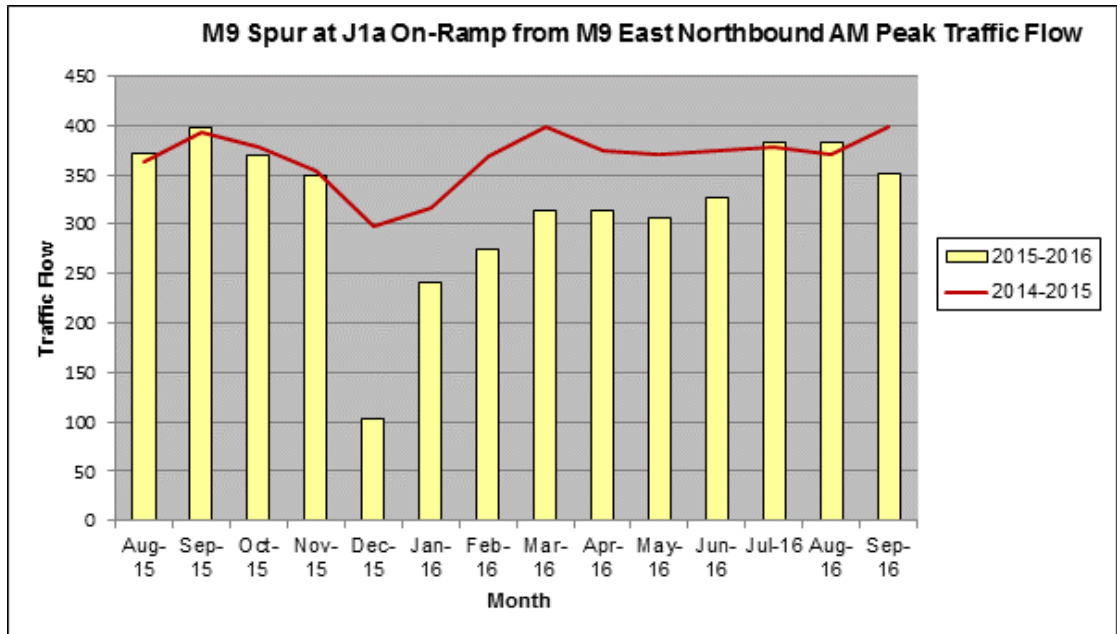


Figure 3-137 Monthly AM Peak Flows on the M9 Spur at J1a On-Ramp from M9 East Northbound

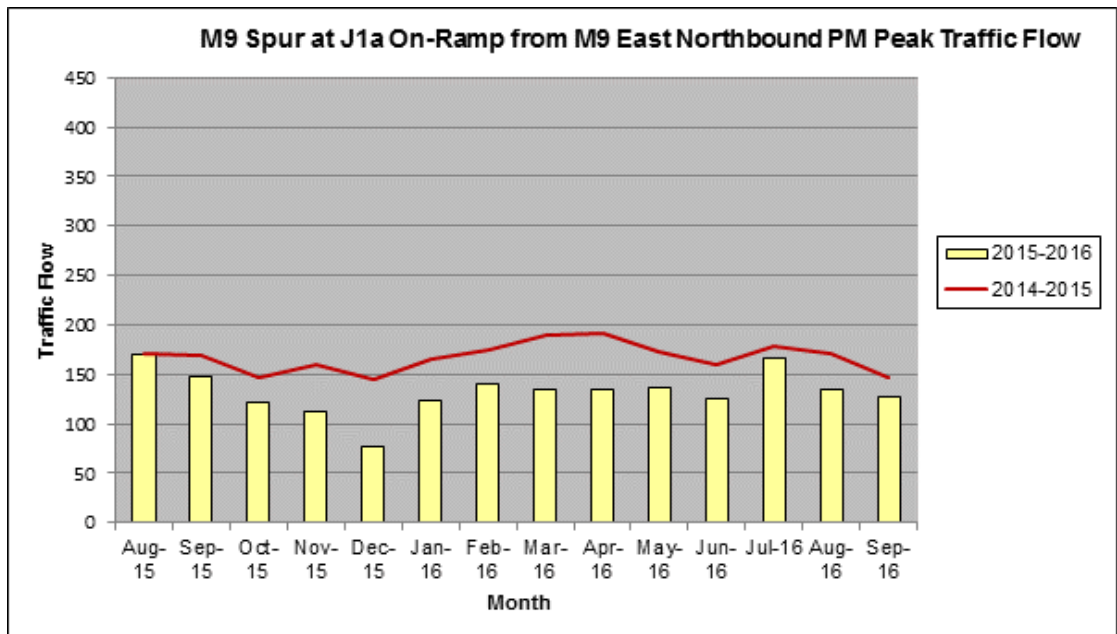


Figure 3-138 Monthly PM Peak Flows on the M9 Spur at J1a On-Ramp from M9 East Northbound

### 3.32.3 Monthly Average HGV Flows

Table 3-103 Site: NTC01271 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	NB
NTC01271	M9 Spur at J1a On-Ramp from M9 East Northbound	Aug-11	No Data
		Aug-15	170
		Sep-15	194
		Oct-15	170
		Nov-15	159
		Dec-15	25
		Jan-16	14
		Feb-16	58
		Mar-16	166
		Apr-16	155
		May-16	154
		Jun-16	146
		Jul-16	162
		Aug-16	176
		Sep-16	169
		<b>Annual Average</b>	<b>131</b>

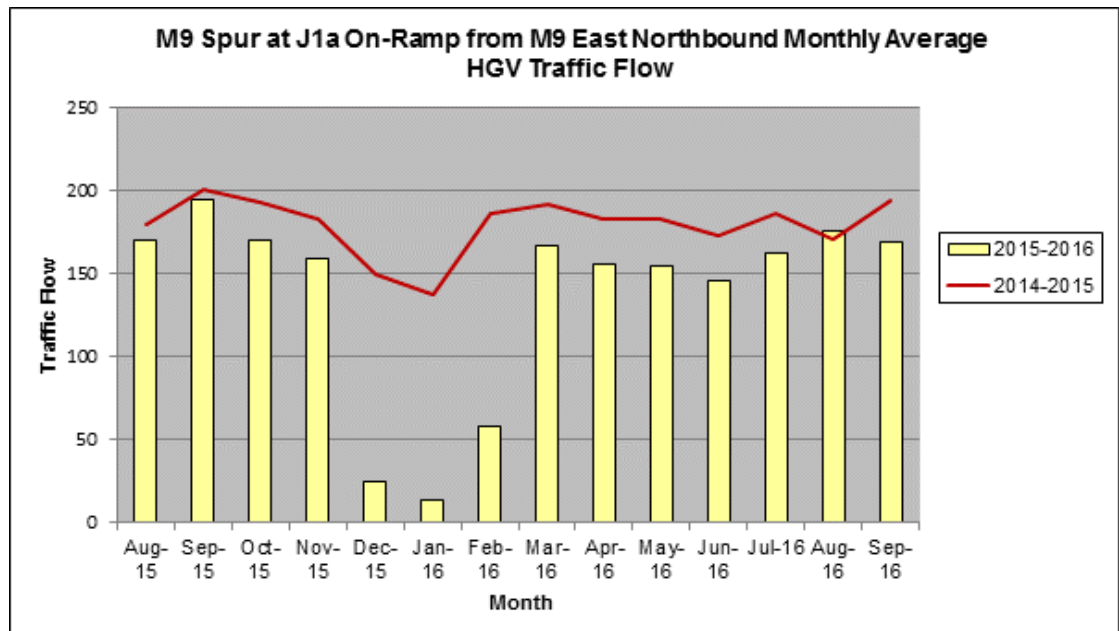


Figure 3-139 Monthly HGV Traffic Flows on the M9 Spur at J1a On-Ramp from M9 East Northbound

### 3.33 Traffic Counter NTC01272 - M9 Spur at J1a Off-Ramp to M9 East Southbound

Summary of statistics between August 2015 and September 2016:

- Traffic flows follow similar trends to the previous monitoring period, for the months with data available.
- No data is available for the baseline period, therefore comparisons cannot be made.
- No data since November 2015 due to issues with the counter, which are being addressed.

#### 3.33.1 Monthly Average Traffic Flows

**Table 3-104 Site: NTC01272 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01272	M9 Spur at J1a Off-Ramp to M9 East Southbound	Aug-11	No Data
		Aug-15	21,441
		Sep-15	21,072
		Oct-15	20,256
		Nov-15	19,115
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
	<b>Annual Average</b>	<b>20,471</b>	

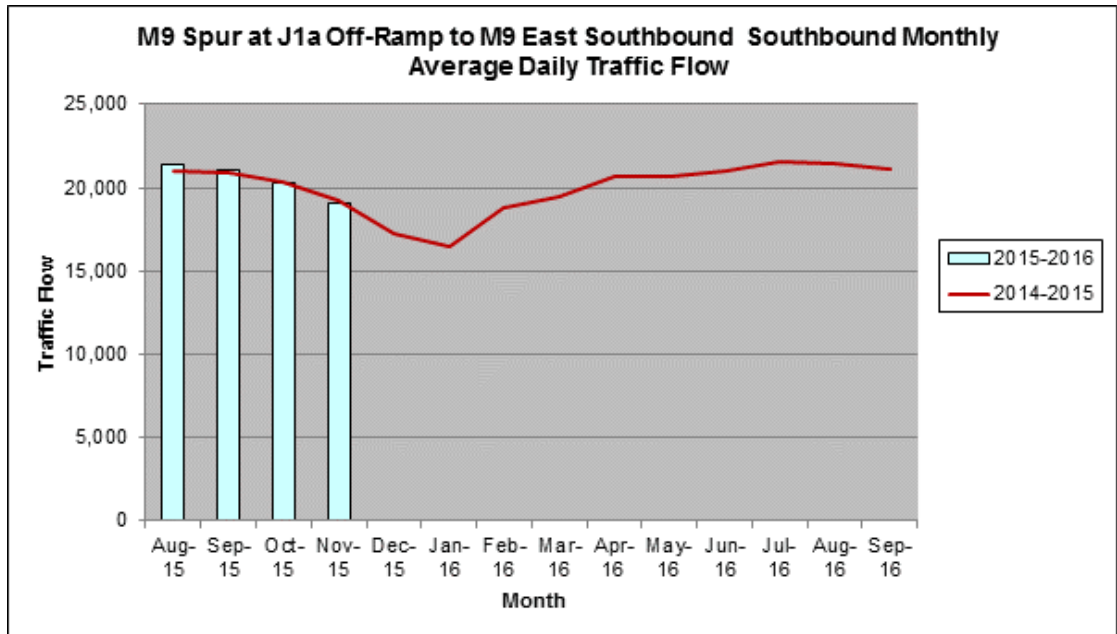


Figure 3-140 Monthly AADTs on the M9 Spur at J1a Off-Ramp to M9 East Southbound

### 3.33.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-105 Site: NTC01272 Monthly Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01272	M9 Spur at J1a Off-Ramp to M9 East Southbound	Aug-11	No Data	No Data
		Aug-15	3,867	4,158
		Sep-15	4,075	4,064
		Oct-15	3,860	3,835
		Nov-15	3,813	3,492
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>3,904</b>	<b>3,887</b>	

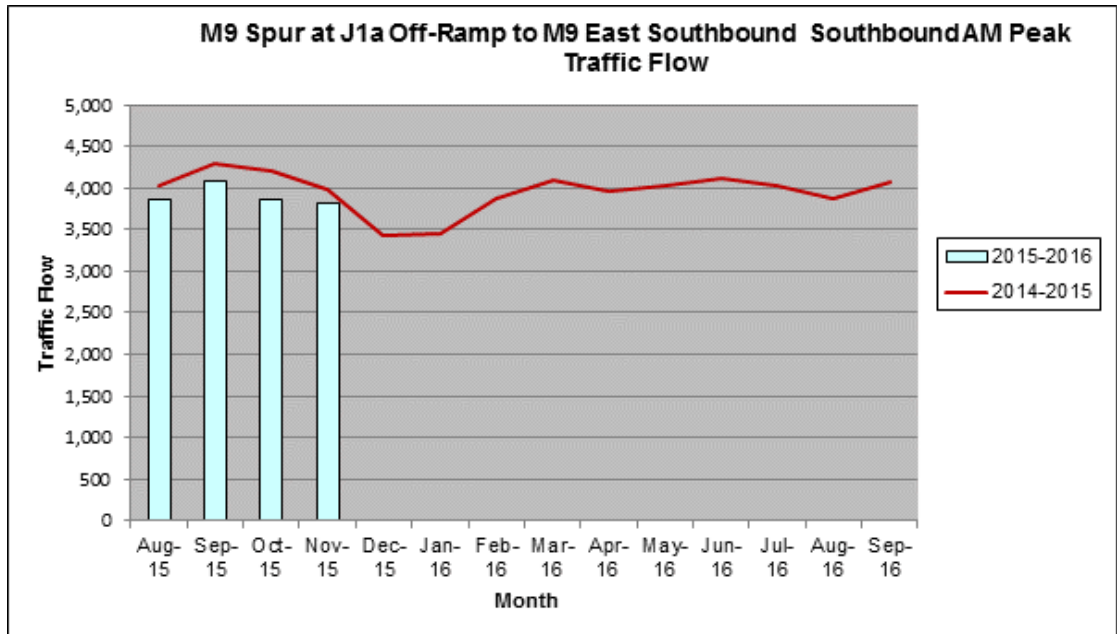


Figure 3-141 Monthly AM Peak Flows on the M9 Spur at J1a Off-Ramp to M9 East Southbound

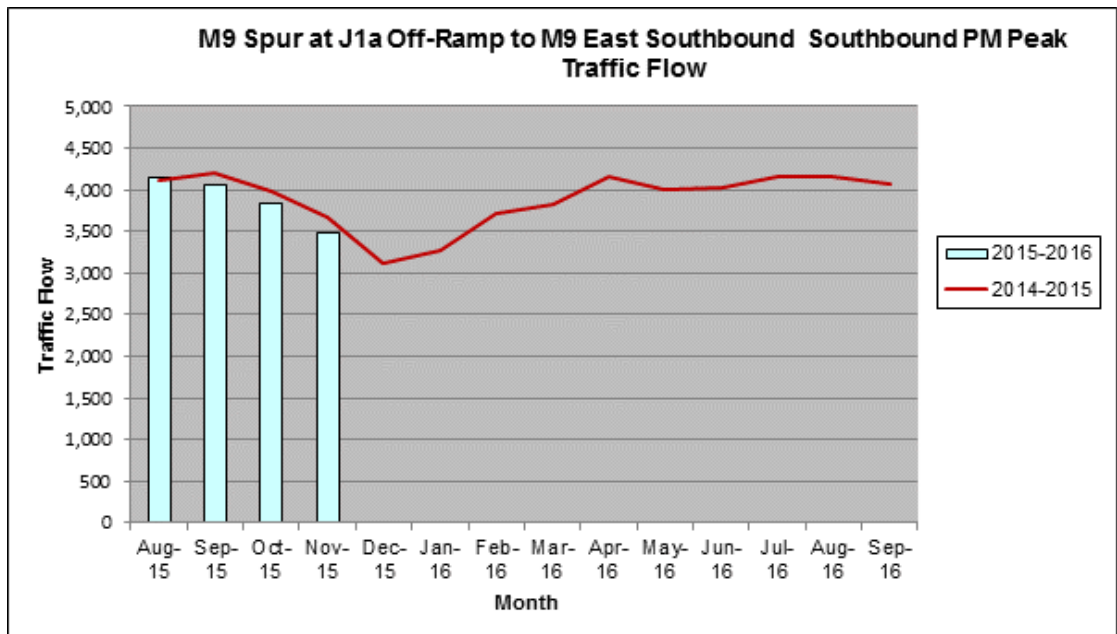


Figure 3-142 Monthly PM Peak Flows on the M9 Spur at J1a Off-Ramp to M9 East Southbound

### 3.33.3 Monthly Average HGV Flows

Table 3-106 Site: NTC01272 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	SB
NTC01272	M9 Spur at J1a Off-Ramp to M9 East Southbound	Aug-11	No Data
		Aug-15	1,424
		Sep-15	1,538
		Oct-15	1,448
		Nov-15	1,412
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	

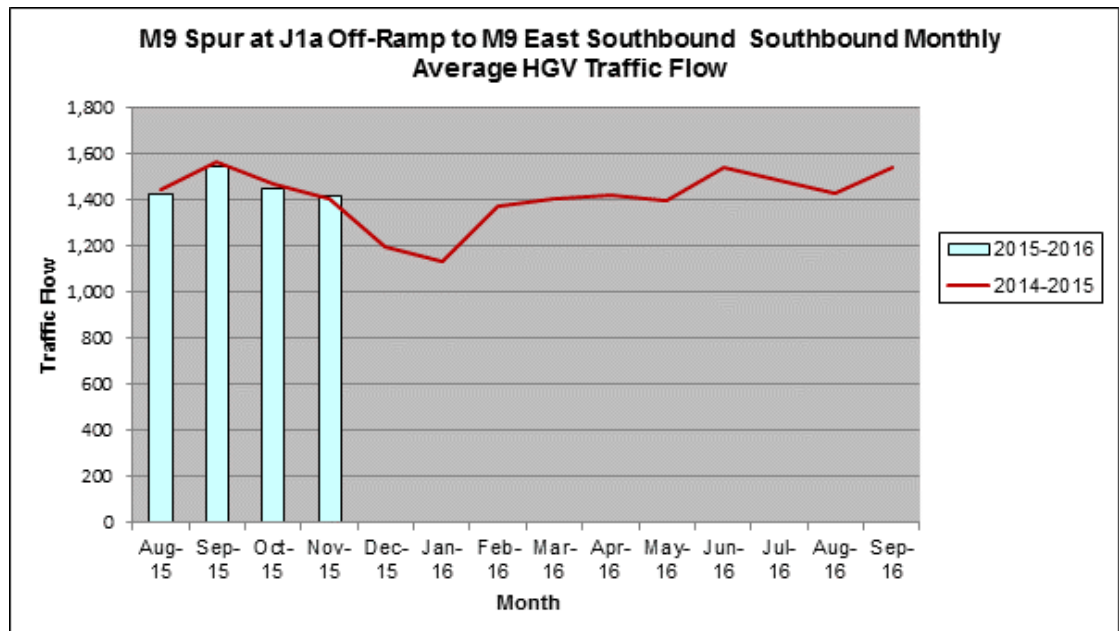


Figure 3-143 Monthly HGV Traffic Flows on the M9 Spur at J1a Off-Ramp to M9 East Southbound



### 3.34 Traffic Counter NTC01274 - M9 Spur at J1a Southbound

Summary of statistics between August 2015 and September 2016:

- Traffic flows follow similar trends to the previous monitoring period.
- No data is available for the baseline period, therefore comparisons cannot be made.
- No data since November 2015 due to counter awaiting loop re-cut.

#### 3.34.1 Monthly Average Traffic Flows

**Table 3-107 Site: NTC01274 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01274	M9 Spur at J1a Southbound	Aug-11	No Data
		Aug-15	1,726
		Sep-15	1,691
		Oct-15	1,622
		Nov-15	1,510
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
<b>Annual Average</b>	<b>1,637</b>		

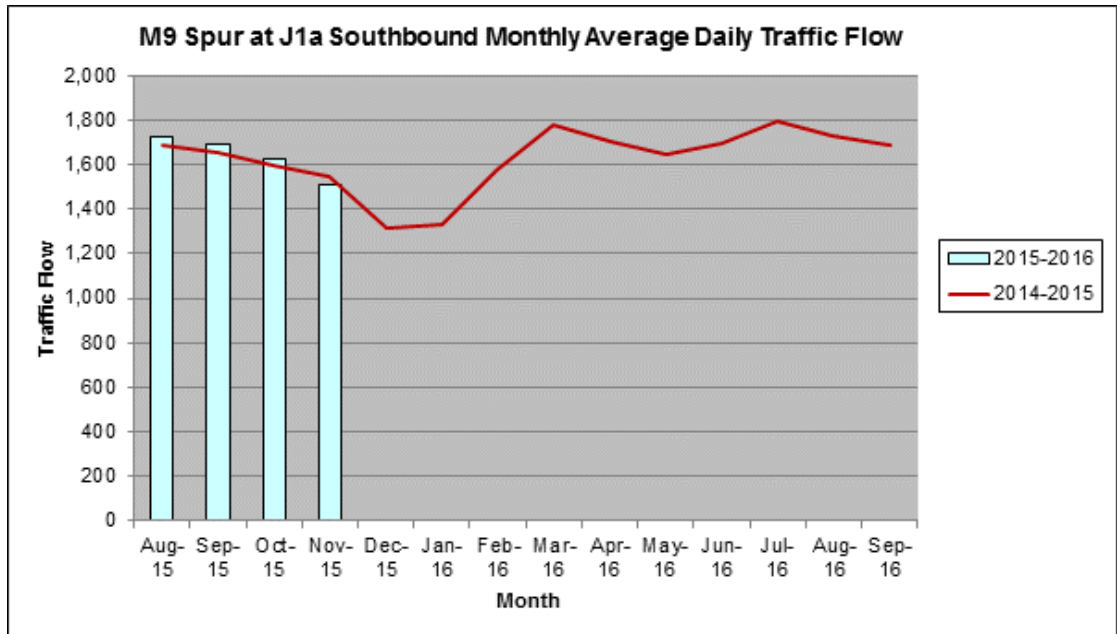


Figure 3-144 Monthly AADTs on the M9 Spur at J1a Southbound

### 3.34.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-108 Site: NTC01274 Monthly Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01274	M9 Spur at J1a Southbound	Aug-11	No Data	No Data
		Aug-15	244	445
		Sep-15	245	457
		Oct-15	239	431
		Nov-15	220	428
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>237</b>	<b>440</b>	

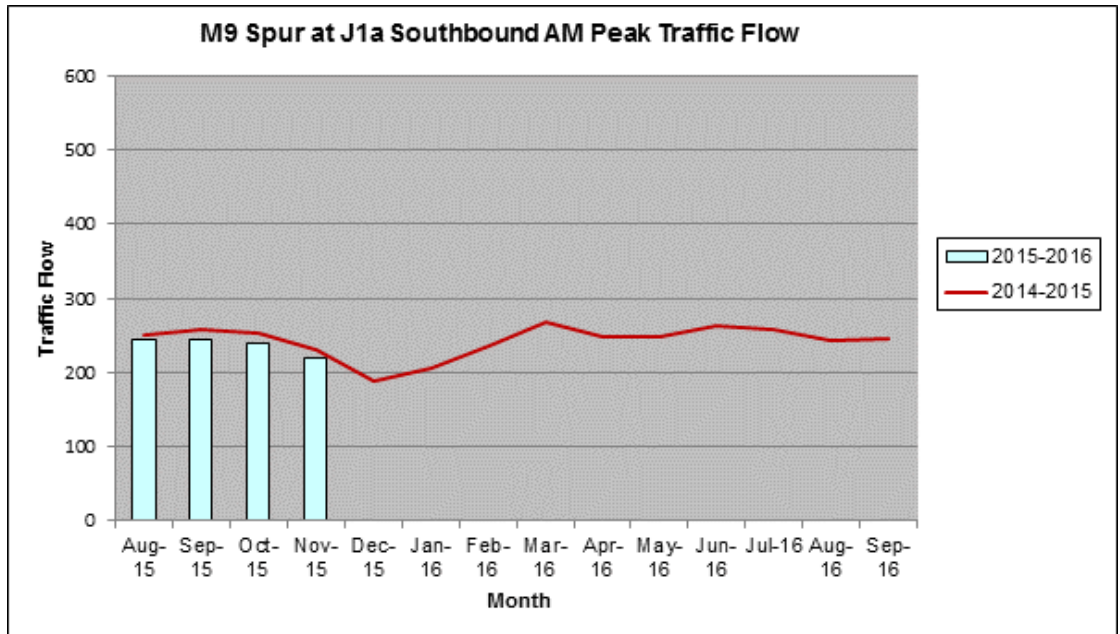


Figure 3-145 Monthly AM Peak Flows on the M9 Spur at J1a Southbound

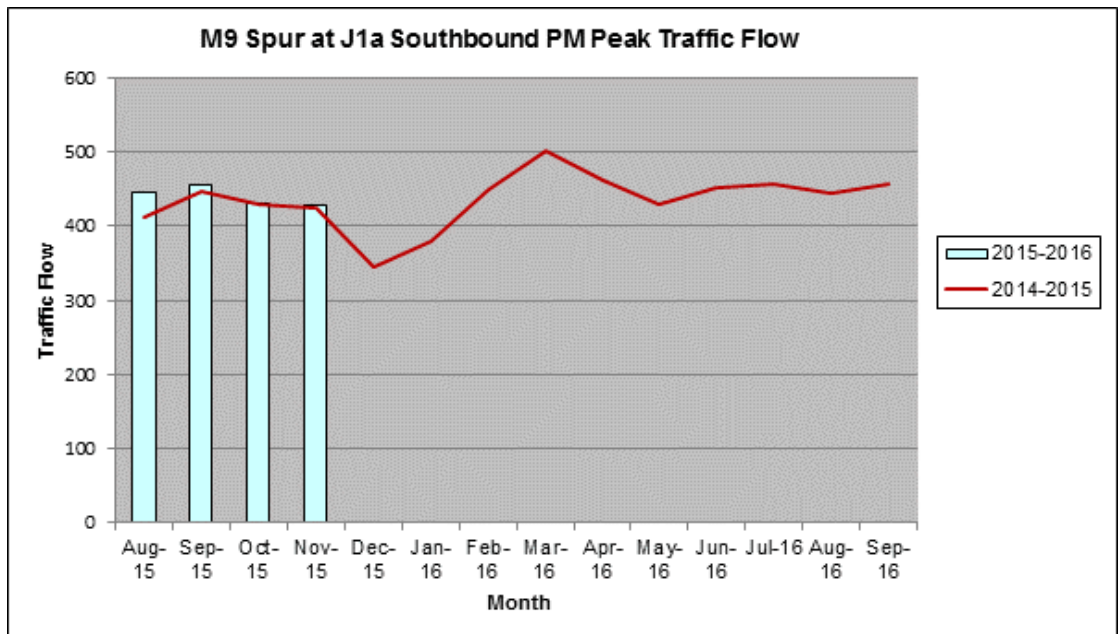
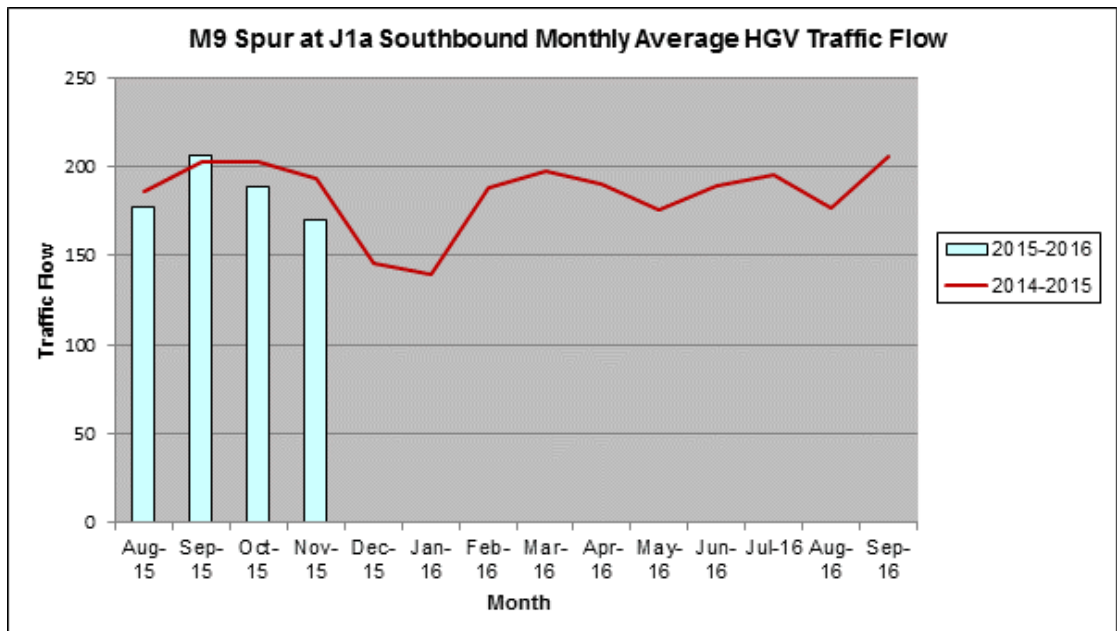


Figure 3-146 Monthly PM Peak Flows on the M9 Spur at J1a Southbound

### 3.34.3 Monthly Average HGV Flows

**Table 3-109 Site: NTC01274 Annual HGV Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01274	M9 Spur at J1a Southbound	Aug-11	No Data
		Aug-15	177
		Sep-15	206
		Oct-15	189
		Nov-15	170
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data



**Figure 3-147 Monthly HGV Traffic Flows on the M9 Spur at J1a Southbound**

### 3.35 Traffic Counter NTC01179 - M90 at J2a Halbeath Northbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016 and February 2016 due to FRB closure and HGV restrictions.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.35.1 Monthly Average Traffic Flows

**Table 3-110 Site: NTC01179 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
NTC01179	M90 at J2a Halbeath Northbound	Aug-11	No Data
		Aug-15	16,202
		Sep-15	15,827
		Oct-15	14,853
		Nov-15	14,933
		Dec-15	6,891
		Jan-16	11,912
		Feb-16	13,734
		Mar-16	15,001
		Apr-16	15,347
		May-16	15,096
		Jun-16	No Data
		Jul-16	15,649
		Aug-16	16,655
		Sep-16	15,929
	<b>Annual Average</b>	<b>14,131</b>	

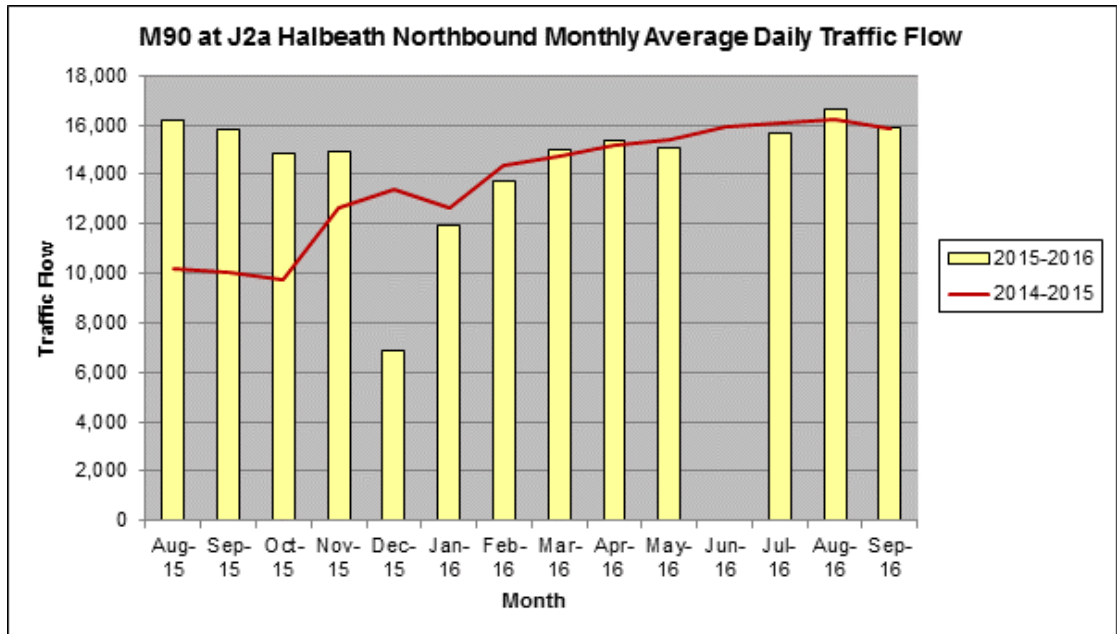


Figure 3-148 Monthly AADTs on the M90 at J2a Halbeath Northbound

### 3.35.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-111 Site: NTC01179 Monthly Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01179	M90 at J2a Halbeath Northbound	Aug-11	No Data	No Data
		Aug-15	2,582	3,602
		Sep-15	2,740	3,670
		Oct-15	2,509	3,441
		Nov-15	2,514	3,475
		Dec-15	958	1,536
		Jan-16	1,896	3,048
		Feb-16	2,277	3,383
		Mar-16	2,586	3,632
		Apr-16	2,456	3,659
		May-16	2,528	3,506
		Jun-16	No Data	No Data
		Jul-16	2,465	3,552
		Aug-16	2,721	3,713
		Sep-16	2,715	3,699
	<b>Annual Average</b>	<b>2,319</b>	<b>3,319</b>	

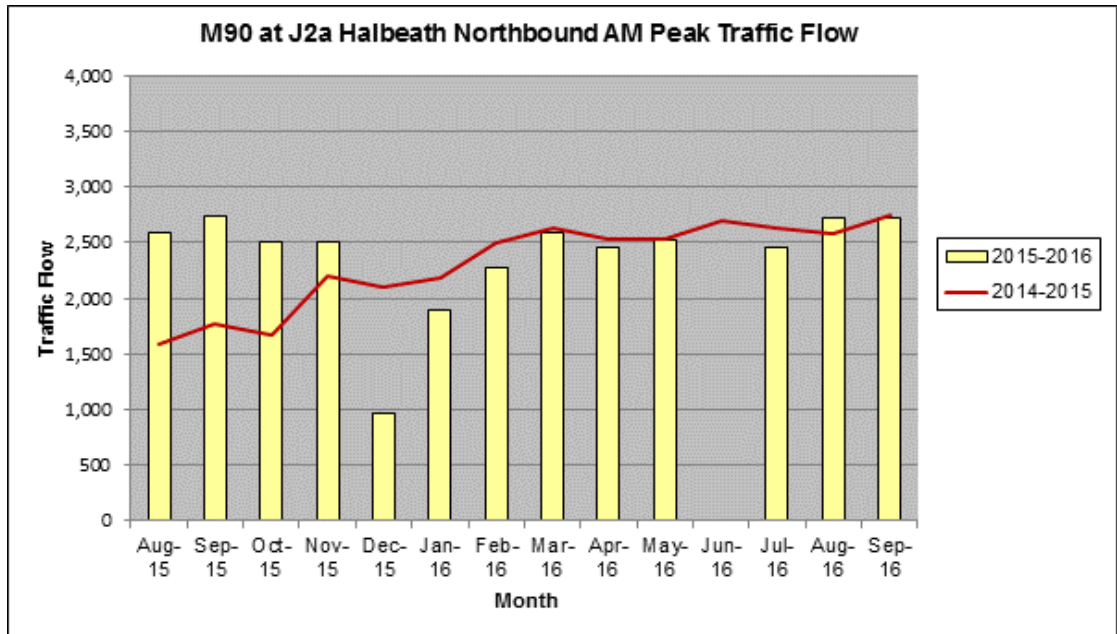


Figure 3-149 Monthly AM Peak Flows on the M90 at J2a Halbeath Northbound

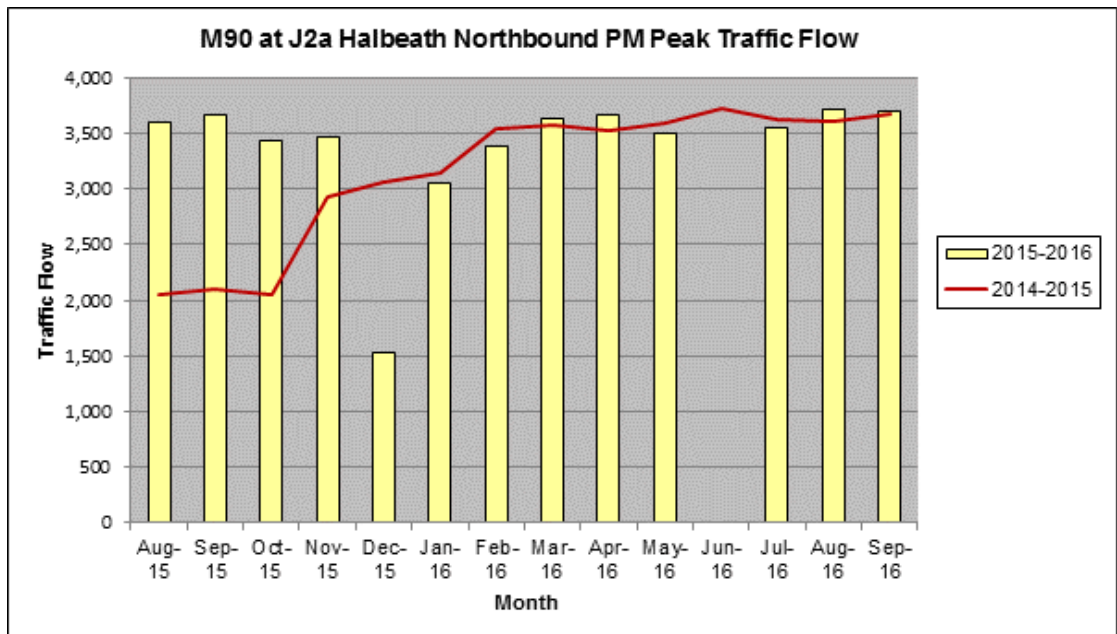


Figure 3-150 Monthly PM Peak Flows on the M90 at J2a Halbeath Northbound

### 3.35.3 Monthly Average HGV Flows

Table 3-112 Site: NTC01179 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	NB
NTC01179	M90 at J2a Halbeath Northbound	Aug-11	No Data
		Aug-15	1,407
		Sep-15	1,441
		Oct-15	1,289
		Nov-15	1,223
		Dec-15	487
		Jan-16	511
		Feb-16	775
		Mar-16	1,241
		Apr-16	1,221
		May-16	1,249
		Jun-16	No Data
		Jul-16	1,334
		Aug-16	1,429
		Sep-16	1,404
		<b>Annual Average</b>	<b>1,107</b>

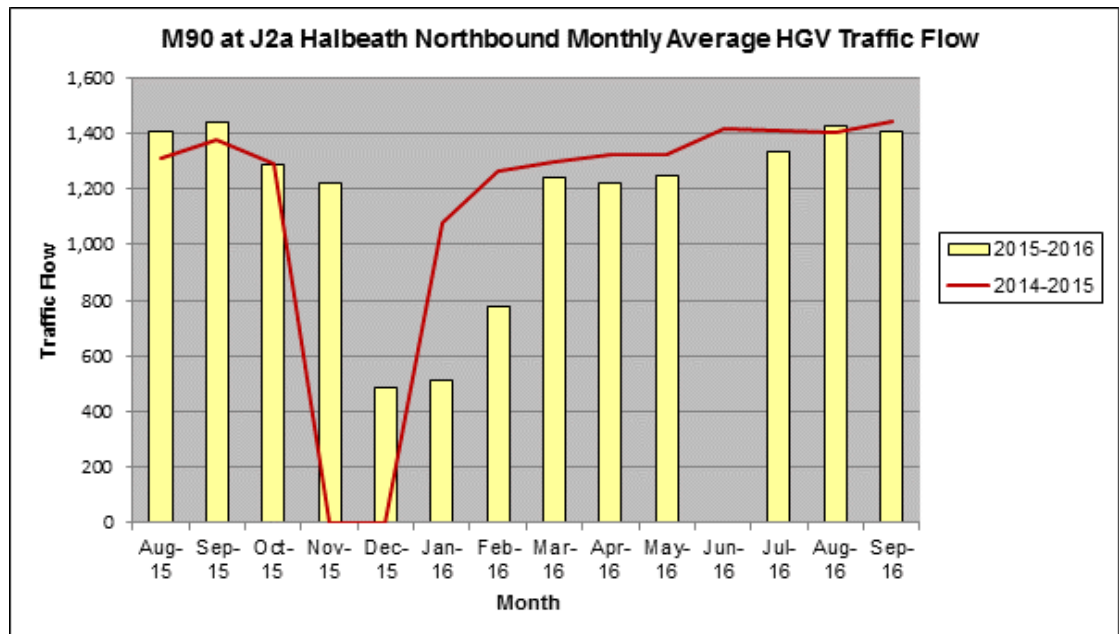


Figure 3-151 Monthly HGV Traffic Flows on the M90 at J2a Halbeath Northbound



### 3.36 Traffic Counter NTC01181 - M90 at J2a Halbeath Southbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows are consistent with the previous monitoring period, with the exceptions of December 2015, January 2016 and February 2016.
- No data is available for the baseline period, therefore comparisons cannot be made.
- No data is available for September 2016 due to the counter awaiting re-cut, due to re-surfacing works.

#### 3.36.1 Monthly Average Traffic Flows

**Table 3-113 Site: NTC01181 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01181	M90 at J2a Halbeath Southbound	Aug-11	No Data
		Aug-15	16,533
		Sep-15	16,180
		Oct-15	15,025
		Nov-15	14,492
		Dec-15	7,052
		Jan-16	12,174
		Feb-16	13,798
		Mar-16	15,084
		Apr-16	15,723
		May-16	15,509
		Jun-16	16,085
		Jul-16	16,495
		Aug-16	17,180
		Sep-16	No Data
<b>Annual Average</b>	<b>14,513</b>		

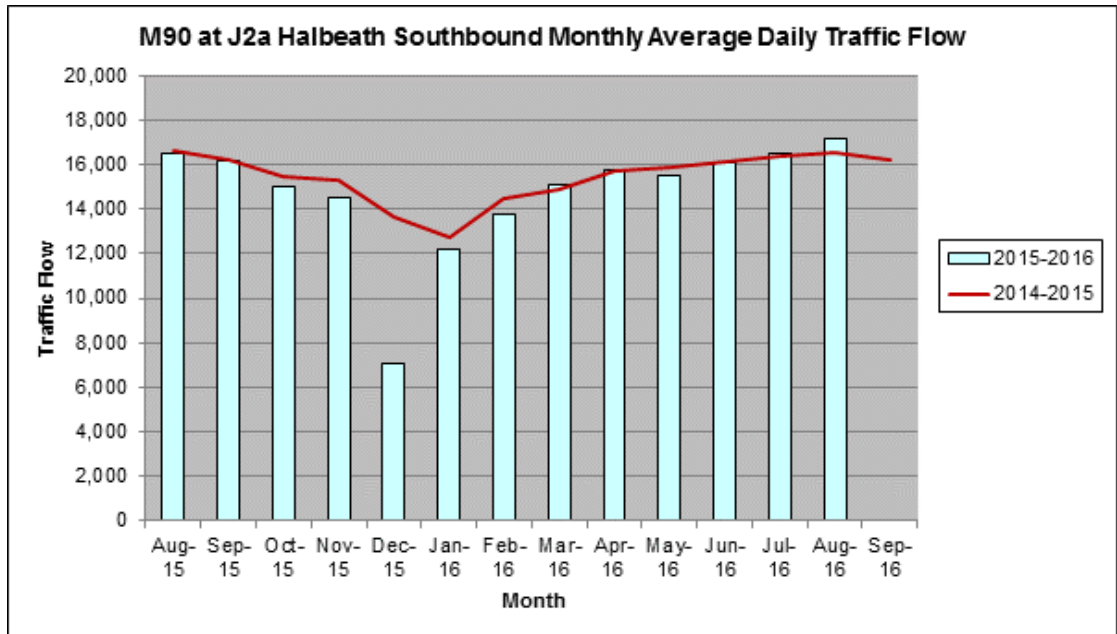


Figure 3-152 Monthly AADTs on the M90 at J2a Halbeath Southbound

### 3.36.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-114 Site: NTC01181 Monthly Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01181	M90 at J2a Halbeath Southbound	Aug-11	No Data	No Data
		Aug-15	2,576	3,510
		Sep-15	2,629	3,508
		Oct-15	2,345	3,211
		Nov-15	2,329	3,092
		Dec-15	971	1,408
		Jan-16	1,936	2,709
		Feb-16	2,239	3,042
		Mar-16	2,442	3,294
		Apr-16	2,509	3,412
		May-16	2,407	3,367
		Jun-16	2,685	3,402
		Jul-16	2,403	3,380
		Aug-16	2,717	3,528
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>2,289</b>	<b>3,111</b>	

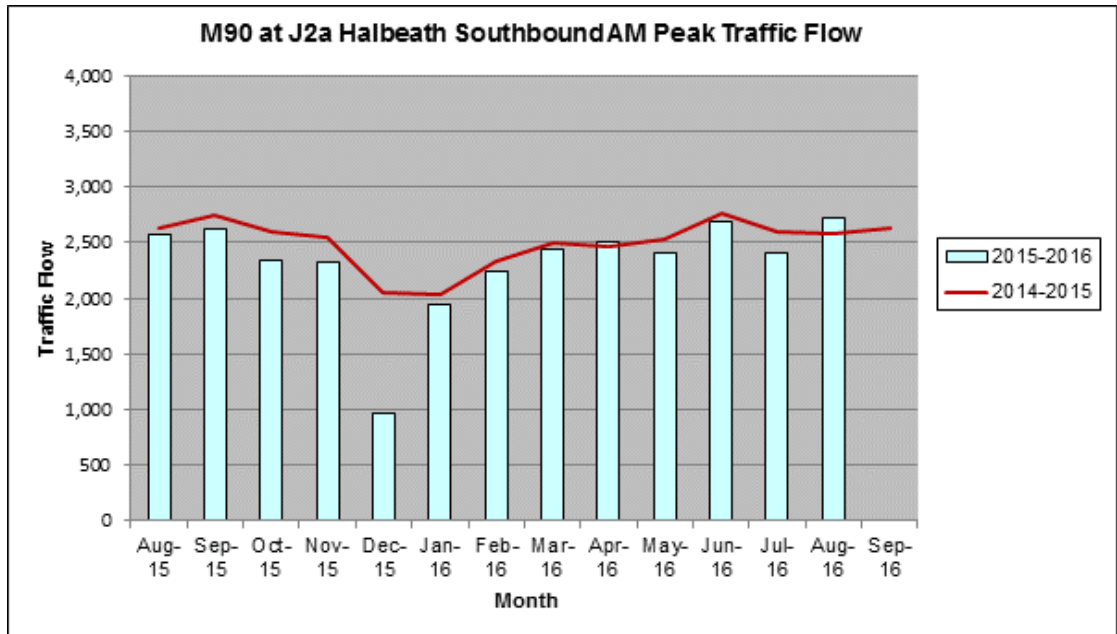


Figure 3-153 Monthly AM Peak Flows on the M90 at J2a Halbeath Southbound

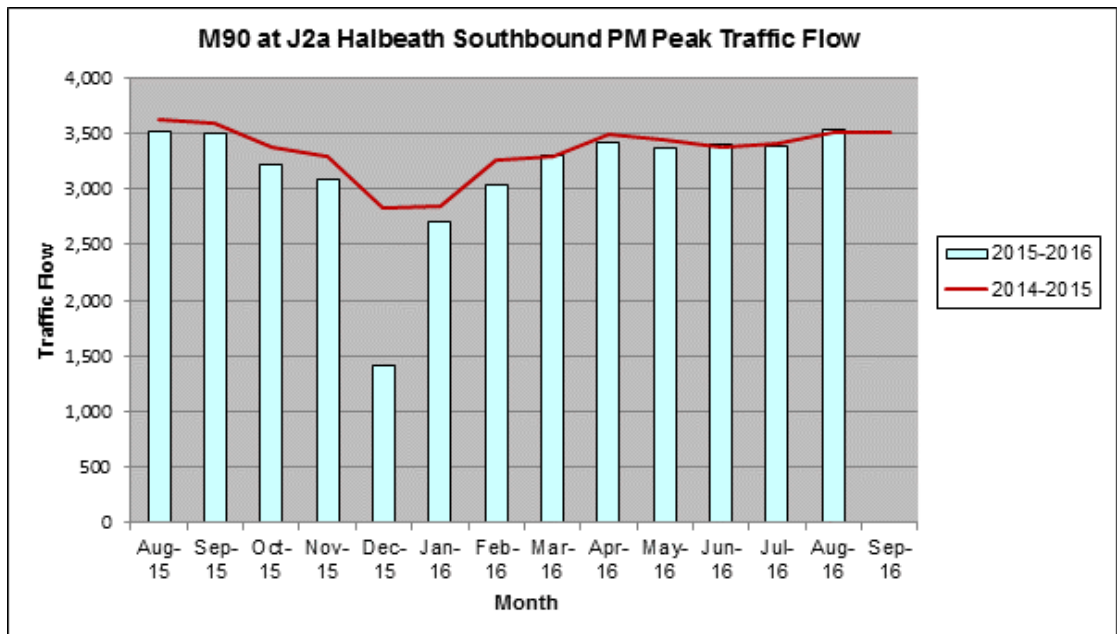


Figure 3-154 Monthly PM Peak Flows on the M90 at J2a Halbeath Southbound

### 3.36.3 Monthly Average HGV Flows

Table 3-115 Site: NTC01181 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	SB
NTC01181	M90 at J2a Halbeath Southbound	Aug-11	No Data
		Aug-15	1,364
		Sep-15	1,410
		Oct-15	1,238
		Nov-15	1,195
		Dec-15	490
		Jan-16	498
		Feb-16	769
		Mar-16	1,241
		Apr-16	1,125
		May-16	1,110
		Jun-16	1,363
		Jul-16	1,341
		Aug-16	1,660
		Sep-16	No Data
		<b>Annual Average</b>	<b>1,095</b>

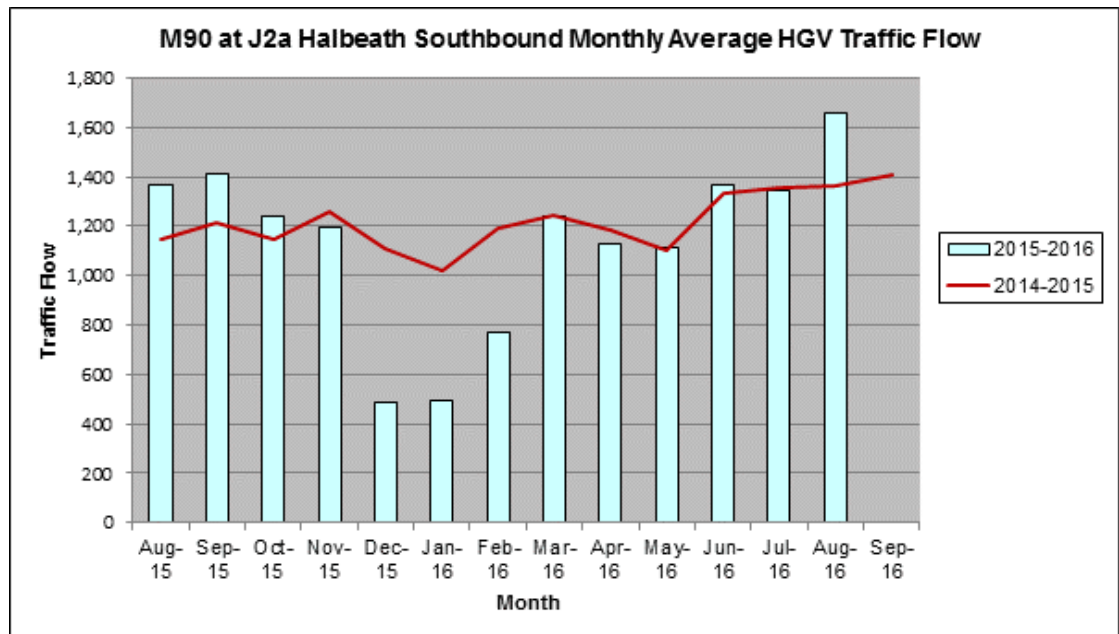


Figure 3-155 Monthly HGV Traffic Flows on the M90 at J2a Halbeath Southbound

### 3.37 Traffic Counter NTC01248 - M9 East of J1a (Lanes to M9 Spur) Westbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows are consistent with the previous monitoring period with the exceptions of December 2015, January 2016 and February 2016.
- Traffic flows are indicative of typical seasonal variation; higher flows over the summer months.
- No data for September 2016 due to the counter needing loops to be re-cut.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.37.1 Monthly Average Traffic Flows

Table 3-116 Site: NTC01248 Annual Traffic Flows - August 2015 to September 2016

Counter	Location	Date	WB
NTC01248	M9 East of J1a (Lanes to M9 Spur) Westbound	Aug-11	No Data
		Aug-15	19,446
		Sep-15	19,194
		Oct-15	18,290
		Nov-15	17,711
		Dec-15	5,816
		Jan-16	14,007
		Feb-16	16,322
		Mar-16	17,859
		Apr-16	18,384
		May-16	18,788
		Jun-16	19,060
		Jul-16	18,995
		Aug-16	19,412
Sep-16	No Data		
	<b>Annual Average</b>	<b>16,989</b>	

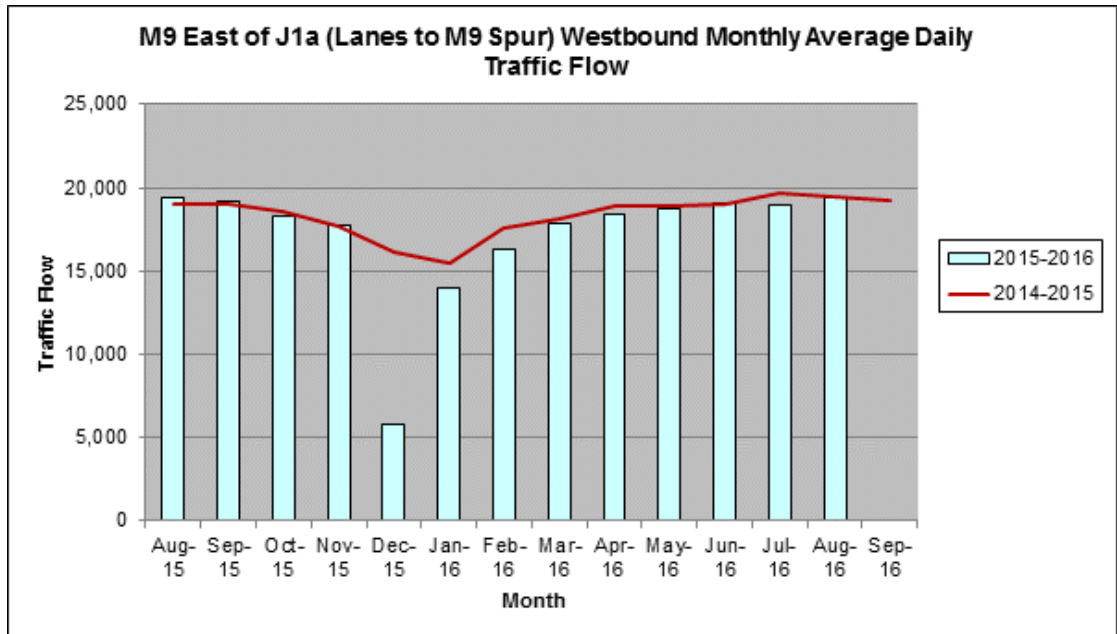


Figure 3-156 Monthly AADTs on the M9 East of J1a (Lanes to M9 Spur) Westbound

### 3.37.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-117 Site: NTC01248 Monthly Westbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01248	M9 East of J1a (Lanes to M9 Spur) Westbound	Aug-11	No Data	No Data
		Aug-15	3,124	4,104
		Sep-15	3,187	4,048
		Oct-15	2,979	3,860
		Nov-15	2,879	3,834
		Dec-15	730	1,186
		Jan-16	2,092	3,467
		Feb-16	2,569	3,853
		Mar-16	2,862	4,019
		Apr-16	2,898	4,012
		May-16	2,931	4,075
		Jun-16	3,002	4,070
		Jul-16	2,831	4,032
		Aug-16	3,140	3,955
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>2,674</b>	<b>3,713</b>	

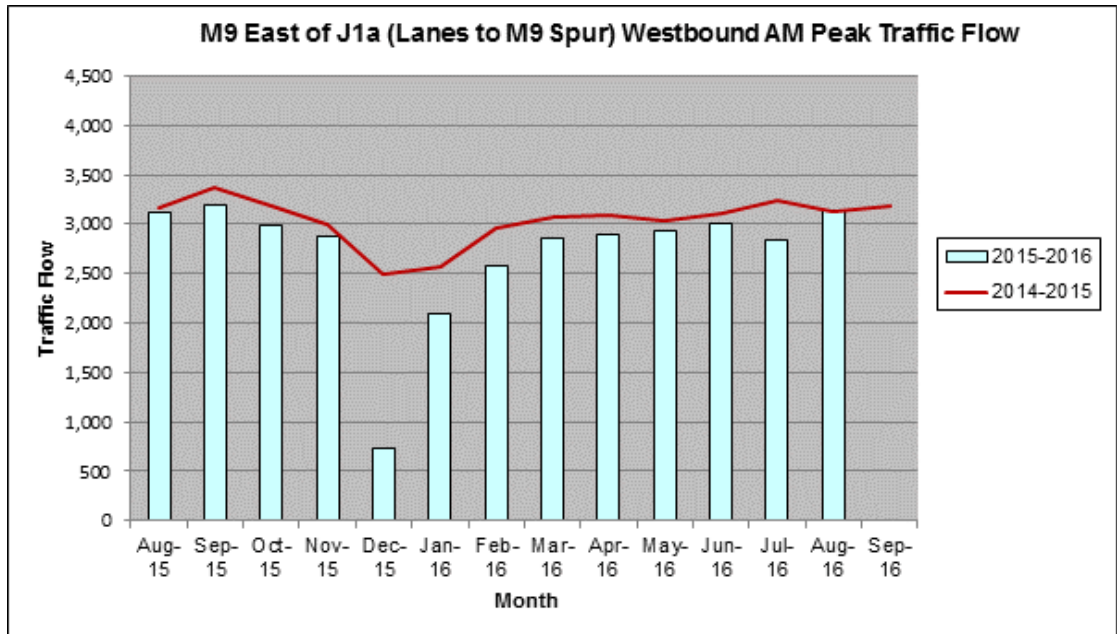


Figure 3-157 Monthly AM Peak Flows on the M9 East of J1a (Lanes to M9 Spur) Westbound

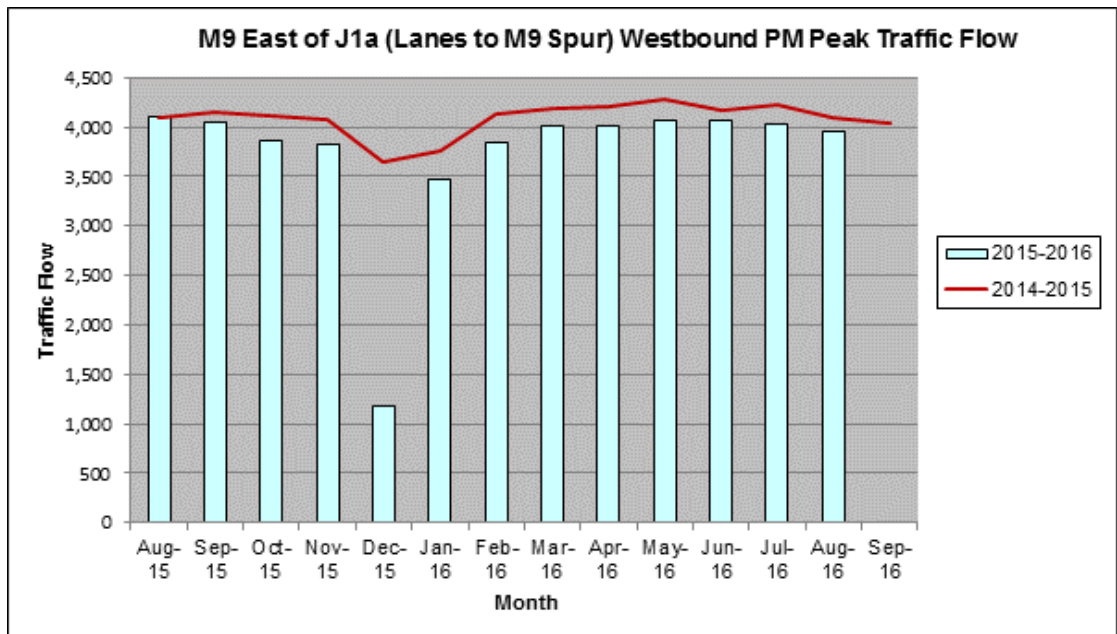


Figure 3-158 Monthly PM Peak Flows on the M9 East of J1a (Lanes to M9 Spur) Westbound

### 3.37.3 Monthly Average HGV Flows

Table 3-118 Site: NTC01248 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	WB
NTC01248	M9 East of J1a (Lanes to M9 Spur) Westbound	Aug-11	No Data
		Aug-15	1,394
		Sep-15	1,515
		Oct-15	1,393
		Nov-15	1,384
		Dec-15	177
		Jan-16	152
		Feb-16	568
		Mar-16	1,400
		Apr-16	1,410
		May-16	1,395
		Jun-16	1,487
		Jul-16	1,387
		Aug-16	1,472
		Sep-16	No Data
		<b>Annual Average</b>	<b>1,139</b>

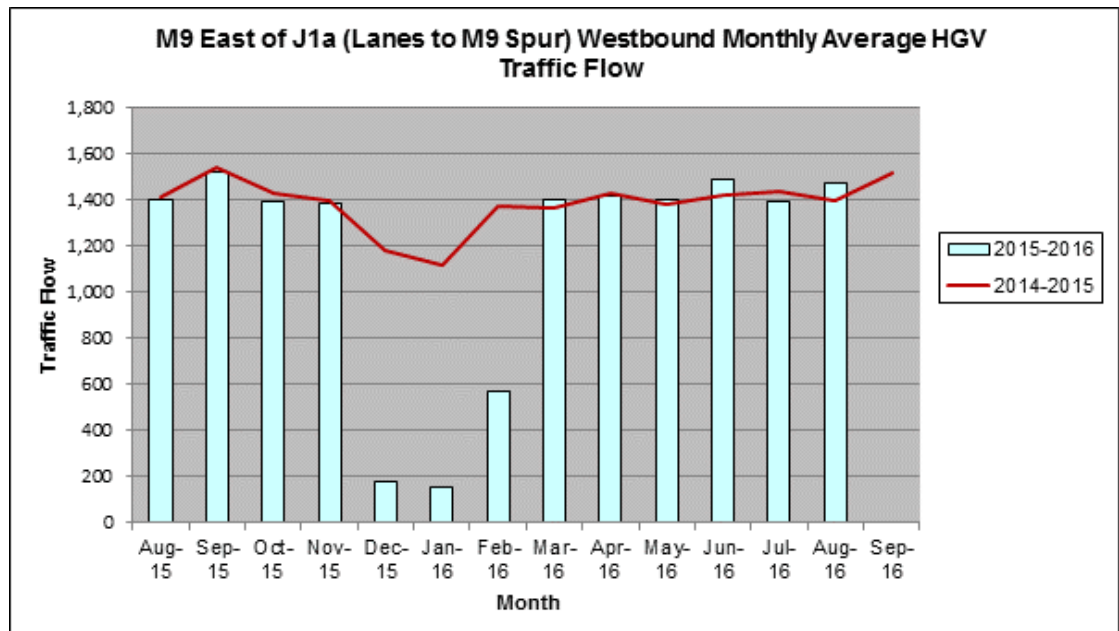


Figure 3-159 Monthly HGV Traffic Flows on the M9 East of J1a (Lanes to M9 Spur) Westbound



### 3.38 Traffic Counter NTC01249 - M9 East of J1a (Main Carriageway) Westbound

Summary of statistics between August 2015 and September 2016:

- The FRB closure caused an increase in traffic as this counter is on one of the diversion routes, the increase of HGV volume remained into January 2016 and February 2016 due to restrictions in place on the FRB.
- No data is available for the baseline period, therefore comparisons cannot be made.
- No data for September 2016 due to the counter requiring loops to be re-cut.

#### 3.38.1 Monthly Average Traffic Flows

**Table 3-119 Site: NTC01249 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	WB
NTC01249	M9 East of J1a (Main Carriageway) Westbound	Aug-11	No Data
		Aug-15	13,966
		Sep-15	14,104
		Oct-15	14,137
		Nov-15	13,643
		Dec-15	17,474
		Jan-16	12,487
		Feb-16	13,800
		Mar-16	14,148
		Apr-16	13,759
		May-16	14,225
		Jun-16	14,799
		Jul-16	14,231
		Aug-16	15,348
Sep-16	No Data		
	<b>Annual Average</b>	<b>14,231</b>	

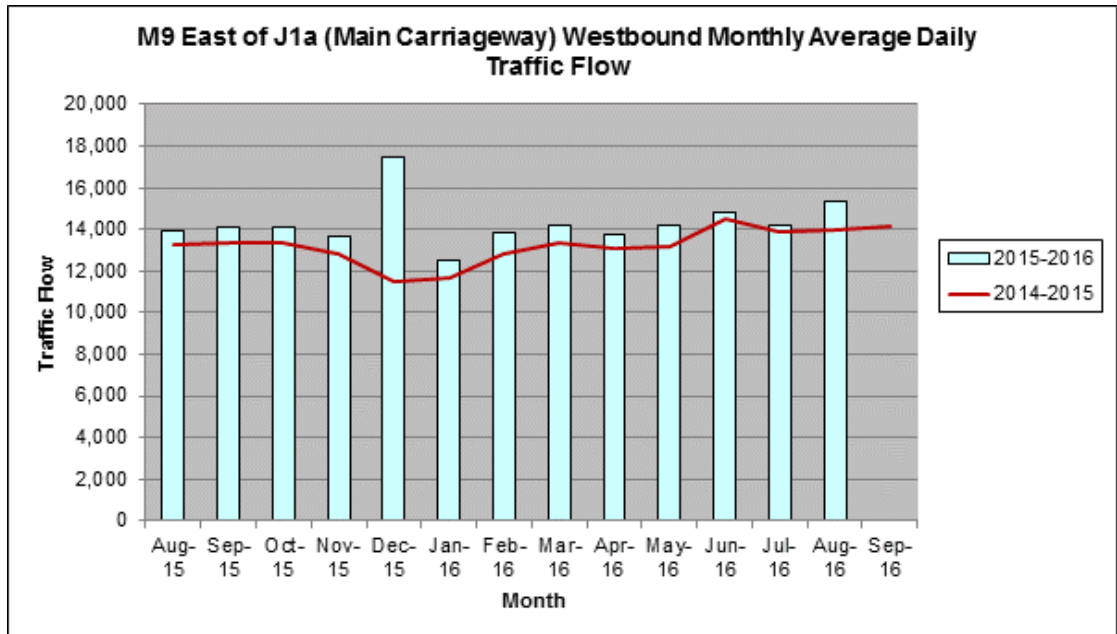


Figure 3-160 Monthly AADTs on the M9 East of J1a (Main Carriageway) Westbound

### 3.38.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-120 Site: NTC01249 Monthly Westbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01249	M9 East of J1a (Main Carriageway) Westbound	Aug-11	No Data	No Data
		Aug-15	1,896	4,072
		Sep-15	2,010	4,284
		Oct-15	1,903	4,242
		Nov-15	1,855	4,202
		Dec-15	2,261	4,240
		Jan-16	1,712	3,754
		Feb-16	1,949	4,118
		Mar-16	2,040	4,313
		Apr-16	1,892	4,095
		May-16	1,922	4,216
		Jun-16	2,018	4,449
		Jul-16	1,813	4,098
		Aug-16	2,026	4,582
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>1,939</b>	<b>4,173</b>	

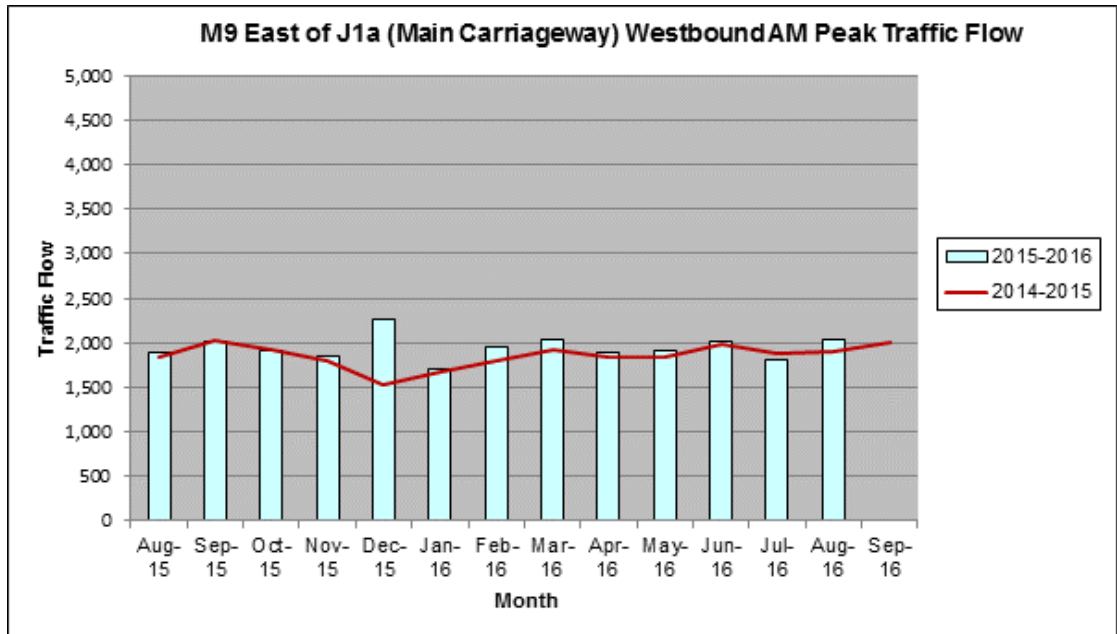


Figure 3-161 Monthly AM Peak Flows on the M9 East of J1a (Main Carriageway) Westbound

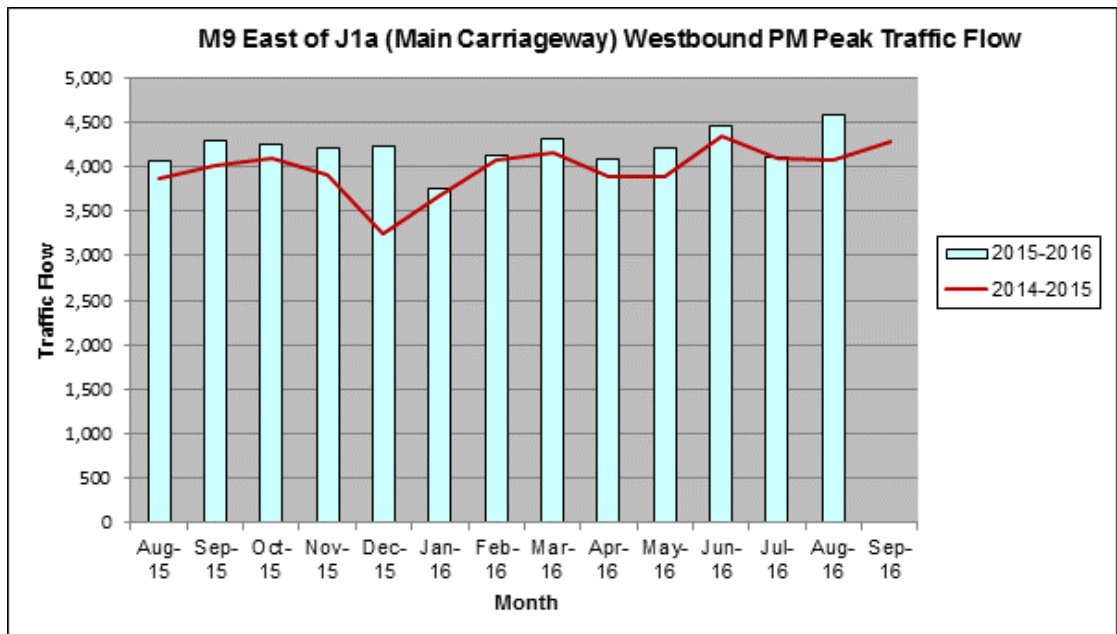


Figure 3-162 Monthly PM Peak Flows on the M9 East of J1a (Main Carriageway) Westbound

### 3.38.3 Monthly Average HGV Flows

Table 3-121 Site: NTC01249 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	WB
NTC01249	M9 East of J1a (Main Carriageway) Westbound	Aug-11	No Data
		Aug-15	590
		Sep-15	618
		Oct-15	627
		Nov-15	608
		Dec-15	1,065
		Jan-16	969
		Feb-16	926
		Mar-16	642
		Apr-16	609
		May-16	606
		Jun-16	657
		Jul-16	625
		Aug-16	679
		Sep-16	No Data

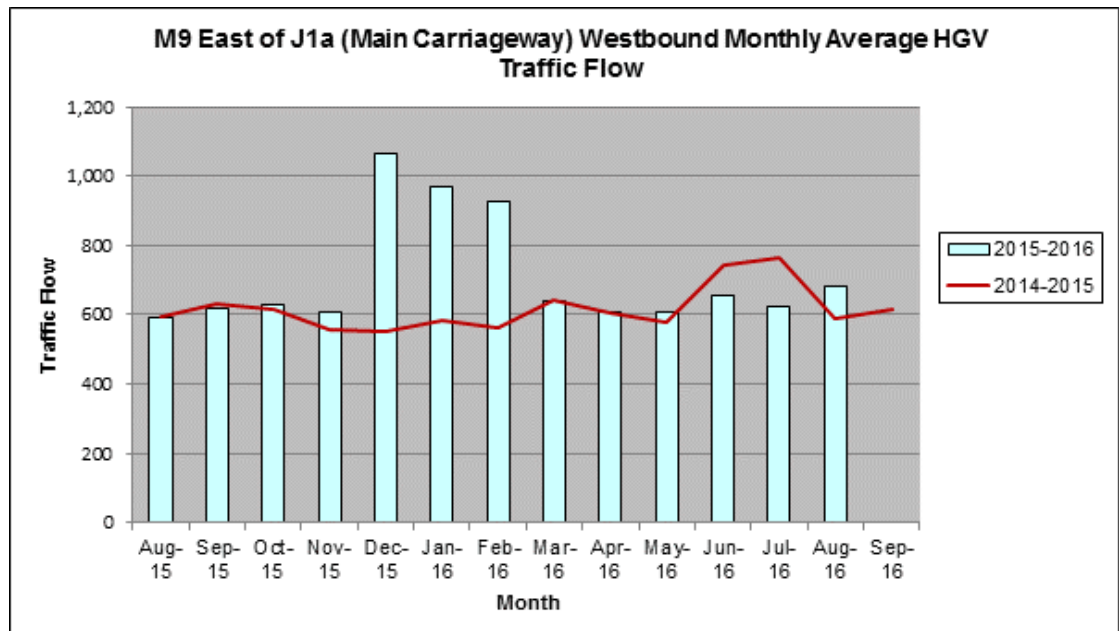


Figure 3-163 Monthly HGV Traffic Flows on the M9 East of J1a (Main Carriageway) Westbound

### 3.39 Traffic Counter NTC01250 - M9 East of J1a (Main Carriageway) Eastbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows are similar to that of the previous monitoring period with the exceptions of December 2015, January 2016 and February 2016.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.39.1 Monthly Average Traffic Flows

**Table 3-122 Site: NTC01250 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB
NTC01250	M9 East of J1a (Main Carriageway) Eastbound	Aug-11	No Data
		Aug-15	18,981
		Sep-15	19,249
		Oct-15	18,676
		Nov-15	18,341
		Dec-15	13,291
		Jan-16	15,432
		Feb-16	17,431
		Mar-16	18,786
		Apr-16	18,580
		May-16	18,198
		Jun-16	18,592
		Jul-16	18,177
		Aug-16	19,005
		Sep-16	18,857
	<b>Annual Average</b>	<b>17,811</b>	

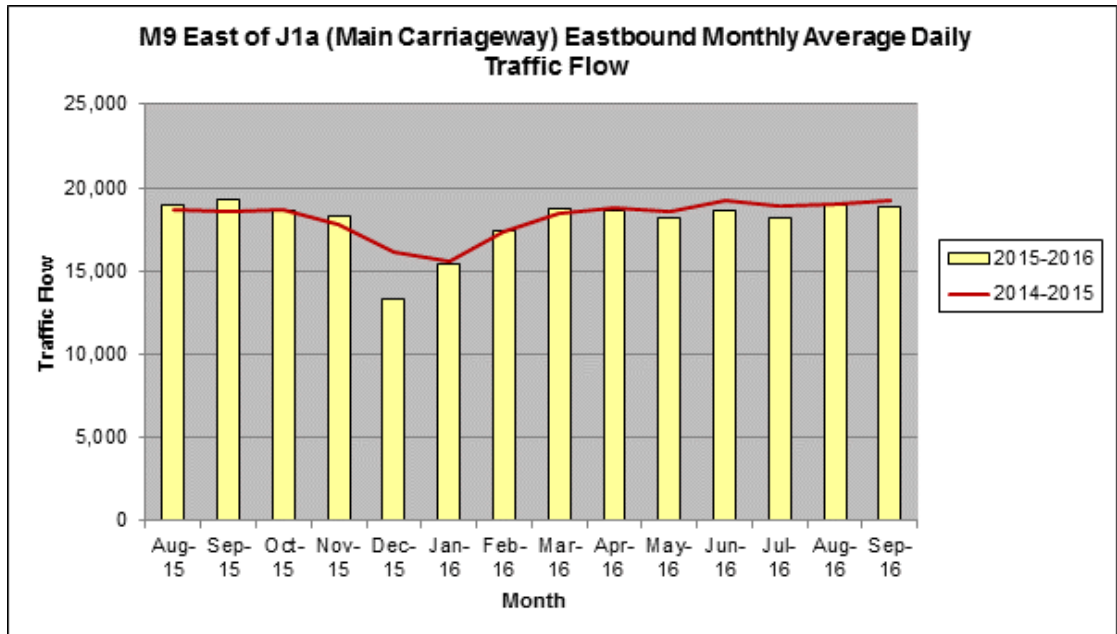


Figure 3-164 Monthly AADTs on the M9 East of J1a (Main Carriageway) Eastbound

### 3.39.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-123 Site: NTC01250 Monthly Eastbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01250	M9 East of J1a (Main Carriageway) Eastbound	Aug-11	No Data	No Data
		Aug-15	4,011	3,681
		Sep-15	4,570	3,607
		Oct-15	4,374	3,477
		Nov-15	4,520	3,190
		Dec-15	2,685	2,249
		Jan-16	3,582	2,843
		Feb-16	4,153	3,228
		Mar-16	4,461	3,529
		Apr-16	4,124	3,442
		May-16	3,970	3,445
		Jun-16	4,064	3,384
		Jul-16	3,693	3,353
		Aug-16	3,987	3,563
		Sep-16	4,326	3,479
	<b>Annual Average</b>	<b>4,017</b>	<b>3,286</b>	

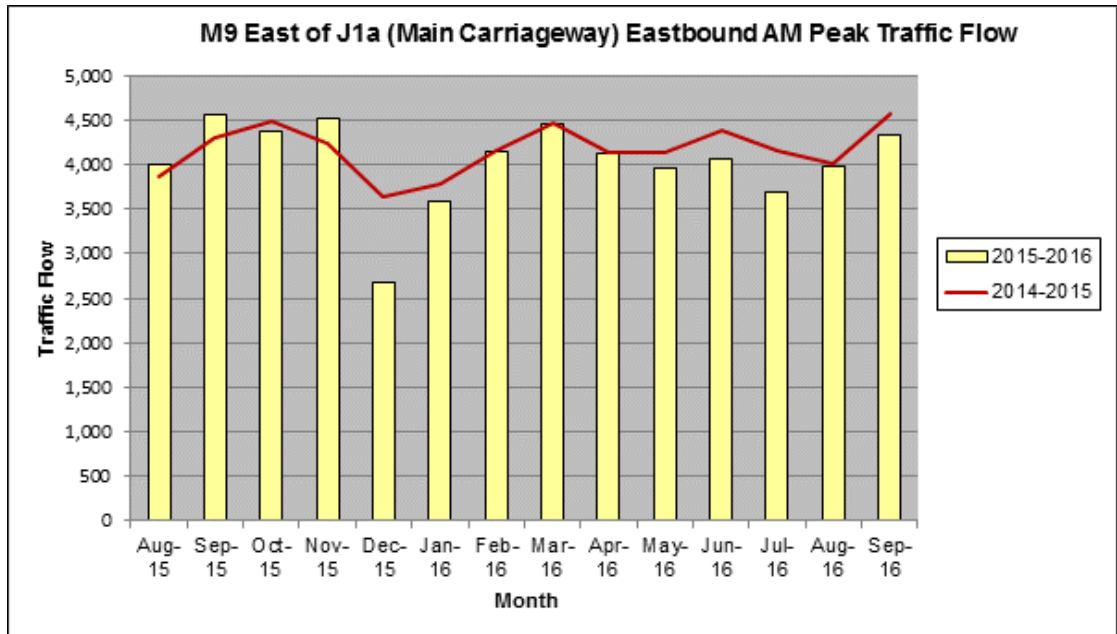


Figure 3-165 Monthly AM Peak Flows on the M9 East of J1a (Main Carriageway) Eastbound

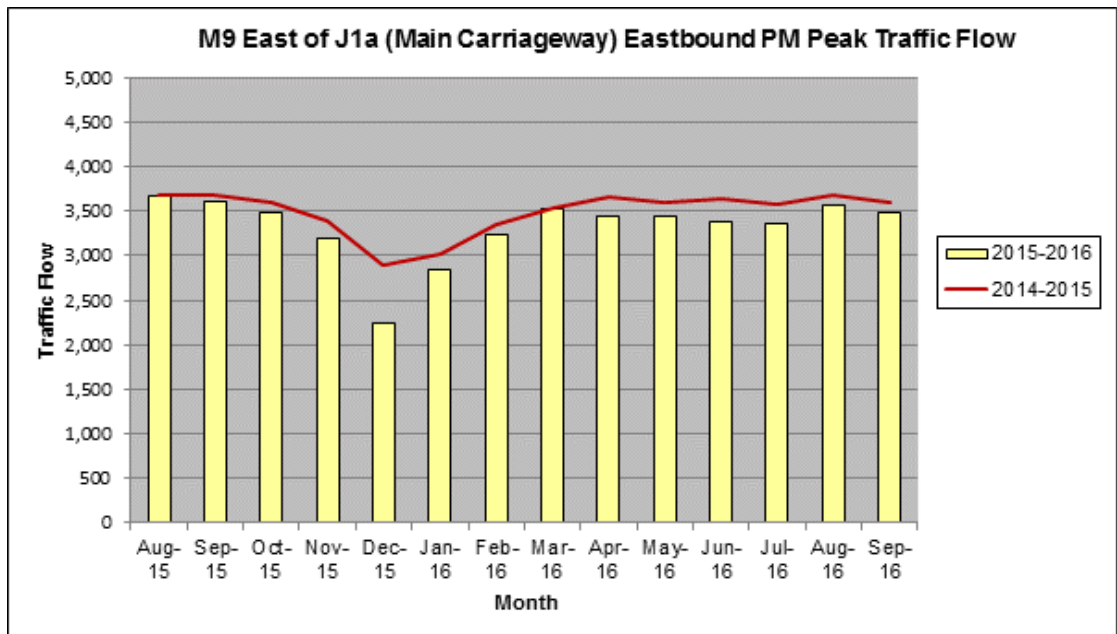
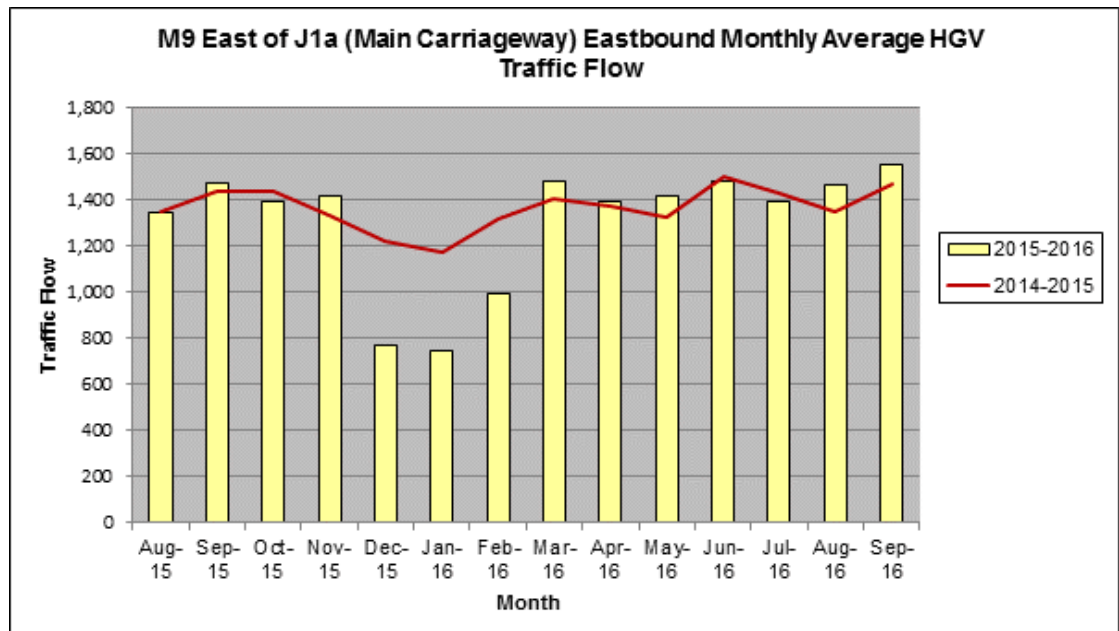


Figure 3-166 Monthly PM Peak Flows on the M9 East of J1a (Main Carriageway) Eastbound

### 3.39.3 Monthly Average HGV Flows

**Table 3-124 Site: NTC01250 Annual HGV Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB
NTC01250	M9 East of J1a (Main Carriageway) Eastbound	Aug-11	No Data
		Aug-15	1,343
		Sep-15	1,466
		Oct-15	1,389
		Nov-15	1,413
		Dec-15	767
		Jan-16	740
		Feb-16	991
		Mar-16	1,476
		Apr-16	1,389
		May-16	1,416
		Jun-16	1,476
		Jul-16	1,388
		Aug-16	1,459
		Sep-16	1,545
		<b>Annual Average</b>	<b>1,271</b>



**Figure 3-167 Monthly HGV Traffic Flows on the M9 East of J1a (Main Carriageway) Eastbound**



### 3.40 Traffic Counter NTC01251 - M9 East of J1a (Lanes to Newbridge) Eastbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows otherwise follow a similar pattern to the previous monitoring period.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.40.1 Monthly Average Traffic Flows

**Table 3-125 Site: NTC01251 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB
NTC01251	M9 East of J1a (Lanes to Newbridge) Eastbound	Aug-11	No Data
		Aug-15	14,681
		Sep-15	14,655
		Oct-15	13,483
		Nov-15	12,951
		Dec-15	10,646
		Jan-16	11,627
		Feb-16	12,740
		Mar-16	13,835
		Apr-16	14,019
		May-16	14,531
		Jun-16	14,936
		Jul-16	15,069
		Aug-16	15,516
		Sep-16	15,124
	<b>Annual Average</b>	<b>13,598</b>	

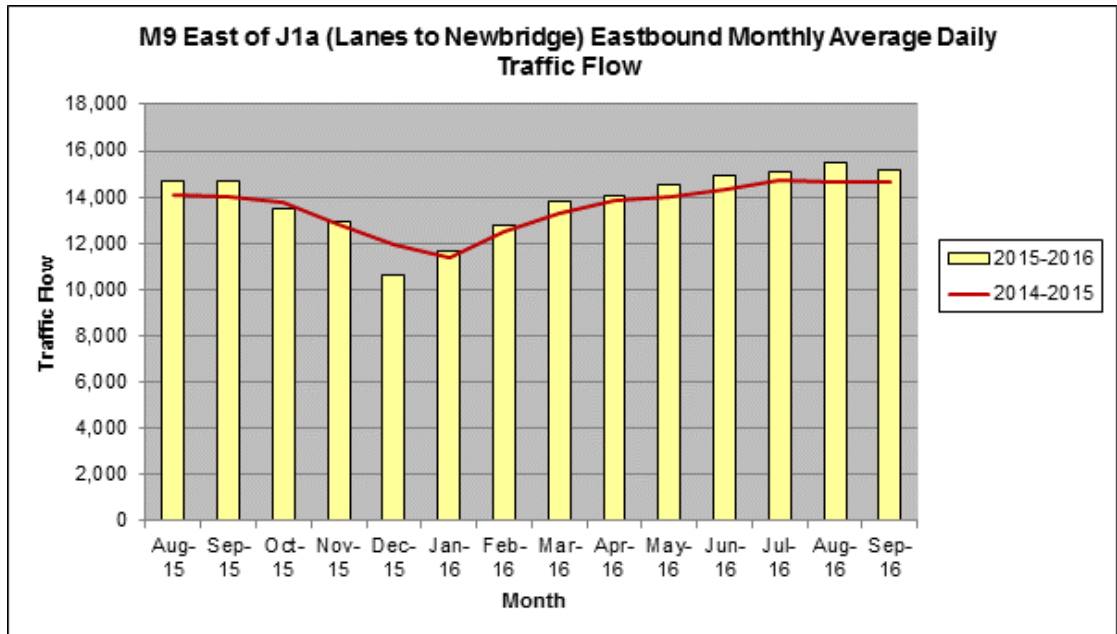


Figure 3-168 Monthly AADTs on the M9 East of J1a (Lanes to Newbridge) Eastbound

### 3.40.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-126 Site: NTC01251 Monthly Eastbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01251	M9 East of J1a (Lanes to Newbridge) Eastbound	Aug-11	No Data	No Data
		Aug-15	3,119	2,641
		Sep-15	3,289	2,623
		Oct-15	2,930	2,399
		Nov-15	2,938	2,330
		Dec-15	2,340	1,689
		Jan-16	2,668	1,996
		Feb-16	2,878	2,275
		Mar-16	3,279	2,470
		Apr-16	3,097	2,461
		May-16	3,125	2,586
		Jun-16	3,157	2,578
		Jul-16	3,095	2,524
		Aug-16	3,229	2,790
		Sep-16	3,107	2,683
	<b>Annual Average</b>	<b>2,993</b>	<b>2,381</b>	

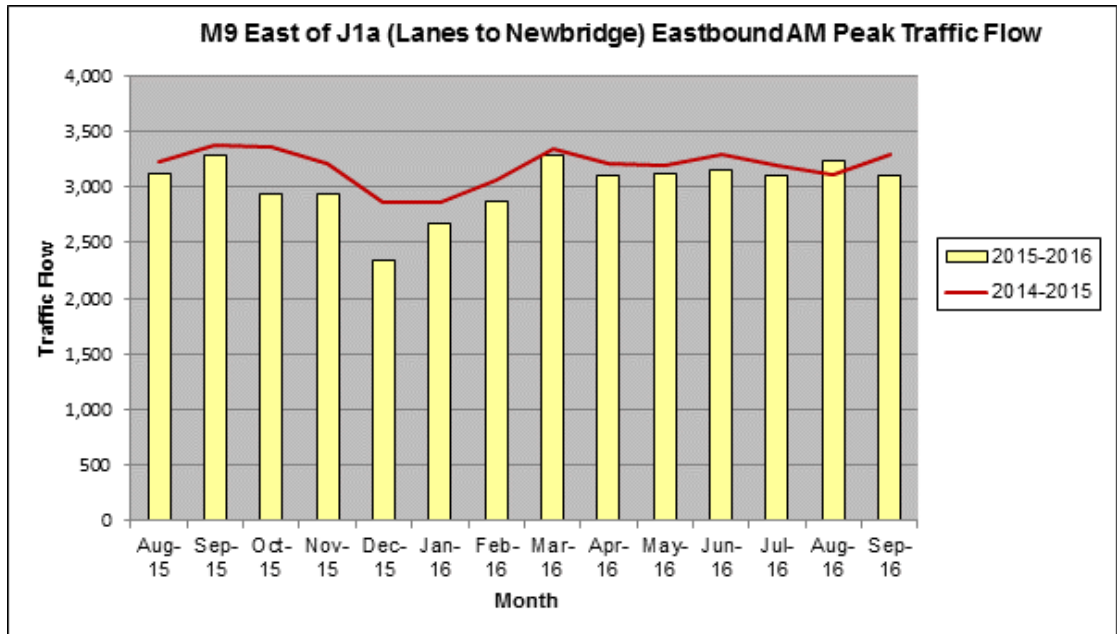


Figure 3-169 Monthly AM Peak Flows on the M9 East of J1a (Lanes to Newbridge) Eastbound

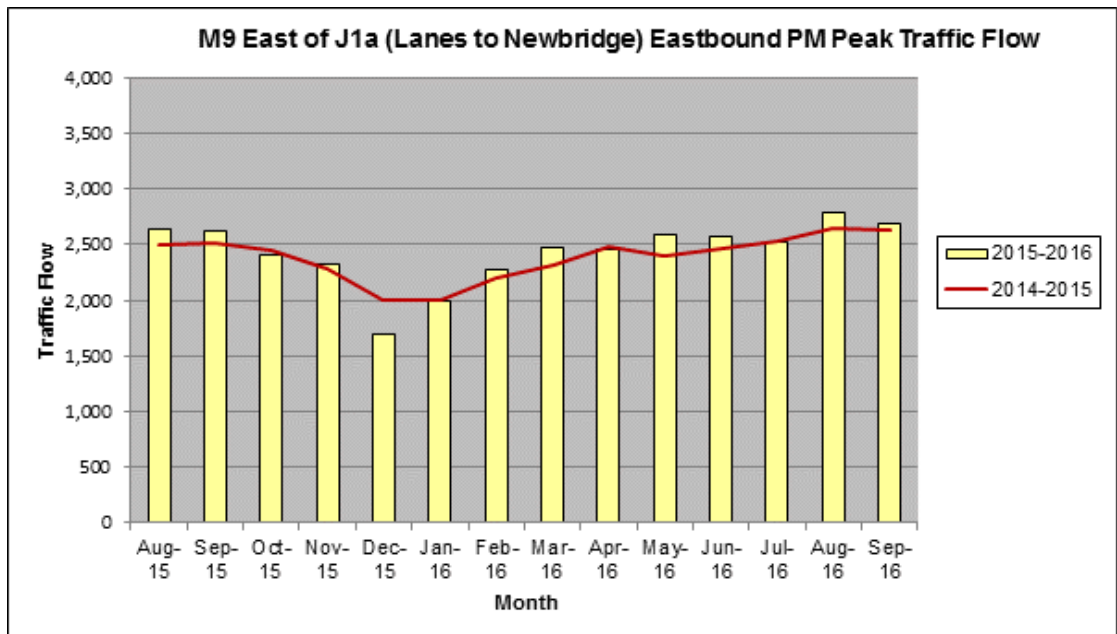
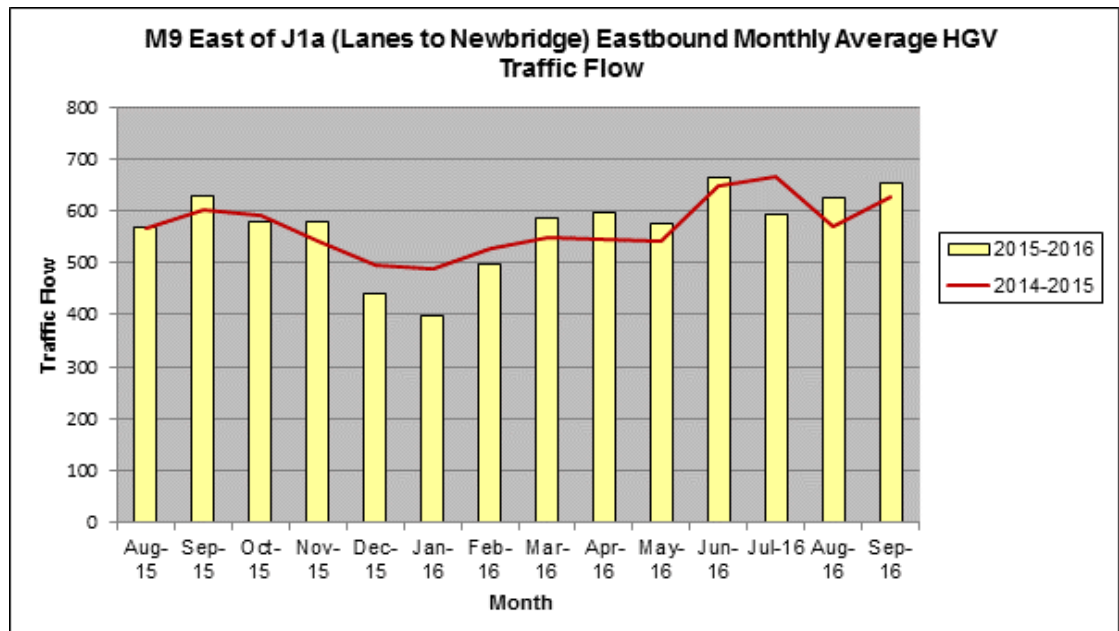


Figure 3-170 Monthly PM Peak Flows on the M9 East of J1a (Lanes to Newbridge) Eastbound

### 3.40.3 Monthly Average HGV Flows

**Table 3-127 Site: NTC01251 Annual HGV Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB
NTC01251	M9 East of J1a (Lanes to Newbridge) Eastbound	Aug-11	No Data
		Aug-15	569
		Sep-15	628
		Oct-15	577
		Nov-15	579
		Dec-15	439
		Jan-16	399
		Feb-16	498
		Mar-16	585
		Apr-16	596
		May-16	575
		Jun-16	665
		Jul-16	594
		Aug-16	631
		Sep-16	651
		<b>Annual Average</b>	<b>559</b>



**Figure 3-171 Monthly HGV Traffic Flows on the M9 East of J1a (Lanes to Newbridge) Eastbound**

### 3.41 Traffic Counter NTC01173 - M90 South of J2a Halbeath Southbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- No data recorded from August 2016 onwards.
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 3.41.1 Monthly Average Traffic Flows

**Table 3-128 Site: NTC01173 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01173	M90 South of J2a Halbeath Southbound	Aug-11	No Data
		Aug-15	30,968
		Sep-15	30,357
		Oct-15	24,633
		Nov-15	26,887
		Dec-15	13,990
		Jan-16	22,632
		Feb-16	25,504
		Mar-16	27,041
		Apr-16	27,800
		May-16	27,471
		Jun-16	28,529
		Jul-16	28,307
		Aug-16	No Data
		Sep-16	No Data
<b>Annual Average</b>	<b>26,177</b>		

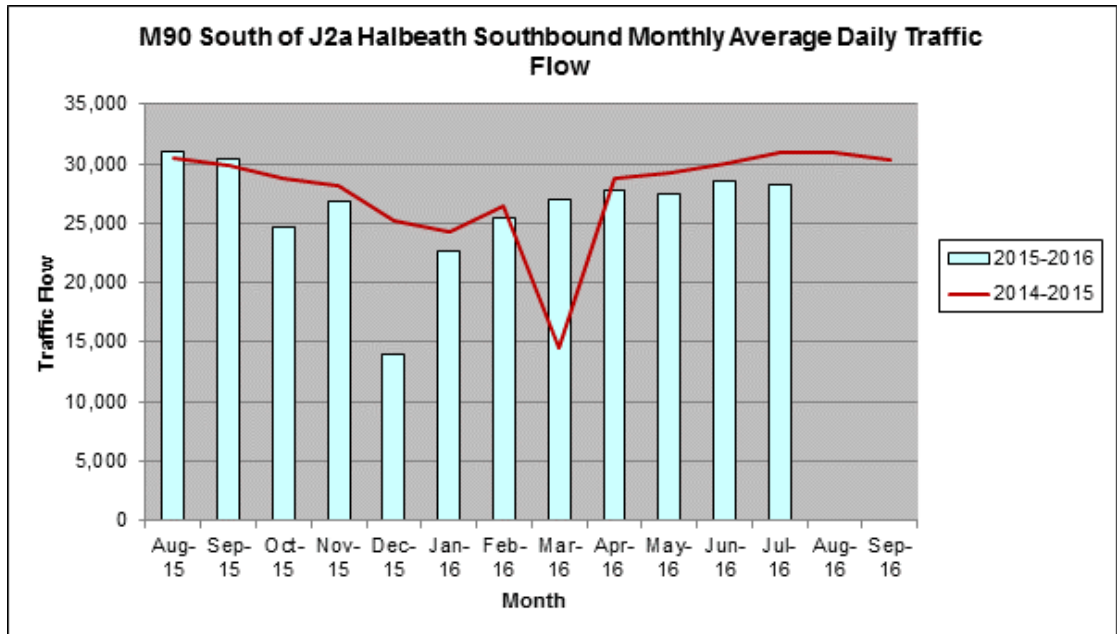


Figure 3-172 Monthly AADTs on the M90 South of J2a Halbeath Southbound

### 3.41.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-129 Site: NTC01173 Monthly Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01173	M90 South of J2a Halbeath Southbound	Aug-11	No Data	No Data
		Aug-15	5,370	6,451
		Sep-15	5,476	6,373
		Oct-15	4,355	4,968
		Nov-15	4,620	5,559
		Dec-15	2,256	2,557
		Jan-16	3,997	4,700
		Feb-16	4,635	5,286
		Mar-16	4,803	5,606
		Apr-16	4,884	5,618
		May-16	4,620	5,665
		Jun-16	5,103	5,741
		Jul-16	4,619	5,609
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>4,561</b>	<b>5,344</b>	

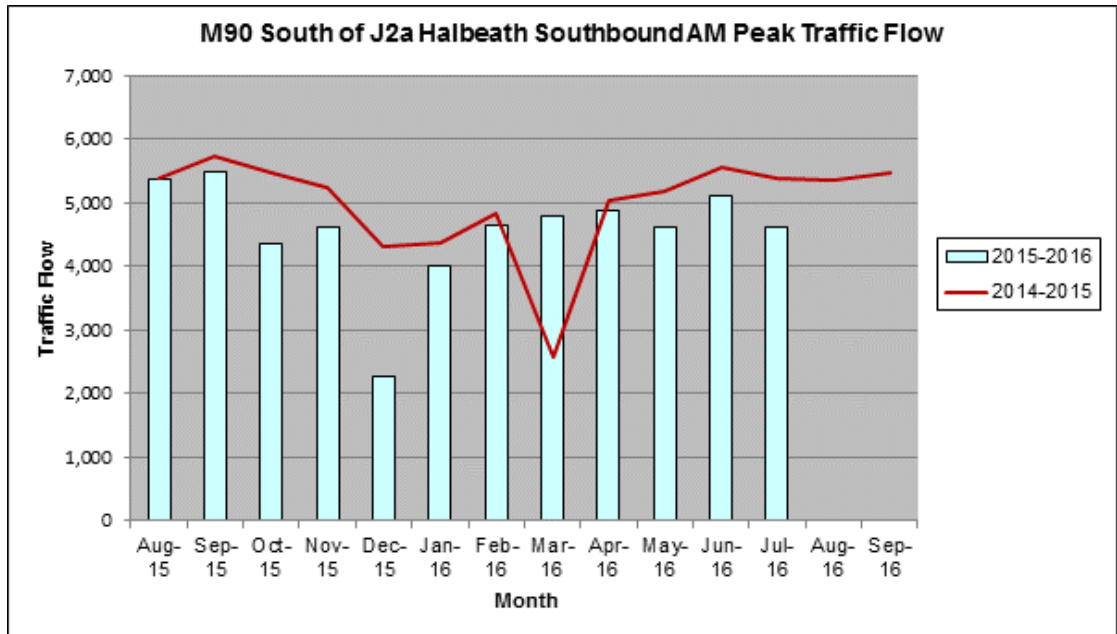


Figure 3-173 Monthly AM Peak Flows on the M90 South of J2a Halbeath Southbound

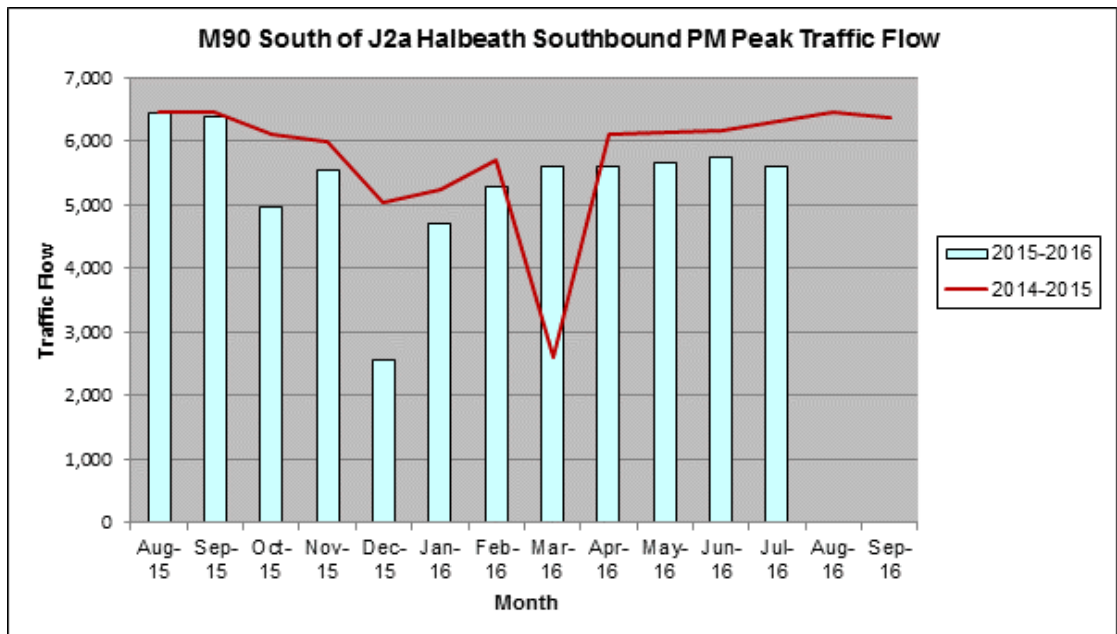
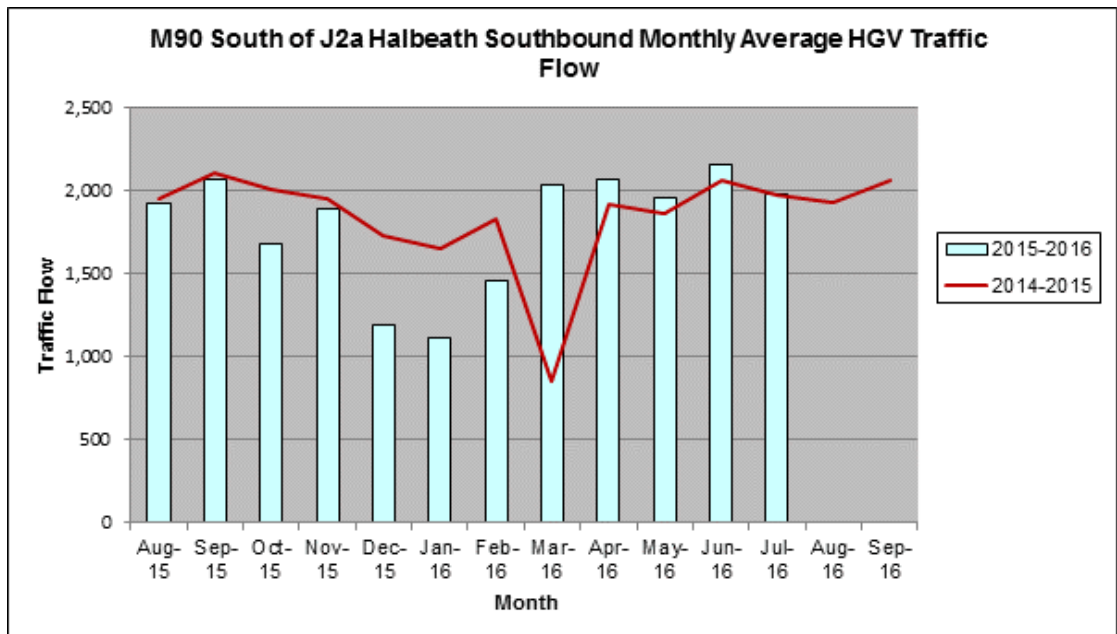


Figure 3-174 Monthly PM Peak Flows on the M90 South of J2a Halbeath Southbound

### 3.41.3 Monthly Average HGV Flows

**Table 3-130 Site: NTC01173 Annual HGV Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC01173	M90 South of J2a Halbeath Southbound	Aug-11	No Data
		Aug-15	1,919
		Sep-15	2,058
		Oct-15	1,680
		Nov-15	1,881
		Dec-15	1,189
		Jan-16	1,107
		Feb-16	1,454
		Mar-16	2,032
		Apr-16	2,067
		May-16	1,951
		Jun-16	2,154
		Jul-16	1,977
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	<b>1,789</b>



**Figure 3-175 Monthly HGV Traffic Flows on the M90 South of J2a Halbeath Southbound**



### 3.42 Traffic Counter NTC01174 - M90 South of J2a Halbeath Northbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- No data is available for the baseline period, therefore comparisons cannot be made.
- It is not possible to establish reliable HGV data due to a classification error present since 2014.
- No data since August 2016 due to the counter requiring loops to be re-cut.

#### 3.42.1 Monthly Average Traffic Flows

**Table 3-131 Site: NTC01174 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
NTC01174	M90 South of J2a Halbeath Northbound	Aug-11	No Data
		Aug-15	29,727
		Sep-15	29,480
		Oct-15	24,087
		Nov-15	26,797
		Dec-15	14,269
		Jan-16	23,586
		Feb-16	26,964
		Mar-16	28,949
		Apr-16	29,276
		May-16	29,193
		Jun-16	30,039
		Jul-16	29,253
		Aug-16	No Data
		Sep-16	No Data
	<b>Annual Average</b>	<b>26,802</b>	

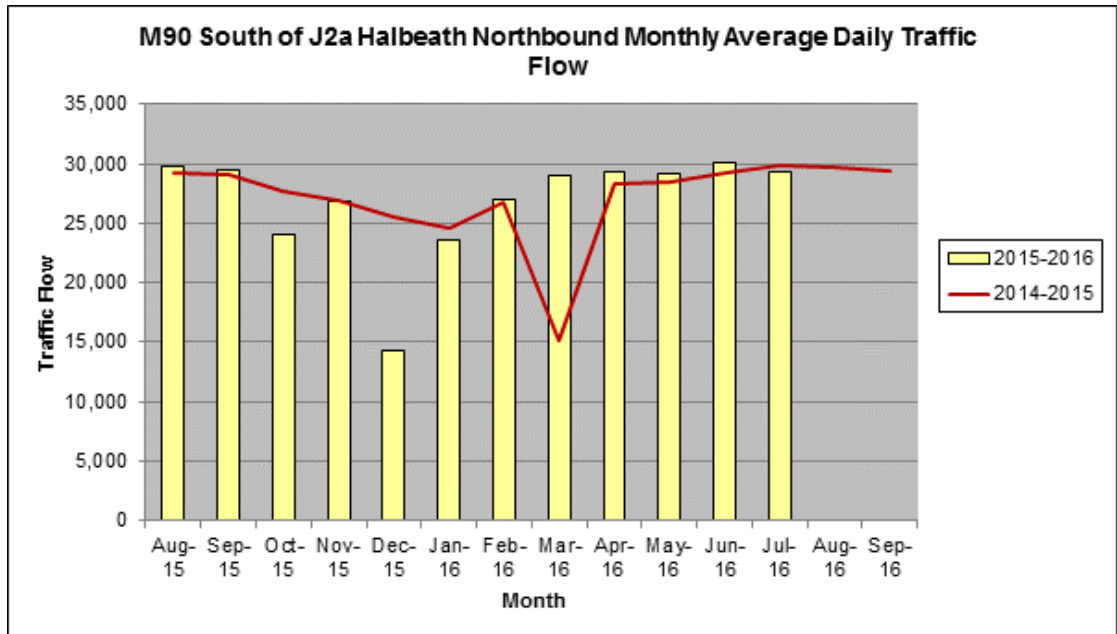


Figure 3-176 Monthly AADTs on the M90 South of J2a Halbeath Northbound

### 3.42.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-132 Site: NTC01174 Monthly Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC01174	M90 South of J2a Halbeath Northbound	Aug-11	No Data	No Data
		Aug-15	4,952	6,998
		Sep-15	5,299	7,141
		Oct-15	4,293	5,810
		Nov-15	4,811	6,556
		Dec-15	2,083	3,308
		Jan-16	3,933	6,127
		Feb-16	4,714	6,892
		Mar-16	5,139	7,135
		Apr-16	5,043	7,114
		May-16	5,085	6,927
		Jun-16	5,397	7,274
		Jul-16	4,801	6,829
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>4,629</b>	<b>6,509</b>	

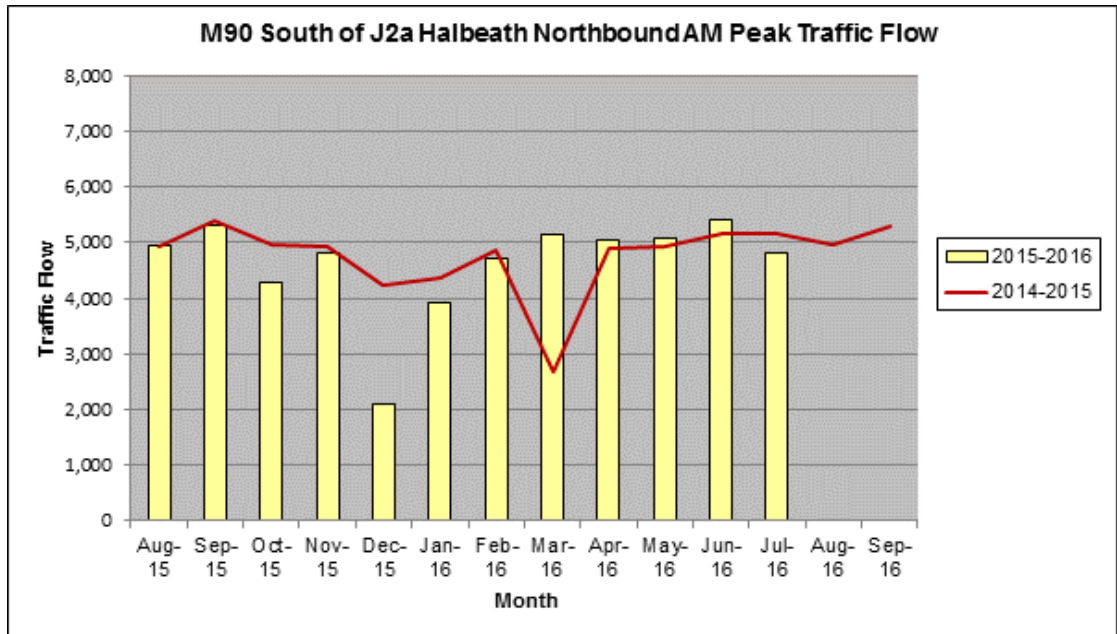


Figure 3-177 Monthly AM Peak Flows on the M90 South of J2a Halbeath Northbound

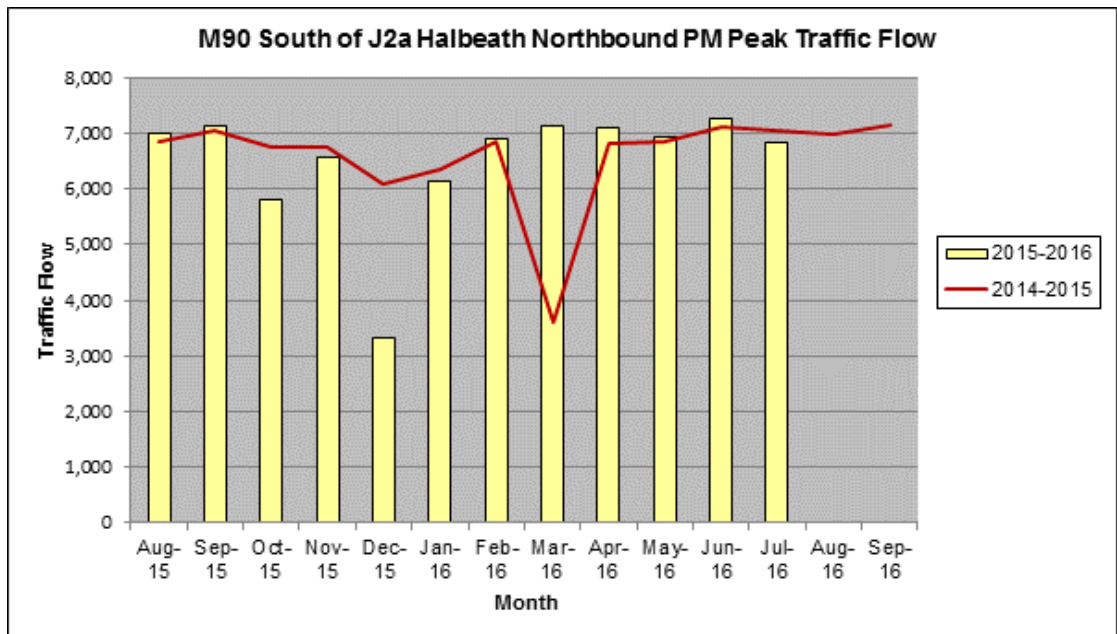


Figure 3-178 Monthly PM Peak Flows on the M90 South of J2a Halbeath Northbound

### 3.43 Traffic Counter JTC00628 - M8 between Junction 2 and 3 Eastbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- No data is available for the baseline or previous monitoring periods, therefore comparisons cannot be made.

#### 3.43.1 Monthly Average Traffic Flows

Table 3-133 Site: JTC00628 Annual Traffic Flows - August 2015 to September 2016

Counter	Location	Date	EB
JTC00628	M8 between Junction 2 and 3 Eastbound	Aug-11	No Data
		Aug-15	32,925
		Sep-15	33,330
		Oct-15	32,799
		Nov-15	31,513
		Dec-15	25,723
		Jan-16	27,229
		Feb-16	31,688
		Mar-16	32,165
		Apr-16	32,246
		May-16	31,164
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	<b>31,078</b>

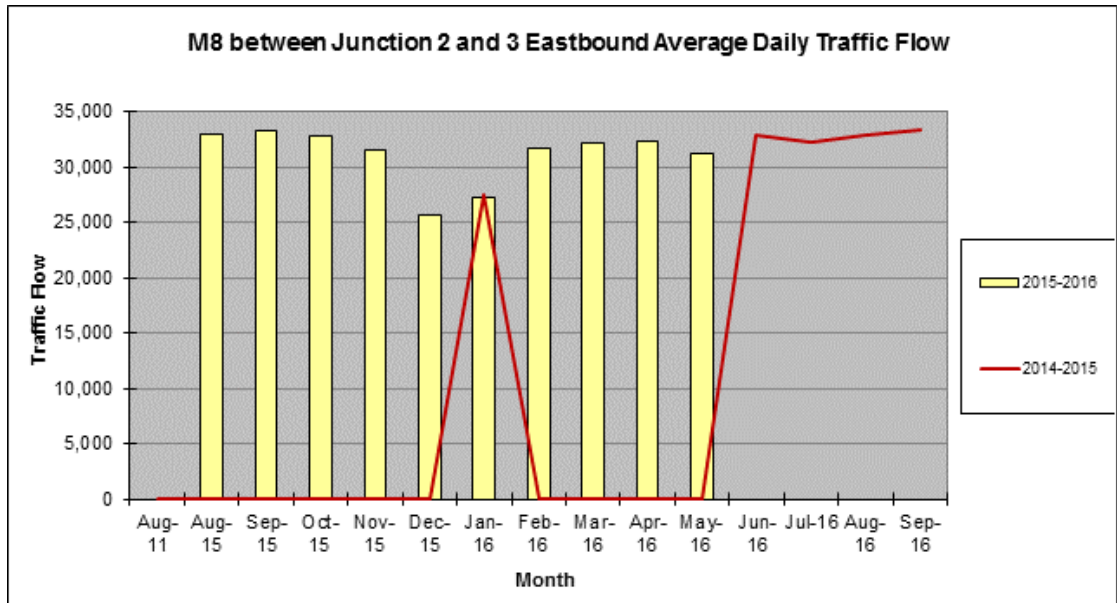


Figure 3-179 Monthly AADTs on the M8 between Junction 2 and 3 Eastbound

### 3.43.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-134 Site: JTC00628 Eastbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00628	M8 between Junction 2 and 3 Eastbound	Aug-11	No Data	No Data
		Aug-15	6,525	5,006
		Sep-15	6,831	4,976
		Oct-15	6,681	5,089
		Nov-15	7,254	5,596
		Dec-15	5,405	4,549
		Jan-16	6,170	5,147
		Feb-16	7,564	5,692
		Mar-16	7,097	5,598
		Apr-16	7,115	5,826
		May-16	6,697	5,693
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>6,734</b>	<b>5,317</b>	

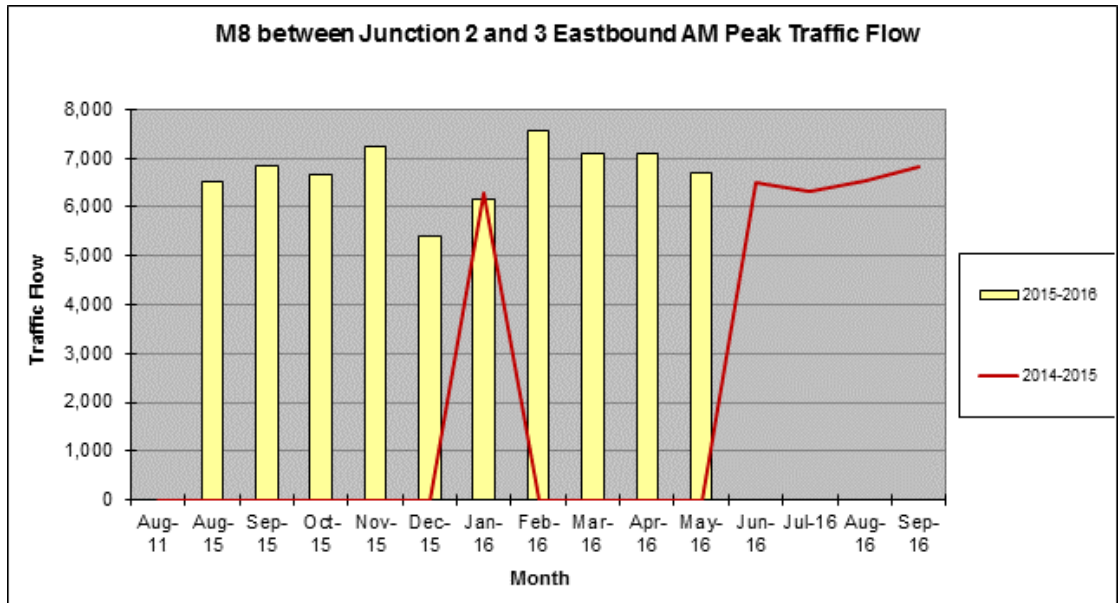


Figure 3-180 Monthly AM Peak Flows on the M8 between Junction 2 and 3 Eastbound

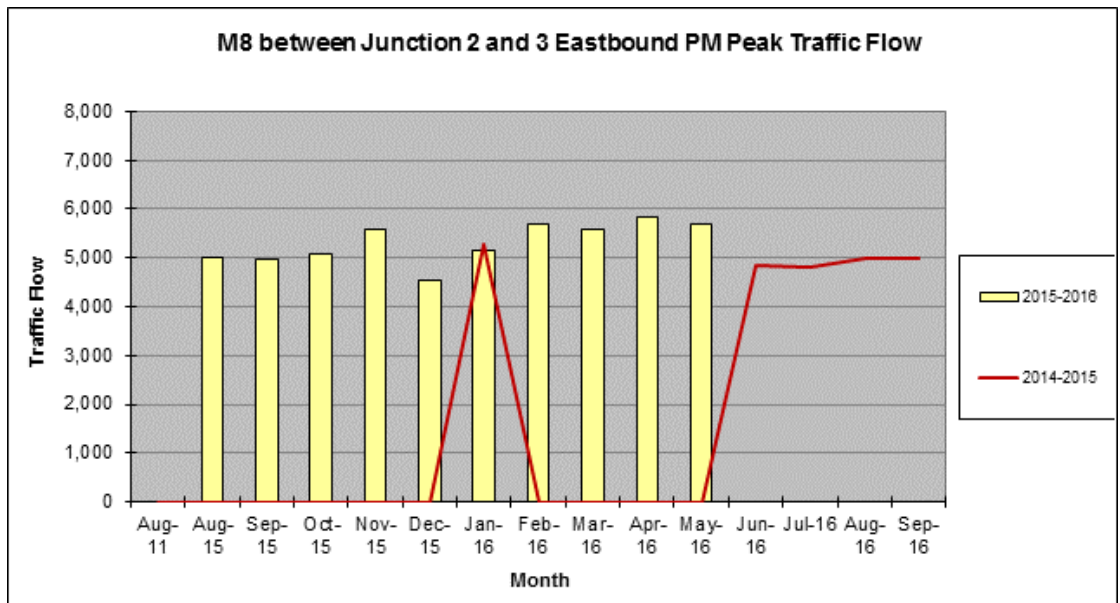


Figure 3-181 Monthly PM Peak Flows on the M8 between Junction 2 and 3 Eastbound

### 3.43.3 Monthly Average HGV Flows

Table 3-135 Site: JTC00628 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	EB
JTC00628	M8 between Junction 2 and 3 Eastbound	Aug-11	No Data
		Aug-15	1,774
		Sep-15	1,869
		Oct-15	1,820
		Nov-15	1,815
		Dec-15	1,235
		Jan-16	1,119
		Feb-16	1,505
		Mar-16	1,827
		Apr-16	1,793
		May-16	1,707
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data

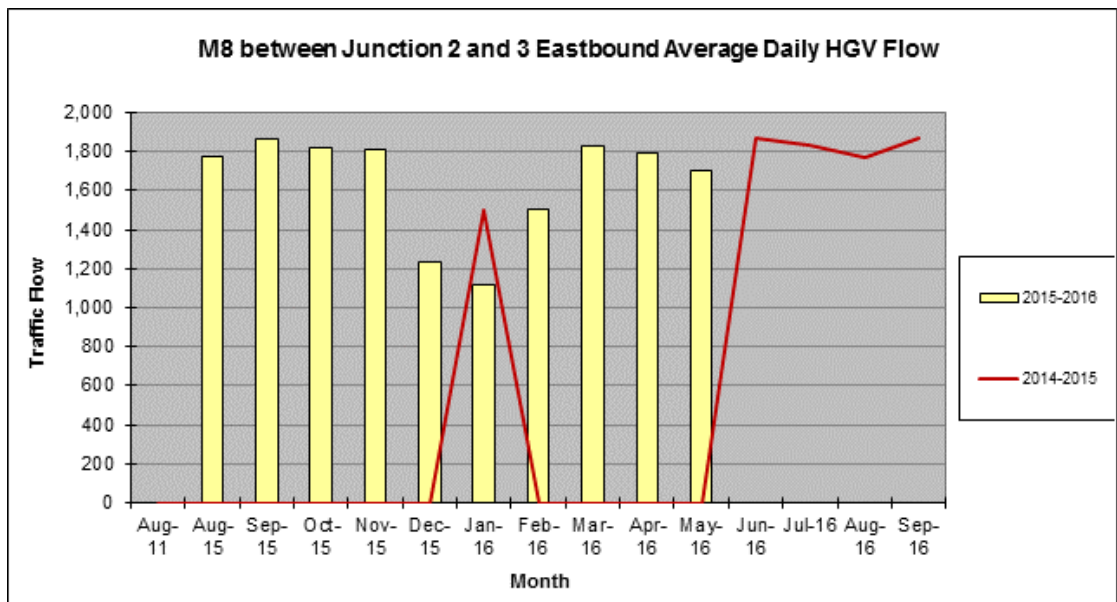
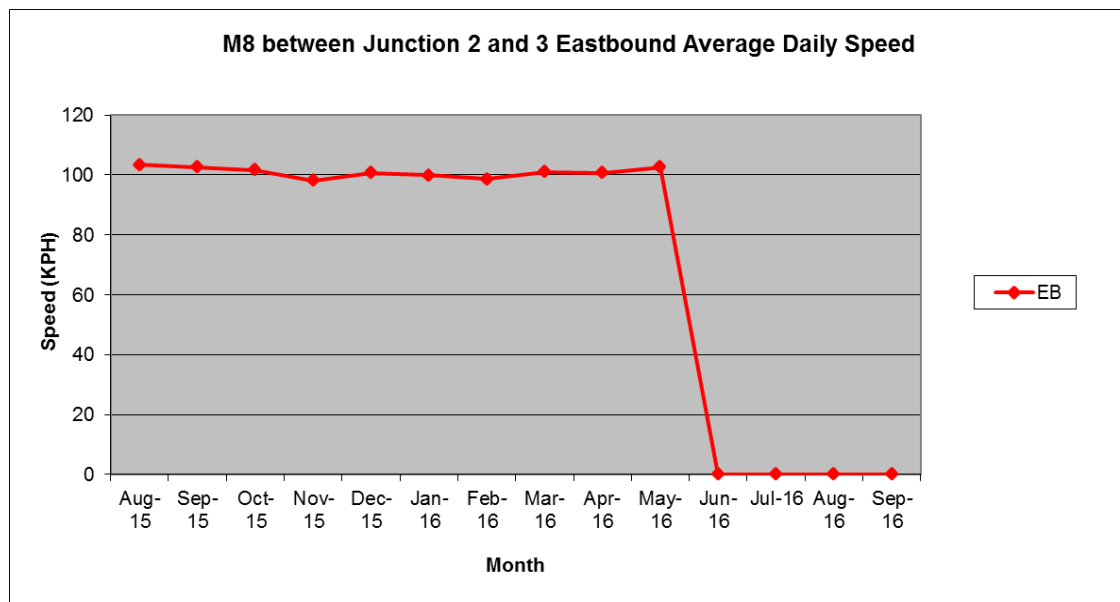


Figure 3-182 Monthly HGV Traffic Flows on the M8 between Junction 2 and 3 Eastbound

### 3.43.4 Monthly Average All Vehicles Traffic Speeds

**Table 3-136 Site: JTC00628 Average Monthly Traffic Speeds (KPH) (All Vehicles) - August 2015 to September 2016**

Counter	Location	Date	EB
JTC00628	M8 between Junction 2 and 3 Eastbound	Aug-15	103
		Sep-15	103
		Oct-15	102
		Nov-15	98
		Dec-15	101
		Jan-16	100
		Feb-16	99
		Mar-16	101
		Apr-16	101
		May-16	103
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data



**Figure 3-183 Average Monthly Traffic Speeds (KPH) on the M8 between Junction 2 and 3 Eastbound**



### 3.44 Traffic Counter JTC00629 - M8 between Junction 2 and 3 Westbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- No data is available for the baseline or previous monitoring periods, therefore comparisons cannot be made.

#### 3.44.1 Monthly Average Traffic Flows

**Table 3-137 Site: JTC00629 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	WB
JTC00629	M8 between Junction 2 and 3 Westbound	Aug-11	No Data
		Aug-15	34,834
		Sep-15	34,825
		Oct-15	33,475
		Nov-15	33,075
		Dec-15	27,039
		Jan-16	28,107
		Feb-16	32,867
		Mar-16	33,329
		Apr-16	34,750
		May-16	33,411
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
	<b>Annual Average</b>	<b>32,571</b>	

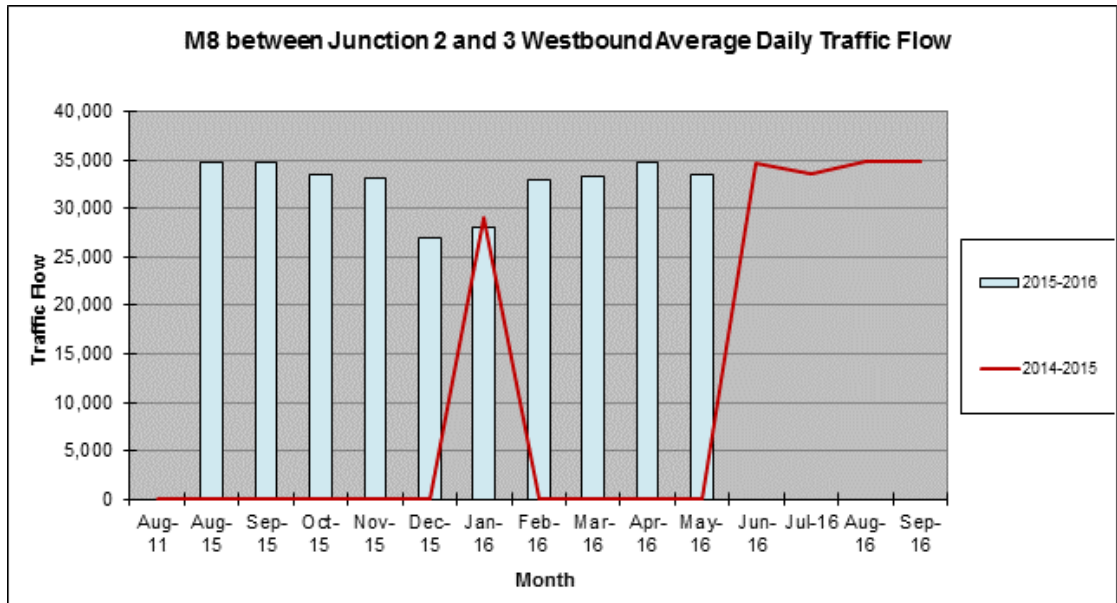


Figure 3-184 Monthly AADTs on the M8 between Junction 2 and 3 Westbound

### 3.44.2 Monthly Average AM and PM Peak Traffic Flows

Table 3-138 Site: JTC00629 Westbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00629	M8 between Junction 2 and 3 Westbound	Aug-11	No Data	No Data
		Aug-15	5,502	6,745
		Sep-15	5,678	6,608
		Oct-15	5,532	6,543
		Nov-15	5,416	7,395
		Dec-15	4,047	5,930
		Jan-16	4,356	6,535
		Feb-16	5,441	7,734
		Mar-16	5,283	7,715
		Apr-16	5,626	8,049
		May-16	5,329	7,788
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>5,221</b>	<b>7,104</b>	

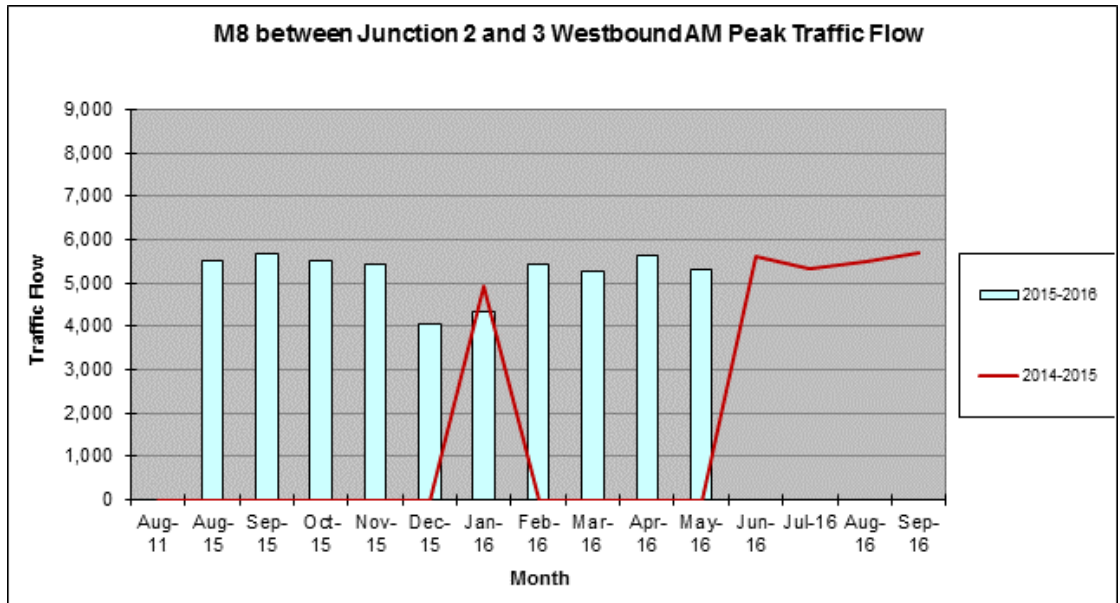


Figure 3-185 Monthly AM Peak Flows on the M8 between Junction 2 and 3 Westbound

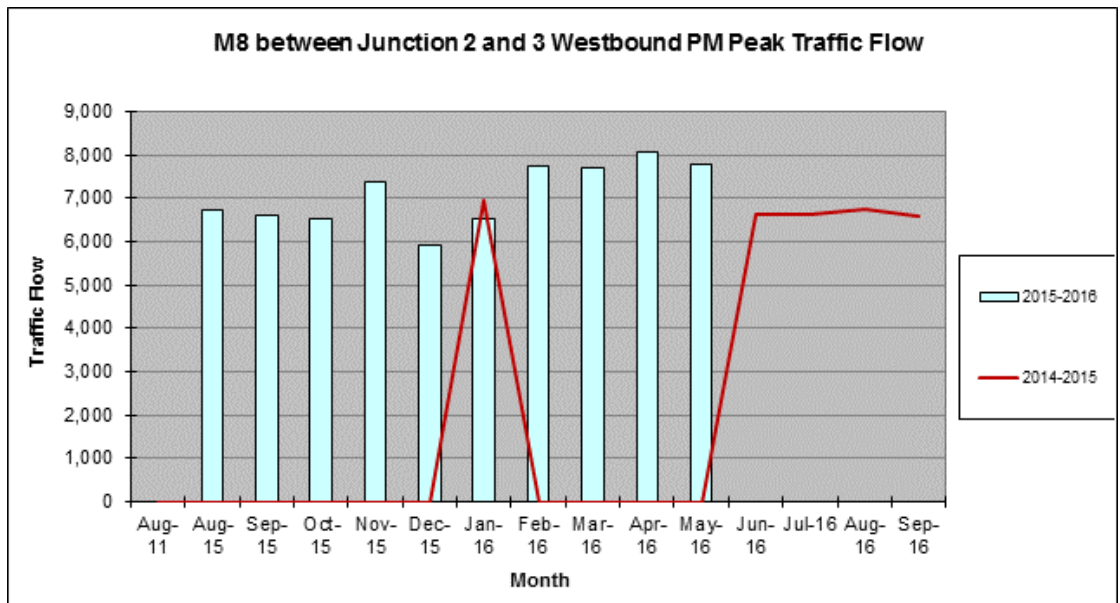


Figure 3-186 Monthly PM Peak Flows on the M8 between Junction 2 and 3 Westbound

### 3.44.3 Monthly Average HGV Flows

Table 3-139 Site: JTC00629 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	WB
JTC00629	M8 between Junction 2 and 3 Westbound	Aug-11	No Data
		Aug-15	1,836
		Sep-15	1,909
		Oct-15	1,849
		Nov-15	1,841
		Dec-15	1,248
		Jan-16	1,080
		Feb-16	1,405
		Mar-16	1,808
		Apr-16	1,864
		May-16	1,773
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data

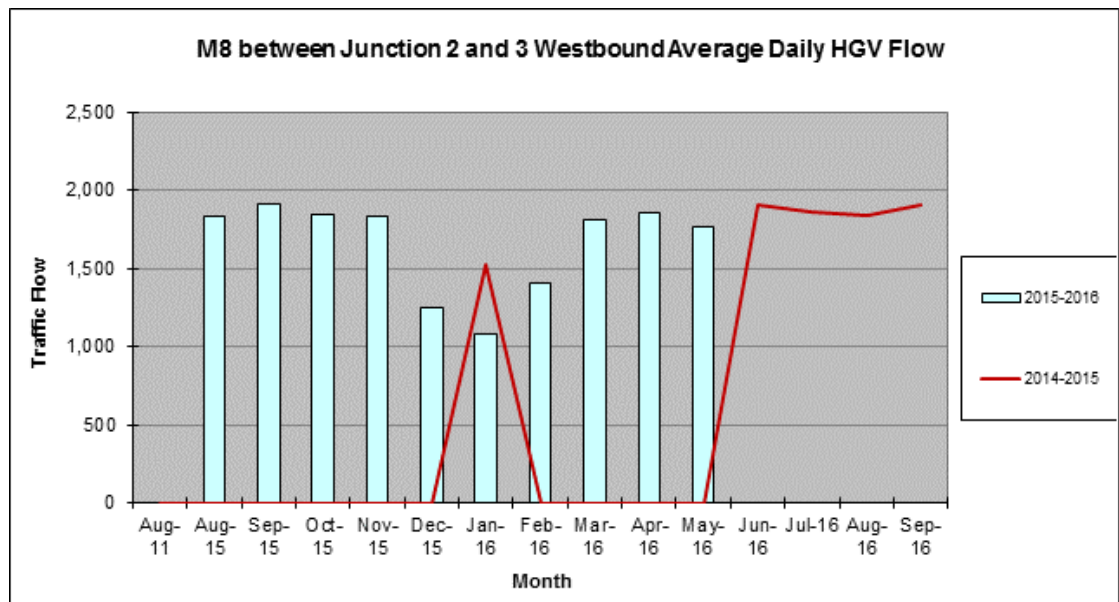
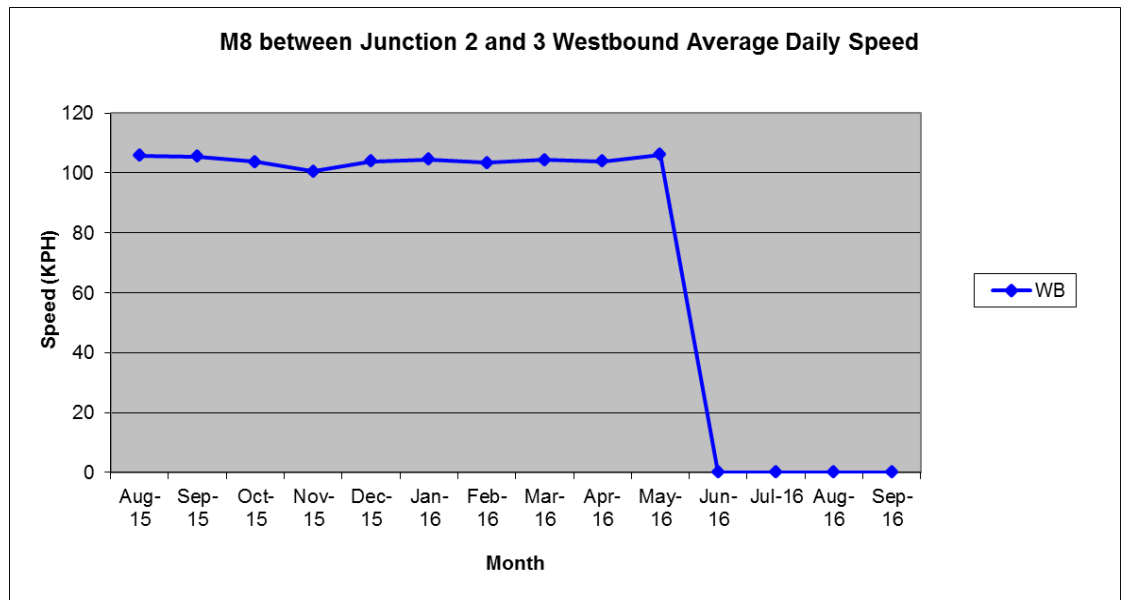


Figure 3-187 Monthly HGV Traffic Flows on the M8 between Junction 2 and 3 Westbound

### 3.44.4 Monthly Average All Vehicles Traffic Speeds

**Table 3-140 Site: JTC00629 Average Monthly Traffic Speeds (KPH) (All Vehicles) - August 2015 to September 2016**

Counter	Location	Date	WB
JTC00629	M8 between Junction 2 and 3 Westbound	Aug-15	106
		Sep-15	105
		Oct-15	104
		Nov-15	100
		Dec-15	104
		Jan-16	105
		Feb-16	103
		Mar-16	104
		Apr-16	104
		May-16	106
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data



**Figure 3-188 Average Monthly Traffic Speeds (KPH) on the M8 between Junction 2 and 3 Westbound**

## 4 A-Road Automatic Traffic Counter Data

### 4.1 Traffic Counter JTC00318 - A985 Rosyth (Admiralty Road West)

Summary of statistics between August 2015 and September 2016:

- Traffic flows follow a similar pattern to the previous monitoring period with the exceptions of December 2015, January 2016 and February 2016.
- FRB closure caused an increase in traffic as this counter is on the diversion route. The increase in HGVs remained into January 2016 and February 2016 due to the restrictions in place on the FRB.
- Counter changed from Euro6 vehicle classification system to CA10 classification system in April 2016, due to the NTDS system update (see section 2.3).
- No data is available for the baseline period, therefore comparisons cannot be made.

#### 4.1.1 Monthly Average Traffic Flows

**Table 4-1 Site: JTC00318 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00318	A985 Rosyth (Admiralty Road West)	Aug-11	No Data	No Data	No Data
		Aug-15	7,679	7,341	15,020
		Sep-15	7,316	7,112	14,428
		Oct-15	7,176	6,743	13,919
		Nov-15	6,855	6,409	13,263
		Dec-15	7,932	8,229	16,161
		Jan-16	6,740	6,483	13,223
		Feb-16	7,035	6,741	13,775
		Mar-16	7,104	6,667	13,771
		Apr-16	7,139	6,593	13,732
		May-16	7,089	6,629	13,718
		Jun-16	7,409	6,954	14,362
		Jul-16	7,124	6,617	13,740
		Aug-16	7,449	7,028	14,477
		Sep-16	7,097	6,865	13,962
		<b>Annual Average</b>	<b>7,216</b>	<b>6,876</b>	<b>14,093</b>

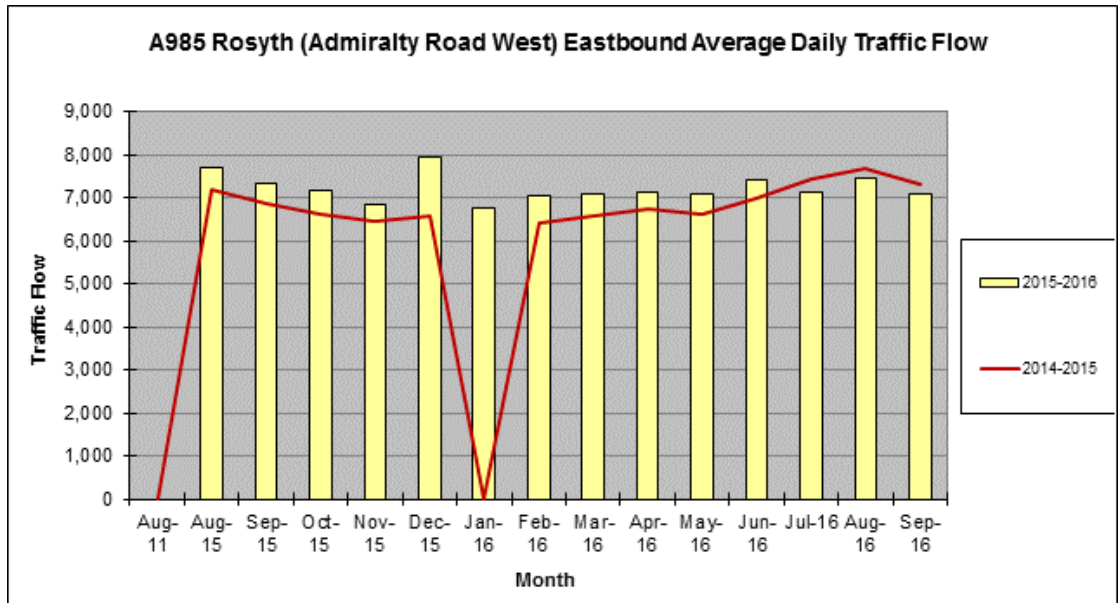


Figure 4-1 Monthly AADTs on the A985 Rosyth (Admiralty Road West)

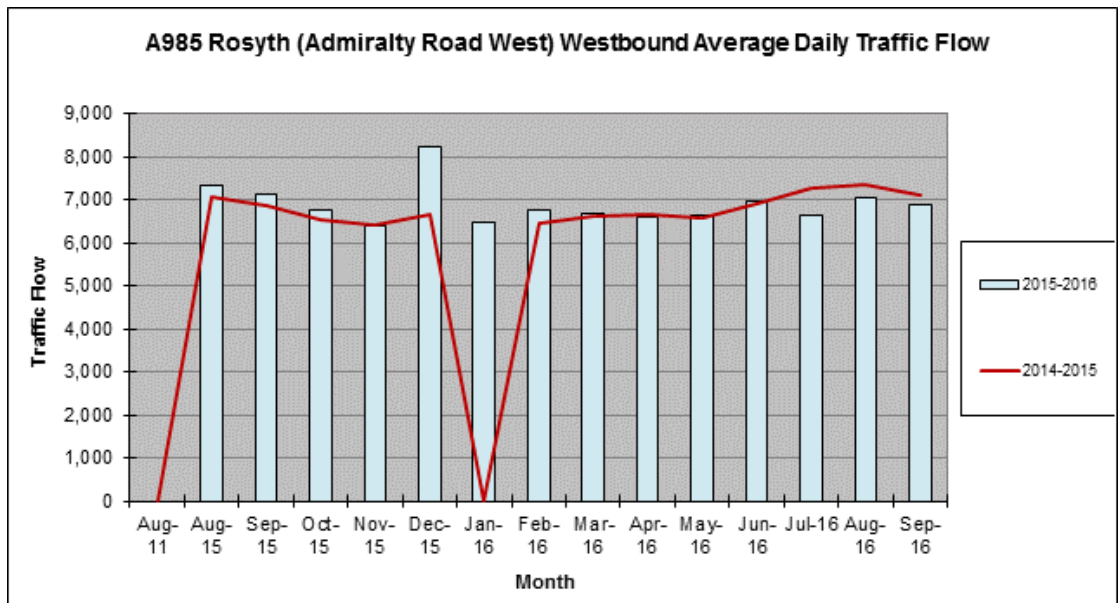


Figure 4-2 Monthly AADTs on the A985 Rosyth (Admiralty Road West)

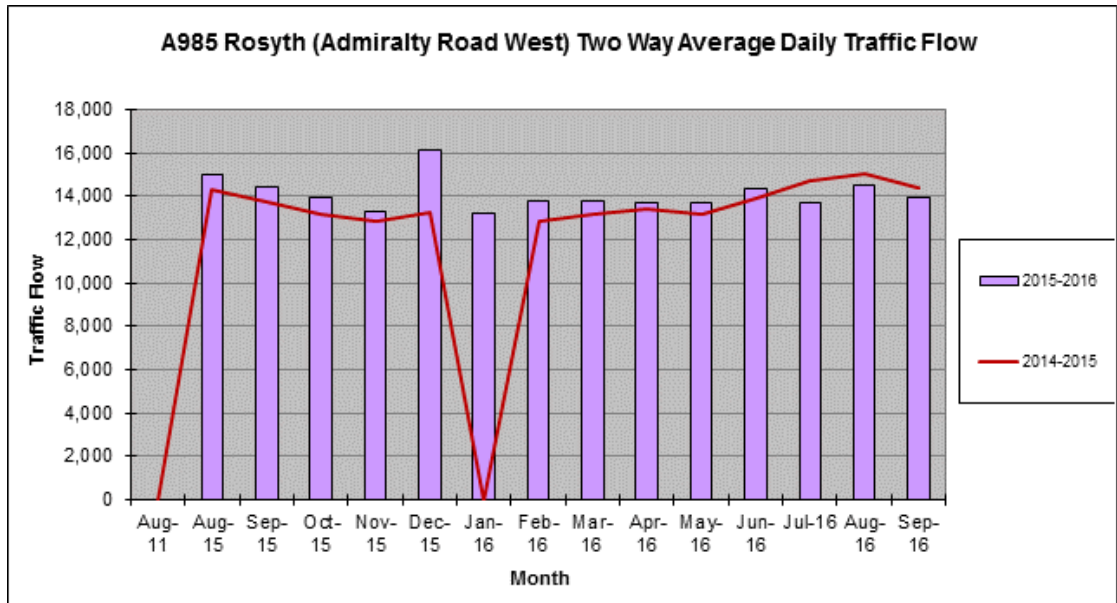


Figure 4-3 Monthly Two Way Daily Traffic Flows on the A985 Rosyth (Admiralty Road West)

#### 4.1.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-2 Site: JTC00318 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00318	A985 Rosyth (Admiralty Road West)	Aug-11	No Data	No Data
		Aug-15	2,566	3,492
		Sep-15	2,702	3,389
		Oct-15	2,492	3,214
		Nov-15	2,457	3,027
		Dec-15	2,478	3,234
		Jan-16	2,300	2,883
		Feb-16	2,454	3,043
		Mar-16	2,411	3,223
		Apr-16	2,335	3,187
		May-16	2,314	3,187
		Jun-16	2,546	3,318
		Jul-16	2,219	3,140
		Aug-16	2,477	3,307
		Sep-16	2,507	3,231
	<b>Annual Average</b>	<b>2,440</b>	<b>3,195</b>	



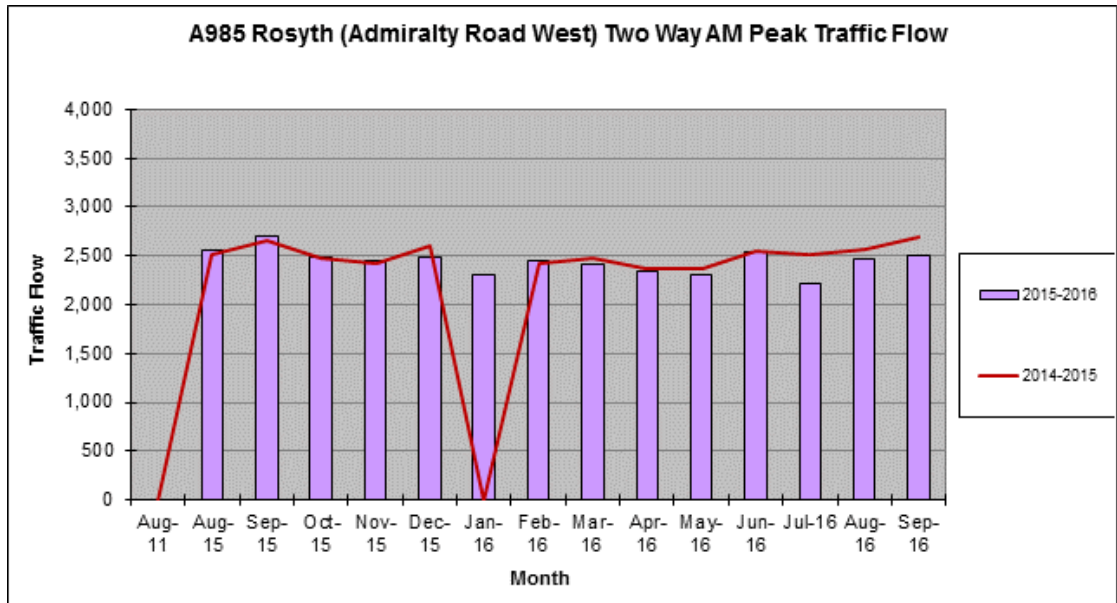


Figure 4-4 Monthly Two Way AM Peak Flows on the A985 Rosyth (Admiralty Road West)

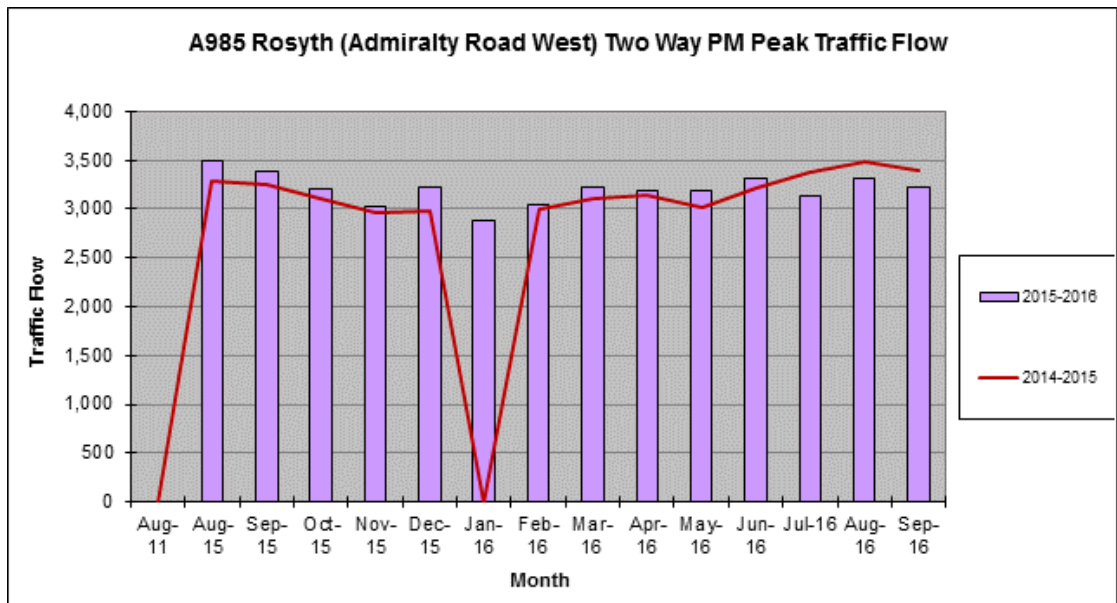


Figure 4-5 Monthly Two Way PM Peak Flows on the A985 Rosyth (Admiralty Road West)

### 4.1.3 Monthly Average HGV Flows

Table 4-3 Site: JTC00318 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00318	A985 Rosyth (Admiralty Road West)	Aug-11	No Data
		Aug-15	323
		Sep-15	399
		Oct-15	439
		Nov-15	410
		Dec-15	1,289
		Jan-16	1,285
		Feb-16	1,103
		Mar-16	407
		Apr-16	384
		May-16	371
		Jun-16	383
		Jul-16	297
		Aug-16	366
		Sep-16	404
		<b>Annual Average</b>	<b>591</b>

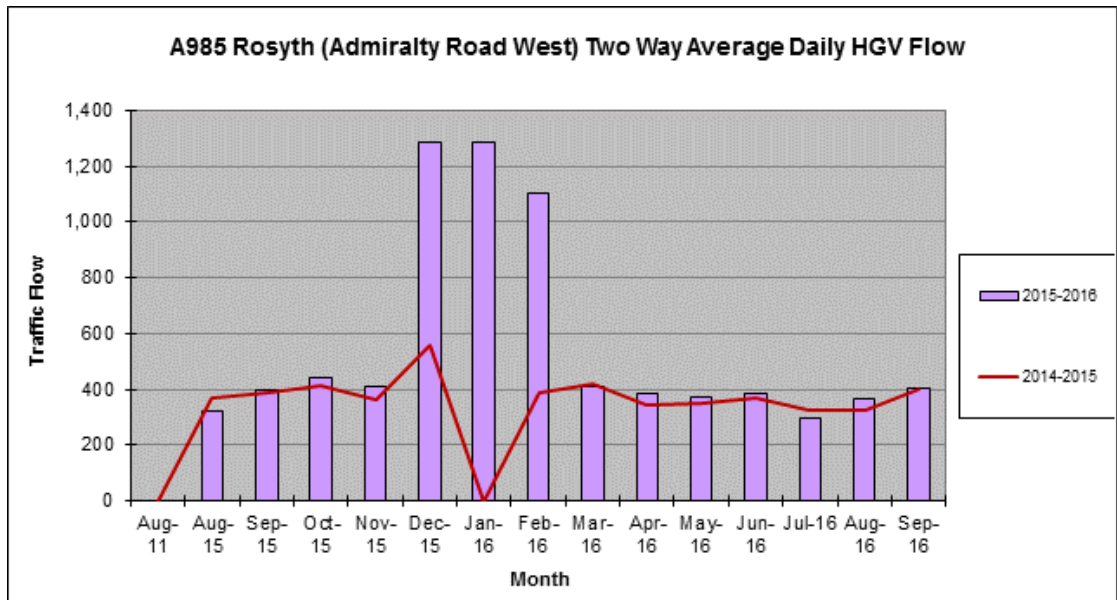
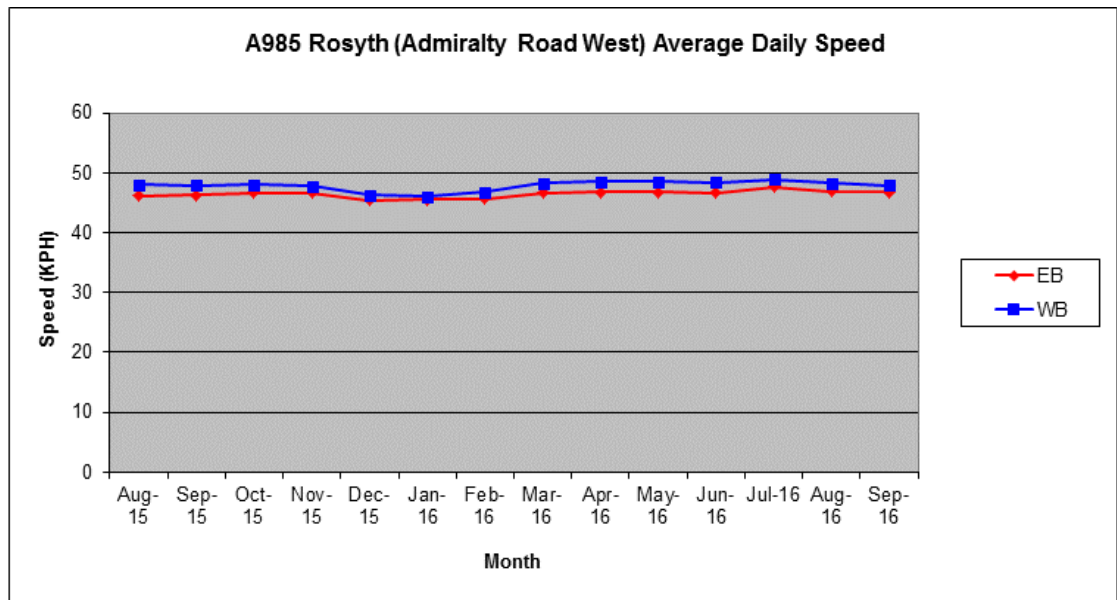


Figure 4-6 Monthly Two Way HGV Traffic Flows on the A985 Rosyth (Admiralty Road West)

### 4.1.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-4 Site: JTC00318 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00318	A985 Rosyth (Admiralty Road West)	Aug-15	46	48
		Sep-15	46	48
		Oct-15	47	48
		Nov-15	47	48
		Dec-15	45	46
		Jan-16	45	46
		Feb-16	46	47
		Mar-16	47	48
		Apr-16	47	49
		May-16	47	48
		Jun-16	47	48
		Jul-16	48	49
		Aug-16	47	48
		Sep-16	47	48



**Figure 4-7 Average Monthly Traffic Speeds (KPH) on the A985 Rosyth (Admiralty Road West)**

## 4.2 Traffic Counter JTC00570 - A985 Admiralty Road

Summary of statistics between August 2015 and September 2016:

- The FRB closure caused an increase in traffic in December 2015, as this counter is on the diversion route.
- No data is available for the baseline period, therefore comparisons cannot be made.

### 4.2.1 Monthly Average Traffic Flows

**Table 4-5 Site: JTC00570 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00570	A985 Admiralty Road	Aug-11	No Data	No Data	No Data
		Aug-15	8,593	7,694	16,287
		Sep-15	No Data	No Data	No Data
		Oct-15	8,024	6,933	14,957
		Nov-15	No Data	No Data	No Data
		Dec-15	9,359	8,991	18,351
		Jan-16	No Data	No Data	No Data
		Feb-16	No Data	No Data	No Data
		Mar-16	No Data	No Data	No Data
		Apr-16	8,411	7,391	15,802
		May-16	8,151	7,237	15,388
		Jun-16	8,596	7,750	16,346
		Jul-16	8,209	7,115	15,324
		Aug-16	8,844	7,726	16,570
		Sep-16	8,358	7,582	15,941
	<b>Annual Average</b>	<b>8,478</b>	<b>7,587</b>	<b>16,065</b>	

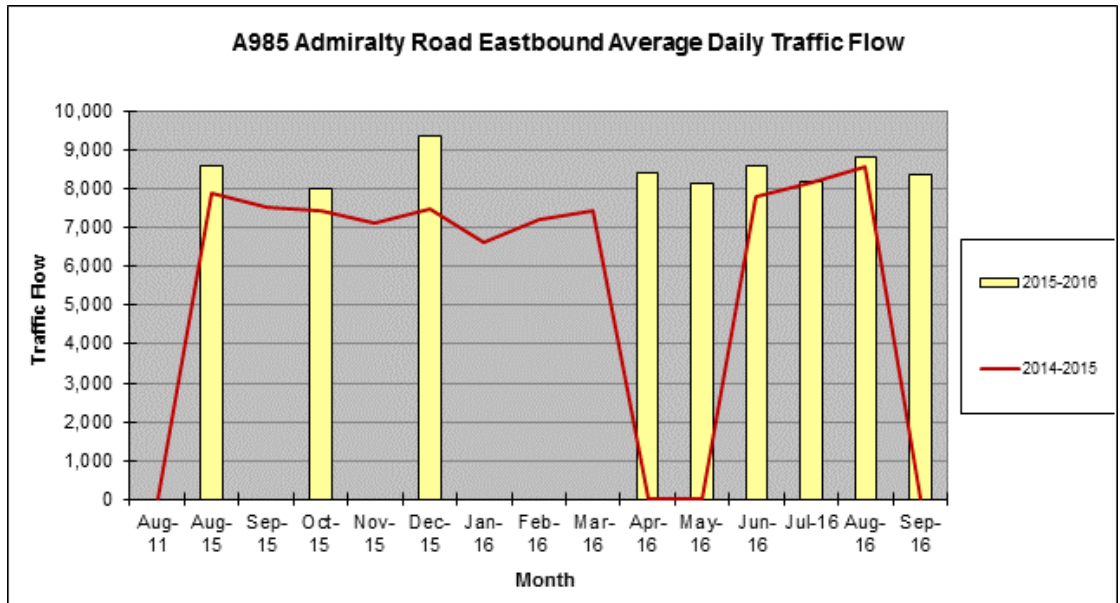


Figure 4-8 Monthly AADTs on the A985 Admiralty Road

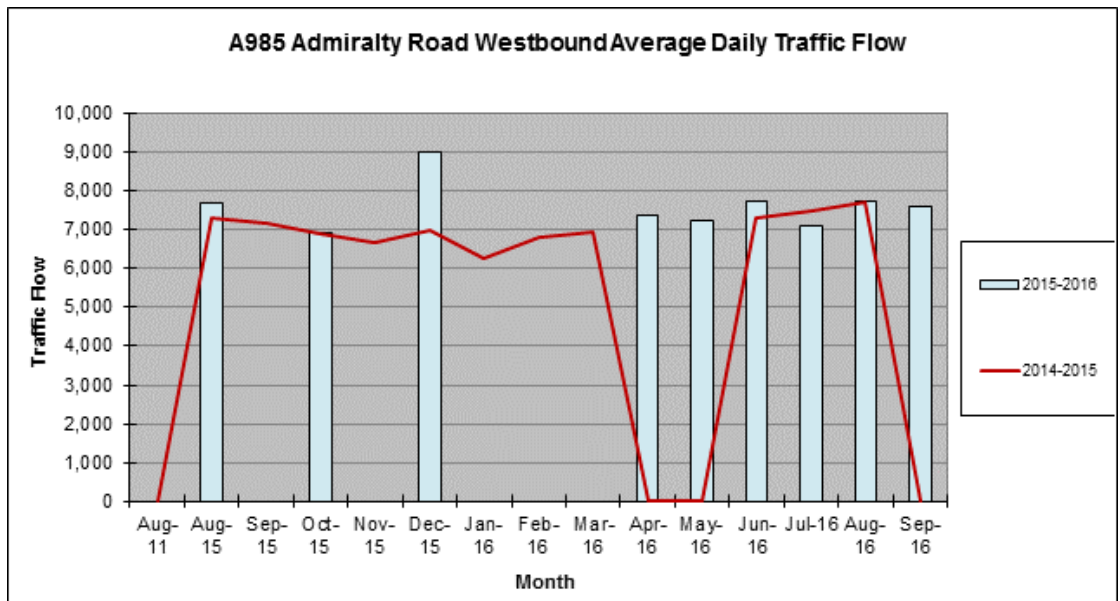


Figure 4-9 Monthly AADTs on the A985 Admiralty Road

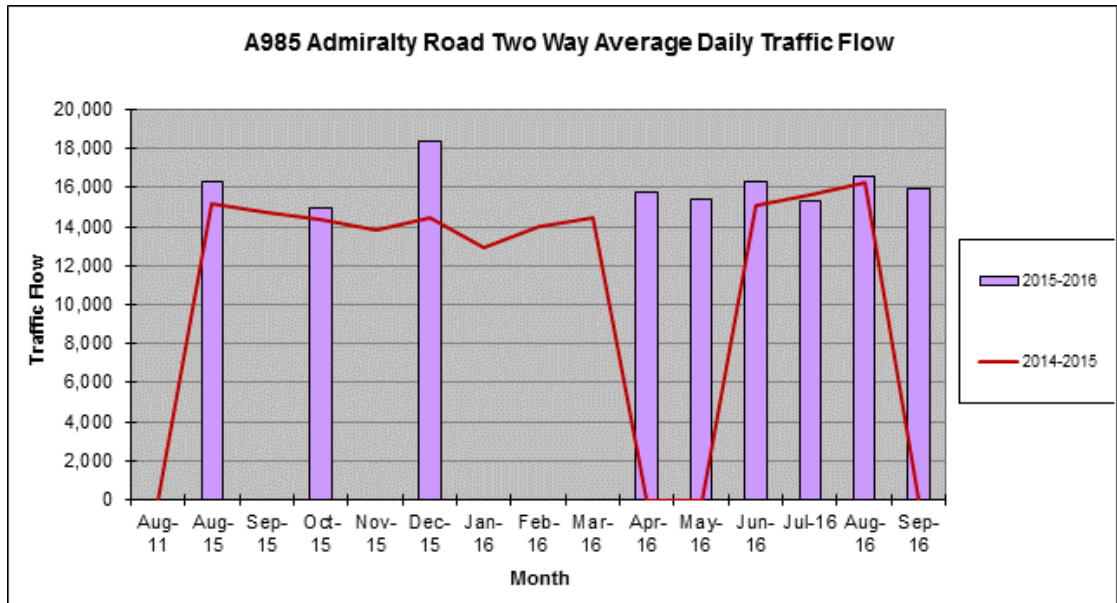


Figure 4-10 Monthly Two Way Daily Traffic Flows on the A985 Admiralty Road

#### 4.2.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-6 Site: JTC00570 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00570	A985 Admiralty Road	Aug-11	No Data	No Data
		Aug-15	2,695	3,722
		Sep-15	No Data	No Data
		Oct-15	2,669	3,388
		Nov-15	No Data	No Data
		Dec-15	2,817	3,658
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	2,724	3,569
		May-16	2,431	3,411
		Jun-16	2,934	3,686
		Jul-16	2,470	3,438
		Aug-16	2,799	3,693
		Sep-16	2,836	3,578
	<b>Annual Average</b>	<b>2,677</b>	<b>3,553</b>	

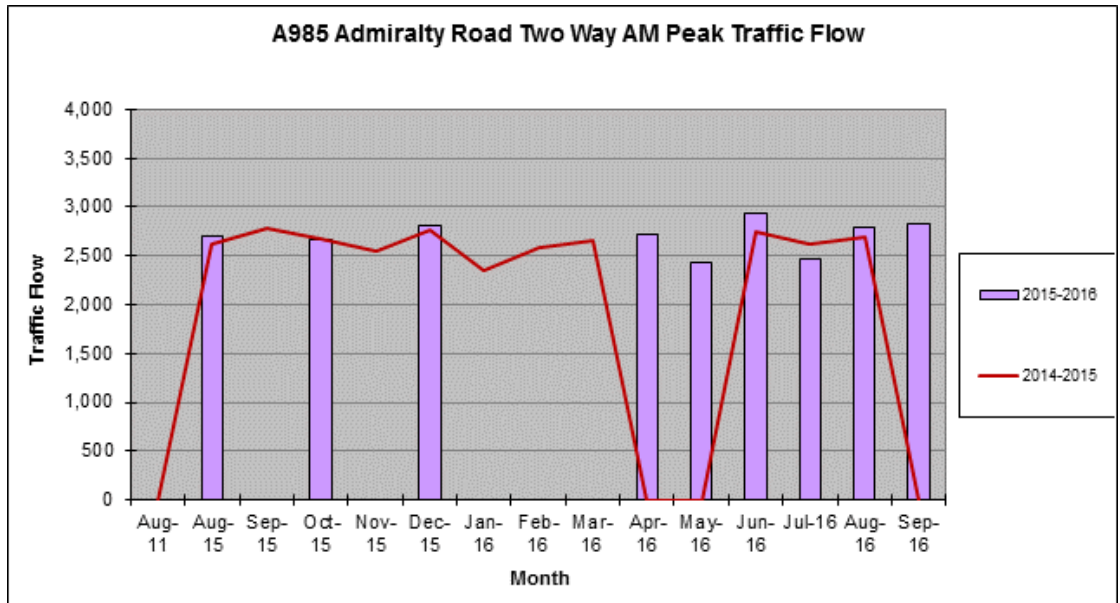


Figure 4-11 Monthly Two Way AM Peak Flows on the A985 Admiralty Road

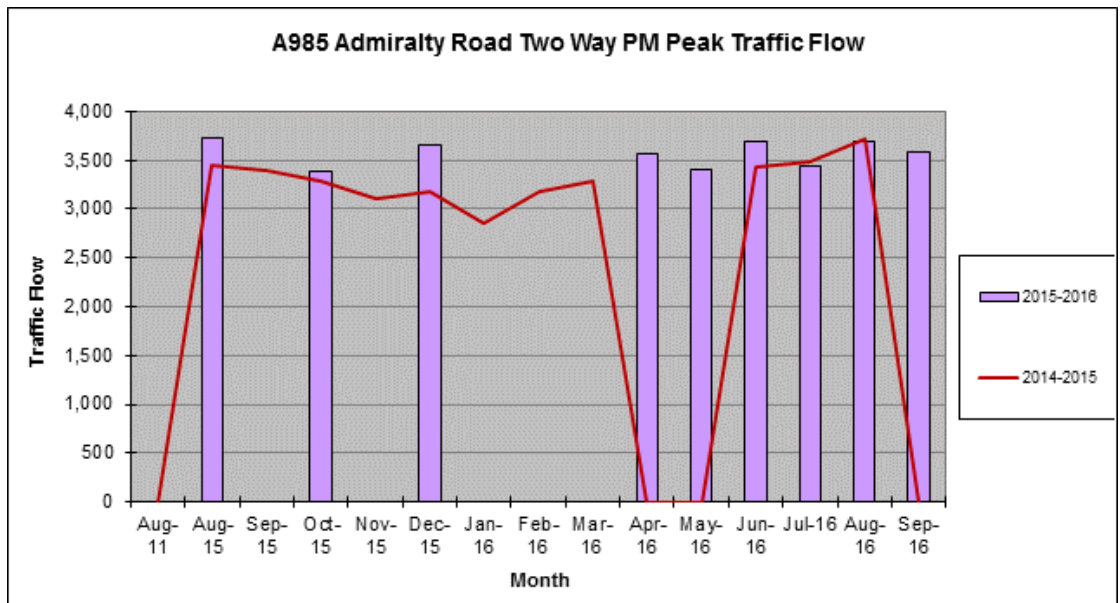


Figure 4-12 Monthly Two Way PM Peak Flows on the A985 Admiralty Road

### 4.2.3 Monthly Average HGV Flows

Table 4-7 Site: JTC00570 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00570	A985 Admiralty Road	Aug-11	No Data
		Aug-15	310
		Sep-15	No Data
		Oct-15	401
		Nov-15	No Data
		Dec-15	1,385
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	526
		May-16	472
		Jun-16	542
		Jul-16	352
		Aug-16	452
		Sep-16	499

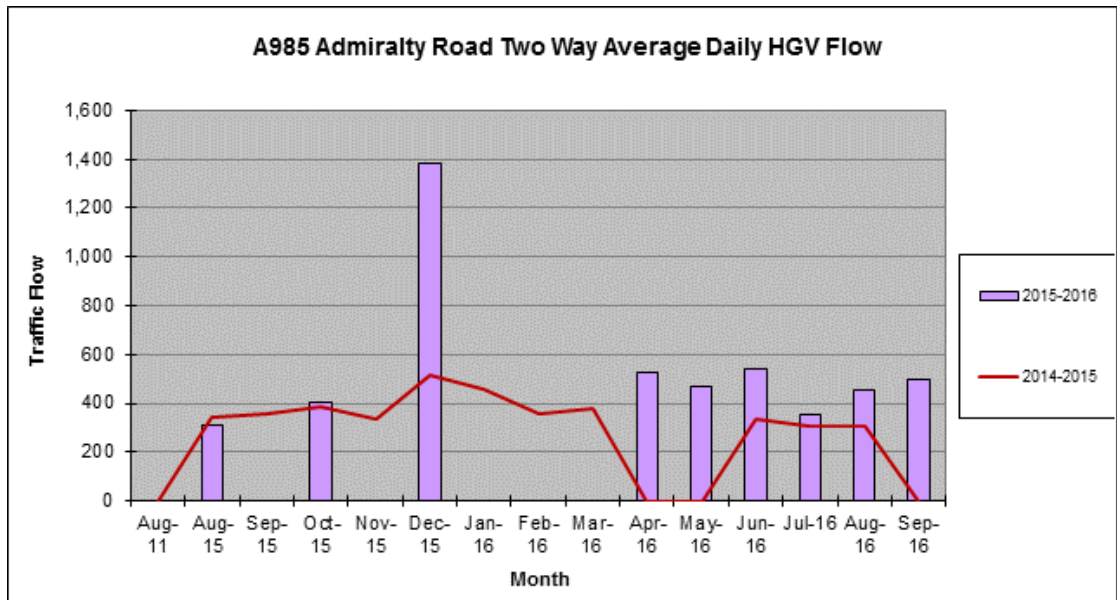


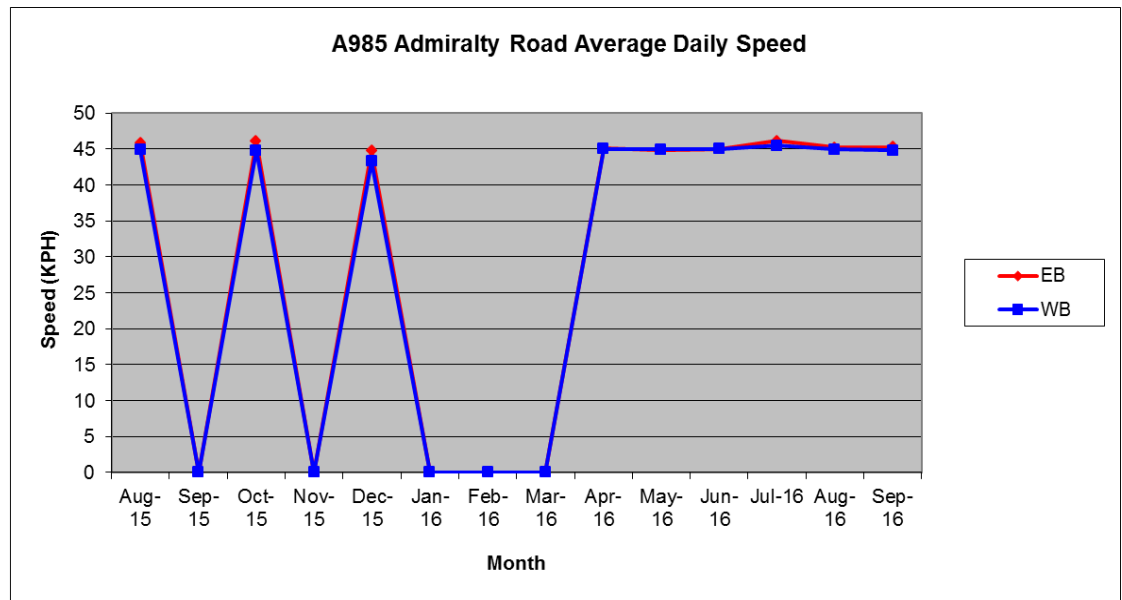
Figure 4-13 Monthly Two Way HGV Traffic Flows on the A985 Admiralty Road



### 4.2.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-8 Site: JTC00570 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00570	A985 Admiralty Road	Aug-15	46	45
		Sep-15	No Data	No Data
		Oct-15	46	45
		Nov-15	No Data	No Data
		Dec-15	45	43
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	45	45
		May-16	45	45
		Jun-16	45	45
		Jul-16	46	45
		Aug-16	45	45
		Sep-16	45	45



**Figure 4-14 Average Monthly Traffic Speeds (KPH) on the A985 Admiralty Road**

### 4.3 Traffic Counter JTC00395 - A904 (East of Newton)

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows are lower than the 2011 baseline.
- Traffic flows follow a similar pattern to the previous monitoring period, with the exceptions of December 2015 and July 2016.
- Lower traffic flows in July 2016 due to resurfacing work near B8046.
- Counter changed from Euro6 vehicle classification system to CA10 classification system in April 2016, due to the NTDS system update (see section 2.3).

#### 4.3.1 Monthly Average Traffic Flows

*Table 4-9 Site: JTC00395 Annual Traffic Flows - August 2015 to September 2016*

Counter	Location	Date	EB	WB	Two Way
JTC00395	A904 (East of Newton)	Aug-11	6,746	7,058	13,804
		Aug-15	6,175	6,215	12,390
		Sep-15	5,956	6,114	12,070
		Oct-15	5,672	5,825	11,497
		Nov-15	5,577	5,578	11,154
		Dec-15	4,295	4,732	9,027
		Jan-16	5,013	5,146	10,159
		Feb-16	5,647	5,702	11,348
		Mar-16	5,788	5,913	11,701
		Apr-16	5,741	5,887	11,629
		May-16	6,097	6,393	12,490
		Jun-16	6,338	6,361	12,699
		Jul-16	5,389	5,687	11,075
		Aug-16	6,116	6,216	12,332
		Sep-16	6,044	6,100	12,143
		<b>Annual Average</b>	<b>5,641</b>	<b>5,796</b>	<b>11,437</b>

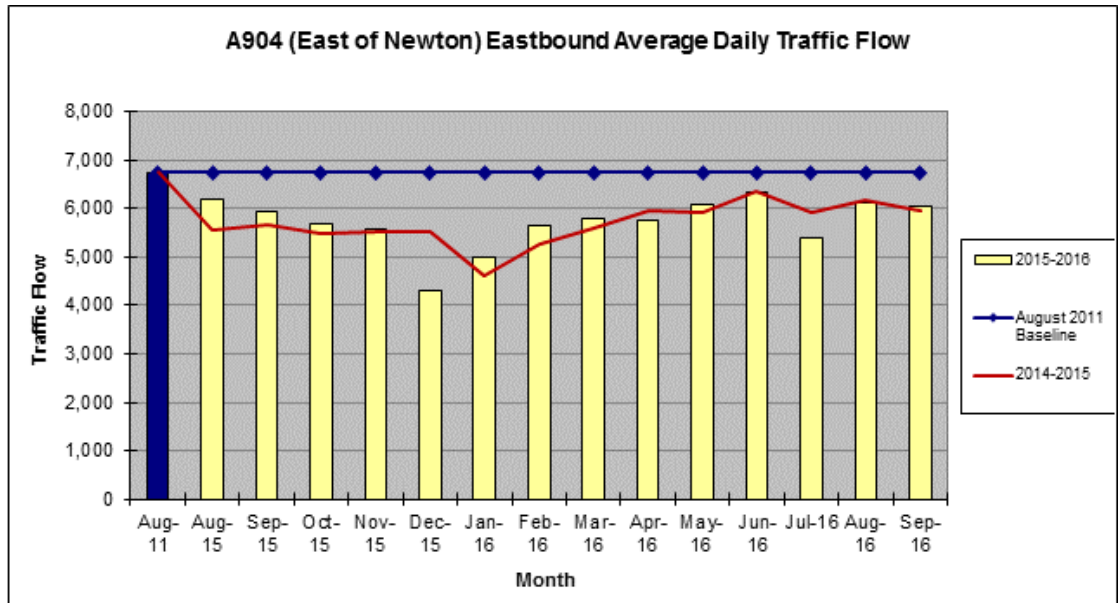


Figure 4-15 Monthly AADTs on the A904 (East of Newton)

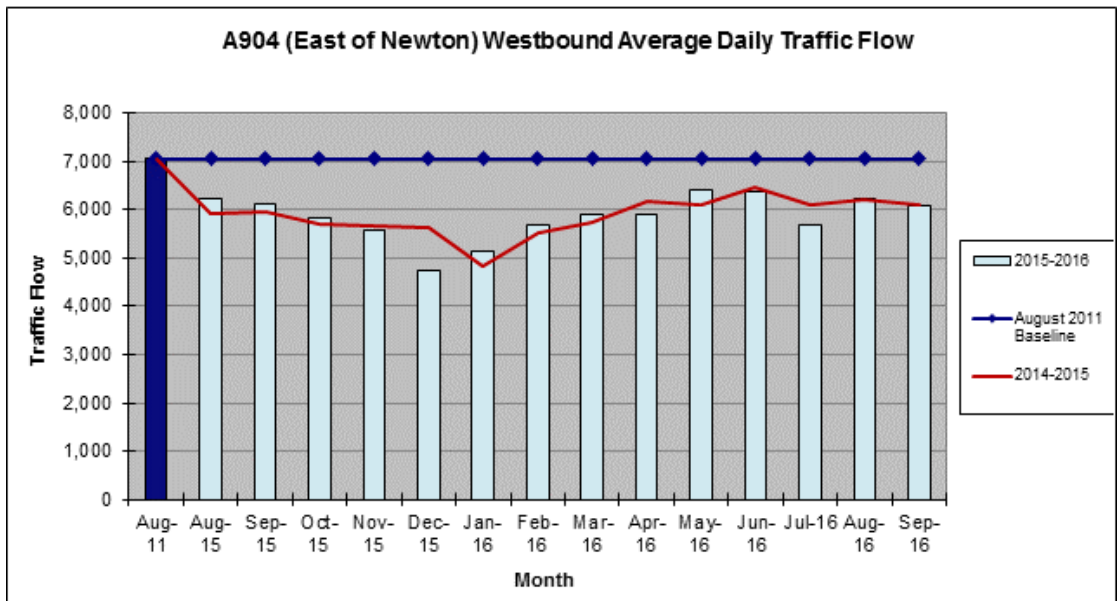


Figure 4-16 Monthly AADTs on the A904 (East of Newton)

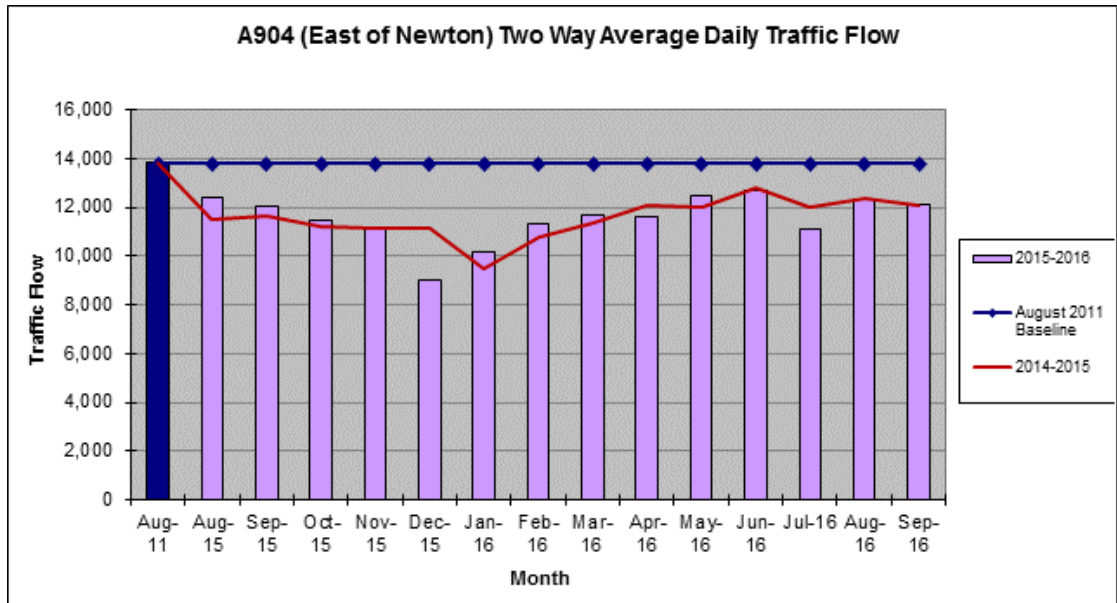


Figure 4-17 Monthly Two Way Daily Traffic Flows on the A904 (East of Newton)

### 4.3.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-10 Site: JTC00395 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00395	A904 (East of Newton)	Aug-11	2,680	3,556
		Aug-15	2,274	3,184
		Sep-15	2,490	3,220
		Oct-15	2,393	2,993
		Nov-15	2,423	2,871
		Dec-15	1,679	2,024
		Jan-16	2,165	2,593
		Feb-16	2,538	2,921
		Mar-16	2,413	3,030
		Apr-16	2,166	3,077
		May-16	2,360	3,241
		Jun-16	2,546	3,199
		Jul-16	1,838	2,825
		Aug-16	2,344	3,190
		Sep-16	2,495	3,123
	<b>Annual Average</b>	<b>2,274</b>	<b>2,932</b>	

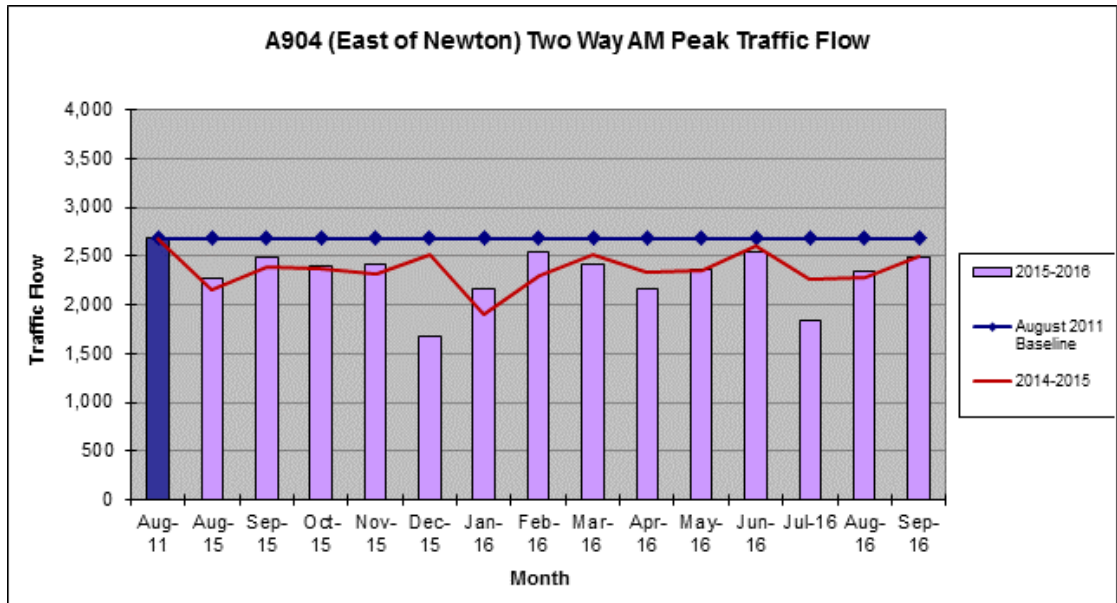


Figure 4-18 Monthly Two Way AM Peak Flows on the A904 (East of Newton)

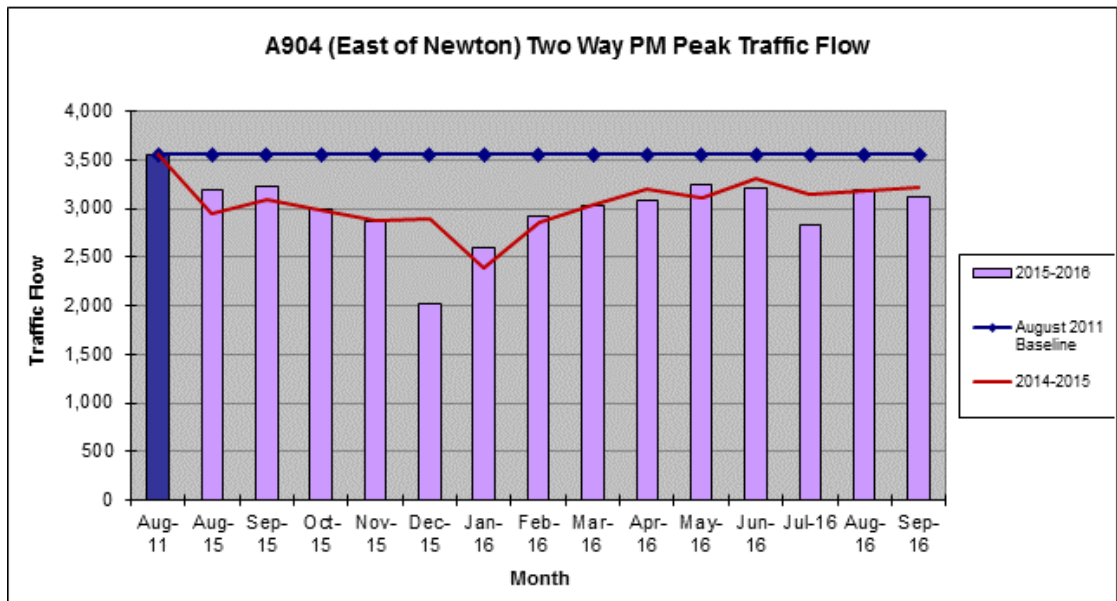


Figure 4-19 Monthly Two Way PM Peak Flows on the A904 (East of Newton)

### 4.3.3 Monthly Average HGV Flows

Table 4-11 Site: JTC00395 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00395	A904 (East of Newton)	Aug-11	481
		Aug-15	176
		Sep-15	168
		Oct-15	175
		Nov-15	163
		Dec-15	107
		Jan-16	85
		Feb-16	114
		Mar-16	158
		Apr-16	153
		May-16	169
		Jun-16	184
		Jul-16	146
		Aug-16	180
		Sep-16	181
		<b>Annual Average</b>	<b>150</b>

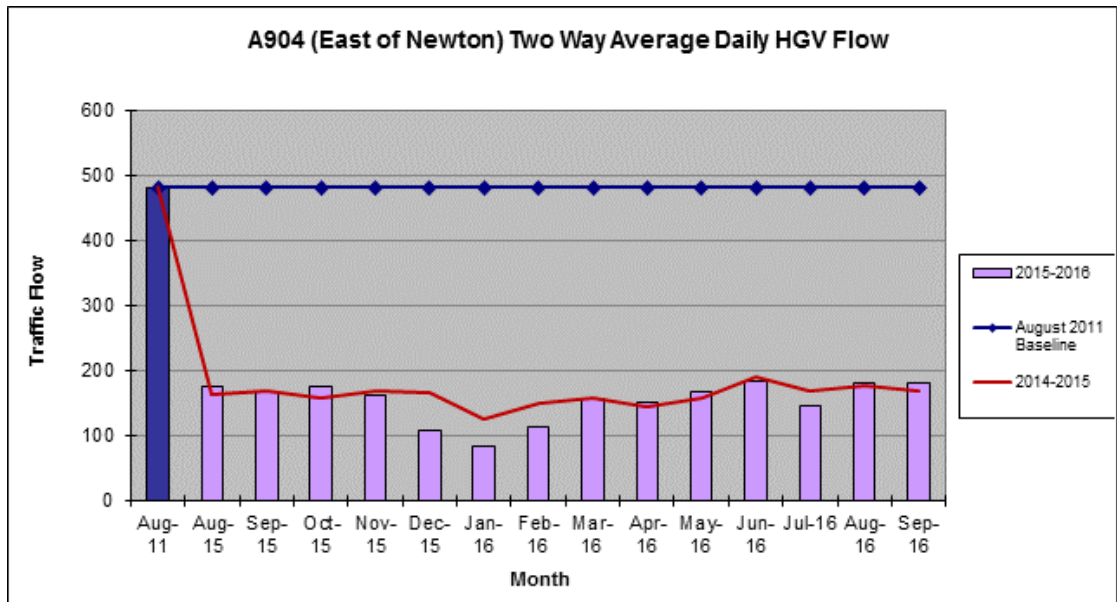
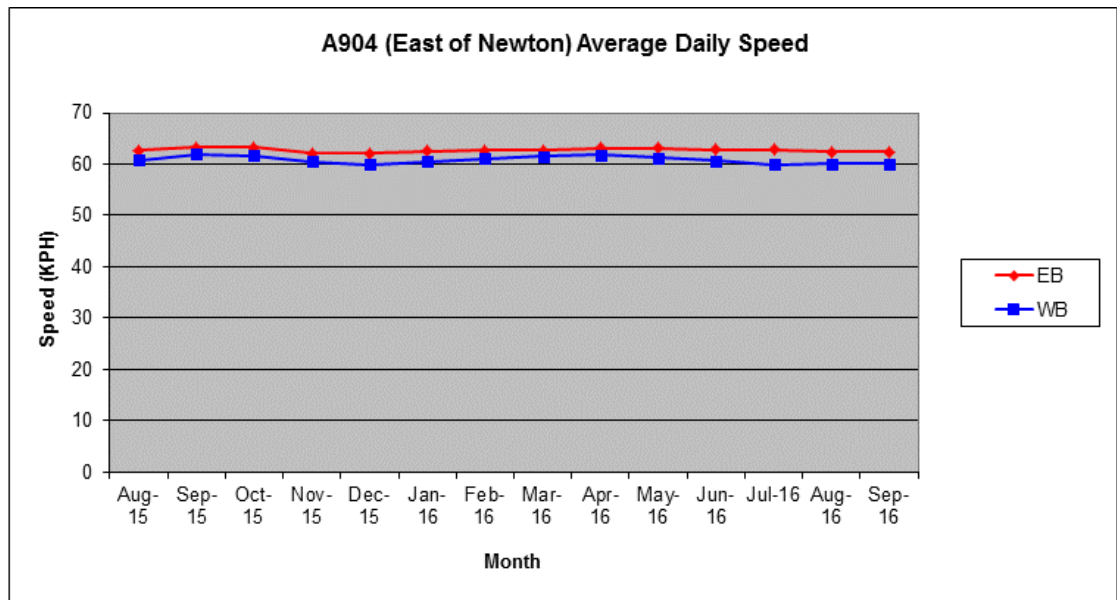


Figure 4-20 Monthly Two Way HGV Traffic Flows on the A904 (East of Newton)

### 4.3.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-12 Site: JTC00395 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00395	A904 (East of Newton)	Aug-15	63	61
		Sep-15	63	62
		Oct-15	63	62
		Nov-15	62	60
		Dec-15	62	60
		Jan-16	63	61
		Feb-16	63	61
		Mar-16	63	62
		Apr-16	63	62
		May-16	63	61
		Jun-16	63	61
		Jul-16	63	60
		Aug-16	62	60
		Sep-16	62	60



**Figure 4-21 Average Monthly Traffic Speeds (KPH) on the A904 (East of Newton)**

#### 4.4 Traffic Counter JTC00507 - A876 Clackmannanshire Bridge (South)

Summary of statistics between August 2015 and September 2016:

- Counter battery was replaced in November 2015 but intermittent problems have been experienced since then. Despite receiving maintenance, the counter is not recording a sufficient sample to be representative of each month.

##### 4.4.1 Monthly Average Traffic Flows

**Table 4-13 Site: JTC00507 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00507	A876 Clackmannanshire Bridge (South)	Aug-11	7,998	7,990	15,988
		Aug-15	9,400	9,253	18,653
		Sep-15	9,718	9,524	19,242
		Oct-15	9,206	8,851	18,056
		Nov-15	No Data	No Data	No Data
		Dec-15	No Data	No Data	No Data
		Jan-16	No Data	No Data	No Data
		Feb-16	No Data	No Data	No Data
		Mar-16	No Data	No Data	No Data
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	No Data	No Data	No Data
		Jul-16	No Data	No Data	No Data
		Aug-16	No Data	No Data	No Data
		Sep-16	No Data	No Data	No Data
		<b>Annual Average</b>	<b>9,441</b>	<b>9,209</b>	<b>18,650</b>



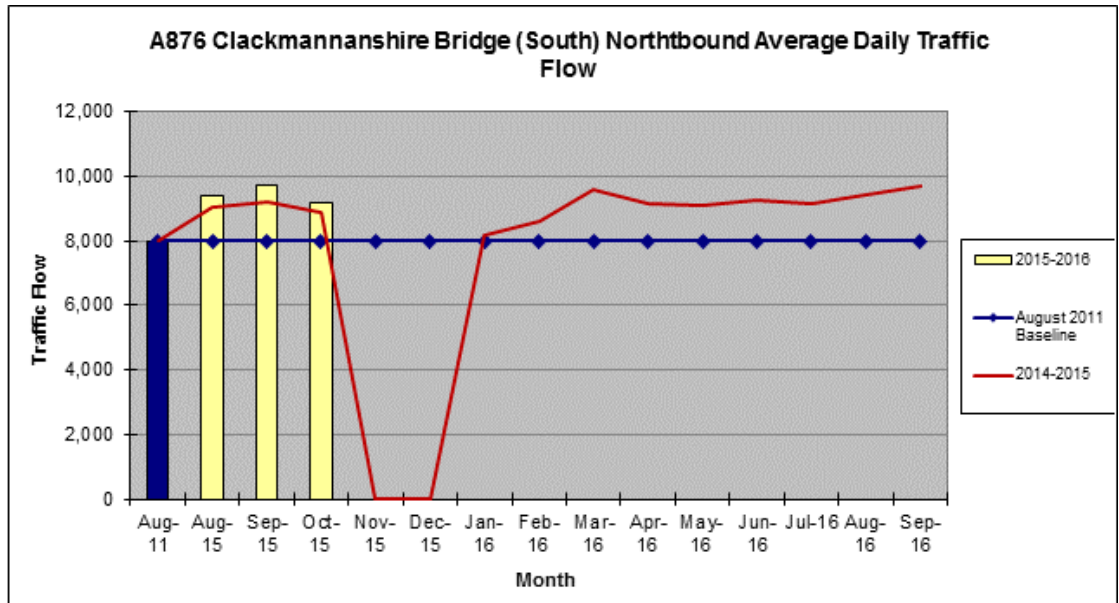


Figure 4-22 Monthly AADTs on the A876 Clackmannanshire Bridge (South)

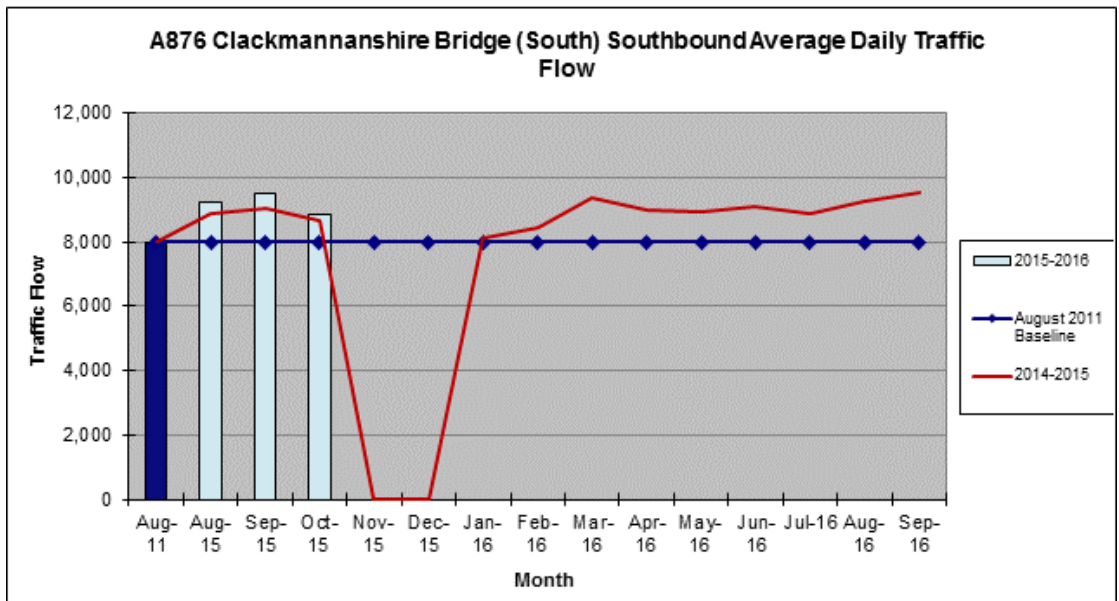


Figure 4-23 Monthly AADTs on the A876 Clackmannanshire Bridge (South)

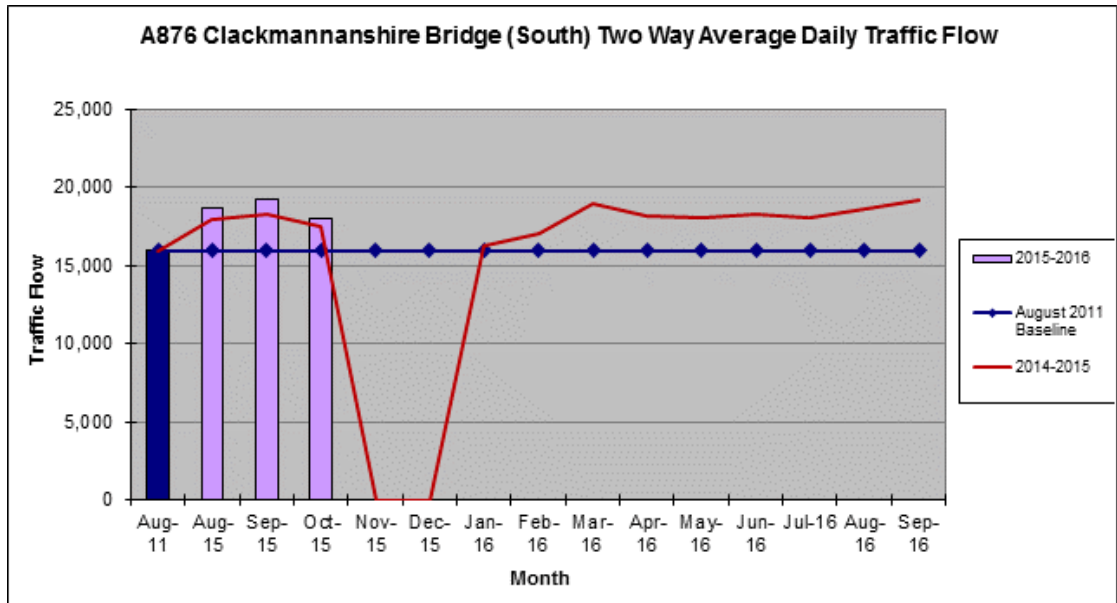


Figure 4-24 Monthly Two Way Daily Traffic Flows on the A876 Clackmannanshire Bridge (South)

#### 4.4.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-14 Site: JTC00507 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00507	A876 Clackmannanshire Bridge (South)	Aug-11	3,223	3,944
		Aug-15	3,277	3,576
		Sep-15	3,535	3,484
		Oct-15	3,139	3,332
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>3,317</b>	<b>3,464</b>	

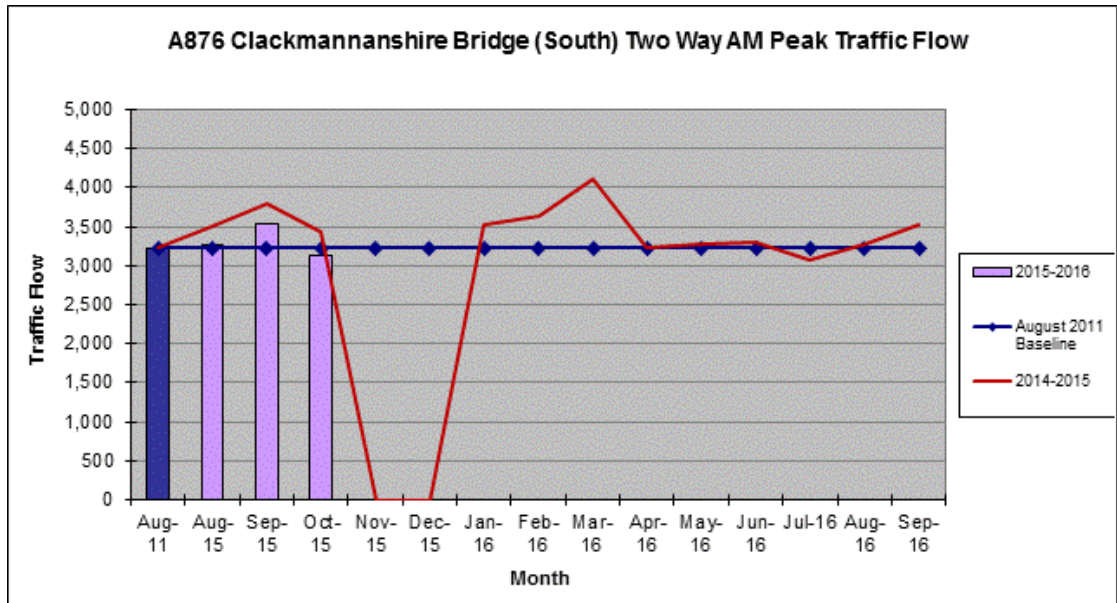


Figure 4-25 Monthly Two Way AM Peak Flows on the A876 Clackmannanshire Bridge (South)

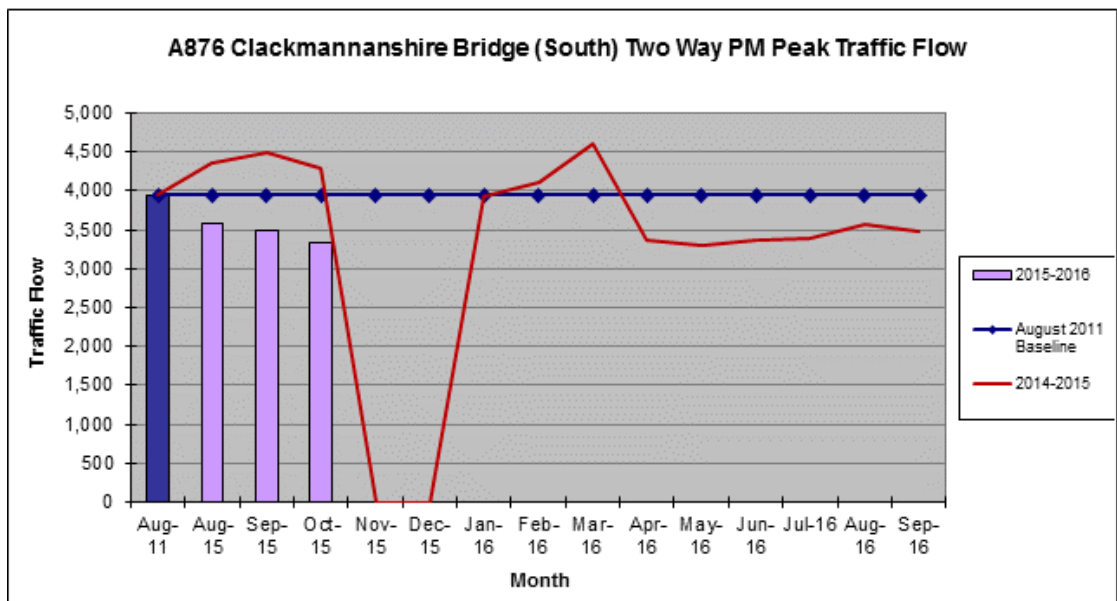


Figure 4-26 Monthly Two Way PM Peak Flows on the A876 Clackmannanshire Bridge (South)

### 4.4.3 Monthly Average HGV Flows

Table 4-15 Site: JTC00507 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00507	A876 Clackmannanshire Bridge (South)	Aug-11	585
		Aug-15	635
		Sep-15	734
		Oct-15	723
		Nov-15	No Data
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	<b>697</b>

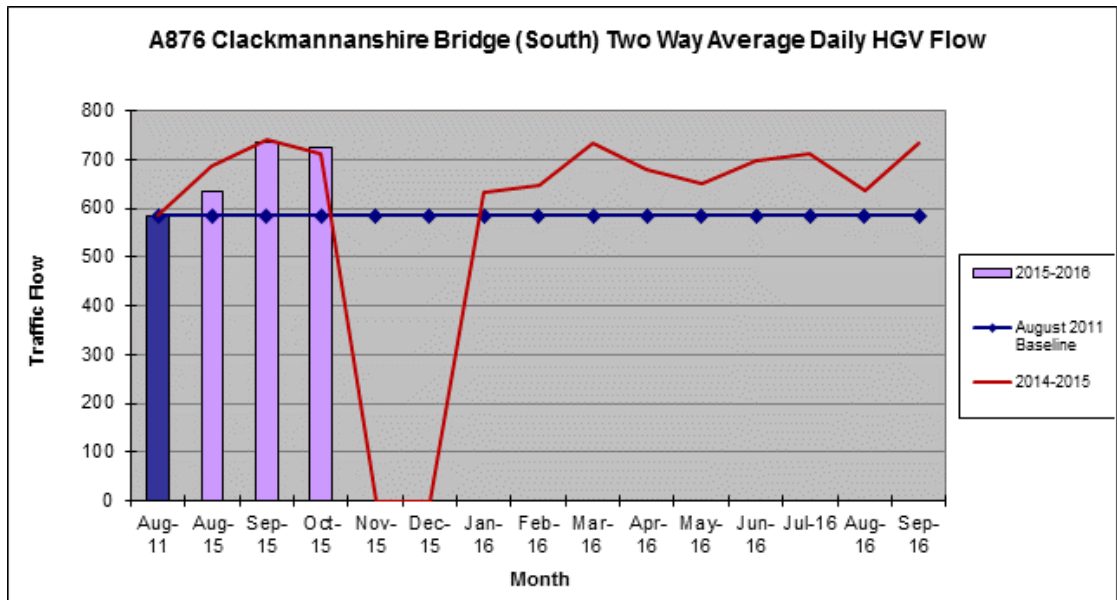
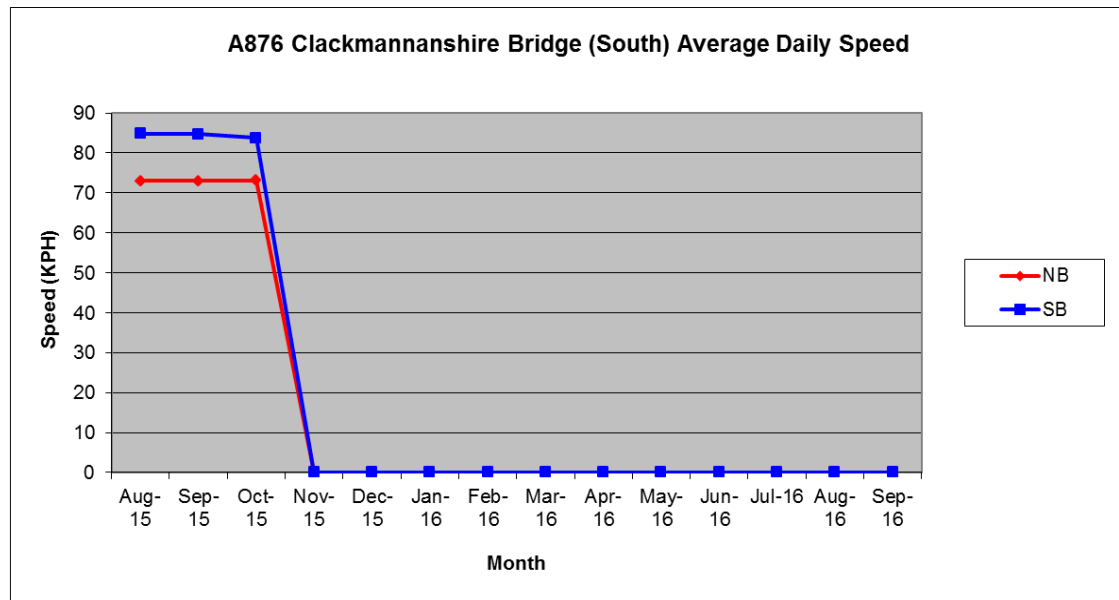


Figure 4-27 Monthly Two Way HGV Traffic Flows on the A876 Clackmannanshire Bridge (South)

#### 4.4.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-16 Site: JTC00507 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00507	A876 Clackmannanshire Bridge (South)	Aug-15	73	85
		Sep-15	73	85
		Oct-15	73	84
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data



**Figure 4-28 Average Monthly Traffic Speeds (KPH) on the A876 Clackmannanshire Bridge (South)**

#### 4.5 Traffic Counter JTC00573 - A91 between A905 and A907 Junctions

Summary of statistics between August 2015 and September 2016:

- Flows are similar to the previous monitoring period and the 2011 baseline with the exceptions of December 2015 and January 2016.
- FRB closure in December 2015 caused an increase in traffic, as this counter is on one of the diversion routes.

##### 4.5.1 Monthly Average Traffic Flows

**Table 4-17 Site: JTC00573 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00573	A91 between A905 and A907 Junctions	Aug-11	12,351	12,272	24,623
		Aug-15	12,137	12,289	24,426
		Sep-15	12,572	12,464	25,037
		Oct-15	12,401	12,300	24,701
		Nov-15	12,290	12,378	24,669
		Dec-15	13,303	14,530	27,832
		Jan-16	10,041	10,154	20,195
		Feb-16	12,316	12,463	24,779
		Mar-16	12,717	12,785	25,502
		Apr-16	12,333	12,393	24,726
		May-16	No Data	No Data	No Data
		Jun-16	12,558	12,591	25,149
		Jul-16	11,694	11,658	23,352
		Aug-16	12,579	12,630	25,209
		Sep-16	12,802	12,810	25,612
	<b>Annual Average</b>	<b>12,215</b>	<b>12,364</b>	<b>24,579</b>	

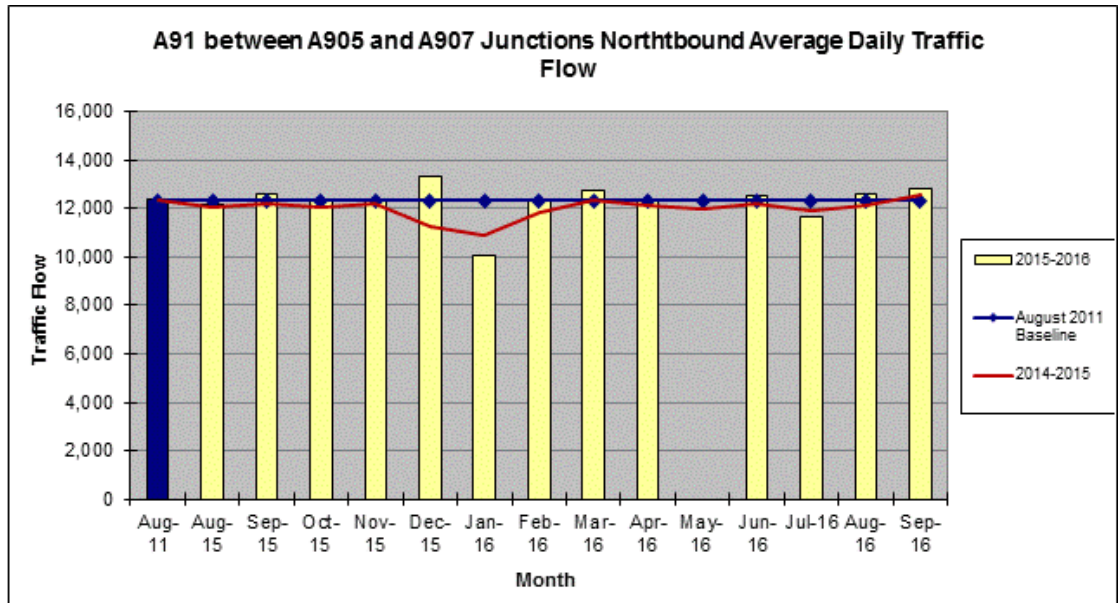


Figure 4-29 Monthly AADTs on the A91 between A905 and A907 Junctions

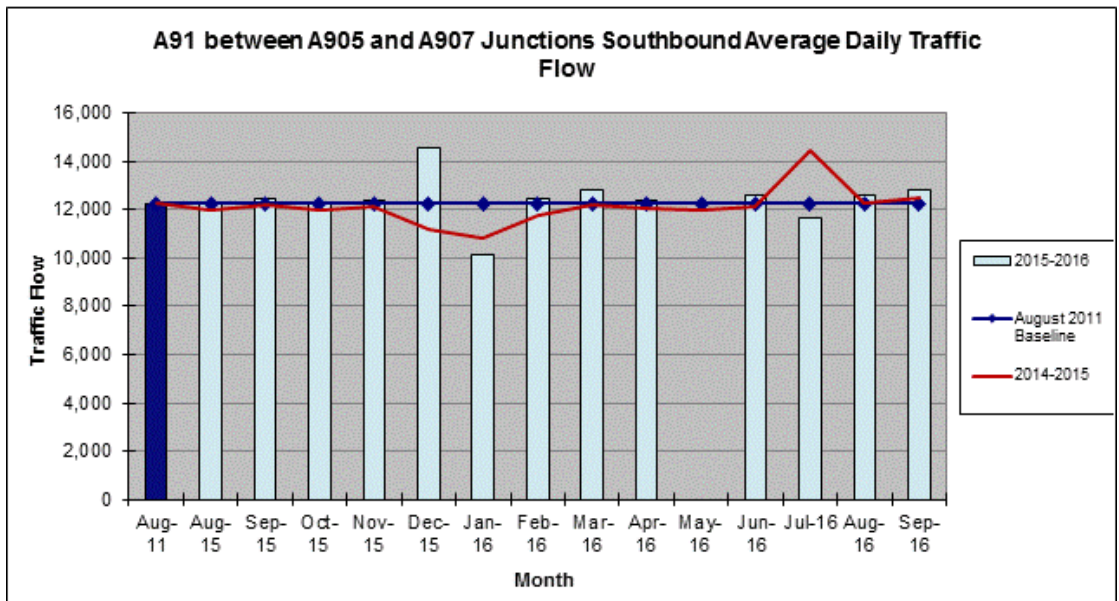


Figure 4-30 Monthly AADTs on the A91 between A905 and A907 Junctions

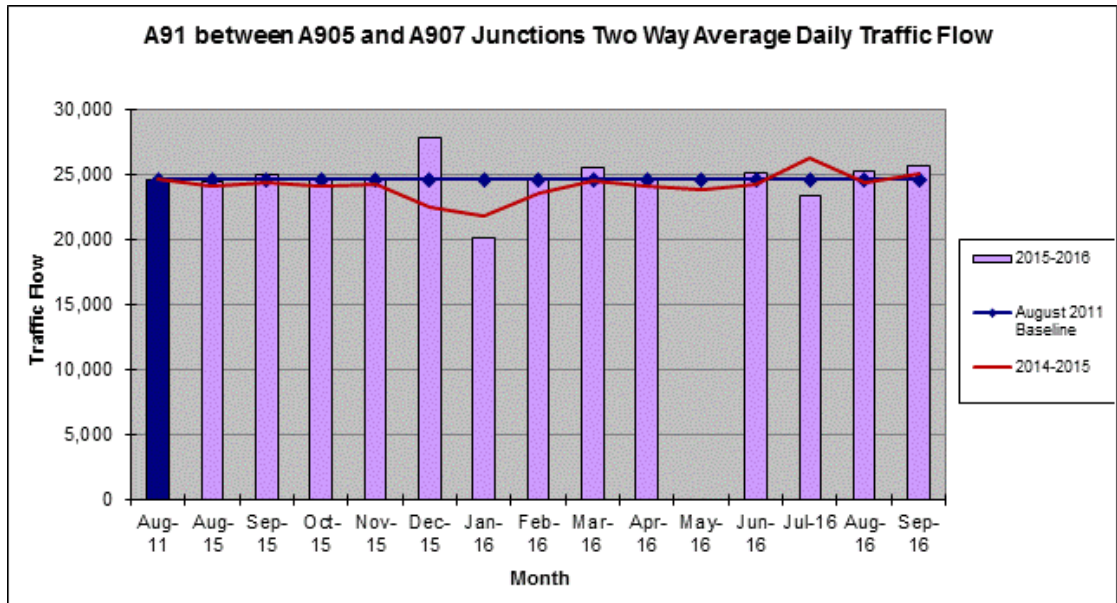


Figure 4-31 Monthly Two Way Daily Traffic Flows on the A91 between A905 and A907 Junctions

#### 4.5.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-18 Site: JTC00573 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00573	A91 between A905 and A907 Junctions	Aug-11	4,182	5,788
		Aug-15	4,197	5,613
		Sep-15	4,742	5,883
		Oct-15	4,374	5,848
		Nov-15	3,816	6,195
		Dec-15	4,305	6,662
		Jan-16	2,635	5,083
		Feb-16	3,931	6,249
		Mar-16	4,061	6,329
		Apr-16	4,460	5,626
		May-16	No Data	No Data
		Jun-16	4,693	5,737
		Jul-16	3,888	5,291
		Aug-16	4,438	5,806
		Sep-16	4,857	5,942
	<b>Annual Average</b>	<b>4,100</b>	<b>5,865</b>	



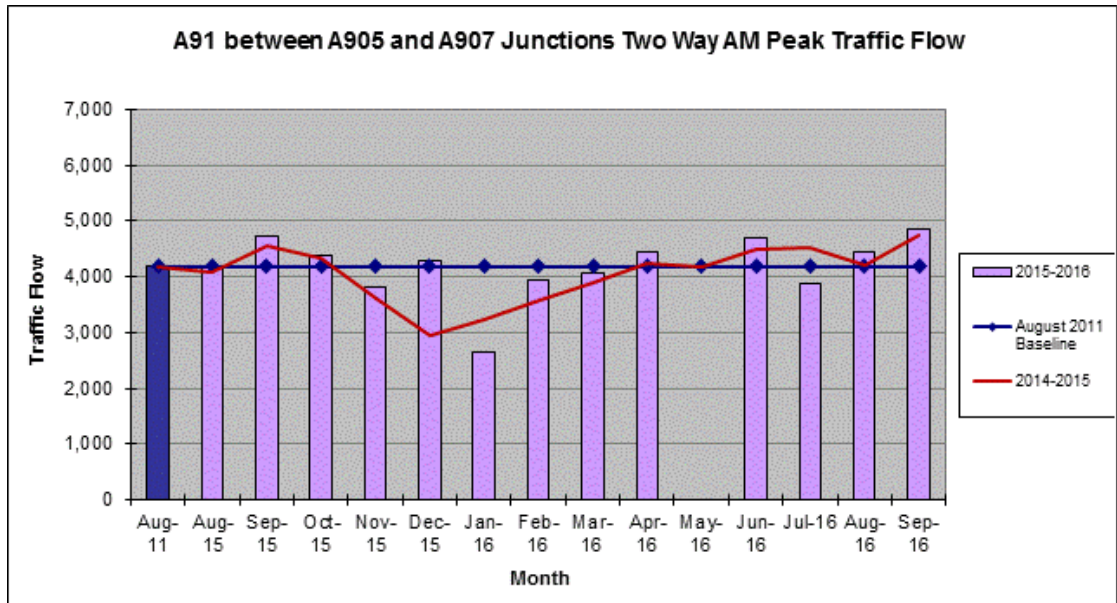


Figure 4-32 Monthly Two Way AM Peak Flows on the A91 between A905 and A907 Junctions

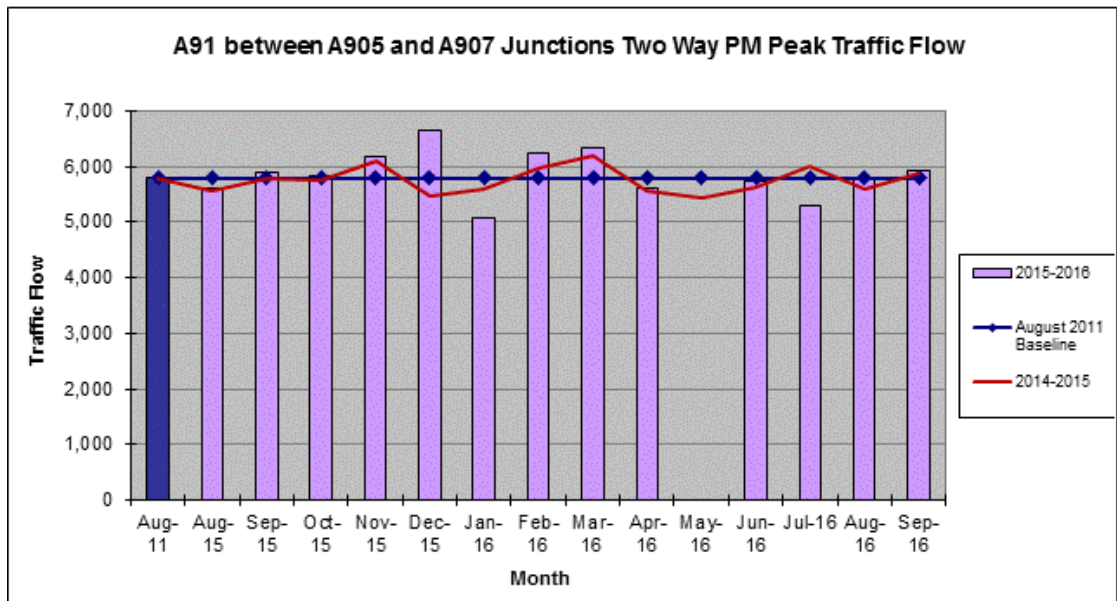


Figure 4-33 Monthly Two Way PM Peak Flows on the A91 between A905 and A907 Junctions

### 4.5.3 Monthly Average HGV Flows

Table 4-19 Site: JTC00573 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00573	A91 between A905 and A907 Junctions	Aug-11	321
		Aug-15	313
		Sep-15	344
		Oct-15	315
		Nov-15	320
		Dec-15	364
		Jan-16	218
		Feb-16	323
		Mar-16	314
		Apr-16	296
		May-16	No Data
		Jun-16	313
		Jul-16	292
		Aug-16	314
		Sep-16	331
	<b>Annual Average</b>	<b>310</b>	

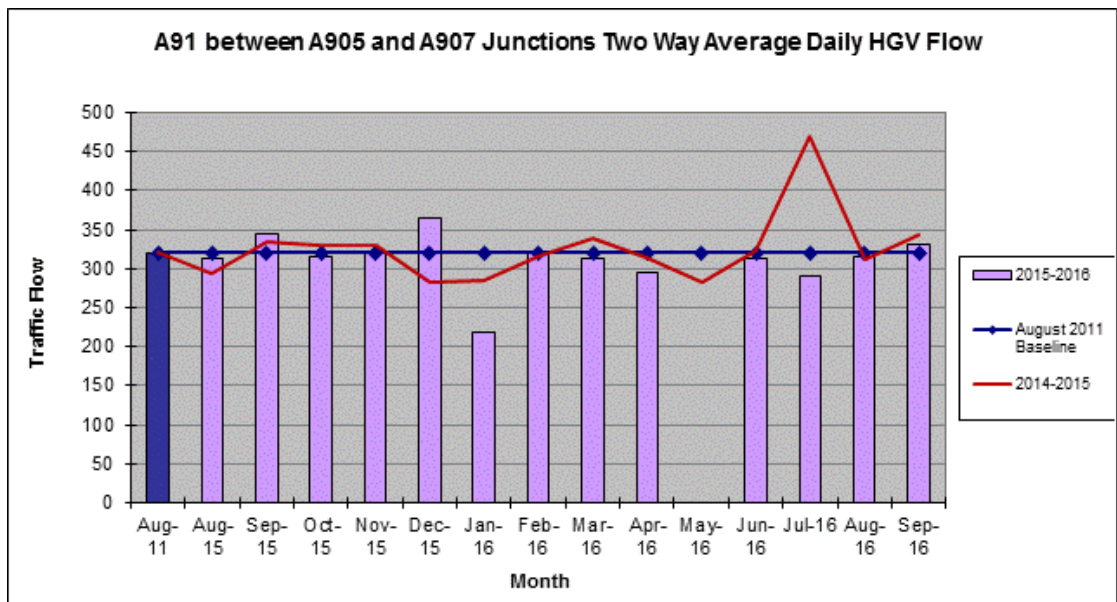
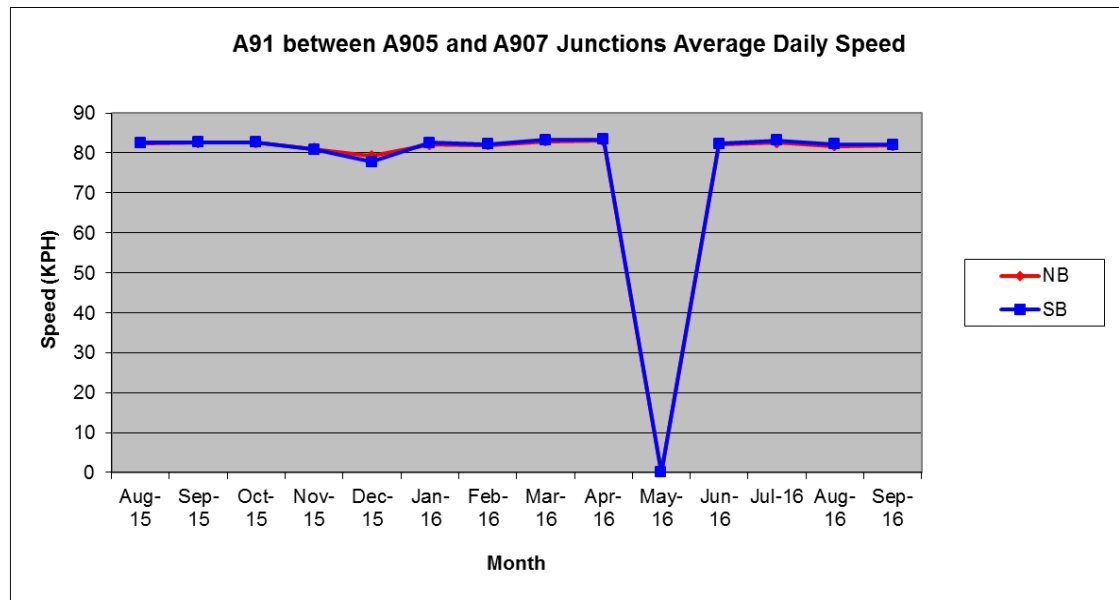


Figure 4-34 Monthly Two Way HGV Traffic Flows on the A91 between A905 and A907 Junctions

### 4.5.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-20 Site: JTC00573 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00573	A91 between A905 and A907 Junctions	Aug-15	82	83
		Sep-15	83	83
		Oct-15	83	83
		Nov-15	81	81
		Dec-15	79	78
		Jan-16	82	83
		Feb-16	82	82
		Mar-16	83	83
		Apr-16	83	83
		May-16	No Data	No Data
		Jun-16	82	82
		Jul-16	83	83
		Aug-16	82	82
		Sep-16	82	82



**Figure 4-35 Average Monthly Traffic Speeds (KPH) on the A91 between A905 and A907 Junctions**

## 4.6 Traffic Counter JTC00574 - A921 Admiralty Road (Inverkeithing)

Summary of statistics between August 2015 and September 2016:

- Data is being collected but is not yet able to be loaded into NTDS and is therefore not yet available to the project for reporting.

### 4.6.1 Monthly Average Traffic Flows

**Table 4-21 Site: JTC00574 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00574	A921 Admiralty Road (Inverkeithing)	Aug-11	10,523	11,150	21,674
		Aug-15	11,508	11,951	23,459
		Sep-15	10,727	11,075	21,802
		Oct-15	10,271	10,778	21,049
		Nov-15	No Data	No Data	No Data
		Dec-15	No Data	No Data	No Data
		Jan-16	No Data	No Data	No Data
		Feb-16	No Data	No Data	No Data
		Mar-16	No Data	No Data	No Data
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	No Data	No Data	No Data
		Jul-16	No Data	No Data	No Data
		Aug-16	No Data	No Data	No Data
		Sep-16	No Data	No Data	No Data
		<b>Annual Average</b>	<b>10,835</b>	<b>11,268</b>	<b>22,103</b>

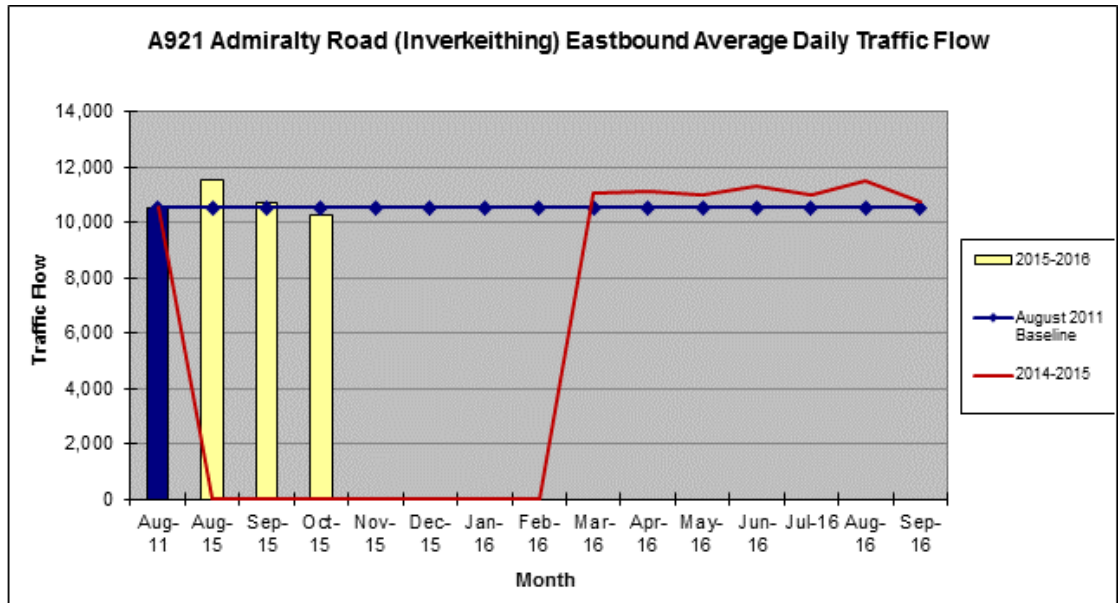


Figure 4-36 Monthly AADTs on the A921 Admiralty Road (Inverkeithing)

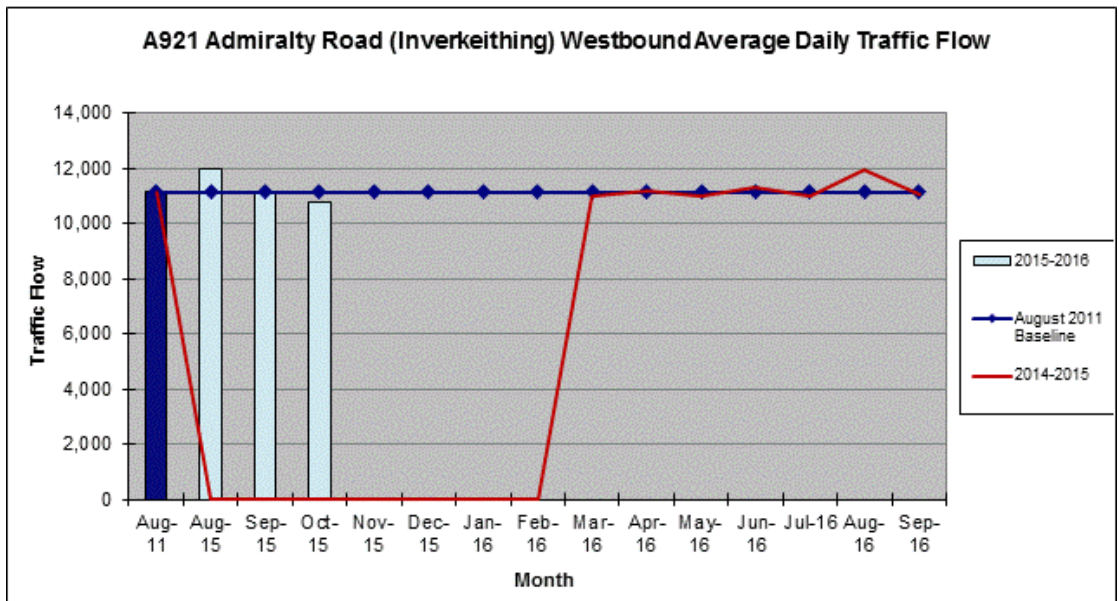


Figure 4-37 Monthly AADTs on the A921 Admiralty Road (Inverkeithing)

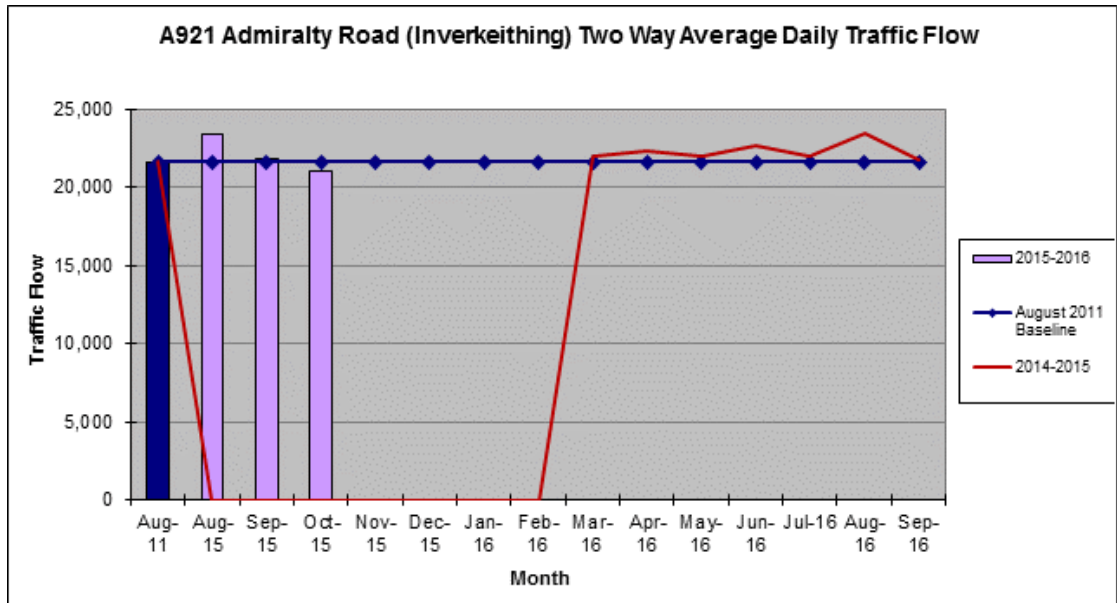


Figure 4-38 Monthly Two Way Daily Traffic Flows on the A921 Admiralty Road (Inverkeithing)

#### 4.6.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-22 Site: JTC00574 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00574	A921 Admiralty Road (Inverkeithing)	Aug-11	3,829	5,153
		Aug-15	3,872	5,428
		Sep-15	3,762	5,074
		Oct-15	3,750	4,908
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
		<b>Annual Average</b>	<b>3,795</b>	<b>5,137</b>

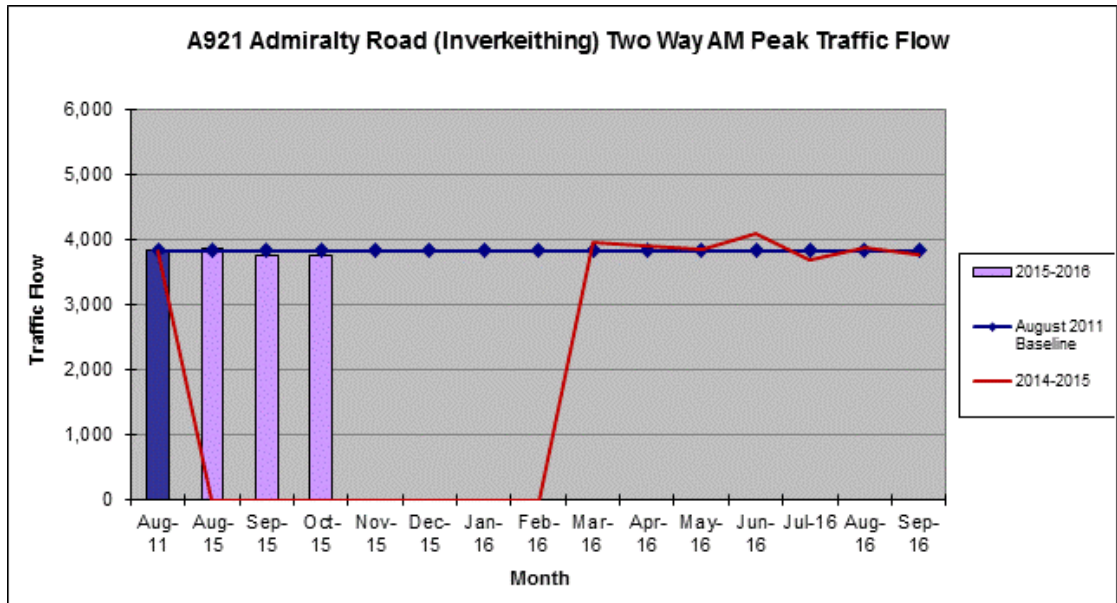


Figure 4-39 Monthly Two Way AM Peak Flows on the A921 Admiralty Road (Inverkeithing)

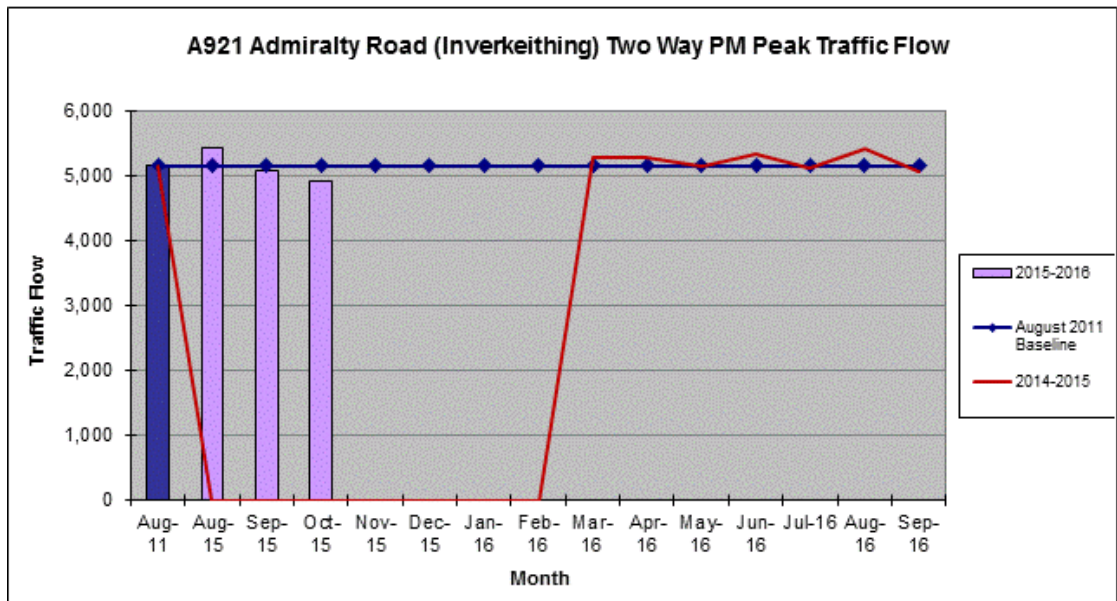


Figure 4-40 Monthly Two Way PM Peak Flows on the A921 Admiralty Road (Inverkeithing)

### 4.6.3 Monthly Average HGV Flows

Table 4-23 Site: JTC00574 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00574	A921 Admiralty Road (Inverkeithing)	Aug-11	252
		Aug-15	320
		Sep-15	322
		Oct-15	353
		Nov-15	No Data
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	

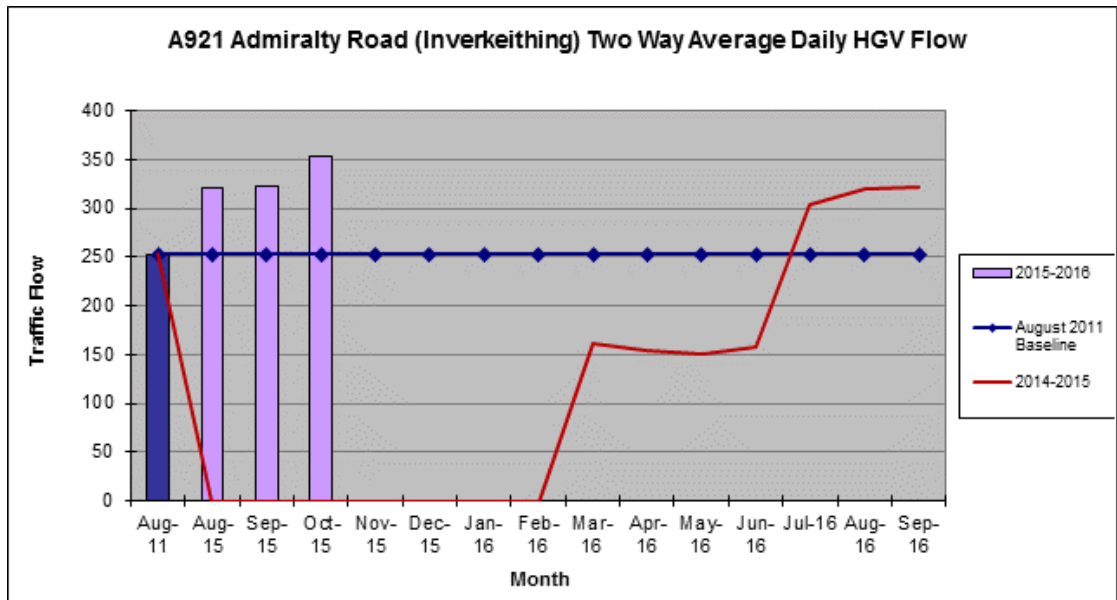


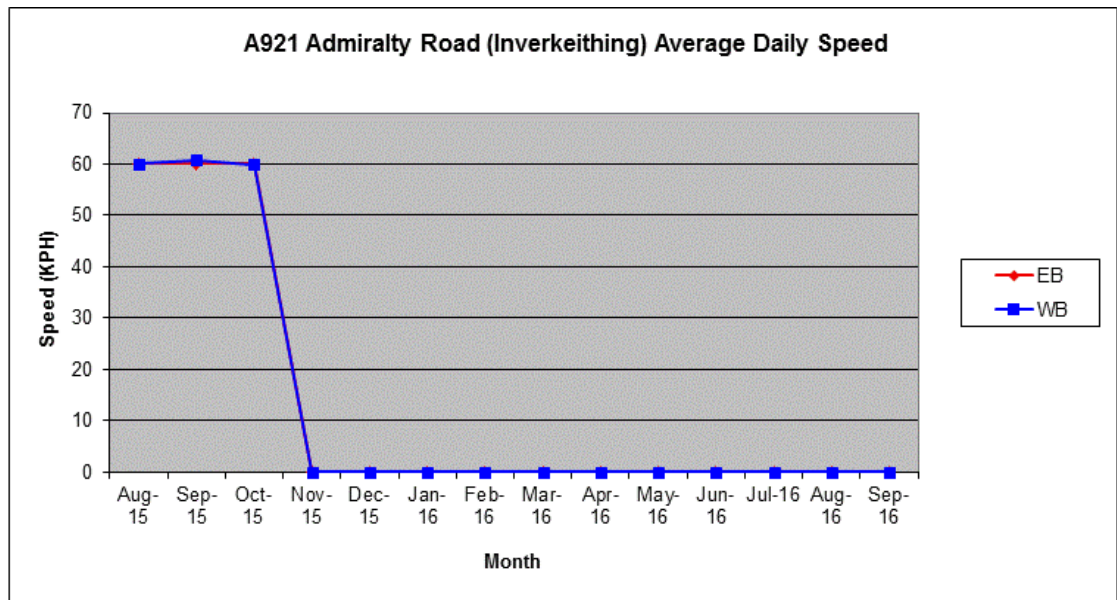
Figure 4-41 Monthly Two Way HGV Traffic Flows on the A921 Admiralty Road (Inverkeithing)



#### 4.6.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-24 Site: JTC00574 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00574	A921 Admiralty Road (Inverkeithing)	Aug-15	60	60
		Sep-15	60	61
		Oct-15	60	60
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data



**Figure 4-42 Average Monthly Traffic Speeds (KPH) on the A921 Admiralty Road (Inverkeithing)**

#### 4.7 Traffic Counter JTC00578 - A921 Hilton Road (Rosyth)

Summary of statistics between August 2015 and September 2016:

- There is a locally significant increase in HGV traffic volume throughout the monitoring period compared to the previous year.

##### 4.7.1 Monthly Average Traffic Flows

**Table 4-25 Site: JTC00578 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00578	A921 Hilton Road (Rosyth)	Aug-11	1,538	1,729	3,267
		Aug-15	1,476	1,660	3,136
		Sep-15	1,704	1,957	3,660
		Oct-15	1,664	1,878	3,542
		Nov-15	1,852	2,172	4,023
		Dec-15	1,622	1,829	3,451
		Jan-16	1,379	1,560	2,939
		Feb-16	1,828	2,079	3,908
		Mar-16	1,888	2,076	3,964
		Apr-16	1,869	2,043	3,912
		May-16	1,925	2,152	4,077
		Jun-16	1,953	2,222	4,175
		Jul-16	1,633	1,792	3,425
		Aug-16	1,934	2,195	4,129
		Sep-16	1,914	2,279	4,193
		<b>Annual Average</b>	<b>1,733</b>	<b>1,952</b>	<b>3,684</b>

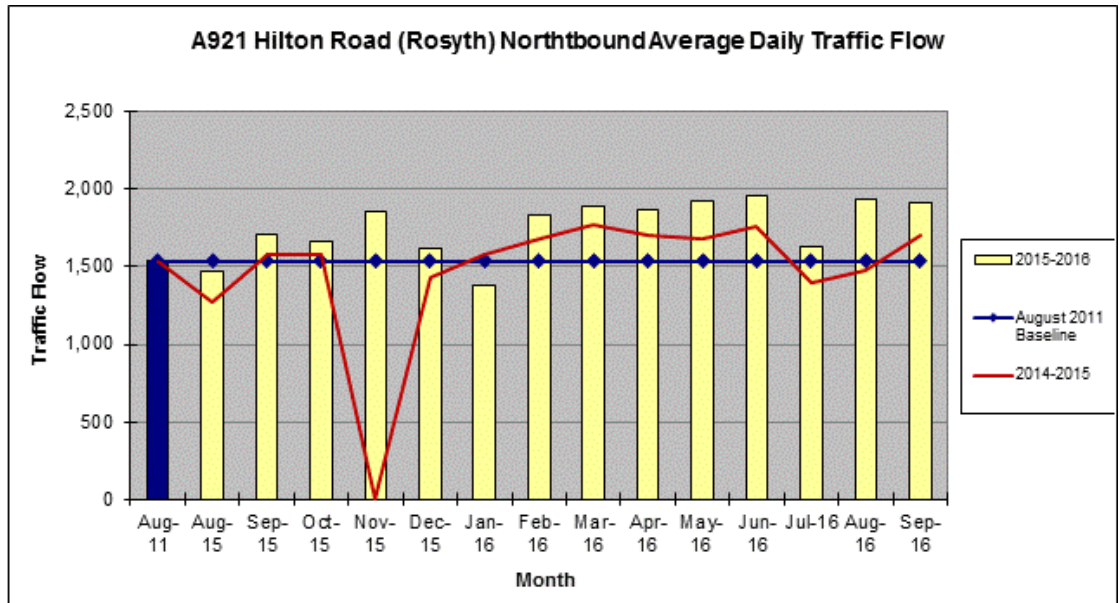


Figure 4-43 Monthly AADTs on the A921 Hilton Road (Rosyth)

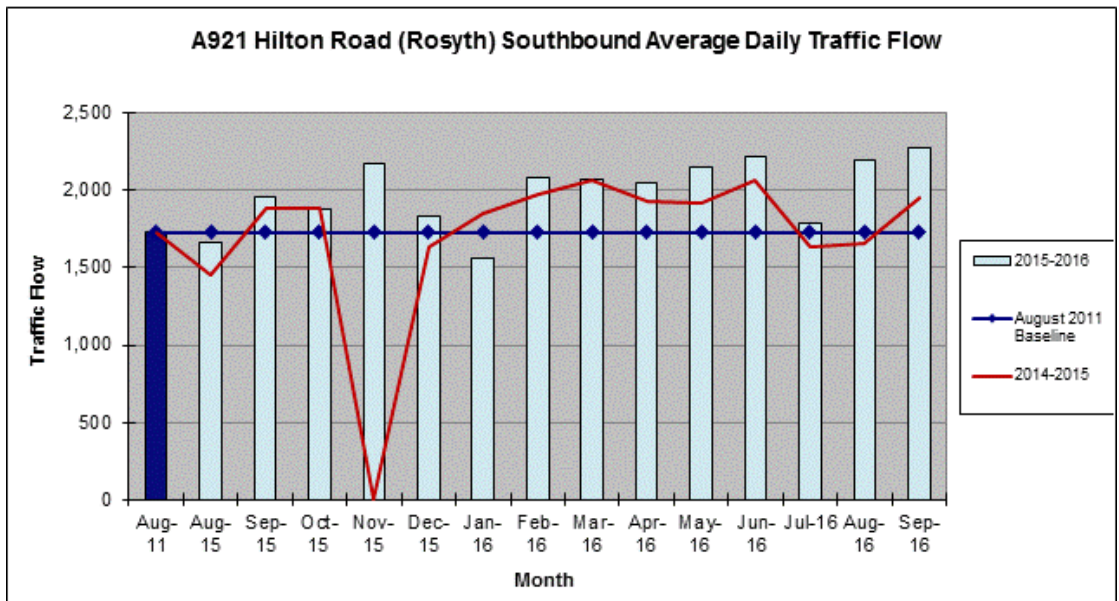


Figure 4-44 Monthly AADTs on the A921 Hilton Road (Rosyth)

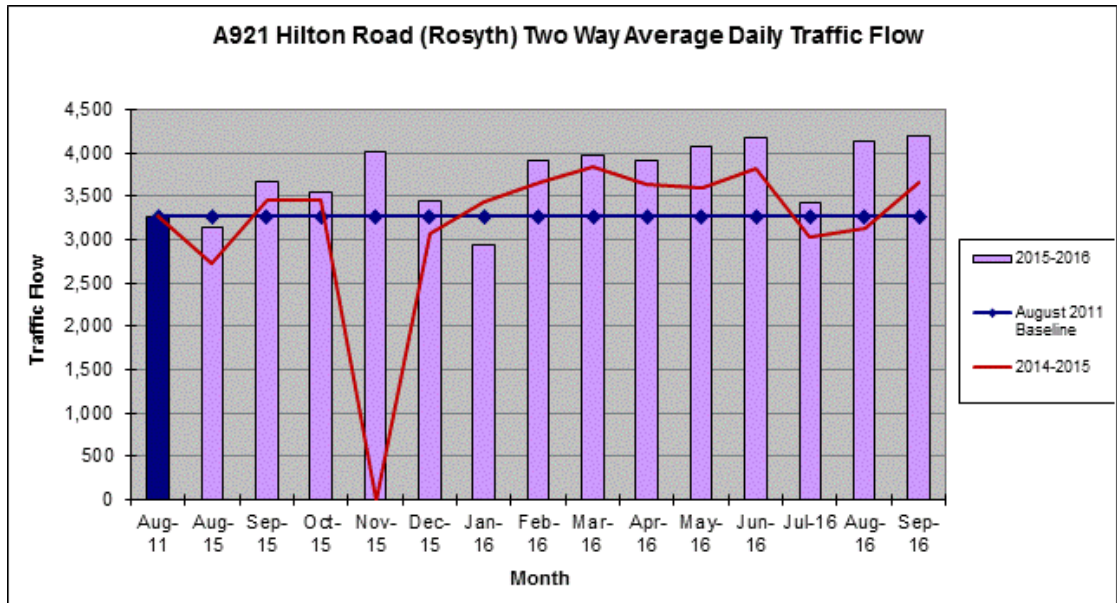


Figure 4-45 Monthly Two Way Daily Traffic Flows on the A921 Hilton Road (Rosyth)

#### 4.7.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-26 Site: JTC00578 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00578	A921 Hilton Road (Rosyth)	Aug-11	839	853
		Aug-15	398	648
		Sep-15	506	767
		Oct-15	497	732
		Nov-15	1,040	1,011
		Dec-15	712	820
		Jan-16	672	744
		Feb-16	905	1,029
		Mar-16	821	1,029
		Apr-16	516	797
		May-16	534	833
		Jun-16	535	837
		Jul-16	396	703
		Aug-16	522	855
		Sep-16	565	823
	<b>Annual Average</b>	<b>628</b>	<b>829</b>	

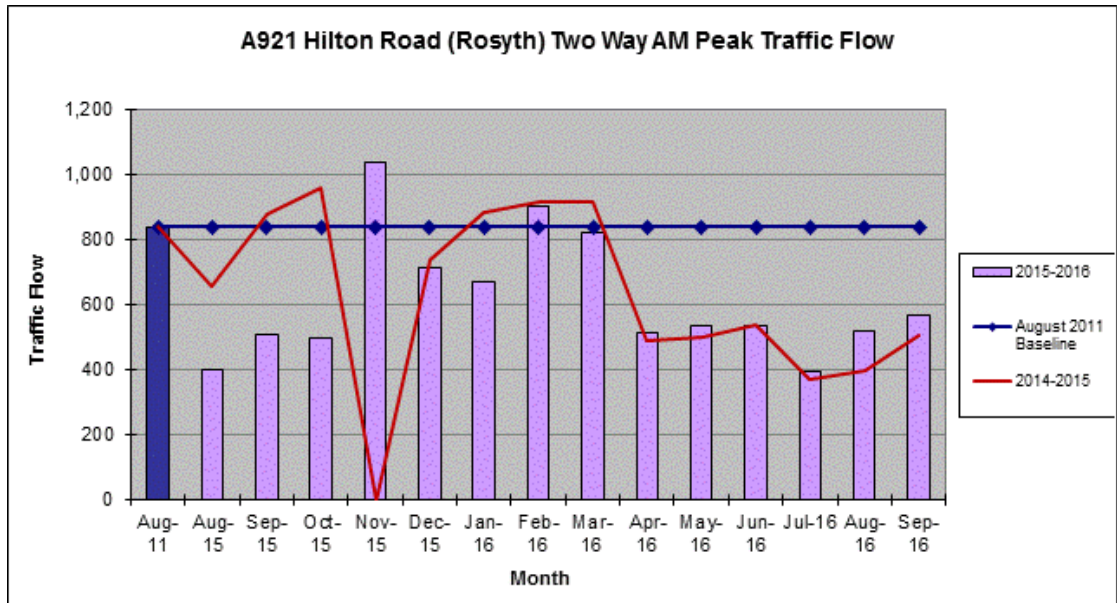


Figure 4-46 Monthly Two Way AM Peak Flows on the A921 Hilton Road (Rosyth)

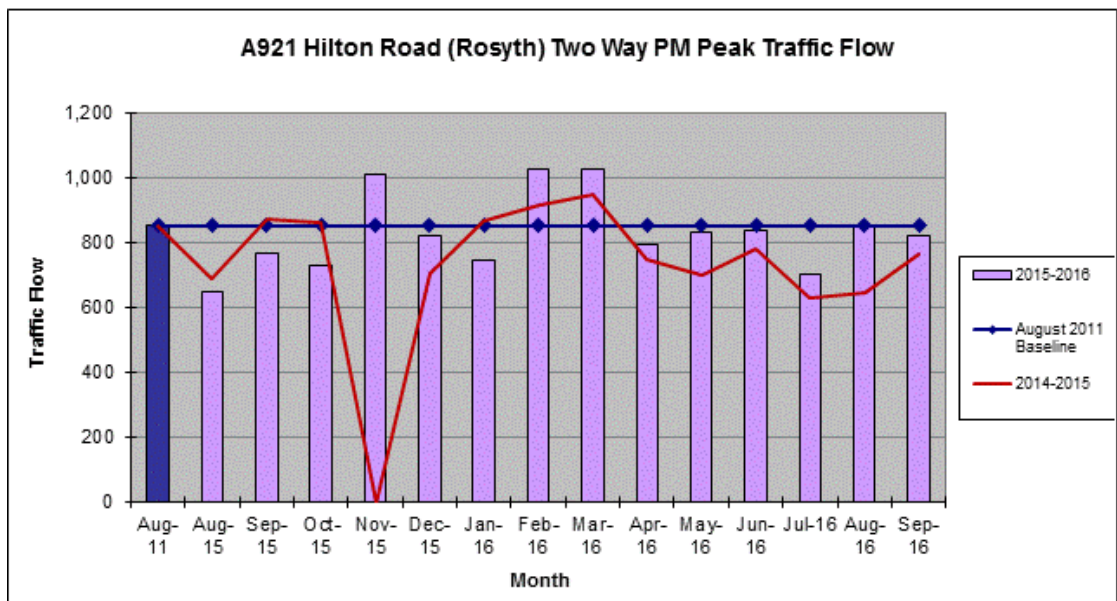


Figure 4-47 Monthly Two Way PM Peak Flows on the A921 Hilton Road (Rosyth)

### 4.7.3 Monthly Average HGV Flows

Table 4-27 Site: JTC00578 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00578	A921 Hilton Road (Rosyth)	Aug-11	6
		Aug-15	16
		Sep-15	20
		Oct-15	16
		Nov-15	26
		Dec-15	26
		Jan-16	24
		Feb-16	23
		Mar-16	18
		Apr-16	17
		May-16	21
		Jun-16	21
		Jul-16	11
		Aug-16	20
		Sep-16	22
		<b>Annual Average</b>	<b>20</b>

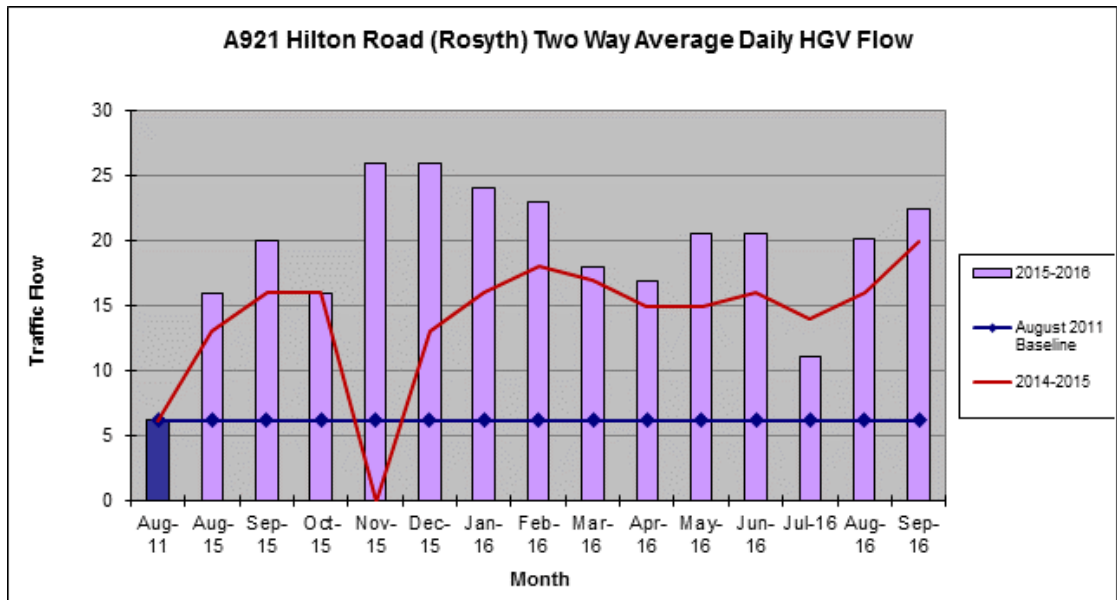
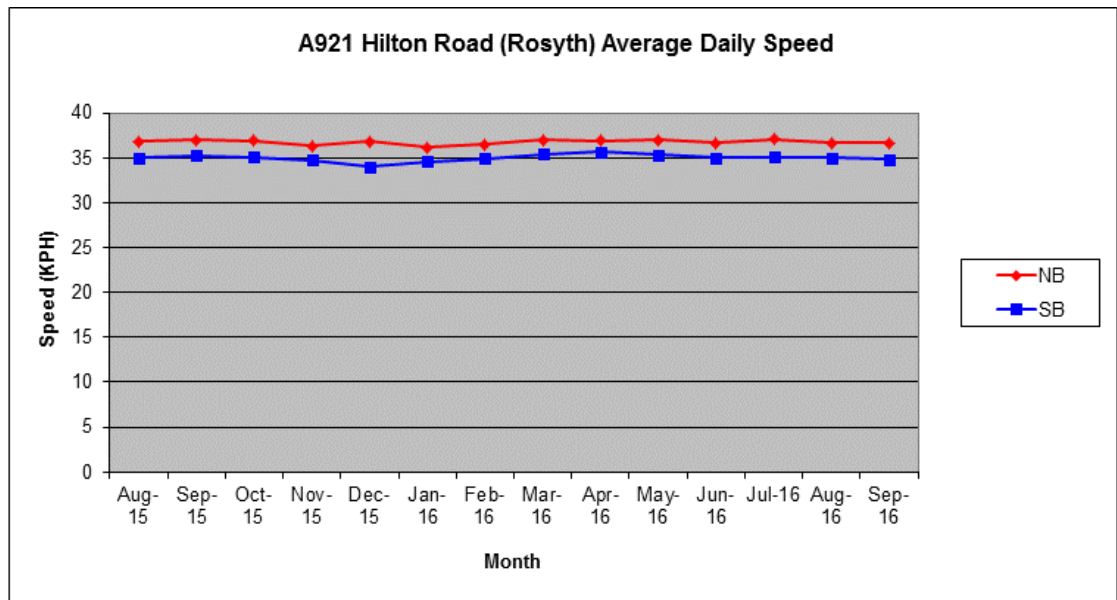


Figure 4-48 Monthly Two Way HGV Traffic Flows on the A921 Hilton Road (Rosyth)

#### 4.7.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-28 Site: JTC00578 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00578	A921 Hilton Road (Rosyth)	Aug-15	37	35
		Sep-15	37	35
		Oct-15	37	35
		Nov-15	36	35
		Dec-15	37	34
		Jan-16	36	35
		Feb-16	37	35
		Mar-16	37	35
		Apr-16	37	36
		May-16	37	35
		Jun-16	37	35
		Jul-16	37	35
		Aug-16	37	35
Sep-16	37	35		



**Figure 4-49 Average Monthly Traffic Speeds (KPH) on the A921 Hilton Road (Rosyth)**

## 4.8 Traffic Counter JTC00584 - A907 Halbeath Road

Summary of statistics between August 2015 and September 2016:

- Traffic flows remain at a consistent level throughout the monitoring period and are comparable to the previous monitoring period and the 2011 baseline.
- This counter has been experiencing intermittent faults. Parts were replaced in November 2015.

### 4.8.1 Monthly Average Traffic Flows

**Table 4-29 Site: JTC00584 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00584	A907 Halbeath Road	Aug-11	11,981	11,713	23,694
		Aug-15	11,915	11,602	23,517
		Sep-15	11,929	11,626	23,554
		Oct-15	11,895	11,563	23,457
		Nov-15	12,655	12,290	24,945
		Dec-15	No Data	No Data	No Data
		Jan-16	No Data	No Data	No Data
		Feb-16	No Data	No Data	No Data
		Mar-16	No Data	No Data	No Data
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	12,162	11,787	23,949
		Jul-16	11,443	10,907	22,350
		Aug-16	11,310	11,182	22,492
		Sep-16	No Data	No Data	No Data
		<b>Annual Average</b>	<b>12,000</b>	<b>11,629</b>	<b>23,629</b>



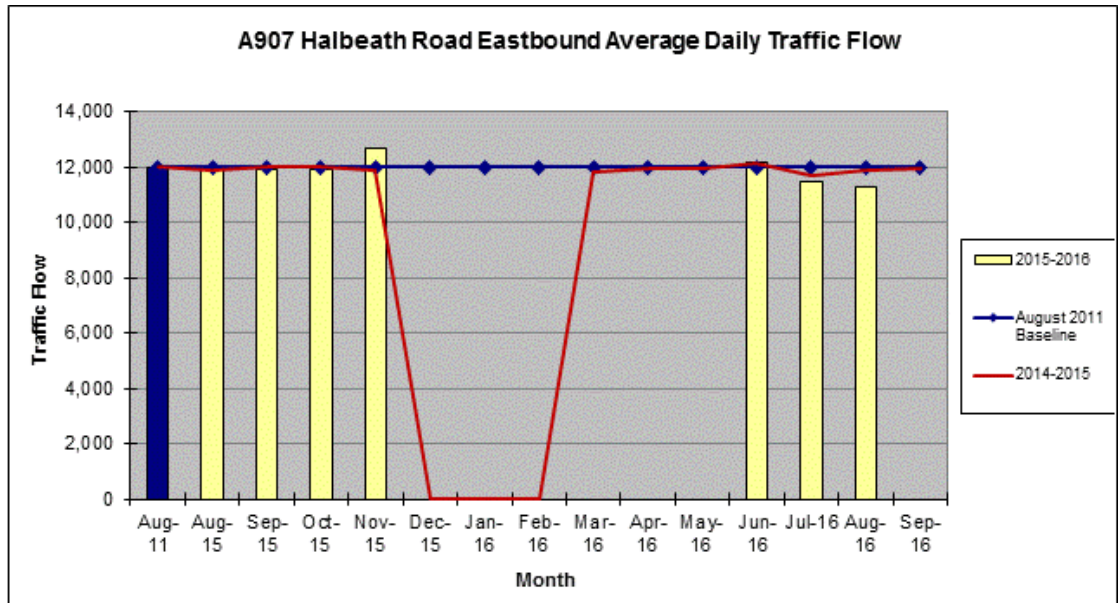


Figure 4-50 Monthly AADTs on the A907 Halbeath Road

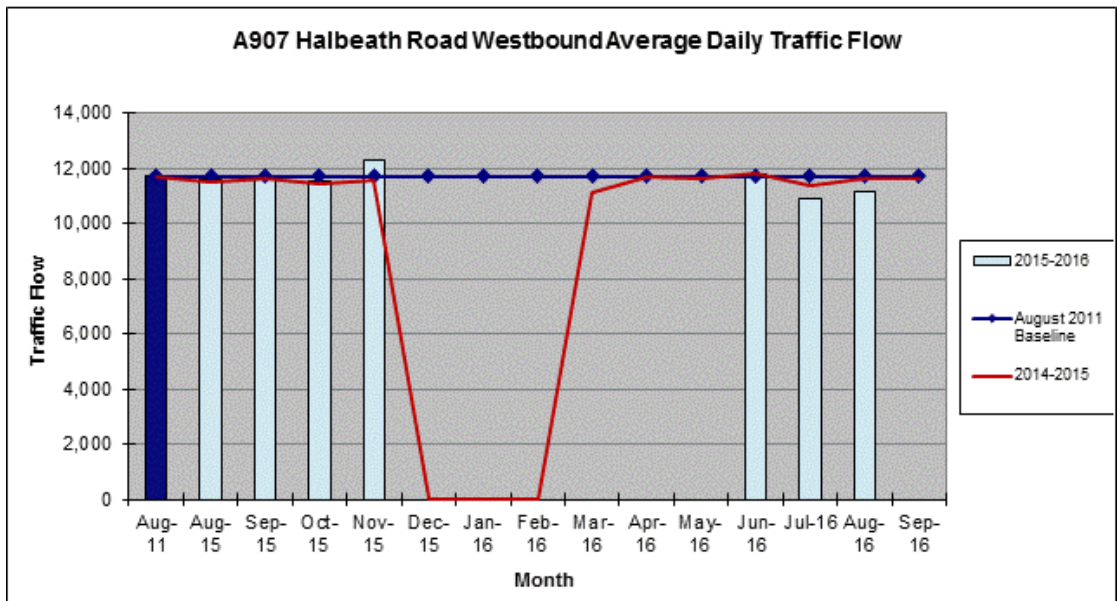


Figure 4-51 Monthly AADTs on the A907 Halbeath Road

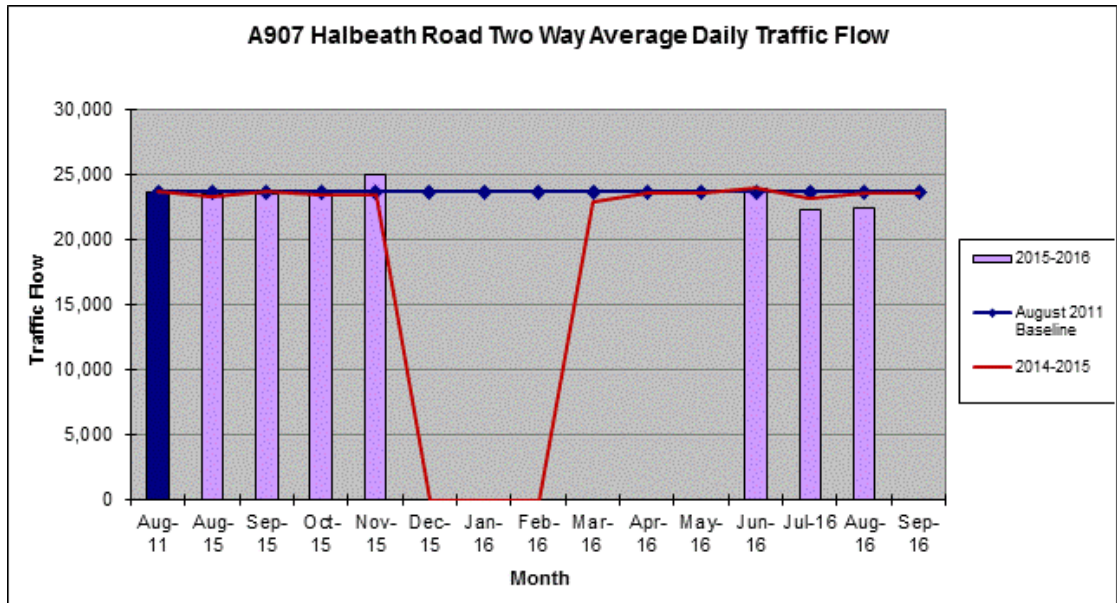


Figure 4-52 Monthly Two Way Daily Traffic Flows on the A907 Halbeath Road

#### 4.8.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-30 Site: JTC00584 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00584	A907 Halbeath Road	Aug-11	3,784	5,441
		Aug-15	3,523	5,364
		Sep-15	3,915	5,434
		Oct-15	3,567	5,434
		Nov-15	3,902	6,043
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	3,960	5,456
		Jul-16	3,314	5,023
		Aug-16	3,522	5,116
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>3,697</b>	<b>5,459</b>	

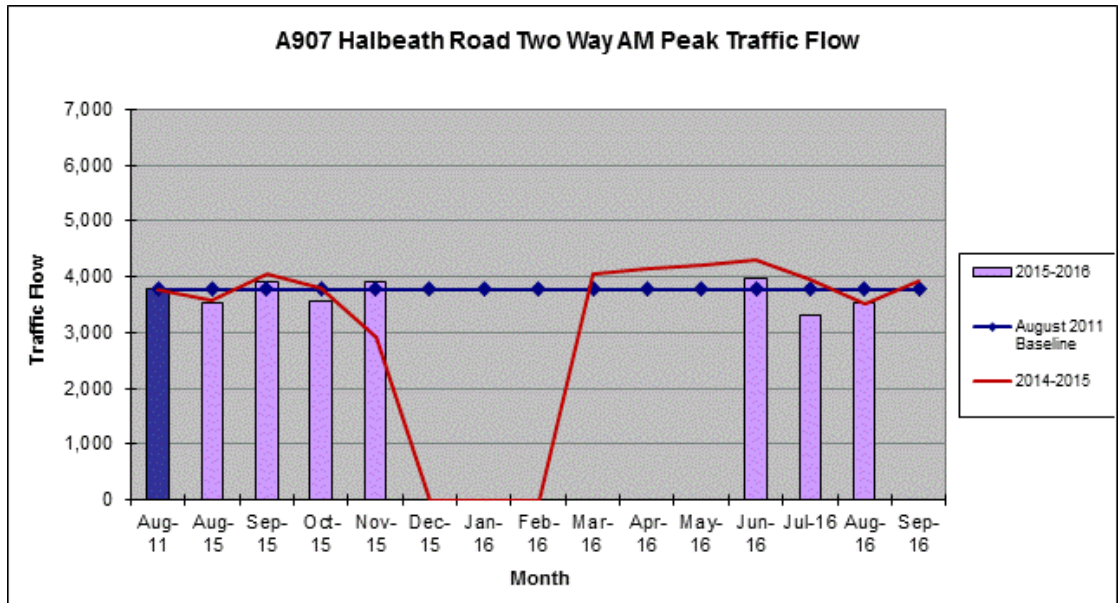


Figure 4-53 Monthly Two Way AM Peak Flows on the A907 Halbeath Road

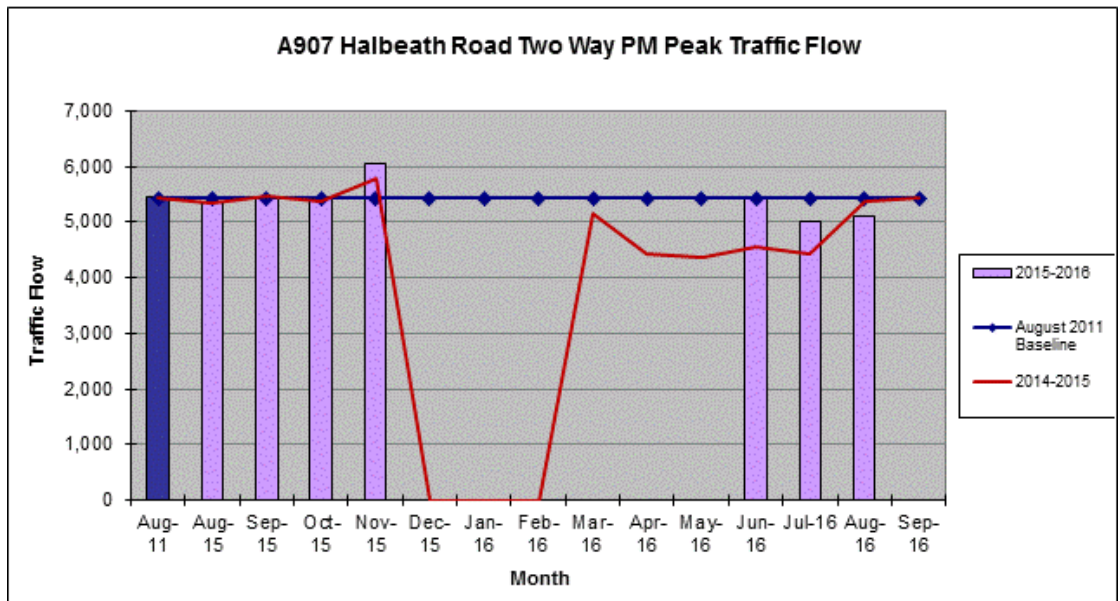


Figure 4-54 Monthly Two Way PM Peak Flows on the A907 Halbeath Road

### 4.8.3 Monthly Average HGV Flows

Table 4-31 Site: JTC00584 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00584	A907 Halbeath Road	Aug-11	268
		Aug-15	278
		Sep-15	293
		Oct-15	282
		Nov-15	335
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	374
		Jul-16	342
		Aug-16	336
		Sep-16	No Data
		<b>Annual Average</b>	

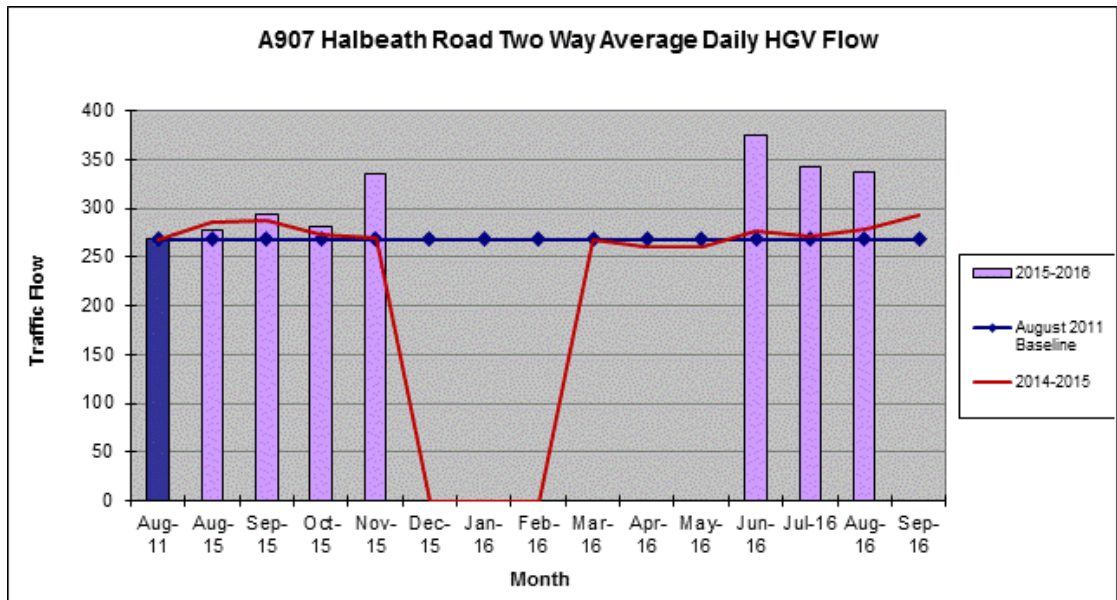
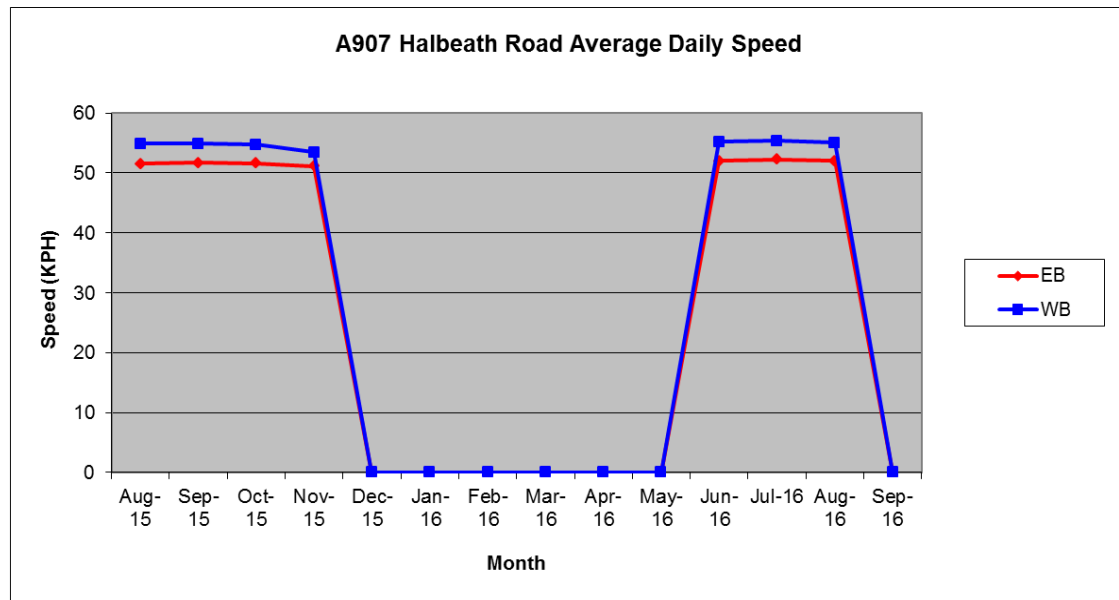


Figure 4-55 Monthly Two Way HGV Traffic Flows on the A907 Halbeath Road

#### 4.8.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-32 Site: JTC00584 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00584	A907 Halbeath Road	Aug-15	52	55
		Sep-15	52	55
		Oct-15	52	55
		Nov-15	51	53
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	52	55
		Jul-16	52	55
		Aug-16	52	55
		Sep-16	No Data	No Data



**Figure 4-56 Average Monthly Traffic Speeds (KPH) on the A907 Halbeath Road**

#### 4.9 Traffic Counter JTC00598 - B800 Ferry Muir Road

Summary of statistics between August 2015 and September 2016:

- The data is consistent with that of the previous monitoring period and the 2011 baseline.
- No data since November 2015 due to the construction of a new bus lane.

##### 4.9.1 Monthly Average Traffic Flows

**Table 4-33 Site: JTC00598 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00598	B800 Ferry Muir Road	Aug-11	7,532	7,299	14,830
		Aug-15	7,698	7,526	15,224
		Sep-15	7,350	7,162	14,512
		Oct-15	6,943	7,002	13,945
		Nov-15	No Data	No Data	No Data
		Dec-15	No Data	No Data	No Data
		Jan-16	No Data	No Data	No Data
		Feb-16	No Data	No Data	No Data
		Mar-16	No Data	No Data	No Data
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	No Data	No Data	No Data
		Jul-16	No Data	No Data	No Data
		Aug-16	No Data	No Data	No Data
		Sep-16	No Data	No Data	No Data
		<b>Annual Average</b>	<b>7,330</b>	<b>7,230</b>	<b>14,560</b>

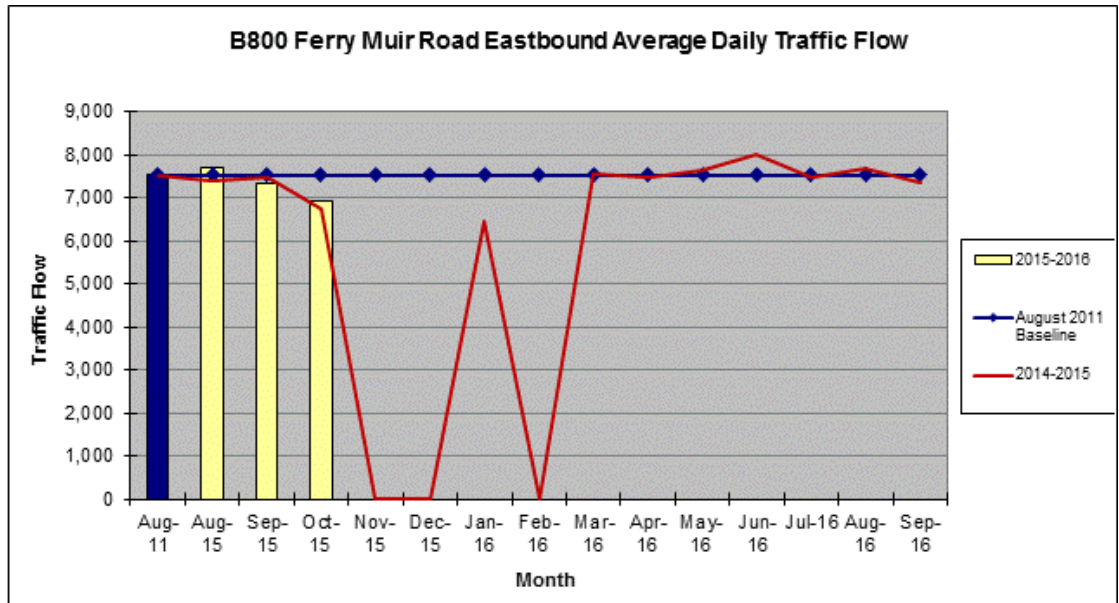


Figure 4-57 Monthly AADTs on the B800 Ferry Muir Road

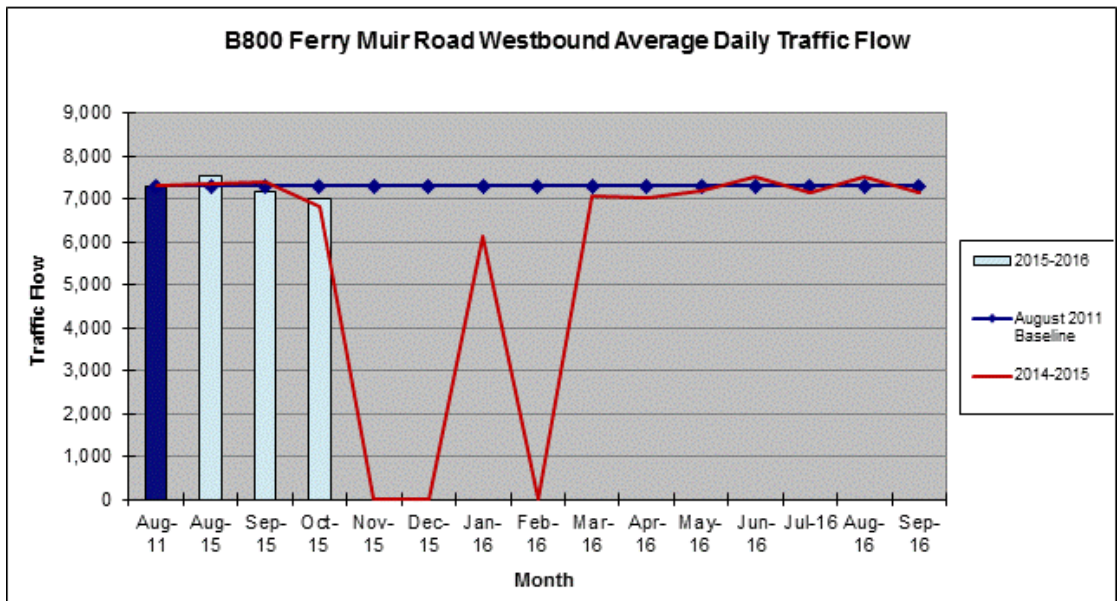


Figure 4-58 Monthly AADTs on the B800 Ferry Muir Road

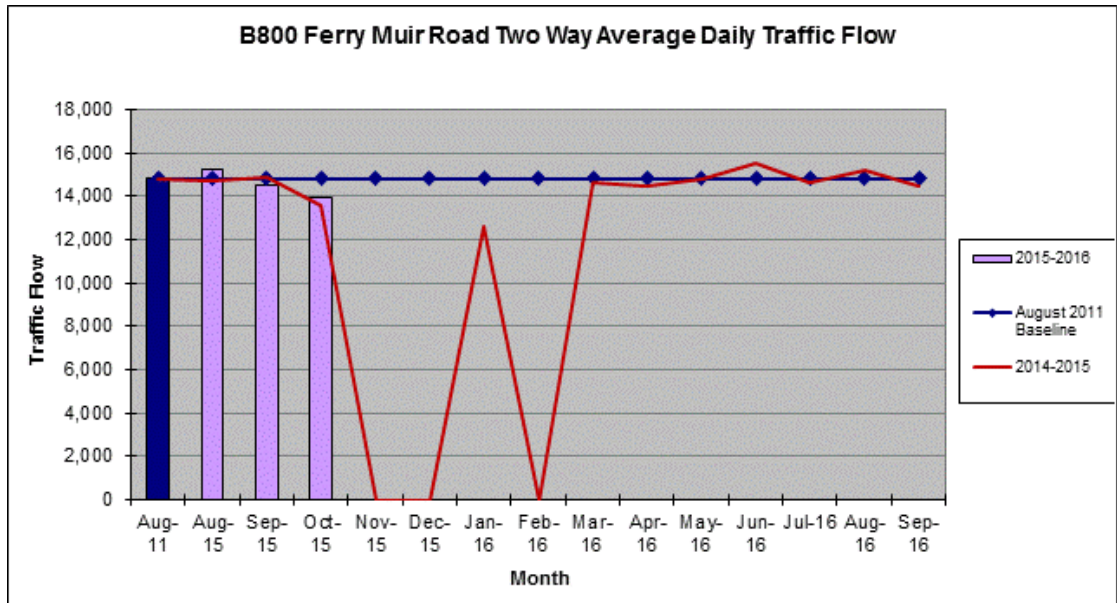


Figure 4-59 Monthly Two Way Daily Traffic Flows on the B800 Ferry Muir Road

#### 4.9.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-34 Site: JTC00598 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00598	B800 Ferry Muir Road	Aug-11	2,341	3,535
		Aug-15	2,451	3,138
		Sep-15	2,442	2,996
		Oct-15	2,305	3,189
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
		<b>Annual Average</b>	<b>2,400</b>	<b>3,108</b>



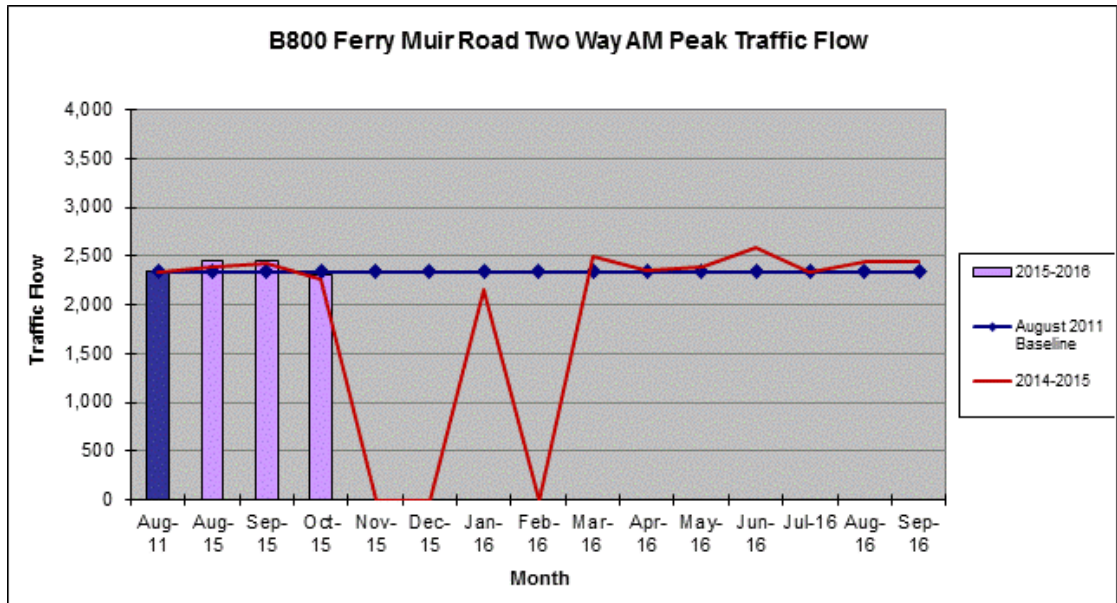


Figure 4-60 Monthly Two Way AM Peak Flows on the B800 Ferry Muir Road

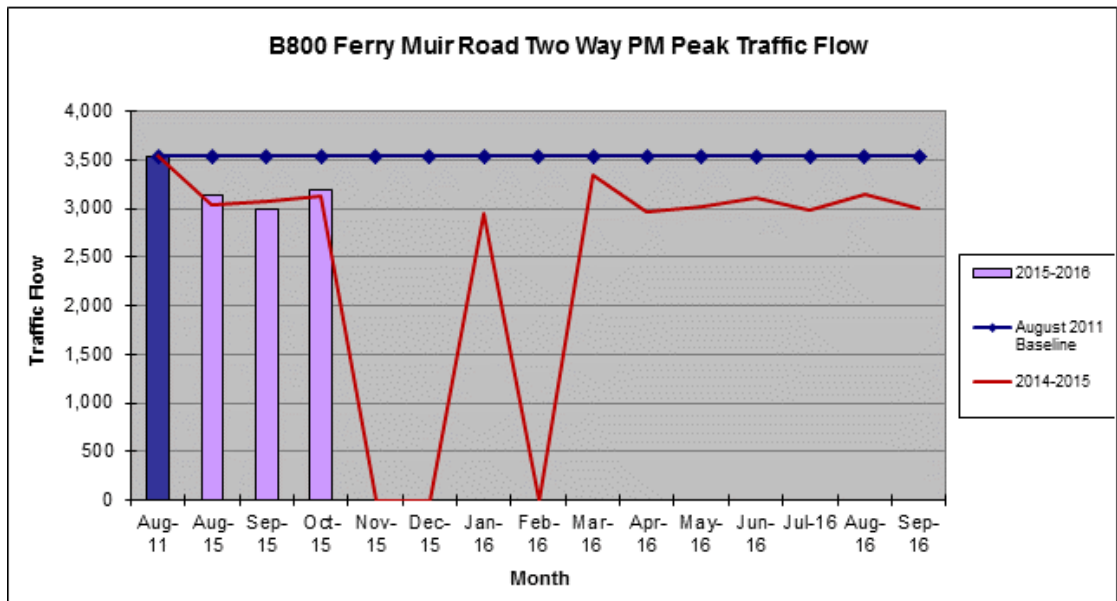


Figure 4-61 Monthly Two Way PM Peak Flows on the B800 Ferry Muir Road

### 4.9.3 Monthly Average HGV Flows

Table 4-35 Site: JTC00598 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00598	B800 Ferry Muir Road	Aug-11	219
		Aug-15	107
		Sep-15	113
		Oct-15	111
		Nov-15	No Data
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data

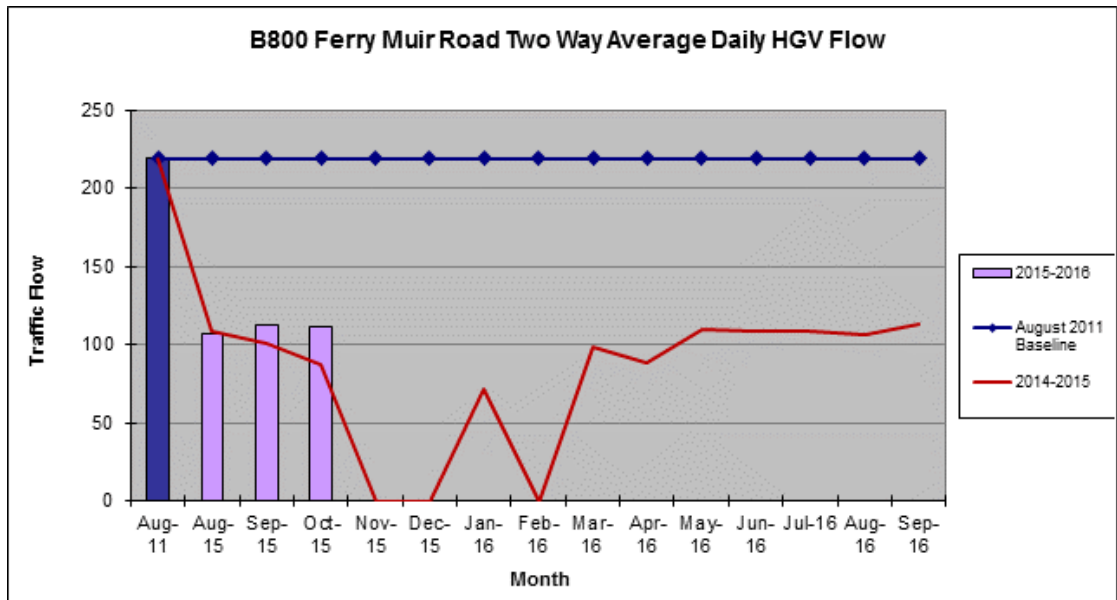
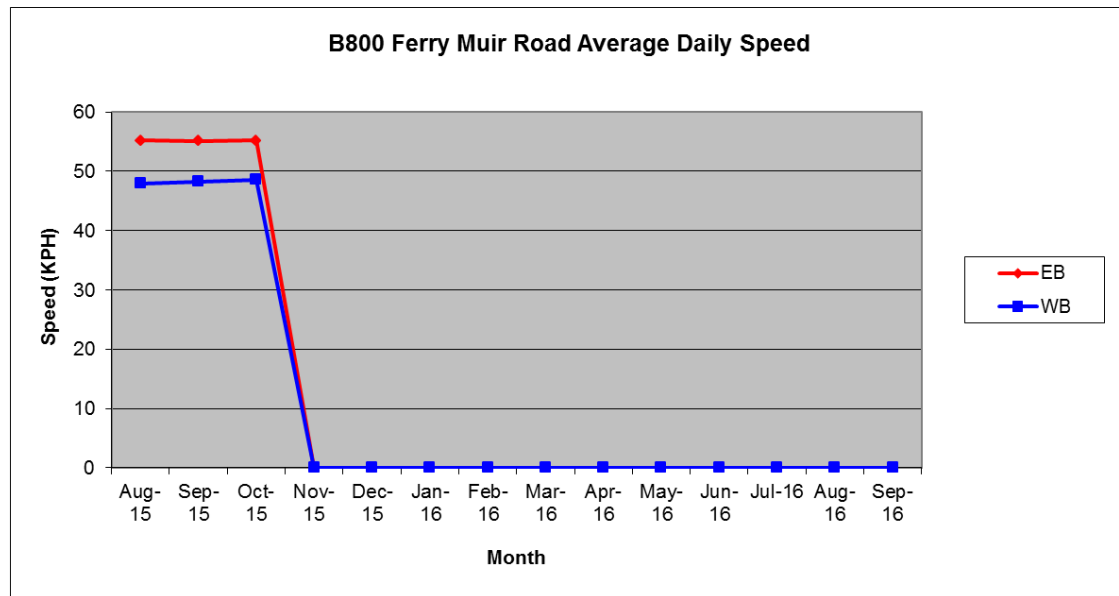


Figure 4-62 Monthly Two Way HGV Traffic Flows on the B800 Ferry Muir Road

### 4.9.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-36 Site: JTC00598 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00598	B800 Ferry Muir Road	Aug-15	55	48
		Sep-15	55	48
		Oct-15	55	49
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data



**Figure 4-63 Average Monthly Traffic Speeds (KPH) on the B800 Ferry Muir Road**

#### 4.10 Traffic Counter JTC00602 - A89 Edinburgh Road (West of Newbridge)

Summary of statistics between August 2015 and September 2016:

- The data is consistent with that of the previous monitoring period and the 2011 baseline.
- Site is live but prone to producing unreliable data for the purposes of this report.

##### 4.10.1 Monthly Average Traffic Flows

Table 4-37 Site: JTC00602 Annual Traffic Flows - August 2015 to September 2016

Counter	Location	Date	EB	WB	Two Way
JTC00602	A89 Edinburgh Road (West of Newbridge)	Aug-11	8,332	8,102	16,434
		Aug-15	8,718	8,349	17,067
		Sep-15	8,328	8,057	16,385
		Oct-15	No Data	No Data	No Data
		Nov-15	No Data	No Data	No Data
		Dec-15	No Data	No Data	No Data
		Jan-16	No Data	No Data	No Data
		Feb-16	8,360	8,129	16,489
		Mar-16	8,544	8,234	16,778
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	7,868	7,799	15,667
		Jul-16	7,743	7,588	15,331
		Aug-16	8,291	8,237	16,528
		Sep-16	8,414	8,216	16,630
	<b>Annual Average</b>	<b>8,260</b>	<b>8,026</b>	<b>16,286</b>	

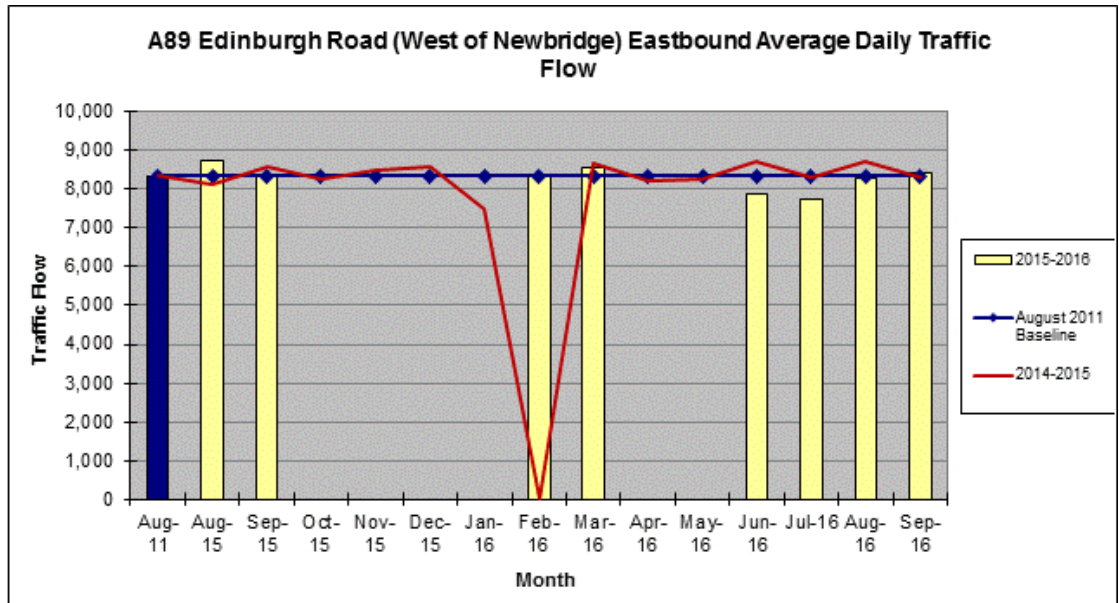


Figure 4-64 Monthly AADTs on the A89 Edinburgh Road (West of Newbridge)

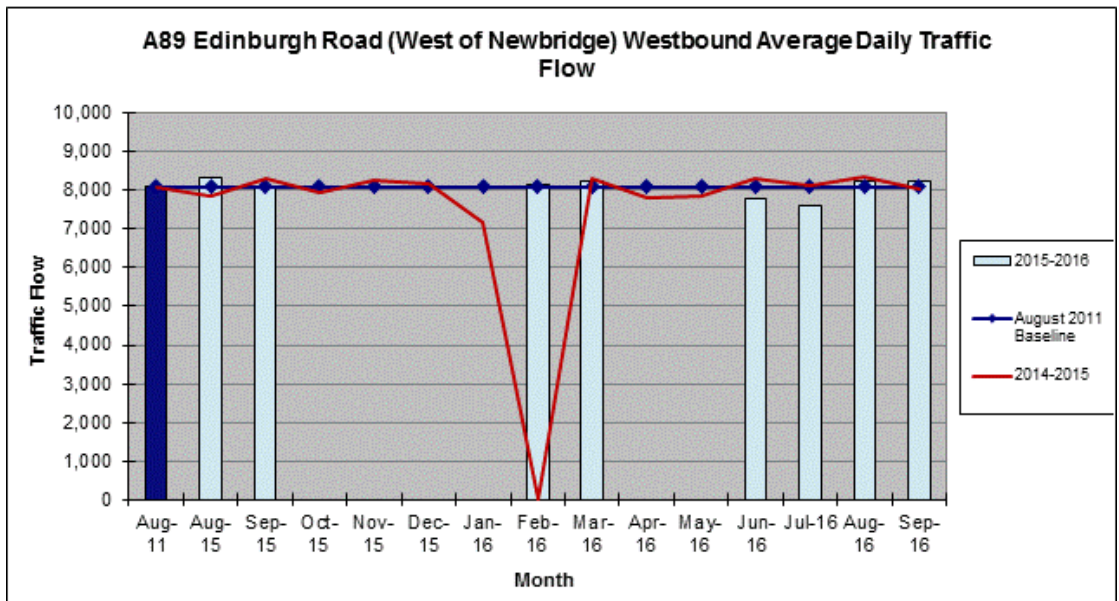


Figure 4-65 Monthly AADTs on the A89 Edinburgh Road (West of Newbridge)

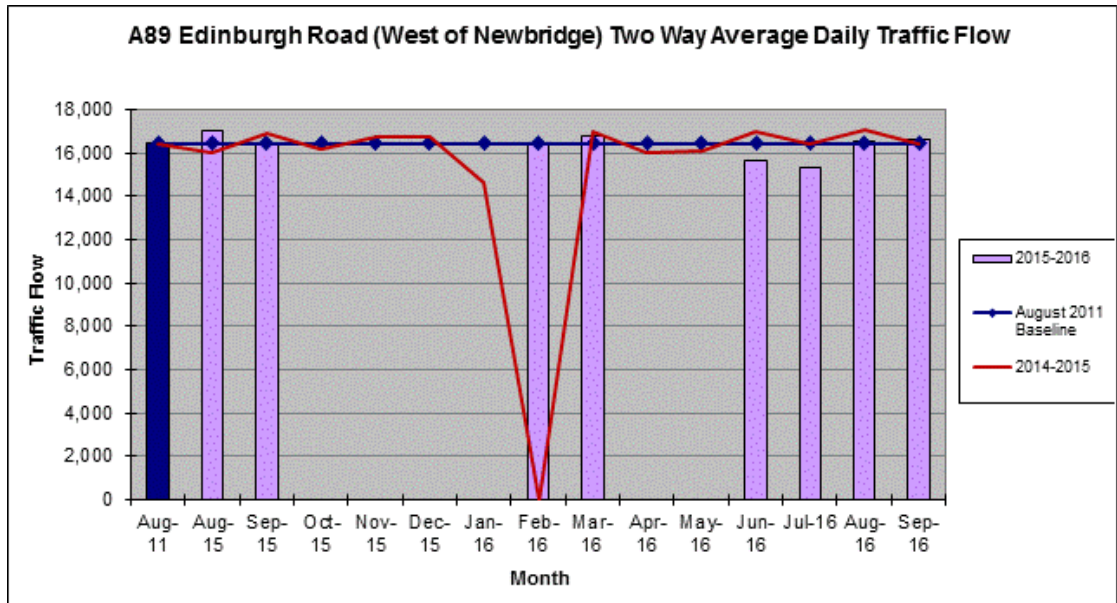


Figure 4-66 Monthly Two Way Daily Traffic Flows on the A89 Edinburgh Road (West of Newbridge)

#### 4.10.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-38 Site: JTC00602 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00602	A89 Edinburgh Road (West of Newbridge)	Aug-11	3,181	3,762
		Aug-15	3,109	3,011
		Sep-15	2,990	2,857
		Oct-15	No Data	No Data
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	3,306	3,560
		Mar-16	3,416	3,672
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	3,159	3,329
		Jul-16	2,848	3,266
		Aug-16	3,176	3,591
Sep-16	3,317	3,602		
	<b>Annual Average</b>	<b>3,138</b>	<b>3,282</b>	

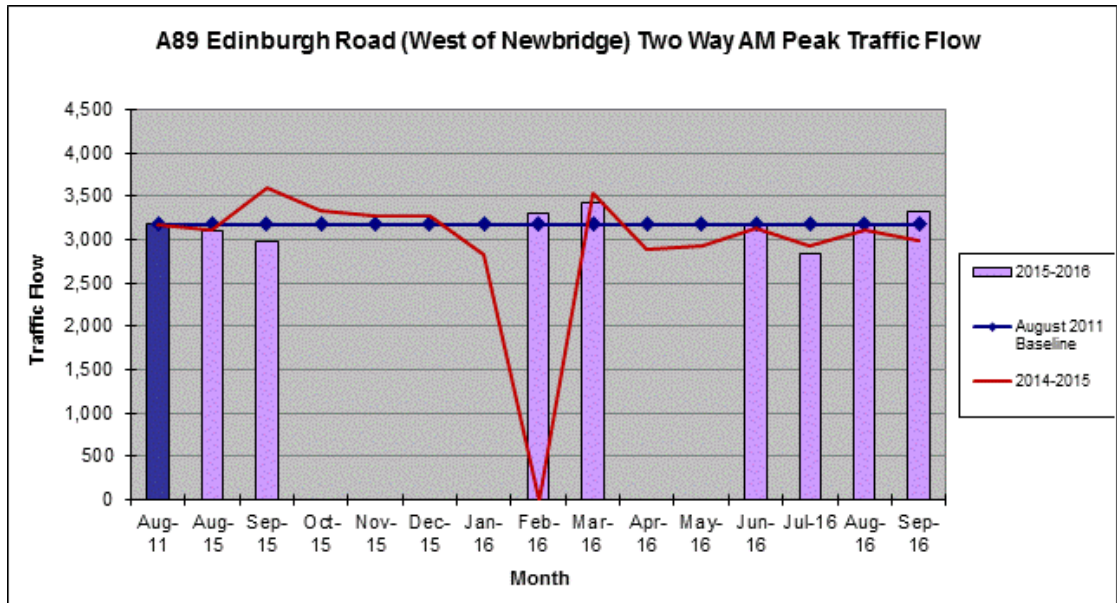


Figure 4-67 Monthly Two Way AM Peak Flows on the A89 Edinburgh Road (West of Newbridge)

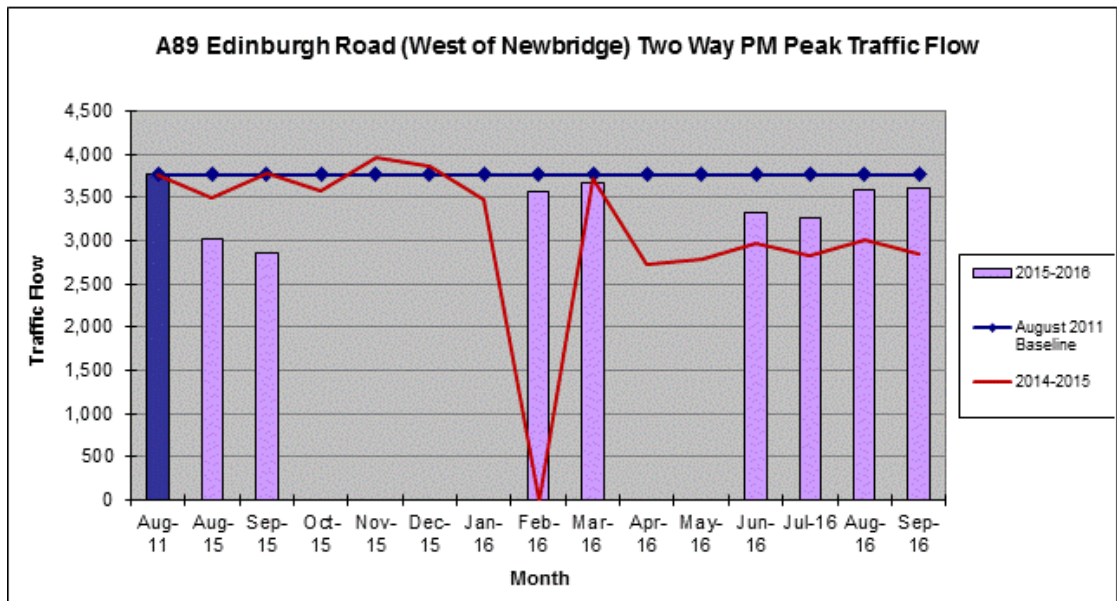


Figure 4-68 Monthly Two Way PM Peak Flows on the A89 Edinburgh Road (West of Newbridge)

### 4.10.3 Monthly Average HGV Flows

Table 4-39 Site: JTC00602 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00602	A89 Edinburgh Road (West of Newbridge)	Aug-11	384
		Aug-15	388
		Sep-15	374
		Oct-15	No Data
		Nov-15	No Data
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	335
		Mar-16	364
		Apr-16	No Data
		May-16	No Data
		Jun-16	407
		Jul-16	377
		Aug-16	392
		Sep-16	374
		<b>Annual Average</b>	

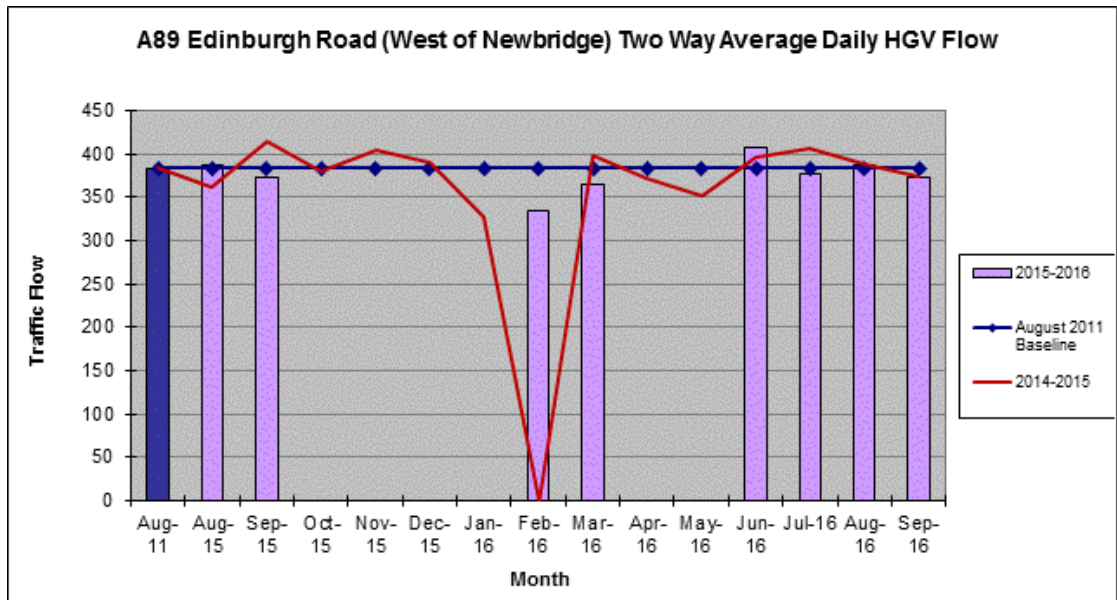


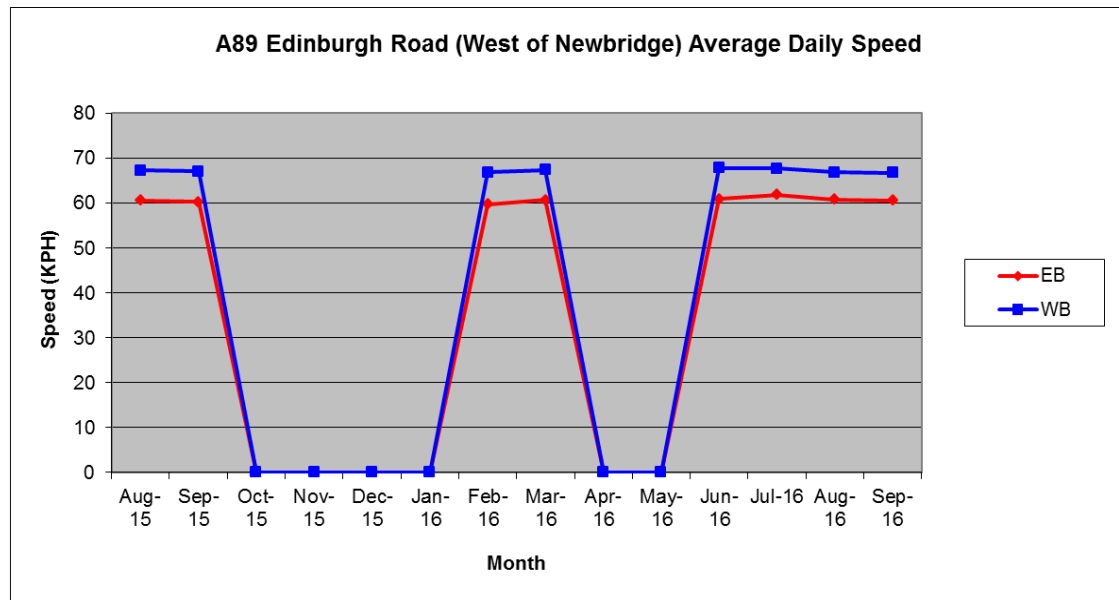
Figure 4-69 Monthly Two Way HGV Traffic Flows on the A89 Edinburgh Road (West of Newbridge)



#### 4.10.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-40 Site: JTC00602 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00602	A89 Edinburgh Road (West of Newbridge)	Aug-15	61	67
		Sep-15	60	67
		Oct-15	No Data	No Data
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	60	67
		Mar-16	61	67
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	61	68
		Jul-16	62	68
		Aug-16	61	67
		Sep-16	60	67



**Figure 4-70 Average Monthly Traffic Speeds (KPH) on the A89 Edinburgh Road (West of Newbridge)**

### 4.11 Traffic Counter JTC00604 - A71 Calder Road (Riccarton)

Summary of statistics between August 2015 and September 2016:

- The data is consistent with that of the previous monitoring period, but lower than the 2011 baseline.
- Speed data for the reported monitoring period was recorded, but was deemed to be unreliable for the purposes of this report.

#### 4.11.1 Monthly Average Traffic Flows

**Table 4-41 Site: JTC00604 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00604	A71 Calder Road (Riccarton)	Aug-11	8,559	7,874	16,434
		Aug-15	8,577	7,876	16,453
		Sep-15	8,394	7,781	16,175
		Oct-15	8,001	7,494	15,494
		Nov-15	8,444	7,585	16,028
		Dec-15	7,688	6,984	14,672
		Jan-16	7,380	6,737	14,117
		Feb-16	8,315	7,392	15,708
		Mar-16	7,539	6,901	14,440
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	No Data	No Data	No Data
		Jul-16	No Data	No Data	No Data
		Aug-16	No Data	No Data	No Data
		Sep-16	No Data	No Data	No Data
		<b>Annual Average</b>	<b>8,042</b>	<b>7,344</b>	<b>15,386</b>

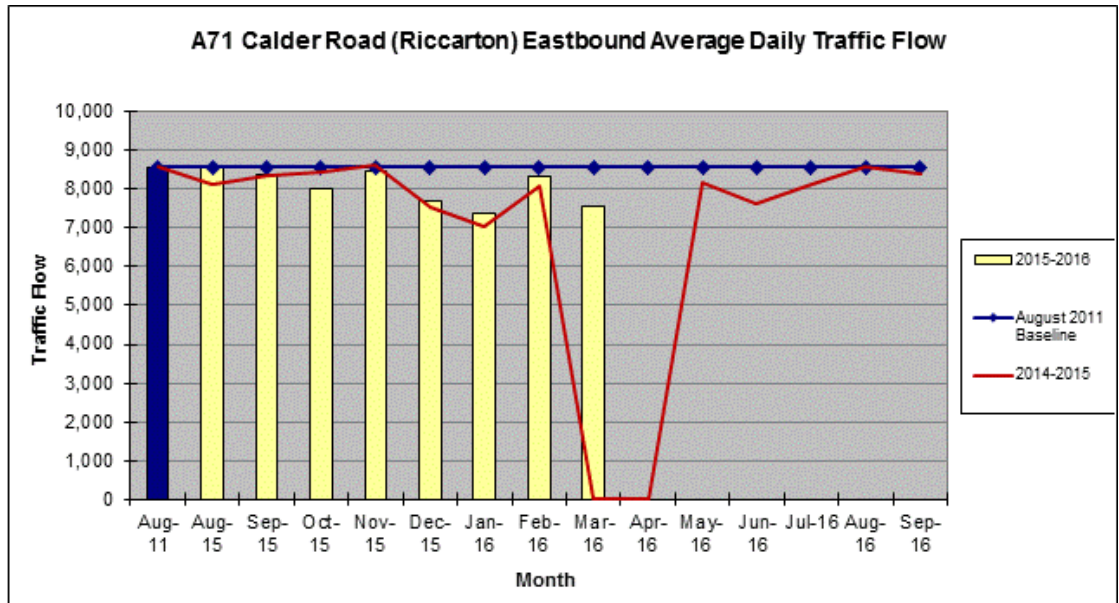


Figure 4-71 Monthly AADTs on the A71 Calder Road (Riccarton)

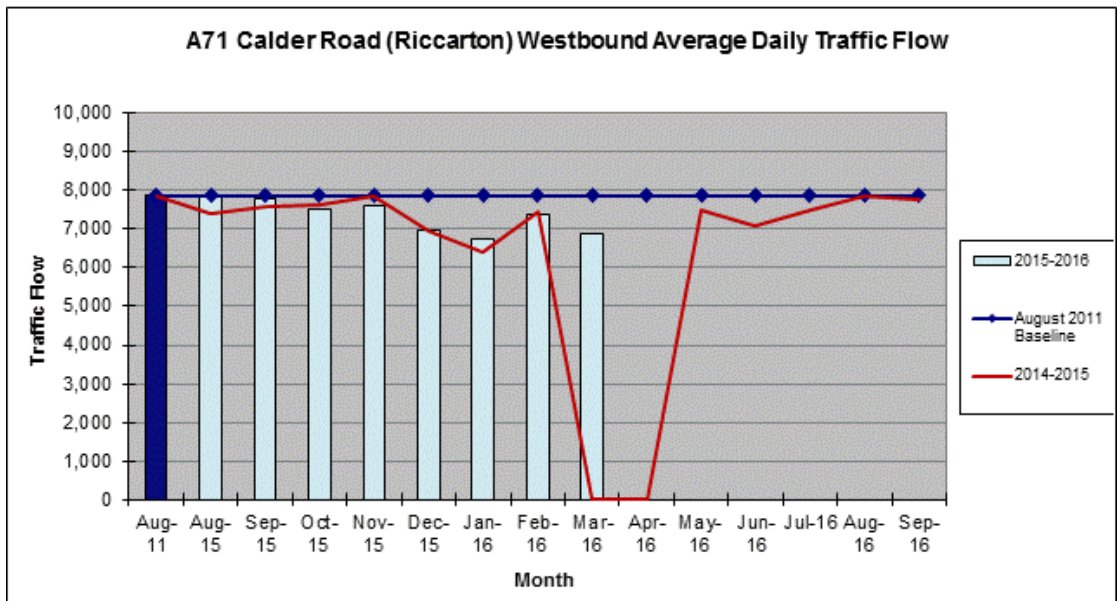


Figure 4-72 Monthly AADTs on the A71 Calder Road (Riccarton)

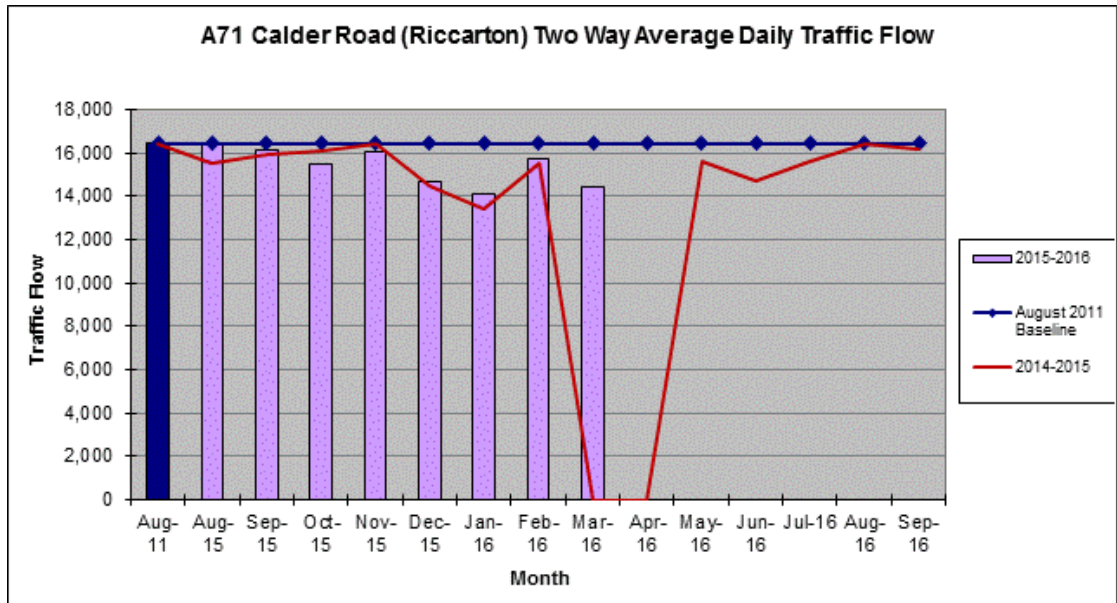


Figure 4-73 Monthly Two Way Daily Traffic Flows on the A71 Calder Road (Riccarton)

#### 4.11.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-42 Site: JTC00604 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00604	A71 Calder Road (Riccarton)	Aug-11	3,332	4,258
		Aug-15	3,160	4,298
		Sep-15	3,326	4,300
		Oct-15	3,053	3,958
		Nov-15	3,294	4,127
		Dec-15	2,746	3,453
		Jan-16	2,740	3,594
		Feb-16	3,326	4,025
		Mar-16	2,771	3,520
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>3,052</b>	<b>3,909</b>	

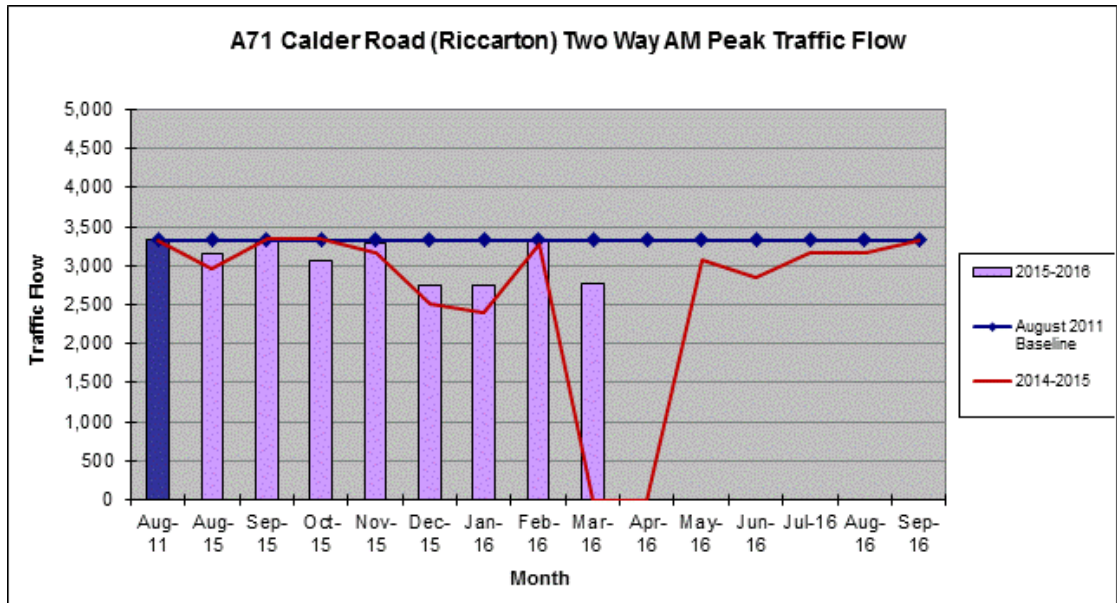


Figure 4-74 Monthly Two Way AM Peak Flows on the A71 Calder Road (Riccarton)

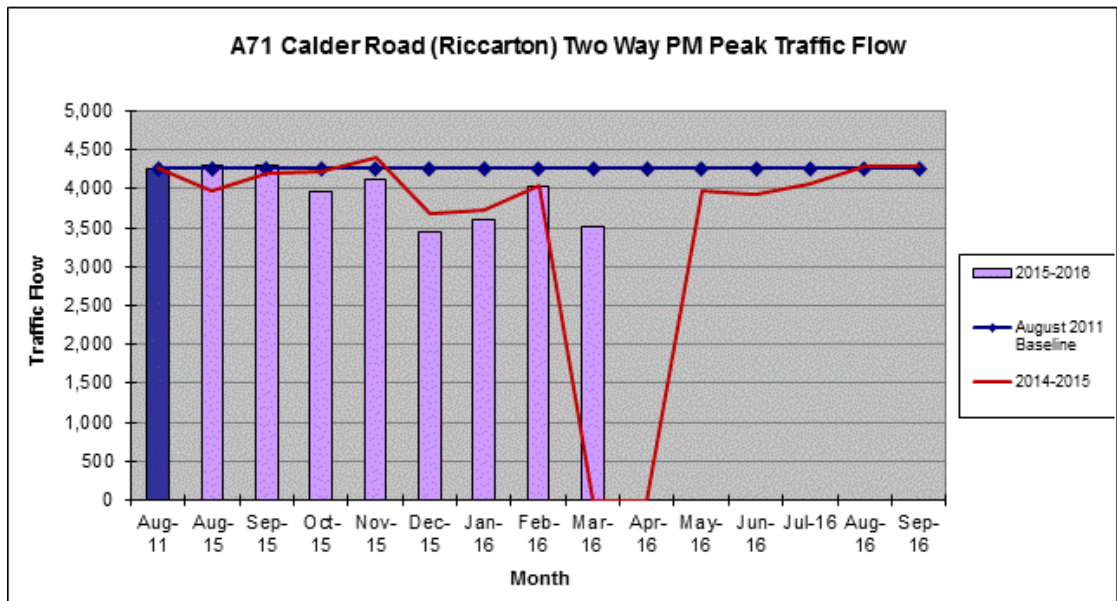


Figure 4-75 Monthly Two Way PM Peak Flows on the A71 Calder Road (Riccarton)

### 4.11.3 Monthly Average HGV Flows

Table 4-43 Site: JTC00604 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00604	A71 Calder Road (Riccarton)	Aug-11	230
		Aug-15	270
		Sep-15	280
		Oct-15	268
		Nov-15	256
		Dec-15	215
		Jan-16	241
		Feb-16	263
		Mar-16	268
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	

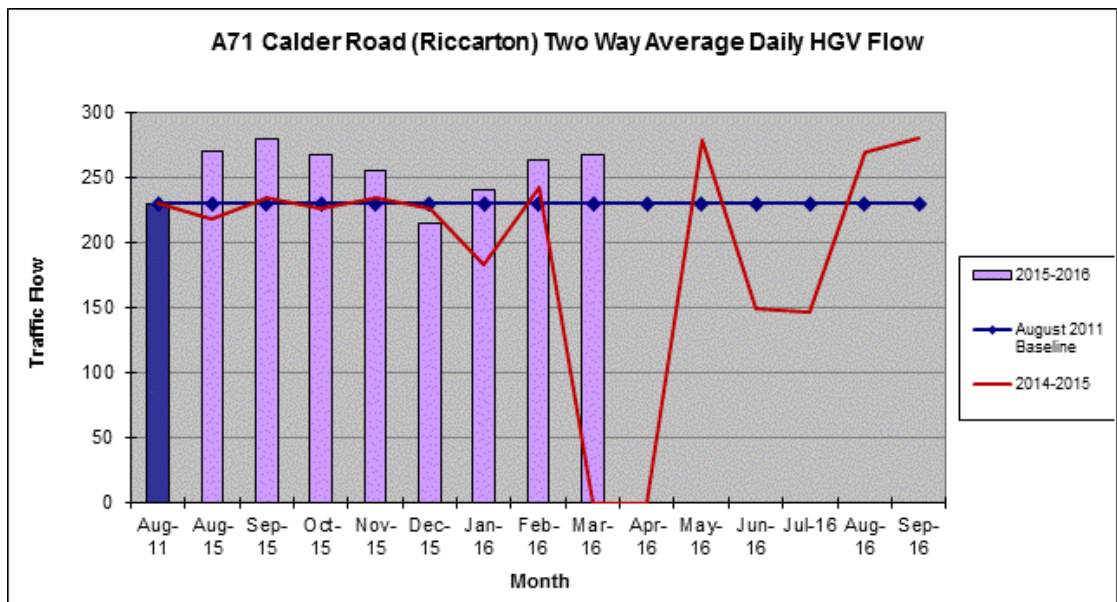


Figure 4-76 Monthly Two Way HGV Traffic Flows on the A71 Calder Road (Riccarton)

## 4.12 Traffic Counter JTC00606 - A876 Kincardine Bridge

Summary of statistics between August 2015 and September 2016:

- FRB closure caused an increase in traffic as this counter is one of the main diversion routes. The increase in HGVs remained into January 2016 and February 2016, due to restrictions in place on the FRB.
- Traffic flows were lower than average in July 2016 due to water proofing works.
- Site active throughout the monitoring period but prone to producing unreliable data.

### 4.12.1 Monthly Average Traffic Flows

**Table 4-44 Site: JTC00606 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00606	A876 Kincardine Bridge	Aug-11	6,141	5,833	11,974
		Aug-15	7,170	6,693	13,863
		Sep-15	7,374	6,743	14,117
		Oct-15	7,351	6,564	13,915
		Nov-15	No Data	No Data	No Data
		Dec-15	9,632	9,662	19,294
		Jan-16	7,375	6,620	13,995
		Feb-16	7,735	7,013	14,747
		Mar-16	7,509	6,926	14,435
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	No Data	No Data	No Data
		Jul-16	6,137	5,380	11,517
		Aug-16	7,208	6,654	13,862
		Sep-16	7,739	7,117	14,856
	<b>Annual Average</b>	<b>7,535</b>	<b>6,950</b>	<b>14,486</b>	

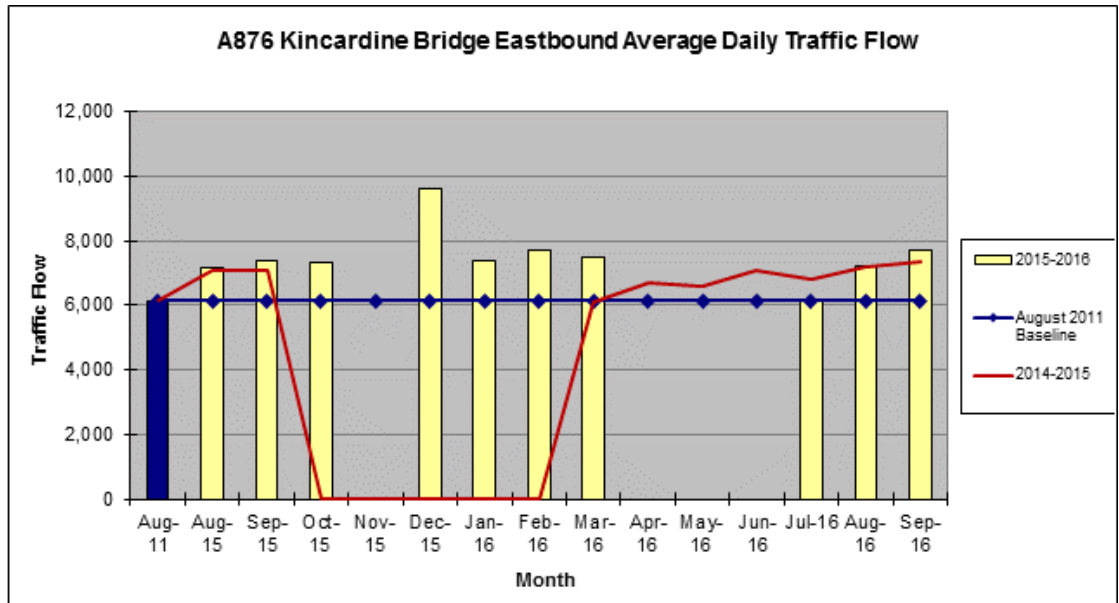


Figure 4-77 Monthly AADTs on the A876 Kincardine Bridge

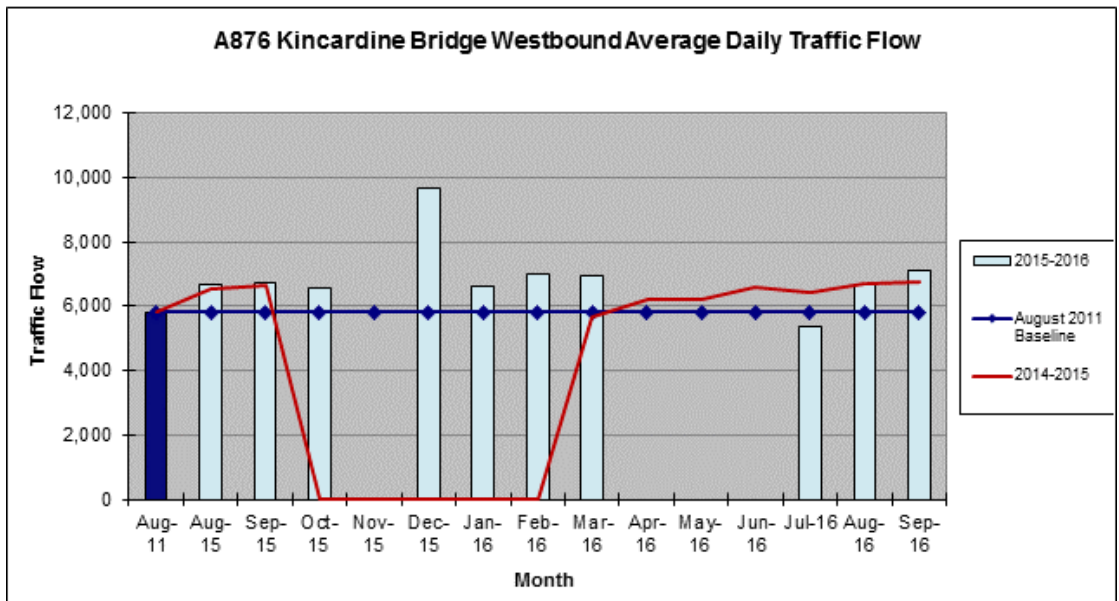


Figure 4-78 Monthly AADTs on the A876 Kincardine Bridge



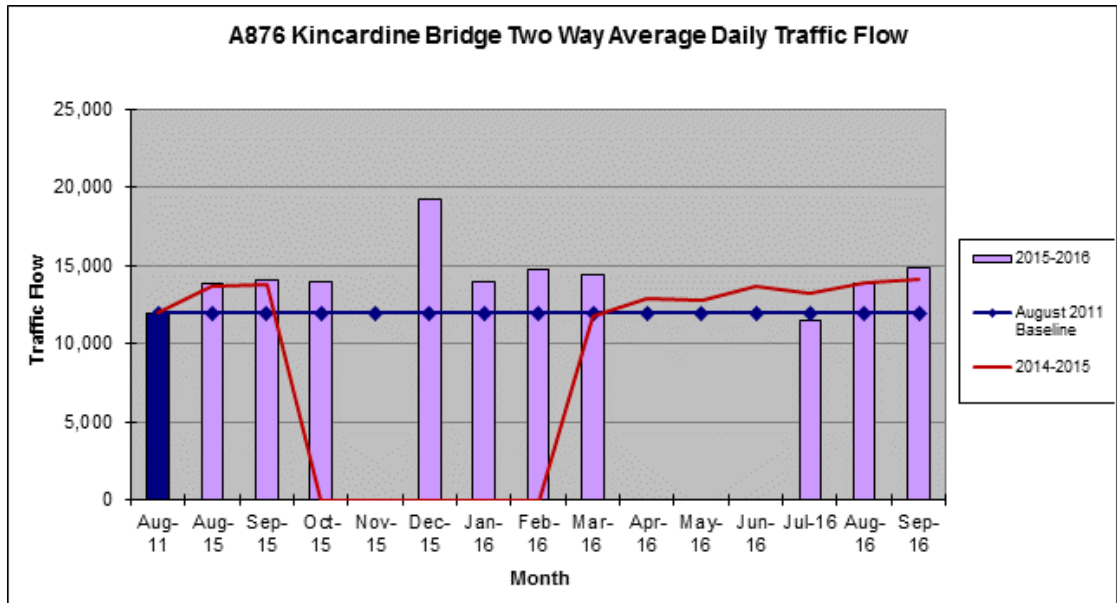


Figure 4-79 Monthly Two Way Daily Traffic Flows on the A876 Kincardine Bridge

#### 4.12.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-45 Site: JTC00606 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00606	A876 Kincardine Bridge	Aug-11	2,533	2,972
		Aug-15	2,231	2,896
		Sep-15	2,369	3,026
		Oct-15	2,270	2,815
		Nov-15	No Data	No Data
		Dec-15	2,775	4,241
		Jan-16	2,818	3,214
		Feb-16	2,947	3,559
		Mar-16	2,823	3,578
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	1,825	2,169
		Aug-16	2,238	2,774
		Sep-16	2,463	3,032
	<b>Annual Average</b>	<b>2,507</b>	<b>3,187</b>	

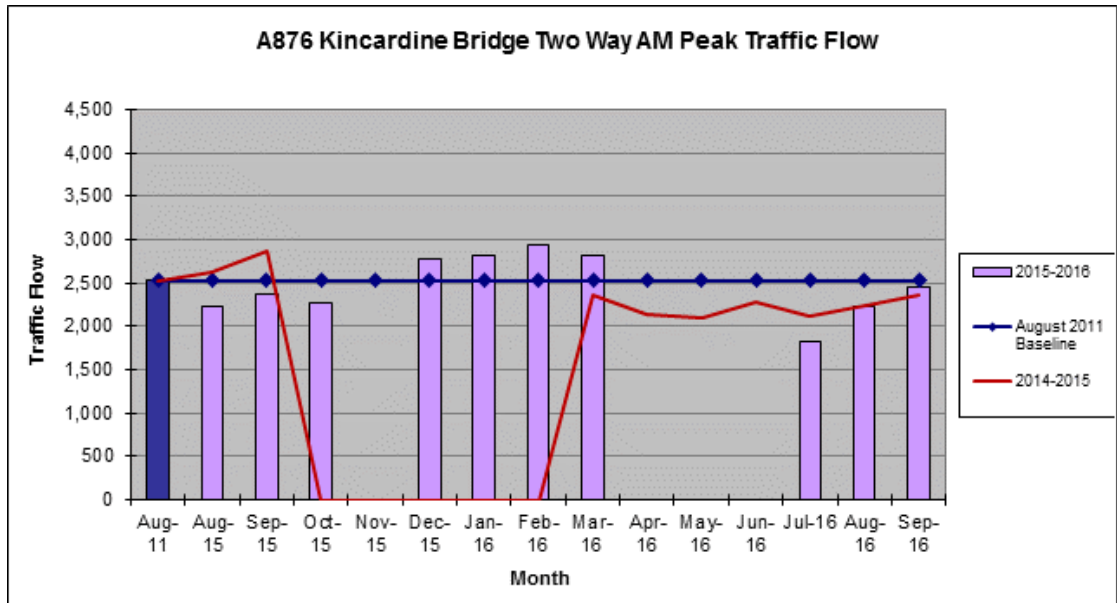


Figure 4-80 Monthly Two Way AM Peak Flows on the A876 Kincardine Bridge

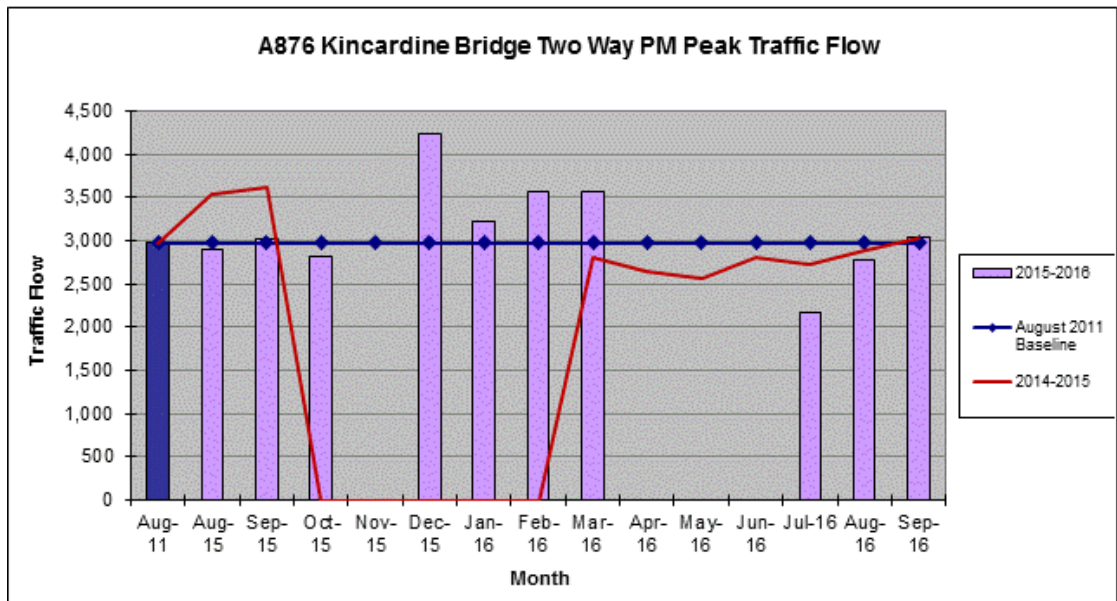


Figure 4-81 Monthly Two Way PM Peak Flows on the A876 Kincardine Bridge

### 4.12.3 Monthly Average HGV Flows

Table 4-46 Site: JTC00606 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00606	A876 Kincardine Bridge	Aug-11	442
		Aug-15	473
		Sep-15	540
		Oct-15	587
		Nov-15	No Data
		Dec-15	2,191
		Jan-16	1,622
		Feb-16	1,415
		Mar-16	593
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	393
		Aug-16	492
		Sep-16	565

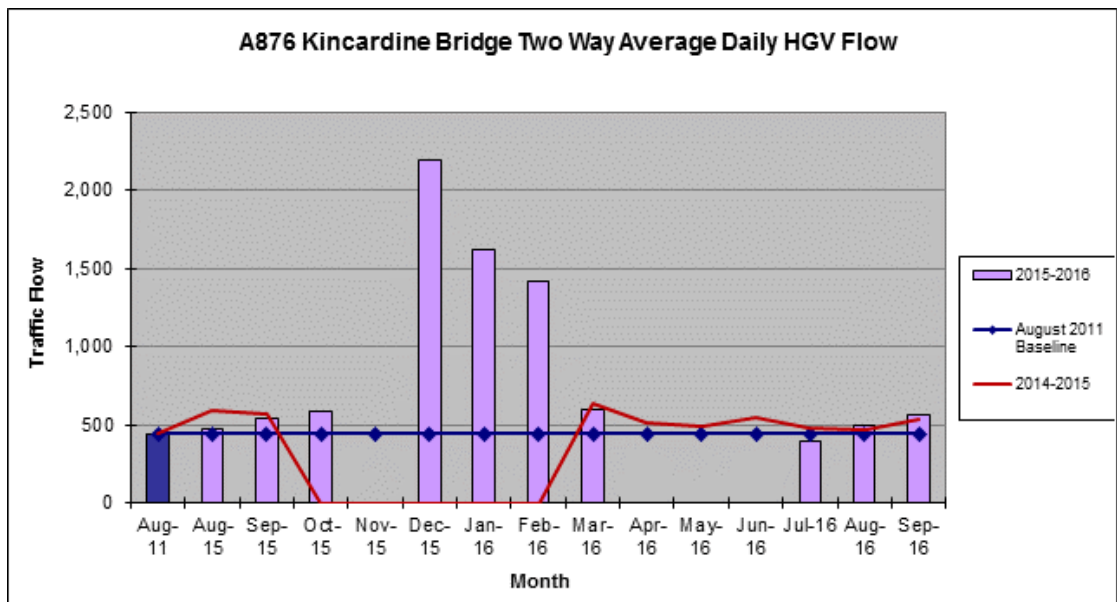
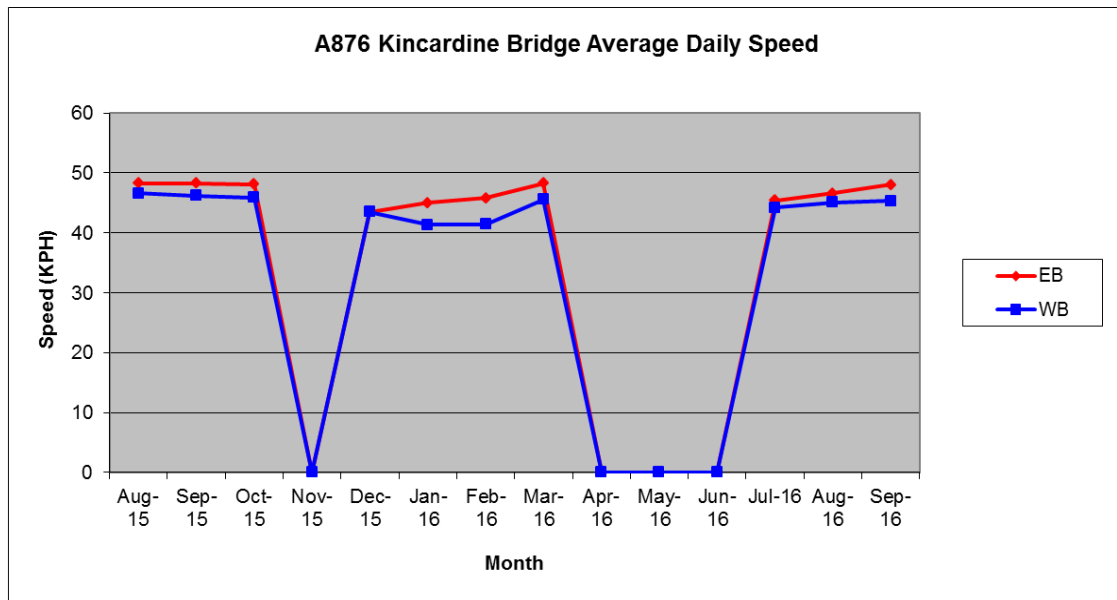


Figure 4-82 Monthly Two Way HGV Traffic Flows on the A876 Kincardine Bridge

### 4.12.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-47 Site: JTC00606 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00606	A876 Kincardine Bridge	Aug-15	48	47
		Sep-15	48	46
		Oct-15	48	46
		Nov-15	No Data	No Data
		Dec-15	44	44
		Jan-16	45	41
		Feb-16	46	41
		Mar-16	48	46
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	45	44
		Aug-16	47	45
		Sep-16	48	45



**Figure 4-83 Average Monthly Traffic Speeds (KPH) on the A876 Kincardine Bridge**

### 4.13 Traffic Counter JTC00607 - A9 Causewayhead Road (Stirling)

Summary of statistics between August 2015 and September 2016:

- Traffic flows are consistent with the previous monitoring period as well as the 2011 baseline, with the exceptions of January 2016 and July 2016.

#### 4.13.1 Monthly Average Traffic Flows

**Table 4-48 Site: JTC00607 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00607	A9 Causewayhead Road (Stirling)	Aug-11	10,750	11,136	21,886
		Aug-15	10,747	10,777	21,524
		Sep-15	11,176	11,742	22,918
		Oct-15	10,957	11,462	22,419
		Nov-15	10,898	11,401	22,299
		Dec-15	11,266	11,541	22,806
		Jan-16	8,932	9,004	17,936
		Feb-16	10,986	11,440	22,426
		Mar-16	11,293	11,912	23,206
		Apr-16	10,971	11,506	22,476
		May-16	11,036	11,609	22,645
		Jun-16	10,885	11,303	22,188
		Jul-16	10,124	10,442	20,566
		Aug-16	10,735	11,262	21,997
Sep-16	11,134	11,916	23,050		
		<b>Annual Average</b>	<b>10,773</b>	<b>11,178</b>	<b>21,951</b>

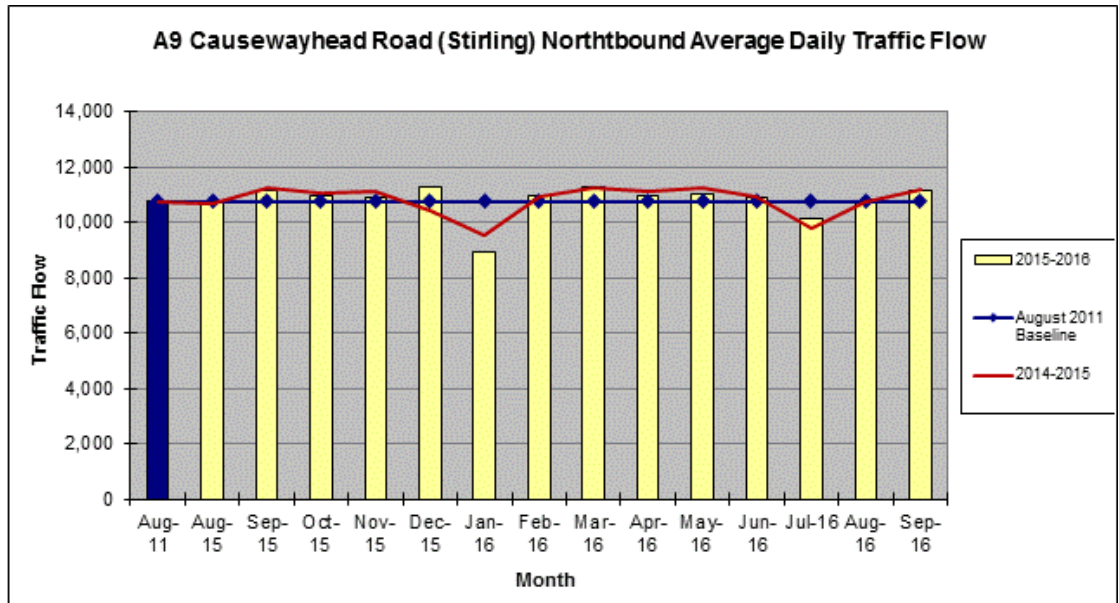


Figure 4-84 Monthly AADTs on the A9 Causewayhead Road (Stirling)

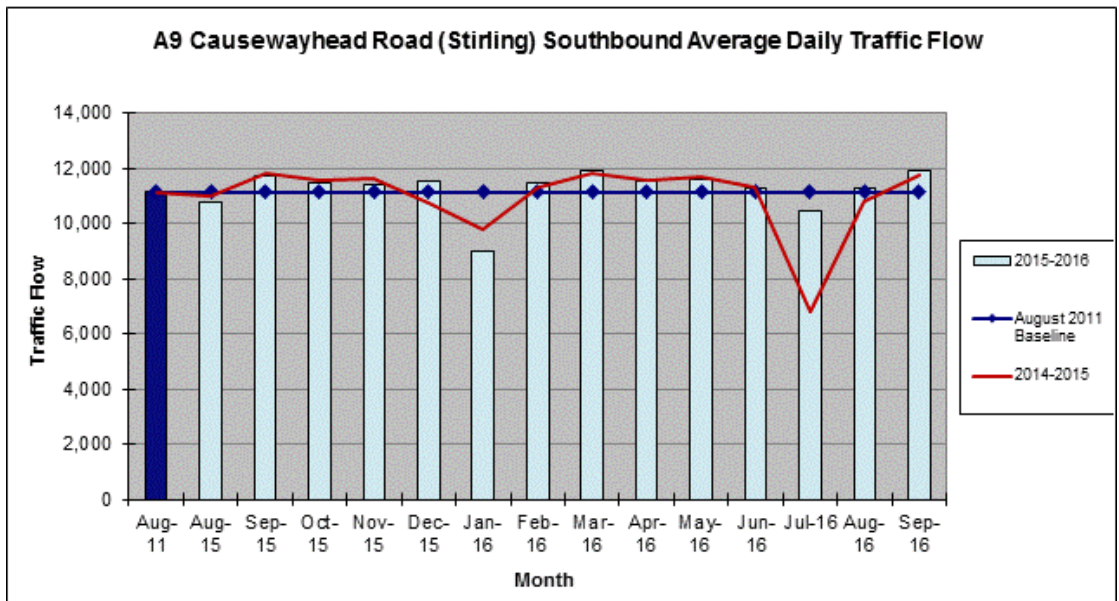


Figure 4-85 Monthly AADTs on the A9 Causewayhead Road (Stirling)

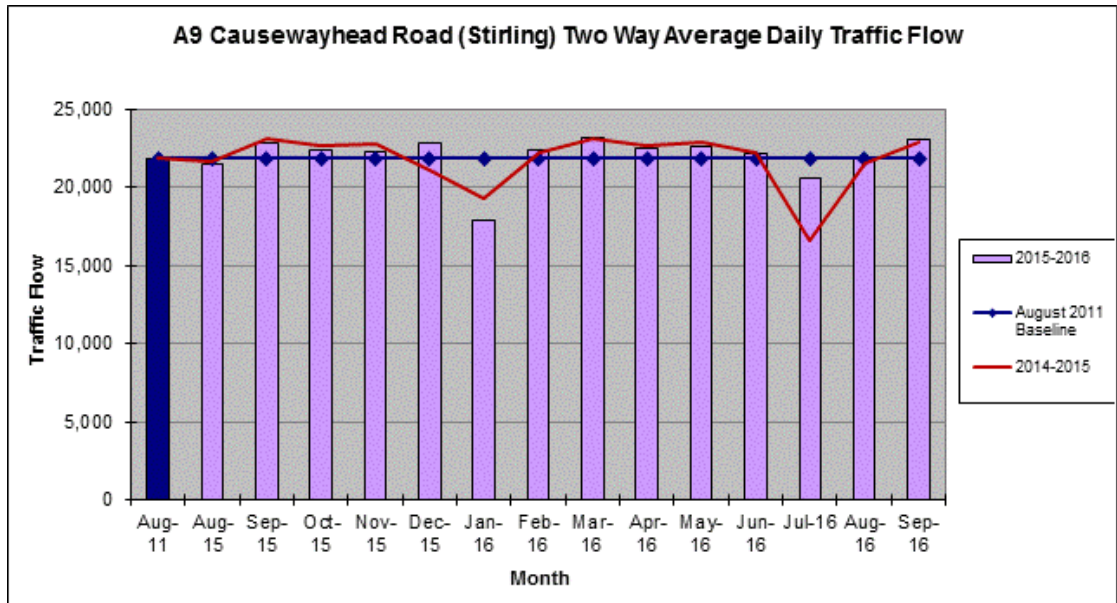


Figure 4-86 Monthly Two Way Daily Traffic Flows on the A9 Causewayhead Road (Stirling)

### 4.13.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-49 Site: JTC00607 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00607	A9 Causewayhead Road (Stirling)	Aug-11	3,373	5,072
		Aug-15	3,287	4,940
		Sep-15	3,774	5,205
		Oct-15	3,468	5,113
		Nov-15	2,570	5,266
		Dec-15	2,675	5,195
		Jan-16	2,262	4,018
		Feb-16	3,646	5,099
		Mar-16	3,758	5,111
		Apr-16	3,952	4,586
		May-16	4,055	4,615
		Jun-16	4,044	4,483
		Jul-16	3,480	4,137
		Aug-16	3,857	4,490
Sep-16	4,157	4,712		
	<b>Annual Average</b>	<b>3,414</b>	<b>4,814</b>	

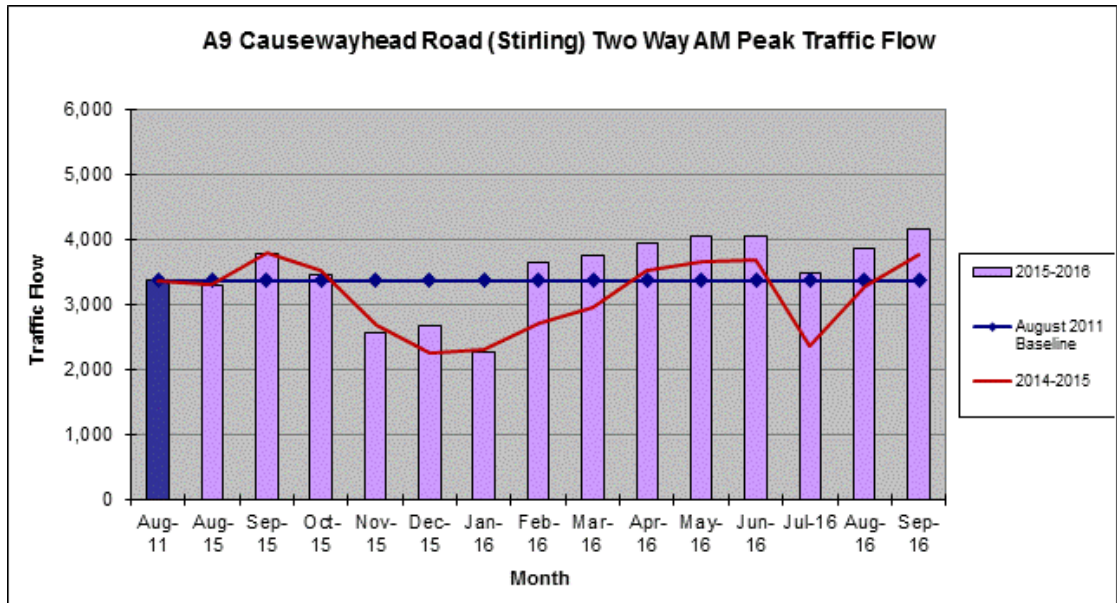


Figure 4-87 Monthly Two Way AM Peak Flows on the A9 Causewayhead Road (Stirling)

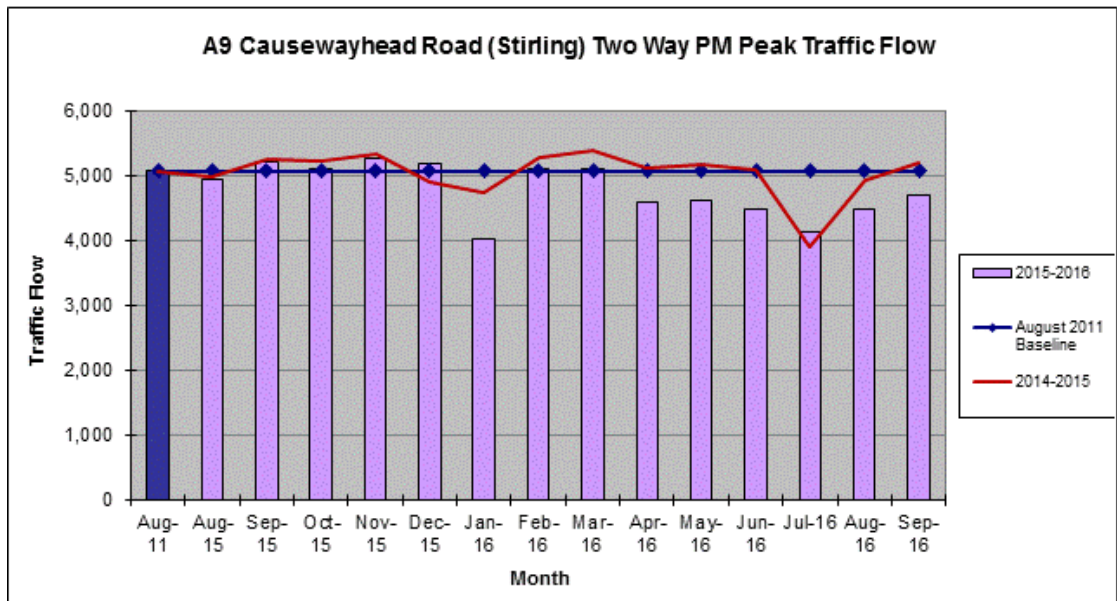


Figure 4-88 Monthly Two Way PM Peak Flows on the A9 Causewayhead Road (Stirling)



### 4.13.3 Monthly Average HGV Flows

Table 4-50 Site: JTC00607 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00607	A9 Causewayhead Road (Stirling)	Aug-11	488
		Aug-15	414
		Sep-15	467
		Oct-15	509
		Nov-15	458
		Dec-15	501
		Jan-16	352
		Feb-16	551
		Mar-16	564
		Apr-16	555
		May-16	544
		Jun-16	483
		Jul-16	485
		Aug-16	470
		Sep-16	466
		<b>Annual Average</b>	<b>490</b>

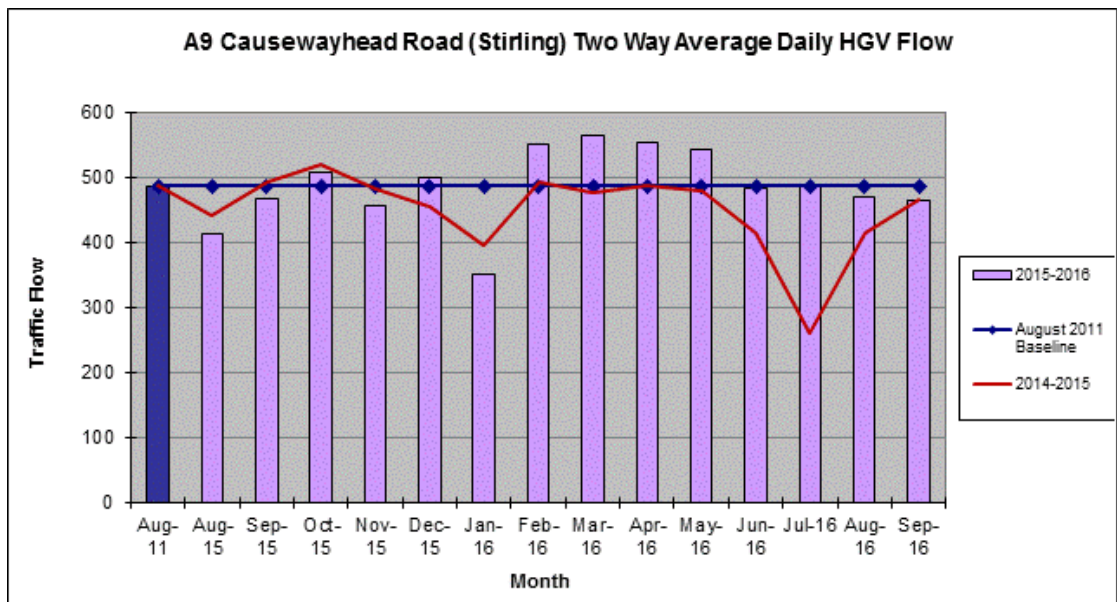
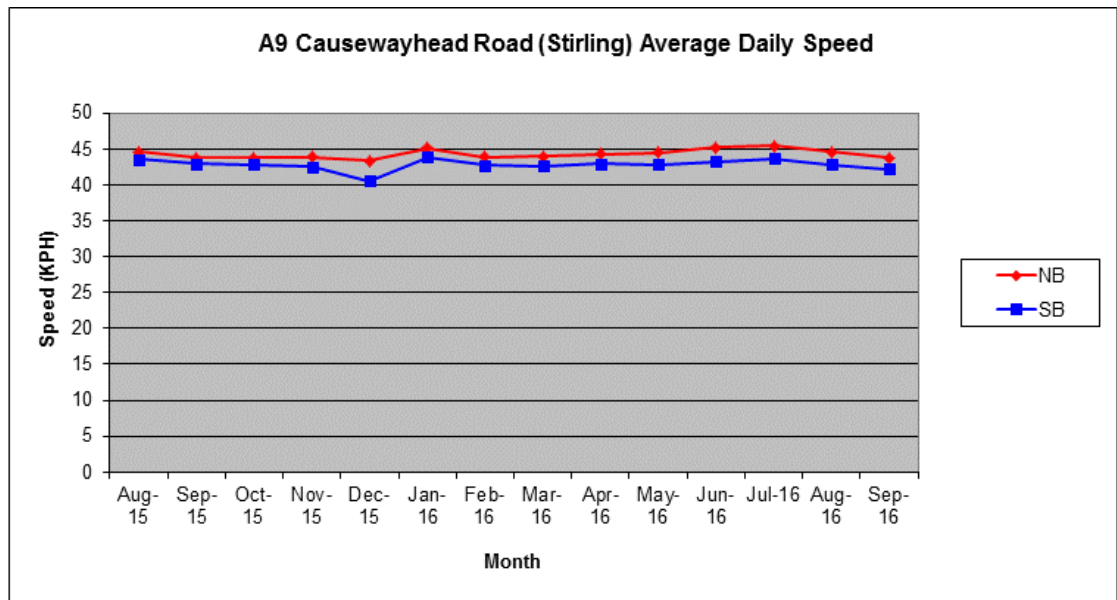


Figure 4-89 Monthly Two Way HGV Traffic Flows on the A9 Causewayhead Road (Stirling)

### 4.13.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-51 Site: JTC00607 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00607	A9 Causewayhead Road (Stirling)	Aug-15	45	44
		Sep-15	44	43
		Oct-15	44	43
		Nov-15	44	42
		Dec-15	43	41
		Jan-16	45	44
		Feb-16	44	43
		Mar-16	44	43
		Apr-16	44	43
		May-16	45	43
		Jun-16	45	43
		Jul-16	45	44
		Aug-16	45	43
		Sep-16	44	42



**Figure 4-90 Average Monthly Traffic Speeds (KPH) on the A9 Causewayhead Road (Stirling)**

#### 4.14 Traffic Counter JTC00608 - A904 Old Philpstoun

Summary of statistics between August 2015 and September 2016:

- Traffic flows are consistent with those of the previous monitoring period.
- This counter has been experiencing intermittent problems, recording unreliable data during some months.

##### 4.14.1 Monthly Average Traffic Flows

**Table 4-52 Site: JTC00608 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00608	A904 Old Philpstoun	Aug-11	2,426	2,444	4,870
		Aug-15	2,365	2,412	4,777
		Sep-15	2,292	2,297	4,589
		Oct-15	2,159	2,181	4,340
		Nov-15	2,093	2,078	4,171
		Dec-15	1,707	1,770	3,477
		Jan-16	No Data	No Data	No Data
		Feb-16	No Data	No Data	No Data
		Mar-16	2,369	2,329	4,699
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	2,405	2,514	4,919
		Jul-16	2,127	2,189	4,315
		Aug-16	2,188	2,250	4,438
		Sep-16	2,337	2,331	4,668
	<b>Annual Average</b>	<b>2,190</b>	<b>2,221</b>	<b>4,411</b>	

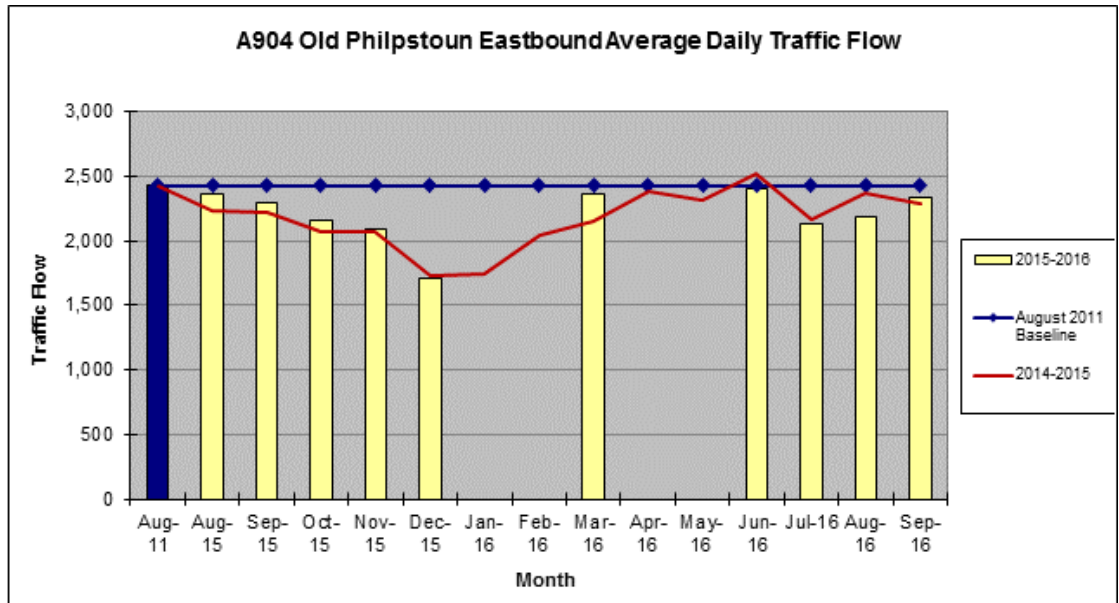


Figure 4-91 Monthly AADTs on the A904 Old Philpstoun

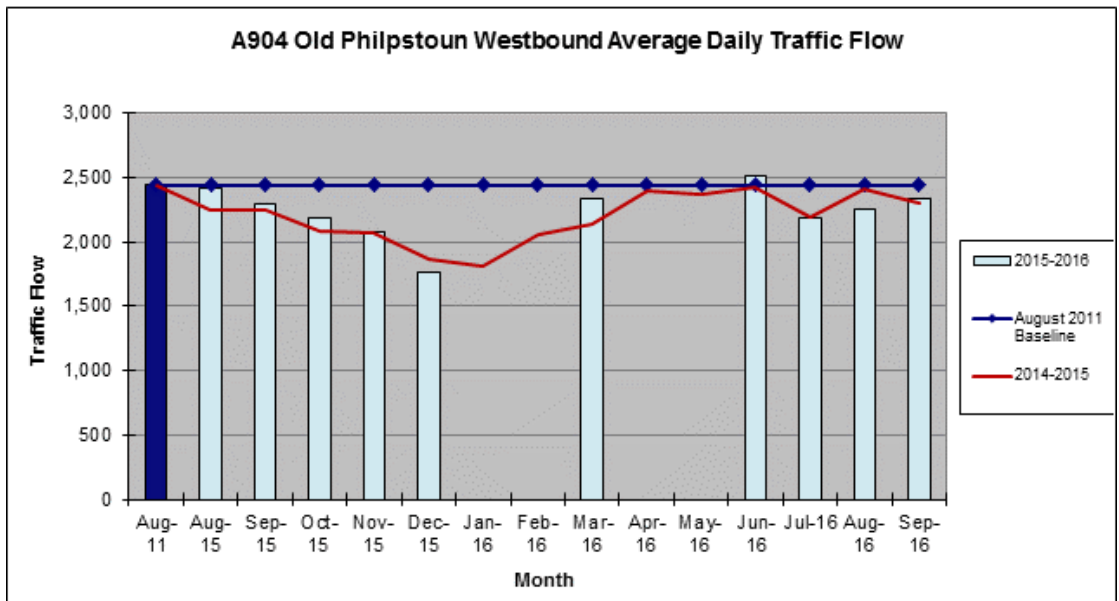


Figure 4-92 Monthly AADTs on the A904 Old Philpstoun

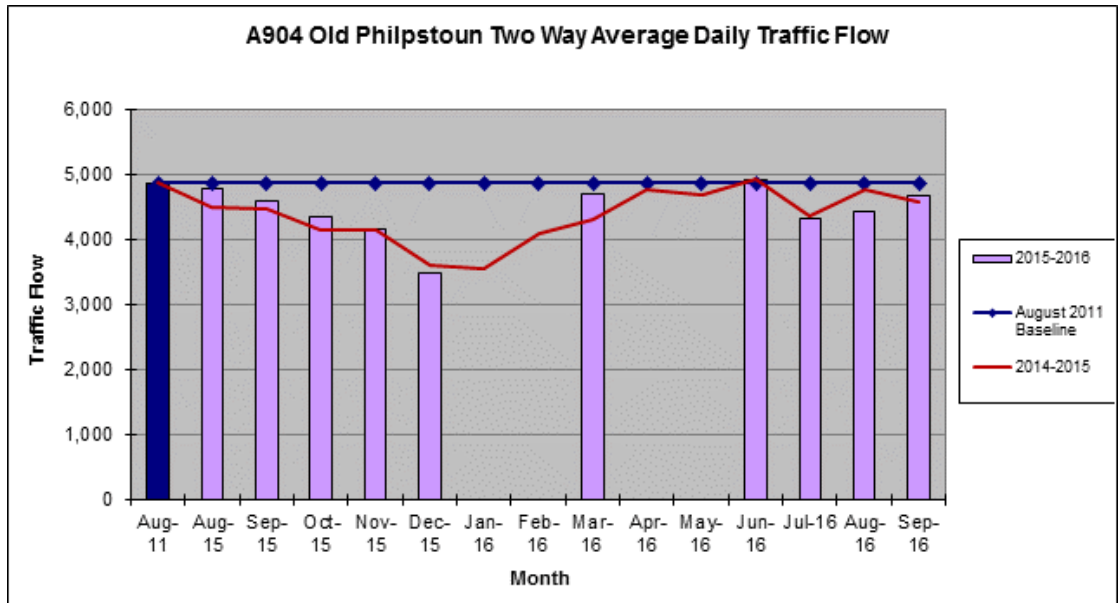


Figure 4-93 Monthly Two Way Daily Traffic Flows on the A904 Old Philpstoun

#### 4.14.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-53 Site: JTC00608 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00608	A904 Old Philpstoun	Aug-11	854	1,174
		Aug-15	729	1,047
		Sep-15	769	1,017
		Oct-15	749	940
		Nov-15	754	984
		Dec-15	557	802
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	836	1,093
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	825	1,133
		Jul-16	596	1,004
		Aug-16	692	1,036
		Sep-16	794	1,094
	<b>Annual Average</b>	<b>727</b>	<b>1,003</b>	

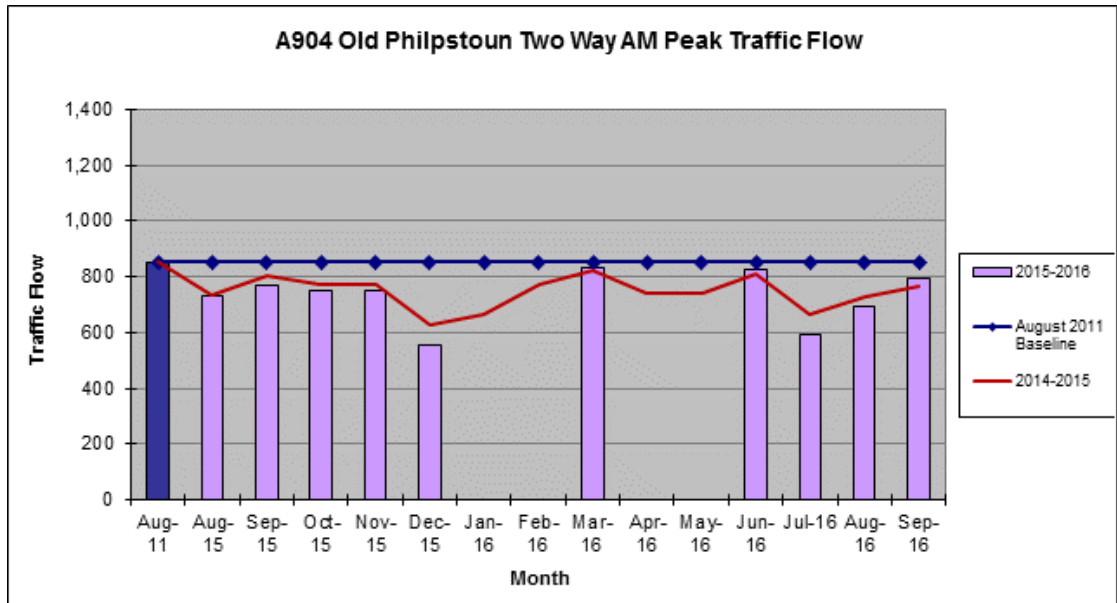


Figure 4-94 Monthly Two Way AM Peak Flows on the A904 Old Philpstoun

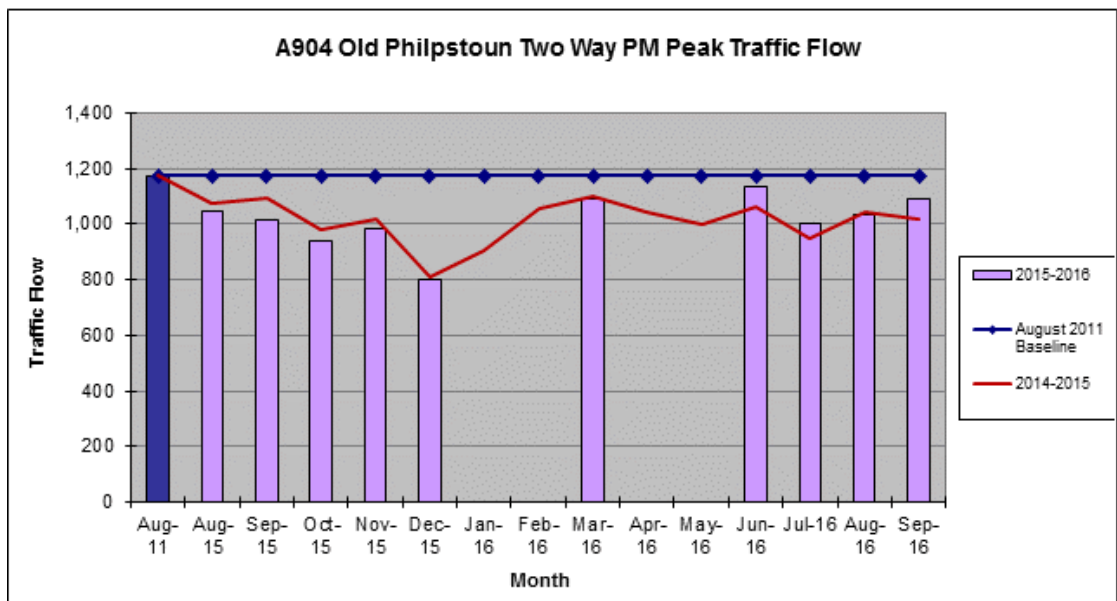


Figure 4-95 Monthly Two Way PM Peak Flows on the A904 Old Philpstoun

### 4.14.3 Monthly Average HGV Flows

Table 4-54 Site: JTC00608 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00608	A904 Old Philpstoun	Aug-11	58
		Aug-15	36
		Sep-15	39
		Oct-15	33
		Nov-15	35
		Dec-15	14
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	30
		Apr-16	No Data
		May-16	No Data
		Jun-16	39
		Jul-16	26
		Aug-16	32
		Sep-16	36

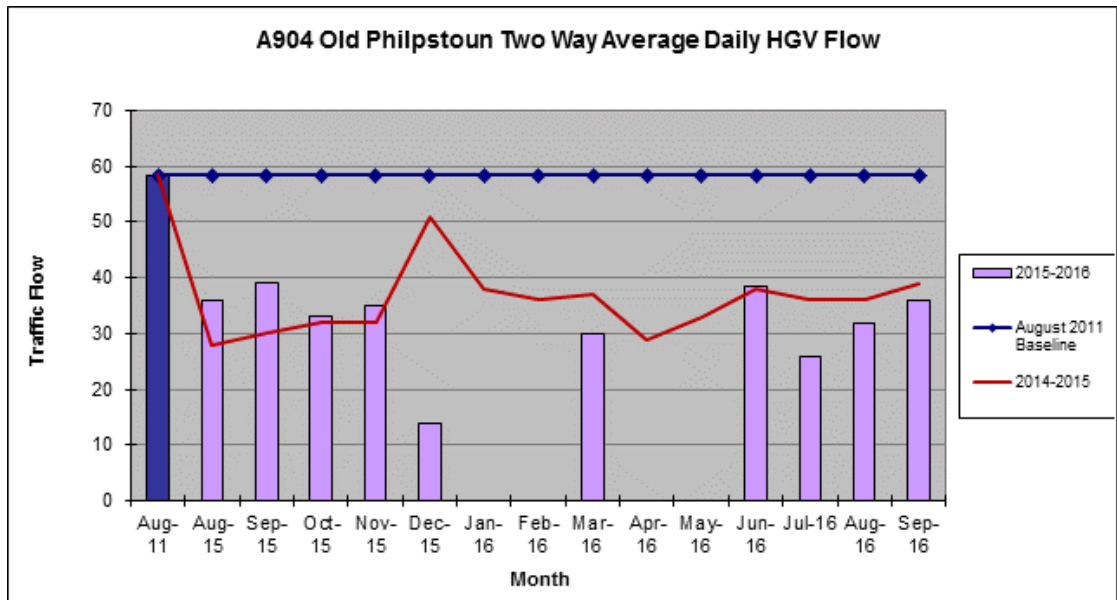
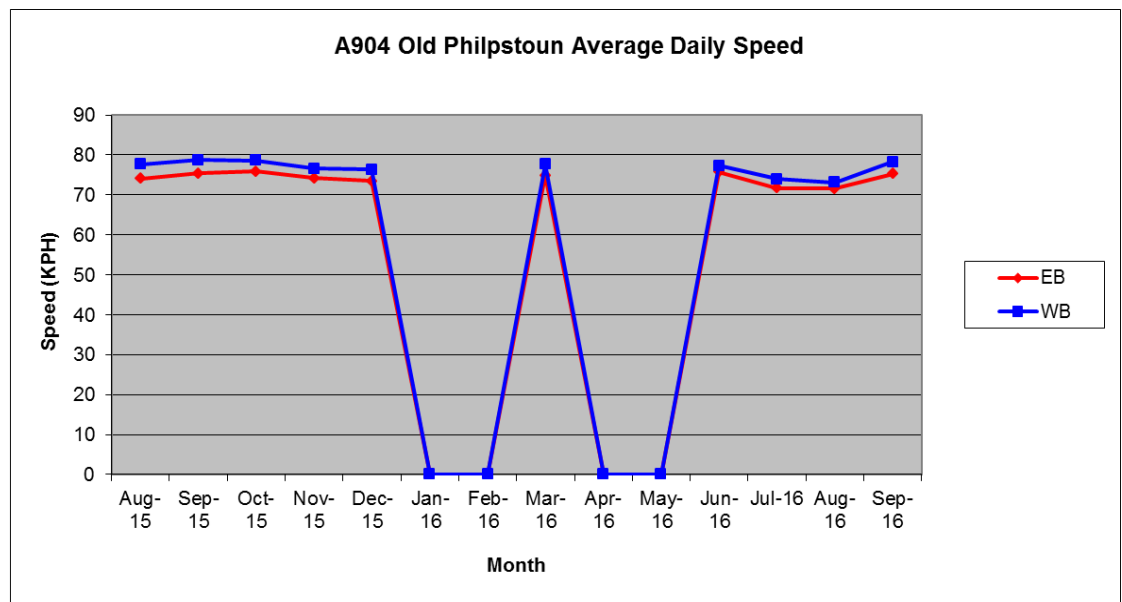


Figure 4-96 Monthly Two Way HGV Traffic Flows on the A904 Old Philpstoun

#### 4.14.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-55 Site: JTC00608 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00608	A904 Old Philpstoun	Aug-15	74	78
		Sep-15	75	79
		Oct-15	76	79
		Nov-15	74	77
		Dec-15	73	76
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	75	78
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	76	77
		Jul-16	72	74
		Aug-16	72	73
		Sep-16	75	78



**Figure 4-97 Average Monthly Traffic Speeds (KPH) on the A904 Old Philpstoun**



### 4.15 Traffic Counter JTC08347 - A90 Echline Junction (Main Carriageway) Northbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows are consistent with the previous monitoring period and the 2011 baseline, with the exceptions of December 2015, January 2016 and February 2016.

#### 4.15.1 Monthly Average Traffic Flows

**Table 4-56 Site: JTC08347 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
JTC08347	A90 Echline Junction (Main Carriageway) Northbound	Aug-11	27,732
		Aug-15	30,400
		Sep-15	29,585
		Oct-15	28,392
		Nov-15	27,098
		Dec-15	6,935
		Jan-16	22,020
		Feb-16	25,261
		Mar-16	27,392
		Apr-16	27,677
		May-16	28,083
		Jun-16	28,633
		Jul-16	28,787
		Aug-16	29,910
		Sep-16	28,785
		<b>Annual Average</b>	<b>25,855</b>

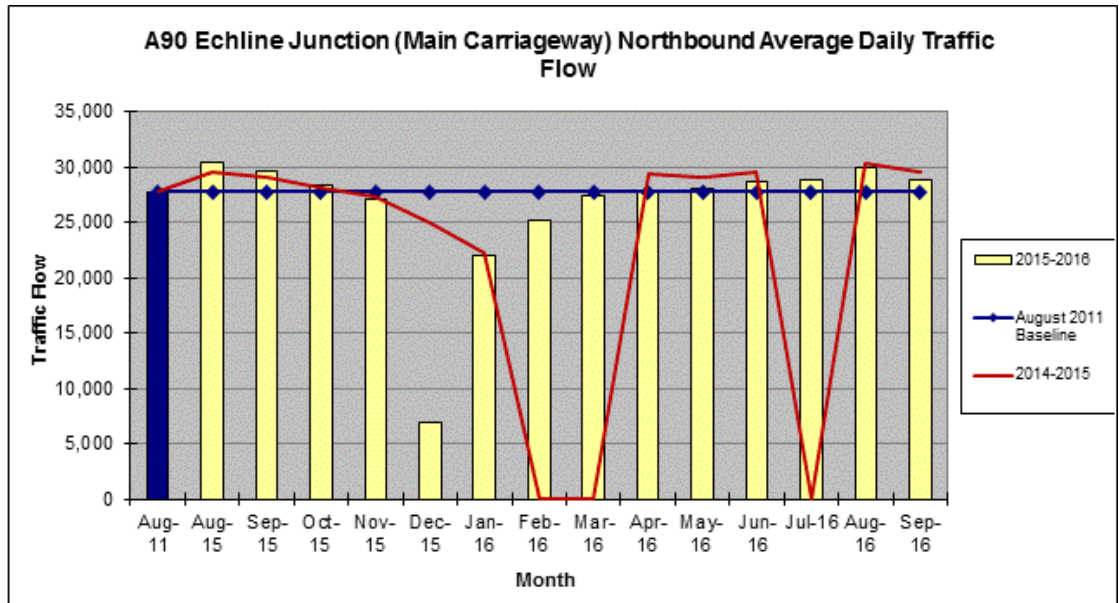


Figure 4-98 Monthly AADTs on the A90 Echline Junction (Main Carriageway) Northbound

#### 4.15.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-57 Site: JTC08347 Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC08347	A90 Echline Junction (Main Carriageway) Northbound	Aug-11	4,474	6,598
		Aug-15	5,011	6,499
		Sep-15	5,207	6,554
		Oct-15	4,983	6,257
		Nov-15	4,669	6,035
		Dec-15	825	1,436
		Jan-16	3,472	5,645
		Feb-16	4,169	6,181
		Mar-16	4,717	6,338
		Apr-16	4,564	6,276
		May-16	4,637	6,266
		Jun-16	4,795	6,318
		Jul-16	4,541	6,294
		Aug-16	4,958	6,318
Sep-16	5,049	6,360		
	<b>Annual Average</b>	<b>4,299</b>	<b>5,841</b>	

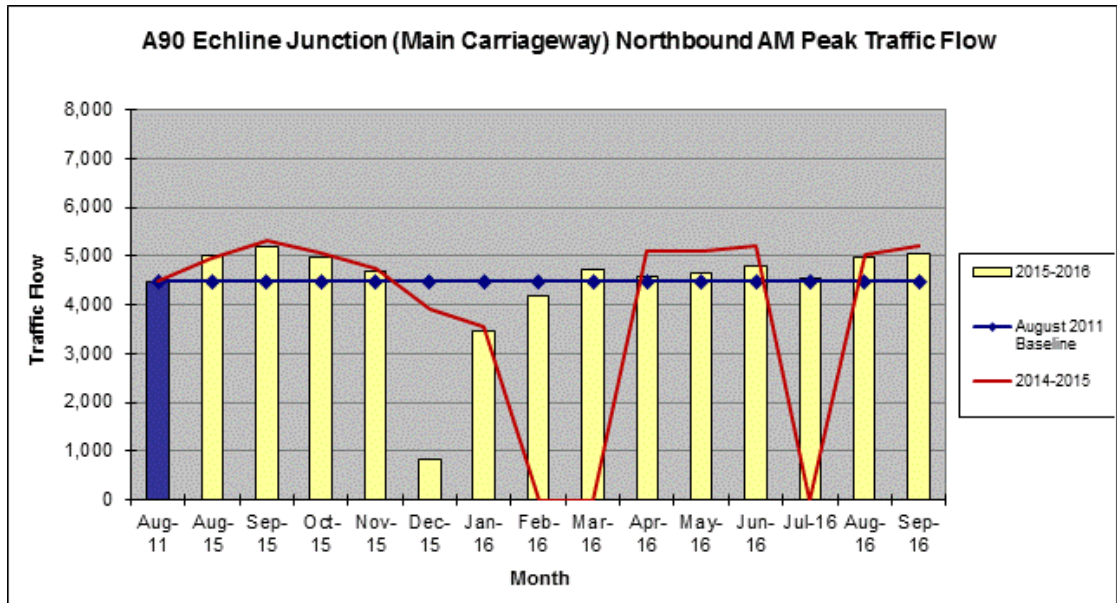


Figure 4-99 Monthly AM Peak Flows on the A90 Echline Junction (Main Carriageway) Northbound

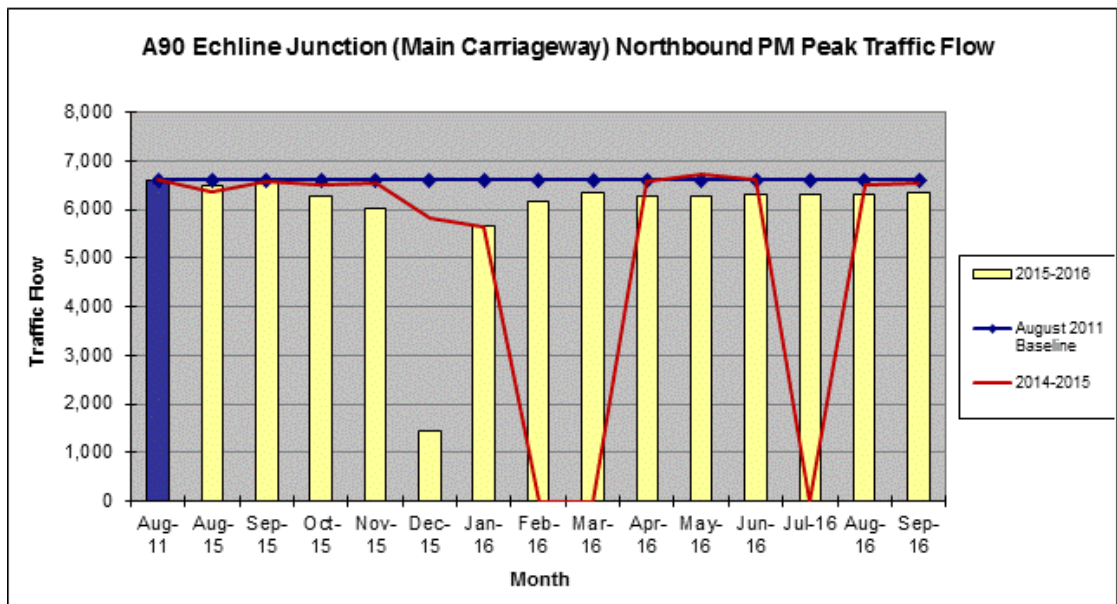


Figure 4-100 Monthly PM Peak Flows on the A90 Echline Junction (Main Carriageway) Northbound

### 4.15.3 Monthly Average HGV Flows

Table 4-58 Site: JTC08347 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	NB
JTC08347	A90 Echline Junction (Main Carriageway) Northbound	Aug-11	1,275
		Aug-15	1,359
		Sep-15	1,471
		Oct-15	1,426
		Nov-15	1,352
		Dec-15	135
		Jan-16	119
		Feb-16	490
		Mar-16	1,394
		Apr-16	1,323
		May-16	1,316
		Jun-16	1,380
		Jul-16	1,326
		Aug-16	1,427
		Sep-16	1,482
		<b>Annual Average</b>	<b>1,091</b>

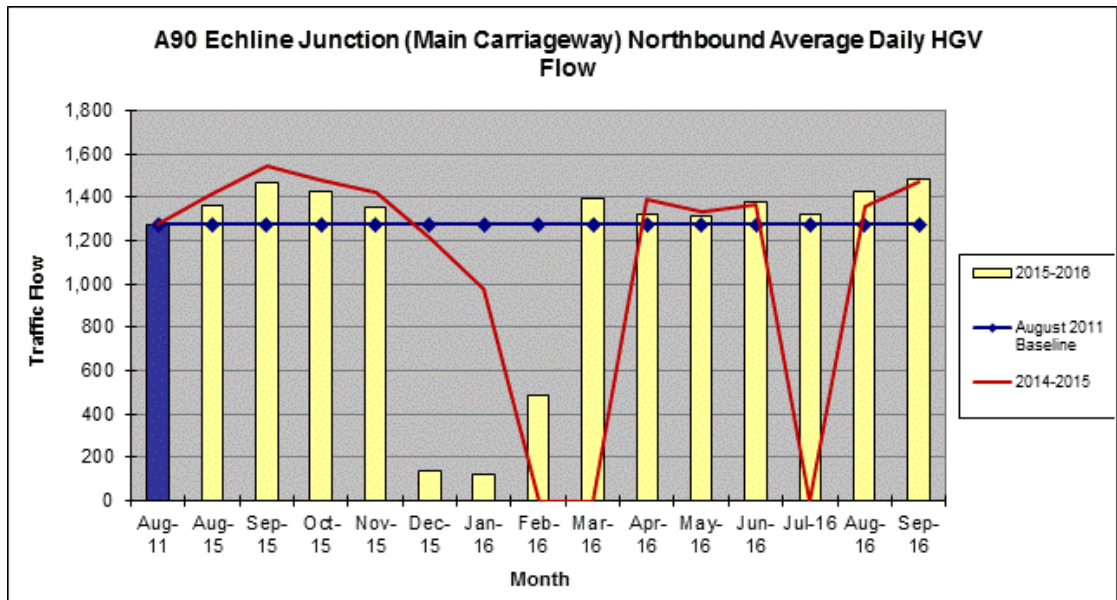
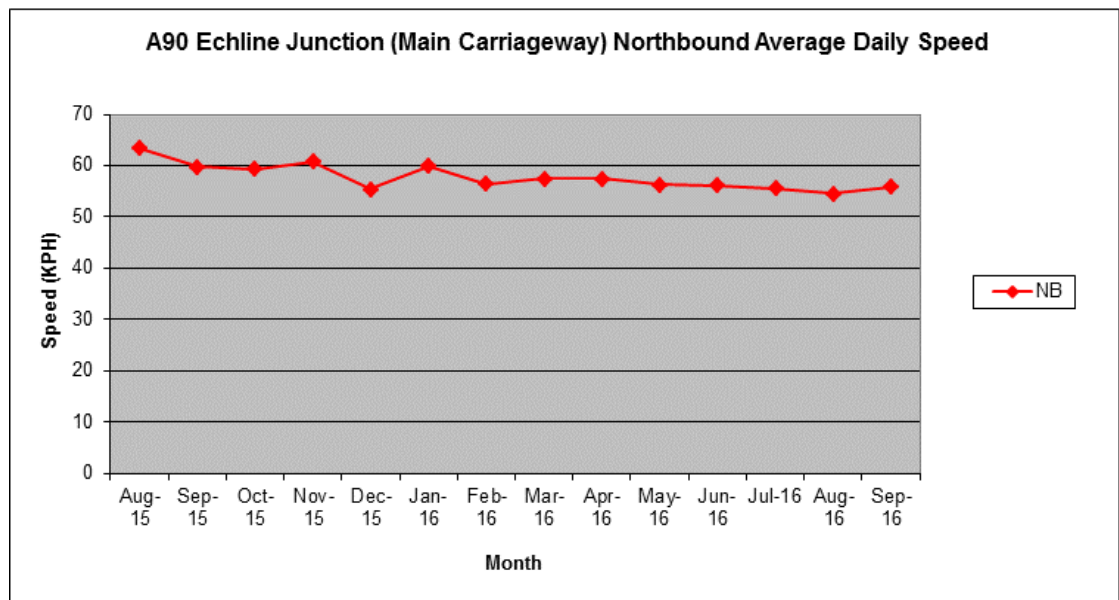


Figure 4-101 Monthly HGV Traffic Flows on the A90 Echline Junction (Main Carriageway) Northbound

### 4.15.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-59 Site: JTC08347 Average Monthly Traffic Speeds (KPH) (All Vehicles) - August 2015 to September 2016**

Counter	Location	Date	NB
JTC08347	A90 Echline Junction (Main Carriageway) Northbound	Aug-15	63
		Sep-15	60
		Oct-15	59
		Nov-15	61
		Dec-15	55
		Jan-16	60
		Feb-16	56
		Mar-16	57
		Apr-16	57
		May-16	56
		Jun-16	56
		Jul-16	56
		Aug-16	55
Sep-16	56		



**Figure 4-102 Average Monthly Traffic Speeds (KPH) on the A90 Echline Junction (Main Carriageway) Northbound**

## 4.16 Traffic Counter JTC08348 - A90 Echline Junction (Main Carriageway) Southbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- Traffic flows follow the same patterns as the previous monitoring period, but are slightly lower.
- Counter changed from Euro6 vehicle classification system to CA10 classification system in April 2016, due to the NTDS system update (see section 2.3).
- No data is available for the baseline period, therefore comparisons cannot be made.

### 4.16.1 Monthly Average Traffic Flows

*Table 4-60 Site: JTC08348 Annual Traffic Flows - August 2015 to September 2016*

Counter	Location	Date	SB
JTC08348	A90 Echline Junction (Main Carriageway) Southbound	Aug-11	No Data
		Aug-15	33,826
		Sep-15	32,987
		Oct-15	32,210
		Nov-15	30,043
		Dec-15	11,039
		Jan-16	23,862
		Feb-16	27,272
		Mar-16	29,919
		Apr-16	30,238
		May-16	30,739
		Jun-16	31,648
		Jul-16	31,735
		Aug-16	32,786
		Sep-16	32,384
	<b>Annual Average</b>	<b>28,793</b>	

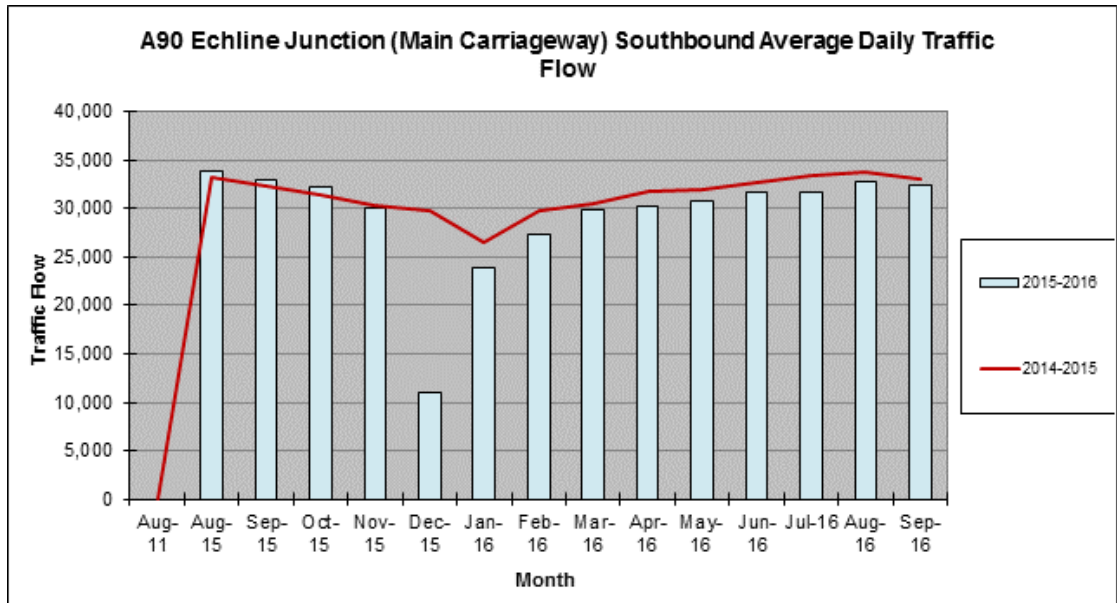


Figure 4-103 Monthly AADTs on the A90 Echline Junction (Main Carriageway) Southbound

#### 4.16.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-61 Site: JTC08348 Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC08348	A90 Echline Junction (Main Carriageway) Southbound	Aug-11	No Data	No Data
		Aug-15	6,302	7,123
		Sep-15	6,609	6,962
		Oct-15	6,442	6,700
		Nov-15	6,160	6,192
		Dec-15	1,647	1,973
		Jan-16	4,804	5,115
		Feb-16	5,605	5,846
		Mar-16	5,927	6,362
		Apr-16	5,716	6,519
		May-16	5,838	6,405
		Jun-16	6,161	6,530
		Jul-16	5,549	6,393
		Aug-16	6,222	6,804
		Sep-16	6,218	6,833
	<b>Annual Average</b>	<b>5,563</b>	<b>6,010</b>	

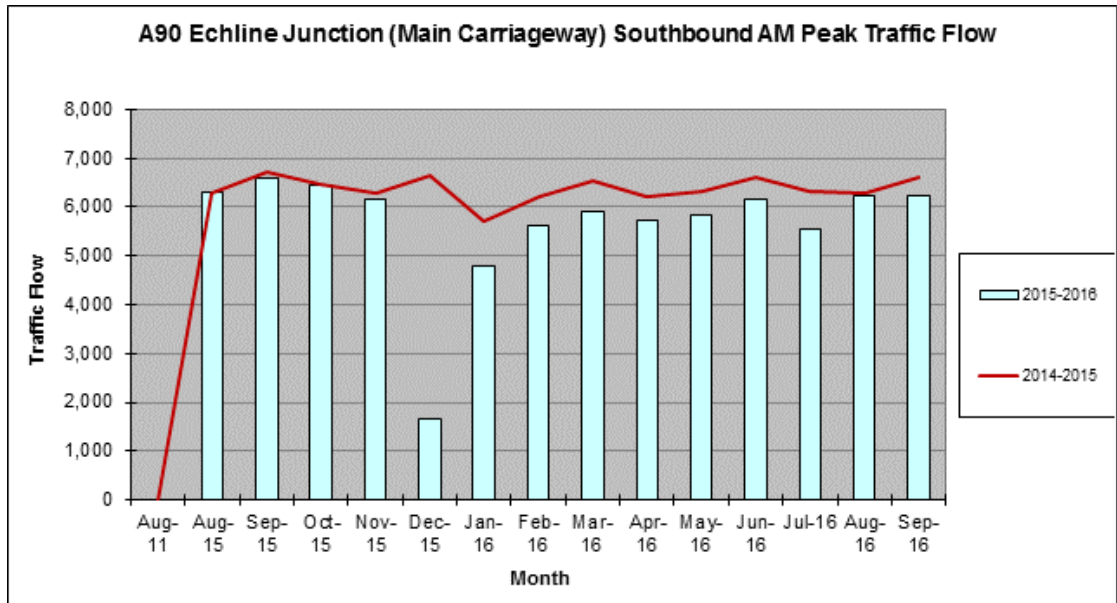


Figure 4-104 Monthly AM Peak Flows on the A90 Echline Junction (Main Carriageway) Southbound

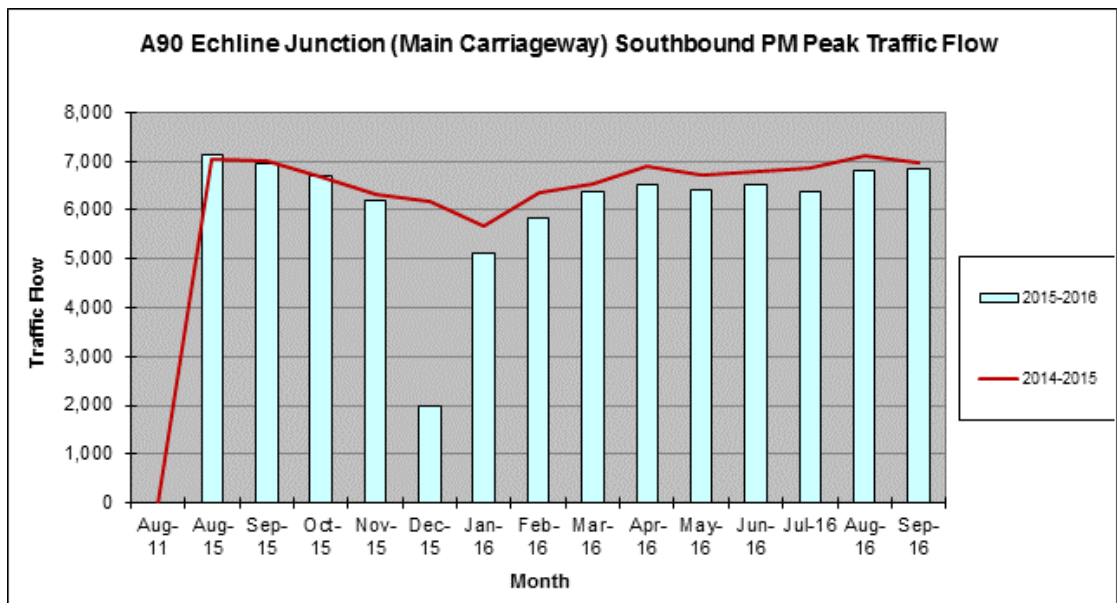


Figure 4-105 Monthly PM Peak Flows on the A90 Echline Junction (Main Carriageway) Southbound



### 4.16.3 Monthly Average HGV Flows

Table 4-62 Site: JTC08348 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	SB
JTC08348	A90 Echline Junction (Main Carriageway) Southbound	Aug-11	No Data
		Aug-15	1,586
		Sep-15	1,681
		Oct-15	1,669
		Nov-15	1,559
		Dec-15	226
		Jan-16	155
		Feb-16	545
		Mar-16	1,530
		Apr-16	1,496
		May-16	1,510
		Jun-16	1,593
		Jul-16	1,506
		Aug-16	1,650
		Sep-16	1,704
		<b>Annual Average</b>	<b>1,255</b>

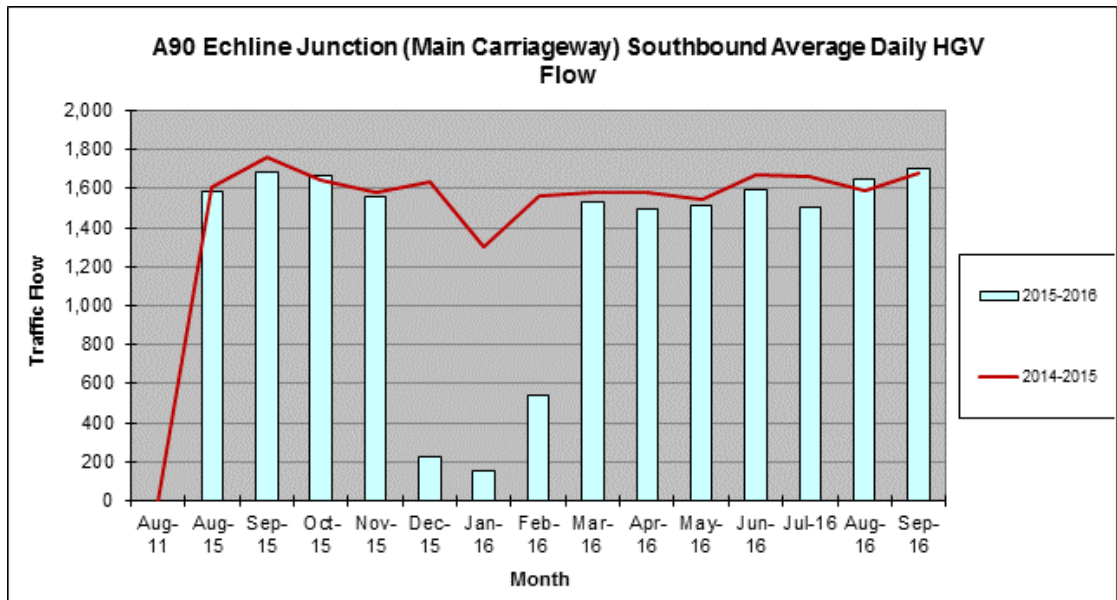
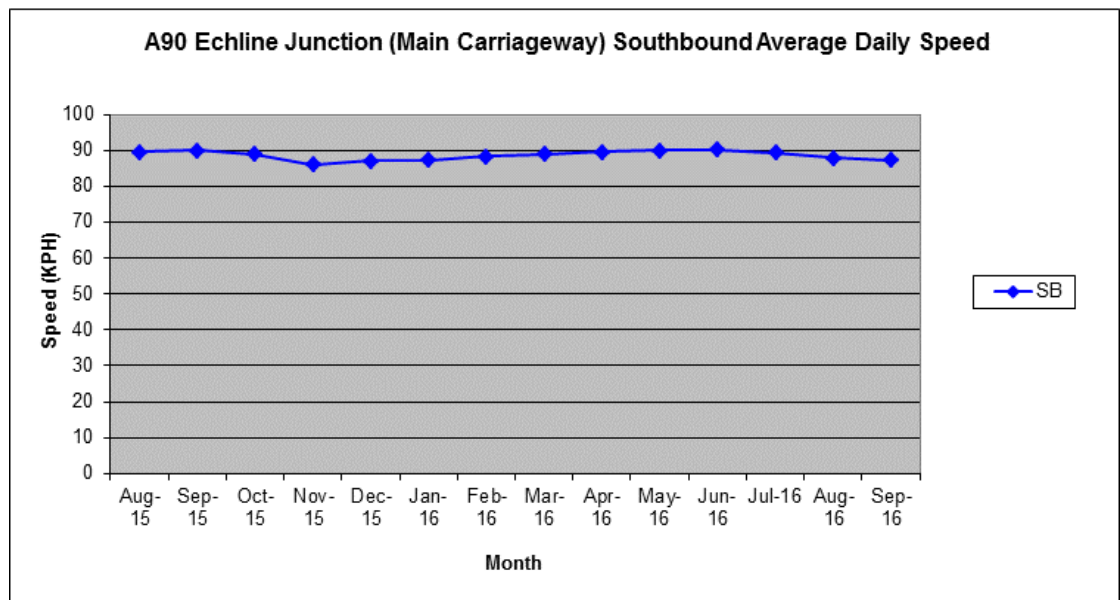


Figure 4-106 Monthly HGV Traffic Flows on the A90 Echline Junction (Main Carriageway) Southbound

#### 4.16.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-63 Site: JTC08348 Average Monthly Traffic Speeds (KPH) (All Vehicles) - August 2015 to September 2016**

Counter	Location	Date	SB
JTC08348	A90 Echline Junction (Main Carriageway) Southbound	Aug-15	90
		Sep-15	90
		Oct-15	89
		Nov-15	86
		Dec-15	87
		Jan-16	87
		Feb-16	88
		Mar-16	89
		Apr-16	90
		May-16	90
		Jun-16	90
		Jul-16	89
		Aug-16	88
Sep-16	87		



**Figure 4-107 Average Monthly Traffic Speeds (KPH) on the A90 Echline Junction (Main Carriageway) Southbound**

## 4.17 Traffic Counter JTC58347 - A90 Echline Junction On-Ramp Northbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV traffic flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.

### 4.17.1 Monthly Average Traffic Flows

**Table 4-64 Site: JTC58347 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
JTC58347	A90 Echline Junction On-Ramp Northbound	Aug-11	8,012
		Aug-15	7,633
		Sep-15	7,386
		Oct-15	7,009
		Nov-15	7,033
		Dec-15	1,949
		Jan-16	5,358
		Feb-16	6,493
		Mar-16	6,954
		Apr-16	7,055
		May-16	7,183
		Jun-16	7,309
		Jul-16	7,015
		Aug-16	7,416
		Sep-16	7,176
		<b>Annual Average</b>	<b>6,531</b>

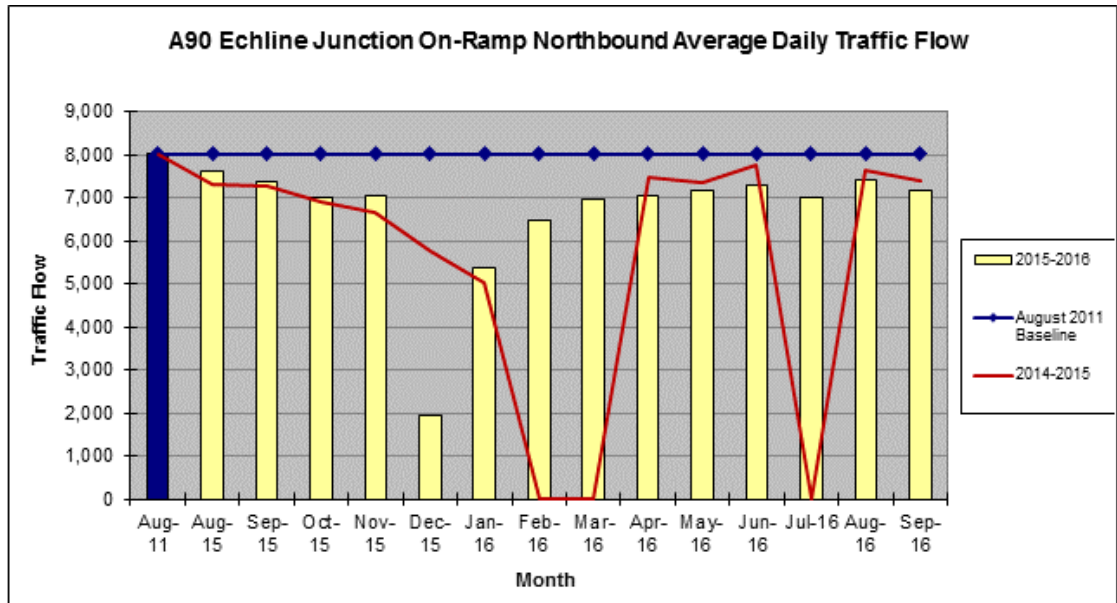


Figure 4-108 Monthly AADTs on the A90 Echline Junction On-Ramp Northbound

#### 4.17.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-65 Site: JTC58347 Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC58347	A90 Echline Junction On-Ramp Northbound	Aug-11	1,531	2,020
		Aug-15	1,276	2,064
		Sep-15	1,416	2,006
		Oct-15	1,326	1,910
		Nov-15	1,363	1,900
		Dec-15	289	450
		Jan-16	1,066	1,297
		Feb-16	1,321	1,589
		Mar-16	1,395	1,815
		Apr-16	1,336	1,858
		May-16	1,368	1,879
		Jun-16	1,391	1,938
		Jul-16	1,133	1,872
		Aug-16	1,303	1,954
Sep-16	1,365	1,905		
	<b>Annual Average</b>	<b>1,223</b>	<b>1,715</b>	

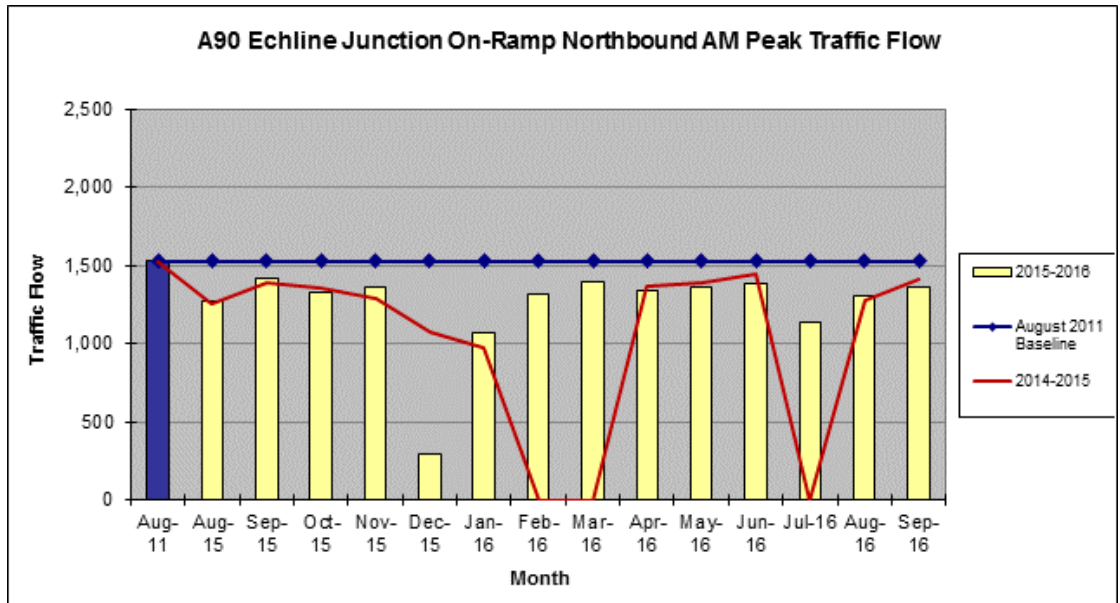


Figure 4-109 Monthly AM Peak Flows on the A90 Echline Junction On-Ramp Northbound

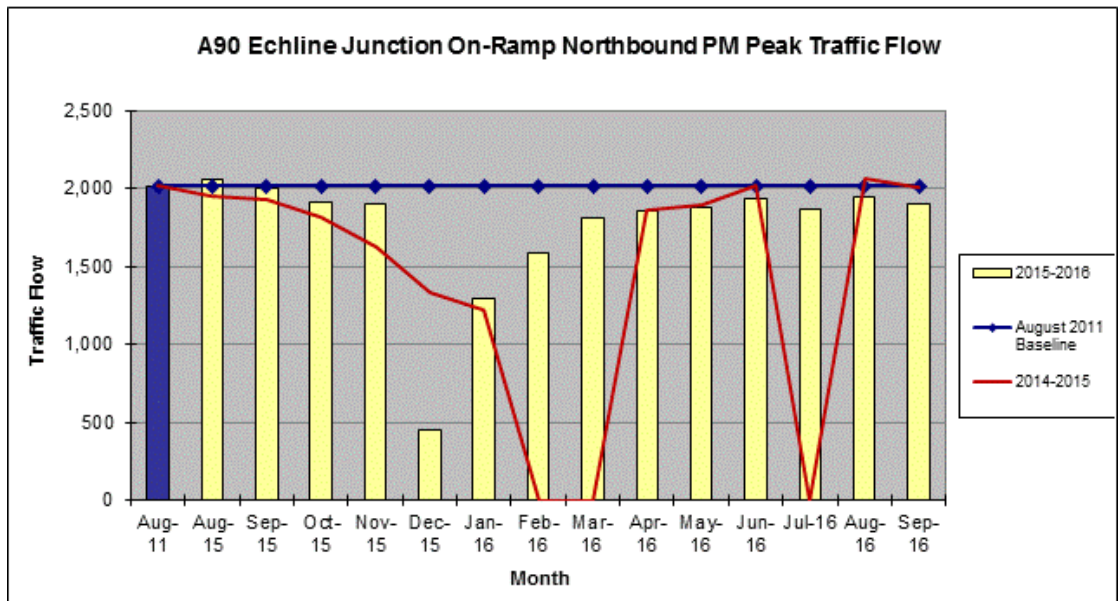


Figure 4-110 Monthly PM Peak Flows on the A90 Echline Junction On-Ramp Northbound

4.17.3 Monthly Average HGV Flows

Table 4-66 Site: JTC58347 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	NB
JTC58347	A90 Echline Junction On-Ramp Northbound	Aug-11	313
		Aug-15	220
		Sep-15	219
		Oct-15	226
		Nov-15	218
		Dec-15	56
		Jan-16	91
		Feb-16	173
		Mar-16	194
		Apr-16	199
		May-16	203
		Jun-16	216
		Jul-16	200
		Aug-16	214
		Sep-16	194
		<b>Annual Average</b>	<b>185</b>

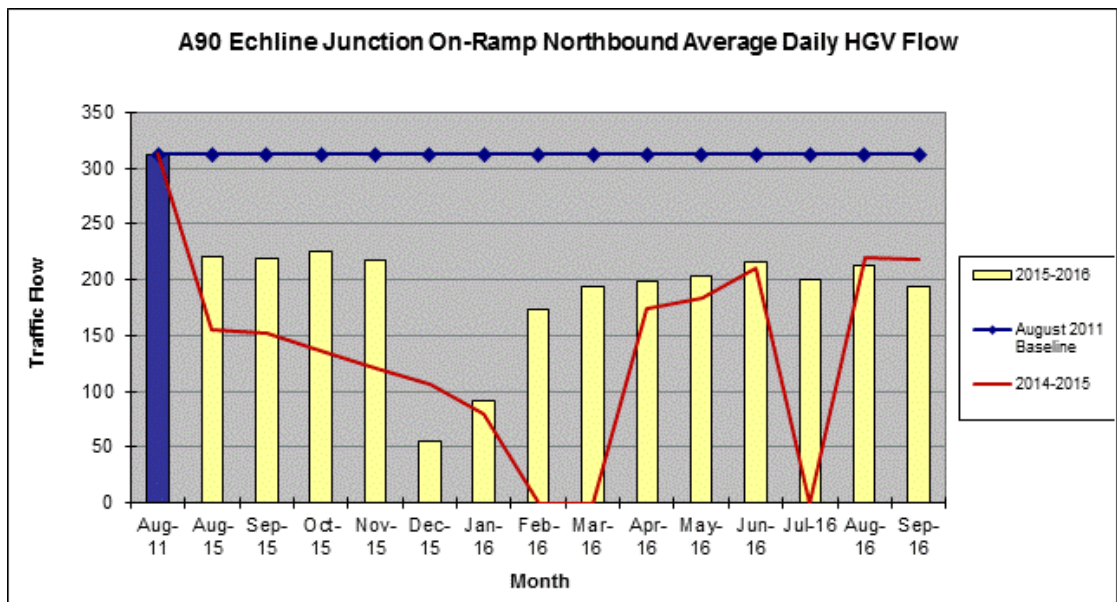
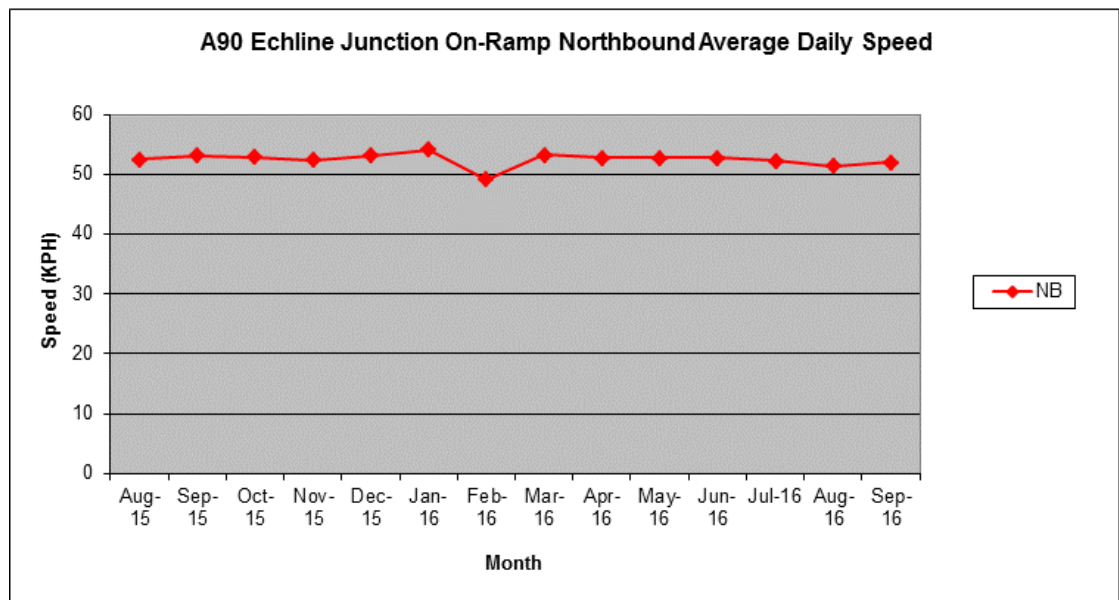


Figure 4-111 Monthly HGV Traffic Flows on the A90 Echline Junction On-Ramp Northbound

**4.17.4 Monthly Average All Vehicles Traffic Speeds**

**Table 4-67 Site: JTC58347 Average Monthly Traffic Speeds (KPH) (All Vehicles) - August 2015 to September 2016**

Counter	Location	Date	NB
JTC58347	A90 Echline Junction On-Ramp Northbound	Aug-15	52
		Sep-15	53
		Oct-15	53
		Nov-15	52
		Dec-15	53
		Jan-16	54
		Feb-16	49
		Mar-16	53
		Apr-16	53
		May-16	53
		Jun-16	53
		Jul-16	52
		Aug-16	51
Sep-16	52		



**Figure 4-112 Average Monthly Traffic Speeds (KPH) on the A90 Echline Junction On-Ramp Northbound**

## 4.18 Traffic Counter JTC58348 - A90 Echline Junction Off-Ramp Southbound

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV traffic flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- Throughout the rest of the reporting period, traffic flows are consistent with the previous monitoring period and lower than the 2011 baseline.
- Counter changed from Euro6 vehicle classification system to CA10 classification system in April 2016, due to the NTDS system update (see section 2.3).

### 4.18.1 Monthly Average Traffic Flows

**Table 4-68 Site: JTC58348 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
JTC58348	A90 Echline Junction Off-Ramp Southbound	Aug-11	8,063
		Aug-15	6,966
		Sep-15	6,853
		Oct-15	6,718
		Nov-15	6,654
		Dec-15	1,614
		Jan-16	5,259
		Feb-16	6,177
		Mar-16	6,591
		Apr-16	6,627
		May-16	6,836
		Jun-16	6,932
		Jul-16	6,628
		Aug-16	6,922
		Sep-16	6,613
		<b>Annual Average</b>	<b>6,154</b>



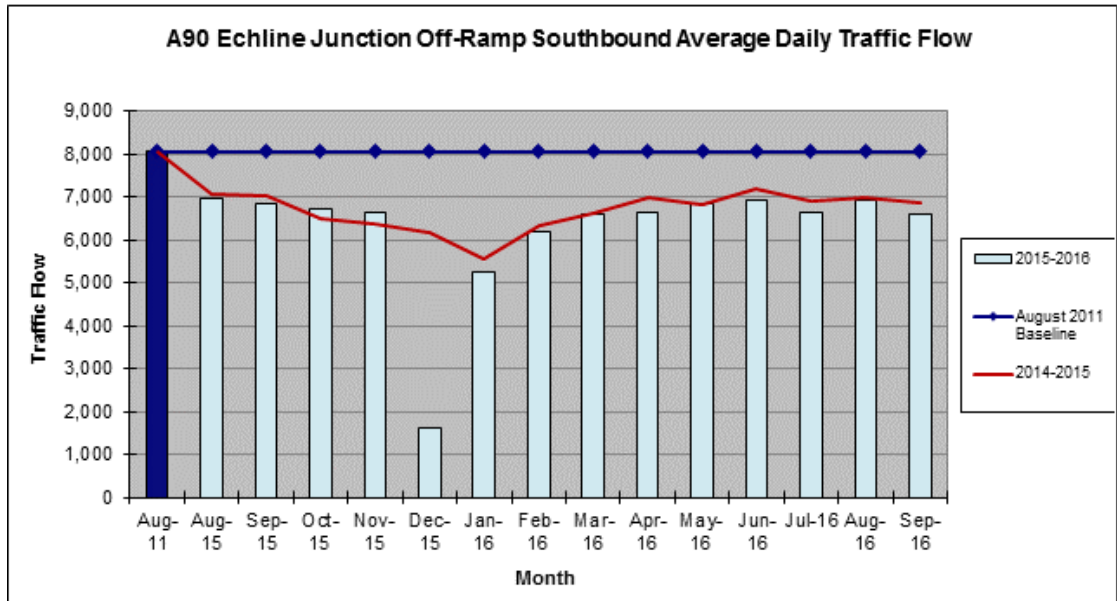


Figure 4-113 Monthly AADTs on the A90 Echline Junction Off-Ramp Southbound

#### 4.18.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-69 Site: JTC58348 Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC58348	A90 Echline Junction Off-Ramp Southbound	Aug-11	1,463	2,033
		Aug-15	1,184	1,710
		Sep-15	1,321	1,712
		Oct-15	1,270	1,587
		Nov-15	1,330	1,558
		Dec-15	225	332
		Jan-16	977	1,317
		Feb-16	1,241	1,502
		Mar-16	1,265	1,609
		Apr-16	1,150	1,638
		May-16	1,191	1,680
		Jun-16	1,364	1,641
		Jul-16	1,087	1,581
		Aug-16	1,239	1,654
Sep-16	1,287	1,575		
		<b>Annual Average</b>	<b>1,134</b>	<b>1,489</b>

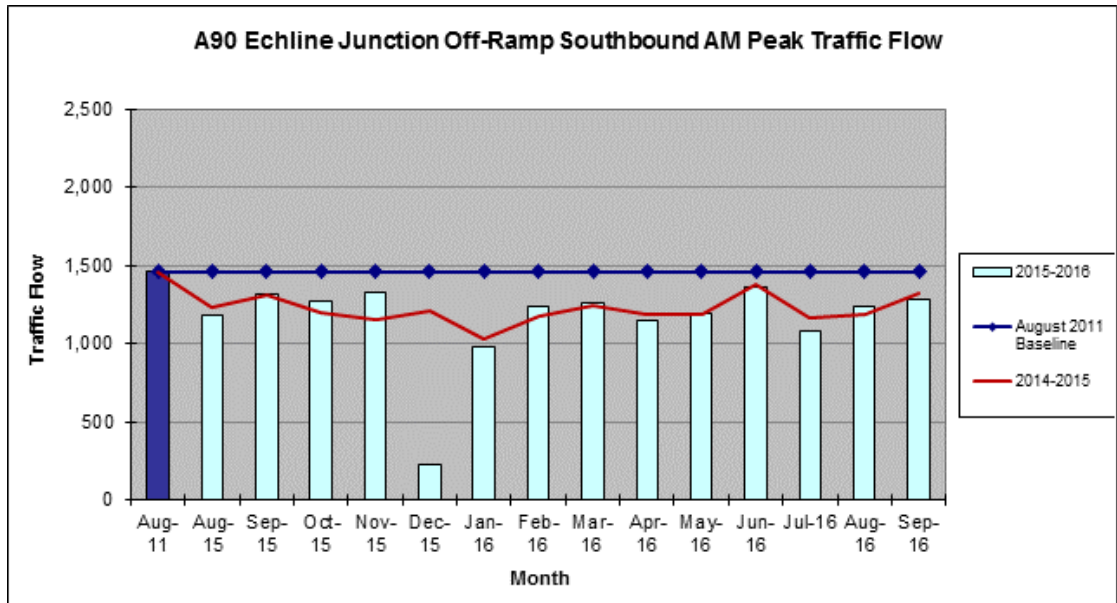


Figure 4-114 Monthly AM Peak Flows on the A90 Echline Junction Off-Ramp Southbound

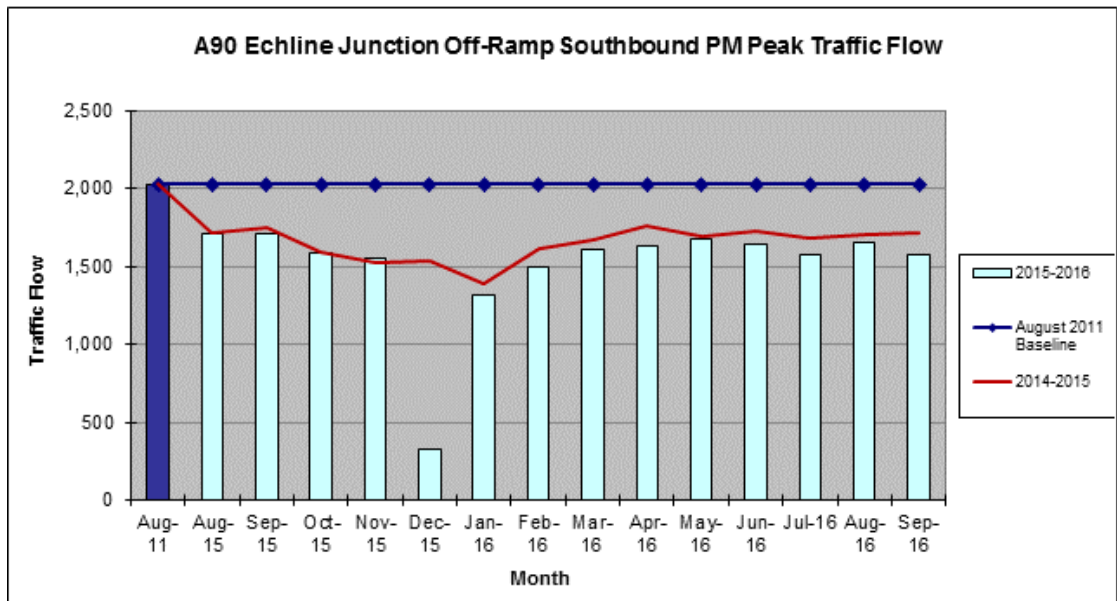


Figure 4-115 Monthly PM Peak Flows on the A90 Echline Junction Off-Ramp Southbound

### 4.18.3 Monthly Average HGV Flows

Table 4-70 Site: JTC58348 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	SB
JTC58348	A90 Echline Junction Off-Ramp Southbound	Aug-11	310
		Aug-15	170
		Sep-15	174
		Oct-15	177
		Nov-15	176
		Dec-15	34
		Jan-16	88
		Feb-16	117
		Mar-16	175
		Apr-16	173
		May-16	178
		Jun-16	193
		Jul-16	174
		Aug-16	172
		Sep-16	158
<b>Annual Average</b>			<b>152</b>

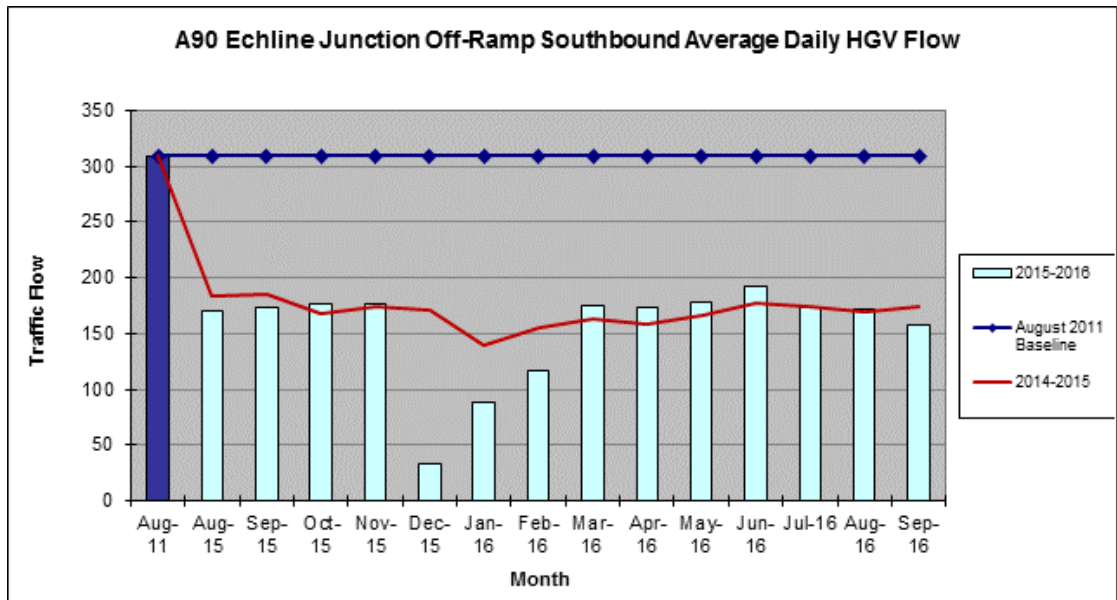
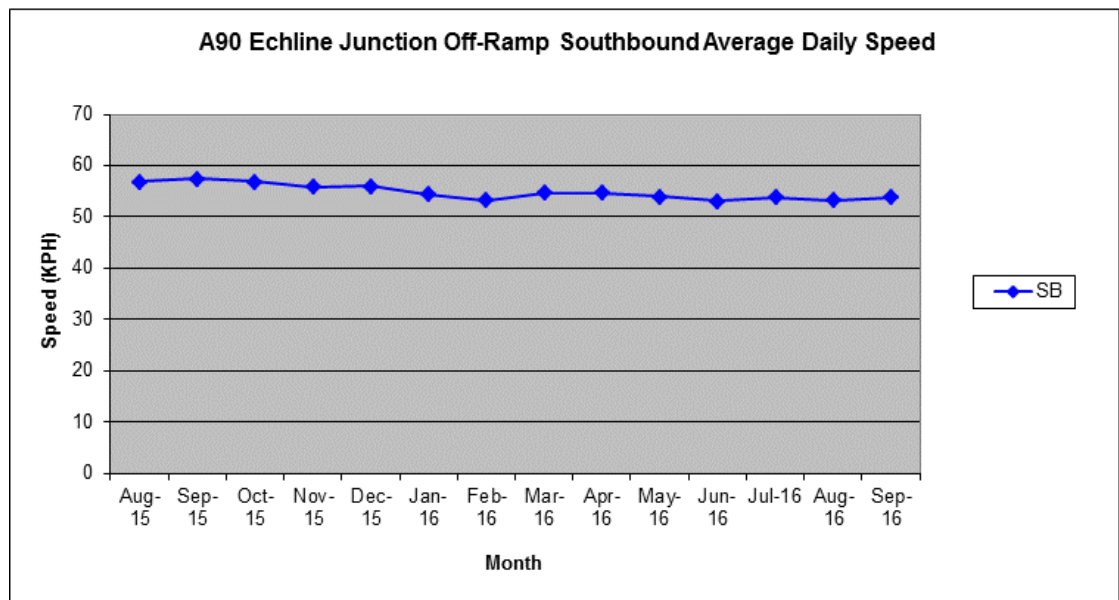


Figure 4-116 Monthly HGV Traffic Flows on the A90 Echline Junction Off-Ramp Southbound

#### 4.18.4 Monthly Average All Vehicles Traffic Speeds

**Table 4-71 Site: JTC58348 Average Monthly Traffic Speeds (KPH) (All Vehicles) - August 2015 to September 2016**

Counter	Location	Date	SB
JTC58348	A90 Echline Junction Off-Ramp Southbound	Aug-15	57
		Sep-15	57
		Oct-15	57
		Nov-15	56
		Dec-15	56
		Jan-16	54
		Feb-16	53
		Mar-16	55
		Apr-16	55
		May-16	54
		Jun-16	53
		Jul-16	54
		Aug-16	53
		Sep-16	54



**Figure 4-117 Average Monthly Traffic Speeds (KPH) on the A90 Echline Junction Off-Ramp Southbound**

#### 4.19 Traffic Counter NTC00802 - A90 (West of Barnton) Northbound

Summary of statistics between August 2015 and September 2016:

- No data since November 2015 due to a safe access issue.
- No data is available for the baseline period, therefore comparisons cannot be made.

##### 4.19.1 Monthly Average Traffic Flows

**Table 4-72 Site: NTC00802 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB
NTC00802	A90 (West of Barnton) Northbound	Aug-11	No Data
		Aug-15	No Data
		Sep-15	19,976
		Oct-15	19,130
		Nov-15	18,807
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
	<b>Annual Average</b>	<b>19,304</b>	

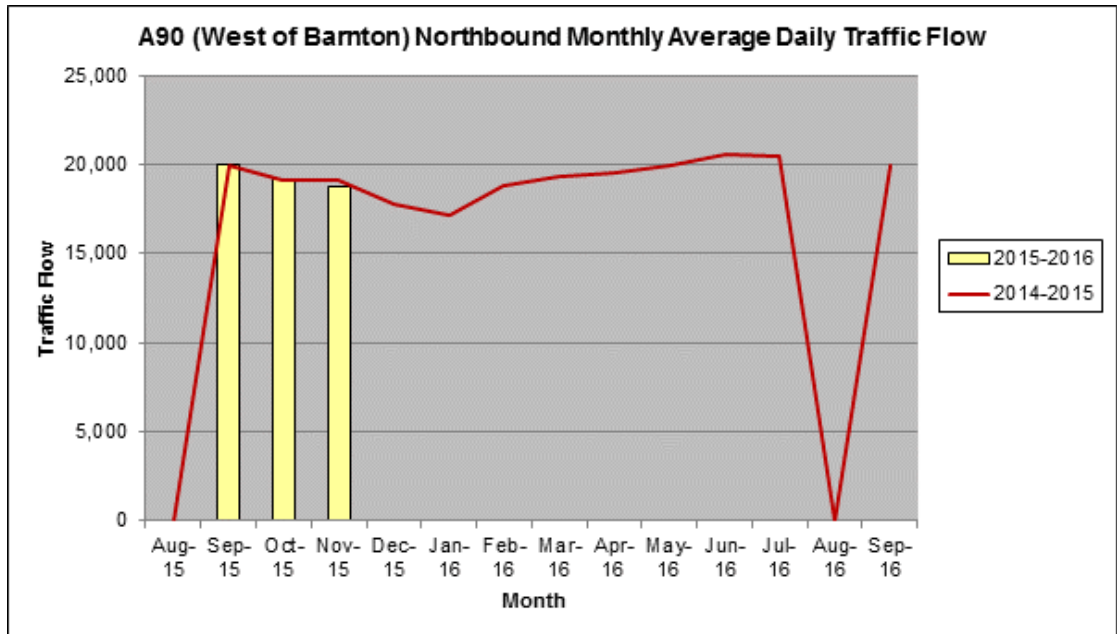


Figure 4-118 Monthly AADTs on the A90 (West of Barnton) Northbound

#### 4.19.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-73 Site: NTC00802 Monthly Northbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC00802	A90 (West of Barnton) Northbound	Aug-11	No Data	No Data
		Aug-15	No Data	No Data
		Sep-15	3,244	5,396
		Oct-15	3,152	5,066
		Nov-15	3,115	5,045
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>3,170</b>	<b>5,169</b>	

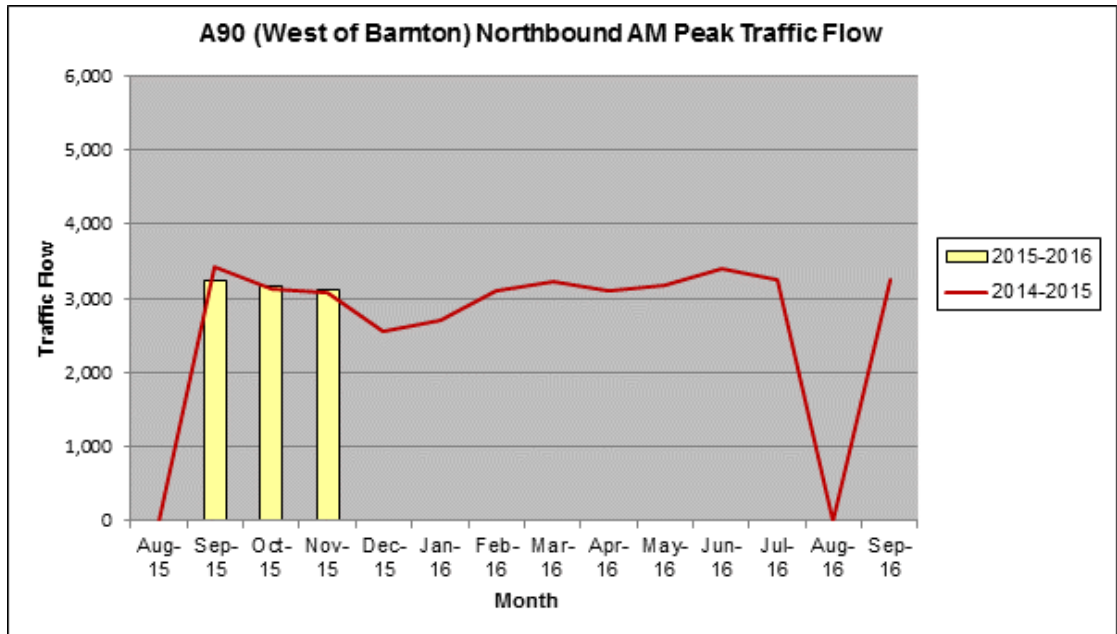


Figure 4-119 Monthly AM Peak Flows on the A90 (West of Barnton) Northbound

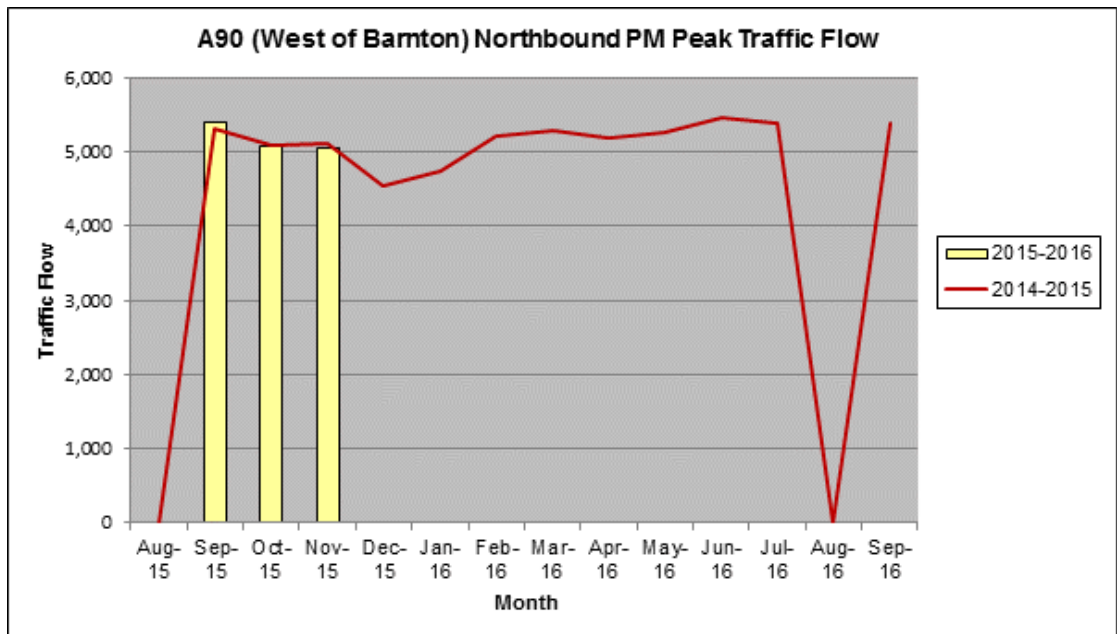


Figure 4-120 Monthly PM Peak Flows on the A90 (West of Barnton) Northbound

### 4.19.3 Monthly Average HGV Flows

Table 4-74 Site: NTC00802 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	NB
NTC00802	A90 (West of Barnton) Northbound	Aug-11	No Data
		Aug-15	No Data
		Sep-15	469
		Oct-15	450
		Nov-15	417
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	

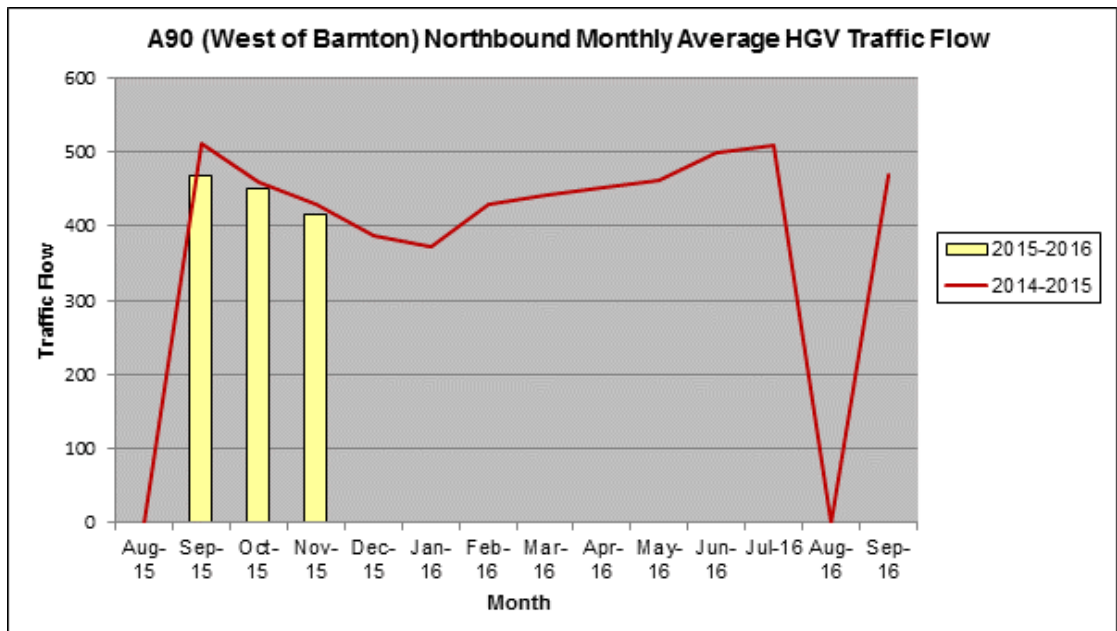


Figure 4-121 Monthly HGV Traffic Flows on the A90 (West of Barnton) Northbound



## 4.20 Traffic Counter NTC00803 - A90 (West of Barnton) Southbound

Summary of statistics between August 2015 and September 2016:

- No data since November 2015 due to a safe access issue.
- No data is available for the baseline period, therefore comparisons cannot be made.

### 4.20.1 Monthly Average Traffic Flows

**Table 4-75 Site: NTC00803 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	SB
NTC00803	A90 (West of Barnton) Southbound	Aug-11	No Data
		Aug-15	No Data
		Sep-15	18,555
		Oct-15	17,831
		Nov-15	17,584
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
	<b>Annual Average</b>	<b>17,990</b>	

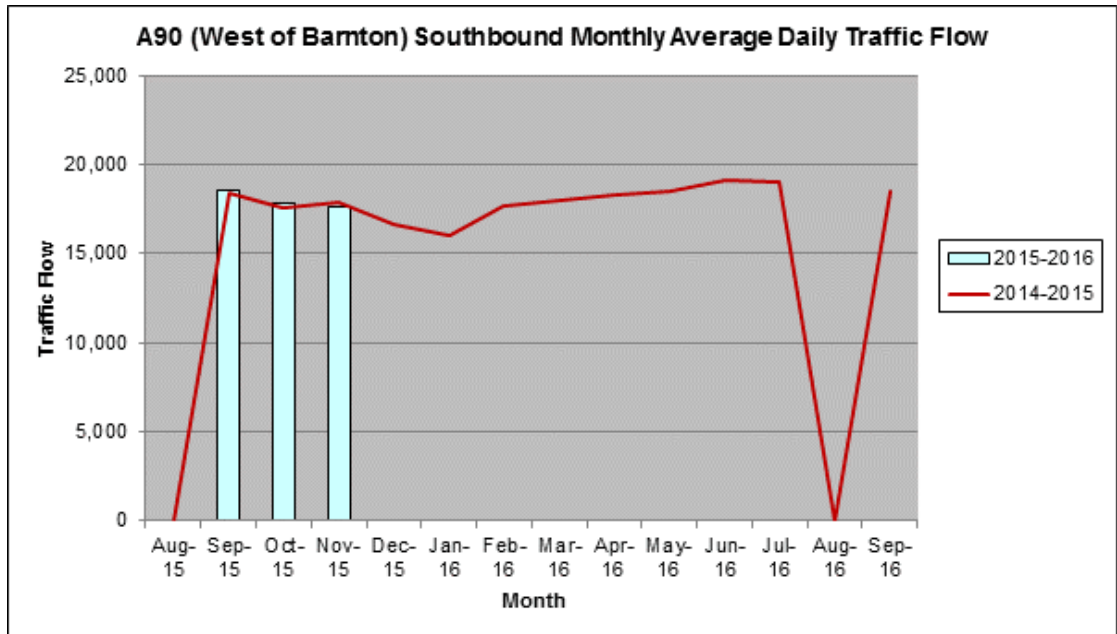


Figure 4-122 Monthly AADTs on the A90 (West of Barnton) Southbound

#### 4.20.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-76 Site: NTC00803 Monthly Southbound AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTC00803	A90 (West of Barnton) Southbound	Aug-11	No Data	No Data
		Aug-15	No Data	No Data
		Sep-15	4,141	4,267
		Oct-15	4,109	4,022
		Nov-15	4,226	3,926
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>4,159</b>	<b>4,072</b>	

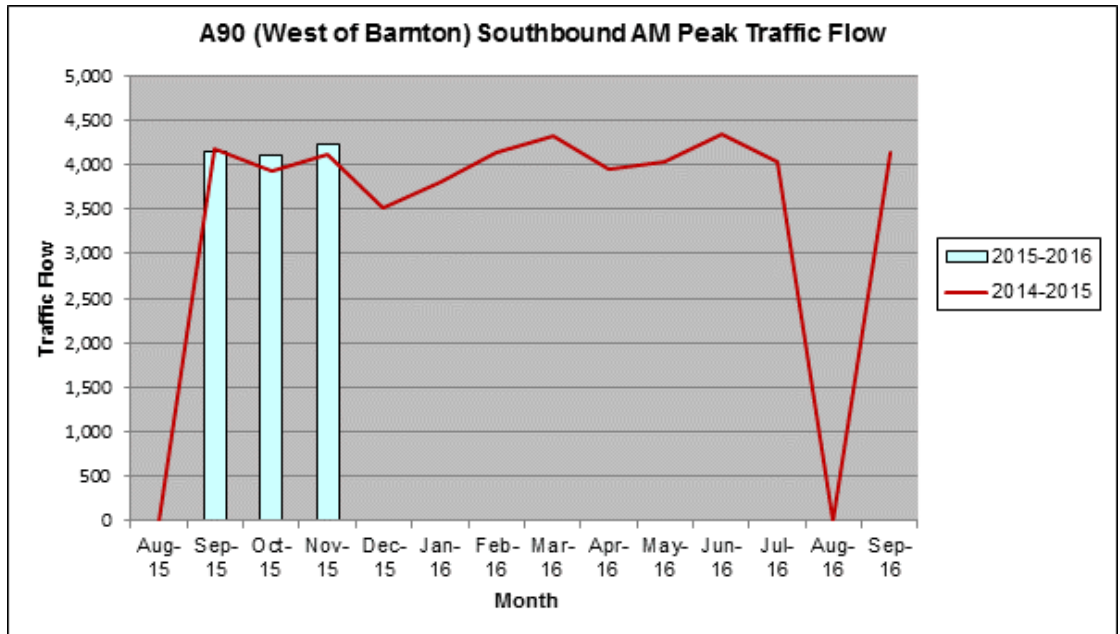


Figure 4-123 Monthly AM Peak Flows on the A90 (West of Barnton) Southbound

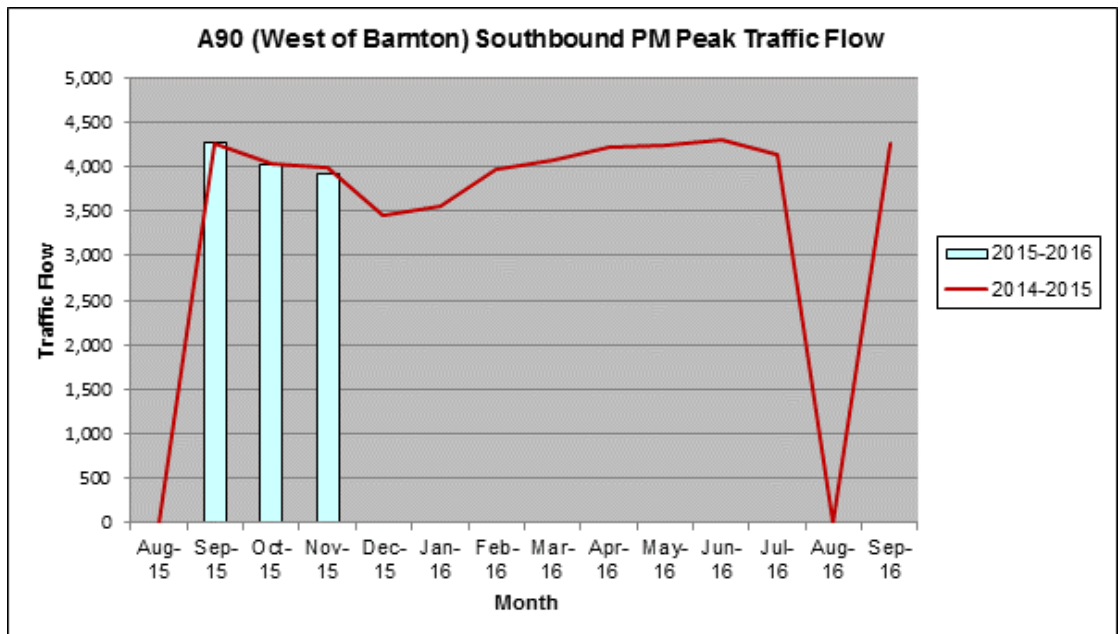


Figure 4-124 Monthly PM Peak Flows on the A90 (West of Barnton) Southbound

### 4.20.3 Monthly Average HGV Flows

Table 4-77 Site: NTC00803 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	SB	
NTC00803	A90 (West of Barnton) Southbound	Aug-11	No Data	
		Aug-15	No Data	
		Sep-15	395	
		Oct-15	373	
		Nov-15	368	
		Dec-15	No Data	
		Jan-16	No Data	
		Feb-16	No Data	
		Mar-16	No Data	
		Apr-16	No Data	
		May-16	No Data	
		Jun-16	No Data	
		Jul-16	No Data	
		Aug-16	No Data	
		Sep-16	No Data	
		<b>Annual Average</b>		<b>379</b>

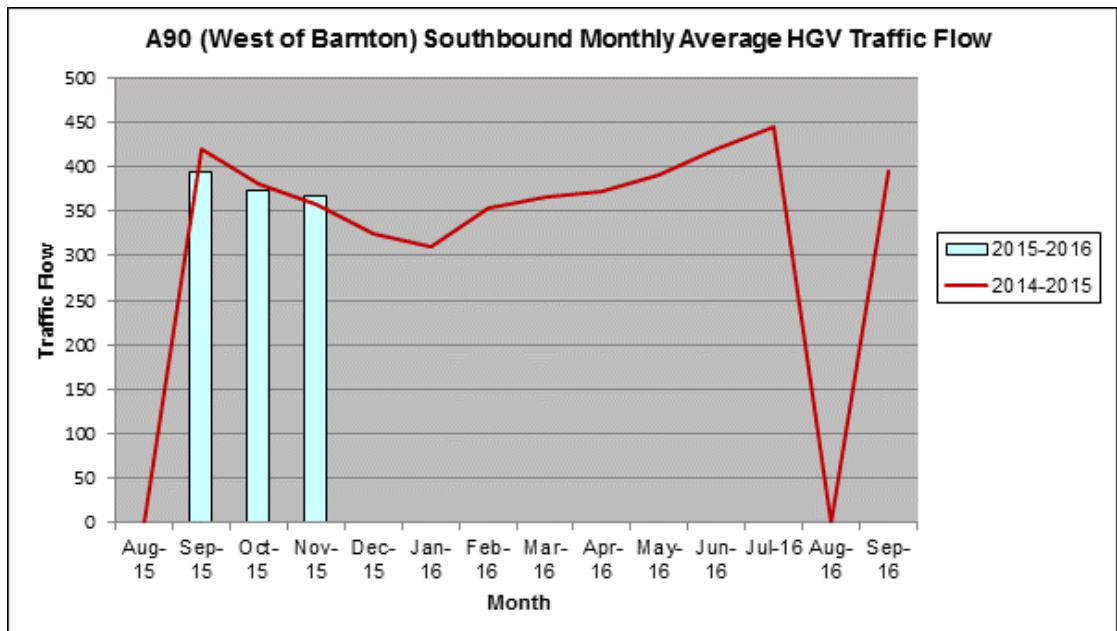


Figure 4-125 Monthly HGV Traffic Flows on the A90 (West of Barnton) Southbound

#### 4.21 Traffic Counter NTCNT010 - A8 West of A720 City Bypass (Gogar)

- Westbound data from April 2016 to July 2016 was previously unavailable, so was reported in the monthly reports as “No Data”. Data for this period was later sourced and has therefore been included in this report.

##### 4.21.1 Monthly Average Traffic Flows

**Table 4-78 Site: NTCNT010 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
NTCNT010	A8 West of A720 City Bypass (Gogar)	Aug-11	21,732	21,080	42,812
		Aug-15	23,500	23,005	46,505
		Sep-15	24,112	23,182	47,293
		Oct-15	22,548	21,809	44,357
		Nov-15	22,380	21,861	44,241
		Dec-15	21,431	21,518	42,948
		Jan-16	20,117	19,755	39,872
		Feb-16	22,057	21,930	43,987
		Mar-16	23,116	22,589	45,705
		Apr-16	23,575	22,570	46,145
		May-16	23,924	23,592	47,516
		Jun-16	25,004	24,674	49,678
		Jul-16	24,563	24,155	48,717
		Aug-16	No Data	No Data	No Data
		Sep-16	No Data	No Data	No Data
	<b>Annual Average</b>	<b>23,027</b>	<b>22,553</b>	<b>45,580</b>	

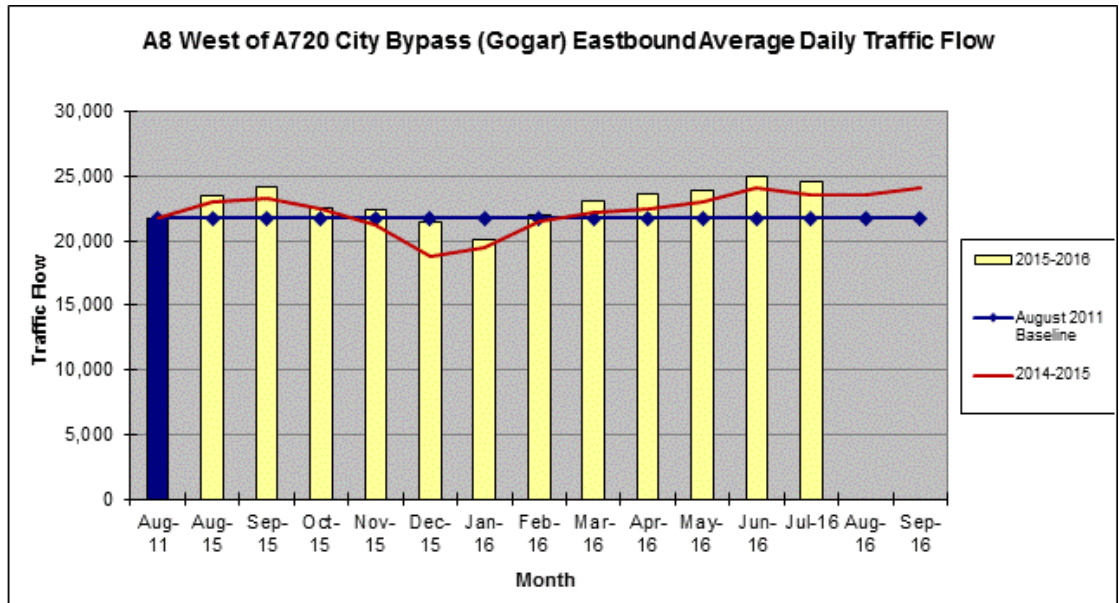


Figure 4-126 Monthly AADTs on the A8 West of A720 City Bypass (Gogar)

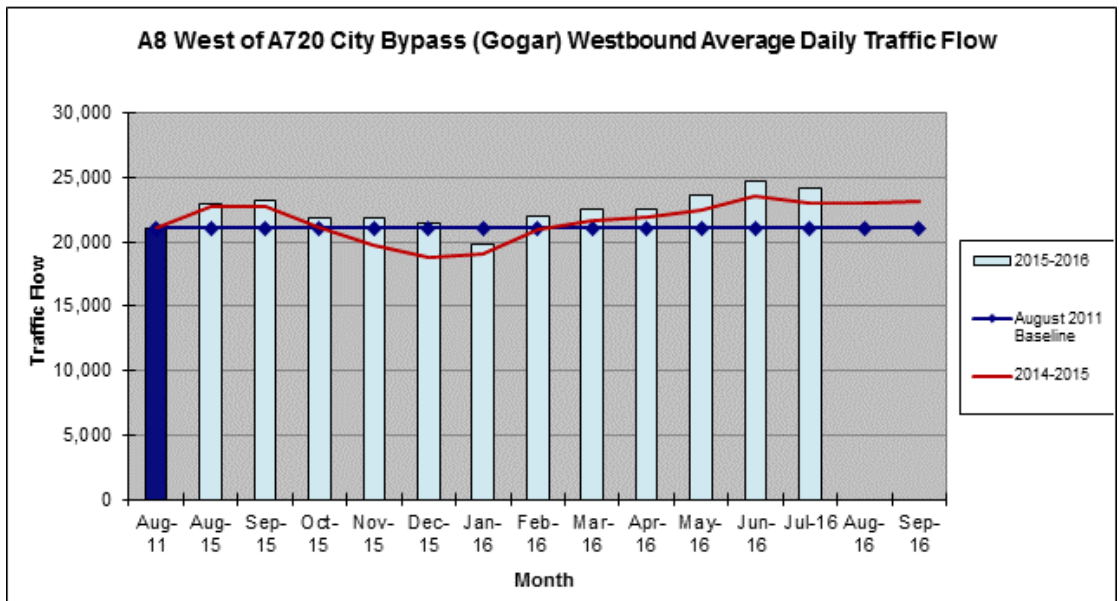


Figure 4-127 Monthly AADTs on the A8 West of A720 City Bypass (Gogar)

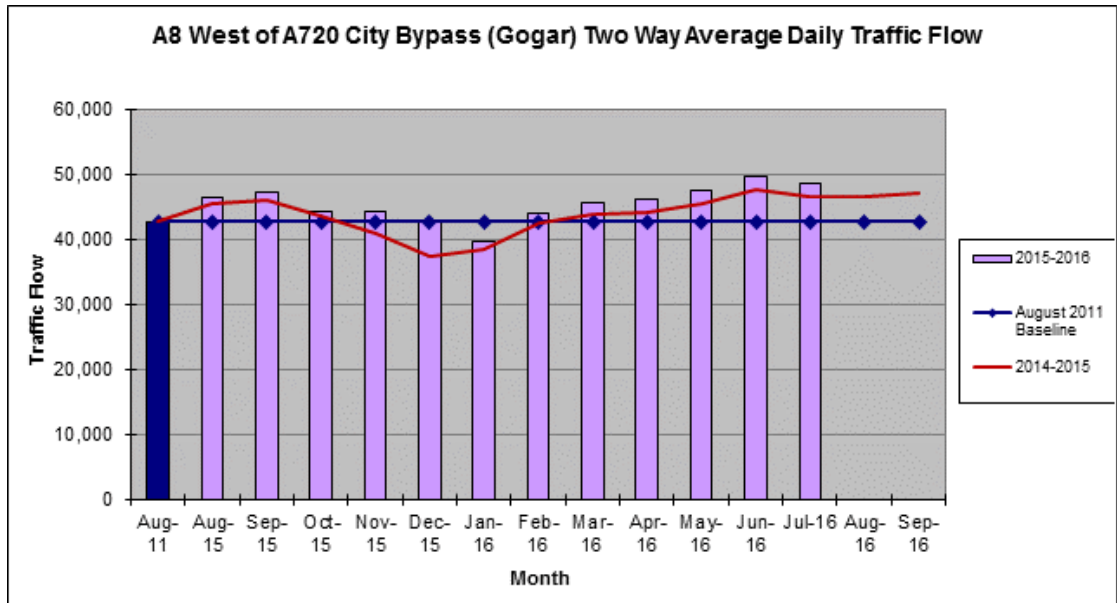


Figure 4-128 Monthly Two Way Daily Traffic Flows on the A8 West of A720 City Bypass (Gogar)

4.21.2 Monthly Average AM and PM Peak Traffic Flows

Table 4-79 Site: NTCNT010 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
NTCNT010	A8 West of A720 City Bypass (Gogar)	Aug-11	8,217	9,045
		Aug-15	8,994	9,316
		Sep-15	9,737	9,411
		Oct-15	8,864	8,910
		Nov-15	9,122	9,052
		Dec-15	8,092	8,320
		Jan-16	8,149	8,439
		Feb-16	9,095	9,152
		Mar-16	9,645	9,525
		Apr-16	9,570	9,520
		May-16	9,586	9,602
		Jun-16	10,106	10,029
		Jul-16	9,414	9,664
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>9,198</b>	<b>9,245</b>	

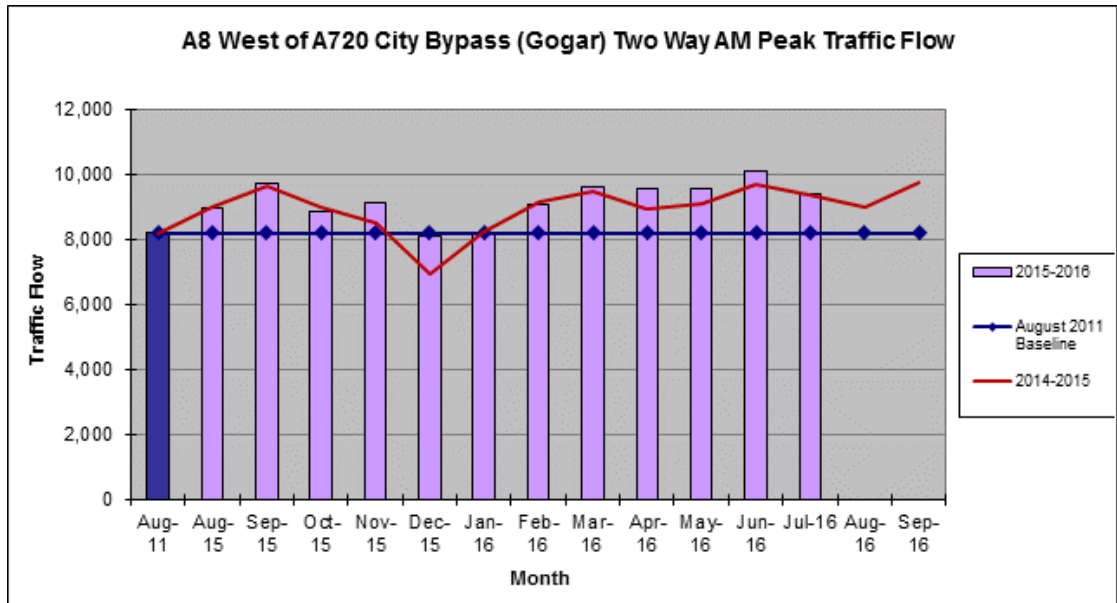


Figure 4-129 Monthly Two Way AM Peak Flows on the A8 West of A720 City Bypass (Gogar)

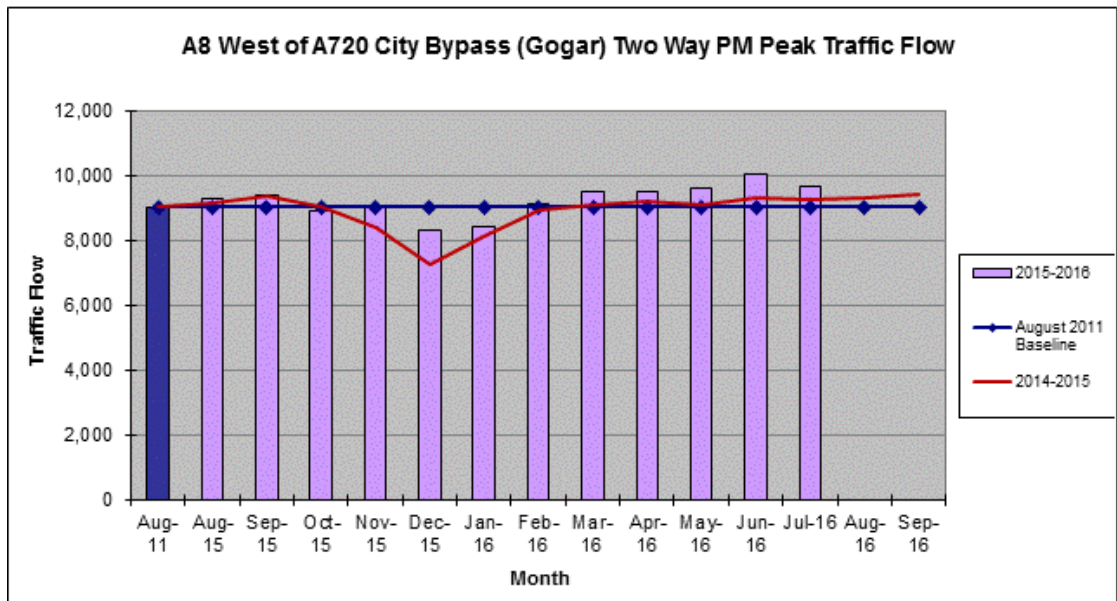


Figure 4-130 Monthly Two Way PM Peak Flows on the A8 West of A720 City Bypass (Gogar)



### 4.21.3 Monthly Average HGV Flows

Table 4-80 Site: NTCNT010 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
NTCNT010	A8 West of A720 City Bypass (Gogar)	Aug-11	7,159
		Aug-15	7,678
		Sep-15	7,557
		Oct-15	7,016
		Nov-15	6,806
		Dec-15	7,173
		Jan-16	6,096
		Feb-16	6,758
		Mar-16	7,064
		Apr-16	6,362
		May-16	7,663
		Jun-16	7,884
		Jul-16	7,955
		Aug-16	No Data
		Sep-16	No Data
<b>Annual Average</b>			<b>7,168</b>

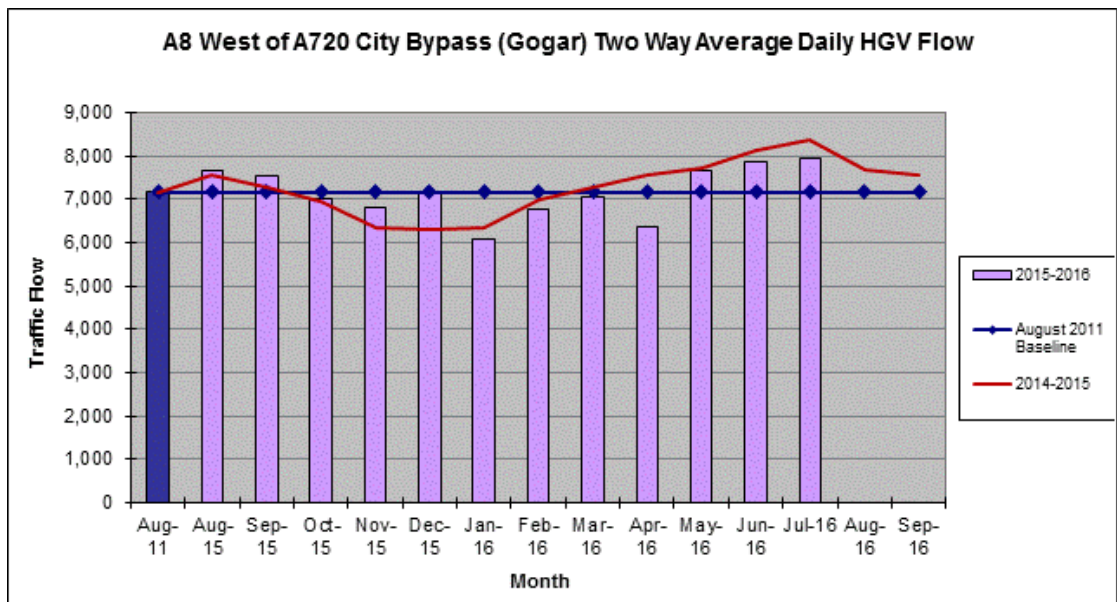


Figure 4-131 Monthly Two Way HGV Traffic Flows on the A8 West of A720 City Bypass (Gogar)

## 5 B-Road Automatic Traffic Counter Data

### 5.1 Traffic Counter JTC00396 - B9080 (East of Winchburgh)

Summary of statistics between August 2015 and September 2016:

- Traffic flows are higher than the previous monitoring period and the 2011 baseline.
- Counter changed from Euro6 vehicle classification system to CA10 classification system in April 2016, due to the NTDS system update (see section 2.3).

#### 5.1.1 Monthly Average Traffic Flows

**Table 5-1 Site: JTC00396 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00396	B9080 (East of Winchburgh)	Aug-11	1,712	1,729	3,441
		Aug-15	1,863	1,765	3,628
		Sep-15	1,910	1,835	3,745
		Oct-15	1,956	1,831	3,786
		Nov-15	1,915	1,726	3,641
		Dec-15	1,942	1,822	3,764
		Jan-16	1,805	1,692	3,497
		Feb-16	1,976	1,873	3,850
		Mar-16	1,893	1,808	3,701
		Apr-16	1,995	1,789	3,784
		May-16	2,076	1,875	3,951
		Jun-16	2,299	2,155	4,454
		Jul-16	1,980	1,779	3,759
		Aug-16	2,191	1,946	4,137
		Sep-16	2,045	1,828	3,874
		<b>Annual Average</b>	<b>1,967</b>	<b>1,829</b>	<b>3,797</b>

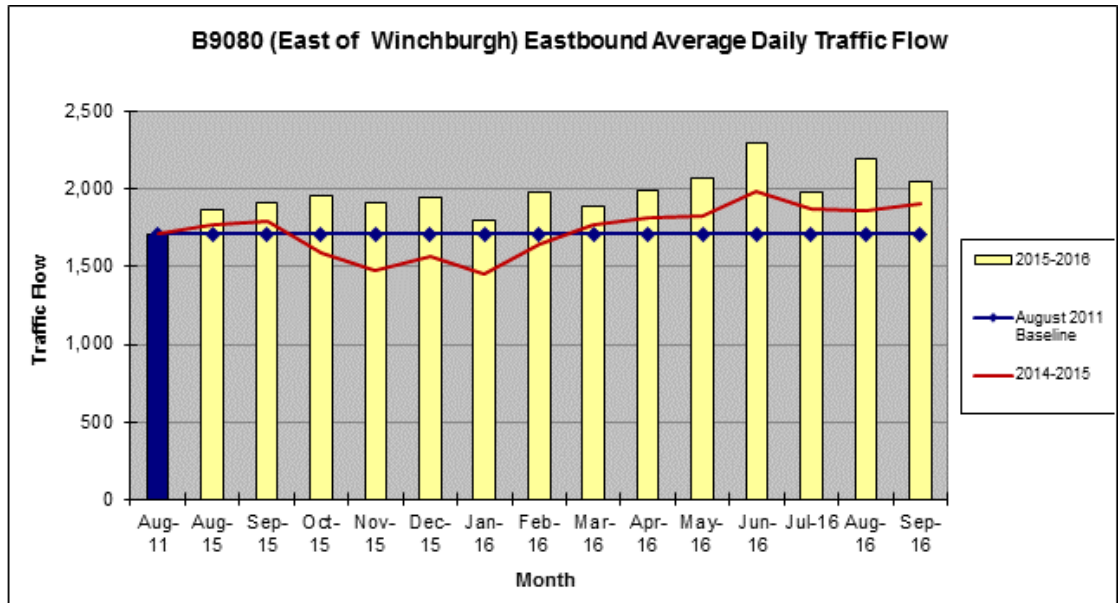


Figure 5-1 Monthly AADTs on the B9080 (East of Winchburgh)

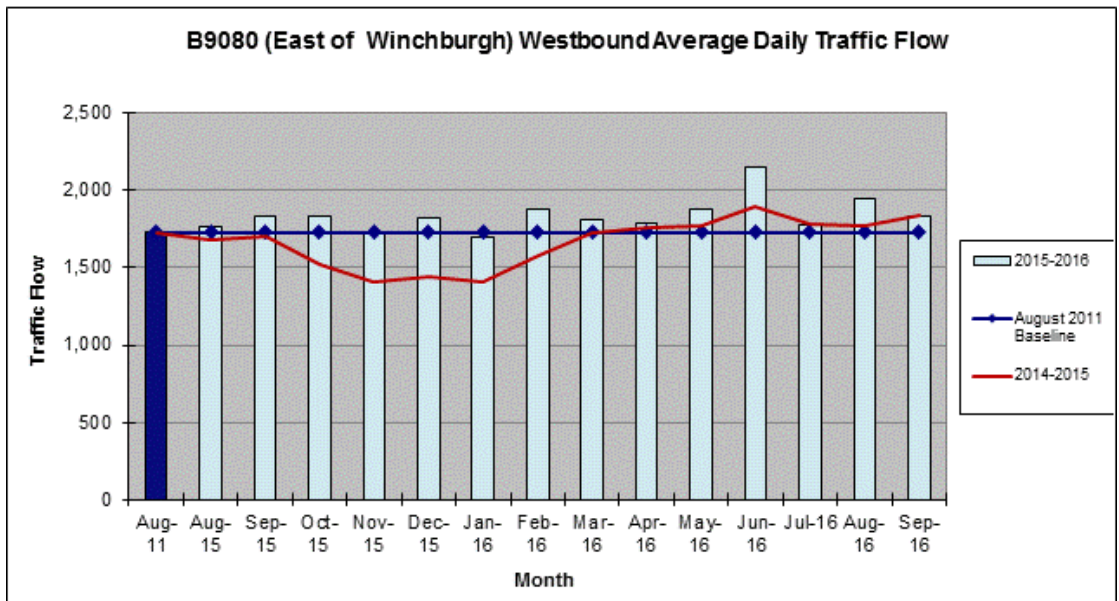


Figure 5-2 Monthly AADTs on the B9080 (East of Winchburgh)

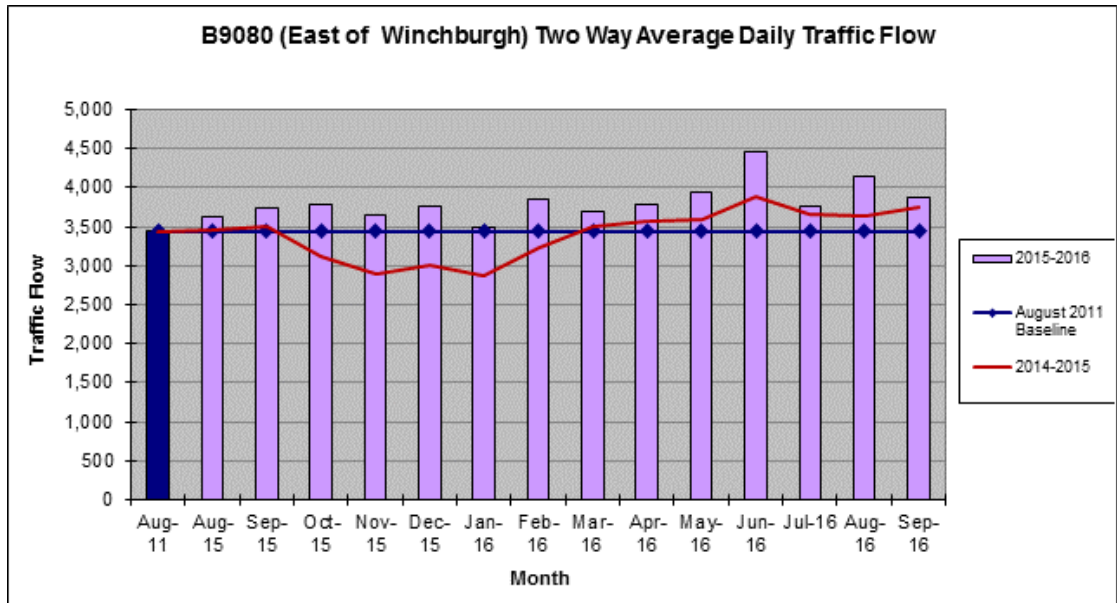


Figure 5-3 Monthly Two Way Daily Traffic Flows on the B9080 (East of Winchburgh)

### 5.1.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-2 Site: JTC00396 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00396	B9080 (East of Winchburgh)	Aug-11	658	868
		Aug-15	621	867
		Sep-15	709	915
		Oct-15	730	918
		Nov-15	733	866
		Dec-15	735	828
		Jan-16	699	801
		Feb-16	817	875
		Mar-16	659	866
		Apr-16	596	924
		May-16	678	953
		Jun-16	842	1,072
		Jul-16	627	892
		Aug-16	739	1,024
Sep-16	726	963		
	<b>Annual Average</b>	<b>704</b>	<b>898</b>	

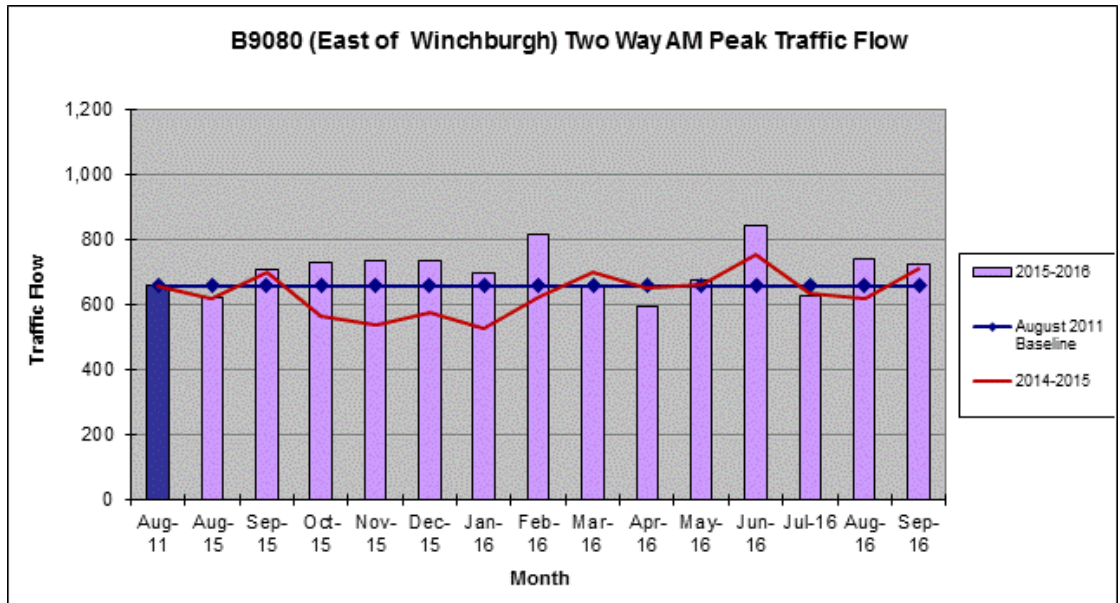


Figure 5-4 Monthly Two Way AM Peak Flows on the B9080 (East of Winchburgh)

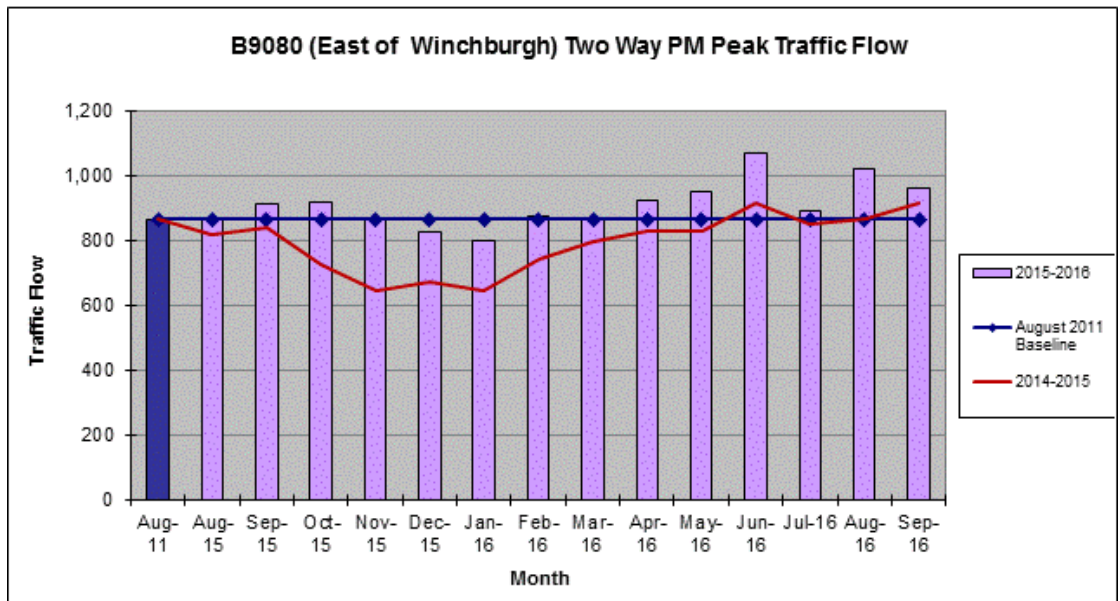


Figure 5-5 Monthly Two Way PM Peak Flows on the B9080 (East of Winchburgh)

### 5.1.3 Monthly Average HGV Flows

Table 5-3 Site: JTC00396 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00396	B9080 (East of Winchburgh)	Aug-11	127
		Aug-15	115
		Sep-15	146
		Oct-15	136
		Nov-15	131
		Dec-15	133
		Jan-16	129
		Feb-16	134
		Mar-16	130
		Apr-16	129
		May-16	127
		Jun-16	128
		Jul-16	125
		Aug-16	130
		Sep-16	140
		<b>Annual Average</b>	<b>130</b>

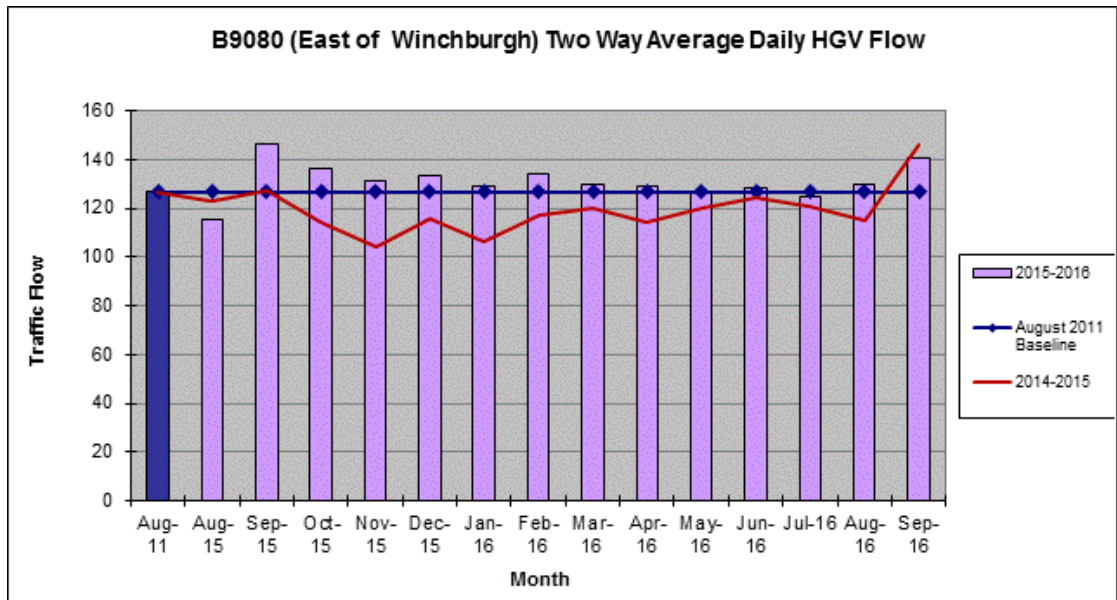
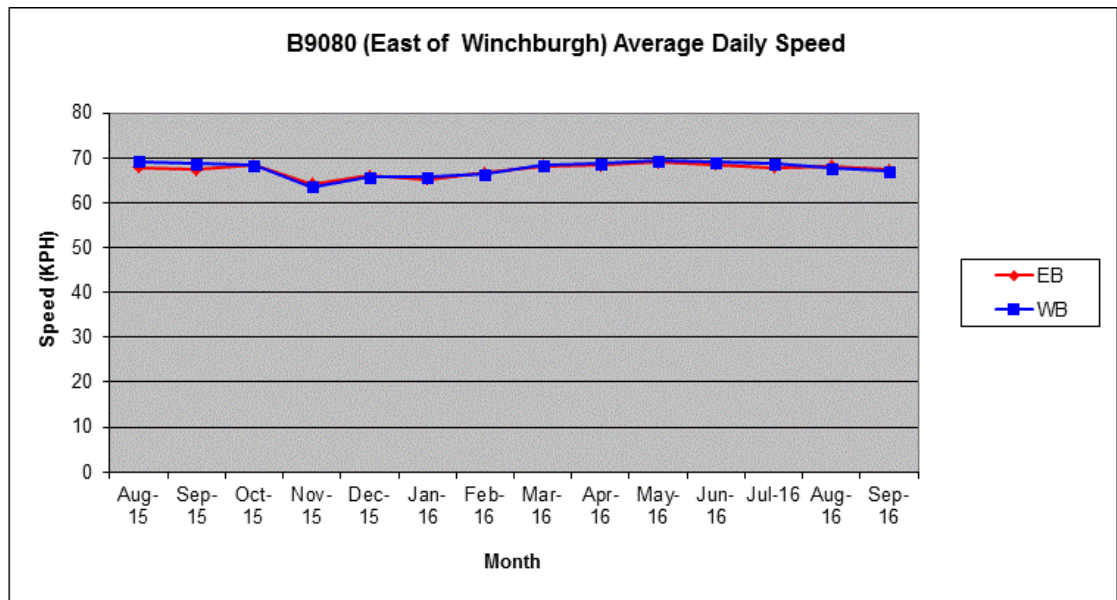


Figure 5-6 Monthly Two Way HGV Traffic Flows on the B9080 (East of Winchburgh)

### 5.1.4 Monthly Average All Vehicles Traffic Speeds

**Table 5-4 Site: JTC00396 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00396	B9080 (East of Winchburgh)	Aug-15	68	69
		Sep-15	67	69
		Oct-15	68	68
		Nov-15	64	64
		Dec-15	66	66
		Jan-16	65	66
		Feb-16	67	66
		Mar-16	68	68
		Apr-16	68	69
		May-16	69	69
		Jun-16	69	69
		Jul-16	68	69
		Aug-16	68	68
Sep-16	67	67		



**Figure 5-7 Average Monthly Traffic Speeds (KPH) on the B9080 (East of Winchburgh)**

## 5.2 Traffic Counter JTC00575 - B924 Bo'ness Road (South Queensferry)

Summary of statistics between August 2015 and September 2016:

- Traffic flows are slightly higher than the previous monitoring period.
- Traffic flows are indicative of typical seasonal variation; with higher flows over the summer month.

### 5.2.1 Monthly Average Traffic Flows

**Table 5-5 Site: JTC00575 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00575	B924 Bo'ness Road (South Queensferry)	Aug-11	2,614	2,784	5,399
		Aug-15	2,264	2,513	4,777
		Sep-15	2,177	2,408	4,586
		Oct-15	2,044	2,302	4,346
		Nov-15	2,083	2,324	4,407
		Dec-15	2,052	2,158	4,210
		Jan-16	1,771	2,018	3,789
		Feb-16	1,962	2,214	4,176
		Mar-16	2,149	2,399	4,548
		Apr-16	2,177	2,436	4,613
		May-16	2,329	2,611	4,940
		Jun-16	2,243	2,596	4,839
		Jul-16	2,077	2,452	4,529
		Aug-16	2,369	2,771	5,140
		Sep-16	2,345	2,582	4,927
		<b>Annual Average</b>	<b>2,111</b>	<b>2,369</b>	<b>4,480</b>



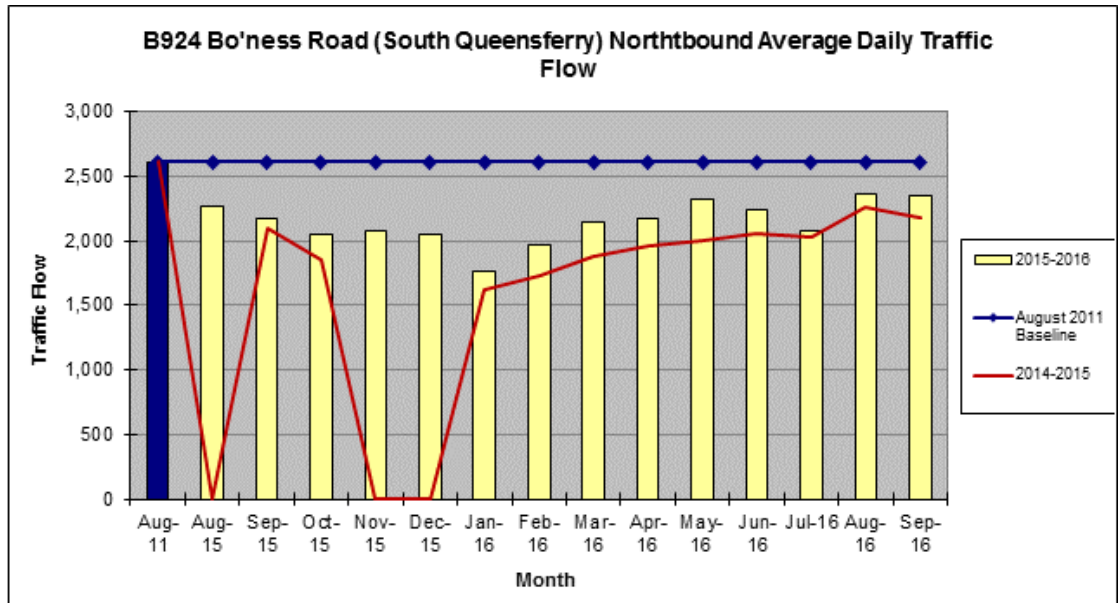


Figure 5-8 Monthly AADTs on the B924 Bo'ness Road (South Queensferry)

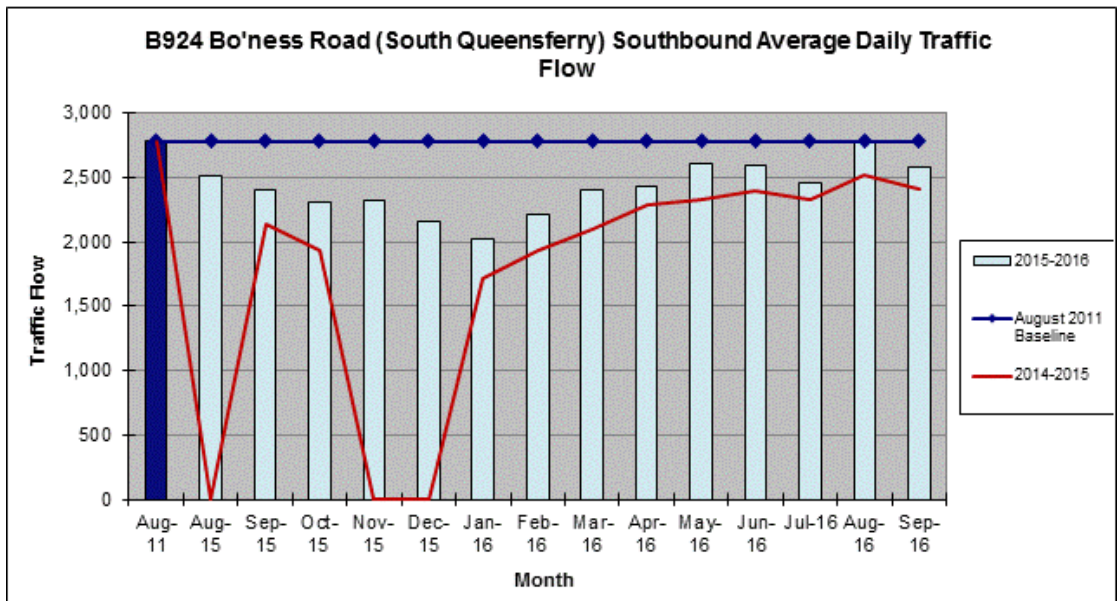


Figure 5-9 Monthly AADTs on the B924 Bo'ness Road (South Queensferry)

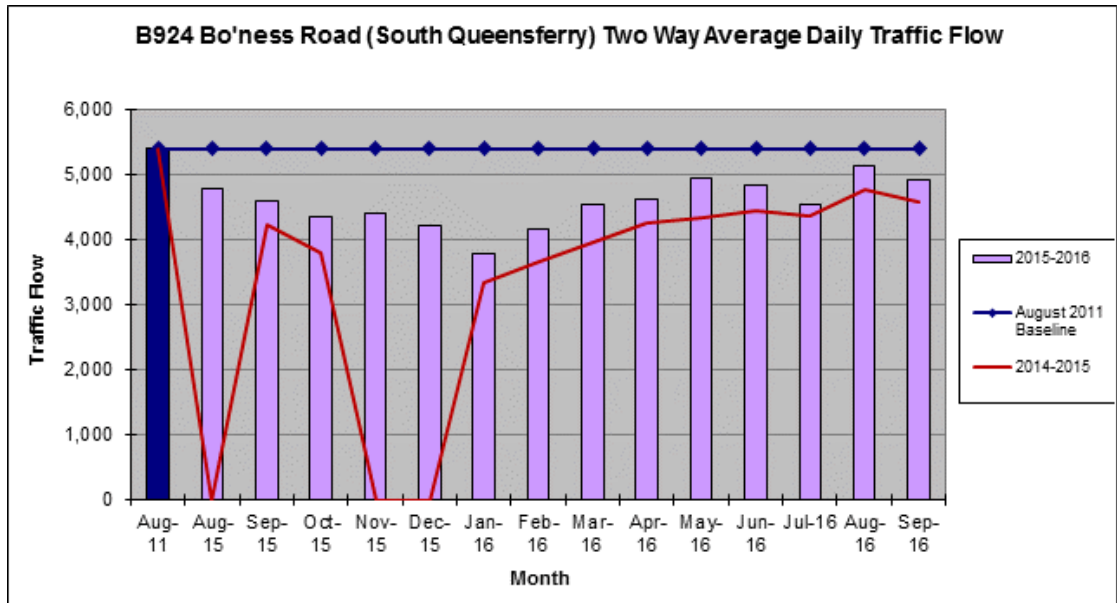


Figure 5-10 Monthly Two Way Daily Traffic Flows on the B924 Bo'ness Road (South Queensferry)

### 5.2.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-6 Site: JTC00575 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00575	B924 Bo'ness Road (South Queensferry)	Aug-11	831	1,190
		Aug-15	671	1,112
		Sep-15	705	1,074
		Oct-15	684	973
		Nov-15	637	1,029
		Dec-15	691	888
		Jan-16	498	796
		Feb-16	711	916
		Mar-16	720	1,017
		Apr-16	749	950
		May-16	778	1,048
		Jun-16	788	1,005
		Jul-16	703	933
		Aug-16	808	1,122
Sep-16	793	1,061		
	<b>Annual Average</b>	<b>695</b>	<b>978</b>	

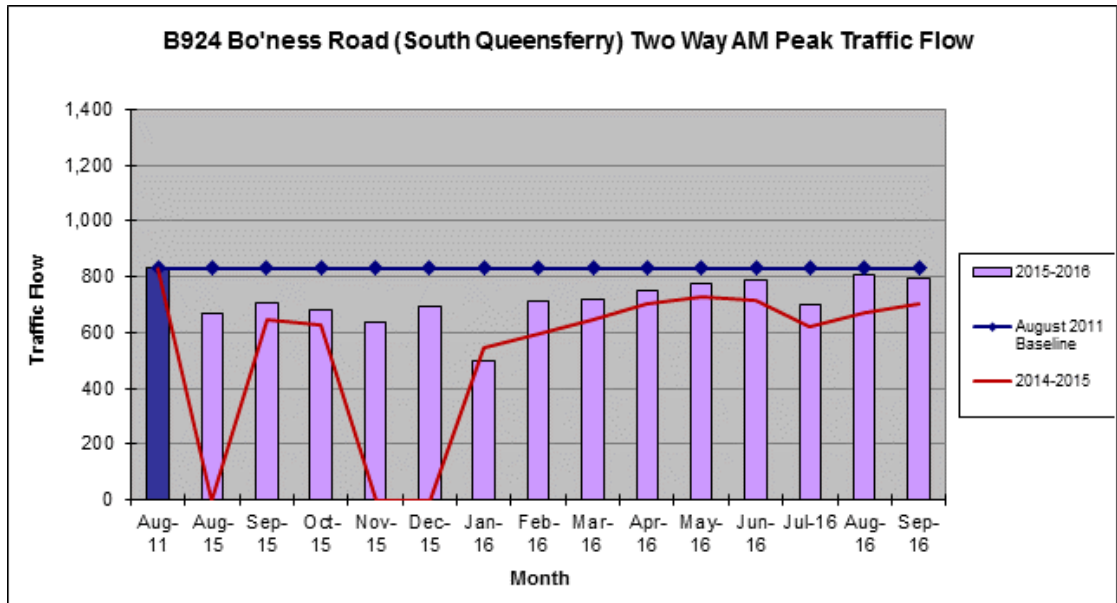


Figure 5-11 Monthly Two Way AM Peak Flows on the B924 Bo'ness Road (South Queensferry)

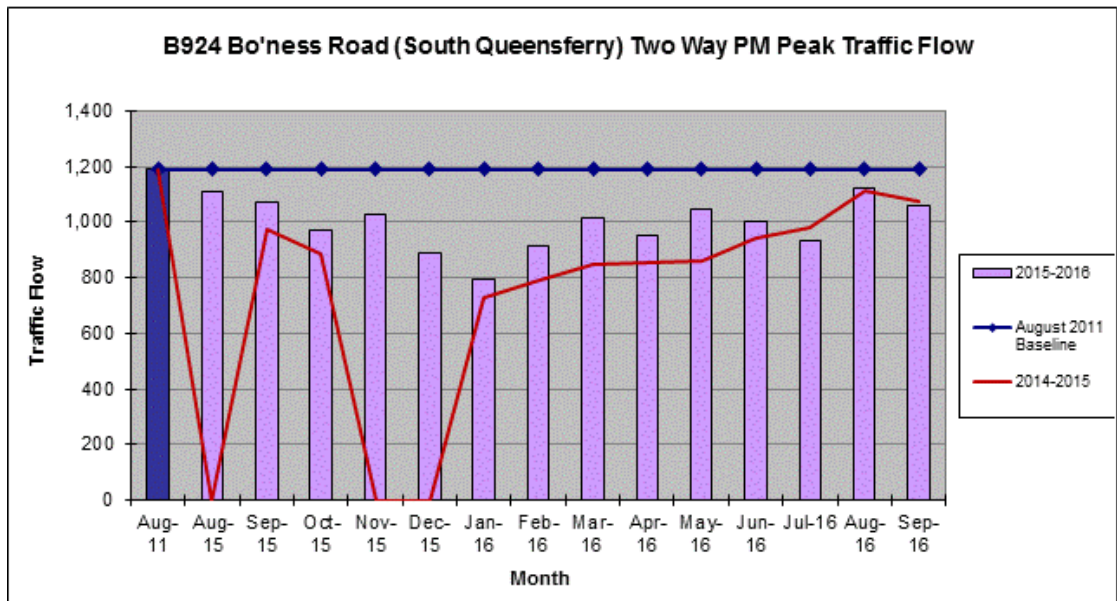


Figure 5-12 Monthly Two Way PM Peak Flows on the B924 Bo'ness Road (South Queensferry)

### 5.2.3 Monthly Average HGV Flows

Table 5-7 Site: JTC00575 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00575	B924 Bo'ness Road (South Queensferry)	Aug-11	136
		Aug-15	108
		Sep-15	108
		Oct-15	103
		Nov-15	102
		Dec-15	96
		Jan-16	81
		Feb-16	102
		Mar-16	104
		Apr-16	102
		May-16	102
		Jun-16	106
		Jul-16	101
		Aug-16	100
		Sep-16	96

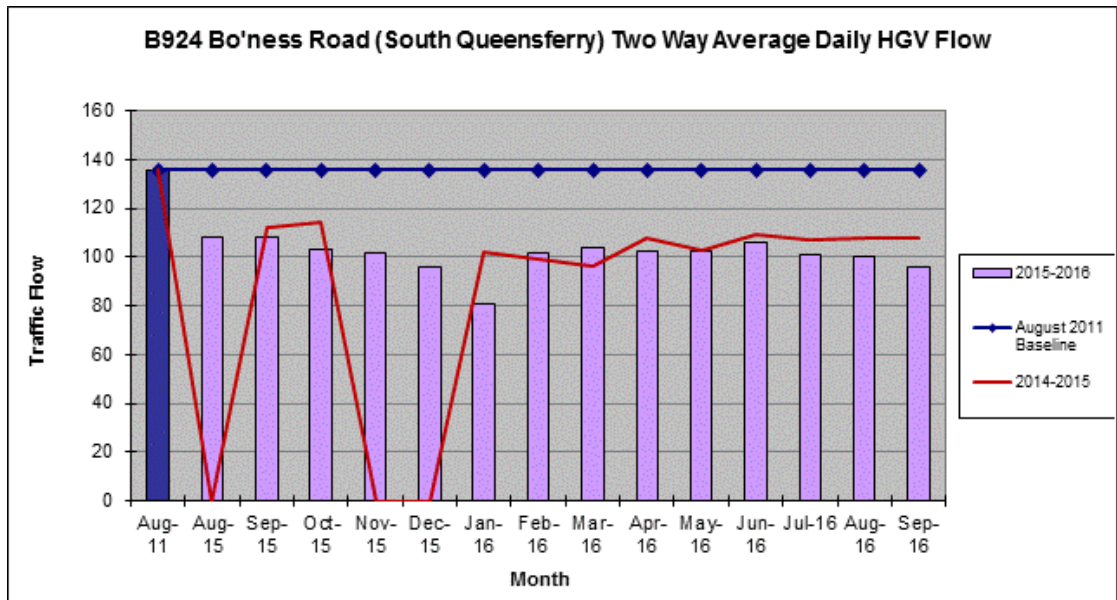
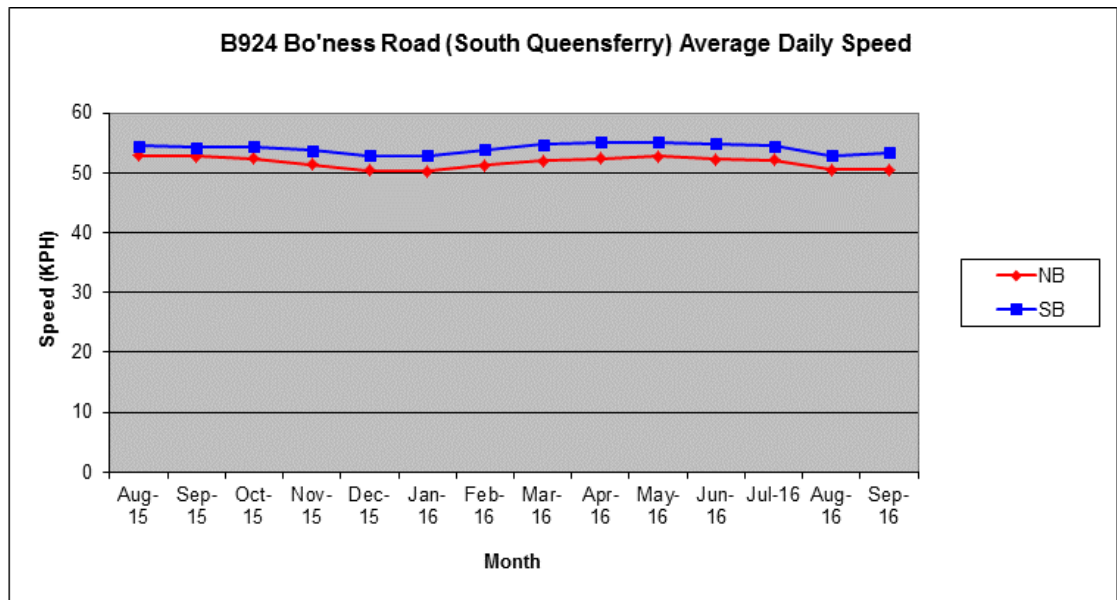


Figure 5-13 Monthly Two Way HGV Traffic Flows on the B924 Bo'ness Road (South Queensferry)

### 5.2.4 Monthly Average All Vehicles Traffic Speeds

**Table 5-8 Site: JTC00575 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00575	B924 Bo'ness Road (South Queensferry)	Aug-15	53	54
		Sep-15	53	54
		Oct-15	52	54
		Nov-15	51	54
		Dec-15	50	53
		Jan-16	50	53
		Feb-16	51	54
		Mar-16	52	55
		Apr-16	52	55
		May-16	53	55
		Jun-16	52	55
		Jul-16	52	54
		Aug-16	51	53
		Sep-16	50	53



**Figure 5-14 Average Monthly Traffic Speeds (KPH) on the B924 Bo'ness Road (South Queensferry)**

### 5.3 Traffic Counter JTC00577 - B800 Queensferry Rd (North of Kirkliston)

Summary of statistics between August 2015 and September 2016:

- Lower traffic flows observed in December 2015 due to FRB closure.
- Lower HGV flows through December 2015, January 2016, and February 2016 due to FRB closure and HGV restrictions.
- HGV traffic flows are generally higher when compared with the previous monitoring period, with the exceptions of December 2015, January 2016 and February 2016.

#### 5.3.1 Monthly Average Traffic Flows

**Table 5-9 Site: JTC00577 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00577	B800 Queensferry Rd (North of Kirkliston)	Aug-11	3,189	3,494	6,683
		Aug-15	No Data	No Data	No Data
		Sep-15	3,354	3,492	6,846
		Oct-15	3,295	3,413	6,707
		Nov-15	3,322	3,475	6,796
		Dec-15	2,577	2,546	5,123
		Jan-16	2,870	3,022	5,892
		Feb-16	3,094	3,321	6,416
		Mar-16	3,328	3,500	6,828
		Apr-16	3,390	3,567	6,956
		May-16	3,275	3,506	6,781
		Jun-16	3,284	3,565	6,849
		Jul-16	3,174	3,359	6,533
		Aug-16	3,354	3,598	6,952
		Sep-16	3,400	3,535	6,935
	<b>Annual Average</b>	<b>3,178</b>	<b>3,342</b>	<b>6,521</b>	

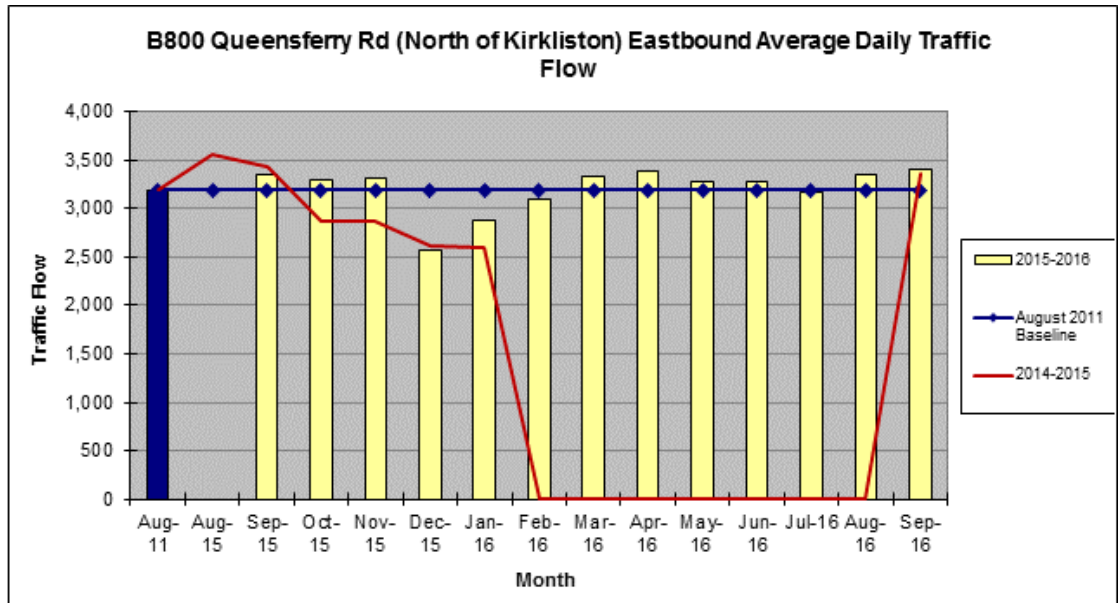


Figure 5-15 Monthly AADTs on the B800 Queensferry Rd (North of Kirkliston)

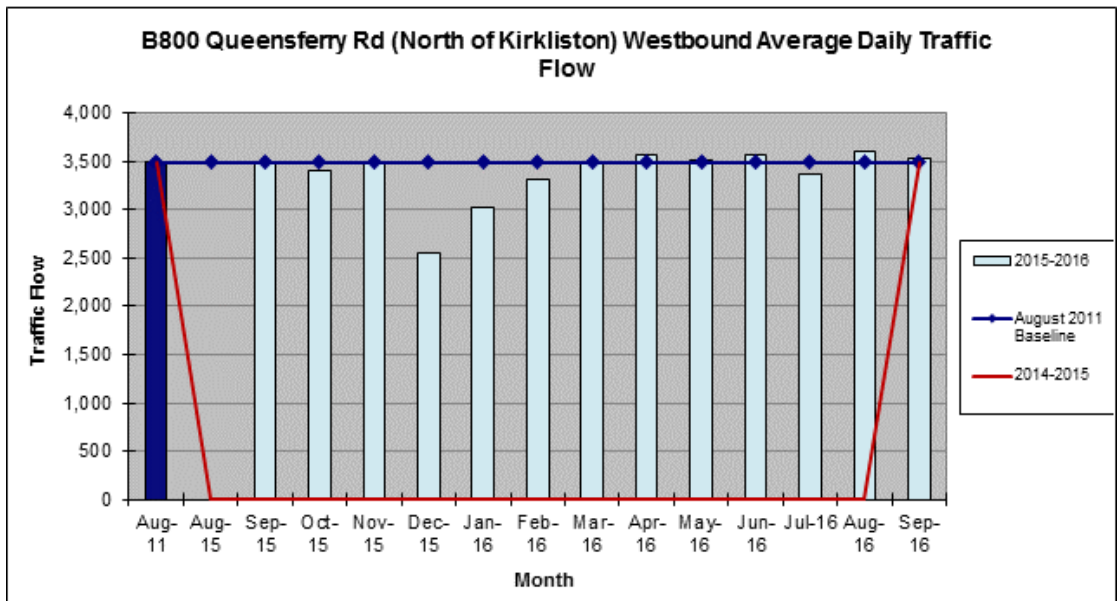


Figure 5-16 Monthly AADTs on the B800 Queensferry Rd (North of Kirkliston)

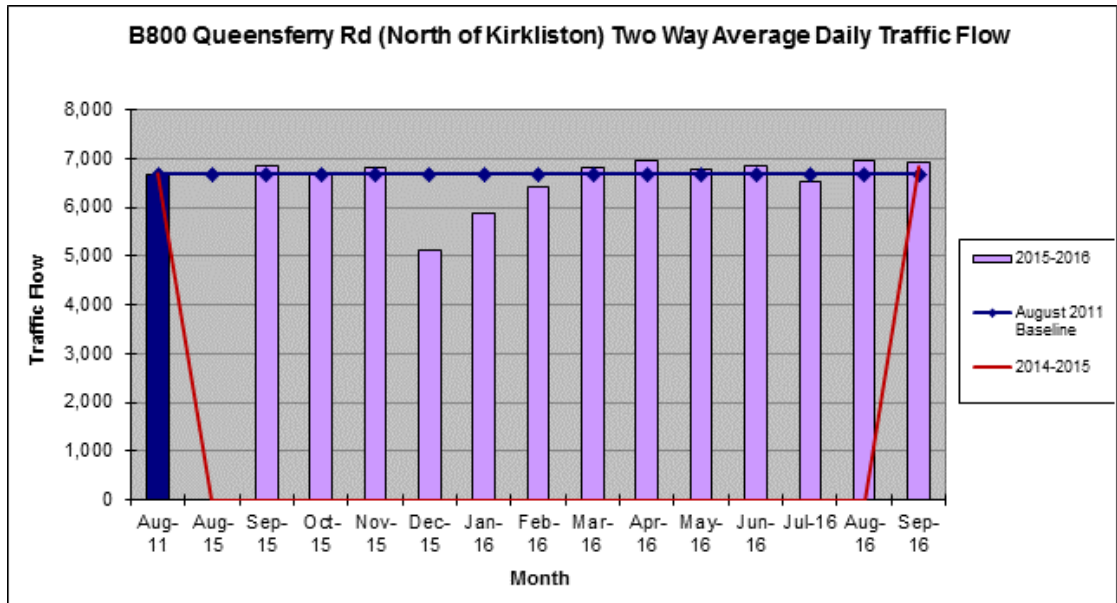


Figure 5-17 Monthly Two Way Daily Traffic Flows on the B800 Queensferry Rd (North of Kirkliston)

### 5.3.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-10 Site: JTC00577 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00577	B800 Queensferry Rd (North of Kirkliston)	Aug-11	1,185	1,728
		Aug-15	No Data	No Data
		Sep-15	1,198	1,729
		Oct-15	1,132	1,644
		Nov-15	1,019	1,627
		Dec-15	588	1,226
		Jan-16	846	1,467
		Feb-16	965	1,569
		Mar-16	1,038	1,686
		Apr-16	1,182	1,710
		May-16	1,107	1,681
		Jun-16	1,164	1,682
		Jul-16	993	1,607
		Aug-16	1,150	1,686
Sep-16	1,201	1,702		
	<b>Annual Average</b>	<b>1,021</b>	<b>1,603</b>	



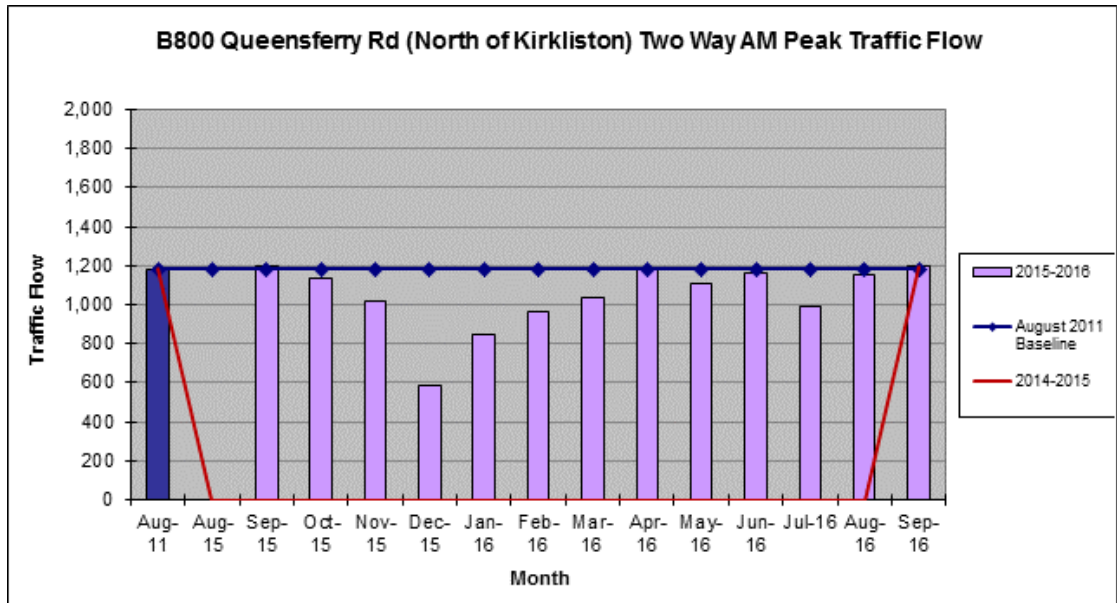


Figure 5-18 Monthly Two Way AM Peak Flows on the B800 Queensferry Rd (North of Kirkliston)

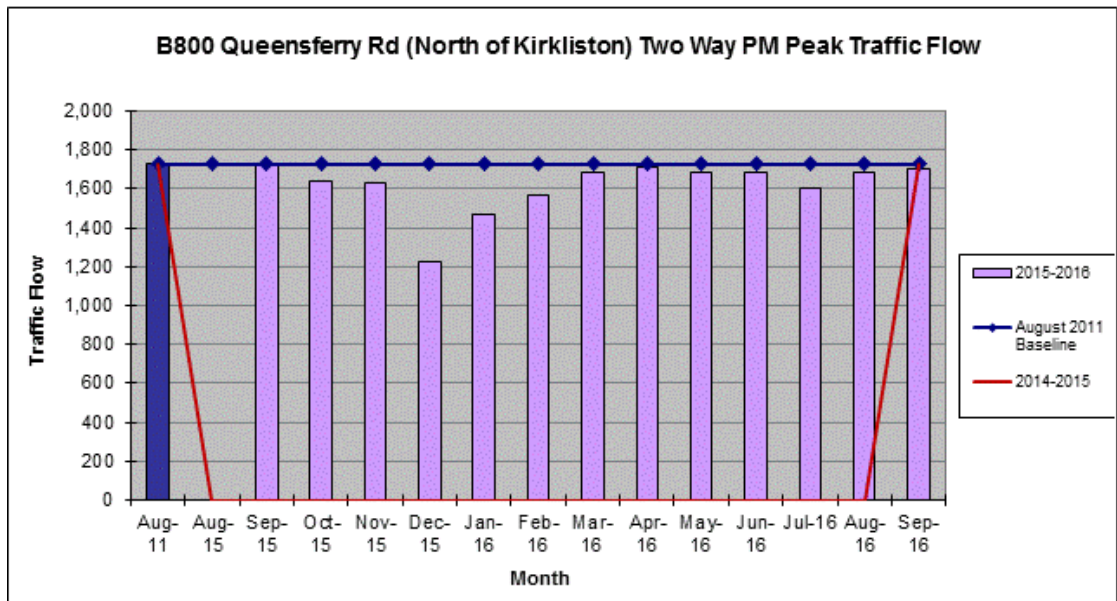


Figure 5-19 Monthly Two Way PM Peak Flows on the B800 Queensferry Rd (North of Kirkliston)

### 5.3.3 Monthly Average HGV Flows

Table 5-11 Site: JTC00577 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00577	B800 Queensferry Rd (North of Kirkliston)	Aug-11	69
		Aug-15	No Data
		Sep-15	74
		Oct-15	79
		Nov-15	81
		Dec-15	57
		Jan-16	62
		Feb-16	69
		Mar-16	74
		Apr-16	80
		May-16	83
		Jun-16	85
		Jul-16	78
		Aug-16	80
		Sep-16	77
<b>Annual Average</b>			<b>75</b>

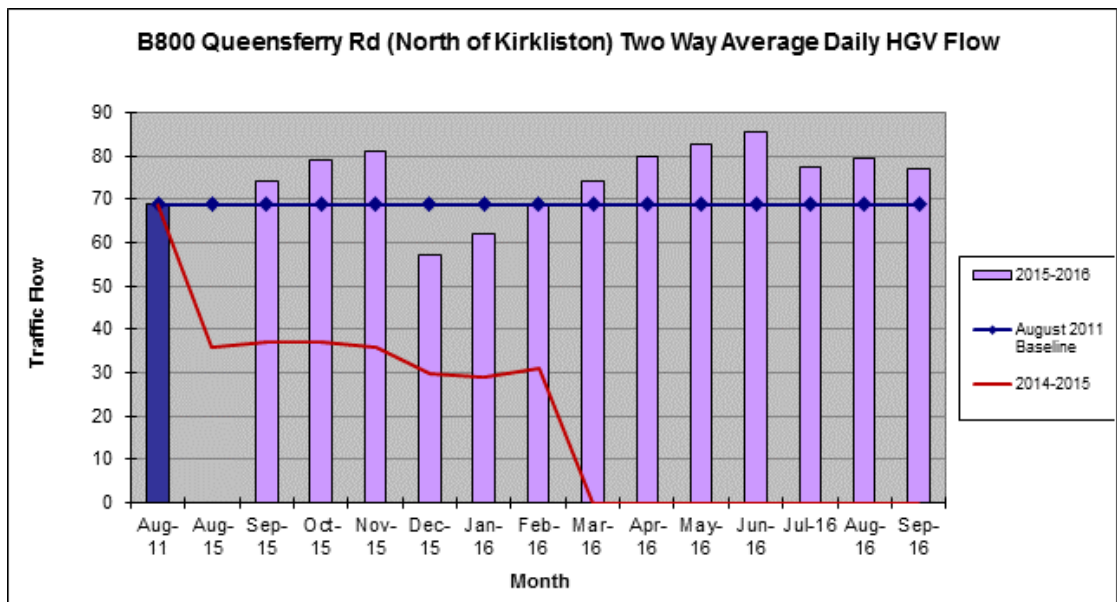
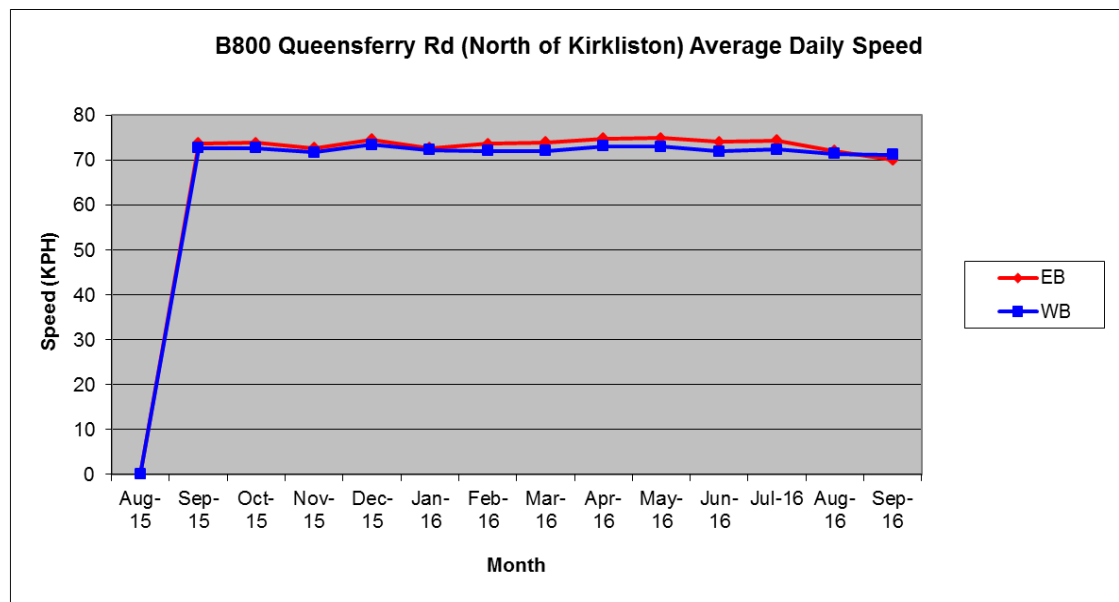


Figure 5-20 Monthly Two Way HGV Traffic Flows on the B800 Queensferry Rd (North of Kirkliston)

### 5.3.4 Monthly Average All Vehicles Traffic Speeds

**Table 5-12 Site: JTC00577 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00577	B800 Queensferry Rd (North of Kirkliston)	Aug-15	No Data	No Data
		Sep-15	74	73
		Oct-15	74	73
		Nov-15	73	72
		Dec-15	75	73
		Jan-16	73	72
		Feb-16	74	72
		Mar-16	74	72
		Apr-16	75	73
		May-16	75	73
		Jun-16	74	72
		Jul-16	74	72
		Aug-16	72	71
		Sep-16	70	71



**Figure 5-21 Average Monthly Traffic Speeds (KPH) on the B800 Queensferry Rd (North of Kirkliston)**

## 5.4 Traffic Counter JTC00581 - B981 Chapel Place (Inverkeithing)

Summary of statistics between August 2015 and September 2016:

- Monthly average traffic flows follow the same pattern as the previous monitoring period, but are slightly higher.
- HGV traffic volumes are significantly higher in December 2015 to August 2016 when compared to December 2014 to August 2015.

### 5.4.1 Monthly Average Traffic Flows

**Table 5-13 Site: JTC00581 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00581	B981 Chapel Place (Inverkeithing)	Aug-11	5,249	5,411	10,661
		Aug-15	5,857	6,194	12,051
		Sep-15	5,599	6,056	11,655
		Oct-15	5,519	5,772	11,291
		Nov-15	5,607	5,854	11,461
		Dec-15	6,126	6,289	12,415
		Jan-16	5,002	5,256	10,258
		Feb-16	5,345	5,715	11,061
		Mar-16	5,366	6,061	11,427
		Apr-16	5,294	6,145	11,439
		May-16	5,729	6,245	11,974
		Jun-16	5,694	6,293	11,987
		Jul-16	5,334	5,788	11,122
		Aug-16	5,813	6,461	12,275
		Sep-16	5,678	6,408	12,086
	<b>Annual Average</b>	<b>5,539</b>	<b>5,972</b>	<b>11,512</b>	

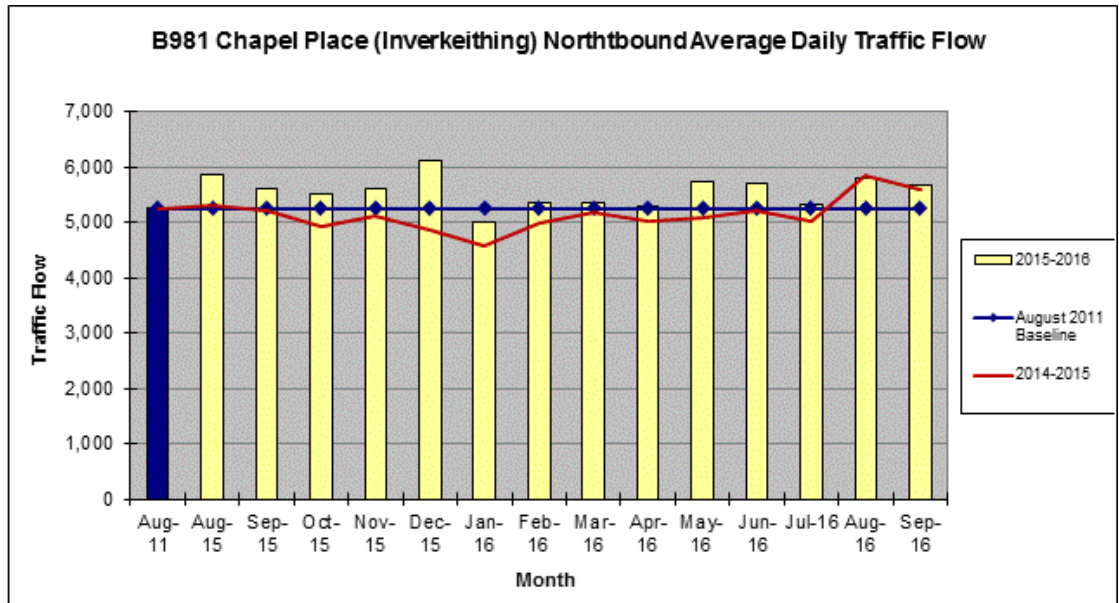


Figure 5-22 Monthly AADTs on the B981 Chapel Place (Inverkeithing)

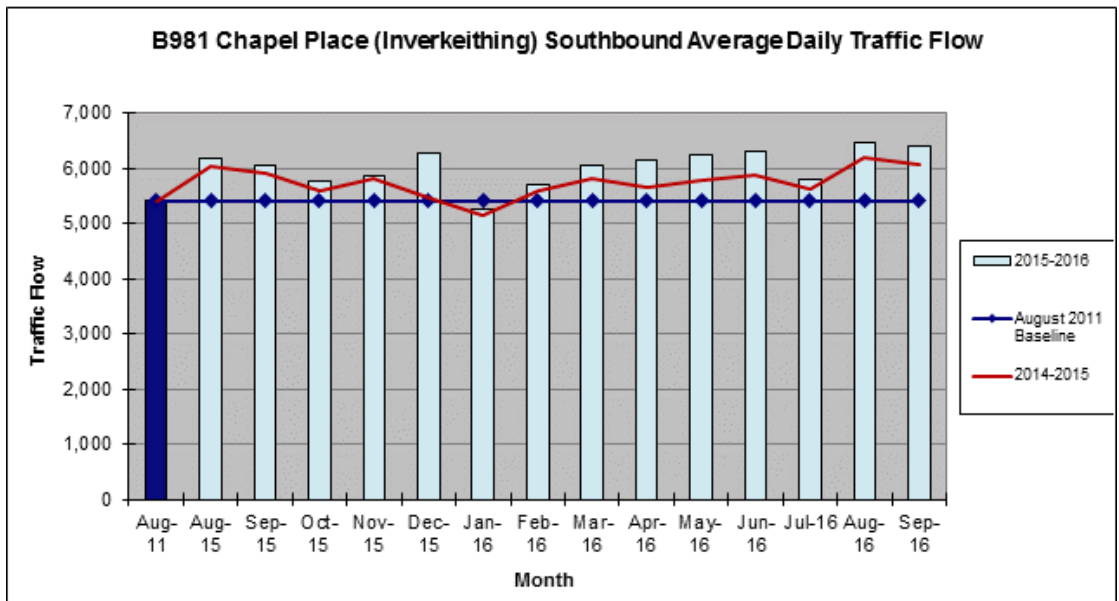


Figure 5-23 Monthly AADTs on the B981 Chapel Place (Inverkeithing)

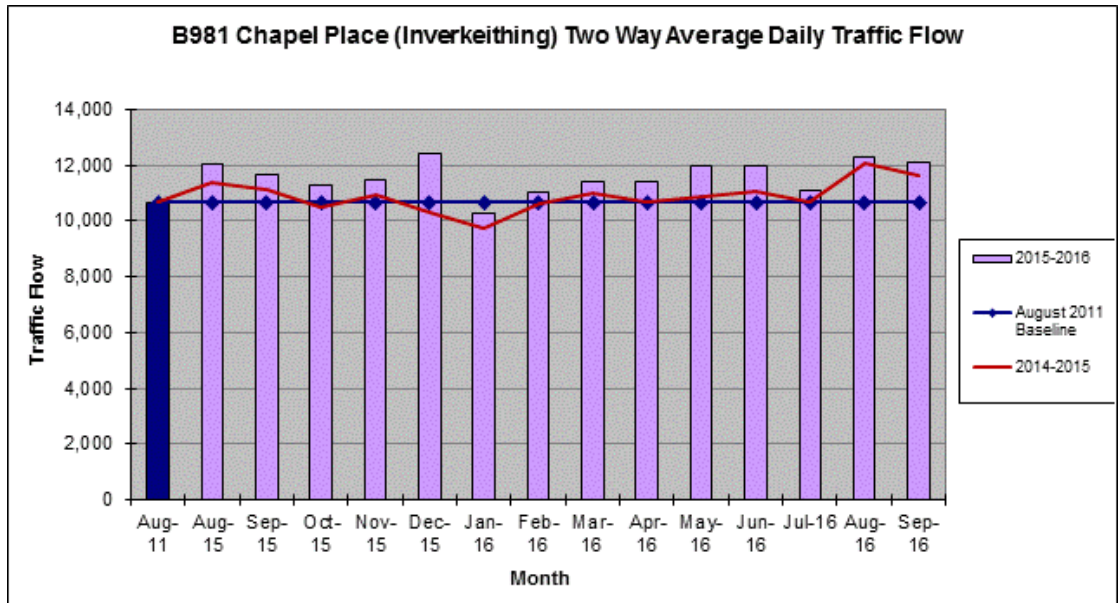


Figure 5-24 Monthly Two Way Daily Traffic Flows on the B981 Chapel Place (Inverkeithing)

### 5.4.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-14 Site: JTC00581 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00581	B981 Chapel Place (Inverkeithing)	Aug-11	1,798	2,528
		Aug-15	1,924	2,865
		Sep-15	2,129	2,920
		Oct-15	1,919	2,737
		Nov-15	1,842	2,694
		Dec-15	1,603	2,885
		Jan-16	1,572	2,456
		Feb-16	1,763	2,676
		Mar-16	1,889	2,653
		Apr-16	2,022	2,698
		May-16	2,107	2,837
		Jun-16	2,145	2,833
		Jul-16	1,775	2,597
		Aug-16	2,067	2,891
Sep-16	2,187	2,885		
	<b>Annual Average</b>	<b>1,891</b>	<b>2,738</b>	

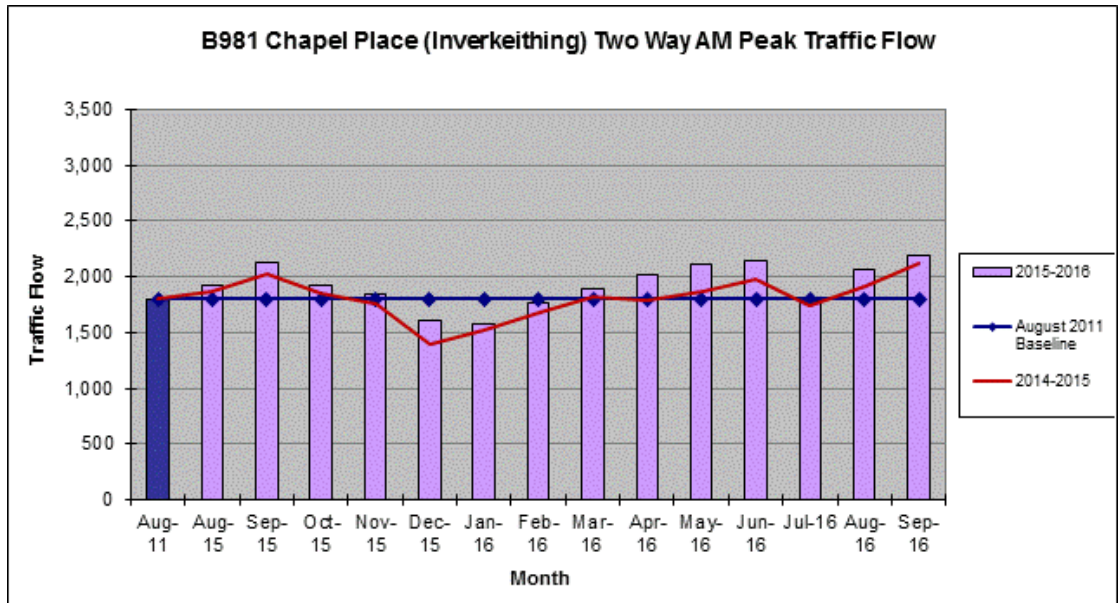


Figure 5-25 Monthly Two Way AM Peak Flows on the B981 Chapel Place (Inverkeithing)

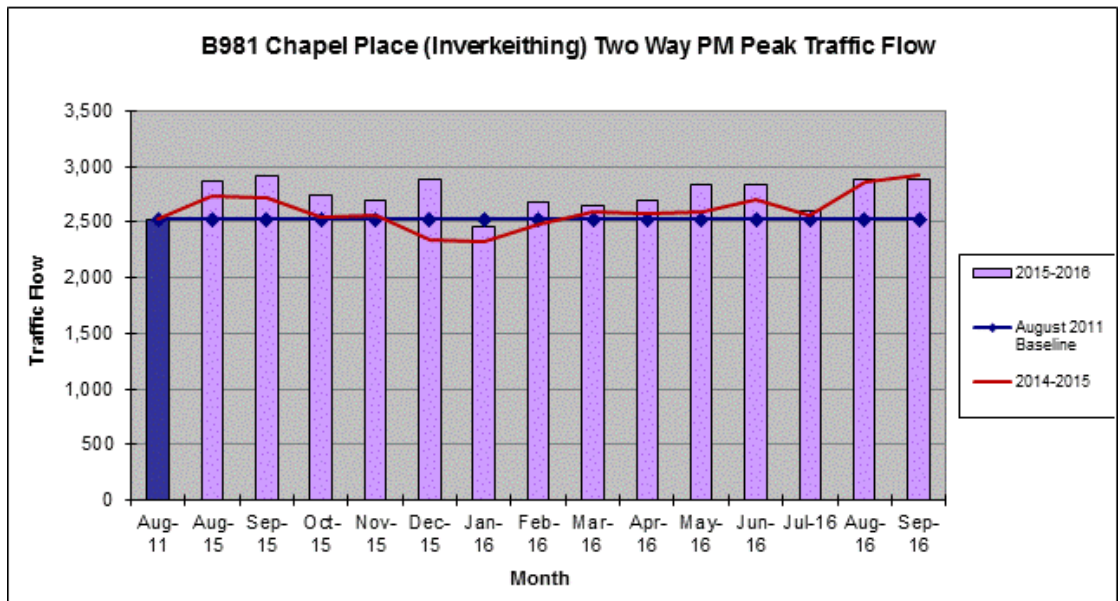


Figure 5-26 Monthly Two Way PM Peak Flows on the B981 Chapel Place (Inverkeithing)

### 5.4.3 Monthly Average HGV Flows

Table 5-15 Site: JTC00581 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00581	B981 Chapel Place (Inverkeithing)	Aug-11	149
		Aug-15	210
		Sep-15	189
		Oct-15	177
		Nov-15	205
		Dec-15	294
		Jan-16	264
		Feb-16	280
		Mar-16	282
		Apr-16	273
		May-16	265
		Jun-16	274
		Jul-16	268
		Aug-16	255
		Sep-16	188
		<b>Annual Average</b>	<b>248</b>

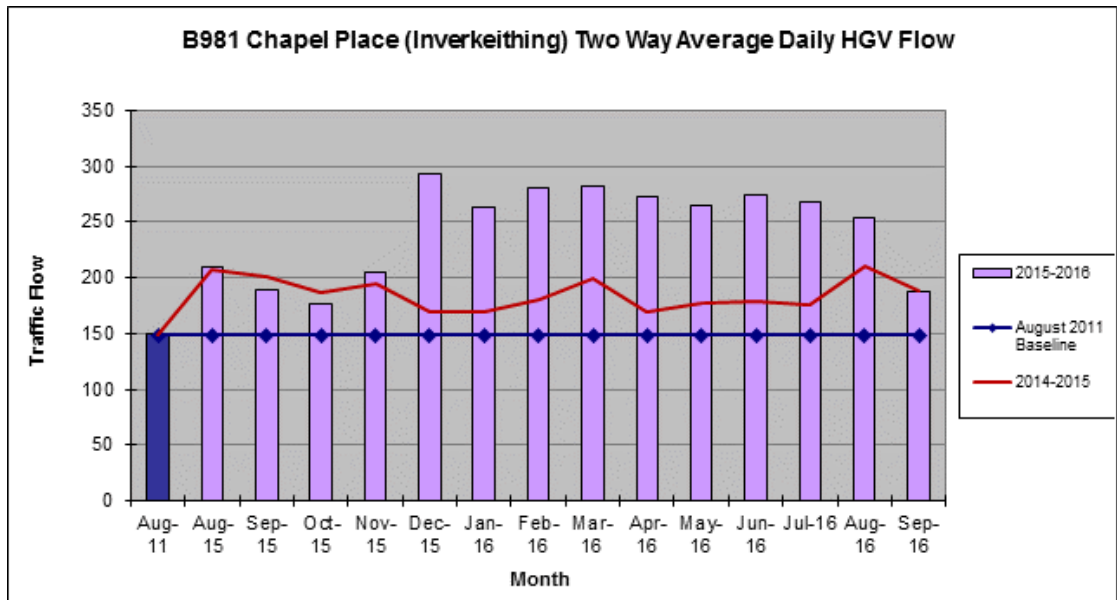


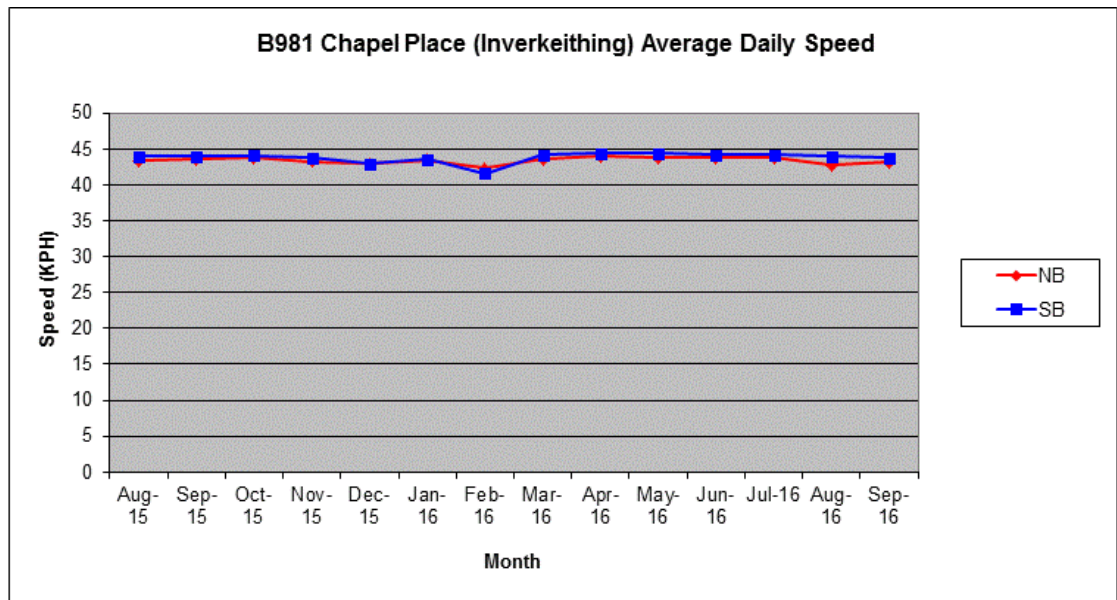
Figure 5-27 Monthly Two Way HGV Traffic Flows on the B981 Chapel Place (Inverkeithing)



### 5.4.4 Monthly Average All Vehicles Traffic Speeds

**Table 5-16 Site: JTC00581 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00581	B981 Chapel Place (Inverkeithing)	Aug-15	43	44
		Sep-15	44	44
		Oct-15	44	44
		Nov-15	43	44
		Dec-15	43	43
		Jan-16	43	44
		Feb-16	42	42
		Mar-16	44	44
		Apr-16	44	44
		May-16	44	44
		Jun-16	44	44
		Jul-16	44	44
		Aug-16	43	44
		Sep-16	43	44



**Figure 5-28 Average Monthly Traffic Speeds (KPH) on the B981 Chapel Place (Inverkeithing)**

## 5.5 Traffic Counter JTC00582 - B916 Aberdour Road (Dunfermline)

Summary of statistics between August 2015 and September 2016:

- Traffic flows are consistent with the previous monitoring period.
- Traffic flows are higher than the 2011 baseline, with the exception of the HGV flows, which are generally lower.

### 5.5.1 Monthly Average Traffic Flows

**Table 5-17 Site: JTC00582 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00582	B916 Aberdour Road (Dunfermline)	Aug-11	3,446	3,904	7,349
		Aug-15	4,514	4,696	9,210
		Sep-15	4,490	4,712	9,202
		Oct-15	4,361	4,620	8,981
		Nov-15	4,479	4,947	9,426
		Dec-15	4,340	4,600	8,940
		Jan-16	4,106	4,289	8,395
		Feb-16	4,443	4,744	9,187
		Mar-16	4,603	4,841	9,444
		Apr-16	4,591	4,797	9,388
		May-16	4,710	4,994	9,704
		Jun-16	4,698	4,971	9,669
		Jul-16	4,352	4,514	8,866
		Aug-16	No Data	No Data	No Data
		Sep-16	4,860	5,197	10,057
	<b>Annual Average</b>	<b>4,474</b>	<b>4,727</b>	<b>9,201</b>	

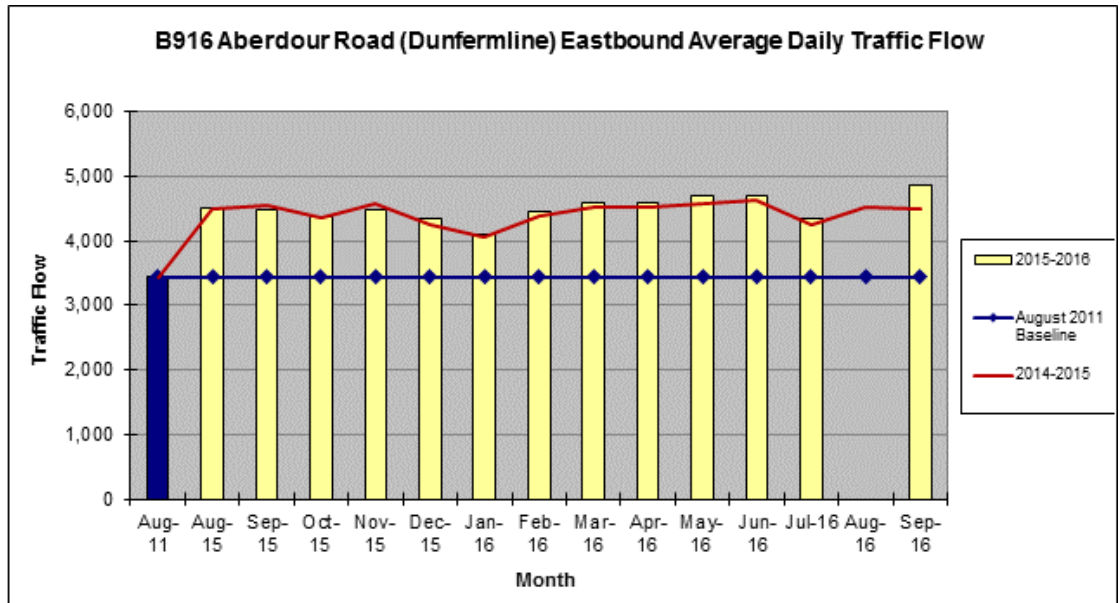


Figure 5-29 Monthly AADTs on the B916 Aberdour Road (Dunfermline)

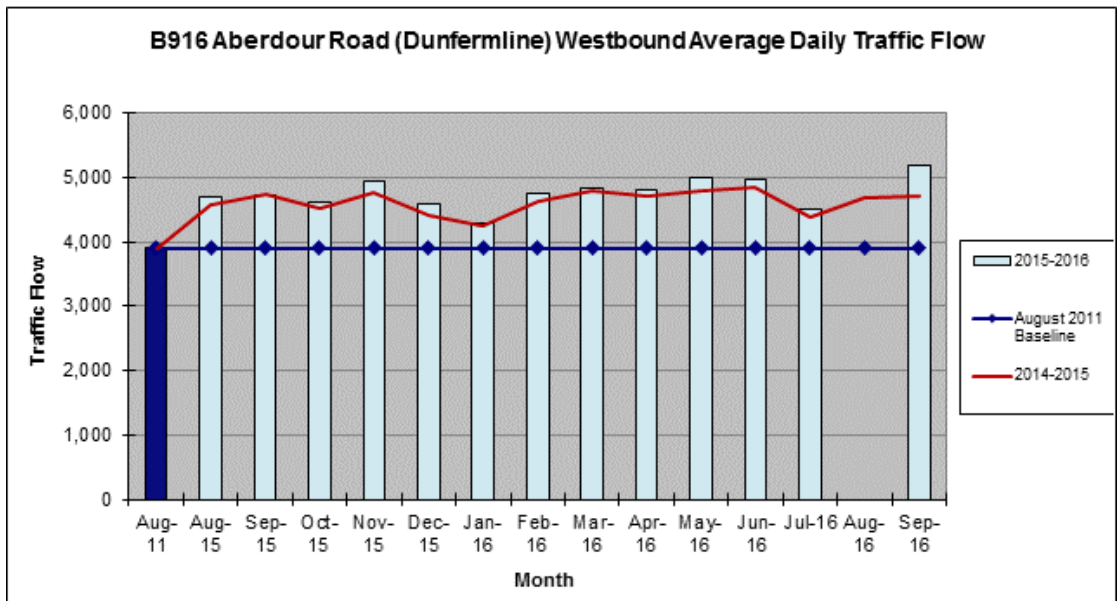


Figure 5-30 Monthly AADTs on the B916 Aberdour Road (Dunfermline)

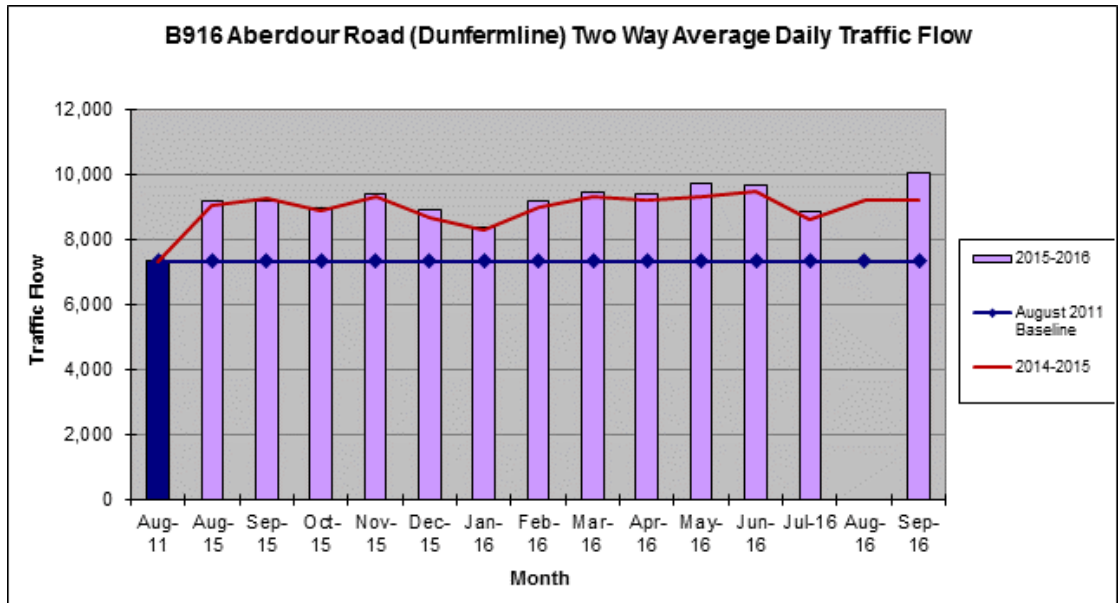


Figure 5-31 Monthly Two Way Daily Traffic Flows on the B916 Aberdour Road (Dunfermline)

### 5.5.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-18 Site: JTC00582 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00582	B916 Aberdour Road (Dunfermline)	Aug-11	1,162	1,794
		Aug-15	1,485	2,236
		Sep-15	1,601	2,275
		Oct-15	1,558	2,190
		Nov-15	1,484	2,238
		Dec-15	1,158	2,082
		Jan-16	1,278	2,050
		Feb-16	1,431	2,253
		Mar-16	1,486	2,286
		Apr-16	1,588	2,253
		May-16	1,634	2,321
		Jun-16	1,686	2,307
		Jul-16	1,399	2,125
		Aug-16	No Data	No Data
Sep-16	1,843	2,453		
	<b>Annual Average</b>	<b>1,482</b>	<b>2,218</b>	

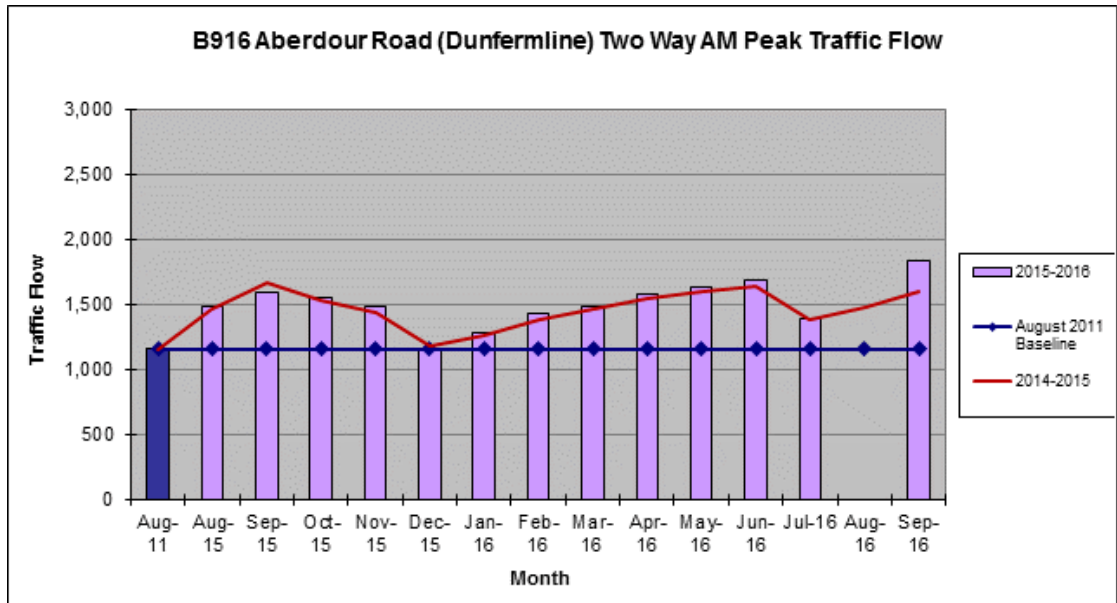


Figure 5-32 Monthly Two Way AM Peak Flows on the B916 Aberdour Road (Dunfermline)

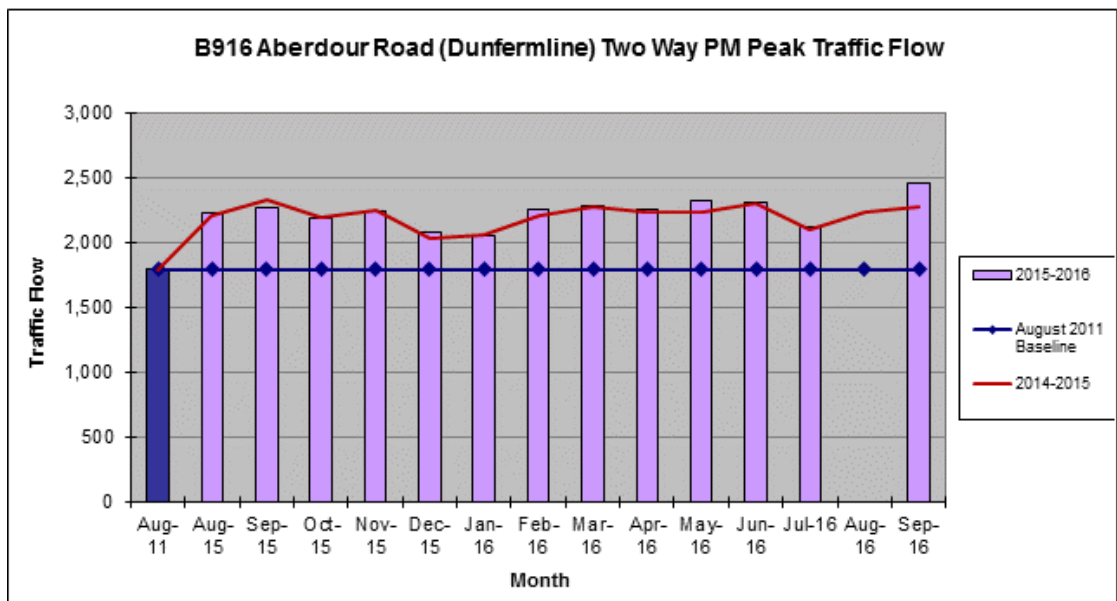


Figure 5-33 Monthly Two Way PM Peak Flows on the B916 Aberdour Road (Dunfermline)

### 5.5.3 Monthly Average HGV Flows

Table 5-19 Site: JTC00582 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00582	B916 Aberdour Road (Dunfermline)	Aug-11	101
		Aug-15	40
		Sep-15	43
		Oct-15	48
		Nov-15	51
		Dec-15	59
		Jan-16	39
		Feb-16	44
		Mar-16	44
		Apr-16	39
		May-16	46
		Jun-16	46
		Jul-16	43
		Aug-16	No Data
		Sep-16	53
		<b>Annual Average</b>	<b>45</b>

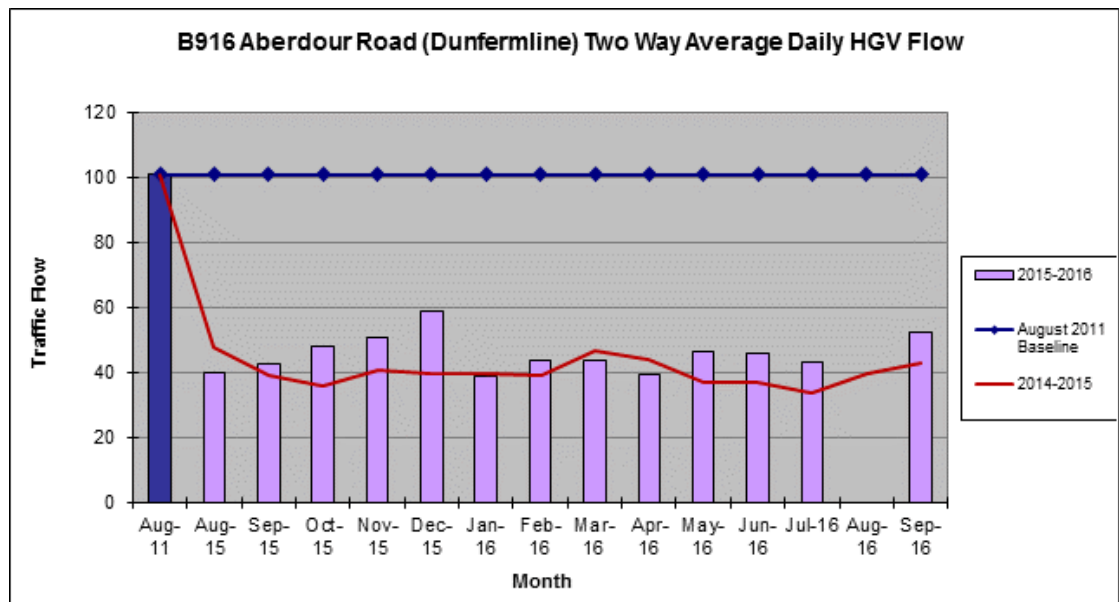
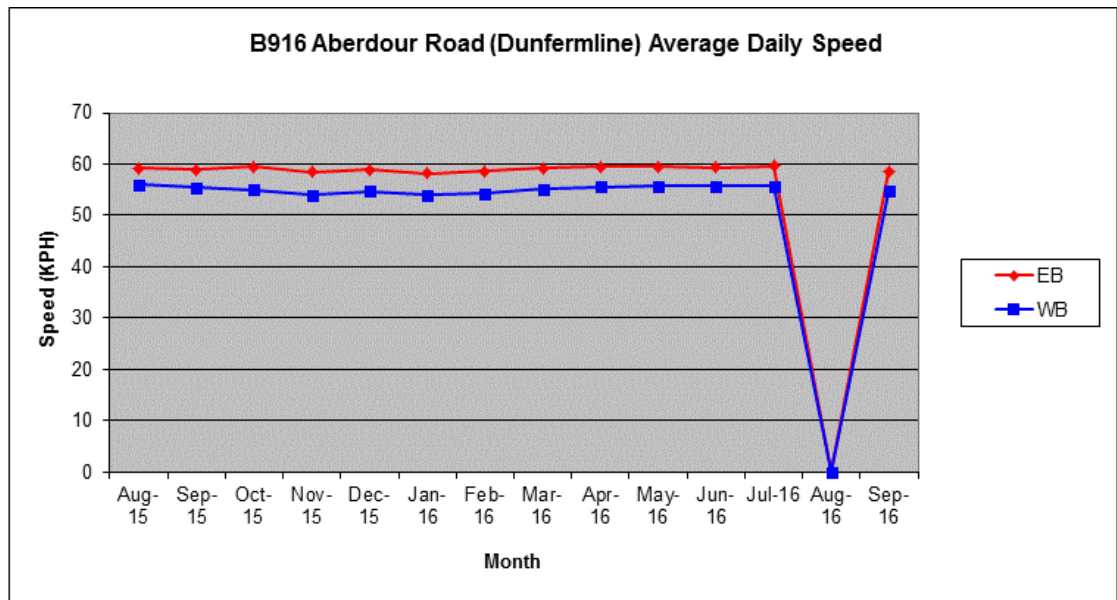


Figure 5-34 Monthly Two Way HGV Traffic Flows on the B916 Aberdour Road (Dunfermline)

### 5.5.4 Monthly Average All Vehicles Traffic Speeds

**Table 5-20 Site: JTC00582 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00582	B916 Aberdour Road (Dunfermline)	Aug-15	59	56
		Sep-15	59	55
		Oct-15	59	55
		Nov-15	58	54
		Dec-15	59	55
		Jan-16	58	54
		Feb-16	59	54
		Mar-16	59	55
		Apr-16	60	56
		May-16	59	56
		Jun-16	59	56
		Jul-16	60	56
		Aug-16	No Data	No Data
		Sep-16	59	55



**Figure 5-35 Average Monthly Traffic Speeds (KPH) on the B916 Aberdour Road (Dunfermline)**

## 5.6 Traffic Counter JTC00583 - B981 Inverkeithing Road (Crossgates)

Summary of statistics between August 2015 and September 2016:

- Traffic flows are consistent with the previous monitoring period, with the exception of the HGV flows, which are generally higher.
- Traffic flows are higher than the 2011 baseline.
- Data has been intermittent throughout the monitoring period, with no data recorded at all in some months, and only a limited number of reliable days recorded in others.

### 5.6.1 Monthly Average Traffic Flows

**Table 5-21 Site: JTC00583 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00583	B981 Inverkeithing Road (Crossgates)	Aug-11	2,339	2,629	4,968
		Aug-15	2,821	3,299	6,120
		Sep-15	2,936	3,406	6,342
		Oct-15	2,599	2,985	5,584
		Nov-15	No Data	No Data	No Data
		Dec-15	No Data	No Data	No Data
		Jan-16	No Data	No Data	No Data
		Feb-16	No Data	No Data	No Data
		Mar-16	No Data	No Data	No Data
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	3,071	3,653	6,724
		Jul-16	2,730	3,136	5,866
		Aug-16	2,961	3,838	6,799
		Sep-16	No Data	No Data	No Data
	<b>Annual Average</b>	<b>2,831</b>	<b>3,296</b>	<b>6,127</b>	



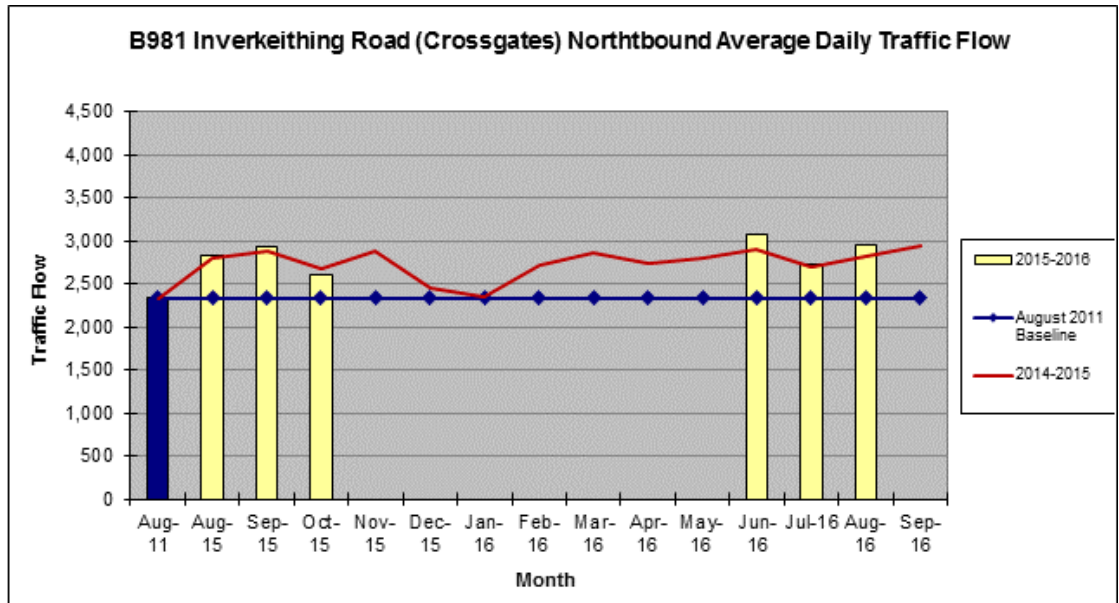


Figure 5-36 Monthly AADTs on the B981 Inverkeithing Road (Crossgates)

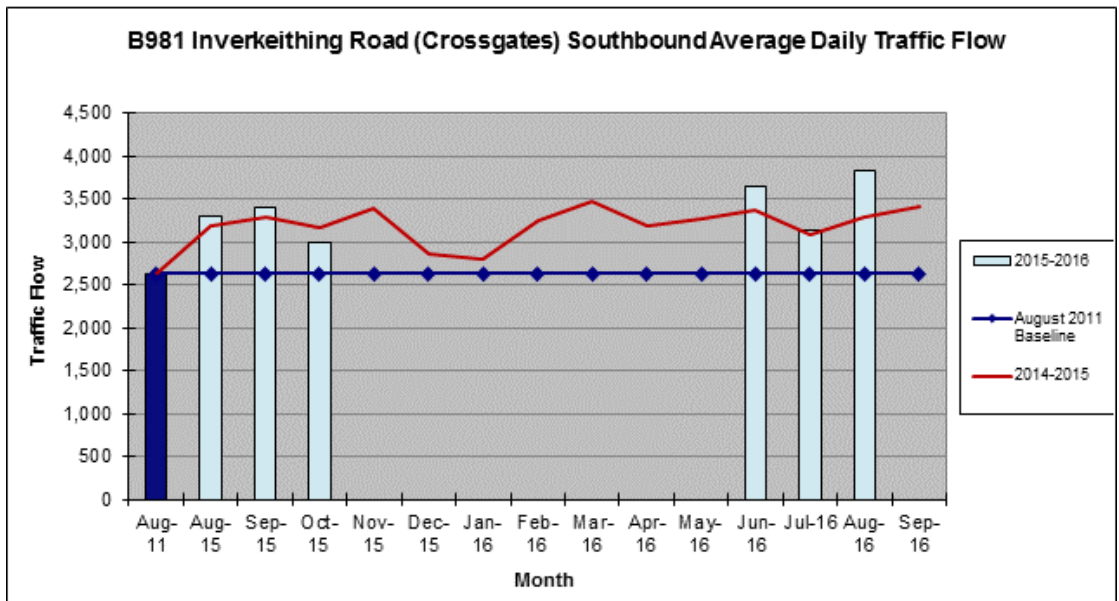


Figure 5-37 Monthly AADTs on the B981 Inverkeithing Road (Crossgates)

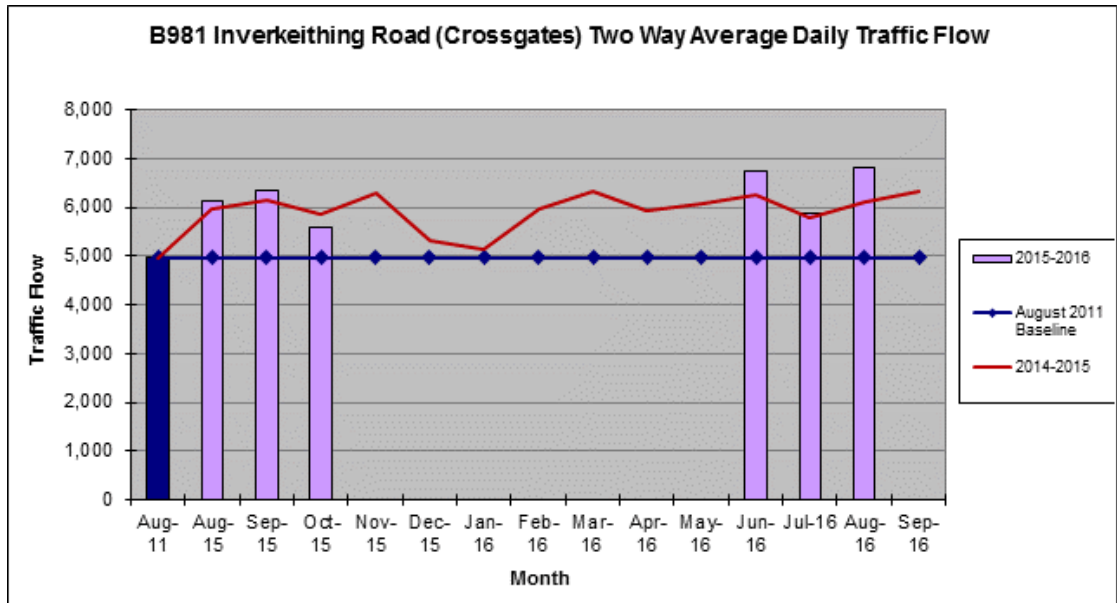


Figure 5-38 Monthly Two Way Daily Traffic Flows on the B981 Inverkeithing Road (Crossgates)

### 5.6.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-22 Site: JTC00583 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00583	B981 Inverkeithing Road (Crossgates)	Aug-11	929	1,223
		Aug-15	1,095	1,500
		Sep-15	1,299	1,612
		Oct-15	1,101	1,378
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	1,382	1,564
		Jul-16	1,032	1,387
		Aug-16	1,289	1,707
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>1,182</b>	<b>1,488</b>	

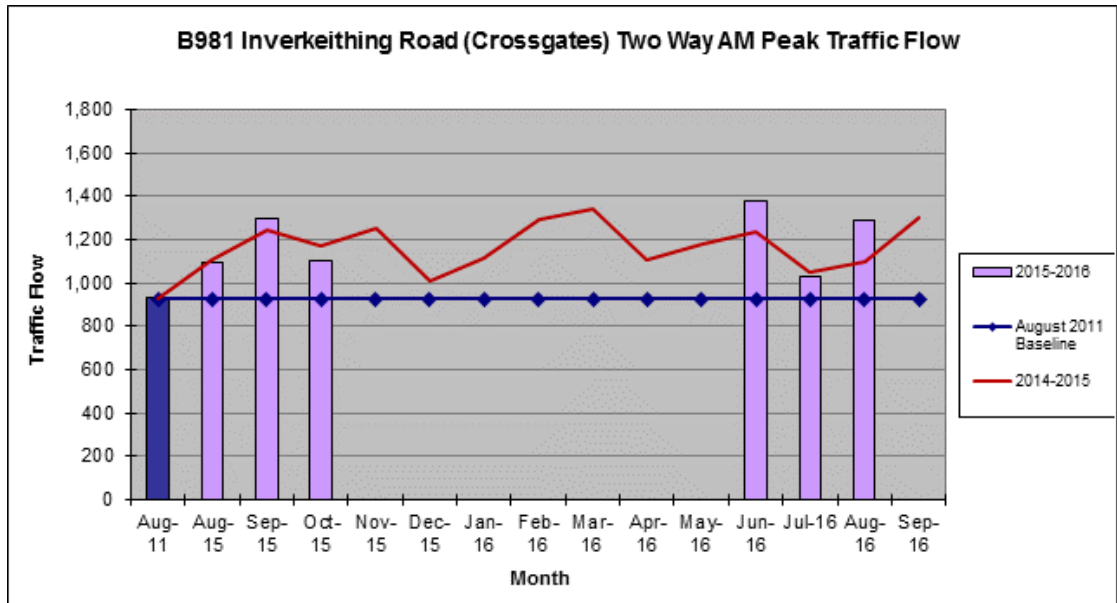


Figure 5-39 Monthly Two Way AM Peak Flows on the B981 Inverkeithing Road (Crossgates)

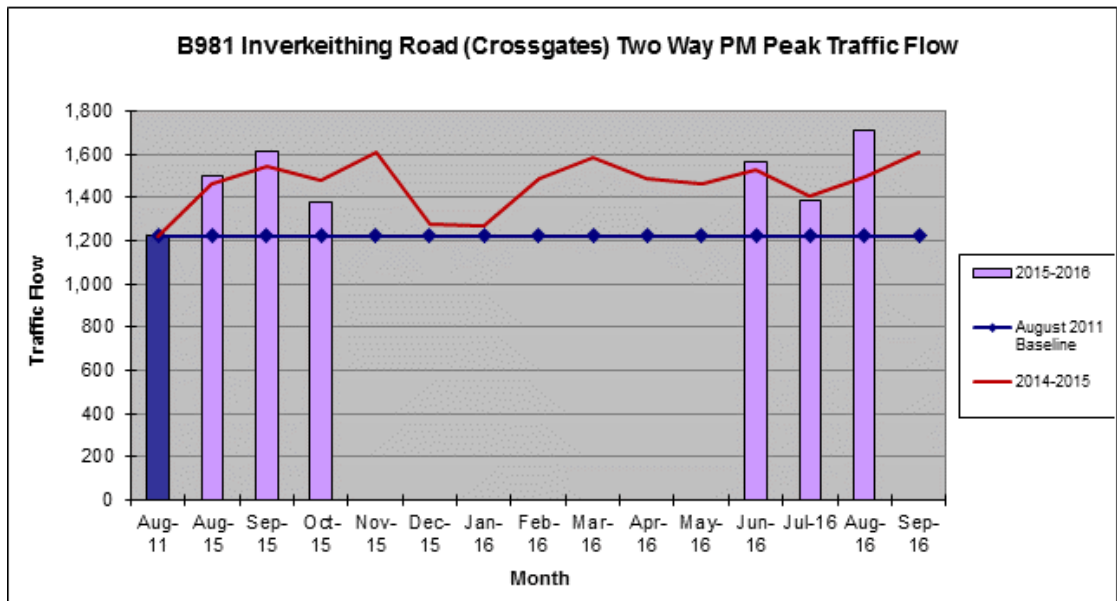


Figure 5-40 Monthly Two Way PM Peak Flows on the B981 Inverkeithing Road (Crossgates)

### 5.6.3 Monthly Average HGV Flows

Table 5-23 Site: JTC00583 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00583	B981 Inverkeithing Road (Crossgates)	Aug-11	14
		Aug-15	24
		Sep-15	32
		Oct-15	33
		Nov-15	No Data
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	41
		Jul-16	24
		Aug-16	40
		Sep-16	No Data

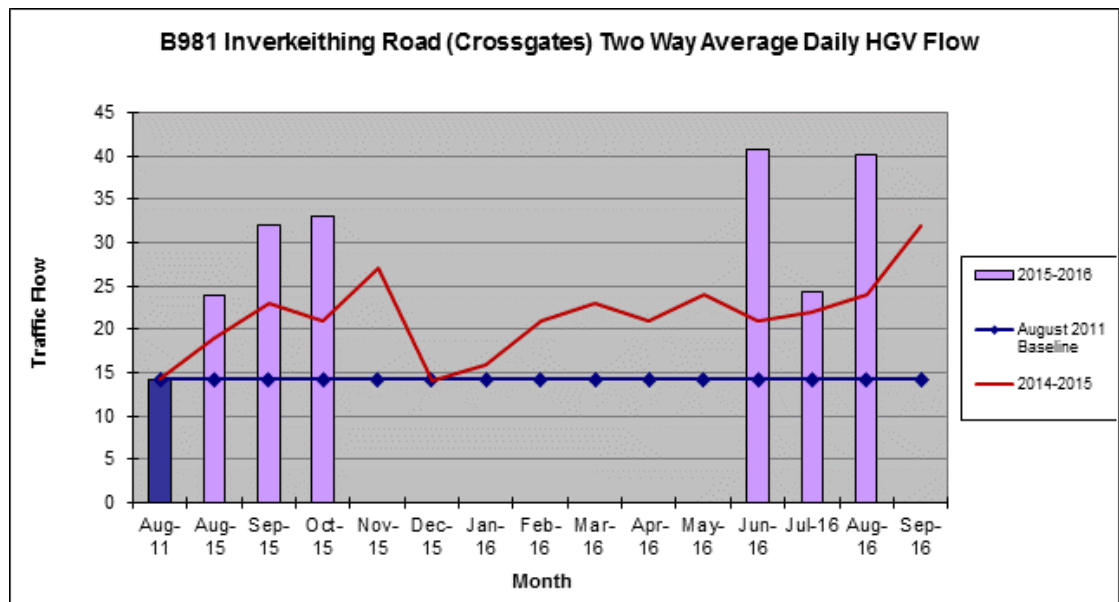
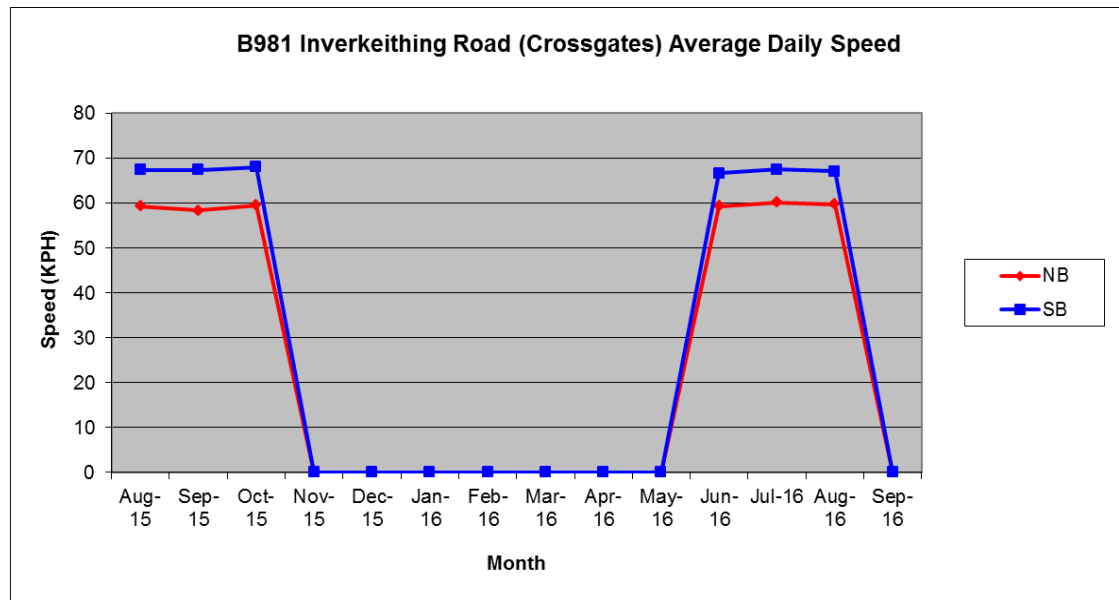


Figure 5-41 Monthly Two Way HGV Traffic Flows on the B981 Inverkeithing Road (Crossgates)

### 5.6.4 Monthly Average All Vehicles Traffic Speeds

**Table 5-24 Site: JTC00583 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00583	B981 Inverkeithing Road (Crossgates)	Aug-15	59	67
		Sep-15	58	67
		Oct-15	59	68
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	59	67
		Jul-16	60	67
		Aug-16	60	67
		Sep-16	No Data	No Data



**Figure 5-42 Average Monthly Traffic Speeds (KPH) on the B981 Inverkeithing Road (Crossgates)**

## 5.7 Traffic Counter JTC00586 - B980 Castlandhill Road (North of A90 Slip)

Summary of statistics between August 2015 and September 2016:

- Traffic flows are higher than those recorded in the previous monitoring period and the 2011 baseline.
- No data since November 2015 due to project construction works. The counter will be reinstated in time to produce data for the next reporting period.

### 5.7.1 Monthly Average Traffic Flows

**Table 5-25 Site: JTC00586 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00586	B980 Castlandhill Road (North of A90 Slip)	Aug-11	1,590	1,612	3,203
		Aug-15	1,878	2,152	4,030
		Sep-15	2,046	2,096	4,141
		Oct-15	2,098	1,951	4,050
		Nov-15	2,080	1,925	4,005
		Dec-15	No Data	No Data	No Data
		Jan-16	No Data	No Data	No Data
		Feb-16	No Data	No Data	No Data
		Mar-16	No Data	No Data	No Data
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	No Data	No Data	No Data
		Jul-16	No Data	No Data	No Data
		Aug-16	No Data	No Data	No Data
		Sep-16	No Data	No Data	No Data
		<b>Annual Average</b>	<b>2,026</b>	<b>2,031</b>	<b>4,057</b>

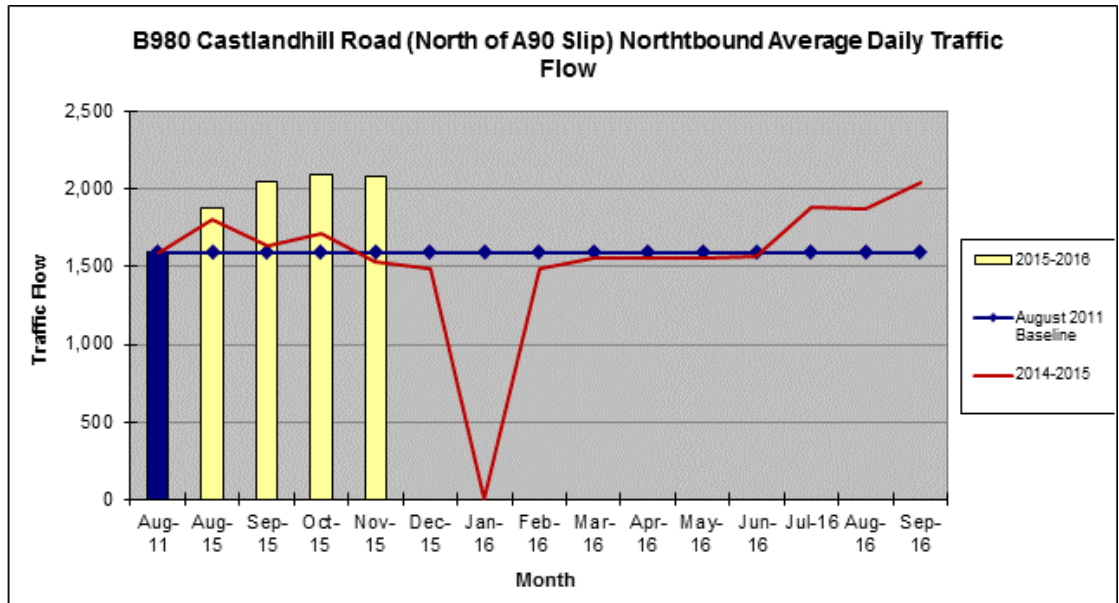


Figure 5-43 Monthly AADTs on the B980 Castlandhill Road (North of A90 Slip)

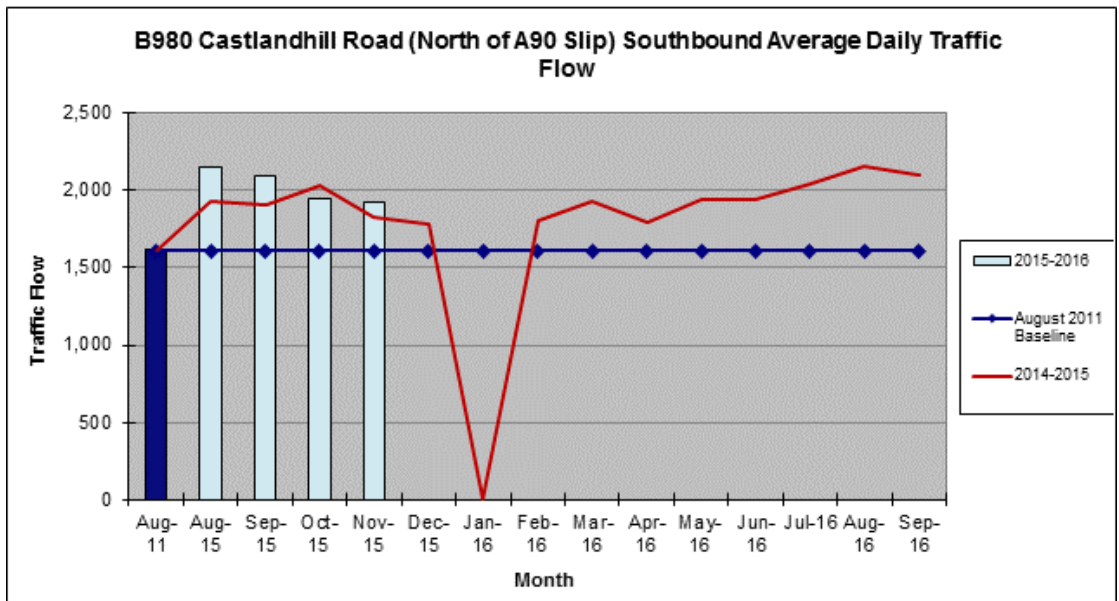


Figure 5-44 Monthly AADTs on the B980 Castlandhill Road (North of A90 Slip)

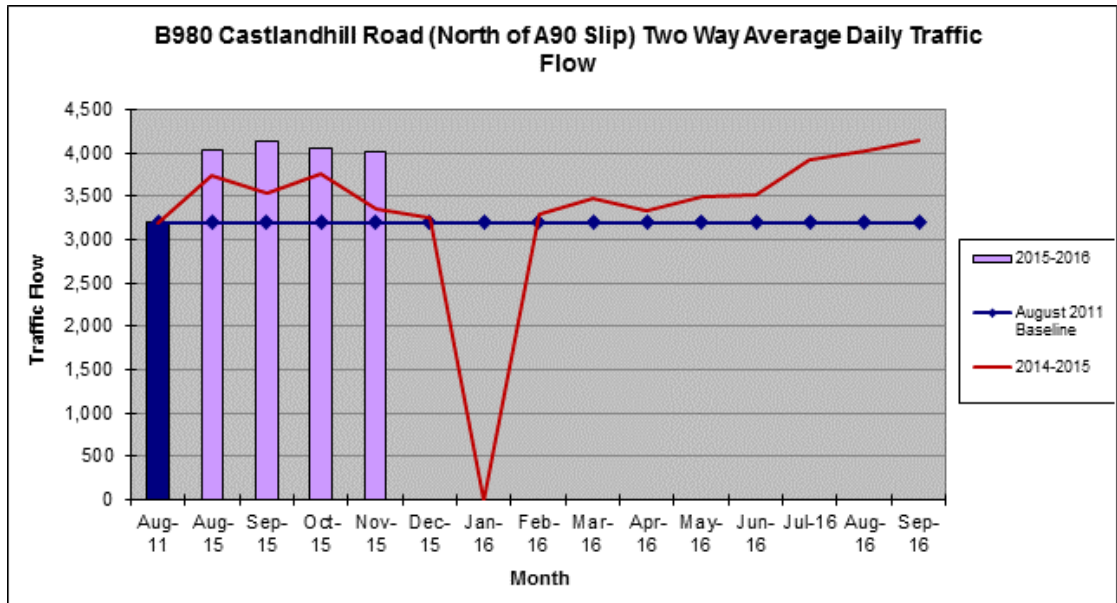


Figure 5-45 Monthly Two Way Daily Traffic Flows on the B980 Castlandhill Road (North of A90 Slip)

### 5.7.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-26 Site: JTC00586 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00586	B980 Castlandhill Road (North of A90 Slip)	Aug-11	609	768
		Aug-15	784	947
		Sep-15	929	1,025
		Oct-15	861	1,010
		Nov-15	1,038	984
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
		<b>Annual Average</b>	<b>903</b>	<b>991</b>



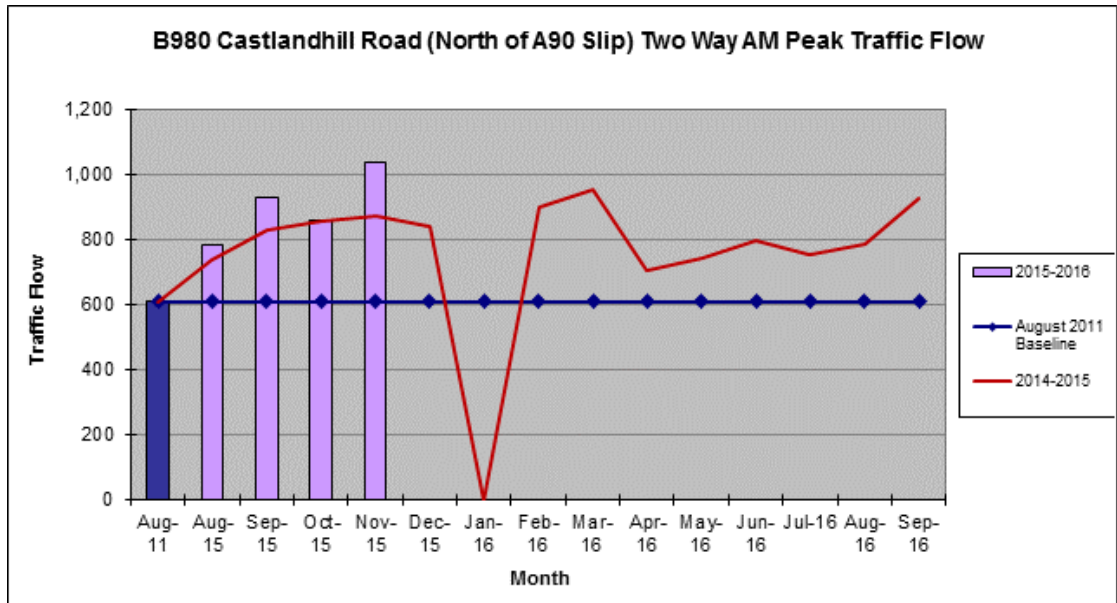


Figure 5-46 Monthly Two Way AM Peak Flows on the B980 Castlandhill Road (North of A90 Slip)

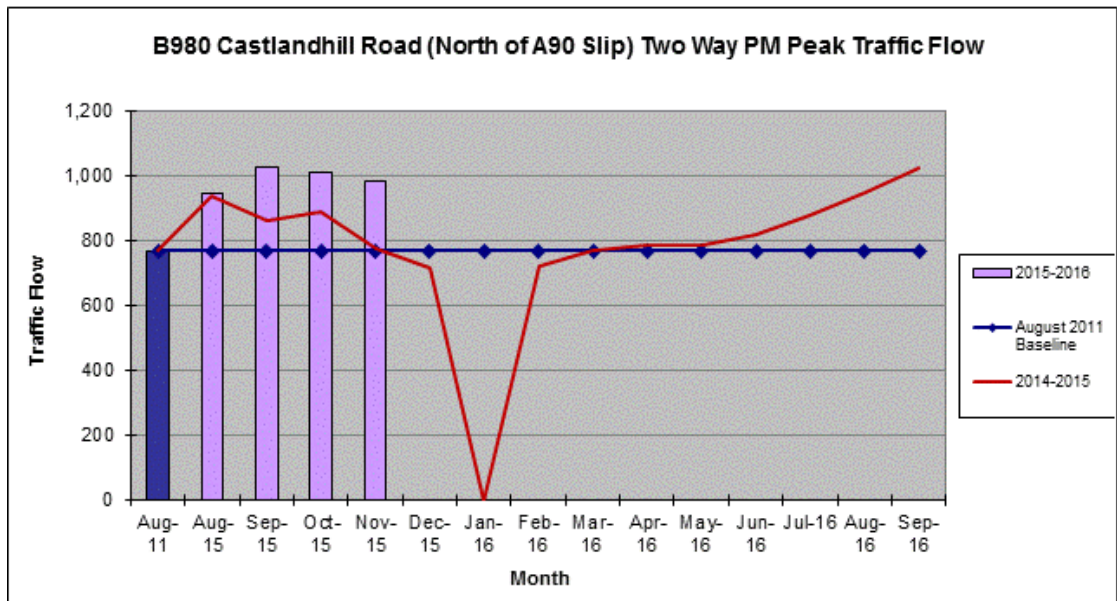


Figure 5-47 Monthly Two Way PM Peak Flows on the B980 Castlandhill Road (North of A90 Slip)

### 5.7.3 Monthly Average HGV Flows

Table 5-27 Site: JTC00586 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way	
JTC00586	B980 Castlandhill Road (North of A90 Slip)	Aug-11	129	
		Aug-15	151	
		Sep-15	158	
		Oct-15	171	
		Nov-15	153	
		Dec-15	No Data	
		Jan-16	No Data	
		Feb-16	No Data	
		Mar-16	No Data	
		Apr-16	No Data	
		May-16	No Data	
		Jun-16	No Data	
		Jul-16	No Data	
		Aug-16	No Data	
		Sep-16	No Data	
		<b>Annual Average</b>		<b>158</b>

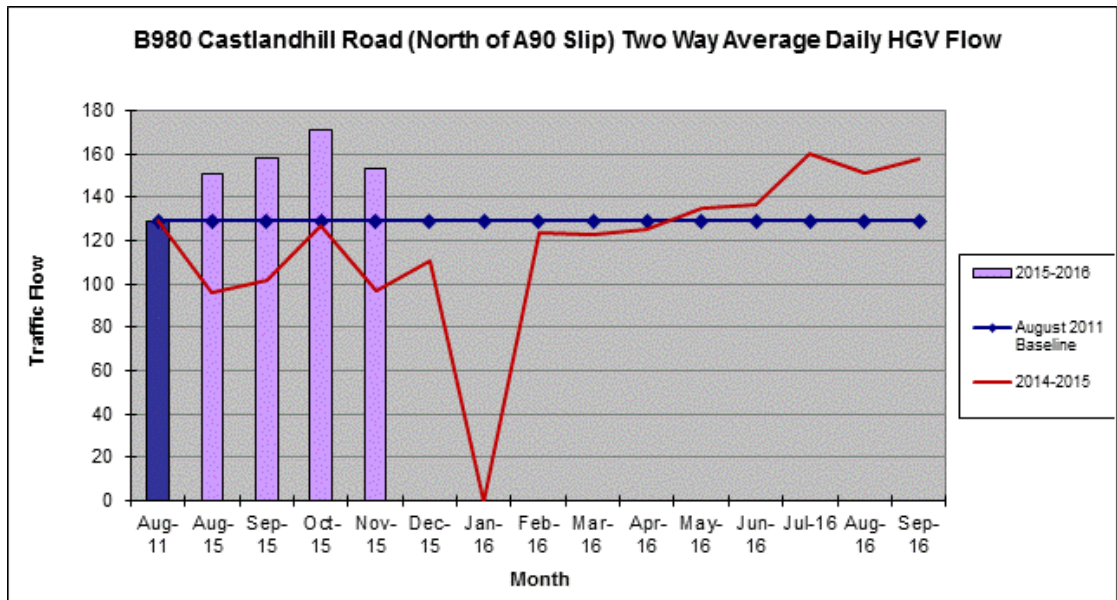
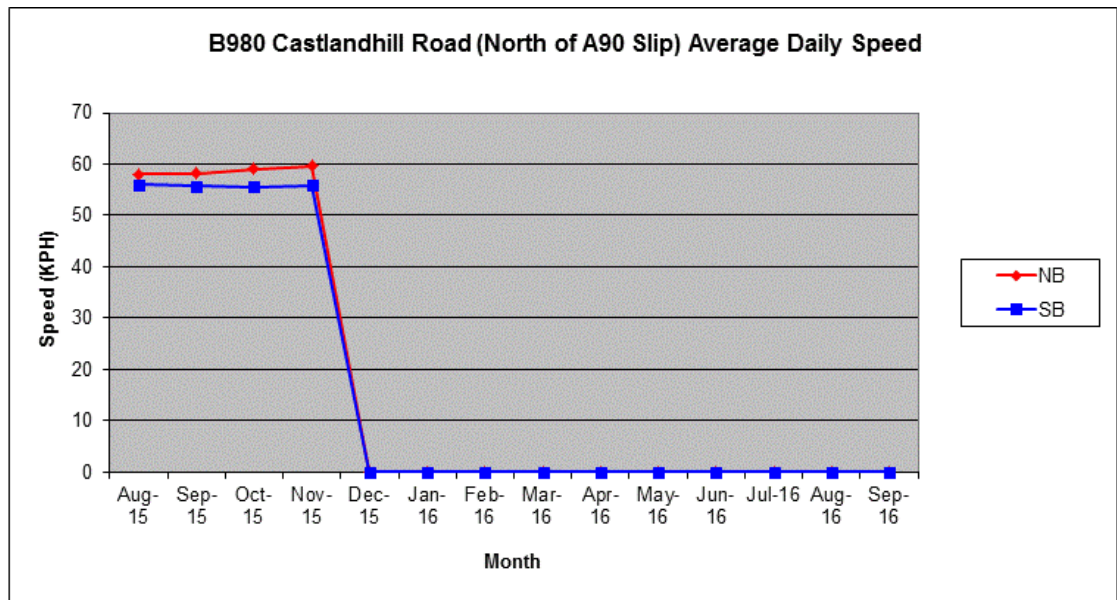


Figure 5-48 Monthly Two Way HGV Traffic Flows on the B980 Castlandhill Road (North of A90 Slip)

### 5.7.4 Monthly Average All Vehicles Traffic Speeds

**Table 5-28 Site: JTC00586 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00586	B980 Castlandhill Road (North of A90 Slip)	Aug-15	58	56
		Sep-15	58	56
		Oct-15	59	56
		Nov-15	60	56
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data



**Figure 5-49 Average Monthly Traffic Speeds (KPH) on the B980 Castlandhill Road (North of A90 Slip)**

## 5.8 Traffic Counter JTC00591 - B981 North Road (East of Masterton)

Summary of statistics between August 2015 and September 2016:

- No data is available for the baseline period, therefore comparisons cannot be made.
- Data has been intermittent throughout the monitoring period, with no data recorded at all in some months, and only a limited number of reliable days recorded in others.

### 5.8.1 Monthly Average Traffic Flows

**Table 5-29 Site: JTC00591 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00591	B981 North Road (East of Masterton)	Aug-11	No Data	No Data	No Data
		Aug-15	3,578	3,802	7,380
		Sep-15	No Data	No Data	No Data
		Oct-15	No Data	No Data	No Data
		Nov-15	No Data	No Data	No Data
		Dec-15	2,888	2,645	5,534
		Jan-16	3,010	3,143	6,153
		Feb-16	No Data	No Data	No Data
		Mar-16	No Data	No Data	No Data
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	3,764	4,004	7,768
		Jul-16	3,183	3,436	6,619
		Aug-16	3,153	3,257	6,410
		Sep-16	3,332	3,538	6,870
	<b>Annual Average</b>	<b>3,285</b>	<b>3,406</b>	<b>6,691</b>	

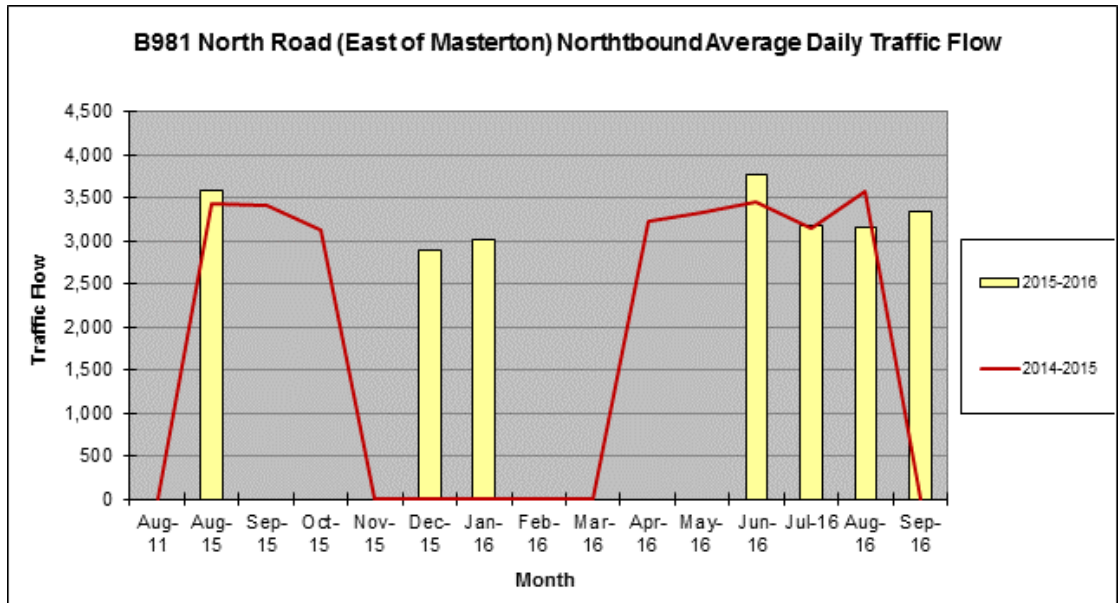


Figure 5-50 Monthly AADTs on the B981 North Road (East of Masterton)

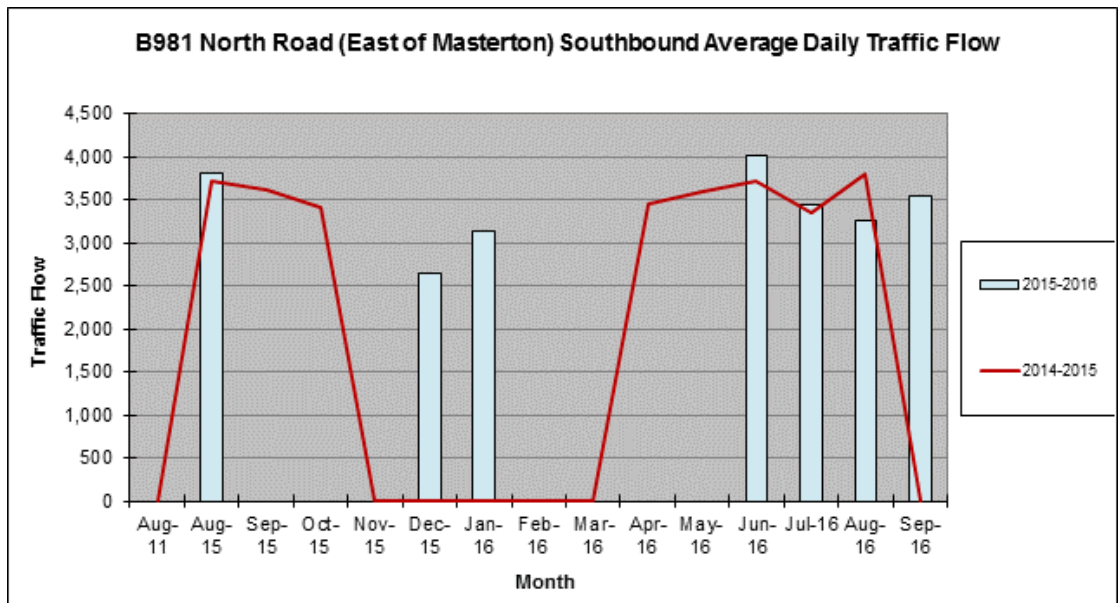


Figure 5-51 Monthly AADTs on the B981 North Road (East of Masterton)

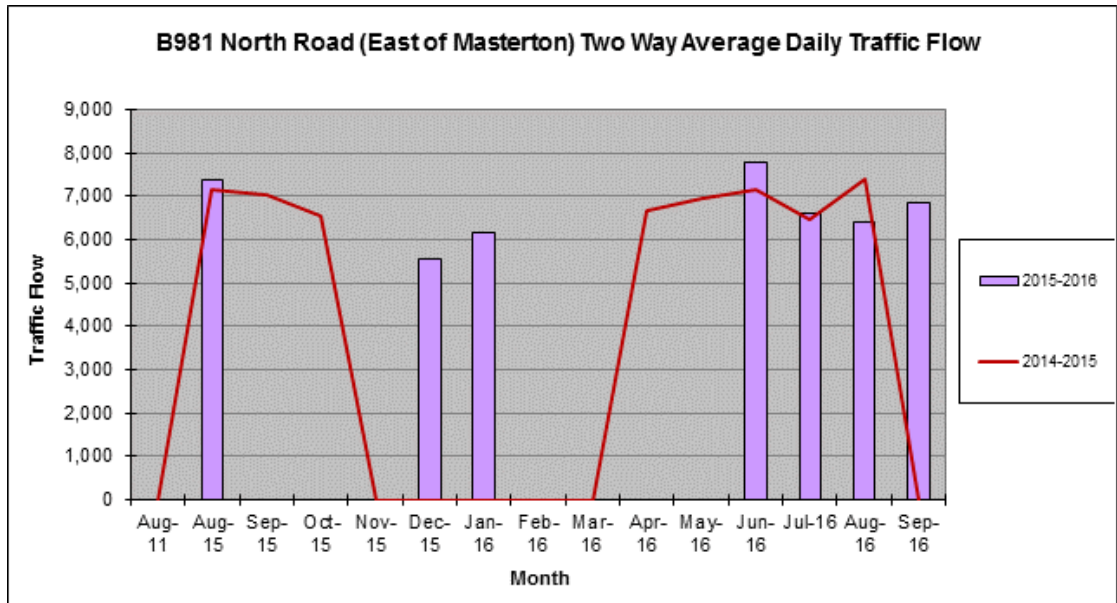


Figure 5-52 Monthly Two Way Daily Traffic Flows on the B981 North Road (East of Masterton)

### 5.8.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-30 Site: JTC00591 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00591	B981 North Road (East of Masterton)	Aug-11	No Data	No Data
		Aug-15	1,369	1,943
		Sep-15	No Data	No Data
		Oct-15	No Data	No Data
		Nov-15	No Data	No Data
		Dec-15	759	1,286
		Jan-16	1,238	1,589
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	1,547	1,912
		Jul-16	1,174	1,649
		Aug-16	1,172	1,658
		Sep-16	1,397	1,767
	<b>Annual Average</b>	<b>1,217</b>	<b>1,676</b>	

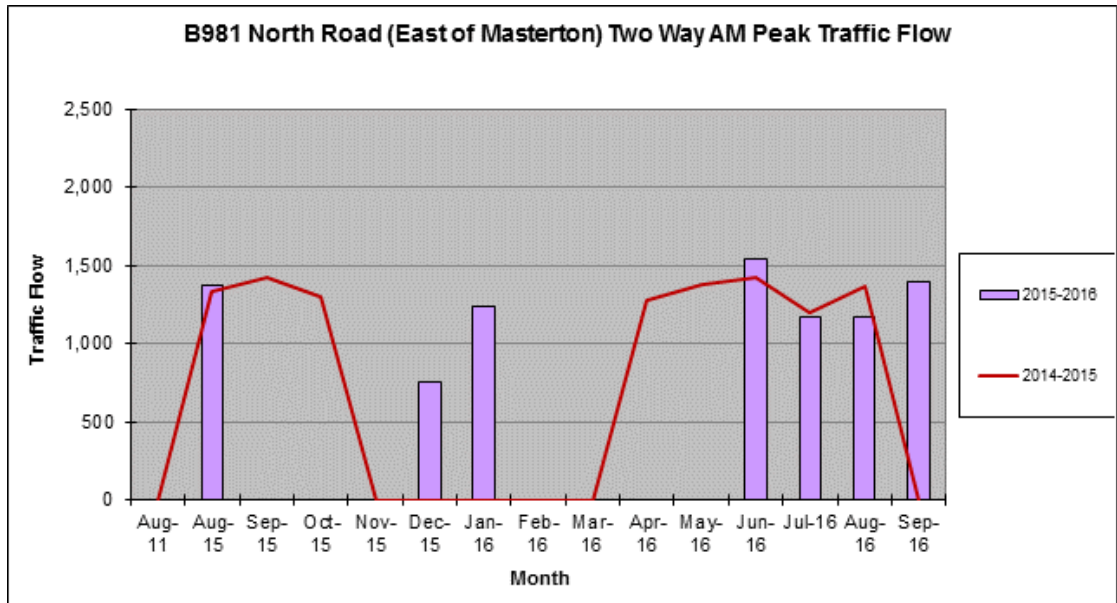


Figure 5-53 Monthly Two Way AM Peak Flows on the B981 North Road (East of Masterton)

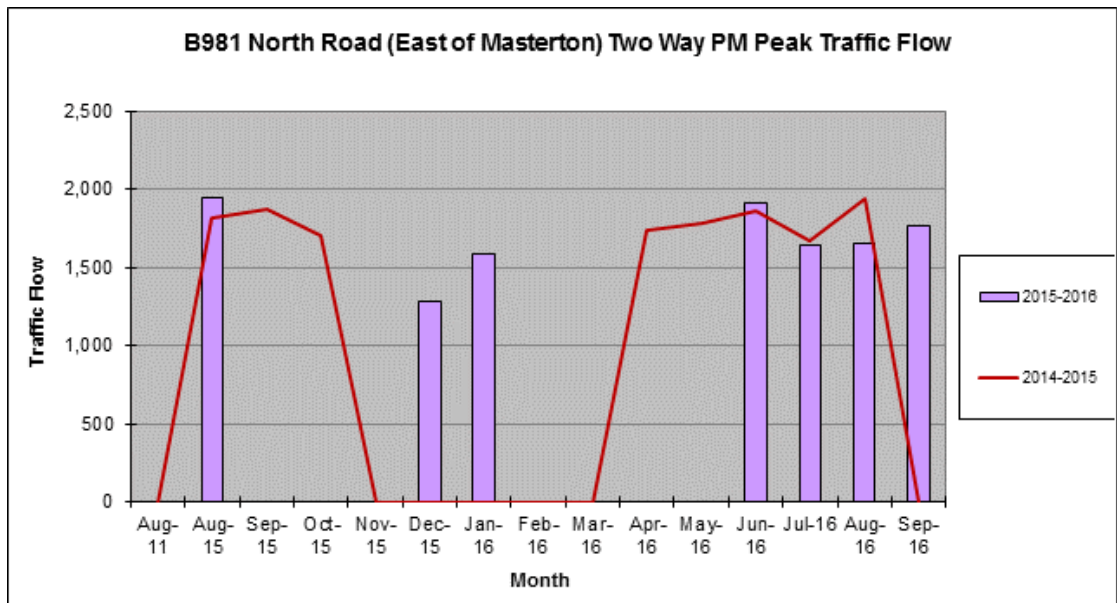


Figure 5-54 Monthly Two Way PM Peak Flows on the B981 North Road (East of Masterton)

### 5.8.3 Monthly Average HGV Flows

Table 5-31 Site: JTC00591 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00591	B981 North Road (East of Masterton)	Aug-11	No Data
		Aug-15	98
		Sep-15	No Data
		Oct-15	No Data
		Nov-15	No Data
		Dec-15	60
		Jan-16	87
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	68
		Jul-16	57
		Aug-16	72
		Sep-16	59
		<b>Annual Average</b>	<b>75</b>

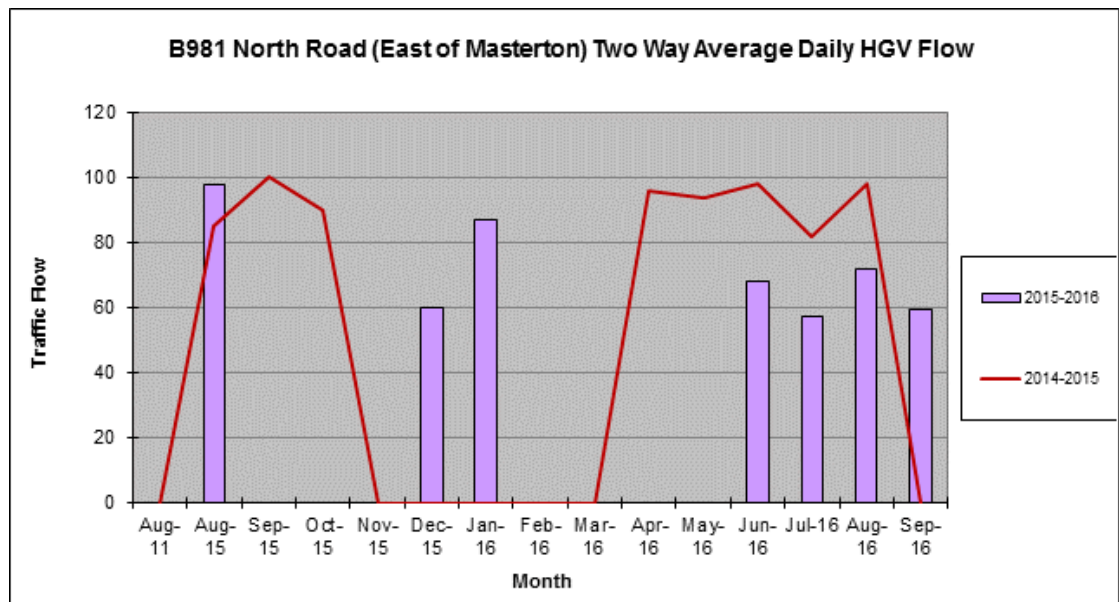


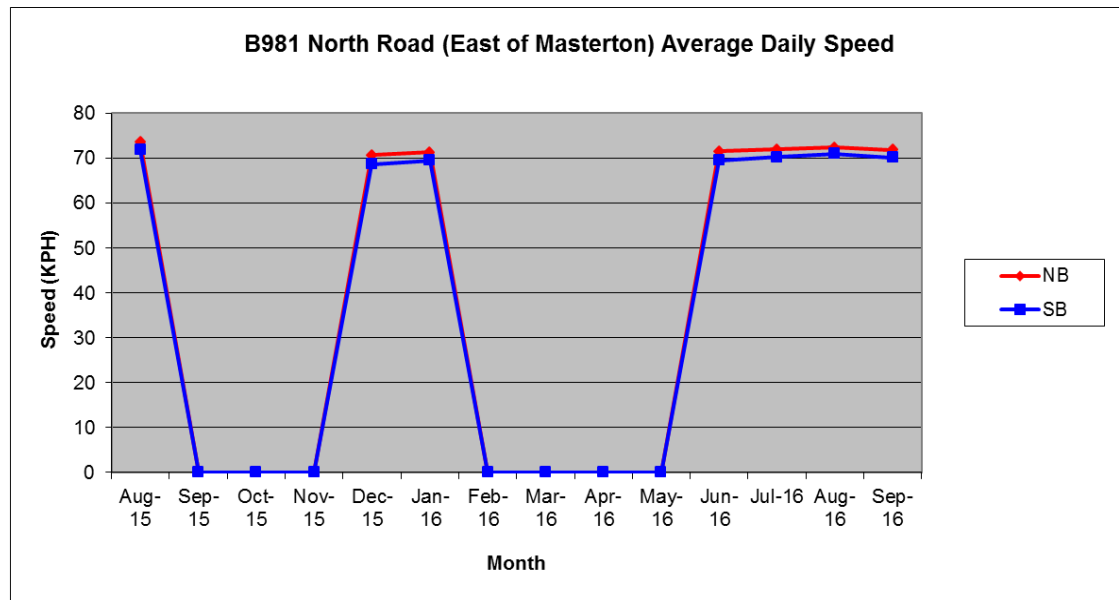
Figure 5-55 Monthly Two Way HGV Traffic Flows on the B981 North Road (East of Masterton)



### 5.8.4 Monthly Average All Vehicles Traffic Speeds

**Table 5-32 Site: JTC00591 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00591	B981 North Road (East of Masterton)	Aug-15	73	72
		Sep-15	No Data	No Data
		Oct-15	No Data	No Data
		Nov-15	No Data	No Data
		Dec-15	71	69
		Jan-16	71	69
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	71	69
		Jul-16	72	70
		Aug-16	72	71
		Sep-16	72	70



**Figure 5-56 Average Monthly Traffic Speeds (KPH) on the B981 North Road (East of Masterton)**

## 5.9 Traffic Counter JTC00592 - B924 Hawes Brae (South Queensferry)

Summary of statistics between August 2015 and September 2016:

- Traffic flows are consistent with the previous monitoring period.
- HGV flows are significantly lower than the 2011 baseline.

### 5.9.1 Monthly Average Traffic Flows

**Table 5-33 Site: JTC00592 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00592	B924 Hawes Brae (South Queensferry)	Aug-11	1,711	1,431	3,142
		Aug-15	1,758	1,381	3,139
		Sep-15	1,673	1,367	3,039
		Oct-15	No Data	No Data	No Data
		Nov-15	1,512	1,179	2,690
		Dec-15	1,356	1,160	2,516
		Jan-16	1,156	928	2,085
		Feb-16	1,395	1,217	2,612
		Mar-16	1,545	1,300	2,845
		Apr-16	1,627	1,342	2,970
		May-16	1,798	1,522	3,319
		Jun-16	1,840	1,516	3,357
		Jul-16	1,746	1,398	3,144
		Aug-16	1,920	1,548	3,468
		Sep-16	1,844	1,502	3,346
		<b>Annual Average</b>	<b>1,582</b>	<b>1,301</b>	<b>2,883</b>

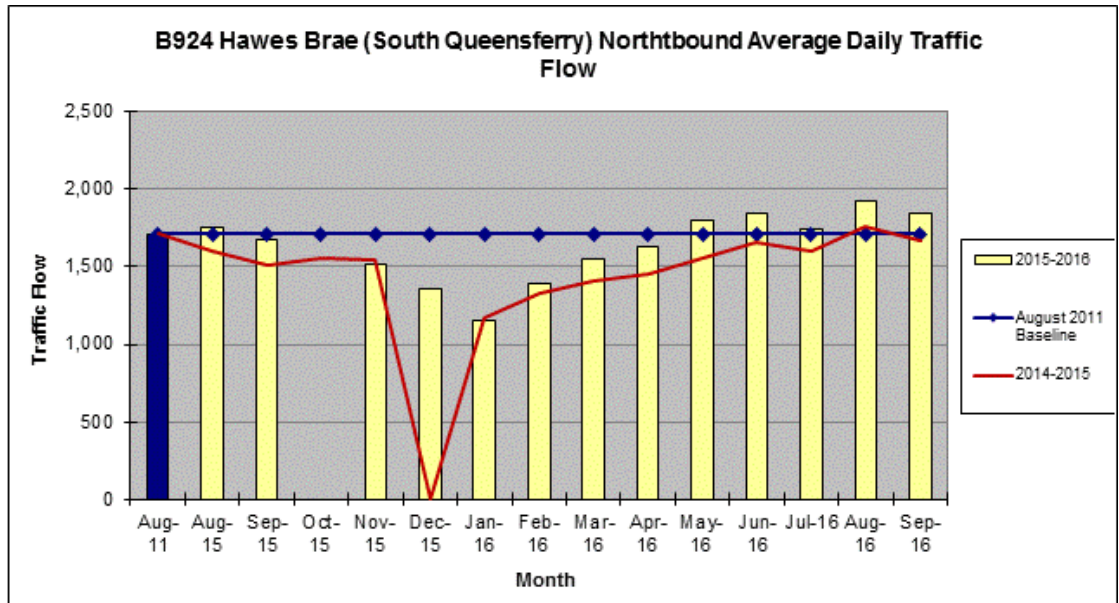


Figure 5-57 Monthly AADTs on the B924 Hawes Brae (South Queensferry)

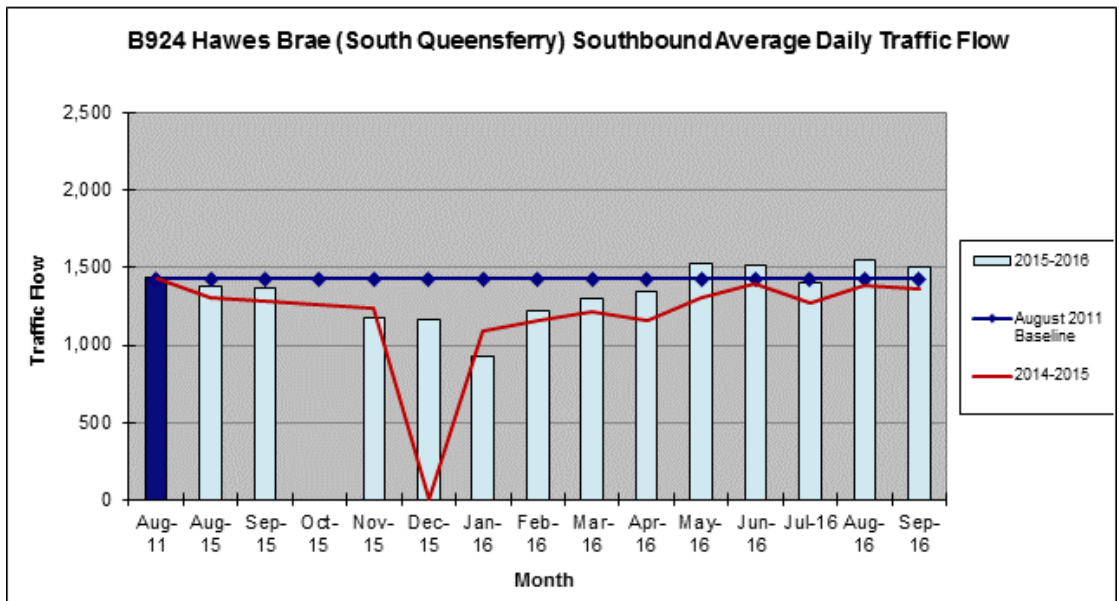


Figure 5-58 Monthly AADTs on the B924 Hawes Brae (South Queensferry)

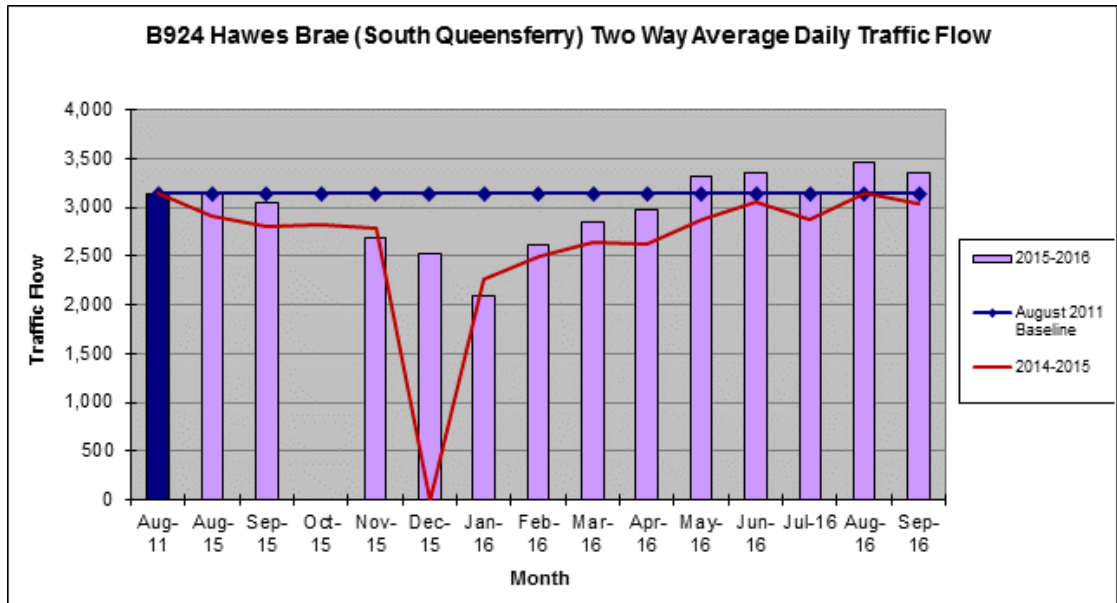


Figure 5-59 Monthly Two Way Daily Traffic Flows on the B924 Hawes Brae (South Queensferry)

### 5.9.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-34 Site: JTC00592 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00592	B924 Hawes Brae (South Queensferry)	Aug-11	467	880
		Aug-15	467	799
		Sep-15	491	743
		Oct-15	No Data	No Data
		Nov-15	533	825
		Dec-15	496	574
		Jan-16	323	528
		Feb-16	493	683
		Mar-16	519	768
		Apr-16	459	706
		May-16	506	804
		Jun-16	529	793
		Jul-16	454	730
		Aug-16	496	870
		Sep-16	491	804
	<b>Annual Average</b>	<b>479</b>	<b>723</b>	

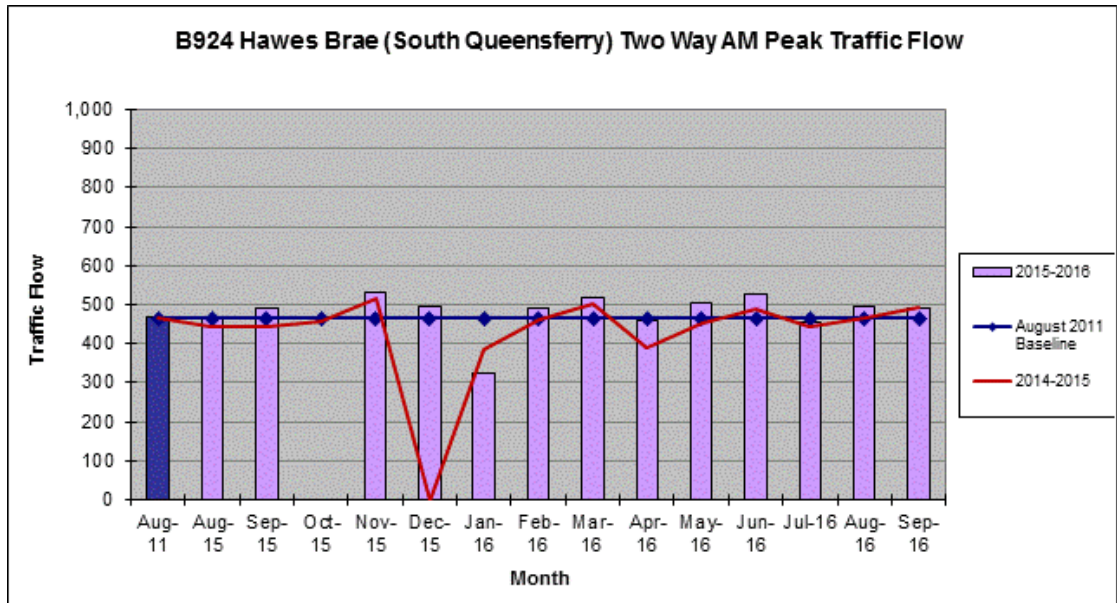


Figure 5-60 Monthly Two Way AM Peak Flows on the B924 Hawes Brae (South Queensferry)

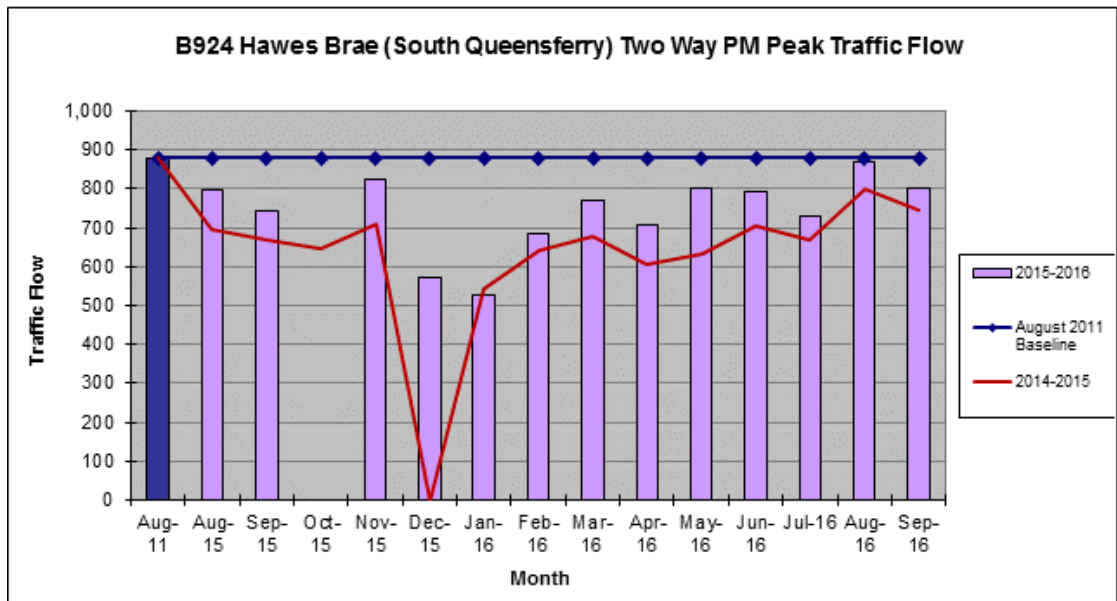


Figure 5-61 Monthly Two Way PM Peak Flows on the B924 Hawes Brae (South Queensferry)

### 5.9.3 Monthly Average HGV Flows

Table 5-35 Site: JTC00592 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00592	B924 Hawes Brae (South Queensferry)	Aug-11	48
		Aug-15	27
		Sep-15	25
		Oct-15	No Data
		Nov-15	2
		Dec-15	3
		Jan-16	2
		Feb-16	2
		Mar-16	4
		Apr-16	9
		May-16	22
		Jun-16	23
		Jul-16	29
		Aug-16	28
		Sep-16	18
		<b>Annual Average</b>	<b>13</b>

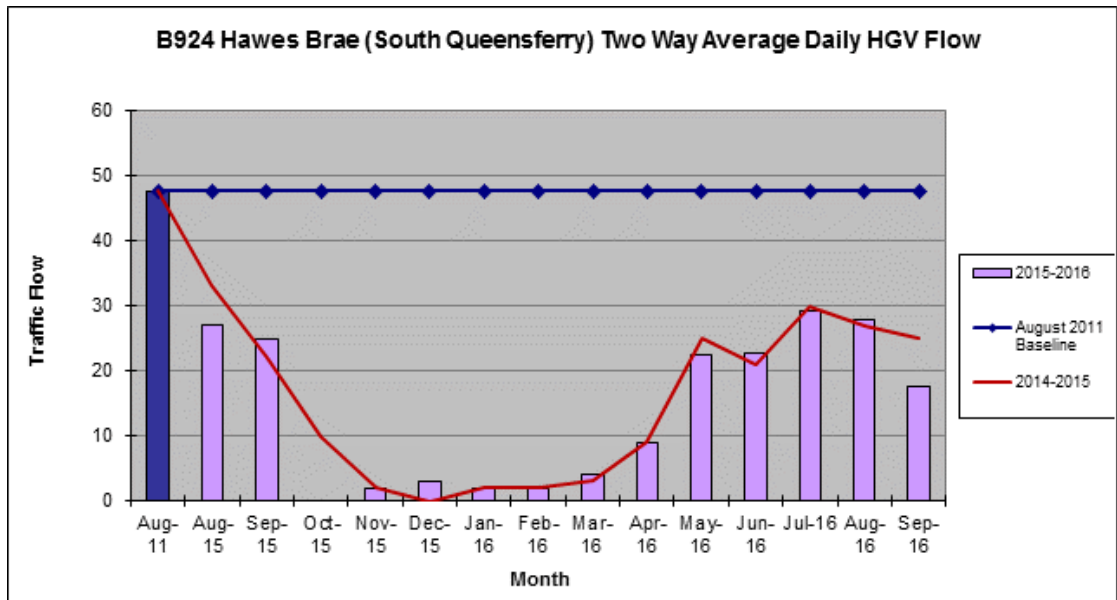
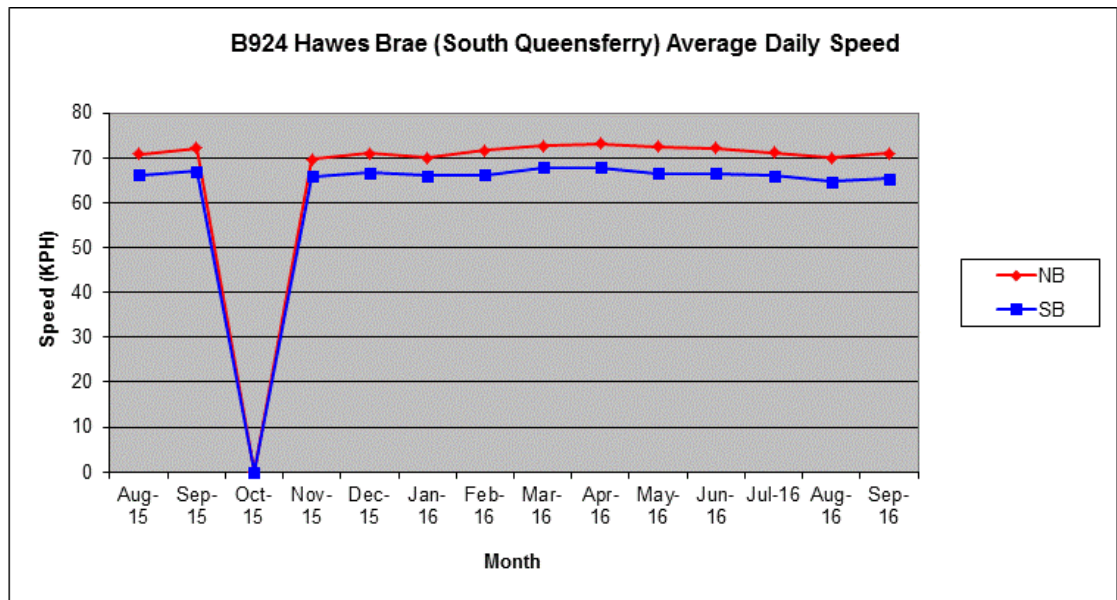


Figure 5-62 Monthly Two Way HGV Traffic Flows on the B924 Hawes Brae (South Queensferry)

### 5.9.4 Monthly Average All Vehicles Traffic Speeds

**Table 5-36 Site: JTC00592 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00592	B924 Hawes Brae (South Queensferry)	Aug-15	71	66
		Sep-15	72	67
		Oct-15	No Data	No Data
		Nov-15	70	66
		Dec-15	71	67
		Jan-16	70	66
		Feb-16	72	66
		Mar-16	73	68
		Apr-16	73	68
		May-16	73	67
		Jun-16	72	67
		Jul-16	71	66
		Aug-16	70	65
		Sep-16	71	65



**Figure 5-63 Average Monthly Traffic Speeds (KPH) on the B924 Hawes Brae (South Queensferry)**

## 5.10 Traffic Counter JTC00594 - B981 Hope Street (Inverkeithing)

Summary of statistics between August 2015 and September 2016:

- Traffic flows are higher than those recorded in the previous monitoring period and the 2011 baseline.
- Counter changed from Euro6 vehicle classification system to CA10 classification system in April 2016, due to the NTDS system update (see section 2.3).

### 5.10.1 Monthly Average Traffic Flows

**Table 5-37 Site: JTC00594 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00594	B981 Hope Street (Inverkeithing)	Aug-11	2,477	2,393	4,870
		Aug-15	3,387	3,074	6,461
		Sep-15	3,167	2,961	6,127
		Oct-15	3,082	2,735	5,816
		Nov-15	3,198	2,786	5,984
		Dec-15	2,357	2,075	4,431
		Jan-16	2,528	2,382	4,910
		Feb-16	2,890	2,760	5,650
		Mar-16	2,395	3,082	5,477
		Apr-16	2,296	3,513	5,810
		May-16	3,405	3,800	7,206
		Jun-16	3,384	3,791	7,174
		Jul-16	3,030	3,242	6,271
		Aug-16	3,160	3,512	6,672
		Sep-16	2,981	3,425	6,405
	<b>Annual Average</b>	<b>2,927</b>	<b>3,017</b>	<b>5,943</b>	



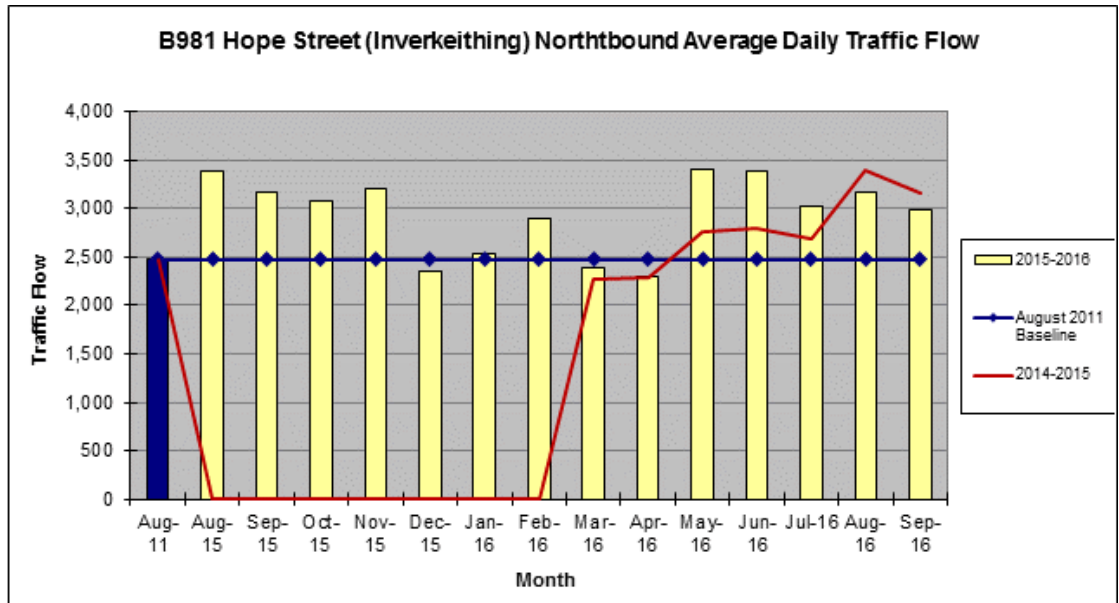


Figure 5-64 Monthly AADTs on the B981 Hope Street (Inverkeithing)

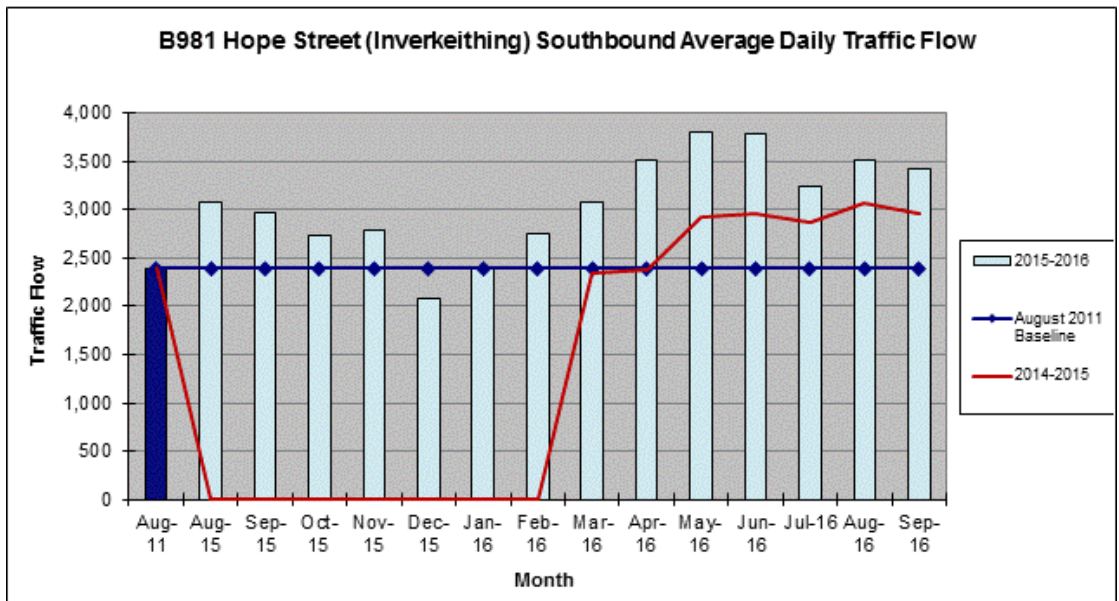


Figure 5-65 Monthly AADTs on the B981 Hope Street (Inverkeithing)

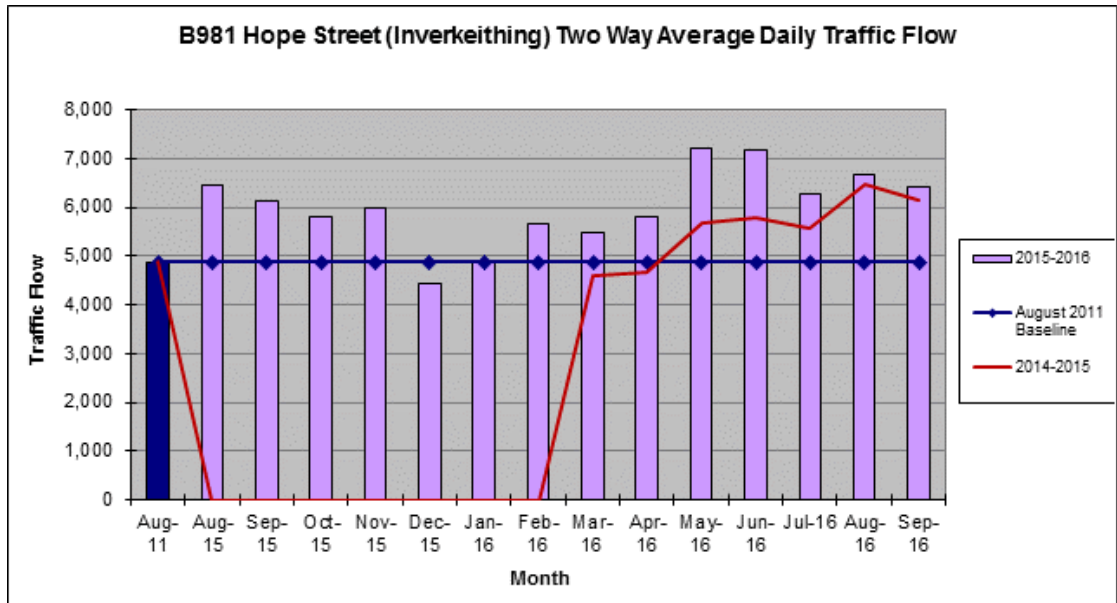


Figure 5-66 Monthly Two Way Daily Traffic Flows on the B981 Hope Street (Inverkeithing)

### 5.10.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-38 Site: JTC00594 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00594	B981 Hope Street (Inverkeithing)	Aug-11	994	1,200
		Aug-15	1,015	1,597
		Sep-15	1,031	1,554
		Oct-15	922	1,456
		Nov-15	983	1,537
		Dec-15	659	1,025
		Jan-16	745	1,193
		Feb-16	937	1,367
		Mar-16	974	1,246
		Apr-16	1,078	1,278
		May-16	1,200	1,688
		Jun-16	1,259	1,662
		Jul-16	994	1,440
		Aug-16	1,142	1,575
		Sep-16	1,153	1,510
	<b>Annual Average</b>	<b>983</b>	<b>1,420</b>	

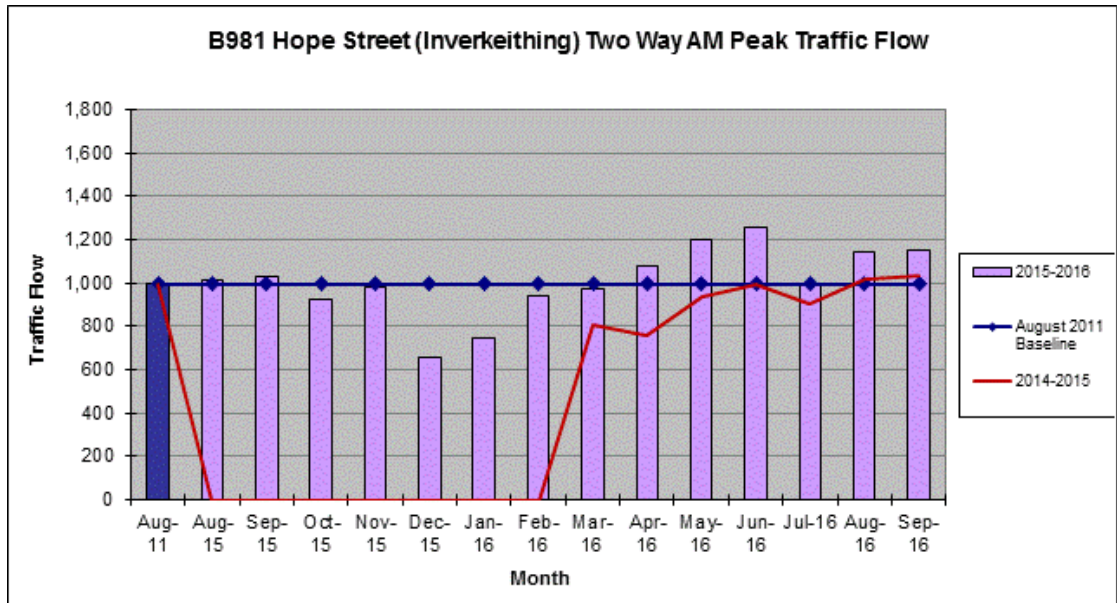


Figure 5-67 Monthly Two Way AM Peak Flows on the B981 Hope Street (Inverkeithing)

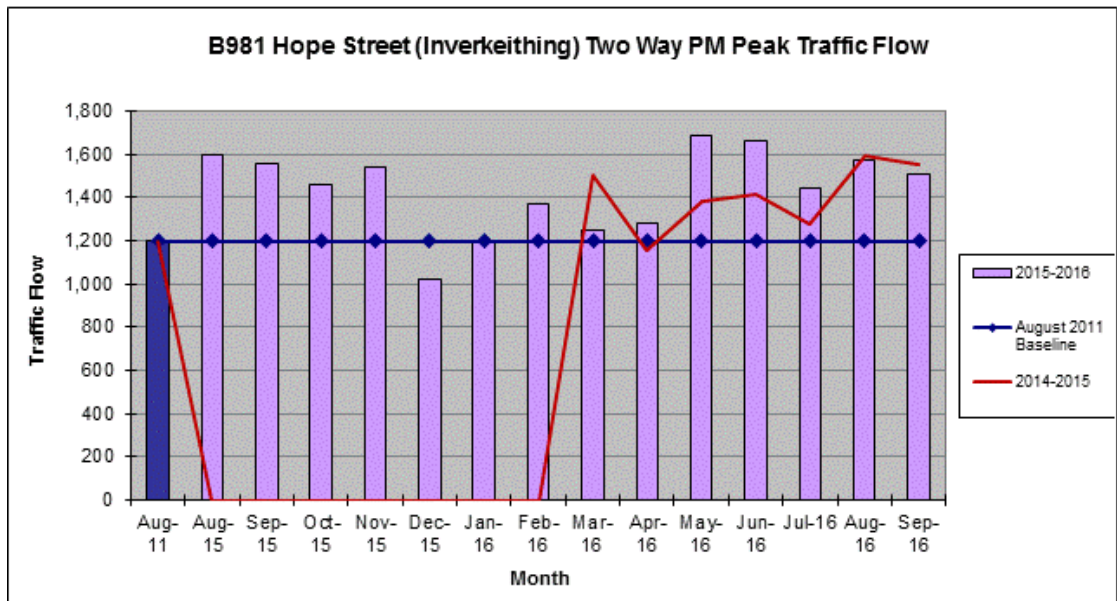


Figure 5-68 Monthly Two Way PM Peak Flows on the B981 Hope Street (Inverkeithing)

### 5.10.3 Monthly Average HGV Flows

Table 5-39 Site: JTC00594 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00594	B981 Hope Street (Inverkeithing)	Aug-11	119
		Aug-15	215
		Sep-15	195
		Oct-15	182
		Nov-15	201
		Dec-15	242
		Jan-16	216
		Feb-16	238
		Mar-16	212
		Apr-16	231
		May-16	259
		Jun-16	263
		Jul-16	239
		Aug-16	180
		Sep-16	113
		<b>Annual Average</b>	<b>224</b>

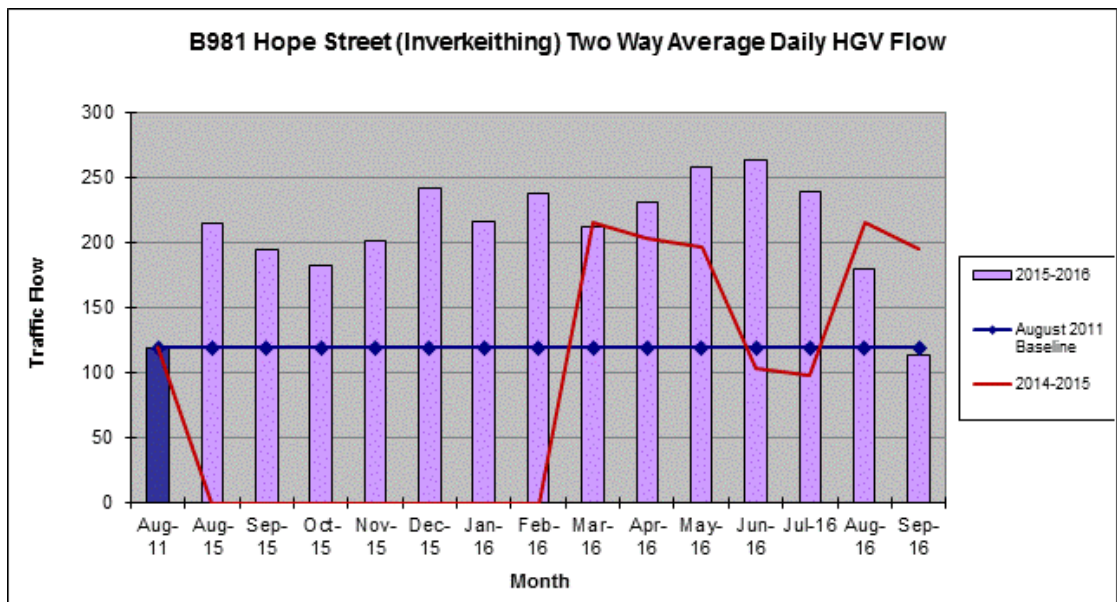
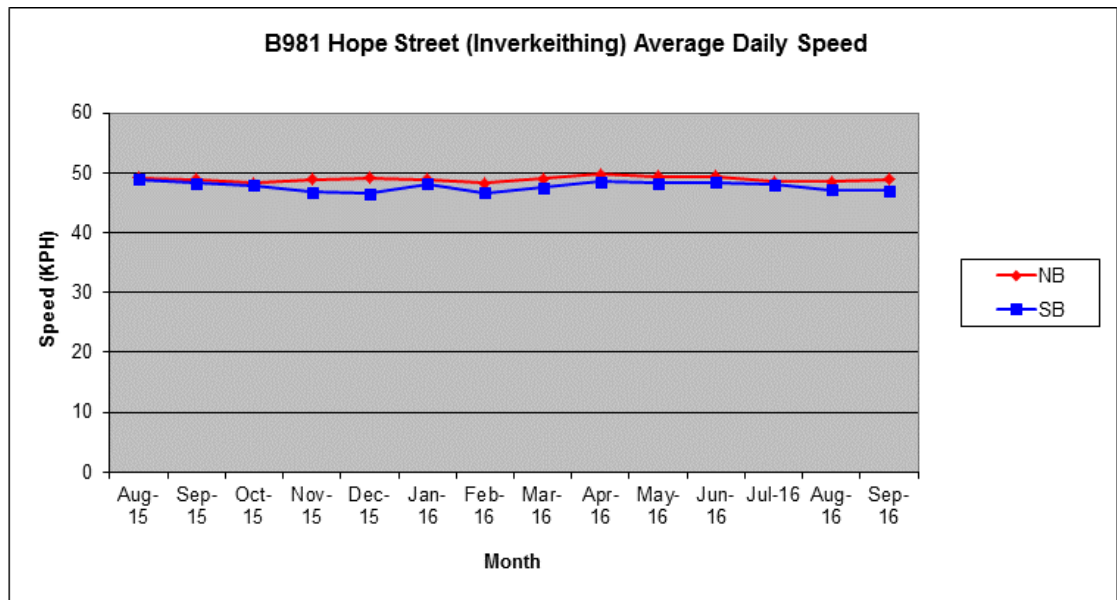


Figure 5-69 Monthly Two Way HGV Traffic Flows on the B981 Hope Street (Inverkeithing)

**5.10.4 Monthly Average All Vehicles Traffic Speeds**

**Table 5-40 Site: JTC00594 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00594	B981 Hope Street (Inverkeithing)	Aug-15	49	49
		Sep-15	49	48
		Oct-15	48	48
		Nov-15	49	47
		Dec-15	49	47
		Jan-16	49	48
		Feb-16	48	47
		Mar-16	49	48
		Apr-16	50	48
		May-16	49	48
		Jun-16	49	48
		Jul-16	48	48
		Aug-16	48	47
		Sep-16	49	47



**Figure 5-70 Average Monthly Traffic Speeds (KPH) on the B981 Hope Street (Inverkeithing)**

## 5.11 Traffic Counter JTC00595 - B981 North Queensferry

Summary of statistics between August 2015 and September 2016:

- Traffic flows are consistent with the previous monitoring period.
- Traffic flows are lower than the 2011 baseline.

### 5.11.1 Monthly Average Traffic Flows

**Table 5-41 Site: JTC00595 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00595	B981 North Queensferry	Aug-11	1,381	1,349	2,730
		Aug-15	1,066	1,025	2,091
		Sep-15	962	934	1,896
		Oct-15	945	928	1,872
		Nov-15	805	773	1,578
		Dec-15	656	630	1,286
		Jan-16	728	716	1,444
		Feb-16	907	887	1,794
		Mar-16	943	945	1,888
		Apr-16	974	986	1,960
		May-16	959	933	1,892
		Jun-16	909	875	1,783
		Jul-16	998	961	1,959
		Aug-16	1,055	1,040	2,096
		Sep-16	913	883	1,796
		<b>Annual Average</b>	<b>904</b>	<b>883</b>	<b>1,787</b>

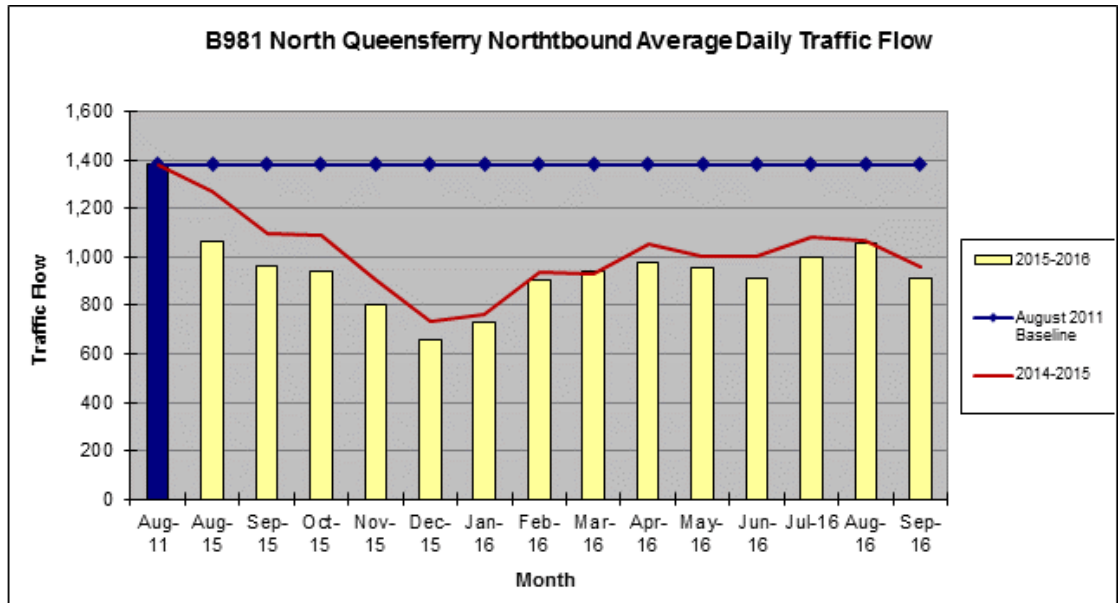


Figure 5-71 Monthly AADTs on the B981 North Queensferry

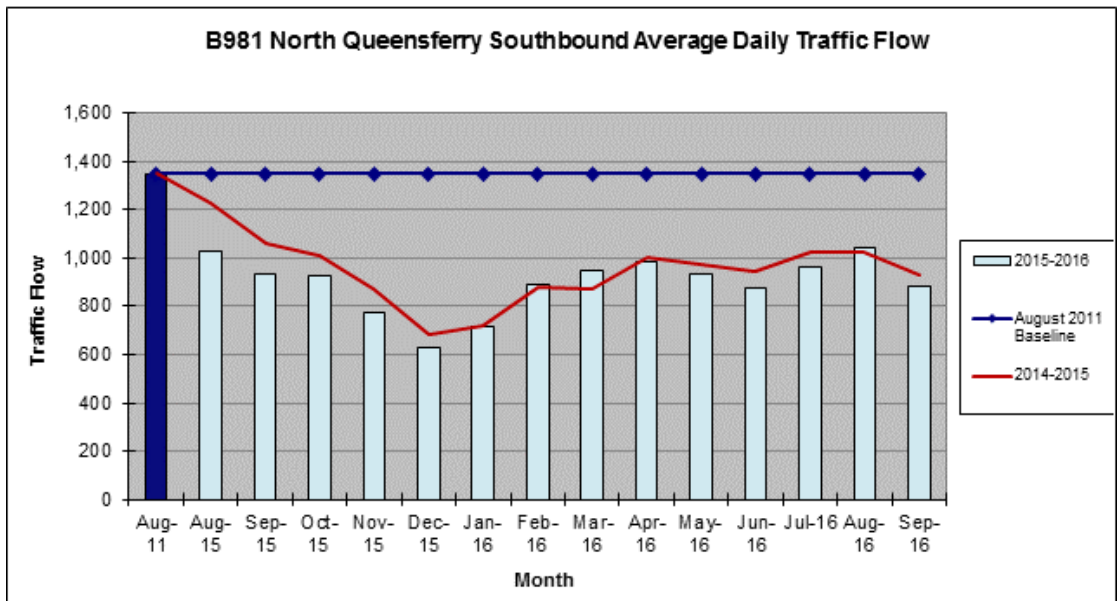


Figure 5-72 Monthly AADTs on the B981 North Queensferry

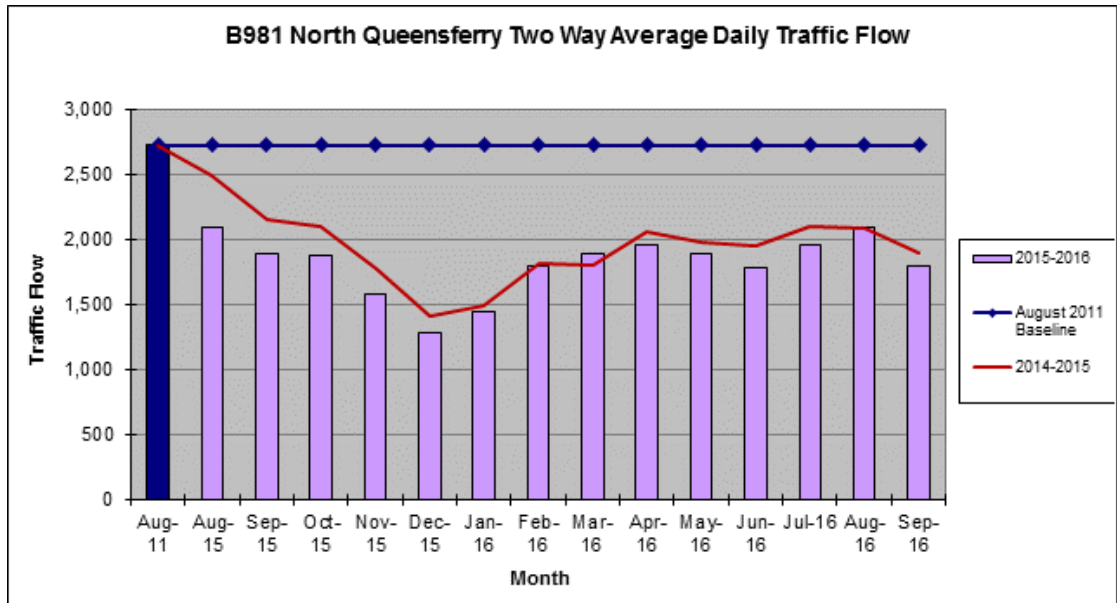


Figure 5-73 Monthly Two Way Daily Traffic Flows on the B981 North Queensferry

### 5.11.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-42 Site: JTC00595 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00595	B981 North Queensferry	Aug-11	334	543
		Aug-15	240	396
		Sep-15	263	385
		Oct-15	239	345
		Nov-15	212	346
		Dec-15	157	268
		Jan-16	159	328
		Feb-16	206	403
		Mar-16	206	414
		Apr-16	242	361
		May-16	249	365
		Jun-16	248	337
		Jul-16	231	351
		Aug-16	267	390
		Sep-16	261	336
	<b>Annual Average</b>	<b>221</b>	<b>358</b>	



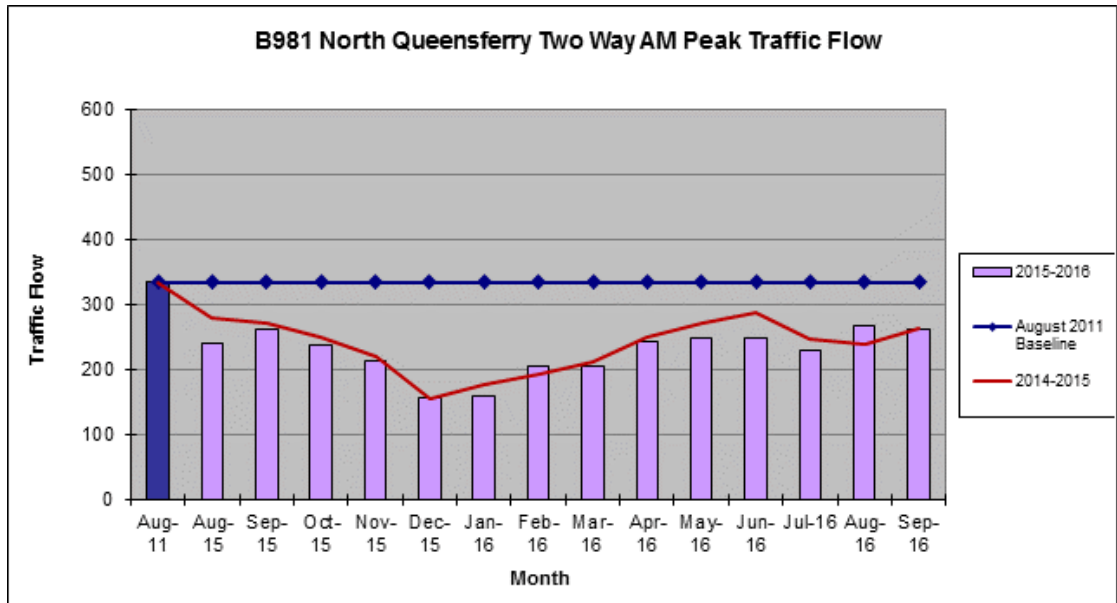


Figure 5-74 Monthly Two Way AM Peak Flows on the B981 North Queensferry

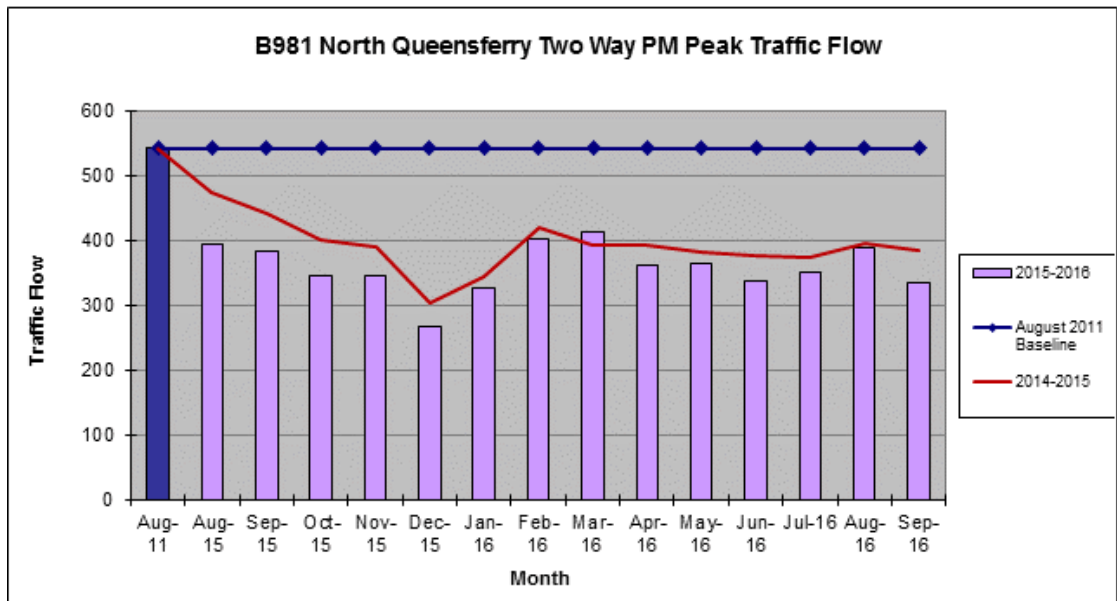


Figure 5-75 Monthly Two Way PM Peak Flows on the B981 North Queensferry

### 5.11.3 Monthly Average HGV Flows

Table 5-43 Site: JTC00595 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00595	B981 North Queensferry	Aug-11	30
		Aug-15	32
		Sep-15	36
		Oct-15	30
		Nov-15	32
		Dec-15	28
		Jan-16	28
		Feb-16	30
		Mar-16	31
		Apr-16	26
		May-16	28
		Jun-16	27
		Jul-16	30
		Aug-16	27
		Sep-16	30
		<b>Annual Average</b>	<b>30</b>

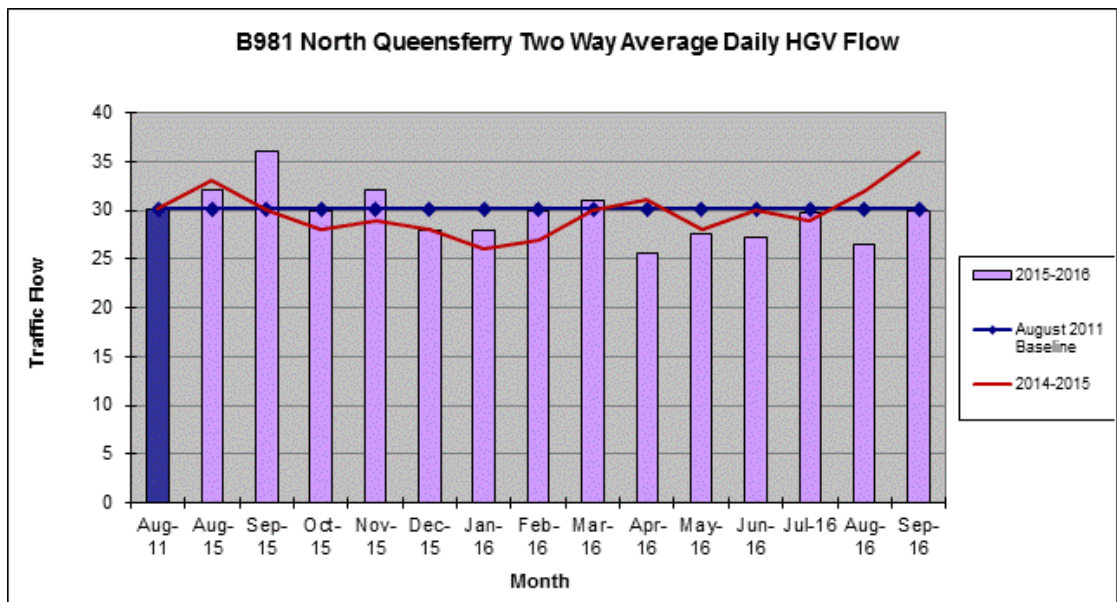


Figure 5-76 Monthly Two Way HGV Traffic Flows on the B981 North Queensferry

5.11.4 Monthly Average All Vehicles Traffic Speeds

Table 5-44 Site: JTC00595 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016

Counter	Location	Date	NB	SB
JTC00595	B981 North Queensferry	Aug-15	42	41
		Sep-15	41	41
		Oct-15	40	40
		Nov-15	41	40
		Dec-15	40	40
		Jan-16	43	41
		Feb-16	41	40
		Mar-16	42	40
		Apr-16	42	41
		May-16	41	40
		Jun-16	42	41
		Jul-16	41	40
		Aug-16	41	40
		Sep-16	41	40

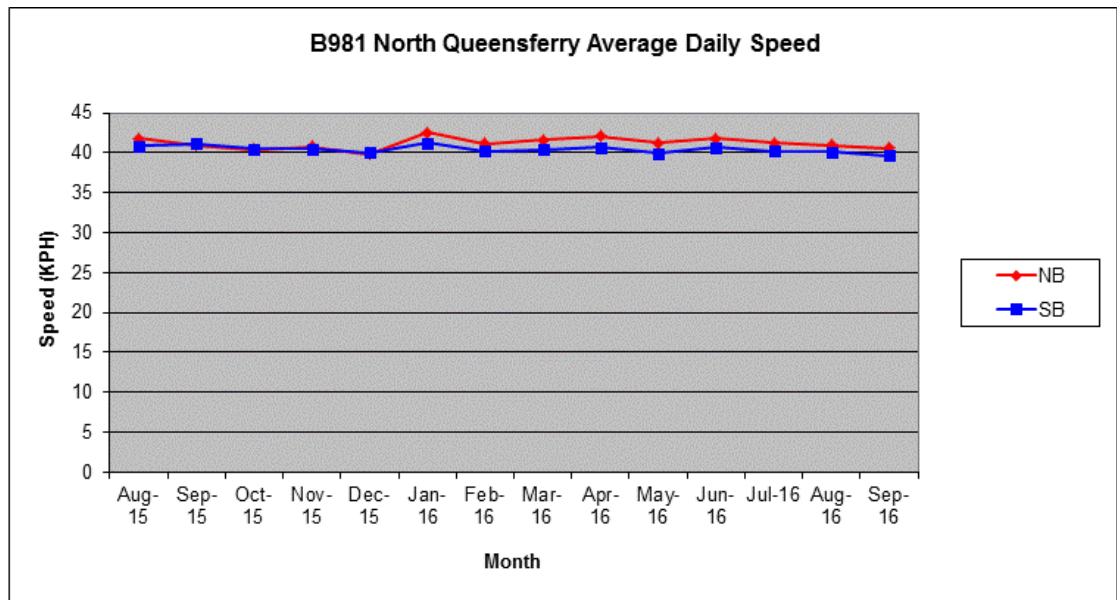


Figure 5-77 Average Monthly Traffic Speeds (KPH) on the B981 North Queensferry

## 5.12 Traffic Counter JTC00599 - B8046 Old Philpstoun

Summary of statistics between August 2015 and September 2016:

- Traffic flows are comparable with the previous monitoring period.
- Traffic flows are lower than the 2011 baseline

### 5.12.1 Monthly Average Traffic Flows

**Table 5-45 Site: JTC00599 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00599	B8046 Old Philpstoun	Aug-11	4,290	4,659	8,949
		Aug-15	3,676	3,789	7,465
		Sep-15	3,564	3,716	7,279
		Oct-15	3,472	3,614	7,086
		Nov-15	3,392	3,499	6,892
		Dec-15	3,286	3,568	6,854
		Jan-16	No Data	No Data	No Data
		Feb-16	3,466	3,636	7,102
		Mar-16	3,669	3,775	7,444
		Apr-16	3,701	3,761	7,462
		May-16	3,812	3,957	7,768
		Jun-16	3,995	3,889	7,884
		Jul-16	3,645	3,730	7,374
		Aug-16	3,926	3,950	7,876
		Sep-16	3,775	3,831	7,606
		<b>Annual Average</b>	<b>3,607</b>	<b>3,721</b>	<b>7,328</b>

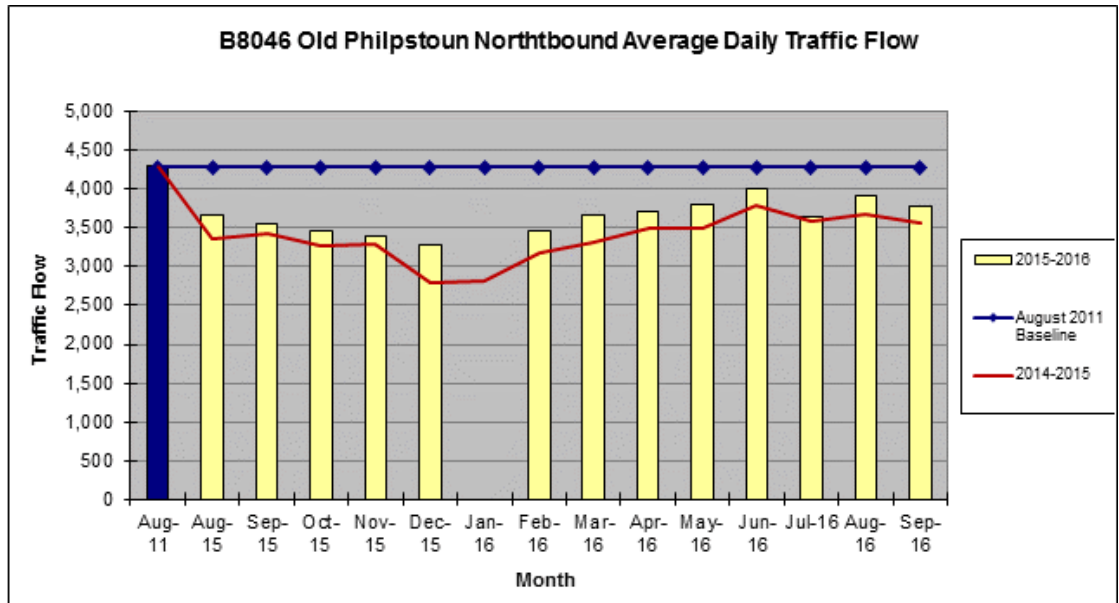


Figure 5-78 Monthly AADTs on the B8046 Old Philpstoun

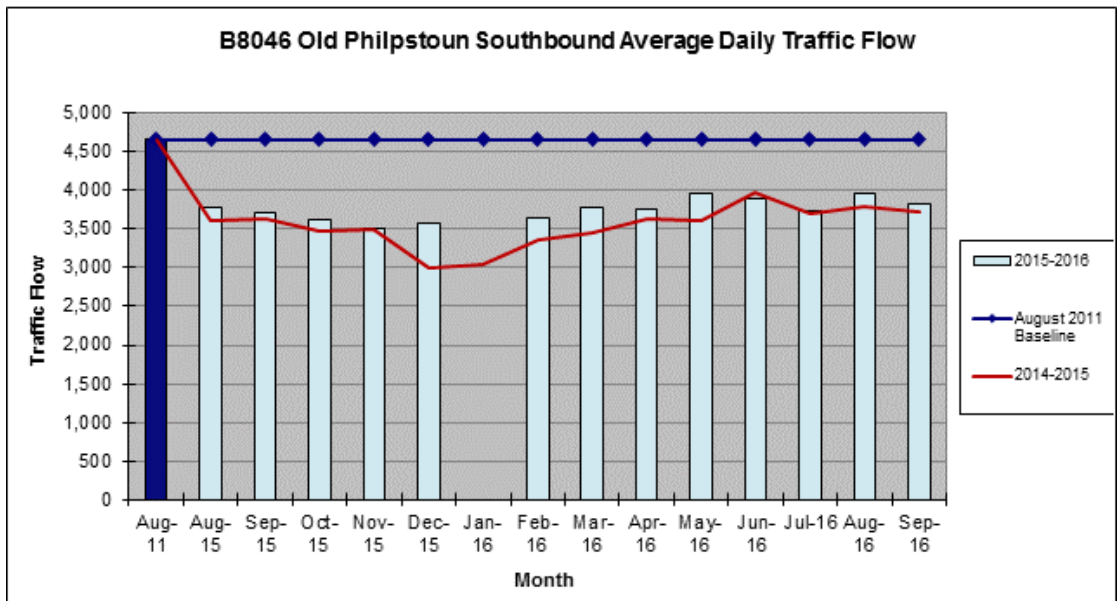


Figure 5-79 Monthly AADTs on the B8046 Old Philpstoun

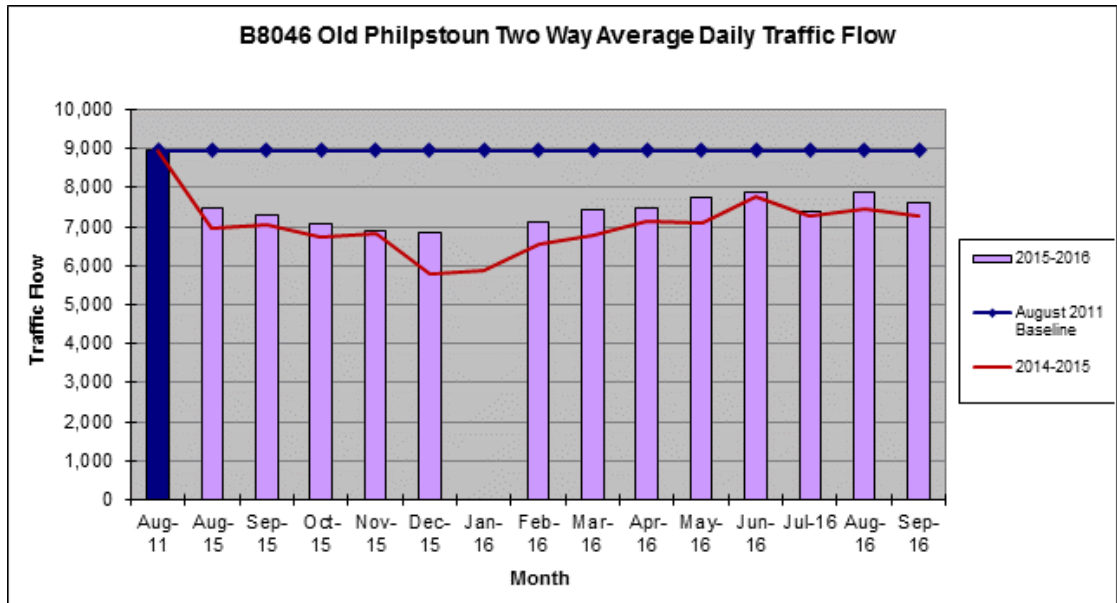


Figure 5-80 Monthly Two Way Daily Traffic Flows on the B8046 Old Philpstoun

### 5.12.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-46 Site: JTC00599 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00599	B8046 Old Philpstoun	Aug-11	1,787	2,285
		Aug-15	1,453	1,932
		Sep-15	1,525	1,971
		Oct-15	1,546	1,883
		Nov-15	1,447	1,834
		Dec-15	1,451	1,653
		Jan-16	No Data	No Data
		Feb-16	1,588	1,854
		Mar-16	1,553	1,912
		Apr-16	1,310	1,471
		May-16	1,322	1,562
		Jun-16	1,421	1,551
		Jul-16	1,200	1,483
		Aug-16	1,358	1,580
		Sep-16	1,346	1,477
	<b>Annual Average</b>	<b>1,438</b>	<b>1,737</b>	

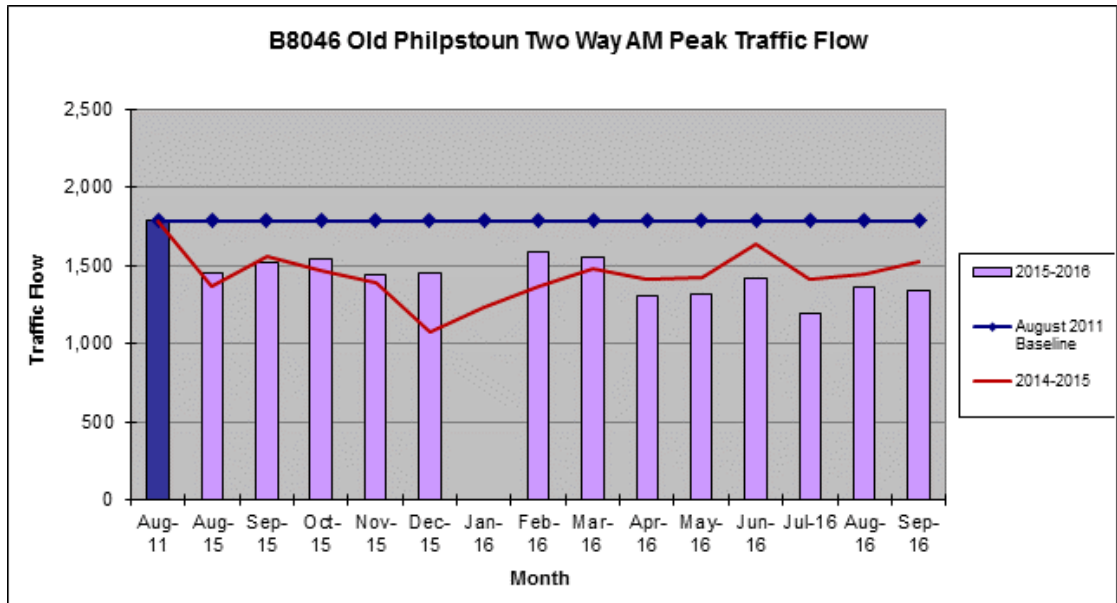


Figure 5-81 Monthly Two Way AM Peak Flows on the B8046 Old Philpstoun

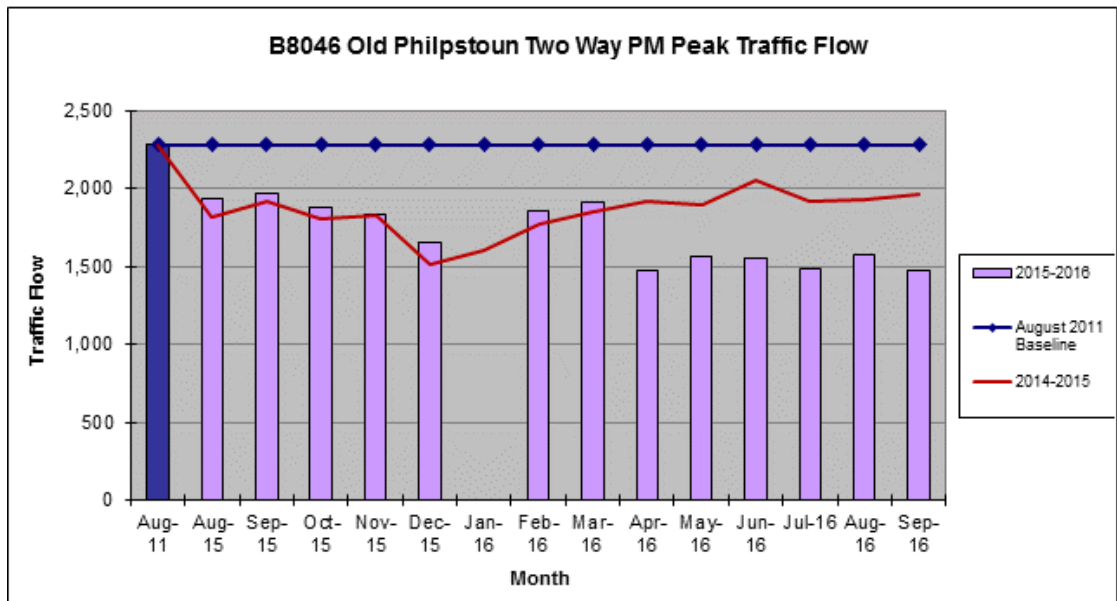


Figure 5-82 Monthly Two Way PM Peak Flows on the B8046 Old Philpstoun

### 5.12.3 Monthly Average HGV Flows

Table 5-47 Site: JTC00599 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00599	B8046 Old Philipstoun	Aug-11	358
		Aug-15	102
		Sep-15	99
		Oct-15	108
		Nov-15	100
		Dec-15	93
		Jan-16	No Data
		Feb-16	82
		Mar-16	101
		Apr-16	103
		May-16	110
		Jun-16	113
		Jul-16	100
		Aug-16	118
		Sep-16	112

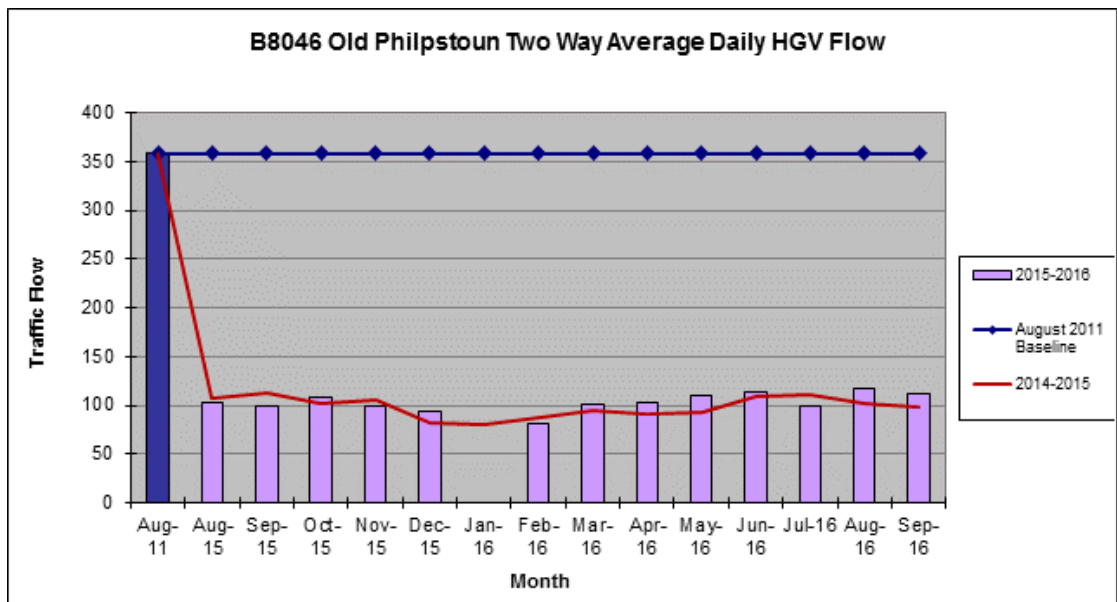


Figure 5-83 Monthly Two Way HGV Traffic Flows on the B8046 Old Philipstoun



5.12.4 Monthly Average All Vehicles Traffic Speeds

Table 5-48 Site: JTC00599 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016

Counter	Location	Date	NB	SB
JTC00599	B8046 Old Philpstoun	Aug-15	43	54
		Sep-15	43	55
		Oct-15	43	54
		Nov-15	43	53
		Dec-15	43	52
		Jan-16	No Data	No Data
		Feb-16	42	53
		Mar-16	43	54
		Apr-16	43	54
		May-16	43	54
		Jun-16	43	53
		Jul-16	43	54
		Aug-16	42	54
		Sep-16	42	54

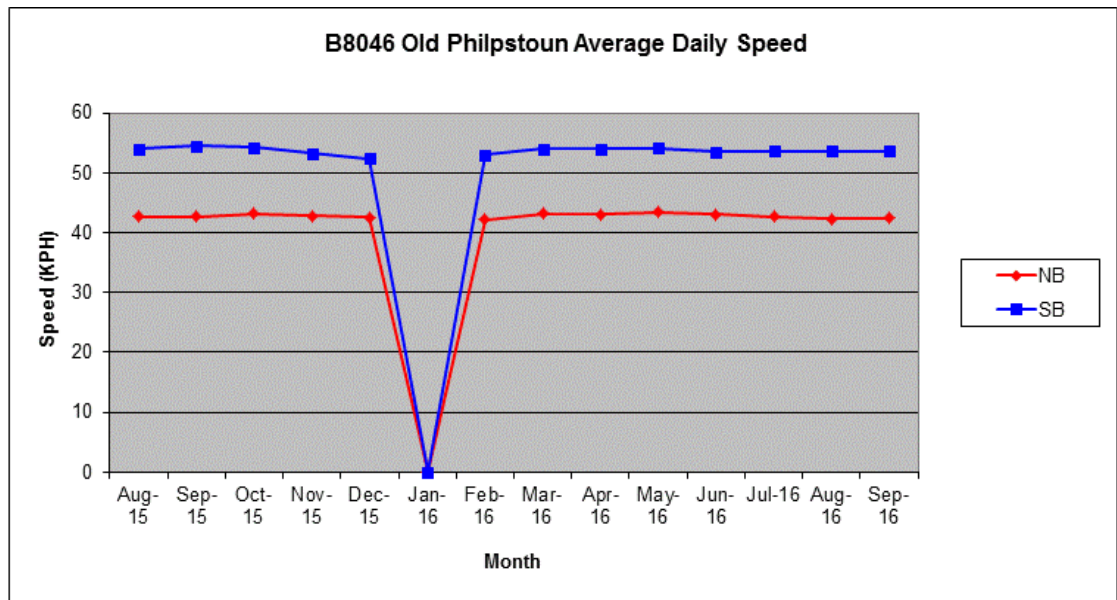


Figure 5-84 Average Monthly Traffic Speeds (KPH) on the B8046 Old Philpstoun

### 5.13 Traffic Counter JTC00600 - B8020 South of A904 Junction

Summary of statistics between August 2015 and September 2016:

- This counter has been experiencing intermittent problems, recording unreliable data for some months.

#### 5.13.1 Monthly Average Traffic Flows

**Table 5-49 Site: JTC00600 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00600	B8020 South of A904 Junction	Aug-11	473	566	1,039
		Aug-15	664	738	1,402
		Sep-15	616	715	1,331
		Oct-15	618	701	1,319
		Nov-15	No Data	No Data	No Data
		Dec-15	No Data	No Data	No Data
		Jan-16	No Data	No Data	No Data
		Feb-16	612	693	1,304
		Mar-16	622	712	1,334
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	No Data	No Data	No Data
		Jul-16	871	691	1,562
		Aug-16	808	718	1,526
		Sep-16	No Data	No Data	No Data
		<b>Annual Average</b>	<b>667</b>	<b>708</b>	<b>1,375</b>

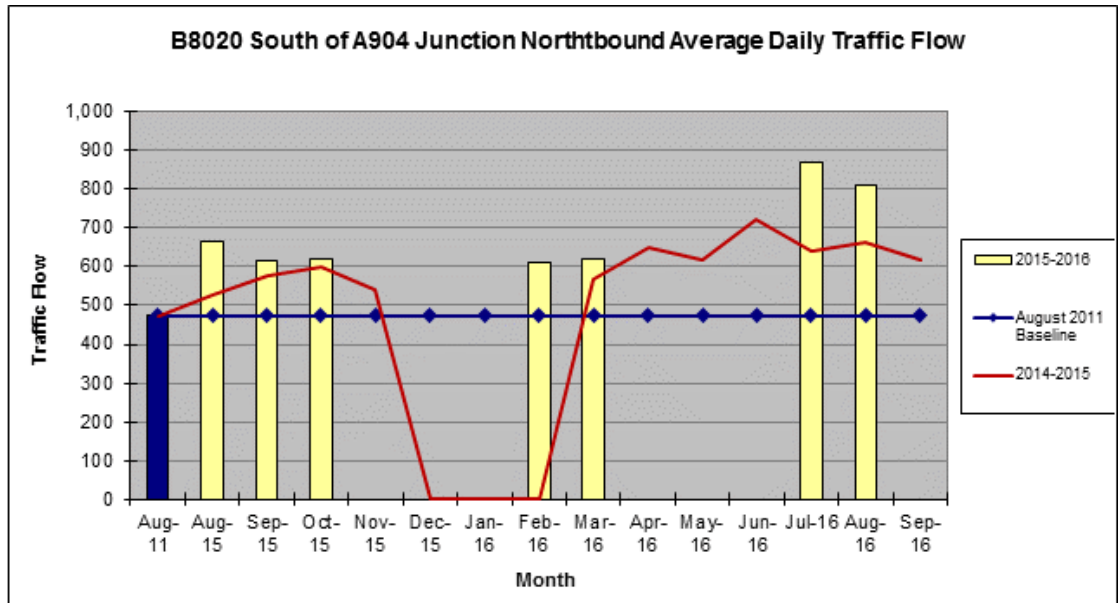


Figure 5-85 Monthly AADTs on the B8020 South of A904 Junction

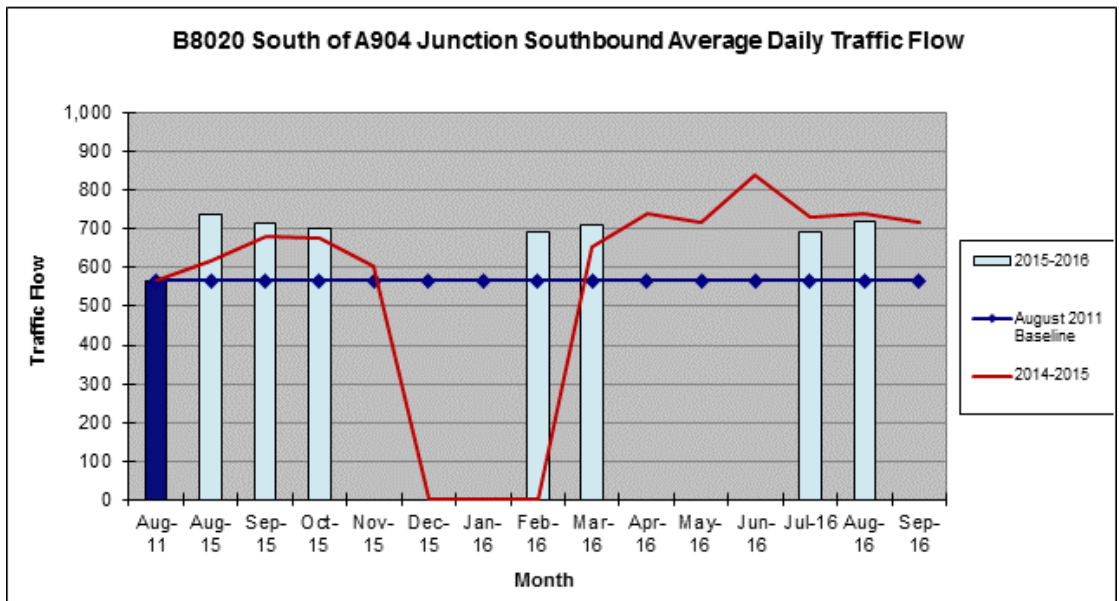


Figure 5-86 Monthly AADTs on the B8020 South of A904 Junction

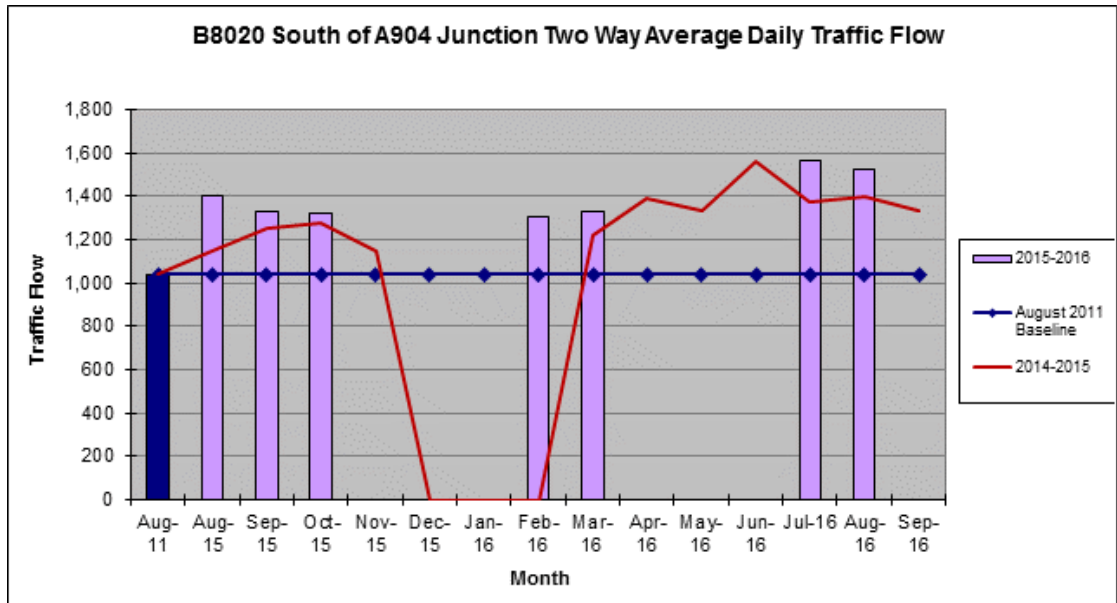


Figure 5-87 Monthly Two Way Daily Traffic Flows on the B8020 South of A904 Junction

### 5.13.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-50 Site: JTC00600 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00600	B8020 South of A904 Junction	Aug-11	184	253
		Aug-15	256	360
		Sep-15	275	341
		Oct-15	270	336
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	317	301
		Mar-16	258	293
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	258	433
		Aug-16	251	417
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>272</b>	<b>344</b>	

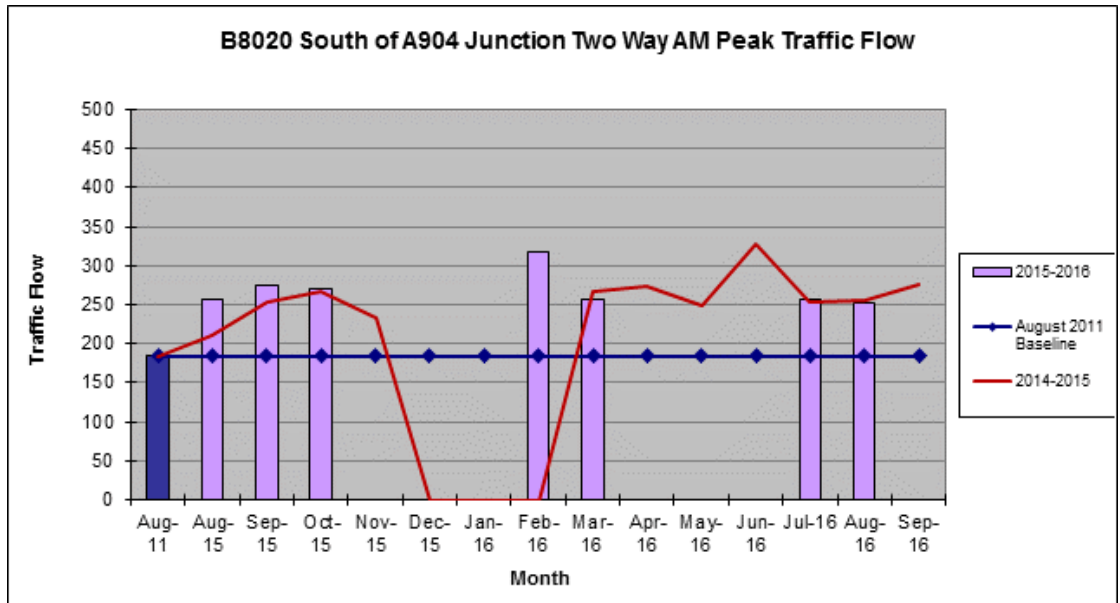


Figure 5-88 Monthly Two Way AM Peak Flows on the B8020 South of A904 Junction

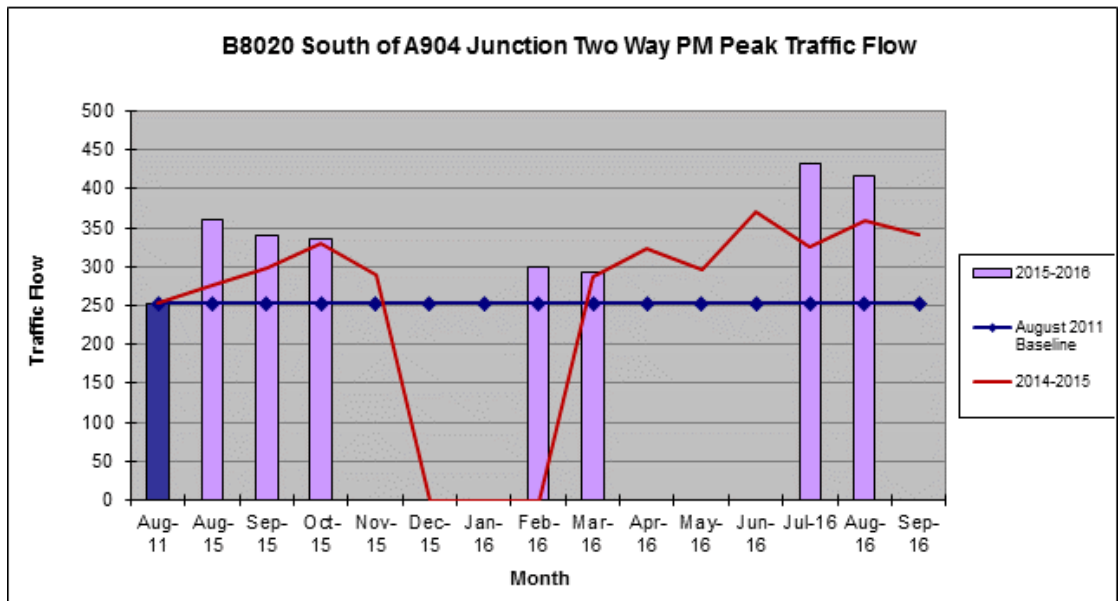


Figure 5-89 Monthly Two Way PM Peak Flows on the B8020 South of A904 Junction

5.13.3 Monthly Average HGV Flows

Table 5-51 Site: JTC00600 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00600	B8020 South of A904 Junction	Aug-11	1
		Aug-15	3
		Sep-15	3
		Oct-15	4
		Nov-15	No Data
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	2
		Mar-16	3
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	6
		Aug-16	8
		Sep-16	No Data

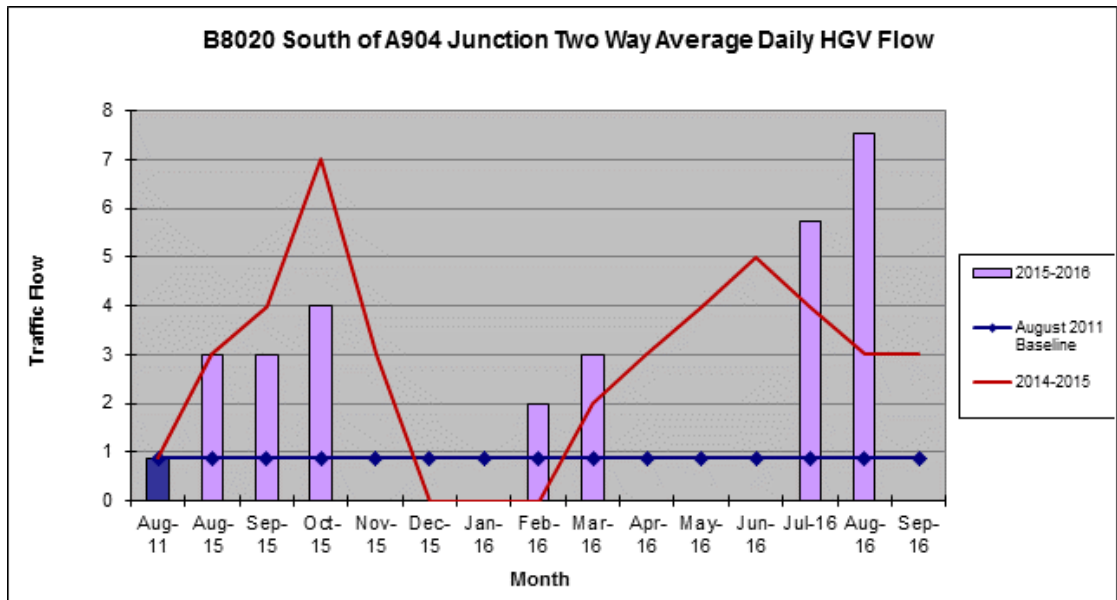
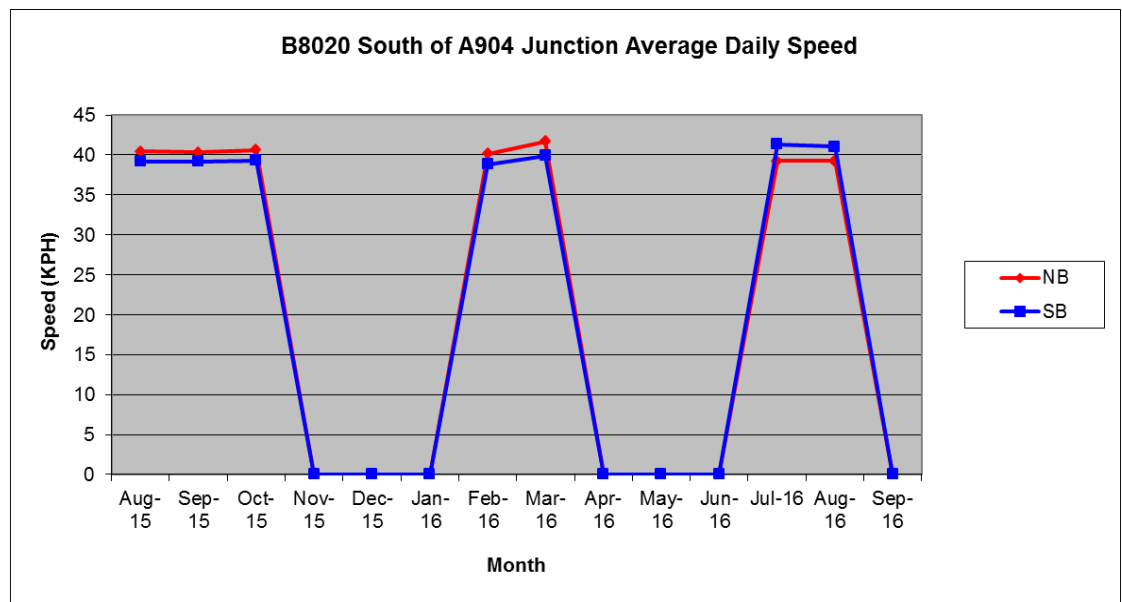


Figure 5-90 Monthly Two Way HGV Traffic Flows on the B8020 South of A904 Junction

### 5.13.4 Monthly Average All Vehicles Traffic Speeds

**Table 5-52 Site: JTC00600 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00600	B8020 South of A904 Junction	Aug-15	40	39
		Sep-15	40	39
		Oct-15	41	39
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	40	39
		Mar-16	42	40
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	39	41
		Aug-16	39	41
		Sep-16	No Data	No Data



**Figure 5-91 Average Monthly Traffic Speeds (KPH) on the B8020 South of A904 Junction**

## 5.14 Traffic Counter JTC00601 - B800 New Liston Road

Summary of statistics between August 2015 and September 2016:

- This counter has been experiencing intermittent problems, recording unreliable data for some months.

### 5.14.1 Monthly Average Traffic Flows

*Table 5-53 Site: JTC00601 Annual Traffic Flows - August 2015 to September 2016*

Counter	Location	Date	EB	WB	Two Way
JTC00601	B800 New Liston Road	Aug-11	4,339	4,131	8,470
		Aug-15	4,255	4,023	8,278
		Sep-15	4,415	4,122	8,537
		Oct-15	4,405	4,039	8,444
		Nov-15	No Data	No Data	No Data
		Dec-15	3,798	3,328	7,126
		Jan-16	4,245	4,119	8,363
		Feb-16	4,305	4,400	8,705
		Mar-16	No Data	No Data	No Data
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	4,010	3,935	7,946
		Jul-16	4,259	3,883	8,142
		Aug-16	4,632	4,273	8,905
		Sep-16	4,480	4,039	8,519
	<b>Annual Average</b>	<b>4,211</b>	<b>3,981</b>	<b>8,193</b>	



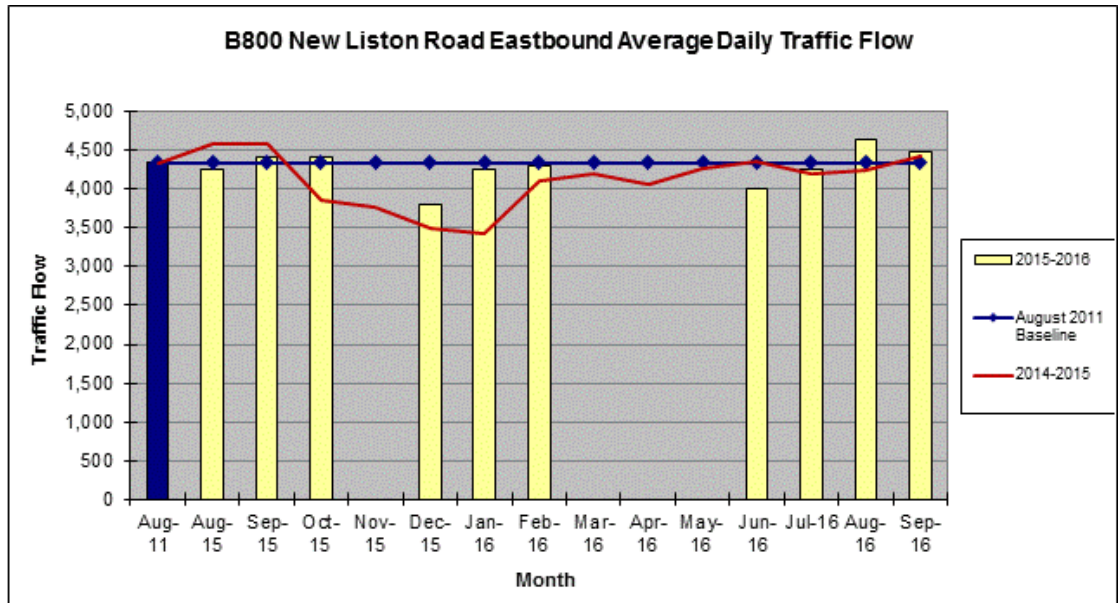


Figure 5-92 Monthly AADTs on the B800 New Liston Road

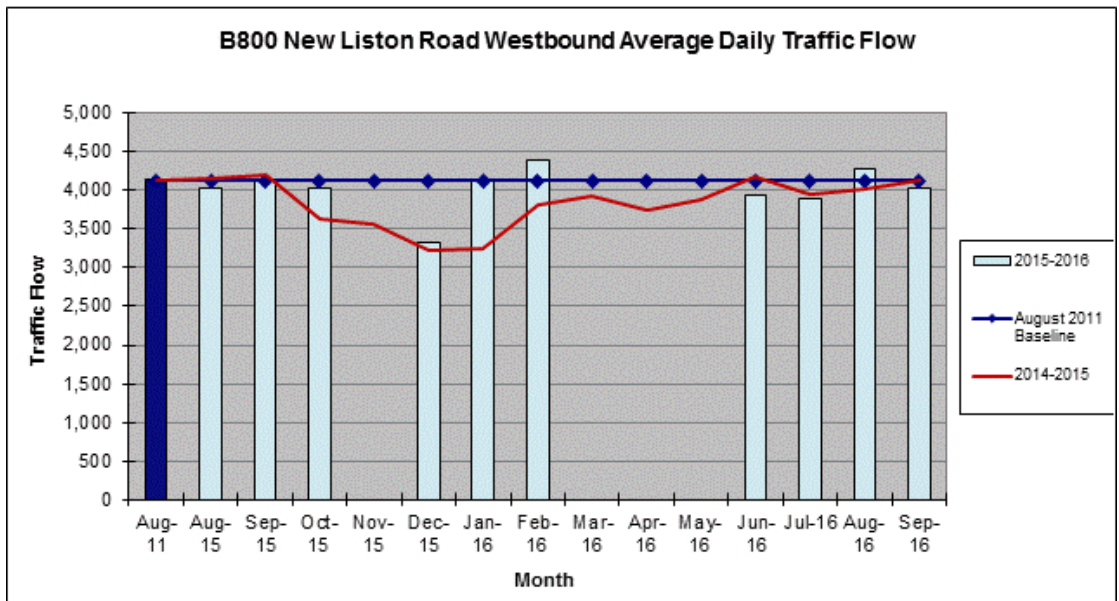


Figure 5-93 Monthly AADTs on the B800 New Liston Road

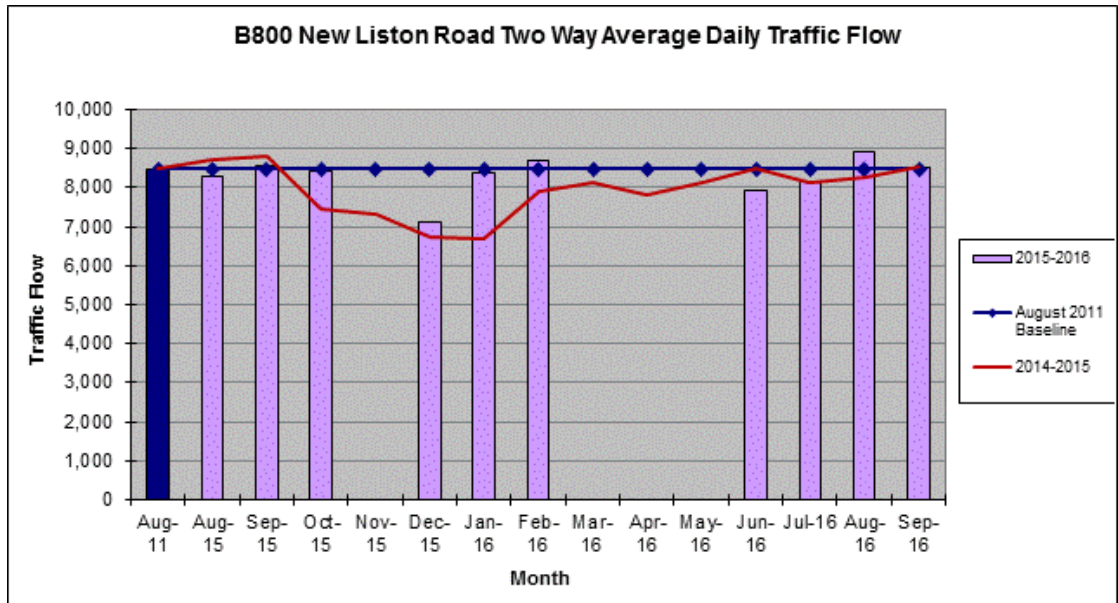


Figure 5-94 Monthly Two Way Daily Traffic Flows on the B800 New Liston Road

### 5.14.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-54 Site: JTC00601 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00601	B800 New Liston Road	Aug-11	1,504	2,246
		Aug-15	1,334	1,981
		Sep-15	1,557	2,085
		Oct-15	1,495	2,072
		Nov-15	No Data	No Data
		Dec-15	1,091	1,546
		Jan-16	1,555	1,948
		Feb-16	1,619	1,994
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	1,285	1,891
		Jul-16	1,228	1,926
		Aug-16	1,444	2,090
		Sep-16	1,458	1,986
	<b>Annual Average</b>	<b>1,395</b>	<b>1,930</b>	

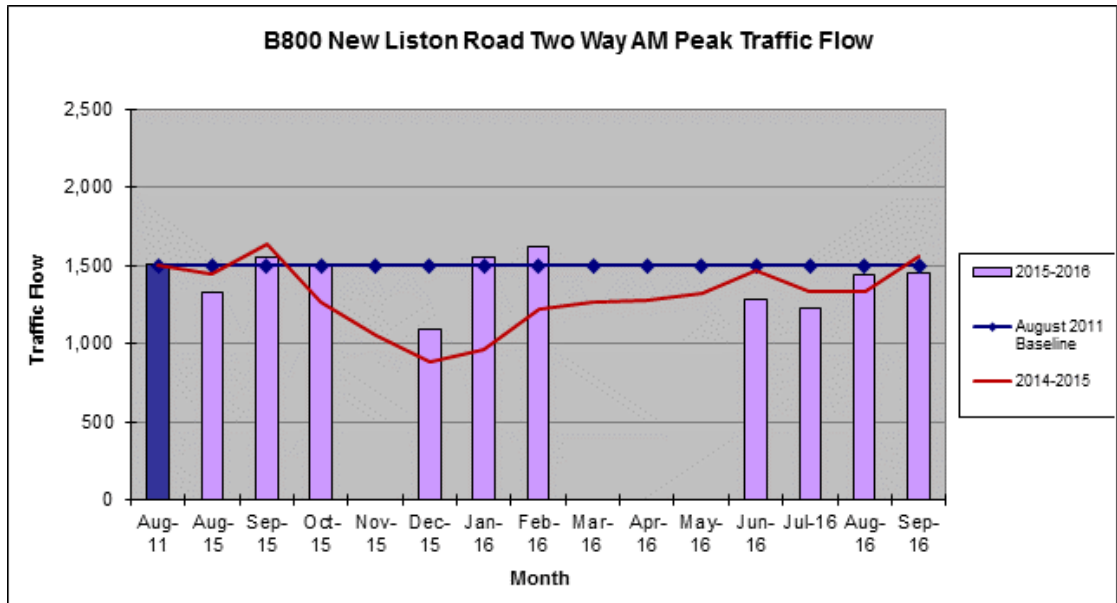


Figure 5-95 Monthly Two Way AM Peak Flows on the B800 New Liston Road

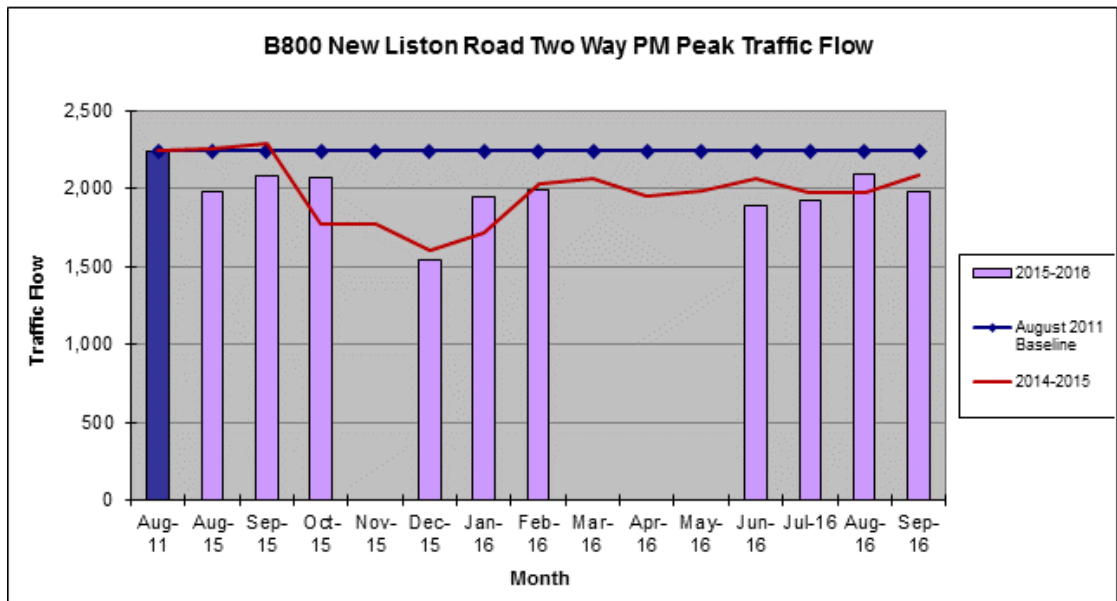


Figure 5-96 Monthly Two Way PM Peak Flows on the B800 New Liston Road

### 5.14.3 Monthly Average HGV Flows

Table 5-55 Site: JTC00601 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00601	B800 New Liston Road	Aug-11	130
		Aug-15	146
		Sep-15	170
		Oct-15	174
		Nov-15	No Data
		Dec-15	131
		Jan-16	159
		Feb-16	165
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	156
		Jul-16	157
		Aug-16	163
		Sep-16	162

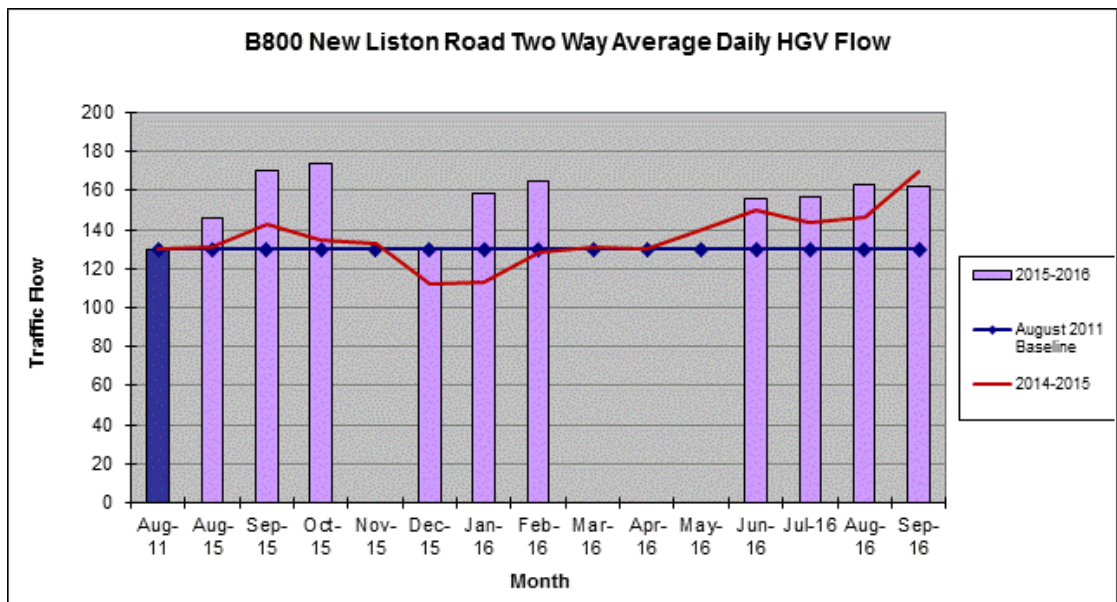
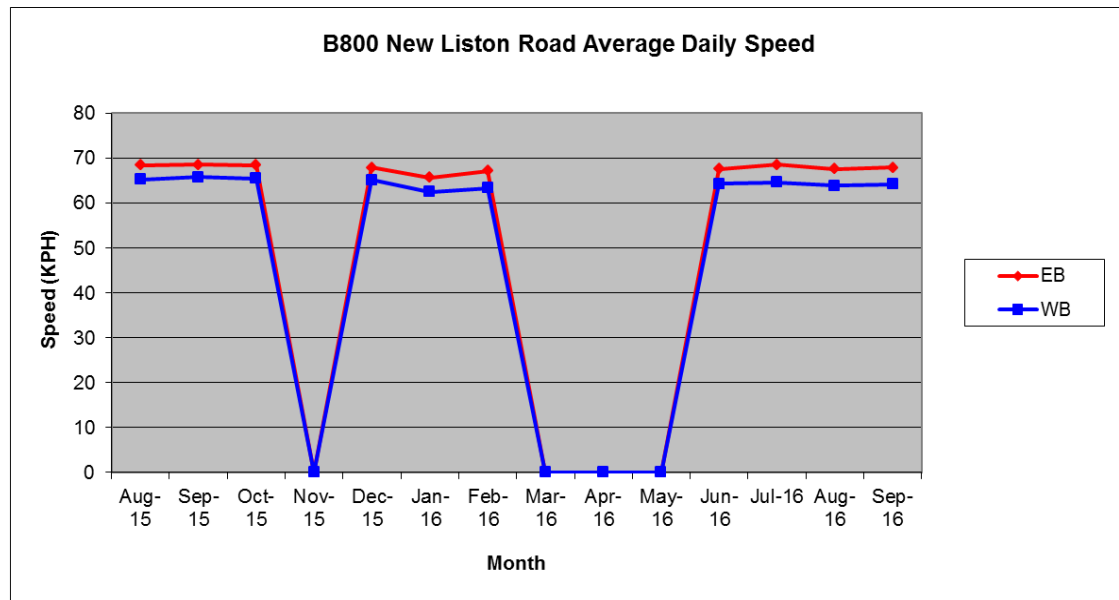


Figure 5-97 Monthly Two Way HGV Traffic Flows on the B800 New Liston Road

### 5.14.4 Monthly Average All Vehicles Traffic Speeds

**Table 5-56 Site: JTC00601 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00601	B800 New Liston Road	Aug-15	68	65
		Sep-15	69	66
		Oct-15	68	65
		Nov-15	No Data	No Data
		Dec-15	68	65
		Jan-16	66	62
		Feb-16	67	63
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	68	64
		Jul-16	69	65
		Aug-16	68	64
		Sep-16	68	64



**Figure 5-98 Average Monthly Traffic Speeds (KPH) on the B800 New Liston Road**

## 5.15 Traffic Counter JTC00603 - B907 Kirkliston Road (South Queensferry)

Summary of statistics between August 2015 and September 2016:

- Traffic flows are consistent with the 2011 baseline.
- This counter has been experiencing intermittent faults. Re-location is being considered as a potential solution.

### 5.15.1 Monthly Average Traffic Flows

**Table 5-57 Site: JTC00603 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00603	B907 Kirkliston Road (South Queensferry)	Aug-11	4,479	4,575	9,053
		Aug-15	4,707	4,961	9,668
		Sep-15	4,562	4,798	9,360
		Oct-15	4,500	4,715	9,215
		Nov-15	4,318	4,599	8,916
		Dec-15	4,103	4,332	8,435
		Jan-16	No Data	No Data	No Data
		Feb-16	No Data	No Data	No Data
		Mar-16	No Data	No Data	No Data
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	No Data	No Data	No Data
		Jul-16	No Data	No Data	No Data
		Aug-16	No Data	No Data	No Data
		Sep-16	No Data	No Data	No Data
		<b>Annual Average</b>	<b>4,438</b>	<b>4,681</b>	<b>9,119</b>

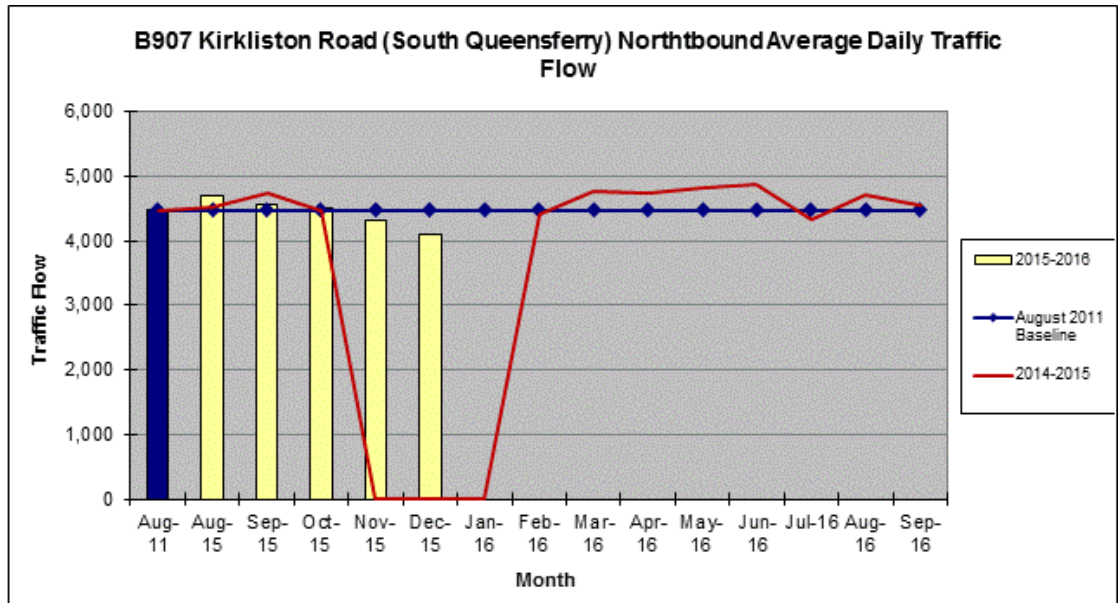


Figure 5-99 Monthly AADTs on the B907 Kirkliston Road (South Queensferry)

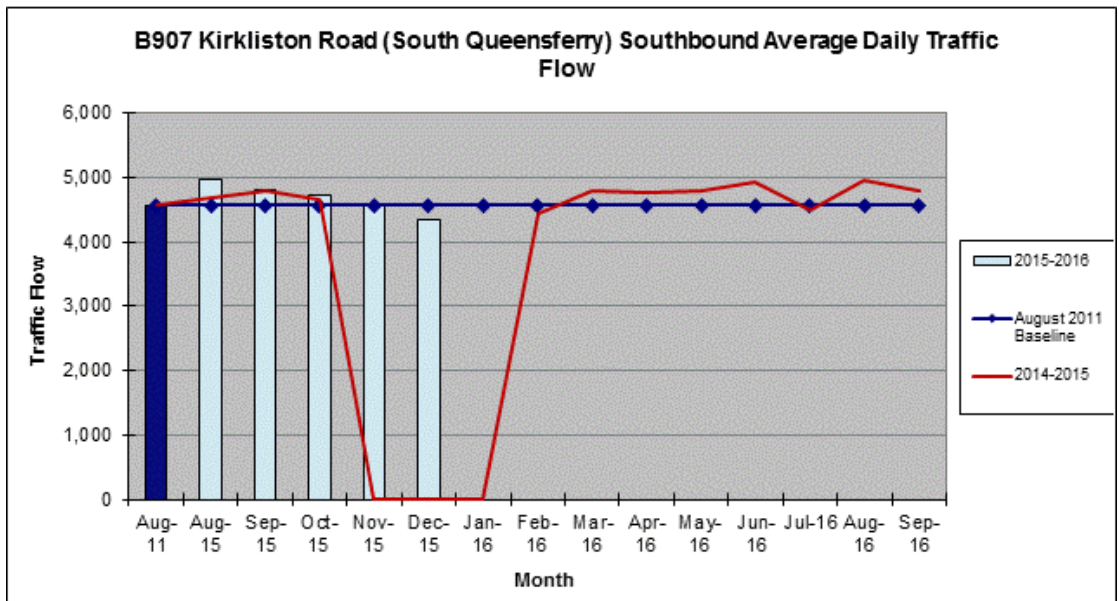


Figure 5-100 Monthly AADTs on the B907 Kirkliston Road (South Queensferry)

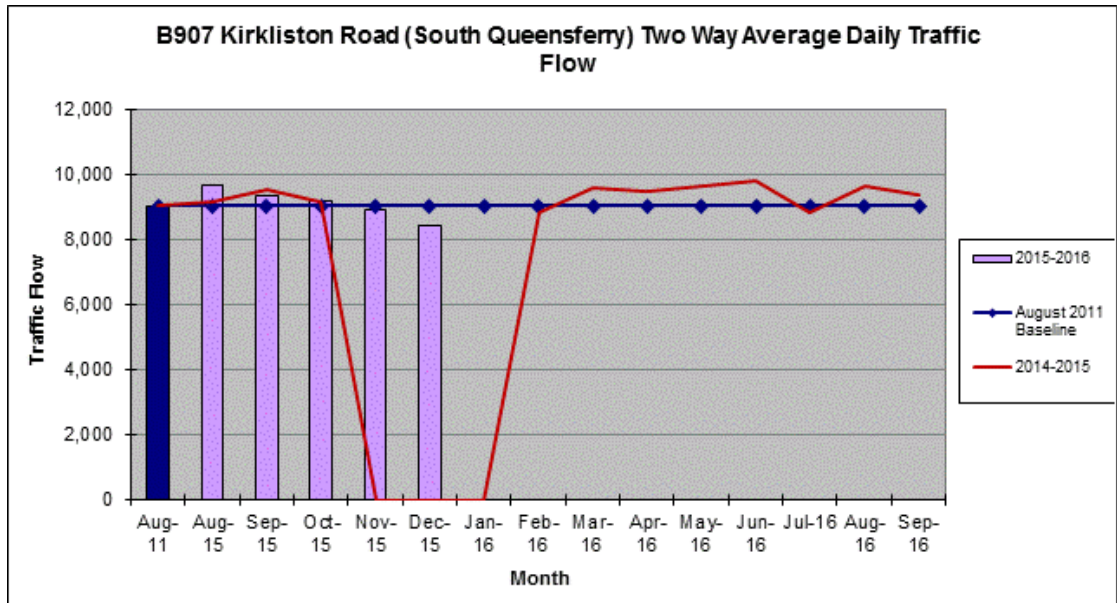


Figure 5-101 Monthly Two Way Daily Traffic Flows on the B907 Kirkliston Road (South Queensferry)

5.15.2 Monthly Average AM and PM Peak Traffic Flows

Table 5-58 Site: JTC00603 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00603	B907 Kirkliston Road (South Queensferry)	Aug-11	1,247	2,232
		Aug-15	1,262	2,464
		Sep-15	1,364	2,400
		Oct-15	1,326	2,285
		Nov-15	987	2,254
		Dec-15	1,100	2,075
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>1,208</b>	<b>2,295</b>	



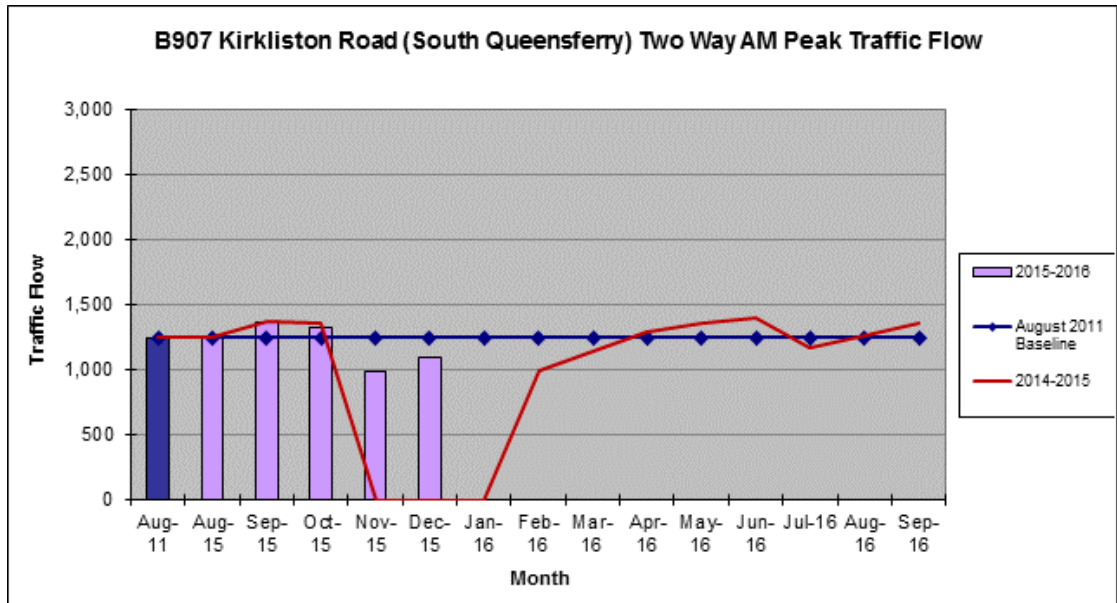


Figure 5-102 Monthly Two Way AM Peak Flows on the B907 Kirkliston Road (South Queensferry)

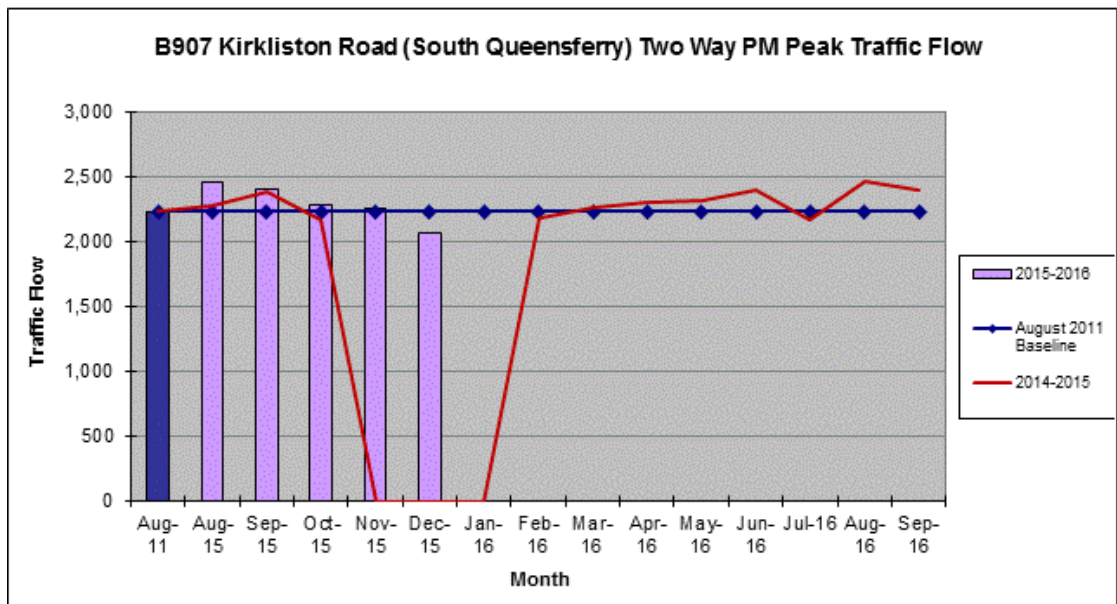


Figure 5-103 Monthly Two Way PM Peak Flows on the B907 Kirkliston Road (South Queensferry)

### 5.15.3 Monthly Average HGV Flows

Table 5-59 Site: JTC00603 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way	
JTC00603	B907 Kirkliston Road (South Queensferry)	Aug-11	59	
		Aug-15	146	
		Sep-15	149	
		Oct-15	147	
		Nov-15	149	
		Dec-15	146	
		Jan-16	No Data	
		Feb-16	No Data	
		Mar-16	No Data	
		Apr-16	No Data	
		May-16	No Data	
		Jun-16	No Data	
		Jul-16	No Data	
		Aug-16	No Data	
		Sep-16	No Data	
		<b>Annual Average</b>		<b>147</b>

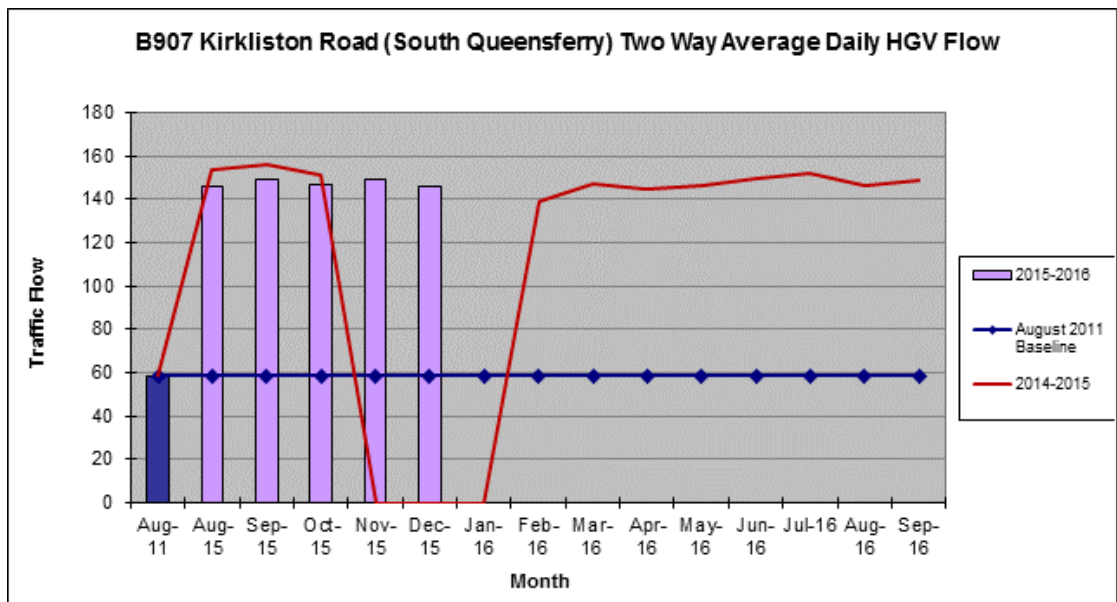
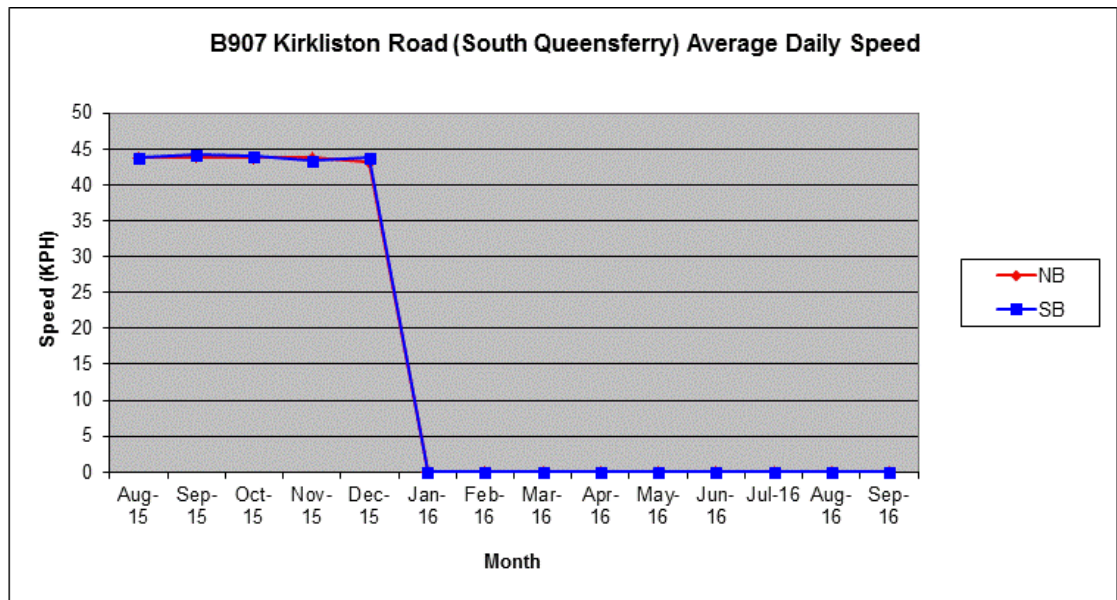


Figure 5-104 Monthly Two Way HGV Traffic Flows on the B907 Kirkliston Road (South Queensferry)

### 5.15.4 Monthly Average All Vehicles Traffic Speeds

**Table 5-60 Site: JTC00603 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00603	B907 Kirkliston Road (South Queensferry)	Aug-15	44	44
		Sep-15	44	44
		Oct-15	44	44
		Nov-15	44	43
		Dec-15	43	44
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data



**Figure 5-105 Average Monthly Traffic Speeds (KPH) on the B907 Kirkliston Road (South Queensferry)**

## 6 Other Roads – Automatic Traffic Counter Data

### 6.1 Traffic Counter JTC00392 - Hillend Road (West of Inverkeithing)

Summary of statistics between August 2015 and September 2016:

- Counter changed from Euro6 vehicle classification system to CA10 classification system in April 2016, due to the NTDS system update (see section 2.3).

#### 6.1.1 Monthly Average Traffic Flows

**Table 6-1 Site: JTC00392 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00392	Hillend Road (West of Inverkeithing)	Aug-11	1,407	1,074	2,481
		Aug-15	1,390	1,116	2,506
		Sep-15	1,526	1,200	2,726
		Oct-15	1,408	1,104	2,513
		Nov-15	1,570	1,232	2,802
		Dec-15	No Data	No Data	No Data
		Jan-16	1,370	1,108	2,478
		Feb-16	1,676	1,362	3,038
		Mar-16	1,584	1,290	2,874
		Apr-16	1,609	1,241	2,850
		May-16	1,593	1,189	2,782
		Jun-16	1,638	1,230	2,867
		Jul-16	1,198	903	2,101
		Aug-16	1,550	1,171	2,721
		Sep-16	1,656	1,265	2,922
	<b>Annual Average</b>	<b>1,506</b>	<b>1,180</b>	<b>2,685</b>	

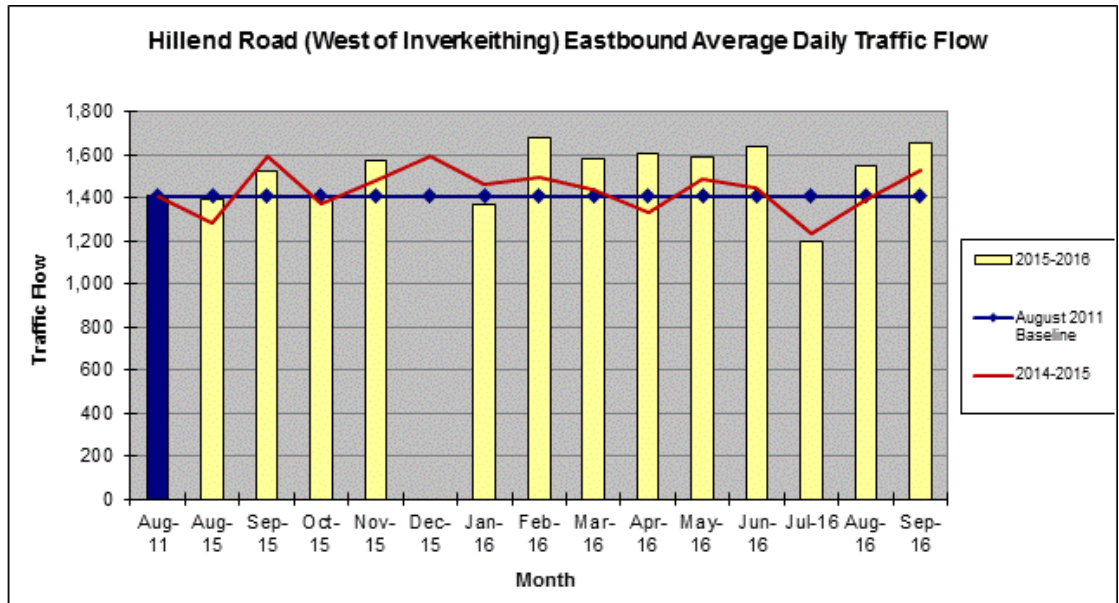


Figure 6-1 Monthly AADTs on the Hillend Road (West of Inverkeithing)

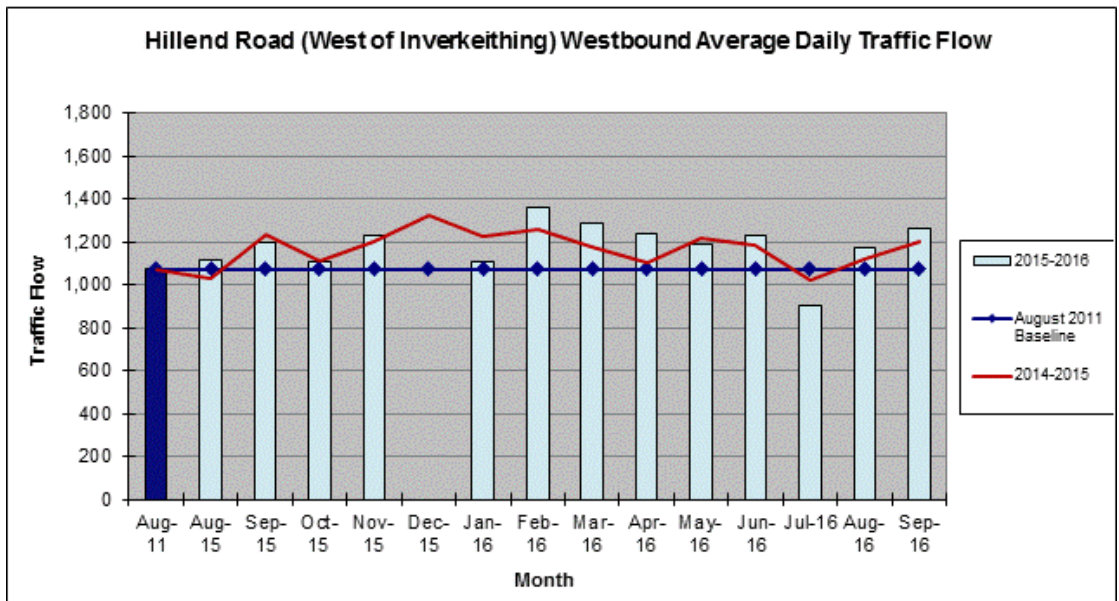


Figure 6-2 Monthly AADTs on the Hillend Road (West of Inverkeithing)

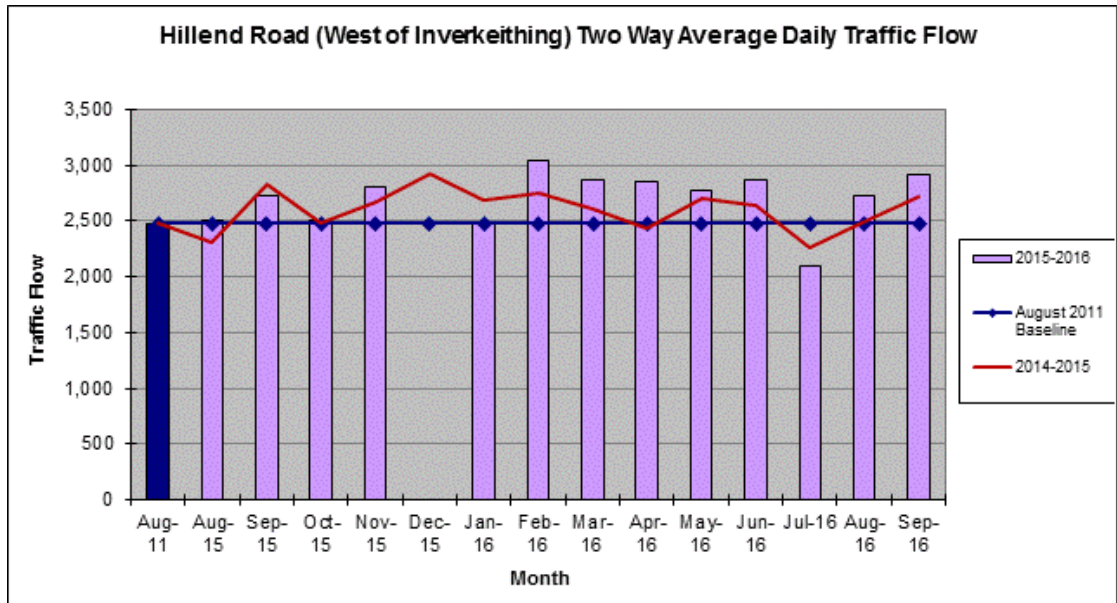


Figure 6-3 Monthly Two Way Daily Traffic Flows on the Hillend Road (West of Inverkeithing)

### 6.1.2 Monthly Average AM and PM Peak Traffic Flows

Table 6-2 Site: JTC00392 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00392	Hillend Road (West of Inverkeithing)	Aug-11	411	639
		Aug-15	391	686
		Sep-15	484	760
		Oct-15	420	704
		Nov-15	547	784
		Dec-15	No Data	No Data
		Jan-16	456	657
		Feb-16	536	798
		Mar-16	510	770
		Apr-16	471	781
		May-16	437	758
		Jun-16	513	757
		Jul-16	258	569
		Aug-16	434	741
Sep-16	548	792		
	<b>Annual Average</b>	<b>456</b>	<b>729</b>	

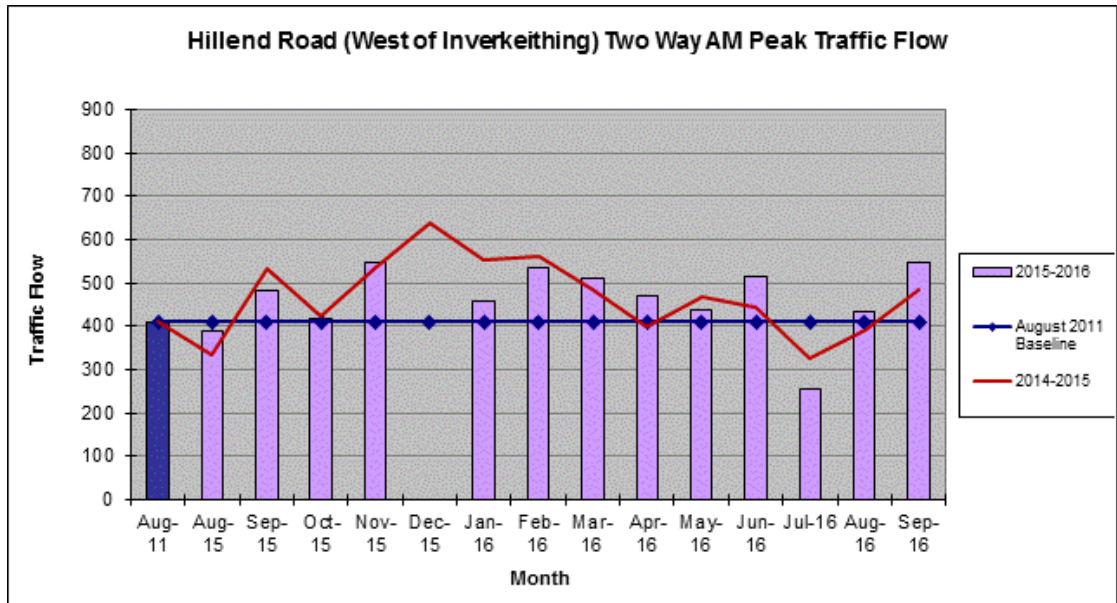


Figure 6-4 Monthly Two Way AM Peak Flows on the Hillend Road (West of Inverkeithing)

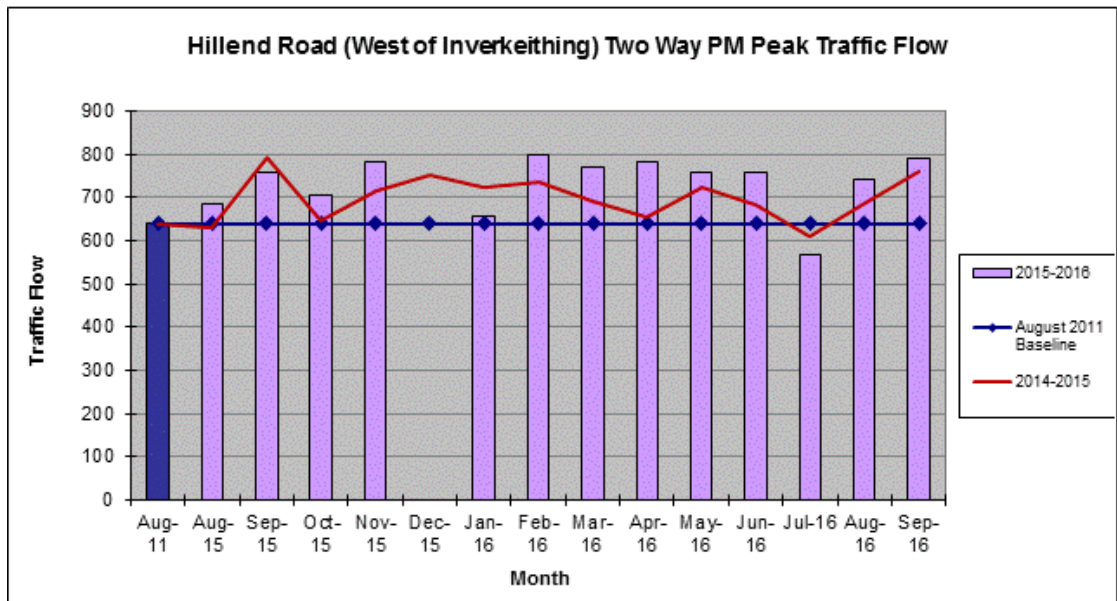


Figure 6-5 Monthly Two Way PM Peak Flows on the Hillend Road (West of Inverkeithing)

### 6.1.3 Monthly Average HGV Flows

Table 6-3 Site: JTC00392 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00392	Hillend Road (West of Inverkeithing)	Aug-11	82
		Aug-15	73
		Sep-15	76
		Oct-15	74
		Nov-15	74
		Dec-15	No Data
		Jan-16	71
		Feb-16	87
		Mar-16	82
		Apr-16	78
		May-16	77
		Jun-16	83
		Jul-16	73
		Aug-16	92
		Sep-16	110

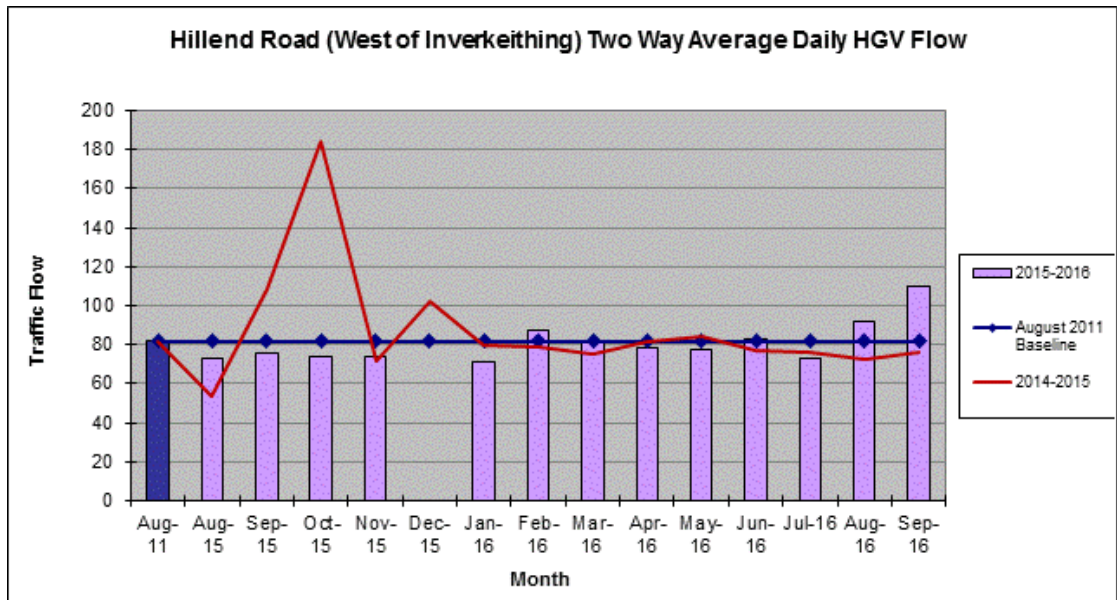


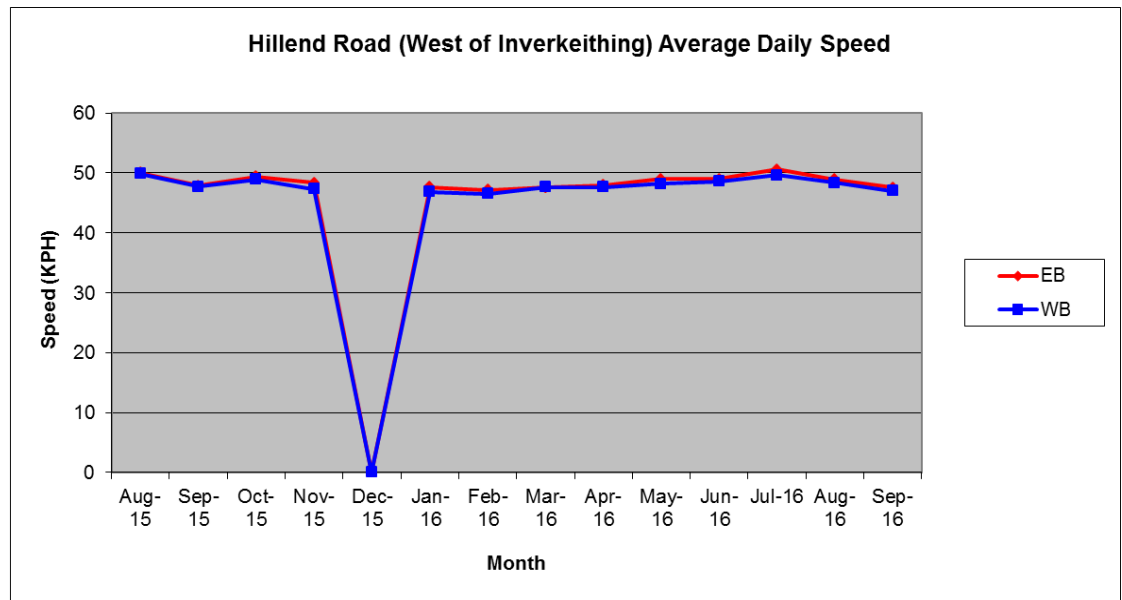
Figure 6-6 Monthly Two Way HGV Traffic Flows on the Hillend Road (West of Inverkeithing)



### 6.1.4 Monthly Average All Vehicles Traffic Speeds

**Table 6-4 Site: JTC00392 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00392	Hillend Road (West of Inverkeithing)	Aug-15	50	50
		Sep-15	48	48
		Oct-15	49	49
		Nov-15	48	47
		Dec-15	No Data	No Data
		Jan-16	48	47
		Feb-16	47	47
		Mar-16	48	48
		Apr-16	48	48
		May-16	49	48
		Jun-16	49	49
		Jul-16	51	50
		Aug-16	49	48
		Sep-16	48	47



**Figure 6-7 Average Monthly Traffic Speeds (KPH) on the Hillend Road (West of Inverkeithing)**

## 6.2 Traffic Counter JTC00576 - Burnshot Road (West of Craigiehall)

### 6.2.1 Monthly Average Traffic Flows

Table 6-5 Site: JTC00576 Annual Traffic Flows - August 2015 to September 2016

Counter	Location	Date	EB	WB	Two Way
JTC00576	Burnshot Road (West of Craigiehall)	Aug-11	1,424	1,867	3,291
		Aug-15	1,698	2,114	3,812
		Sep-15	1,723	2,083	3,805
		Oct-15	1,686	2,093	3,779
		Nov-15	No Data	No Data	No Data
		Dec-15	No Data	No Data	No Data
		Jan-16	No Data	No Data	No Data
		Feb-16	1,735	1,952	3,687
		Mar-16	1,835	2,139	3,975
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	2,026	2,340	4,366
		Jul-16	1,722	2,029	3,751
		Aug-16	1,931	2,222	4,153
		Sep-16	1,953	2,219	4,171
	<b>Annual Average</b>	<b>1,775</b>	<b>2,107</b>	<b>3,882</b>	

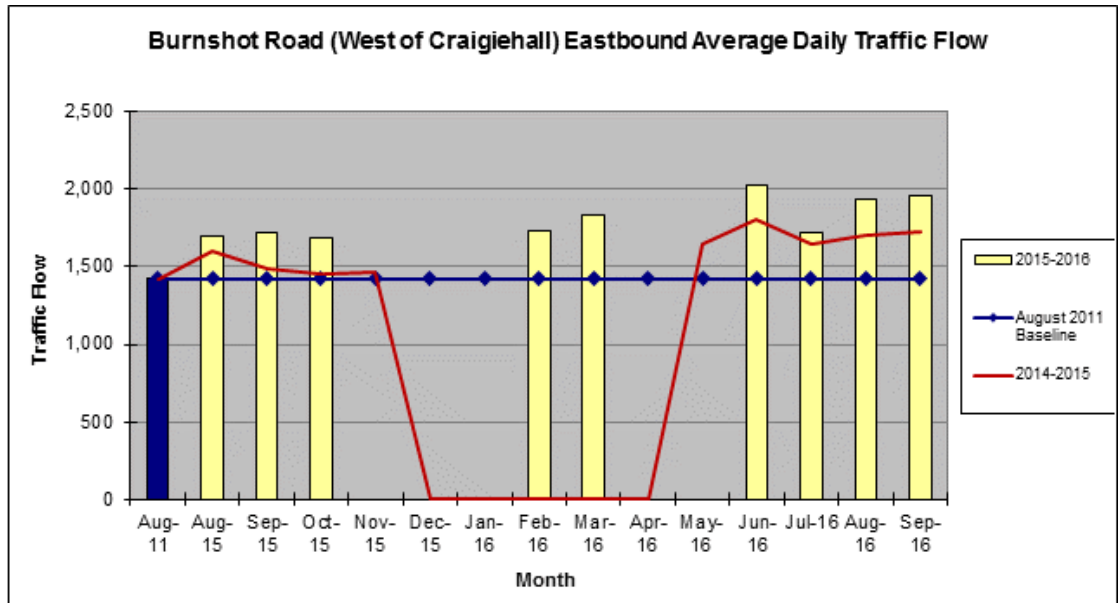


Figure 6-8 Monthly AADTs on the Burnshot Road (West of Craigiehall)

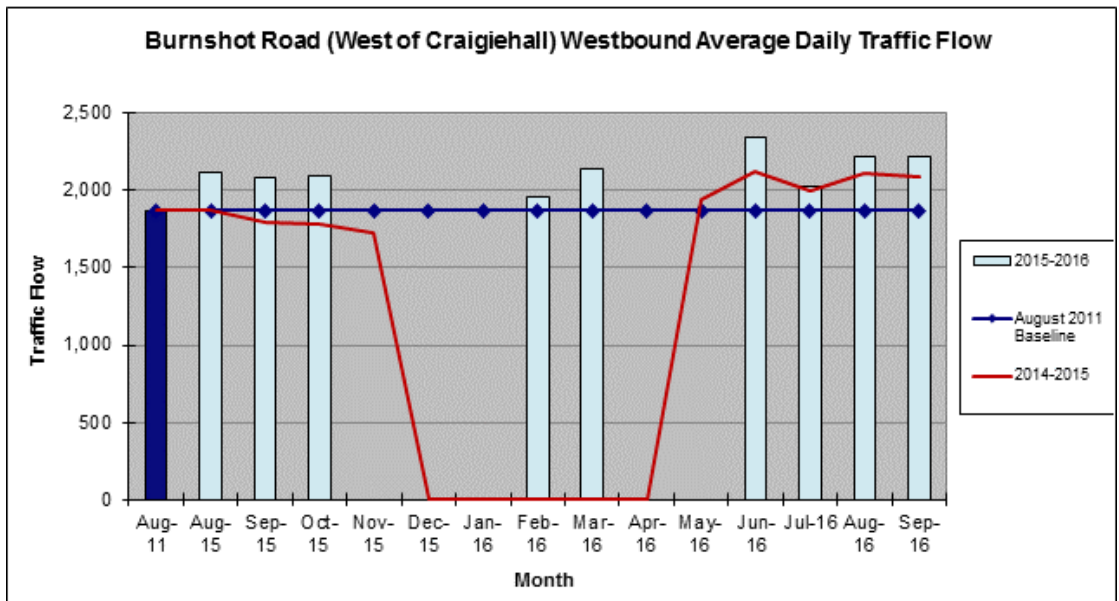


Figure 6-9 Monthly AADTs on the Burnshot Road (West of Craigiehall)

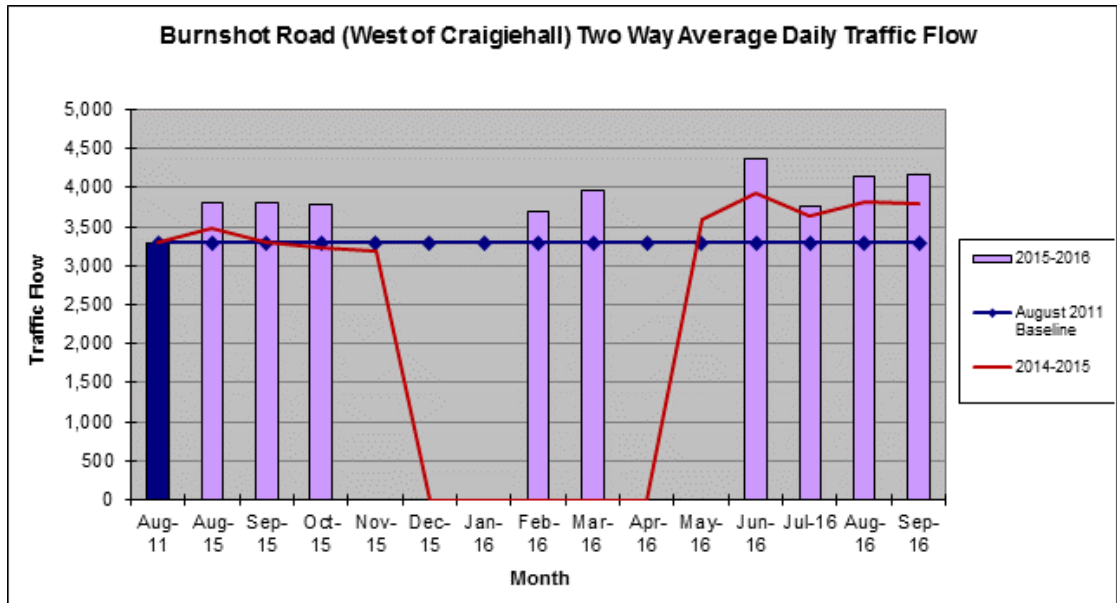


Figure 6-10 Monthly Two Way Daily Traffic Flows on the Burnshot Road (West of Craigiehall)

### 6.2.2 Monthly Average AM and PM Peak Traffic Flows

Table 6-6 Site: JTC00576 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00576	Burnshot Road (West of Craigiehall)	Aug-11	655	989
		Aug-15	714	1,104
		Sep-15	829	1,150
		Oct-15	819	1,119
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	855	1,012
		Mar-16	874	1,098
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	775	951
		Jul-16	618	797
		Aug-16	694	933
		Sep-16	742	910
	<b>Annual Average</b>	<b>784</b>	<b>1,033</b>	

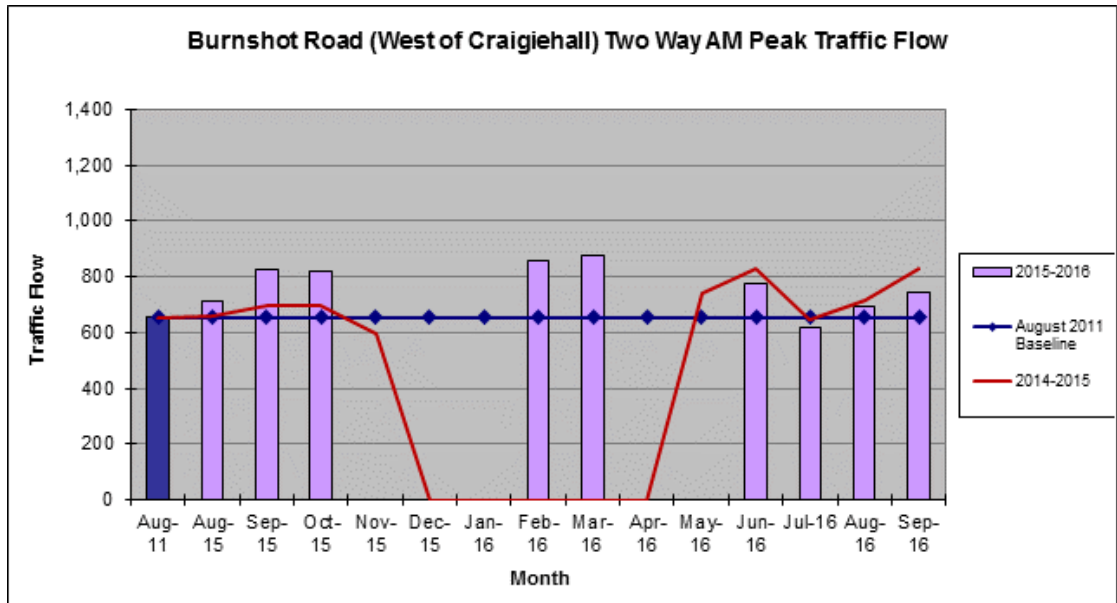


Figure 6-11 Monthly Two Way AM Peak Flows on the Burnshot Road (West of Craigiehall)

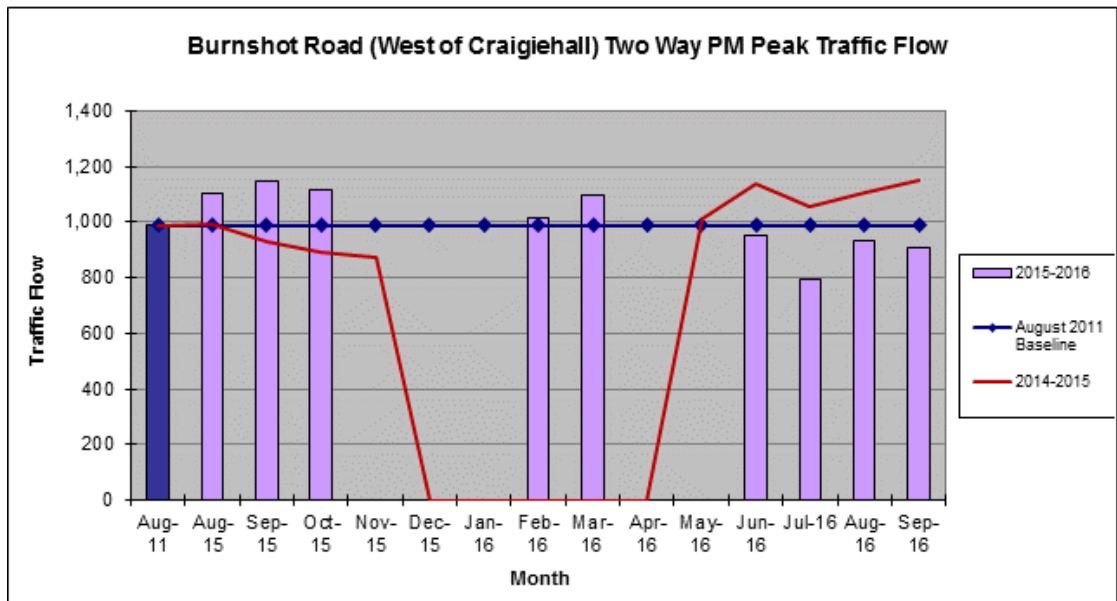


Figure 6-12 Monthly Two Way PM Peak Flows on the Burnshot Road (West of Craigiehall)

### 6.2.3 Monthly Average HGV Flows

Table 6-7 Site: JTC00576 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way	
JTC00576	Burnshot Road (West of Craigiehall)	Aug-11	13	
		Aug-15	6	
		Sep-15	11	
		Oct-15	8	
		Nov-15	No Data	
		Dec-15	No Data	
		Jan-16	No Data	
		Feb-16	5	
		Mar-16	6	
		Apr-16	No Data	
		May-16	No Data	
		Jun-16	8	
		Jul-16	7	
		Aug-16	9	
		Sep-16	13	
		<b>Annual Average</b>		<b>7</b>

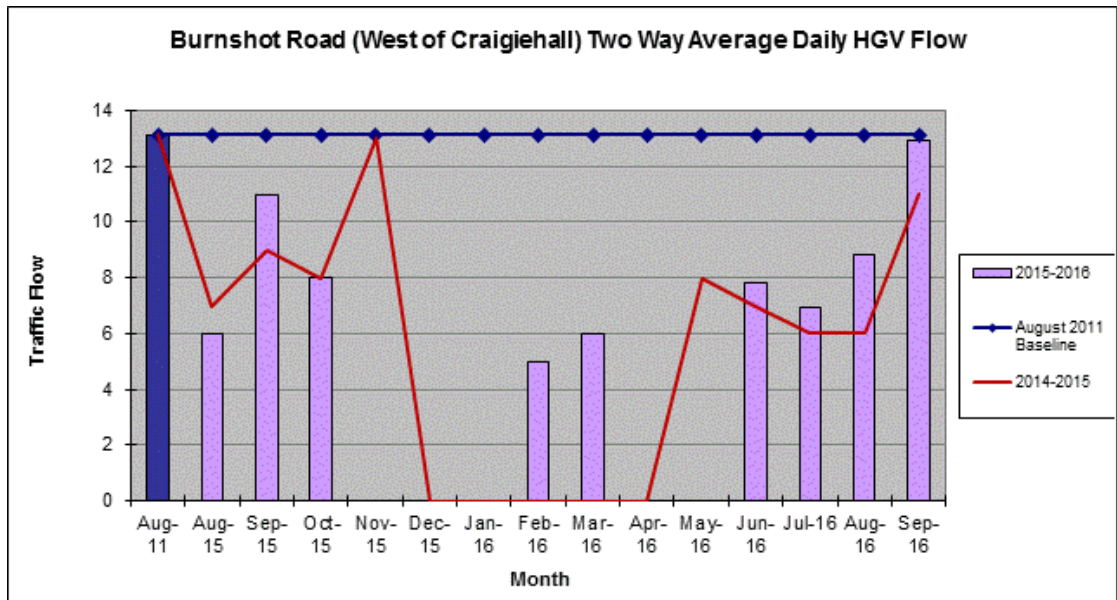
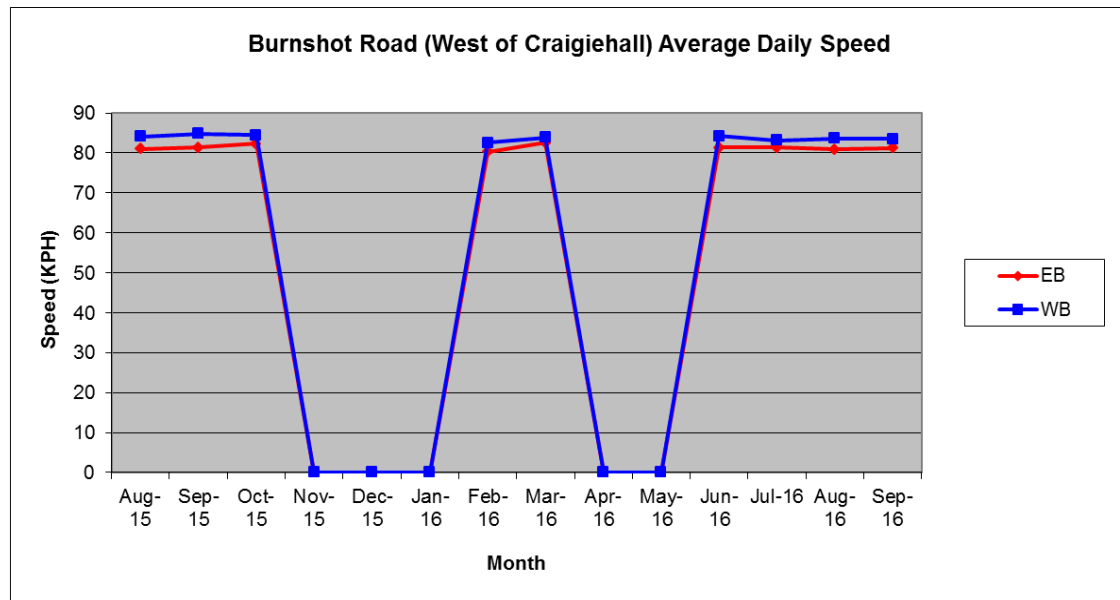


Figure 6-13 Monthly Two Way HGV Traffic Flows on the Burnshot Road (West of Craigiehall)

### 6.2.4 Monthly Average All Vehicles Traffic Speeds

**Table 6-8 Site: JTC00576 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00576	Burnshot Road (West of Craigiehall)	Aug-15	81	84
		Sep-15	81	85
		Oct-15	82	85
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	80	83
		Mar-16	83	84
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	81	84
		Jul-16	81	83
		Aug-16	81	84
		Sep-16	81	84



**Figure 6-14 Average Monthly Traffic Speeds (KPH) on the Burnshot Road (West of Craigiehall)**

### 6.3 Traffic Counter JTC00579 - Queensferry Road (Rosyth)

Summary of statistics between August 2015 and September 2016:

- Counter changed from Euro6 vehicle classification system to CA10 classification system in April 2016, due to the NTDS system update (see section 2.3).
- This counter has been experiencing intermittent problems, recording unreliable data in July 2016 and September 2016.

#### 6.3.1 Monthly Average Traffic Flows

Table 6-9 Site: JTC00579 Annual Traffic Flows - August 2015 to September 2016

Counter	Location	Date	NB	SB	Two Way
JTC00579	Queensferry Road (Rosyth)	Aug-11	3,024	3,832	6,856
		Aug-15	2,982	3,866	6,848
		Sep-15	3,142	3,829	6,971
		Oct-15	3,313	3,817	7,130
		Nov-15	3,356	3,894	7,250
		Dec-15	3,063	3,392	6,455
		Jan-16	2,904	3,329	6,233
		Feb-16	3,287	3,774	7,061
		Mar-16	3,248	3,822	7,070
		Apr-16	3,055	3,587	6,642
		May-16	3,035	3,629	6,664
		Jun-16	3,101	3,627	6,728
		Jul-16	No Data	No Data	No Data
		Aug-16	3,340	4,015	7,355
		Sep-16	No Data	No Data	No Data
	<b>Annual Average</b>	<b>3,135</b>	<b>3,688</b>	<b>6,823</b>	



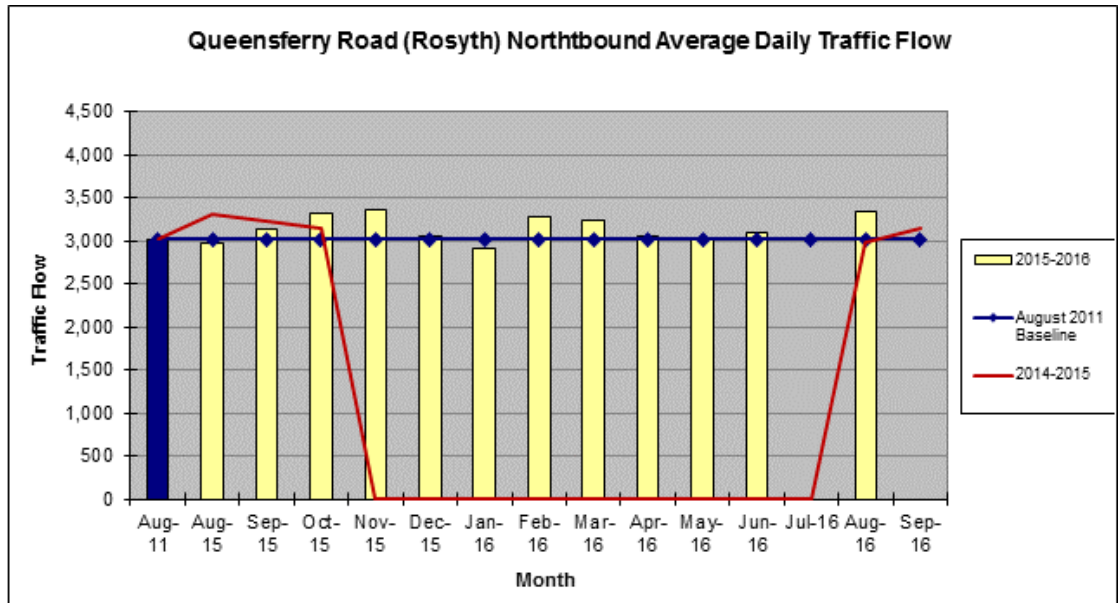


Figure 6-15 Monthly AADTs on the Queensferry Road (Rosyth)

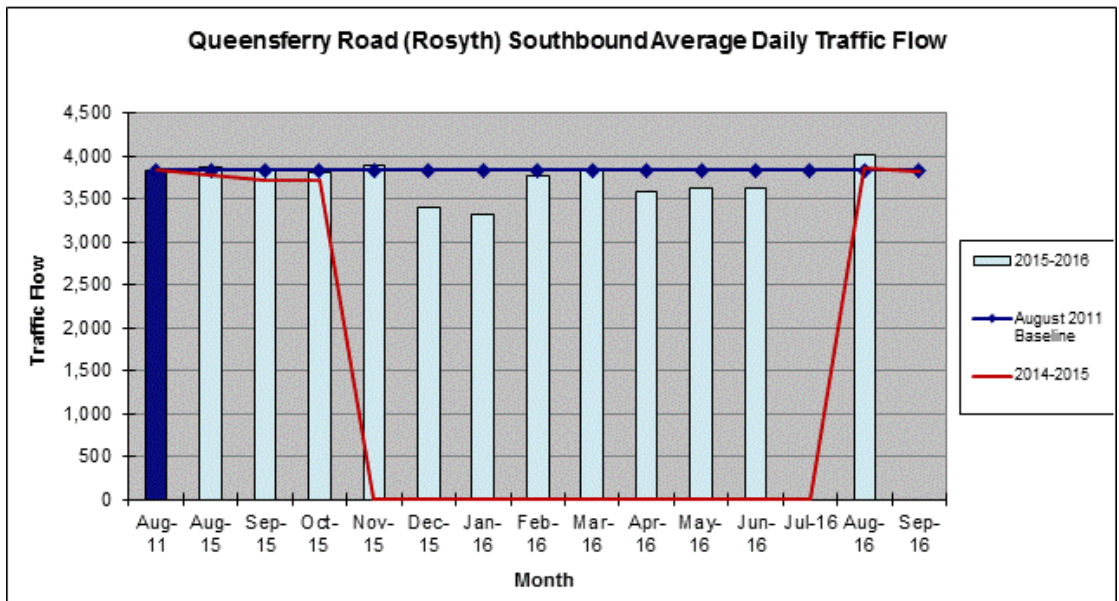


Figure 6-16 Monthly AADTs on the Queensferry Road (Rosyth)

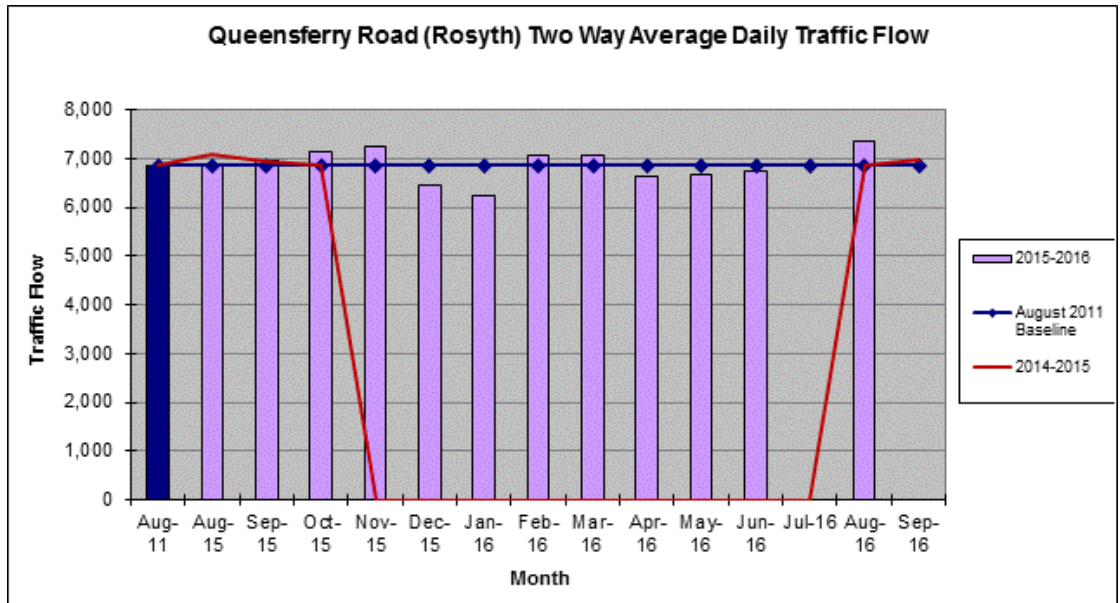


Figure 6-17 Monthly Two Way Daily Traffic Flows on the Queensferry Road (Rosyth)

### 6.3.2 Monthly Average AM and PM Peak Traffic Flows

Table 6-10 Site: JTC00579 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00579	Queensferry Road (Rosyth)	Aug-11	1,062	1,481
		Aug-15	1,069	1,501
		Sep-15	1,218	1,531
		Oct-15	1,184	1,568
		Nov-15	1,235	1,593
		Dec-15	862	1,368
		Jan-16	964	1,332
		Feb-16	1,198	1,512
		Mar-16	1,152	1,511
		Apr-16	868	1,447
		May-16	952	1,436
		Jun-16	1,077	1,433
		Jul-16	No Data	No Data
		Aug-16	1,115	1,599
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>1,071</b>	<b>1,476</b>	

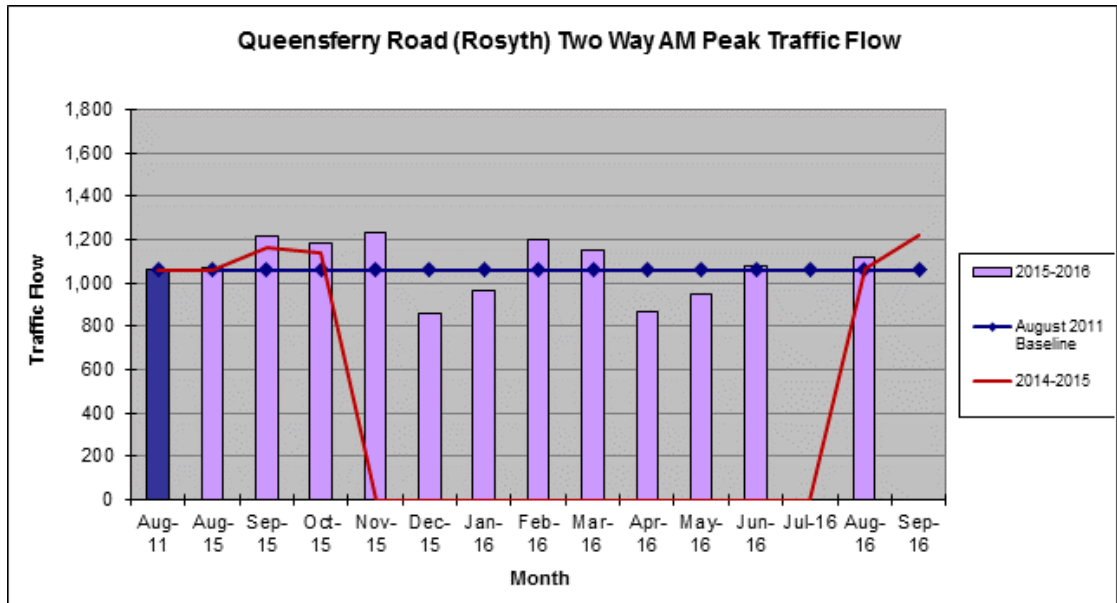


Figure 6-18 Monthly Two Way AM Peak Flows on the Queensferry Road (Rosyth)

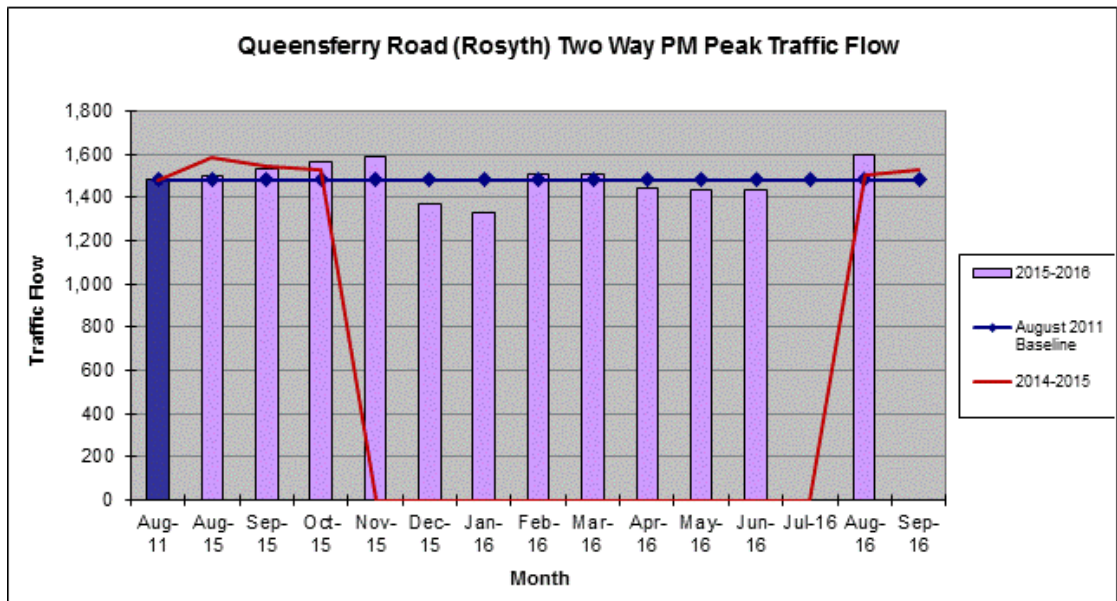


Figure 6-19 Monthly Two Way PM Peak Flows on the Queensferry Road (Rosyth)

### 6.3.3 Monthly Average HGV Flows

Table 6-11 Site: JTC00579 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00579	Queensferry Road (Rosyth)	Aug-11	356
		Aug-15	341
		Sep-15	346
		Oct-15	213
		Nov-15	222
		Dec-15	176
		Jan-16	204
		Feb-16	239
		Mar-16	230
		Apr-16	224
		May-16	229
		Jun-16	216
		Jul-16	No Data
		Aug-16	219
		Sep-16	No Data
<b>Annual Average</b>			<b>240</b>

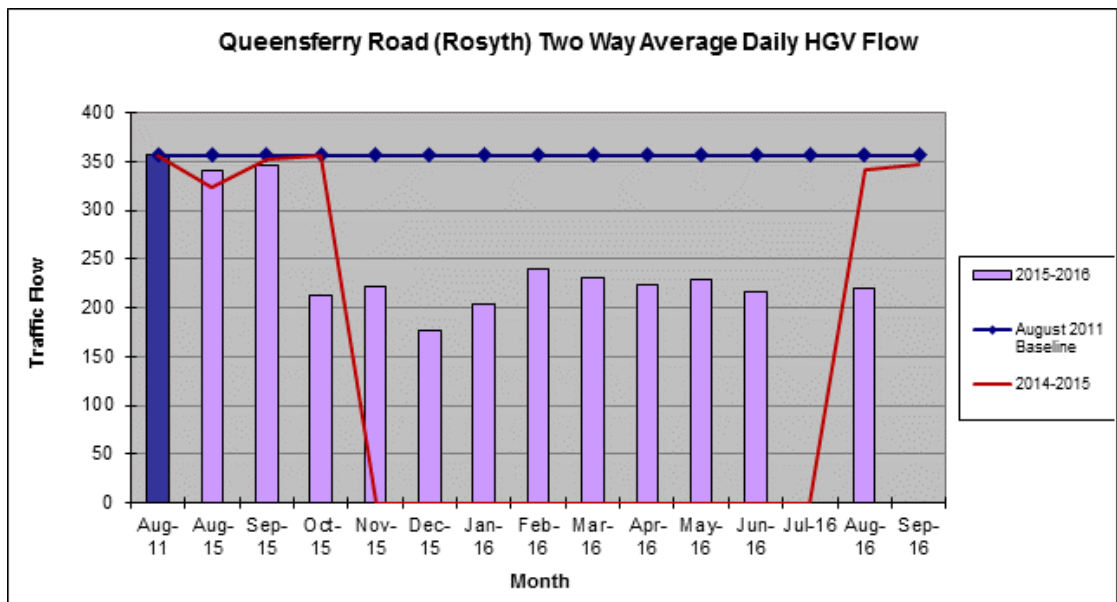
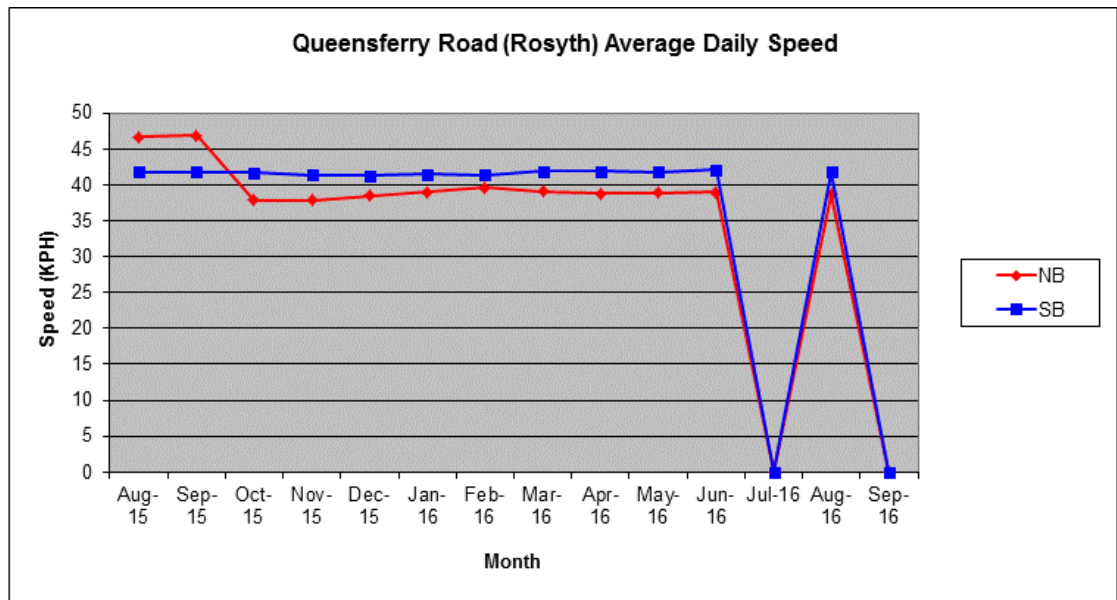


Figure 6-20 Monthly Two Way HGV Traffic Flows on the Queensferry Road (Rosyth)

### 6.3.4 Monthly Average All Vehicles Traffic Speeds

**Table 6-12 Site: JTC00579 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00579	Queensferry Road (Rosyth)	Aug-15	47	42
		Sep-15	47	42
		Oct-15	38	42
		Nov-15	38	41
		Dec-15	38	41
		Jan-16	39	41
		Feb-16	40	41
		Mar-16	39	42
		Apr-16	39	42
		May-16	39	42
		Jun-16	39	42
		Jul-16	No Data	No Data
		Aug-16	39	42
		Sep-16	No Data	No Data



**Figure 6-21 Average Monthly Traffic Speeds (KPH) on the Queensferry Road (Rosyth)**

## 6.4 Traffic Counter JTC00580 - Castle Road (Rosyth)

### 6.4.1 Monthly Average Traffic Flows

**Table 6-13 Site: JTC00580 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00580	Castle Road (Rosyth)	Aug-11	7,114	3,103	10,217
		Aug-15	8,198	3,046	11,244
		Sep-15	8,513	3,333	11,847
		Oct-15	7,953	3,142	11,096
		Nov-15	7,733	3,129	10,861
		Dec-15	No Data	No Data	No Data
		Jan-16	7,042	2,947	9,988
		Feb-16	8,204	3,259	11,462
		Mar-16	8,124	3,371	11,496
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	9,137	3,588	12,726
		Jul-16	7,945	3,022	10,967
		Aug-16	8,824	3,368	12,192
		Sep-16	No Data	No Data	No Data
		<b>Annual Average</b>	<b>8,094</b>	<b>3,204</b>	<b>11,299</b>

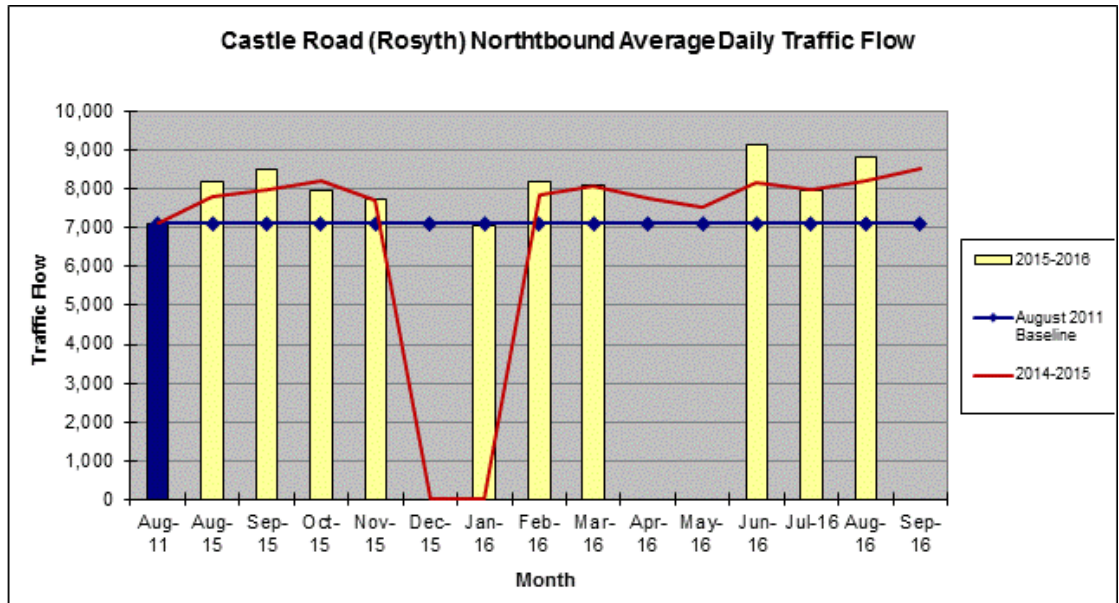


Figure 6-22 Monthly AADTs on the Castle Road (Rosyth)

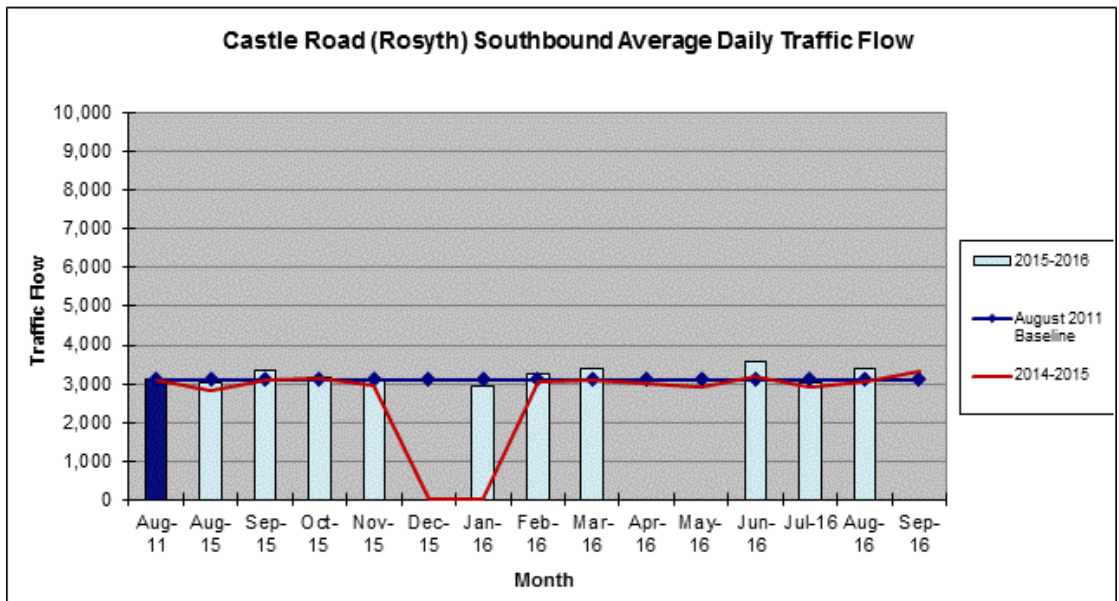


Figure 6-23 Monthly AADTs on the Castle Road (Rosyth)

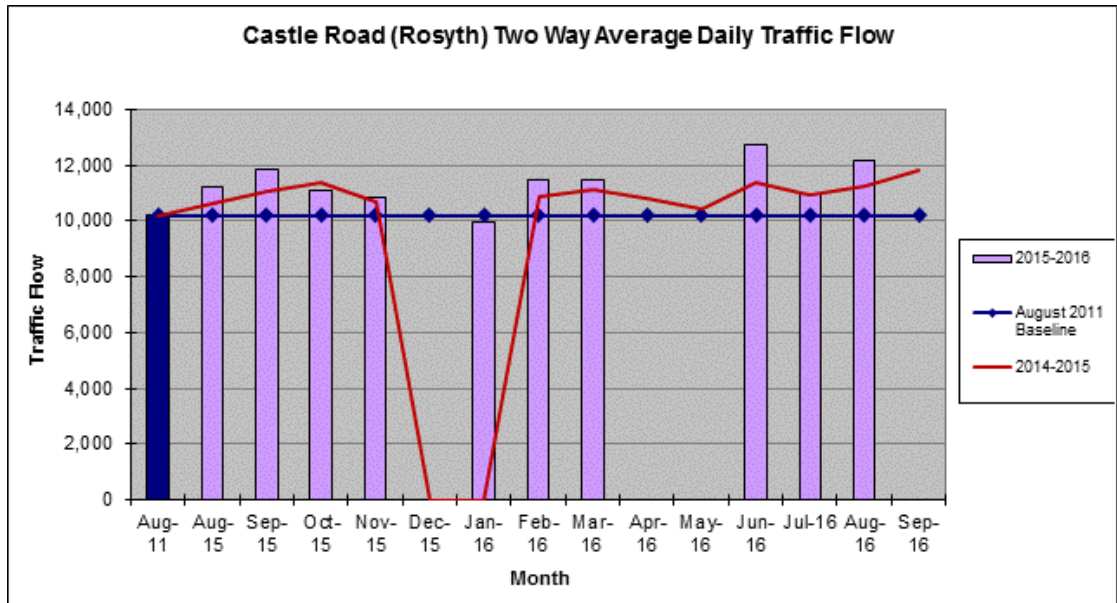


Figure 6-24 Monthly Two Way Daily Traffic Flows on the Castle Road (Rosyth)

### 6.4.2 Monthly Average AM and PM Peak Traffic Flows

Table 6-14 Site: JTC00580 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00580	Castle Road (Rosyth)	Aug-11	1,970	2,408
		Aug-15	1,635	2,402
		Sep-15	2,215	2,854
		Oct-15	2,016	2,795
		Nov-15	2,028	2,767
		Dec-15	No Data	No Data
		Jan-16	1,743	2,540
		Feb-16	2,046	2,795
		Mar-16	2,089	2,816
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	2,346	3,110
		Jul-16	1,768	2,716
		Aug-16	2,150	3,066
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>1,987</b>	<b>2,755</b>	



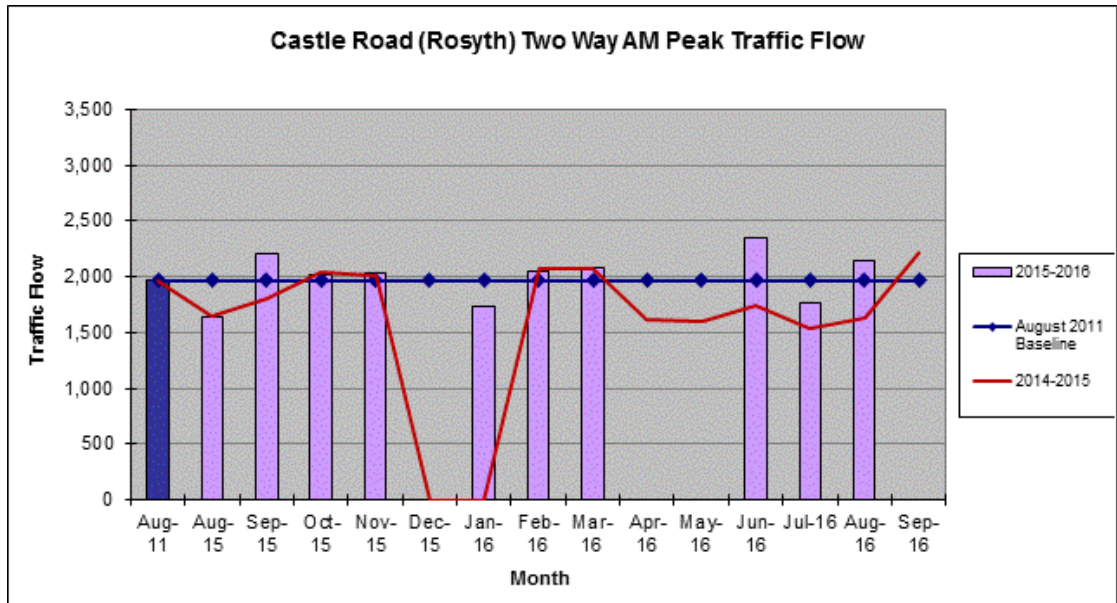


Figure 6-25 Monthly Two Way AM Peak Flows on the Castle Road (Rosyth)

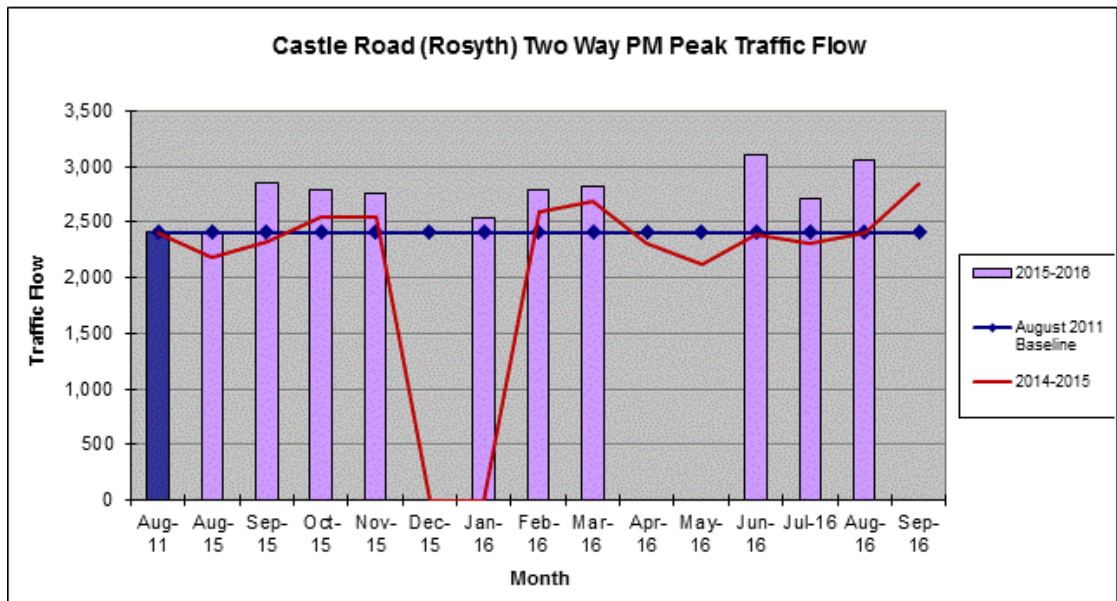


Figure 6-26 Monthly Two Way PM Peak Flows on the Castle Road (Rosyth)

### 6.4.3 Monthly Average HGV Flows

Table 6-15 Site: JTC00580 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00580	Castle Road (Rosyth)	Aug-11	109
		Aug-15	175
		Sep-15	193
		Oct-15	178
		Nov-15	168
		Dec-15	No Data
		Jan-16	222
		Feb-16	211
		Mar-16	188
		Apr-16	No Data
		May-16	No Data
		Jun-16	202
		Jul-16	171
		Aug-16	191
		Sep-16	No Data

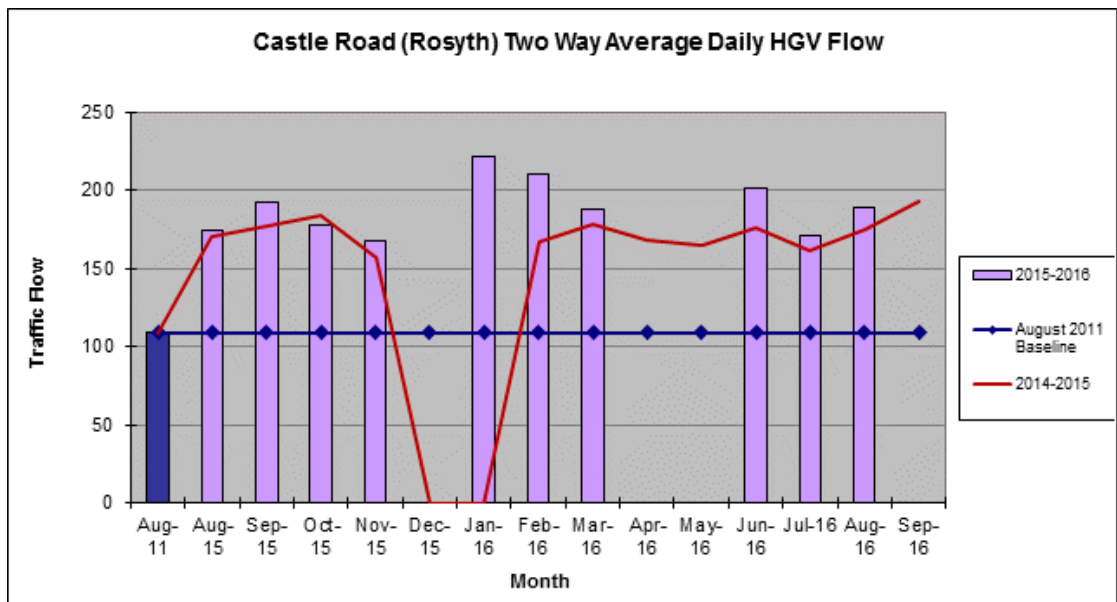
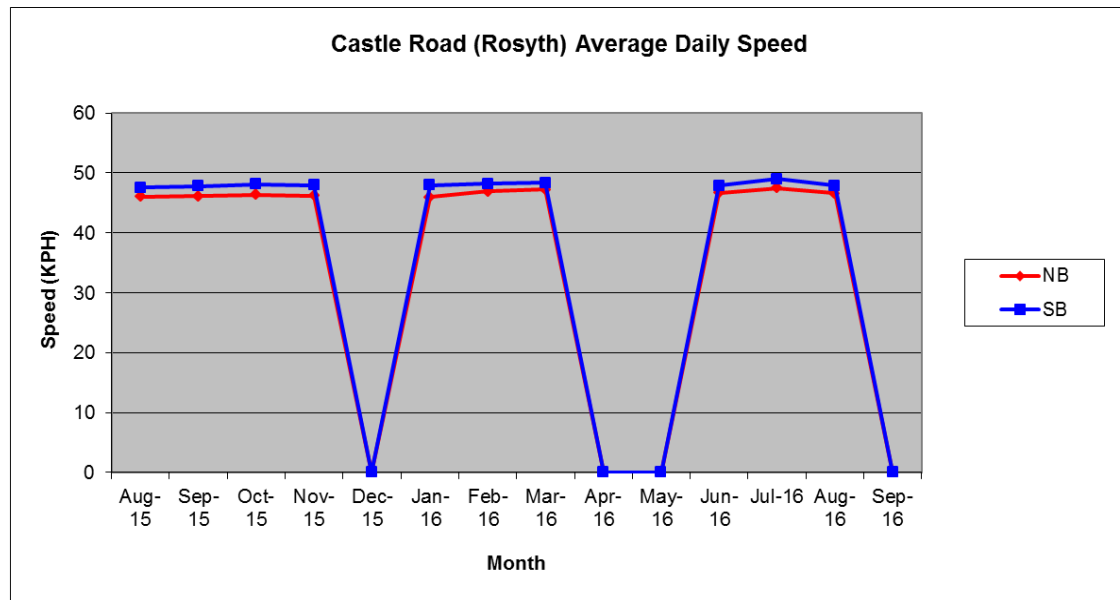


Figure 6-27 Monthly Two Way HGV Traffic Flows on the Castle Road (Rosyth)

### 6.4.4 Monthly Average All Vehicles Traffic Speeds

**Table 6-16 Site: JTC00580 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00580	Castle Road (Rosyth)	Aug-15	46	48
		Sep-15	46	48
		Oct-15	46	48
		Nov-15	46	48
		Dec-15	No Data	No Data
		Jan-16	46	48
		Feb-16	47	48
		Mar-16	47	48
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	47	48
		Jul-16	47	49
		Aug-16	47	48
		Sep-16	No Data	No Data



**Figure 6-28 Average Monthly Traffic Speeds (KPH) on the Castle Road (Rosyth)**

## 6.5 Traffic Counter JTC00585 - Sanderling Way (Dunfermline)

Summary of statistics between August 2015 and September 2016:

- Traffic flows are consistent with the previous monitoring period and higher than the 2011 baseline.

### 6.5.1 Monthly Average Traffic Flows

**Table 6-17 Site: JTC00585 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00585	Sanderling Way (Dunfermline)	Aug-11	7,137	7,296	14,434
		Aug-15	7,886	8,128	16,014
		Sep-15	7,733	8,000	15,733
		Oct-15	7,998	8,298	16,297
		Nov-15	8,305	8,633	16,939
		Dec-15	8,307	8,514	16,821
		Jan-16	7,321	7,567	14,888
		Feb-16	8,125	8,463	16,587
		Mar-16	8,250	8,625	16,875
		Apr-16	8,383	8,630	17,012
		May-16	8,333	8,622	16,955
		Jun-16	8,197	8,487	16,684
		Jul-16	8,560	8,610	17,169
		Aug-16	8,855	8,995	17,850
		Sep-16	8,318	8,624	16,942
		<b>Annual Average</b>	<b>8,117</b>	<b>8,381</b>	<b>16,498</b>

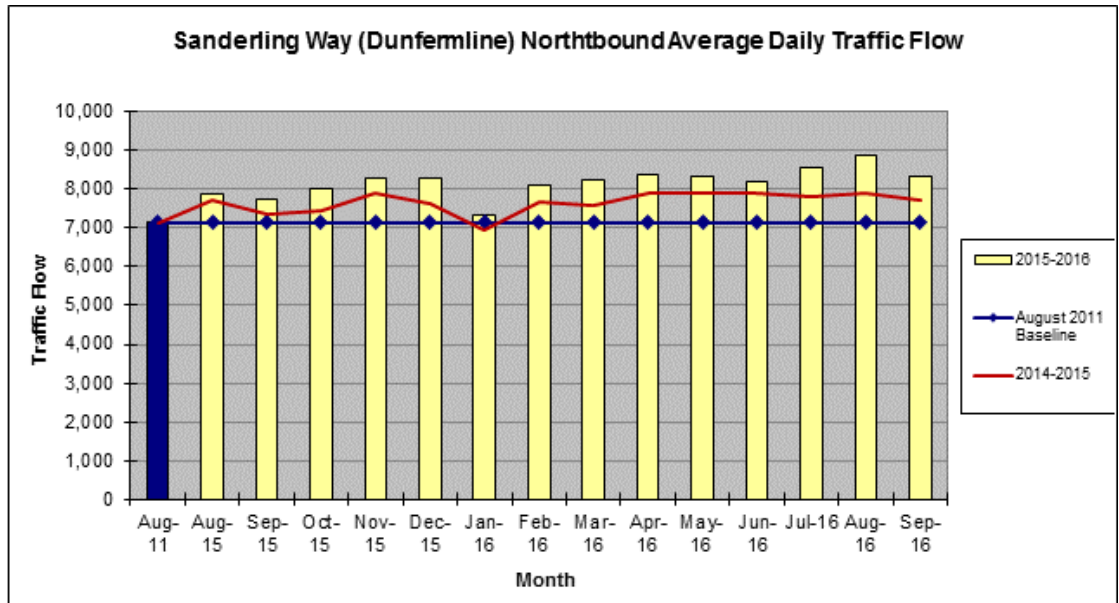


Figure 6-29 Monthly AADTs on the Sanderling Way (Dunfermline)

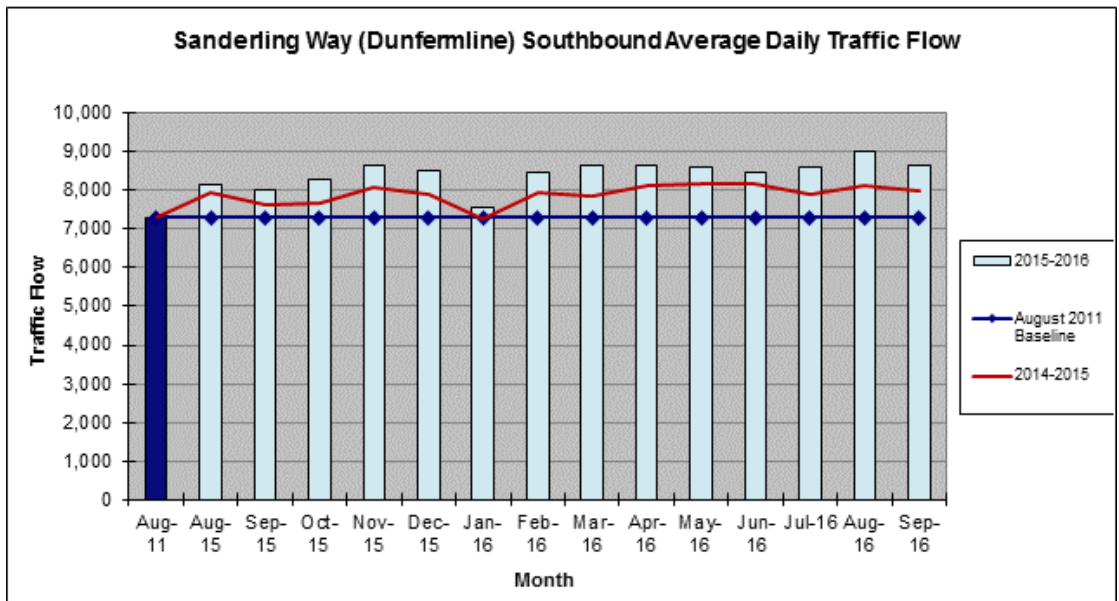


Figure 6-30 Monthly AADTs on the Sanderling Way (Dunfermline)

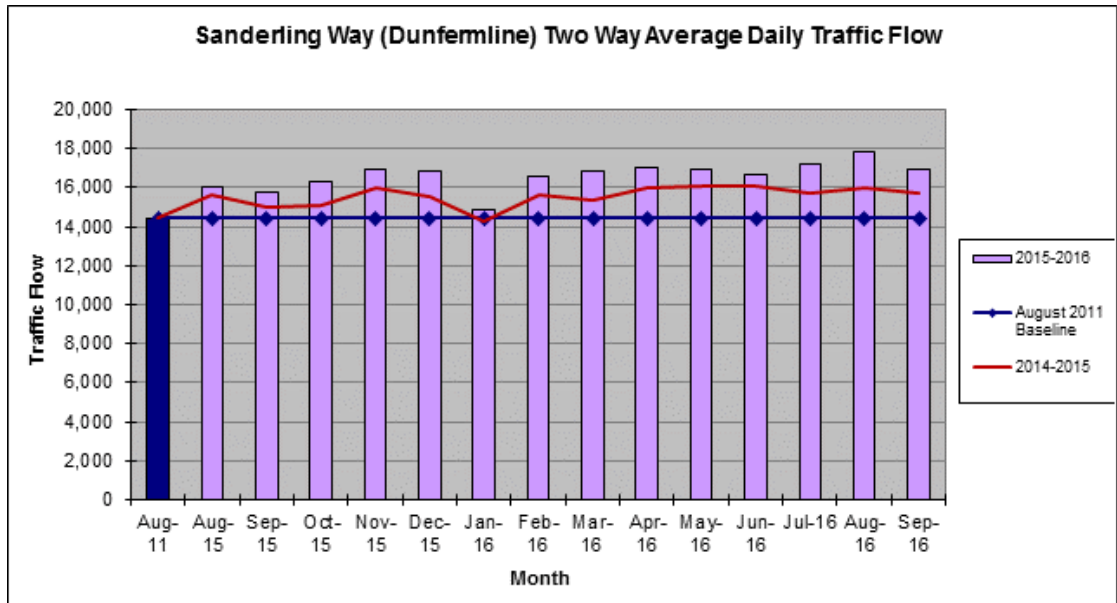


Figure 6-31 Monthly Two Way Daily Traffic Flows on the Sanderling Way (Dunfermline)

### 6.5.2 Monthly Average AM and PM Peak Traffic Flows

Table 6-18 Site: JTC00585 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00585	Sanderling Way (Dunfermline)	Aug-11	1,880	3,658
		Aug-15	2,129	4,135
		Sep-15	2,399	4,146
		Oct-15	2,196	4,053
		Nov-15	2,355	3,982
		Dec-15	2,353	3,909
		Jan-16	1,837	3,731
		Feb-16	2,194	4,075
		Mar-16	2,280	4,105
		Apr-16	2,306	4,285
		May-16	2,423	4,279
		Jun-16	2,457	4,205
		Jul-16	2,188	4,243
		Aug-16	2,538	4,523
		Sep-16	2,601	4,342
	<b>Annual Average</b>	<b>2,260</b>	<b>4,096</b>	

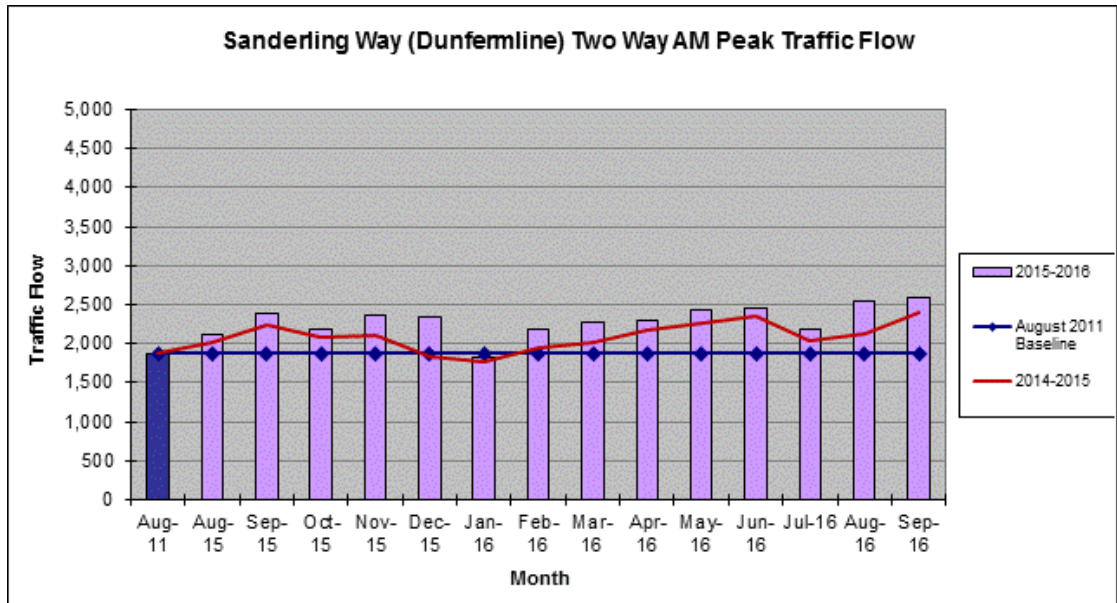


Figure 6-32 Monthly Two Way AM Peak Flows on the Sanderling Way (Dunfermline)

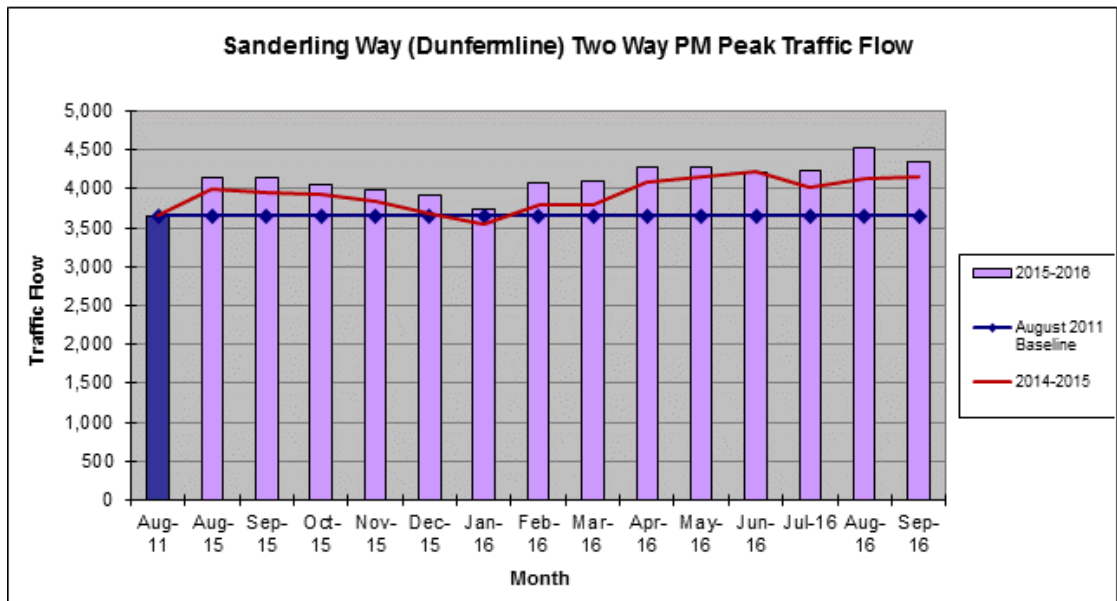


Figure 6-33 Monthly Two Way PM Peak Flows on the Sanderling Way (Dunfermline)

### 6.5.3 Monthly Average HGV Flows

Table 6-19 Site: JTC00585 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00585	Sanderling Way (Dunfermline)	Aug-11	232
		Aug-15	393
		Sep-15	428
		Oct-15	439
		Nov-15	518
		Dec-15	521
		Jan-16	311
		Feb-16	339
		Mar-16	386
		Apr-16	376
		May-16	378
		Jun-16	406
		Jul-16	406
		Aug-16	380
		Sep-16	372
		<b>Annual Average</b>	<b>408</b>

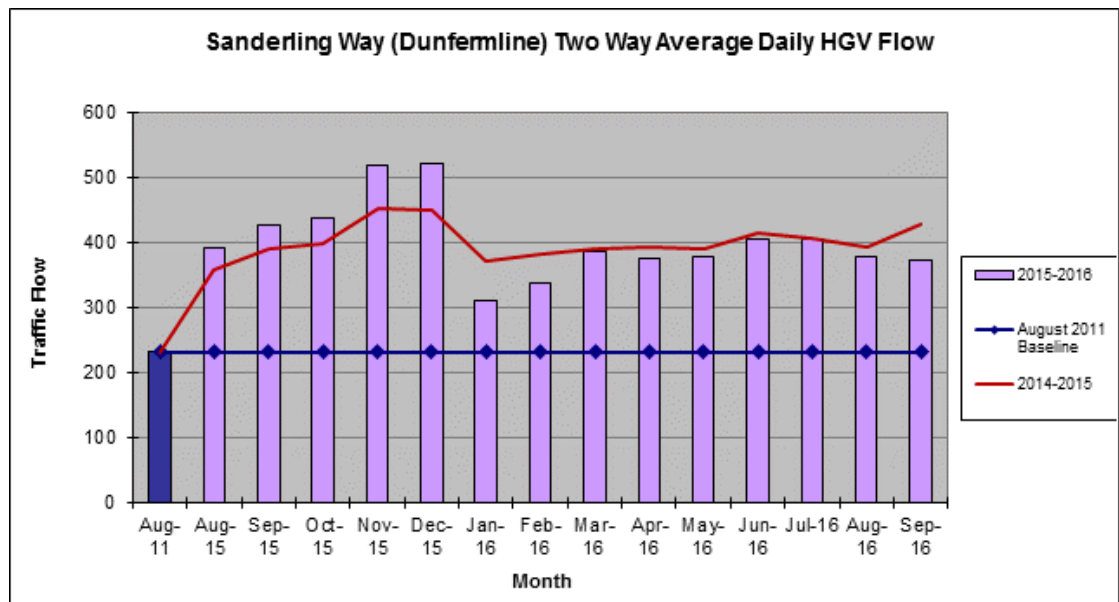


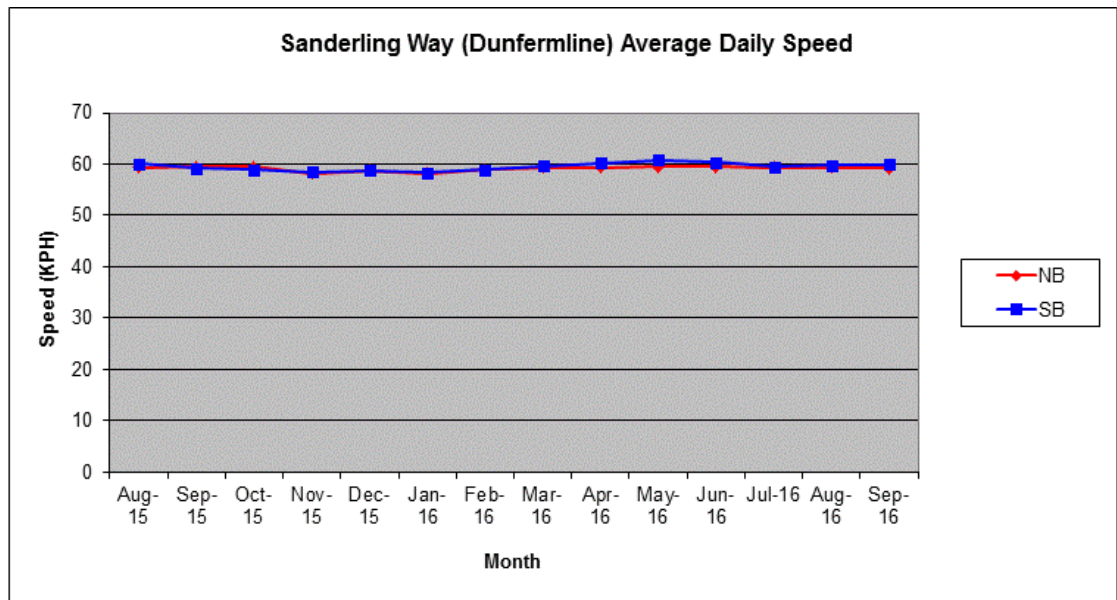
Figure 6-34 Monthly Two Way HGV Traffic Flows on the Sanderling Way (Dunfermline)



### 6.5.4 Monthly Average All Vehicles Traffic Speeds

**Table 6-20 Site: JTC00585 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00585	Sanderling Way (Dunfermline)	Aug-15	59	60
		Sep-15	60	59
		Oct-15	59	59
		Nov-15	58	58
		Dec-15	59	59
		Jan-16	58	58
		Feb-16	59	59
		Mar-16	59	60
		Apr-16	59	60
		May-16	59	61
		Jun-16	60	60
		Jul-16	59	60
		Aug-16	59	60
		Sep-16	59	60



**Figure 6-35 Average Monthly Traffic Speeds (KPH) on the Sanderling Way (Dunfermline)**

## 6.6 Traffic Counter JTC00587 - Ferry Toll Road (Rosyth)

Summary of statistics between August 2015 and September 2016:

- Data has been intermittent throughout the monitoring period, with no data recorded at all in some months, and only a limited number of reliable days recorded in others.

### 6.6.1 Monthly Average Traffic Flows

**Table 6-21 Site: JTC00587 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	NB	SB	Two Way
JTC00587	Ferry Toll Road (Rosyth)	Aug-11	2,033	2,780	4,814
		Aug-15	No Data	No Data	No Data
		Sep-15	1,561	1,765	3,326
		Oct-15	1,745	1,838	3,584
		Nov-15	1,779	1,860	3,639
		Dec-15	No Data	No Data	No Data
		Jan-16	No Data	No Data	No Data
		Feb-16	No Data	No Data	No Data
		Mar-16	No Data	No Data	No Data
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	No Data	No Data	No Data
		Jul-16	No Data	No Data	No Data
		Aug-16	No Data	No Data	No Data
		Sep-16	No Data	No Data	No Data
		<b>Annual Average</b>	<b>1,695</b>	<b>1,821</b>	<b>3,516</b>

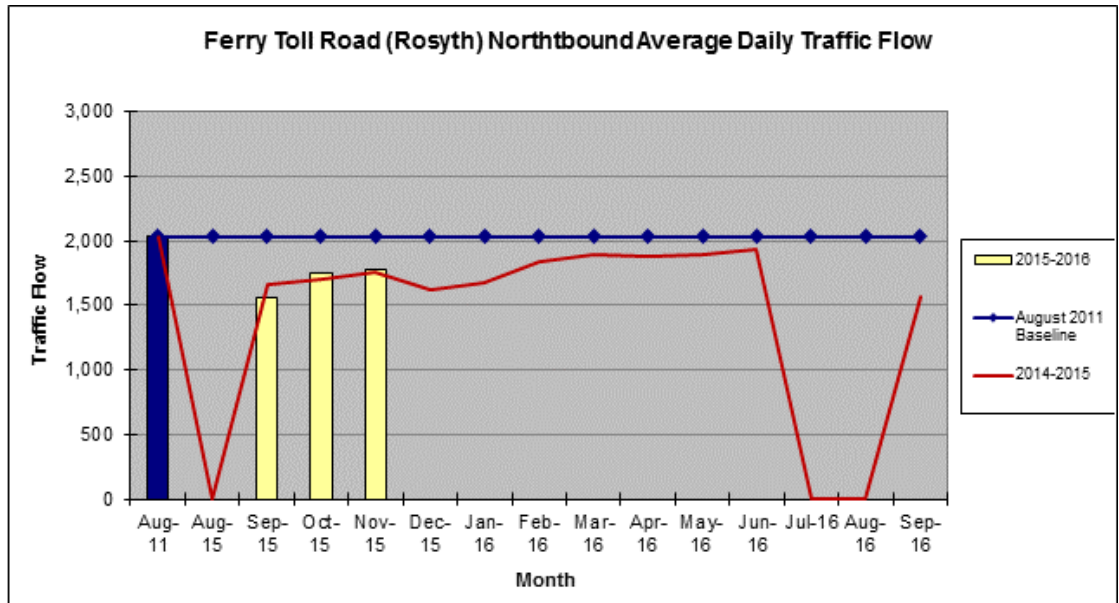


Figure 6-36 Monthly AADTs on the Ferry Toll Road (Rosyth)

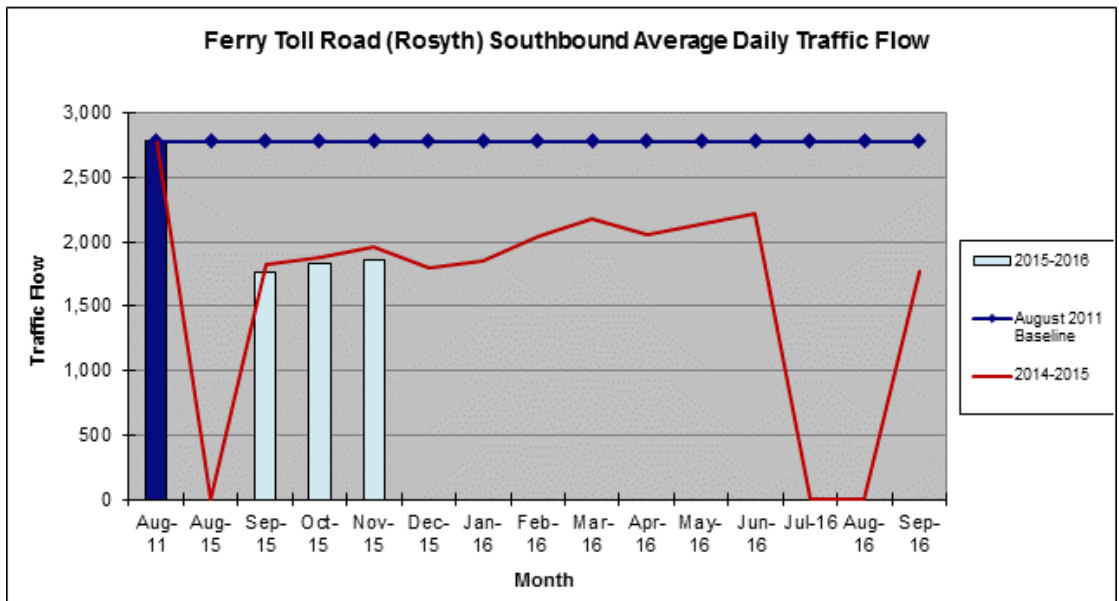


Figure 6-37 Monthly AADTs on the Ferry Toll Road (Rosyth)

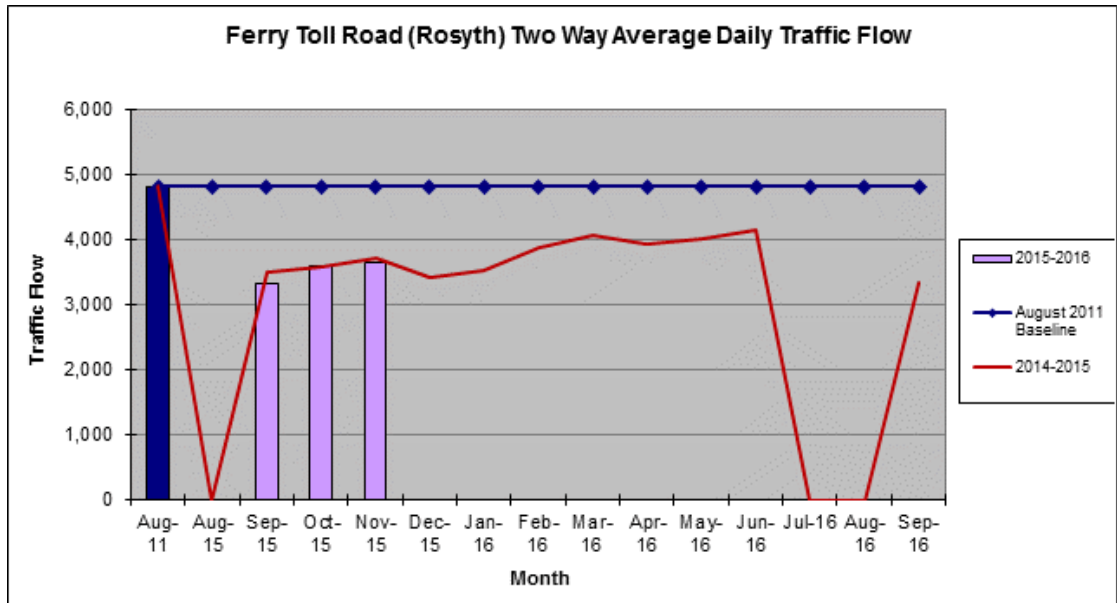


Figure 6-38 Monthly Two Way Daily Traffic Flows on the Ferry Toll Road (Rosyth)

### 6.6.2 Monthly Average AM and PM Peak Traffic Flows

Table 6-22 Site: JTC00587 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00587	Ferry Toll Road (Rosyth)	Aug-11	1,007	1,182
		Aug-15	No Data	No Data
		Sep-15	711	856
		Oct-15	784	893
		Nov-15	785	908
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
		<b>Annual Average</b>	<b>760</b>	<b>886</b>

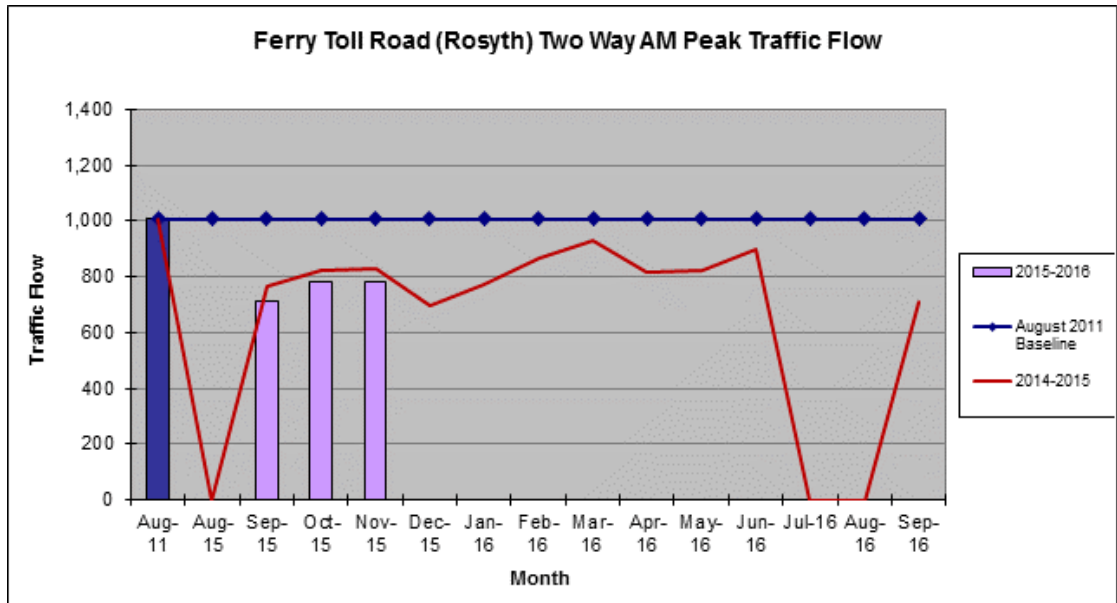


Figure 6-39 Monthly Two Way AM Peak Flows on the Ferry Toll Road (Rosyth)

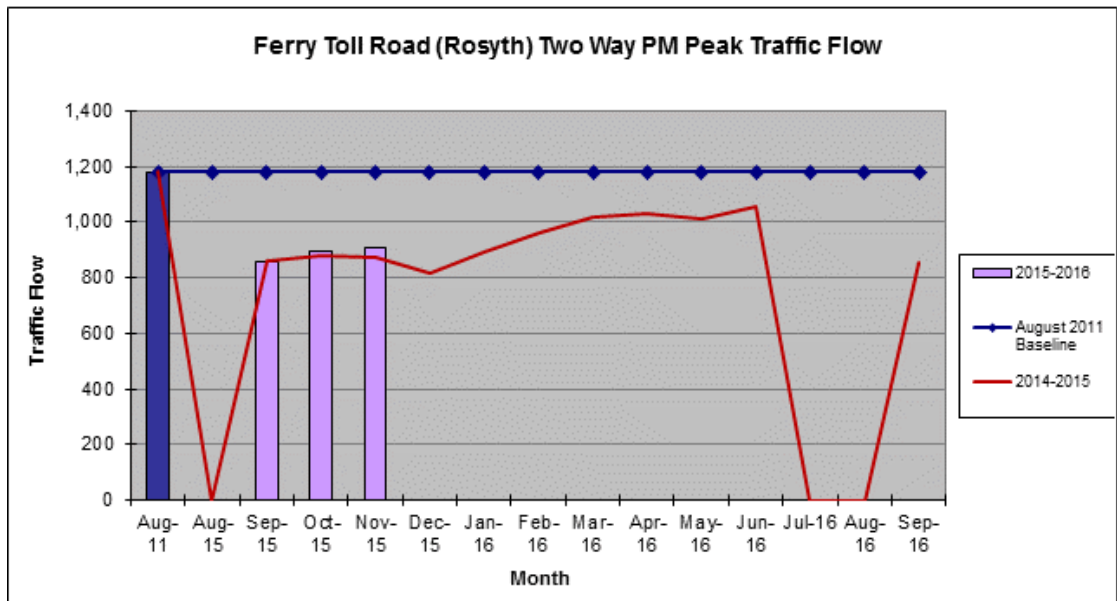


Figure 6-40 Monthly Two Way PM Peak Flows on the Ferry Toll Road (Rosyth)

### 6.6.3 Monthly Average HGV Flows

Table 6-23 Site: JTC00587 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00587	Ferry Toll Road (Rosyth)	Aug-11	9
		Aug-15	No Data
		Sep-15	5
		Oct-15	6
		Nov-15	5
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data
		<b>Annual Average</b>	

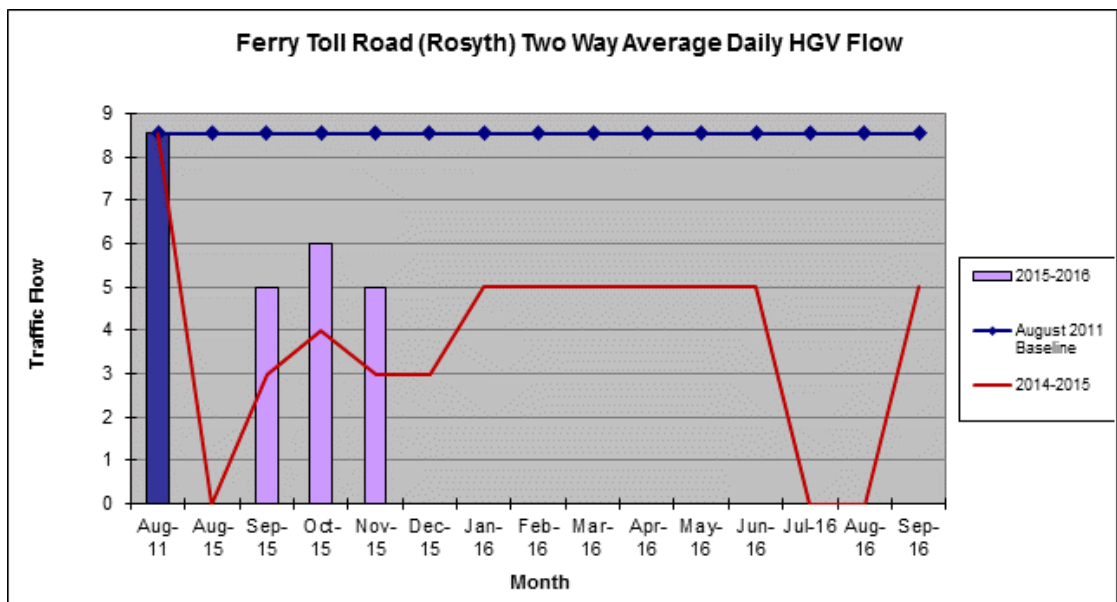
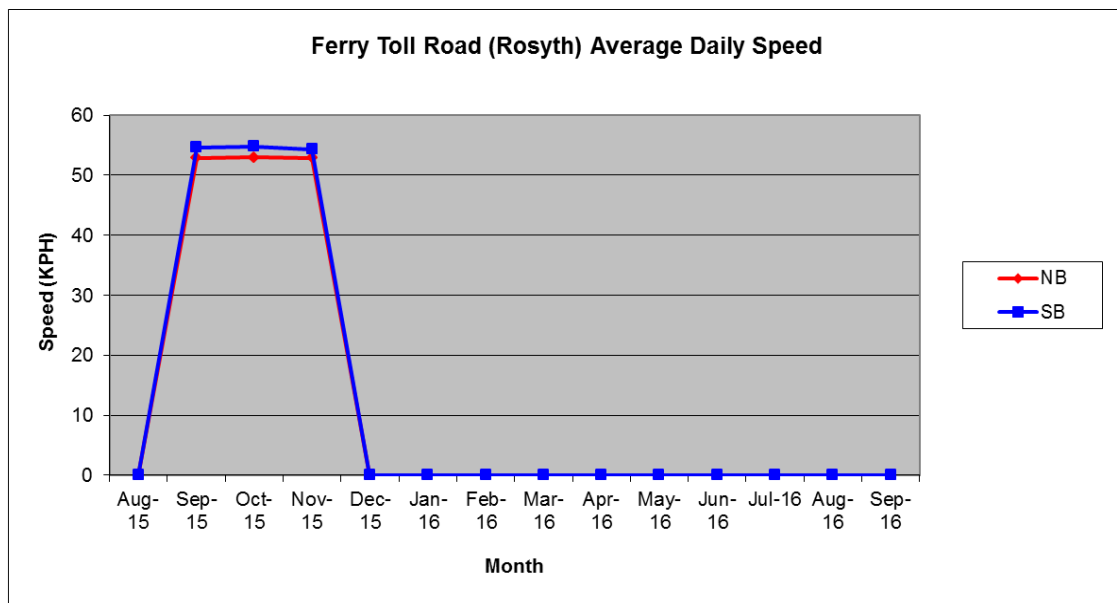


Figure 6-41 Monthly Two Way HGV Traffic Flows on the Ferry Toll Road (Rosyth)

### 6.6.4 Monthly Average All Vehicles Traffic Speeds

**Table 6-24 Site: JTC00587 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	NB	SB
JTC00587	Ferry Toll Road (Rosyth)	Aug-15	No Data	No Data
		Sep-15	53	55
		Oct-15	53	55
		Nov-15	53	54
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data



**Figure 6-42 Average Monthly Traffic Speeds (KPH) on the Ferry Toll Road (Rosyth)**

## 6.7 Traffic Counter JTC00588 - King Malcolm Drive (Rosyth)

Summary of statistics between August 2015 and September 2016:

- Counter changed from Euro6 vehicle classification system to CA10 classification system in April 2016, due to the NTDS system update (see section 2.3).

### 6.7.1 Monthly Average Traffic Flows

**Table 6-25 Site: JTC00588 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00588	King Malcolm Drive (Rosyth)	Aug-11	1,748	1,443	3,191
		Aug-15	3,857	4,125	7,982
		Sep-15	2,816	2,655	5,470
		Oct-15	2,555	2,300	4,855
		Nov-15	2,646	2,308	4,954
		Dec-15	1,343	1,134	2,477
		Jan-16	2,084	1,966	4,051
		Feb-16	2,243	2,105	4,348
		Mar-16	2,318	2,184	4,502
		Apr-16	1,900	1,871	3,772
		May-16	2,156	2,062	4,218
		Jun-16	2,458	2,310	4,768
		Jul-16	2,399	2,277	4,677
		Aug-16	2,207	2,073	4,280
		Sep-16	No Data	No Data	No Data
	<b>Annual Average</b>	<b>2,398</b>	<b>2,275</b>	<b>4,673</b>	



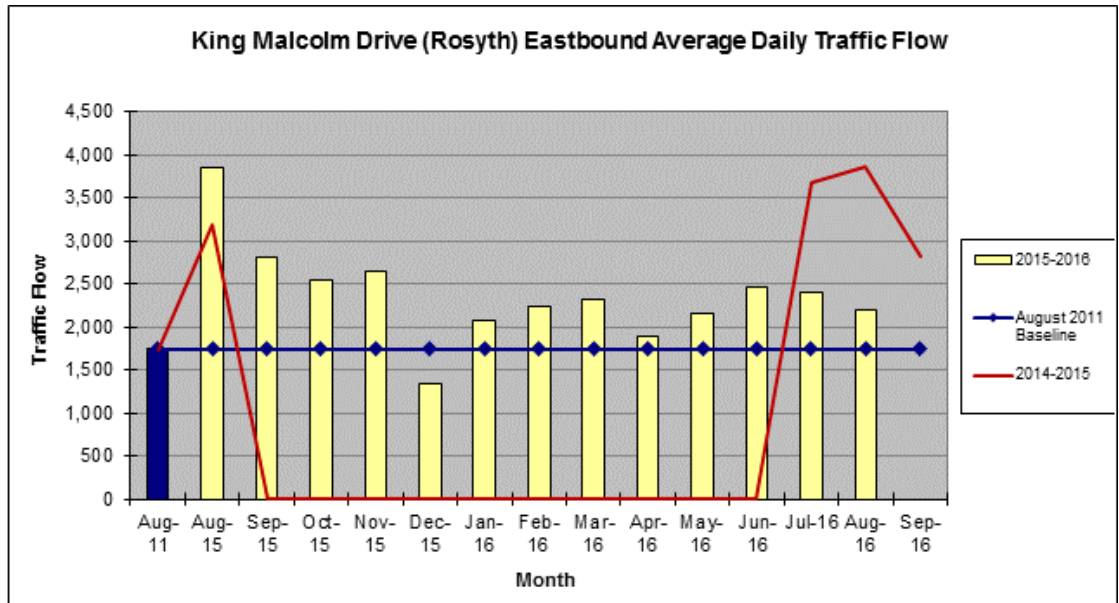


Figure 6-43 Monthly AADTs on the King Malcolm Drive (Rosyth)

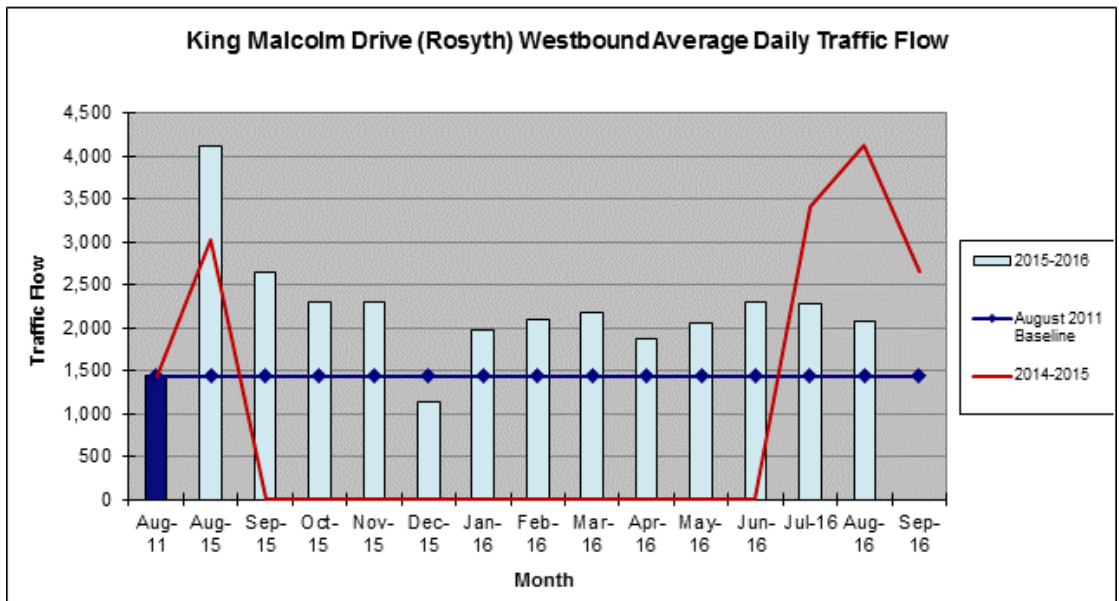


Figure 6-44 Monthly AADTs on the King Malcolm Drive (Rosyth)

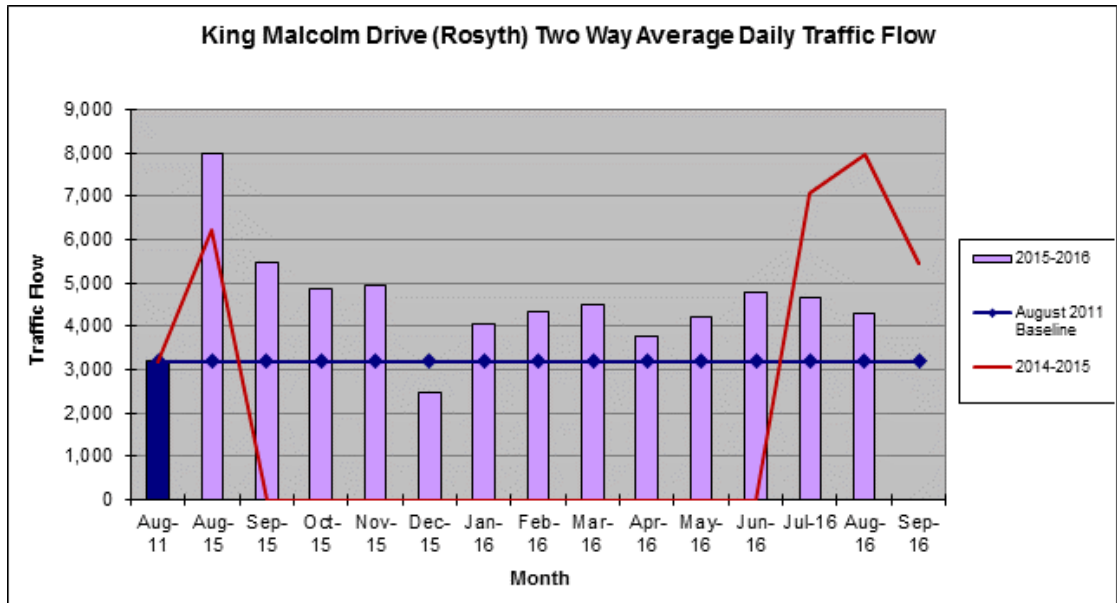


Figure 6-45 Monthly Two Way Daily Traffic Flows on the King Malcolm Drive (Rosyth)

### 6.7.2 Monthly Average AM and PM Peak Traffic Flows

Table 6-26 Site: JTC00588 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00588	King Malcolm Drive (Rosyth)	Aug-11	873	906
		Aug-15	1,570	2,138
		Sep-15	1,224	1,564
		Oct-15	1,050	1,402
		Nov-15	1,033	1,479
		Dec-15	513	622
		Jan-16	896	1,172
		Feb-16	934	1,170
		Mar-16	964	1,216
		Apr-16	1,125	914
		May-16	951	1,104
		Jun-16	1,001	1,348
		Jul-16	973	1,244
		Aug-16	888	1,130
Sep-16	No Data	No Data		
		<b>Annual Average</b>	<b>1,019</b>	<b>1,281</b>

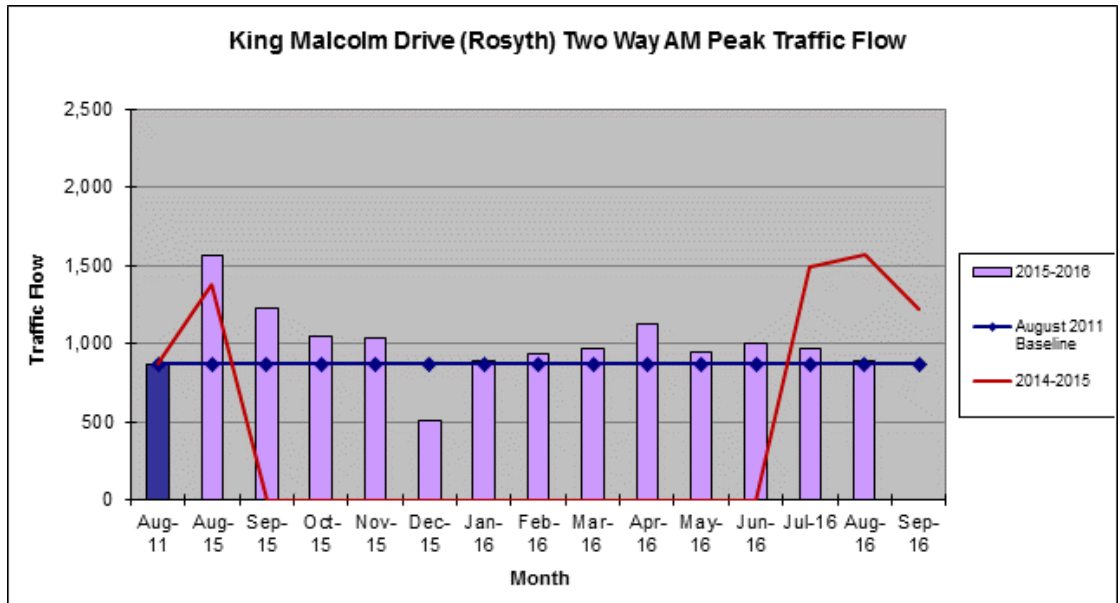


Figure 6-46 Monthly Two Way AM Peak Flows on the King Malcolm Drive (Rosyth)

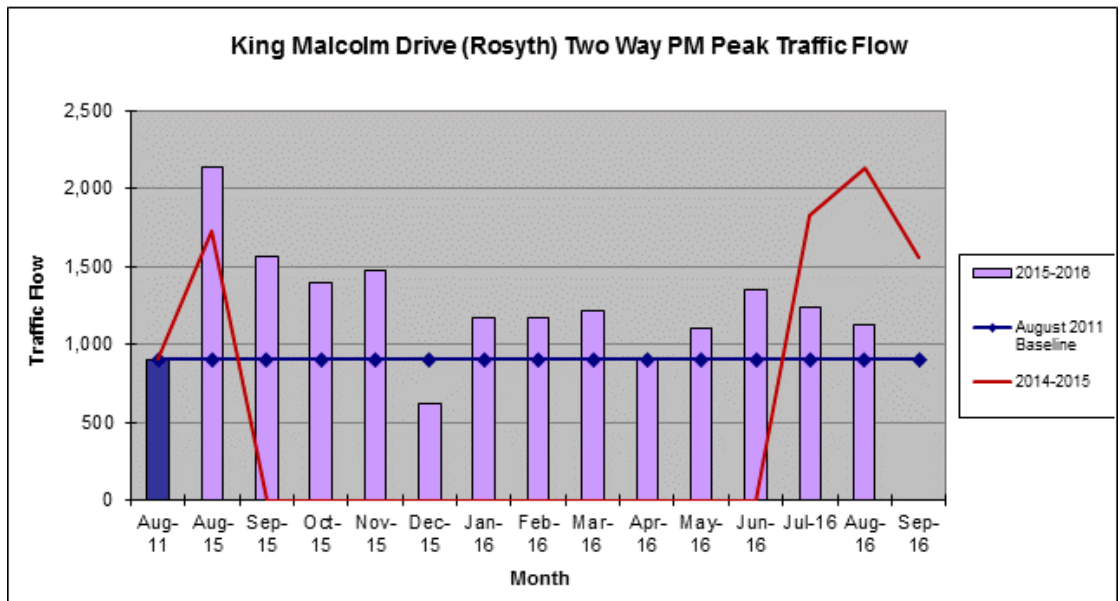


Figure 6-47 Monthly Two Way PM Peak Flows on the King Malcolm Drive (Rosyth)

### 6.7.3 Monthly Average HGV Flows

Table 6-27 Site: JTC00588 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00588	King Malcolm Drive (Rosyth)	Aug-11	156
		Aug-15	267
		Sep-15	253
		Oct-15	216
		Nov-15	203
		Dec-15	66
		Jan-16	48
		Feb-16	91
		Mar-16	191
		Apr-16	141
		May-16	149
		Jun-16	165
		Jul-16	174
		Aug-16	204
		Sep-16	No Data
		<b>Annual Average</b>	<b>164</b>

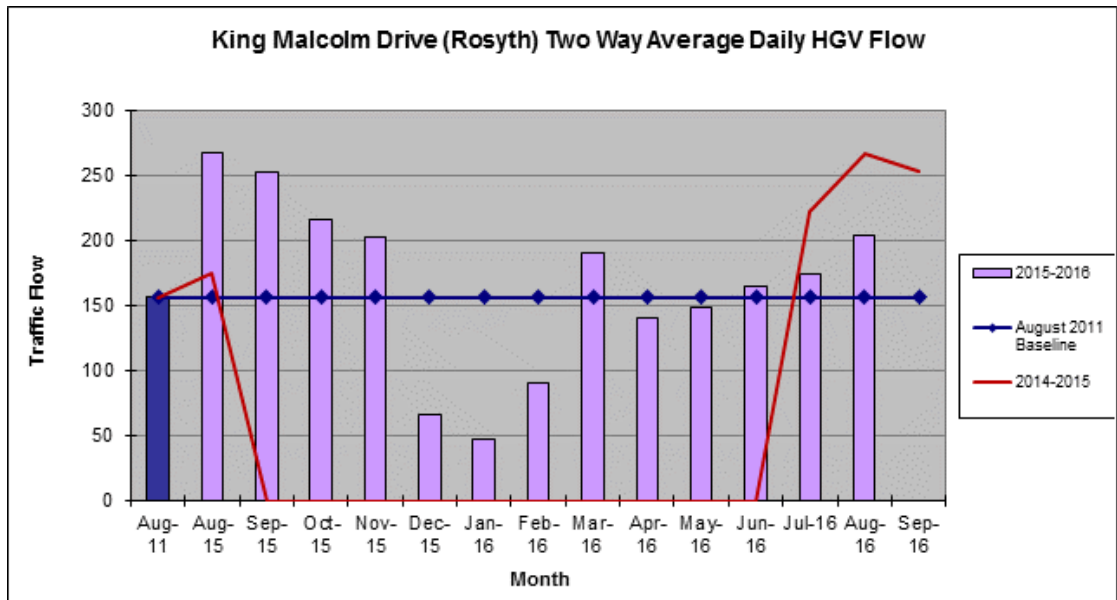
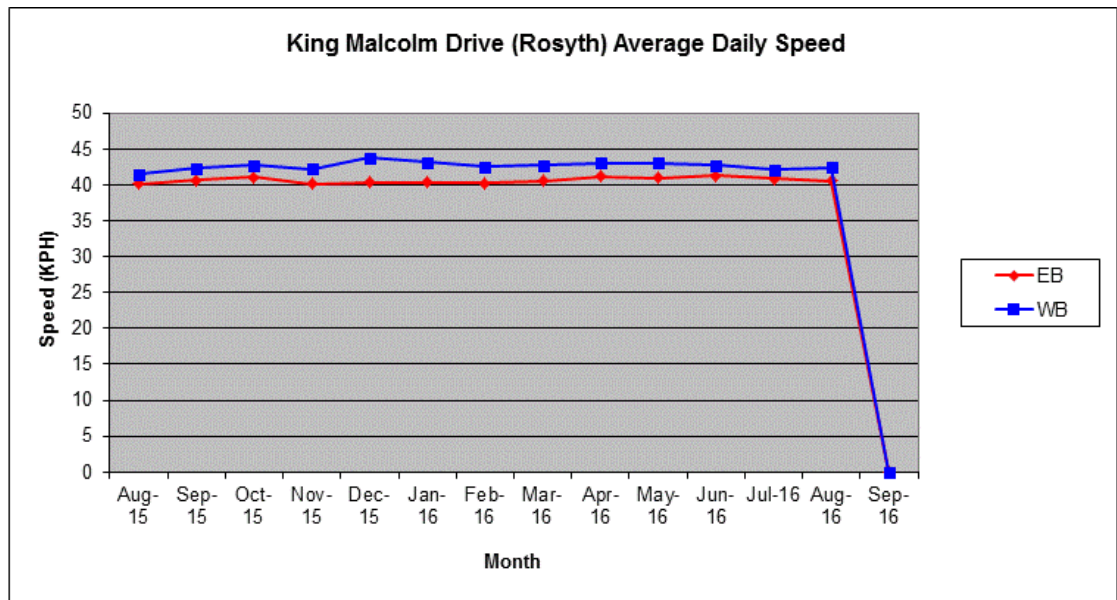


Figure 6-48 Monthly Two Way HGV Traffic Flows on the King Malcolm Drive (Rosyth)

### 6.7.4 Monthly Average All Vehicles Traffic Speeds

**Table 6-28 Site: JTC00588 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00588	King Malcolm Drive (Rosyth)	Aug-15	40	41
		Sep-15	41	42
		Oct-15	41	43
		Nov-15	40	42
		Dec-15	40	44
		Jan-16	40	43
		Feb-16	40	42
		Mar-16	40	43
		Apr-16	41	43
		May-16	41	43
		Jun-16	41	43
		Jul-16	41	42
		Aug-16	41	42
		Sep-16	No Data	No Data



**Figure 6-49 Average Monthly Traffic Speeds (KPH) on the King Malcolm Drive (Rosyth)**

## 6.8 Traffic Counter JTC00593 - Main Street West (Dalmeny)

Summary of statistics between August 2015 and September 2016:

- No data recorded since October 2015.

### 6.8.1 Monthly Average Traffic Flows

**Table 6-29 Site: JTC00593 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00593	Main Street West (Dalmeny)	Aug-11	518	372	890
		Aug-15	633	393	1,026
		Sep-15	639	399	1,038
		Oct-15	No Data	No Data	No Data
		Nov-15	No Data	No Data	No Data
		Dec-15	No Data	No Data	No Data
		Jan-16	No Data	No Data	No Data
		Feb-16	No Data	No Data	No Data
		Mar-16	No Data	No Data	No Data
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	No Data	No Data	No Data
		Jul-16	No Data	No Data	No Data
		Aug-16	No Data	No Data	No Data
		Sep-16	No Data	No Data	No Data
		<b>Annual Average</b>	<b>636</b>	<b>396</b>	<b>1,032</b>

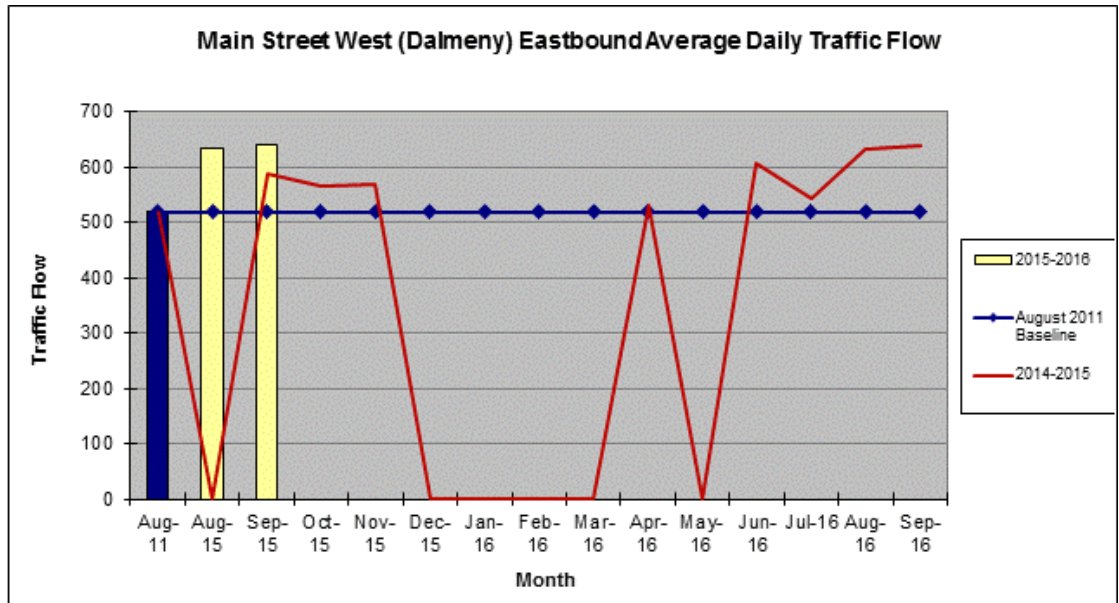


Figure 6-50 Monthly AADTs on the Main Street West (Dalmeny)

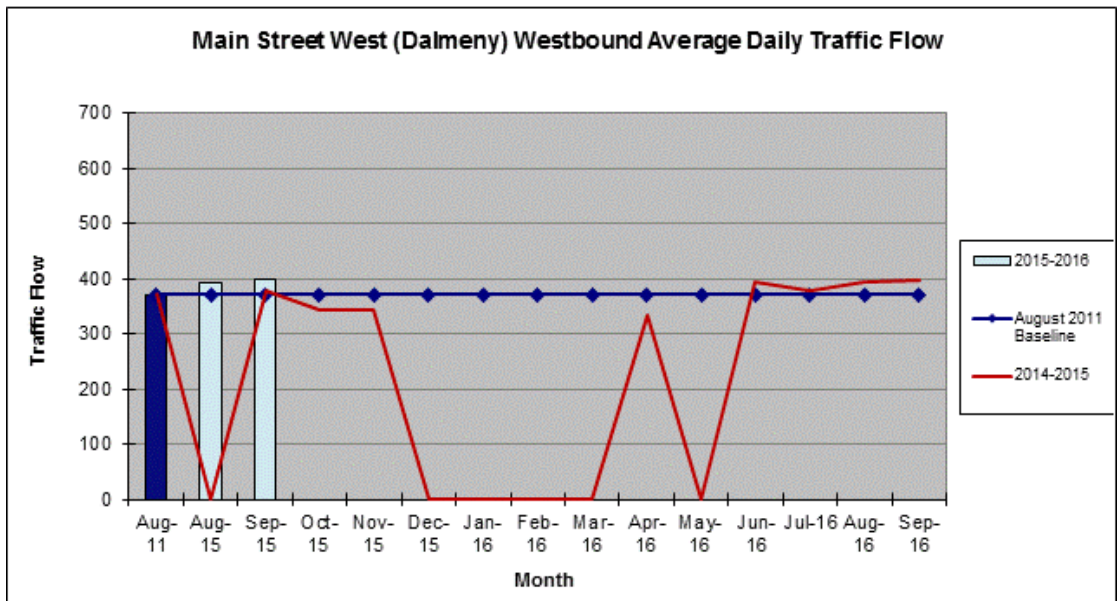


Figure 6-51 Monthly AADTs on the Main Street West (Dalmeny)

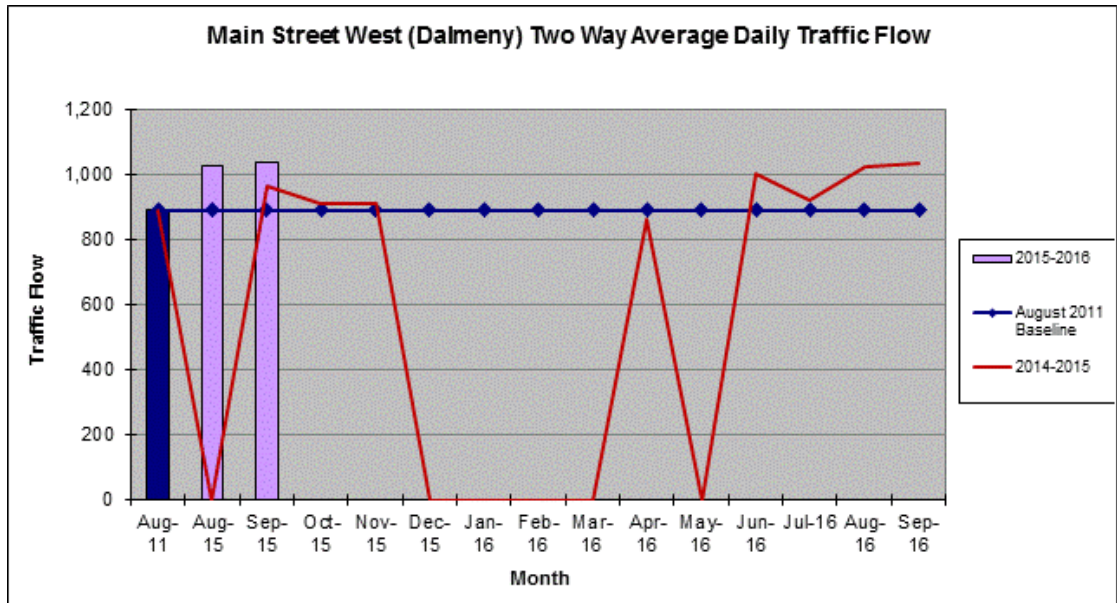


Figure 6-52 Monthly Two Way Daily Traffic Flows on the Main Street West (Dalmeny)

### 6.8.2 Monthly Average AM and PM Peak Traffic Flows

Table 6-30 Site: JTC00593 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00593	Main Street West (Dalmeny)	Aug-11	126	254
		Aug-15	138	344
		Sep-15	168	342
		Oct-15	No Data	No Data
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>153</b>	<b>343</b>	



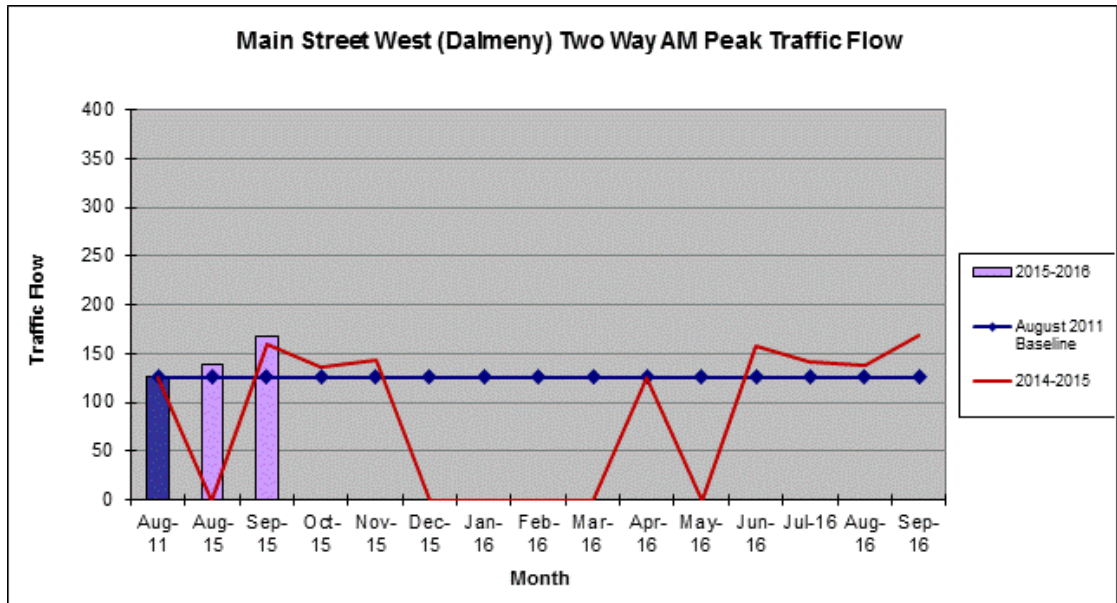


Figure 6-53 Monthly Two Way AM Peak Flows on the Main Street West (Dalmeny)

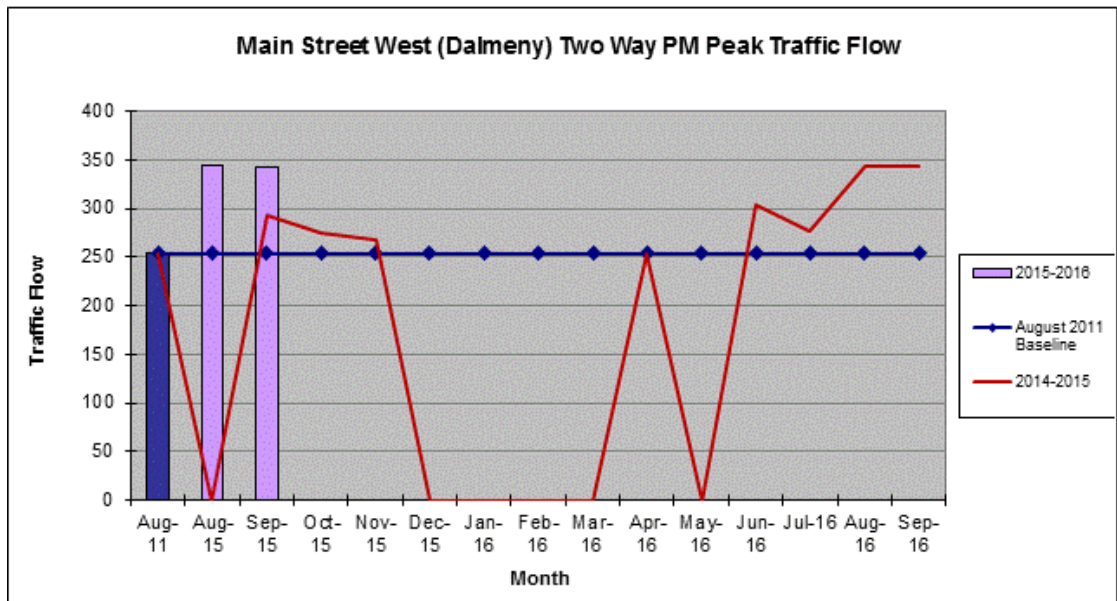


Figure 6-54 Monthly Two Way PM Peak Flows on the Main Street West (Dalmeny)

### 6.8.3 Monthly Average HGV Flows

Table 6-31 Site: JTC00593 Annual HGV Traffic Flows - August 2015 to September 2016

Counter	Location	Date	Two Way
JTC00593	Main Street West (Dalmeny)	Aug-11	59
		Aug-15	11
		Sep-15	16
		Oct-15	No Data
		Nov-15	No Data
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data

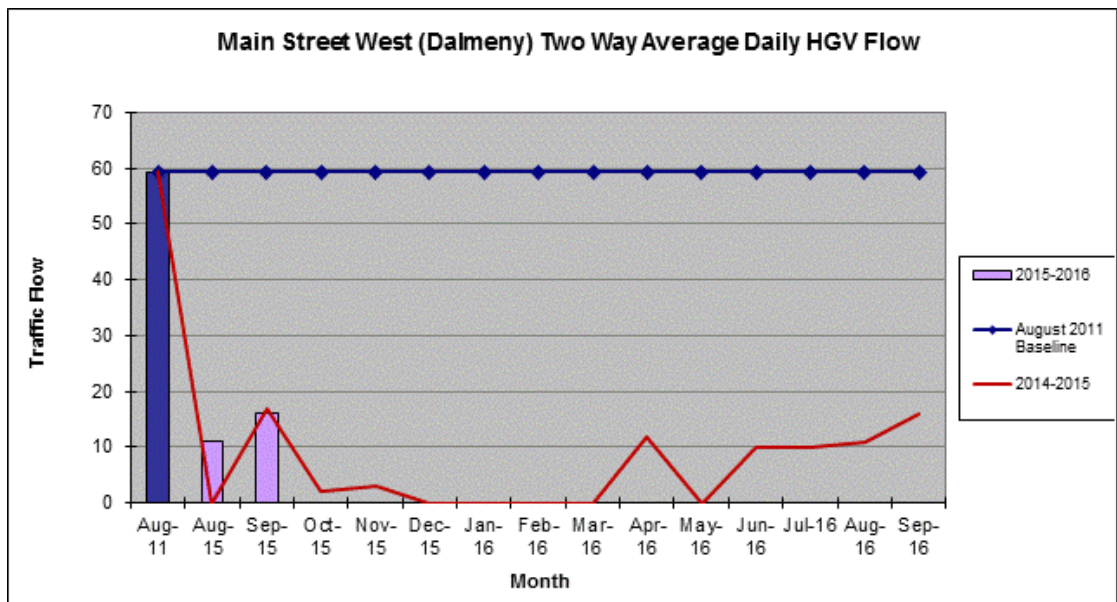
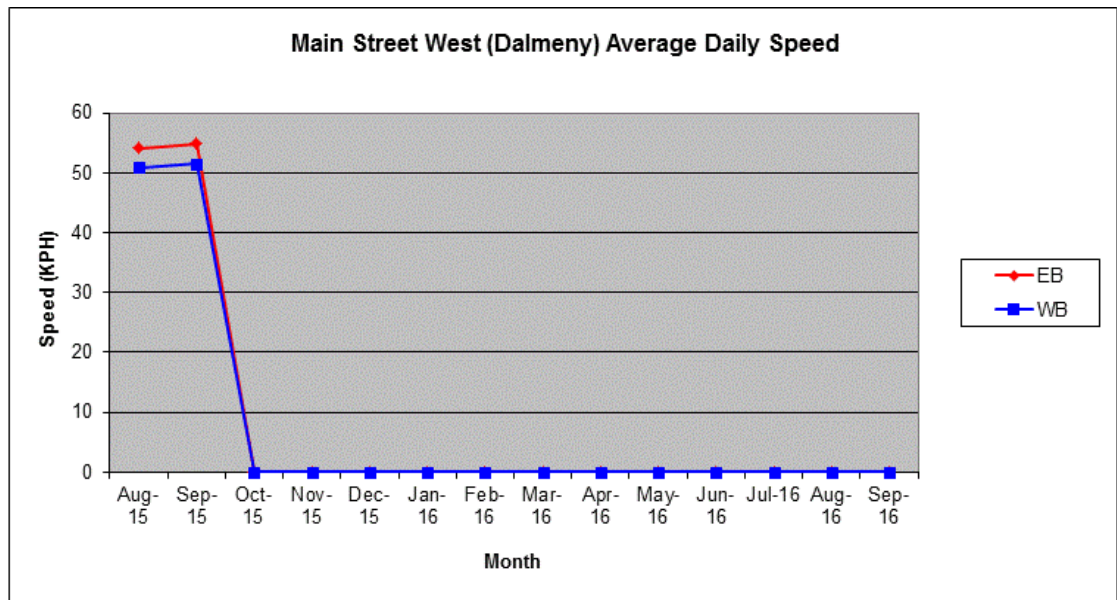


Figure 6-55 Monthly Two Way HGV Traffic Flows on the Main Street West (Dalmeny)

### 6.8.4 Monthly Average All Vehicles Traffic Speeds

**Table 6-32 Site: JTC00593 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00593	Main Street West (Dalmeny)	Aug-15	54	51
		Sep-15	55	51
		Oct-15	No Data	No Data
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data



**Figure 6-56 Average Monthly Traffic Speeds (KPH) on the Main Street West (Dalmeny)**

## 6.9 Traffic Counter JTC00596 - Society Road (South Queensferry)

### 6.9.1 Monthly Average Traffic Flows

**Table 6-33 Site: JTC00596 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00596	Society Road (South Queensferry)	Aug-11	756	672	1,427
		Aug-15	711	787	1,498
		Sep-15	673	749	1,422
		Oct-15	634	730	1,364
		Nov-15	637	766	1,404
		Dec-15	529	631	1,161
		Jan-16	540	623	1,162
		Feb-16	529	645	1,174
		Mar-16	556	746	1,302
		Apr-16	615	697	1,312
		May-16	670	749	1,419
		Jun-16	626	752	1,378
		Jul-16	588	690	1,278
		Aug-16	638	765	1,403
		Sep-16	608	777	1,385
	<b>Annual Average</b>	<b>609</b>	<b>714</b>	<b>1,323</b>	

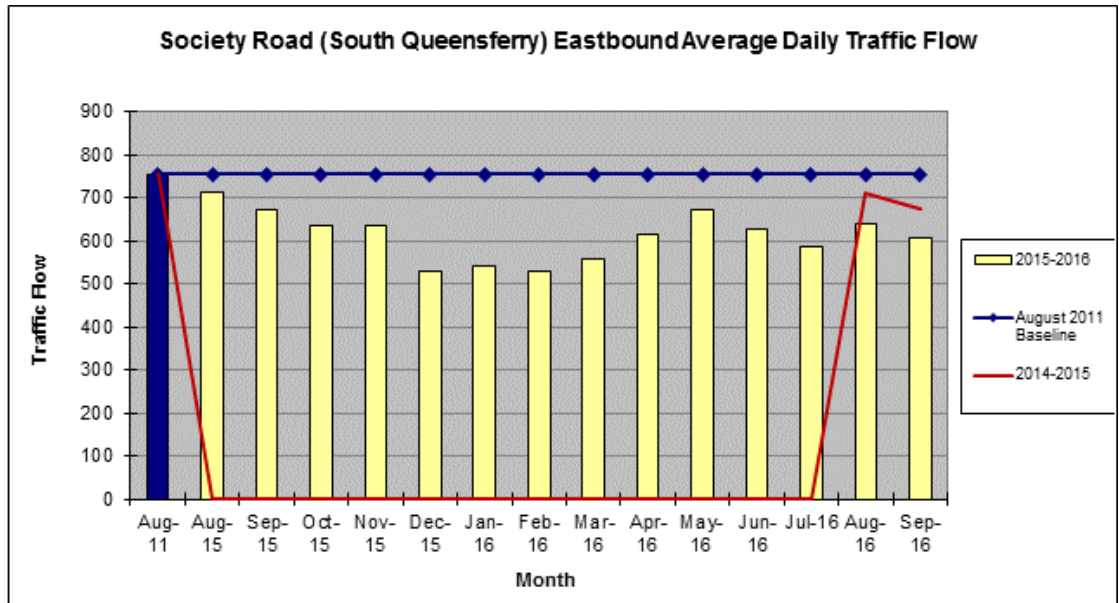


Figure 6-57 Monthly AADTs on the Society Road (South Queensferry)

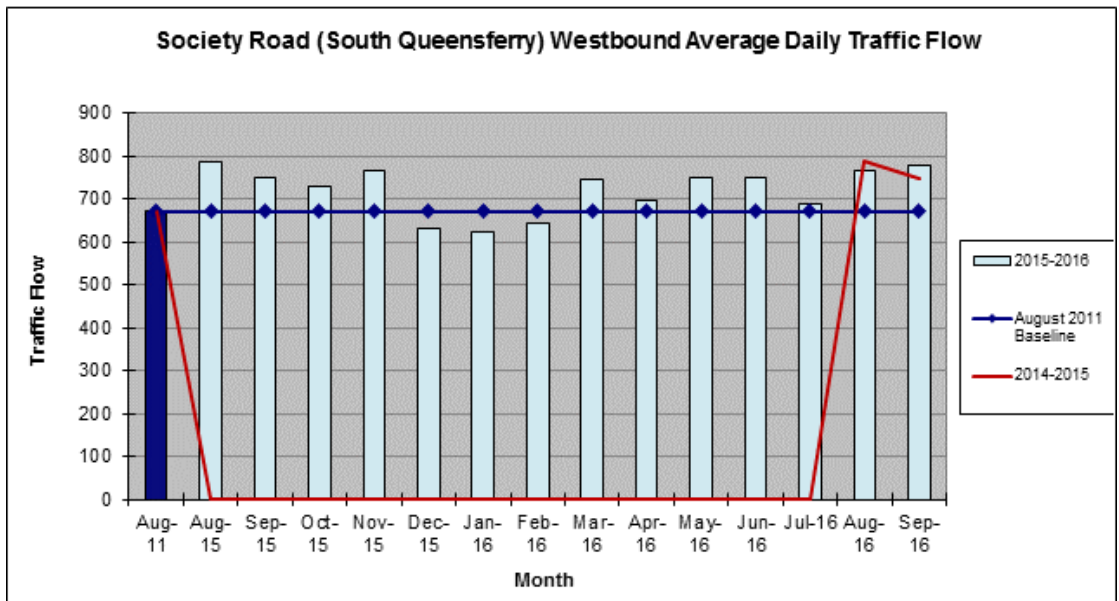


Figure 6-58 Monthly AADTs on the Society Road (South Queensferry)

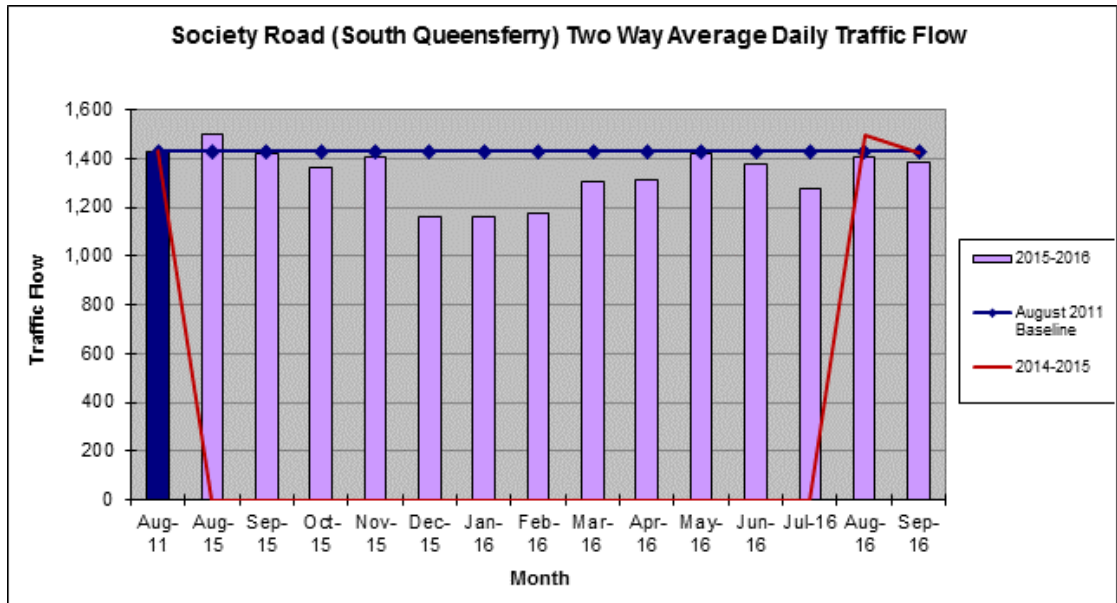


Figure 6-59 Monthly Two Way Daily Traffic Flows on the Society Road (South Queensferry)

### 6.9.2 Monthly Average AM and PM Peak Traffic Flows

Table 6-34 Site: JTC00596 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00596	Society Road (South Queensferry)	Aug-11	194	305
		Aug-15	237	308
		Sep-15	229	309
		Oct-15	237	275
		Nov-15	210	297
		Dec-15	173	242
		Jan-16	195	259
		Feb-16	179	267
		Mar-16	206	289
		Apr-16	223	267
		May-16	228	296
		Jun-16	233	285
		Jul-16	204	258
		Aug-16	236	296
		Sep-16	238	295
	<b>Annual Average</b>	<b>213</b>	<b>279</b>	

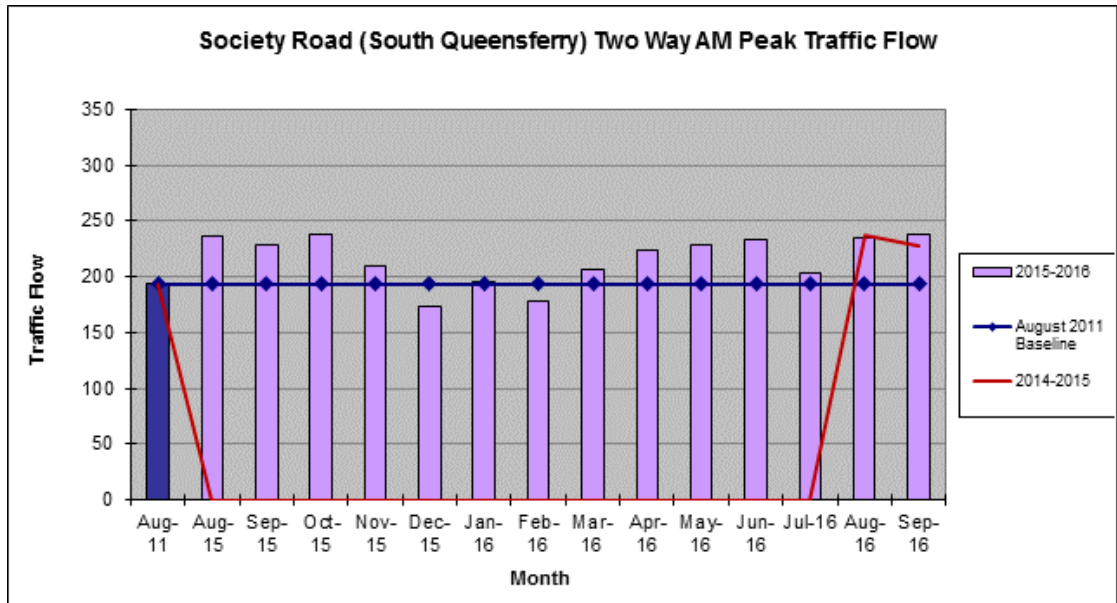


Figure 6-60 Monthly Two Way AM Peak Flows on the Society Road (South Queensferry)

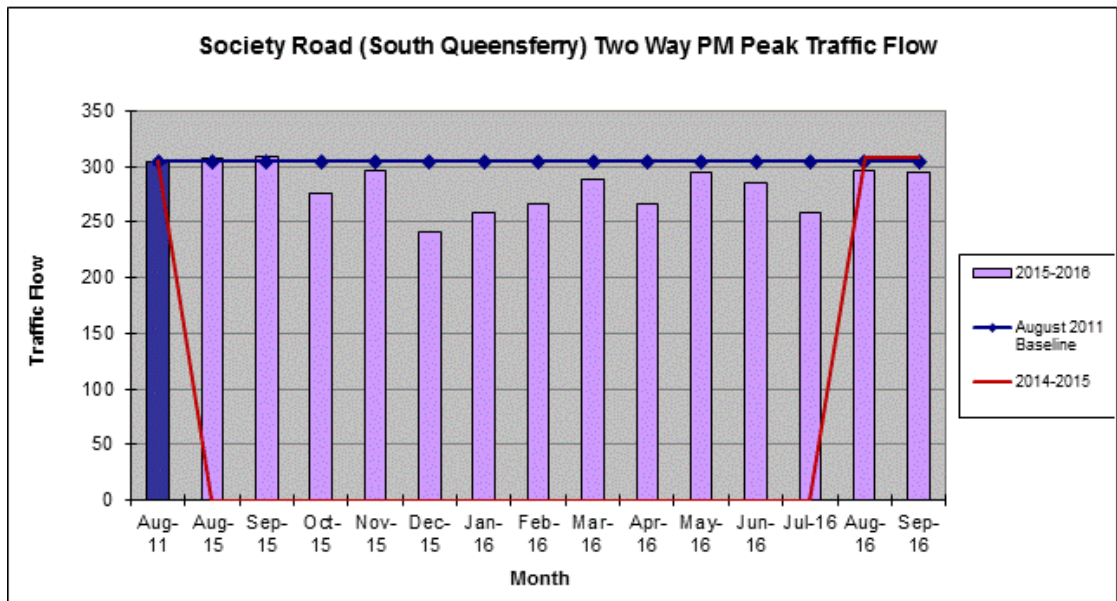


Figure 6-61 Monthly Two Way PM Peak Flows on the Society Road (South Queensferry)

### 6.9.3 Monthly Average HGV Flows

**Table 6-35 Site: JTC00596 Annual HGV Traffic Flows - August 2015 to September 2016**

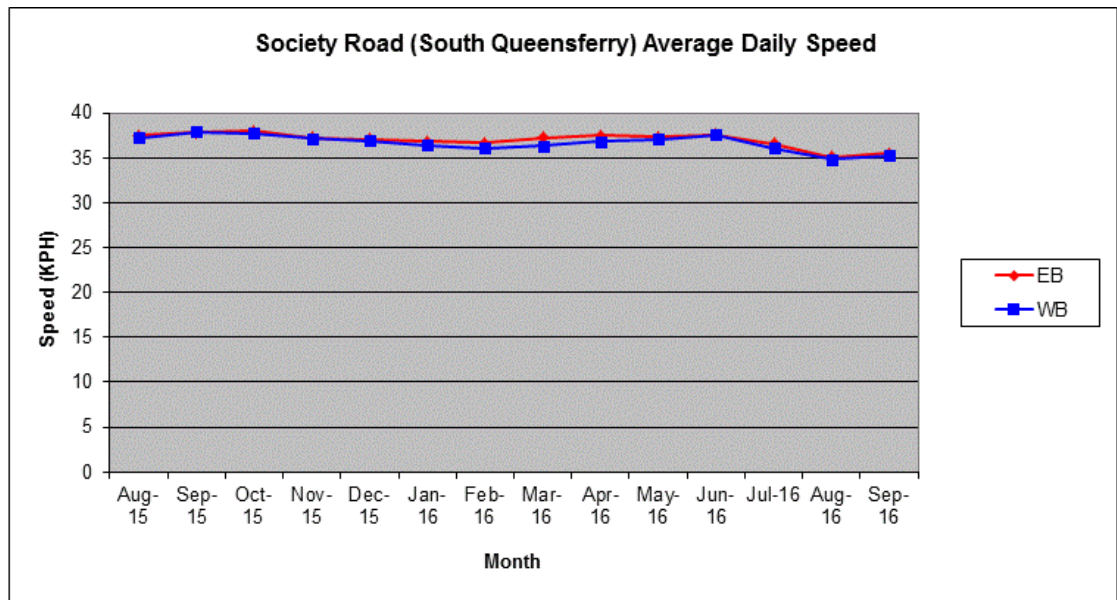
Counter	Location	Date	Two Way
JTC00596	Society Road (South Queensferry)	Aug-11	2
		Aug-15	0
		Sep-15	0
		Oct-15	0
		Nov-15	0
		Dec-15	0
		Jan-16	0
		Feb-16	0
		Mar-16	0
		Apr-16	0
		May-16	1
		Jun-16	1
		Jul-16	1
		Aug-16	1
		Sep-16	1
		<b>Annual Average</b>	<b>1</b>



### 6.9.1 Monthly Average All Vehicles Traffic Speeds

**Table 6-36 Site: JTC00596 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00596	Society Road (South Queensferry)	Aug-15	38	37
		Sep-15	38	38
		Oct-15	38	38
		Nov-15	37	37
		Dec-15	37	37
		Jan-16	37	36
		Feb-16	37	36
		Mar-16	37	36
		Apr-16	37	37
		May-16	37	37
		Jun-16	38	38
		Jul-16	37	36
		Aug-16	35	35
		Sep-16	36	35



**Figure 6-62 Average Monthly Traffic Speeds (KPH) on the Society Road (South Queensferry)**

## 6.10 Traffic Counter JTC00597 - Society Road (West of Port Edgar)

Summary of statistics between August 2015 and September 2016:

- No data recorded since October 2015.

### 6.10.1 Monthly Average Traffic Flows

**Table 6-37 Site: JTC00597 Annual Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	EB	WB	Two Way
JTC00597	Society Road (West of Port Edgar)	Aug-11	378	368	746
		Aug-15	369	354	723
		Sep-15	321	311	632
		Oct-15	313	302	615
		Nov-15	No Data	No Data	No Data
		Dec-15	No Data	No Data	No Data
		Jan-16	No Data	No Data	No Data
		Feb-16	No Data	No Data	No Data
		Mar-16	No Data	No Data	No Data
		Apr-16	No Data	No Data	No Data
		May-16	No Data	No Data	No Data
		Jun-16	No Data	No Data	No Data
		Jul-16	No Data	No Data	No Data
		Aug-16	No Data	No Data	No Data
		Sep-16	No Data	No Data	No Data
		<b>Annual Average</b>	<b>334</b>	<b>322</b>	<b>657</b>

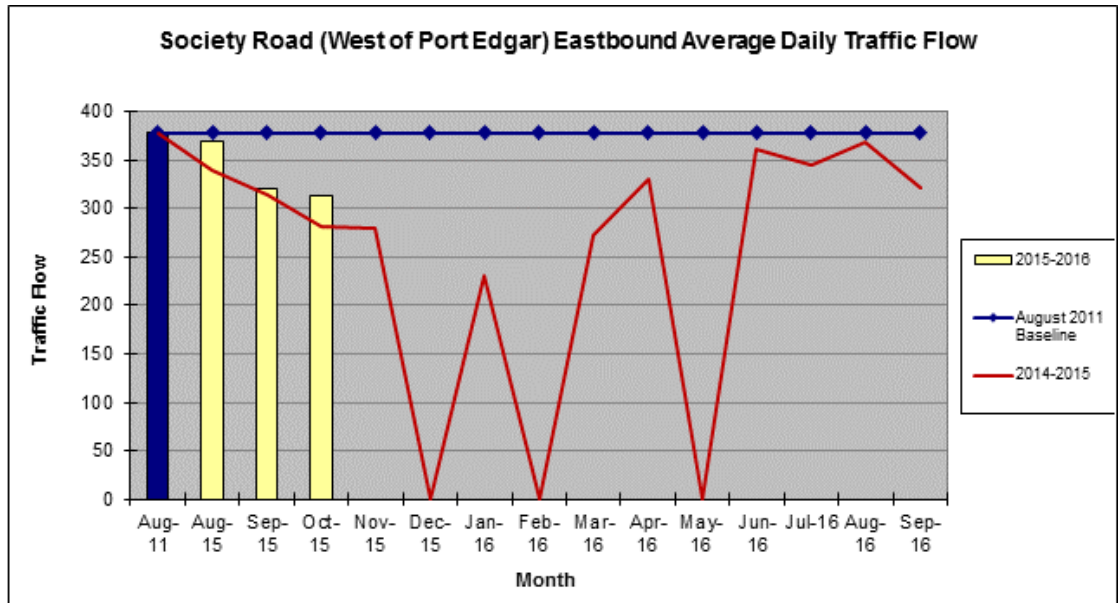


Figure 6-63 Monthly AADTs on the Society Road (West of Port Edgar)

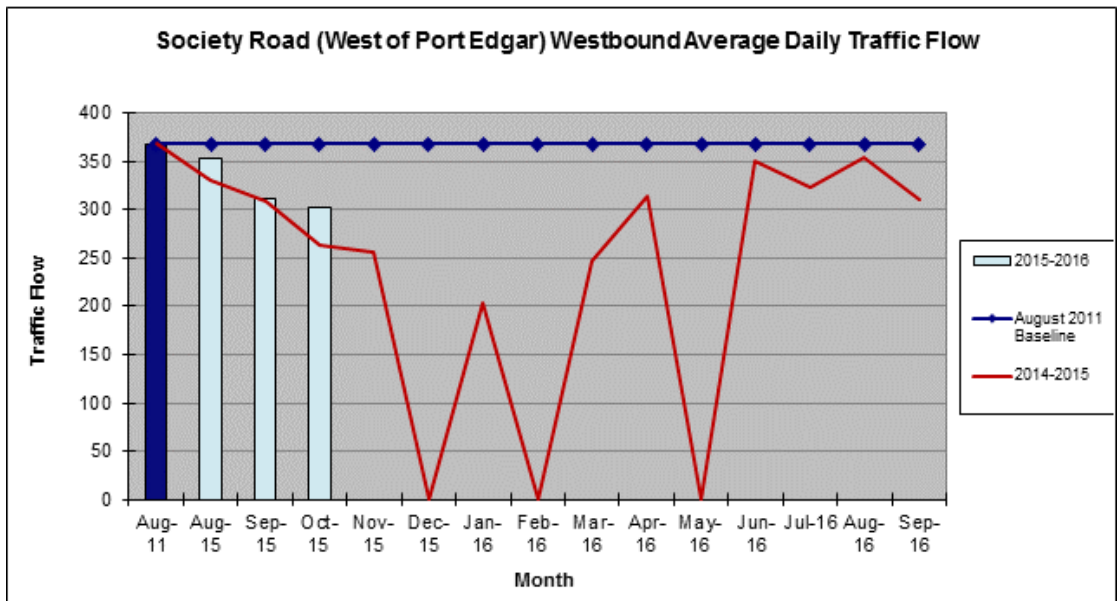


Figure 6-64 Monthly AADTs on the Society Road (West of Port Edgar)

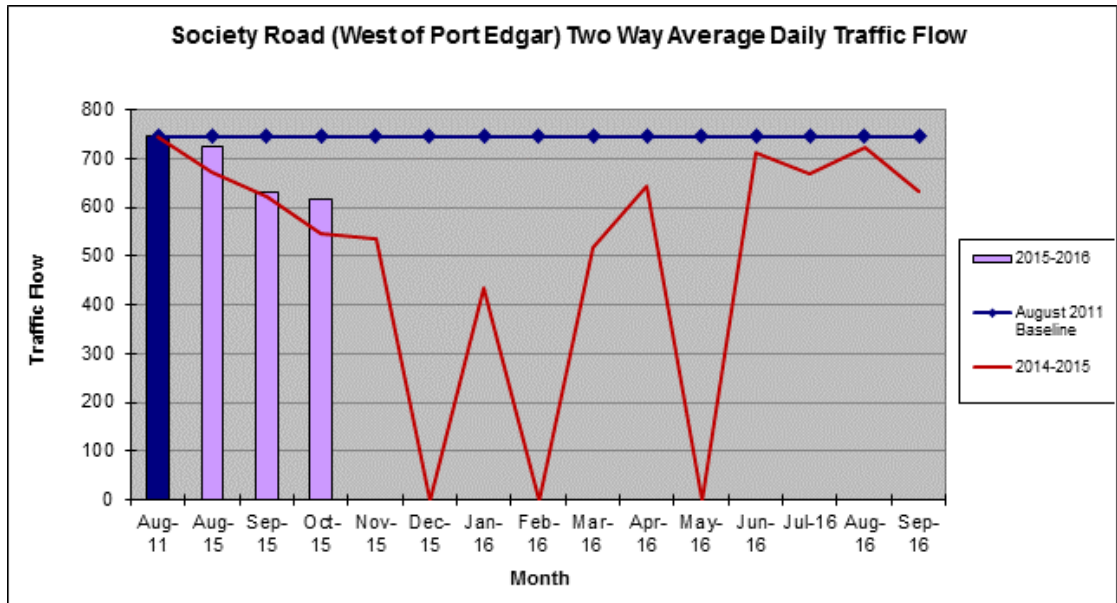


Figure 6-65 Monthly Two Way Daily Traffic Flows on the Society Road (West of Port Edgar)

### 6.10.2 Monthly Average AM and PM Peak Traffic Flows

Table 6-38 Site: JTC00597 Two Way AM and PM Peak Traffic Flows - August 2015 to September 2016

Counter	Location	Date	AM	PM
JTC00597	Society Road (West of Port Edgar)	Aug-11	90	137
		Aug-15	80	148
		Sep-15	70	135
		Oct-15	86	124
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data
	<b>Annual Average</b>	<b>79</b>	<b>136</b>	

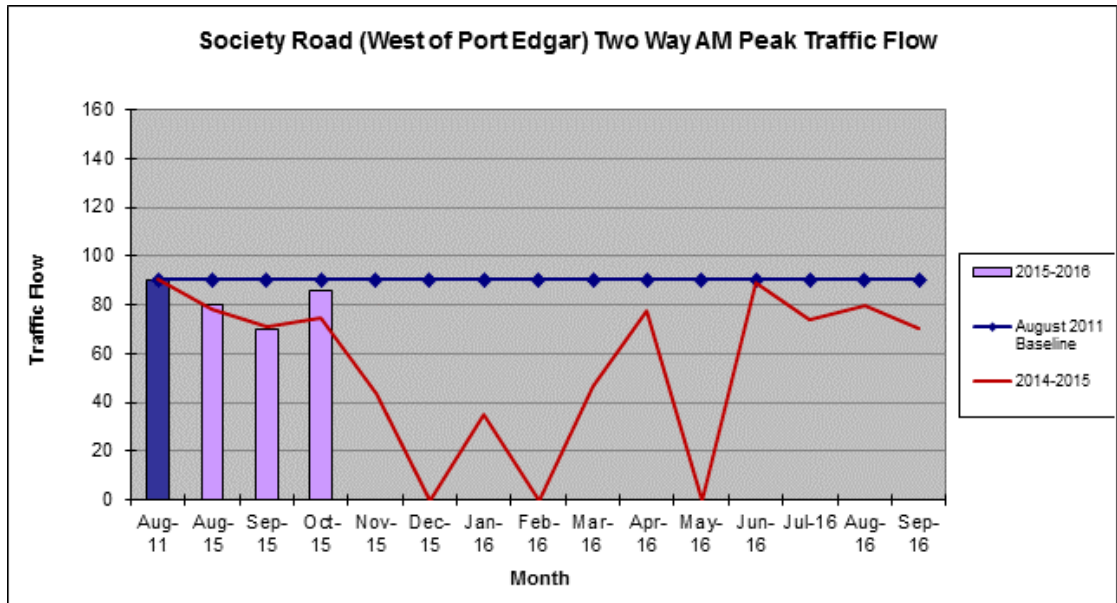


Figure 6-66 Monthly Two Way AM Peak Flows on the Society Road (West of Port Edgar)

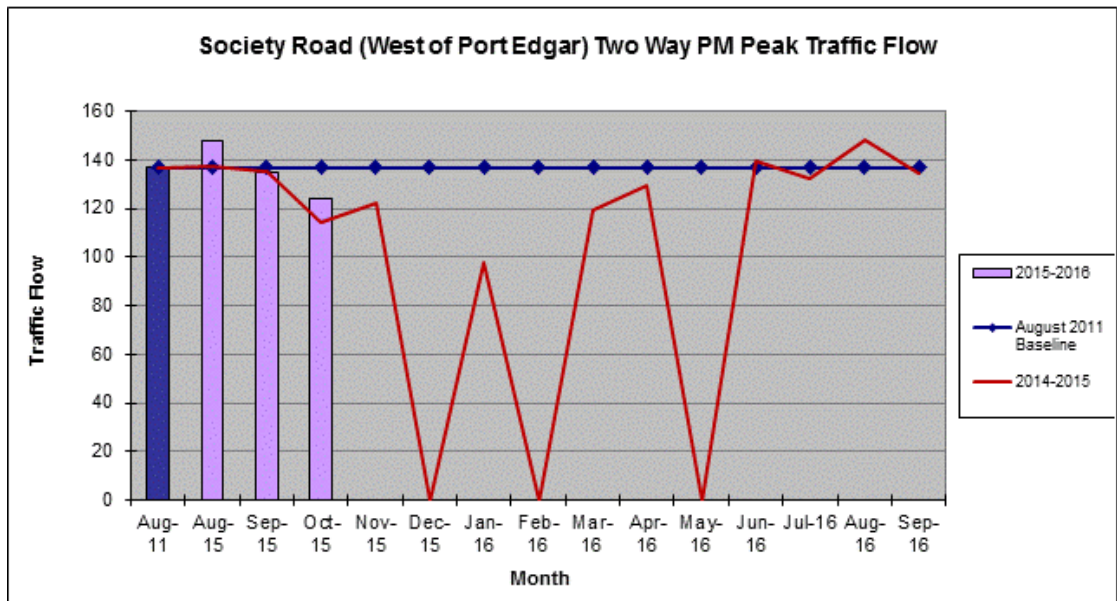


Figure 6-67 Monthly Two Way PM Peak Flows on the Society Road (West of Port Edgar)

### 6.10.3 Monthly Average HGV Flows

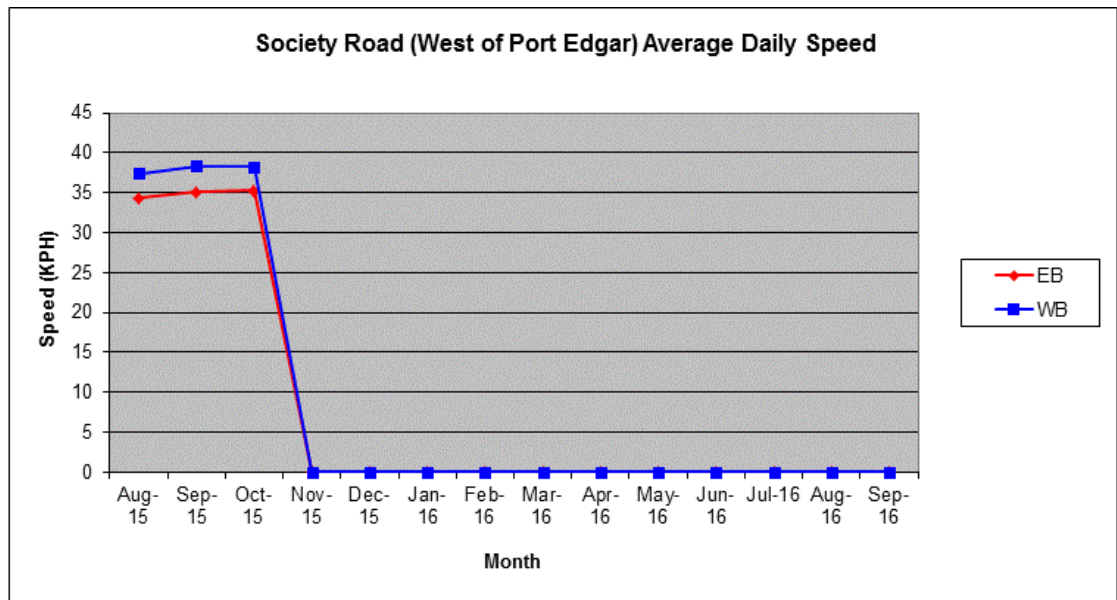
**Table 6-39 Site: JTC00597 Annual HGV Traffic Flows - August 2015 to September 2016**

Counter	Location	Date	Two Way
JTC00597	Society Road (West of Port Edgar)	Aug-11	1
		Aug-15	0
		Sep-15	0
		Oct-15	0
		Nov-15	No Data
		Dec-15	No Data
		Jan-16	No Data
		Feb-16	No Data
		Mar-16	No Data
		Apr-16	No Data
		May-16	No Data
		Jun-16	No Data
		Jul-16	No Data
		Aug-16	No Data
		Sep-16	No Data

### 6.10.1 Monthly Average All Vehicles Traffic Speeds

**Table 6-40 Site: JTC00597 Average Monthly Traffic Speeds (KPH) (All Vehicles)- August 2015 to September 2016**

Counter	Location	Date	EB	WB
JTC00597	Society Road (West of Port Edgar)	Aug-15	34	37
		Sep-15	35	38
		Oct-15	35	38
		Nov-15	No Data	No Data
		Dec-15	No Data	No Data
		Jan-16	No Data	No Data
		Feb-16	No Data	No Data
		Mar-16	No Data	No Data
		Apr-16	No Data	No Data
		May-16	No Data	No Data
		Jun-16	No Data	No Data
		Jul-16	No Data	No Data
		Aug-16	No Data	No Data
		Sep-16	No Data	No Data



**Figure 6-68 Average Monthly Traffic Speeds (KPH) on the Society Road (West of Port Edgar)**

# 7 Journey Times

## 7.1 Introduction

Journey time surveys have been undertaken along 13 routes in the vicinity of the Forth Road Bridge (FRB), since monitoring started in September 2011, using GPS technology to establish typical journey times and monitor any potential impacts, arising from such occurrences as changing traffic levels and patterns, on travel times for road users.

The routes identified broadly cover the same geographic area as the traffic counters and are intended to provide coverage of both local and strategic traffic routes. The strategic and local routes are shown in Figure 7-1 and Figure 7-2 respectively.

The strategic journey time routes are:

1. M9 Junction 6 to M90 Halbeath Junction via Kincardine Bridge; and
2. M9 Junction 6 to M90 Halbeath Junction via FRC / FRB.

The strategic journey time surveys are undertaken on an annual basis in September, with at least four runs in each direction for the following time periods:

- AM (07:00 – 09:00); and
- PM (16:00 – 18:00)

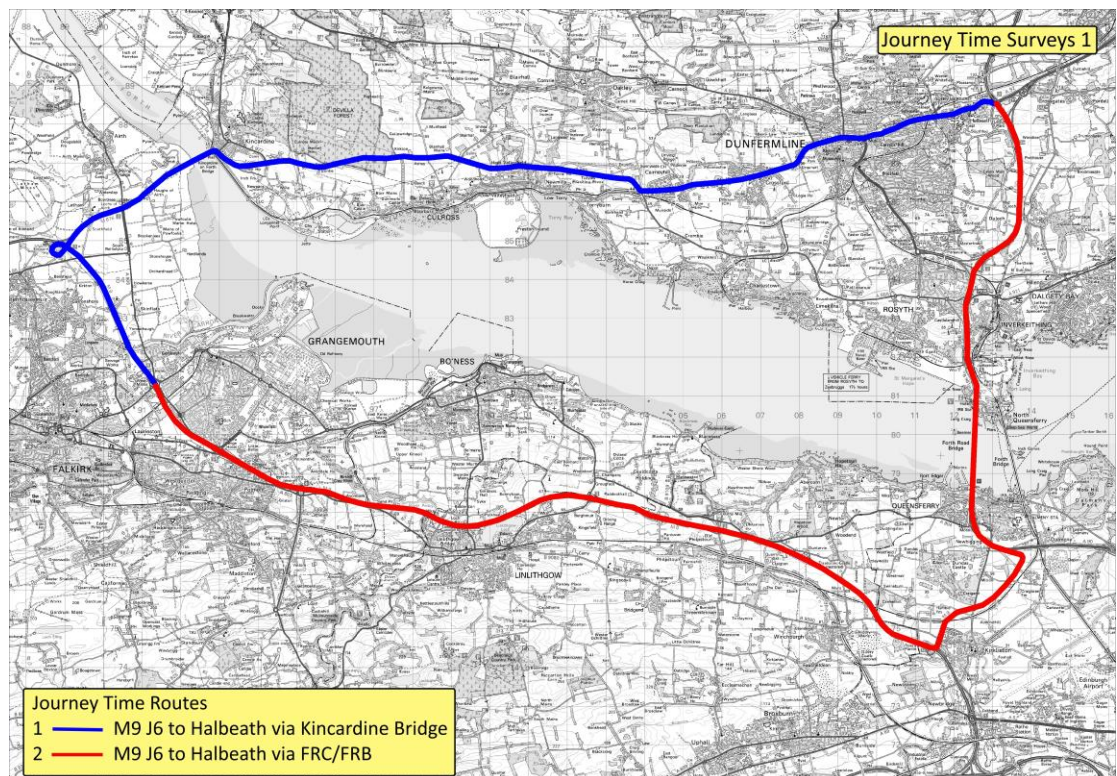


Figure 7-1 Strategic Journey Time Routes



The local journey time routes are as follows:

3. A90 between Echline Junction and Maybury Junction;
4. M9 Newbridge Junction to Echline Junction via the M9 Spur;
5. M9 Newbridge Junction to the A720 Hermiston Gait via the M8;
6. A8 between Gogar Junction and Newbridge Junction;
7. A90 Echline Junction to the M90 Halbeath Junction;
8. A985 between the A90 Admiralty Junction and Cairneyhill Roundabout;
9. A994 / A907 between Cairneyhill Roundabout and the M90 Halbeath Junction;
10. A823 (M) between the A907 and the M90 Masterton Junction;
11. A921 between the B9157 and the A90 Admiralty Junction;
12. B981 between the A92 and the A90 Admiralty Junction; and
13. A904 between Old Philpstoun and Echline Junction.

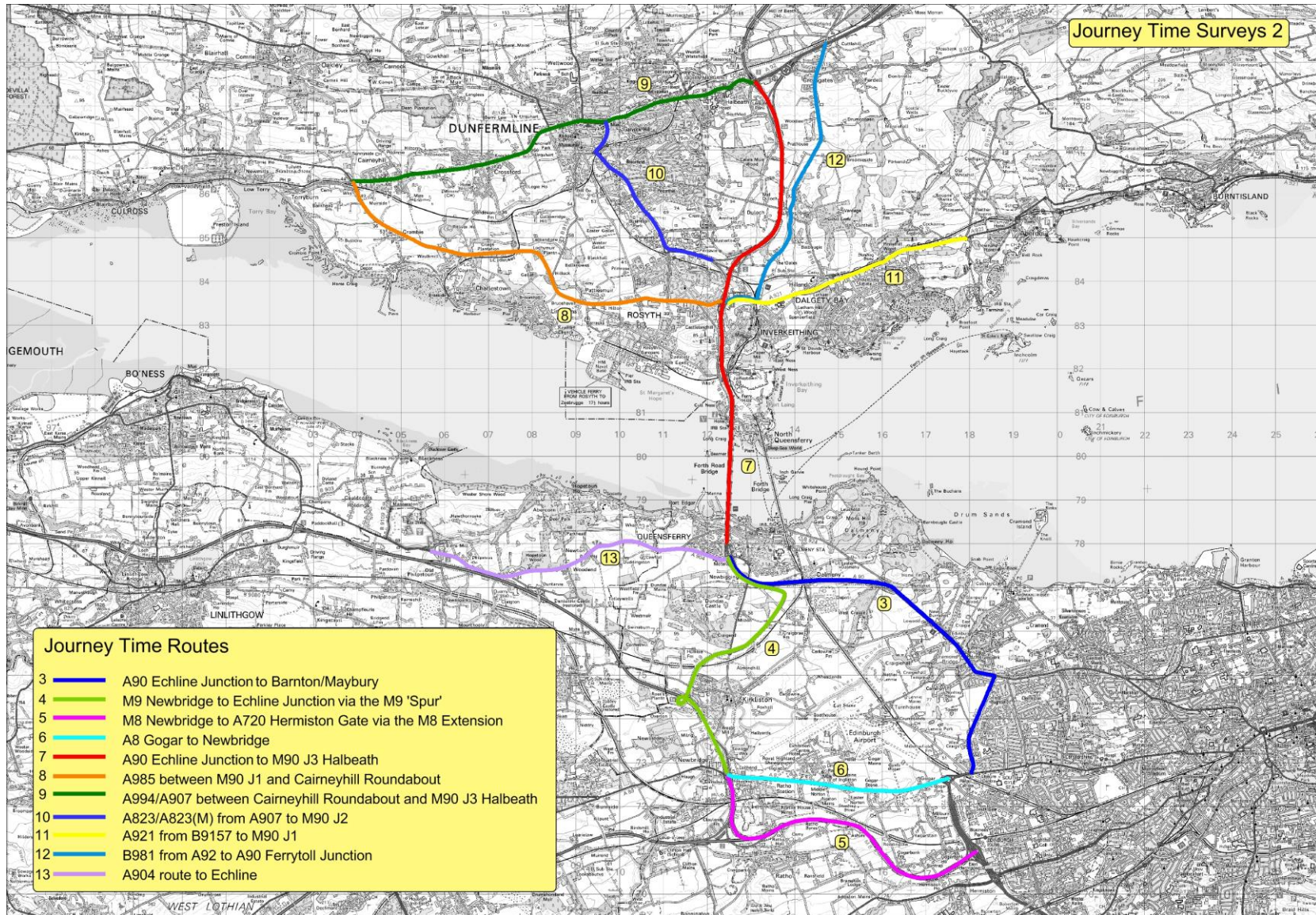


Figure 7-2 Local Journey Time Routes

Each local route is surveyed at least once per month in each direction for the following time periods:

- AM (07:00 – 09:00); and
- PM (16:00 – 18:00)

The surveys are undertaken on a Tuesday, Wednesday or Thursday for the purposes of recording typical weekday journey times. The monitoring team ensures that the journey times, recorded over the course of a month, are spread across each of these day types to provide a representative and robust survey sample of weekday periods.

The following items are presented for each route, as based on the journey time surveys in the monthly monitoring summary tables:

- Number of runs undertaken each month in each direction;
- Average distance of route for each month; and
- Average journey time for each month.

Due to a structural issue, the FRB was closed on the 4th of December 2015. The bridge then reopened to all vehicles except HGVs on 23 December, with the restrictions on HGVs in place until mid-February. December 2015 was not surveyed due to the closure and associated disruption on the network.

Although July 2016 and August 2016 were surveyed, some data was lost on the data transfer process and consequently some routes during these months are reported as “No Data”.

In August 2015, Route 8 WB PM was also surveyed, but due to a problem when recording the survey, it is being reported as “No Data”.

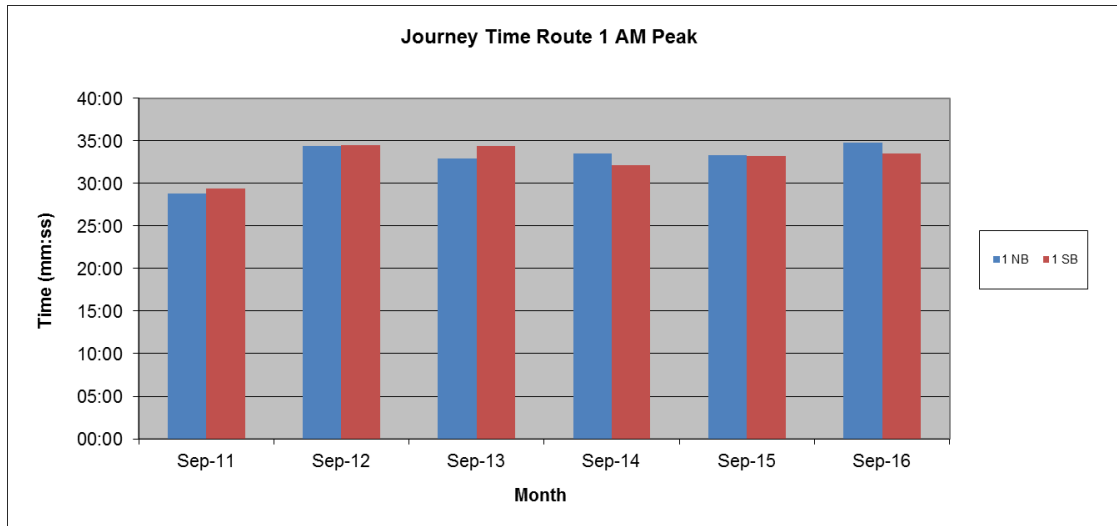
## 7.2 Route 1 M9 Junction 6 to M90 Halbeath Junction via Kincardine Bridge



Figure 7-3 Route 1 M9 Junction 6 to M90 Halbeath Junction via Kincardine Bridge

Table 7-1 Route 1 M9 Junction 6 to M90 Halbeath Junction via Kincardine Bridge AM Peak

Route Description	Date	Northbound			Southbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 1 - M9 Junction 6 to M90 Halbeath Junction via Kincardine Bridge	Sep-11	1	30.5	00:28:49	2	29.3	00:29:25
	Sep-12	2	30.2	00:34:27	4	29.1	00:34:30
	Sep-13	4	30.2	00:32:55	2	29.2	00:34:25
	Sep-14	4	30.4	00:33:33	4	29.2	00:32:07
	Sep-15	4	30.2	00:33:22	3	29.2	00:33:11
	Sep-16	4	30.1	00:34:50	3	29.1	00:33:34

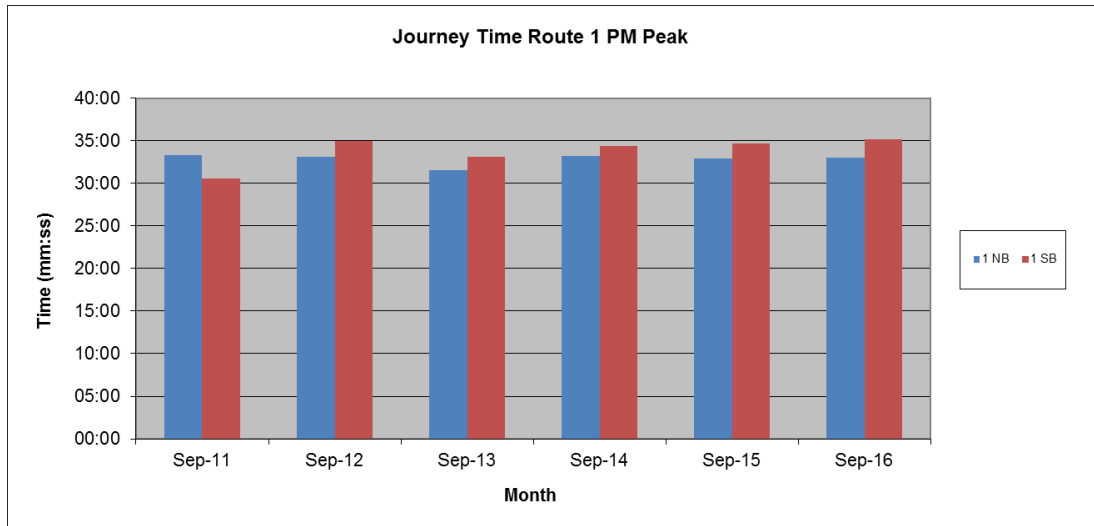


**Figure 7-4 Route 1 M9 Junction 6 to M90 Halbeath Junction via Kincardine Bridge AM Peak**

As shown in Figure 7-4, the average journey time in the northbound direction increased by around one and a half minutes between September 2015 and September 2016, during the AM Peak. In the southbound direction, journey times in September 2016 were comparable with those recorded in September 2015. It should also be noted that journey times recorded in both directions, in September 2016, were higher than those recorded in September 2011.

**Table 7-2 Route 1 M9 Junction 6 to M90 Halbeath Junction via Kincardine Bridge PM Peak**

Route Description	Date	Northbound			Southbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 1 - M9 Junction 6 to M90 Halbeath Junction via Kincardine Bridge	Sep-11	1	30.3	00:33:22	1	29.2	00:30:33
	Sep-12	4	30.4	00:33:07	4	29.2	00:35:01
	Sep-13	3	30.2	00:31:31	5	23.3	00:33:05
	Sep-14	4	30.0	00:33:12	4	29.3	00:34:22
	Sep-15	3	30.2	00:32:58	4	29.1	00:34:42
	Sep-16	4	30.2	00:33:04	4	29.2	00:35:14



**Figure 7-5 Route 1 M9 Junction 6 to M90 Halbeath Junction via Kincardine Bridge PM Peak**

As illustrated in Figure 7-5, September 2016 PM Peak journey times, in the northbound direction, were comparable with those recorded in September 2015 and September 2011. Southbound journey times were approximately half a minute higher compared to September 2015 and remained approximately five minutes longer, compared to September 2011.

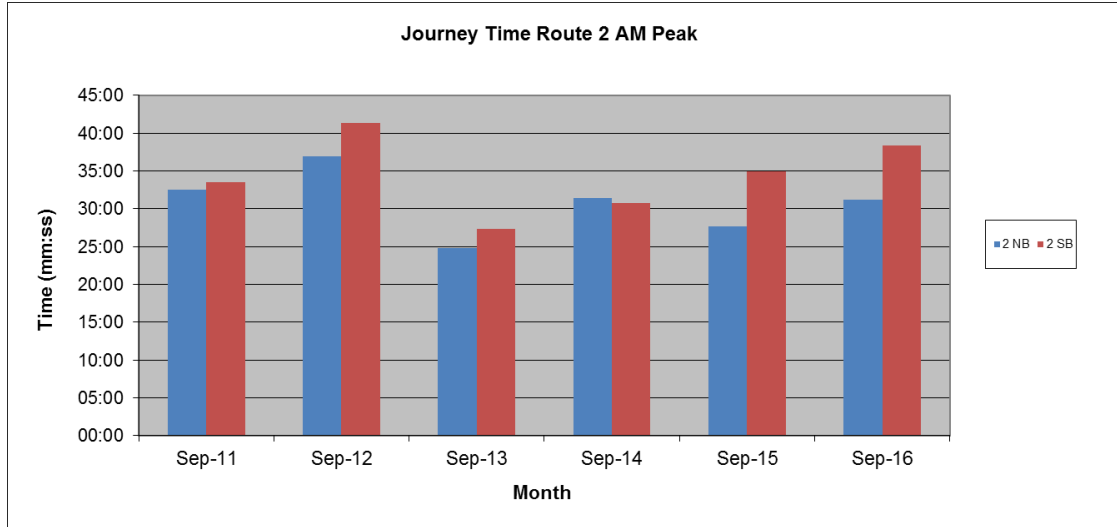
**7.3 Route 2 M9 Junction 6 to M90 Halbeath Junction via FRC / FRB**



**Figure 7-6 Route 2 M9 Junction 6 to M90 Halbeath Junction via FRC / FRB**

**Table 7-3 Route 2 M9 Junction 6 to M90 Halbeath Junction via FRC / FRB AM Peak**

Route Description	Date	Northbound			Southbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 2 - M9 Junction 6 to M90 Halbeath Junction via FRC / FRB	Sep-11	1	44.9	00:32:29	2	44.2	00:33:29
	Sep-12	2	44.4	00:36:55	3	44.0	00:41:19
	Sep-13	2	39.3	00:24:51	3	39.7	00:27:21
	Sep-14	4	38.8	00:31:22	3	40.1	00:30:43
	Sep-15	4	39.7	00:27:43	3	40.0	00:34:54
	Sep-16	4	39.6	00:31:14	4	39.9	00:38:19



**Figure 7-7 Route 2 M9 Junction 6 to M90 Halbeath Junction via FRC / FRB AM Peak**

In the AM Peak, the average journey time increased by approximately three and a half minutes in the northbound direction, due to more congestion on the approach to junction 1A. Journey times increased by approximately four minutes in the southbound direction, for the second consecutive year, from September 2015 to September 2016. This was due to slow moving traffic experienced on the approach to the FRB in the 2016 runs.

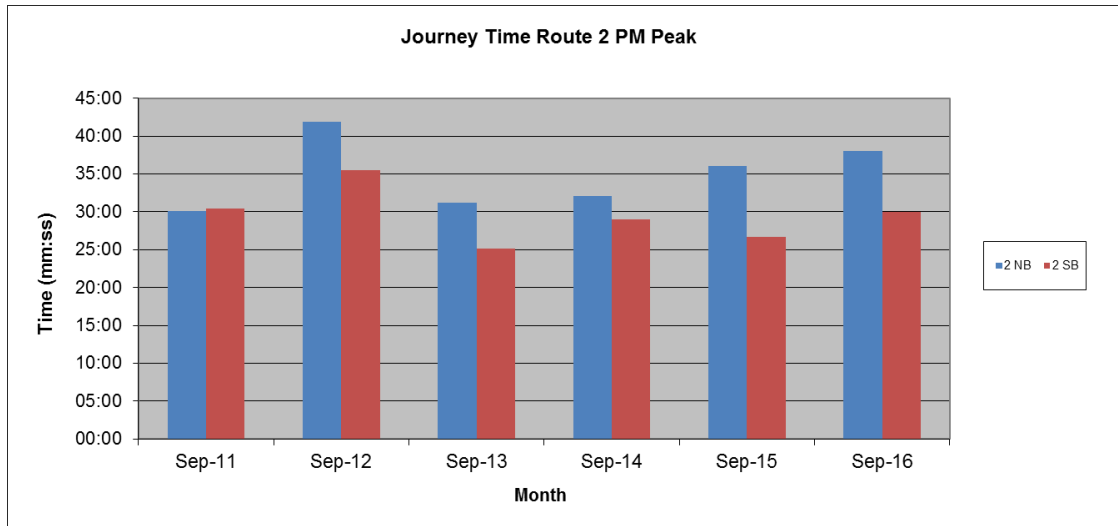
Northbound journey times were similar to those recorded in September 2011, whilst southbound journey times increased by about five minutes.

It should be noted that 2011 and 2012 distances are approximately five kilometres longer than distances from 2013 to present. This is due to the arrangement at J1A meaning routing via Newbridge was previously necessary in order to access the M9 westbound.

**Table 7-4 Route 2 M9 Junction 6 to M90 Halbeath Junction via FRC / FRB PM Peak**

Route Description	Date	Northbound			Southbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 2 - M9 Junction 6 to M90 Halbeath Junction via FRC / FRB	Sep-11	3	44.9	00:30:05	1	44.2	00:30:24
	Sep-12	3	44.6	00:41:51	2	44.0	00:35:30
	Sep-13	3	38.2	00:31:11	2	38.1	00:25:05
	Sep-14	4	39.8	00:32:07	4	40.0	00:28:59
	Sep-15	4	39.7	00:36:05	4	40.1	00:26:40
	Sep-16	4	39.5	00:38:02	4	40.1	00:29:58





**Figure 7-8 Route 2 M9 Junction 6 to M90 Halbeath Junction via FRC / FRB PM Peak**

As shown in Figure 7-8, in the PM peak the journey time increased by approximately two minutes in the northbound direction, due to slow moving traffic from Scotstoun to the FRB experienced during the 2016 surveys.

In the southbound direction, the average journey time increased by approximately three minutes, due to congestion experienced during one run, between junctions 5 and 6 on the M9. Compared to September 2011, journey times increased by approximately eight minutes in the northbound direction and decreased by around thirty seconds in the southbound direction.

### 7.4 Route 3 A90 Echline Junction to Maybury Junction



Figure 7-9 Route 3 A90 Echline Junction to Maybury Junction

Table 7-5 Route 3 A90 Echline Junction to Maybury Junction AM Peak

Route Description	Date	Eastbound			Westbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 3 - A90 Echline Junction to Maybury Junction	Sep-15	1	9.0	00:17:16	1	8.8	00:12:22
	Oct-15	1	9.0	00:23:07	1	8.8	00:07:23
	Nov-15	1	9.0	00:28:23	1	8.9	00:08:09
	Dec-15	Not surveyed					
	Jan-16	1	8.9	00:32:55	1	8.9	00:08:15
	Feb-16	1	9.1	00:29:35	1	8.9	00:07:26
	Mar-16	1	8.9	00:16:27	1	8.9	00:12:23
	Apr-16	1	9.0	00:25:50	1	8.9	00:09:15
	May-16	1	9.0	00:24:33	1	8.9	00:08:25
	Jun-16	1	8.9	00:28:23	1	8.8	00:09:09
	Jul-16	1	9.0	00:14:24	1	8.8	00:07:24
	Aug-16	1	9.0	00:22:25	1	8.8	00:15:01
Sep-16	1	8.9	00:36:54	1	8.8	00:08:09	

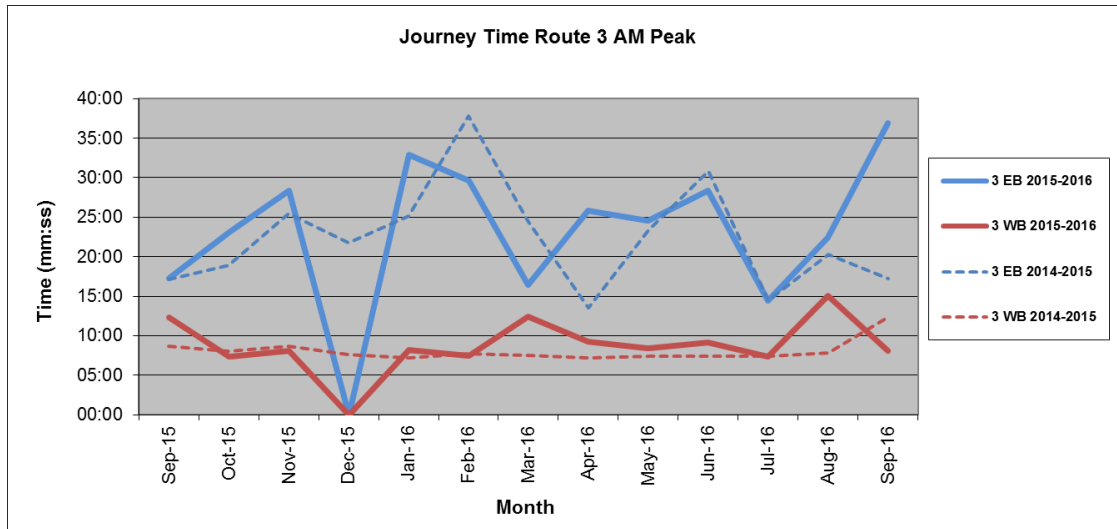
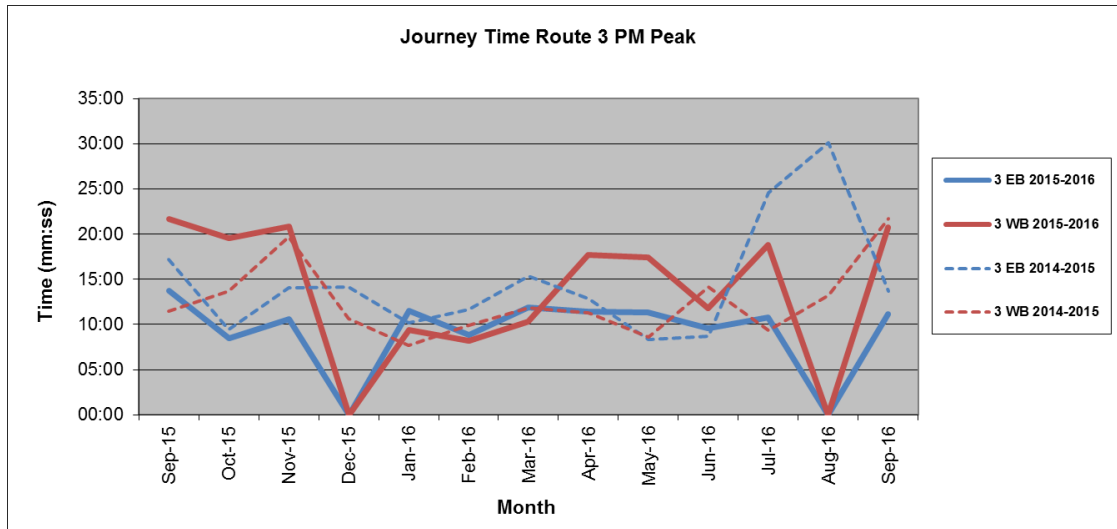


Figure 7-10 Route 3 A90 Echline Junction to Maybury Junction AM Peak

In the AM Peak, there was a high degree of variation in journey times in the eastbound direction, with particularly high journey times recorded in September 2016, due to heavy traffic on the A90 leading into Barnton. In the westbound direction, journey times were generally consistent throughout the monitoring period, between seven and nine minutes, with the exceptions of just over 12 minutes in March 2016, and just over 15 minutes in August 2016, due to queuing at the Maybury Road approach to Barnton.

Table 7-6 Route 3 A90 Echline Junction to Maybury Junction PM Peak

Route Description	Date	Eastbound			Westbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 3 - A90 Echline Junction to Maybury Junction	Sep-15	1	9.0	00:13:42	1	8.9	00:21:43
	Oct-15	1	9.0	00:08:29	1	8.9	00:19:33
	Nov-15	1	9.0	00:10:34	1	8.9	00:20:53
	Dec-15	Not surveyed					
	Jan-16	1	9.1	00:11:30	1	8.9	00:09:24
	Feb-16	1	9.0	00:08:53	1	8.9	00:08:12
	Mar-16	1	9.0	00:11:52	1	8.9	00:10:19
	Apr-16	1	9.0	00:11:23	1	8.8	00:17:41
	May-16	1	8.9	00:11:19	1	8.9	00:17:28
	Jun-16	1	9.0	00:09:37	1	8.9	00:11:46
	Jul-16	1	9.0	00:10:45	1	8.9	00:18:49
	Aug-16	No Data					
Sep-16	1	9.0	00:11:09	1	8.9	00:20:47	



**Figure 7-11 Route 3 A90 Echline Junction to Maybury Junction PM Peak**

During the PM Peak, in the eastbound direction, journey times were consistent throughout the 2015-2016 period, generally between eight to eleven minutes. However, there was a high degree of variation between journey times in the westbound direction, with congestion on the approach to Barnton junction observed in April 2016 and more congestion than usual between Dalmeny and the FRB observed in May 2016 and July 2016.

### 7.5 Route 4 M9 Newbridge Junction to Echline Junction via the M9 Spur

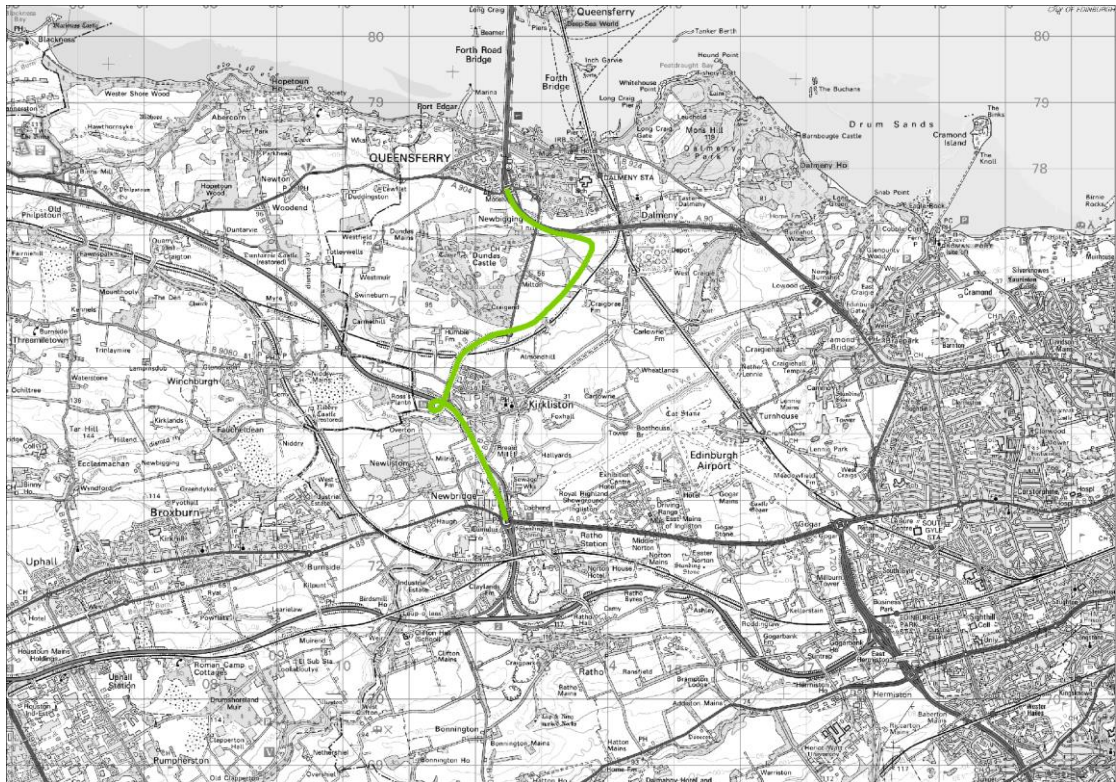
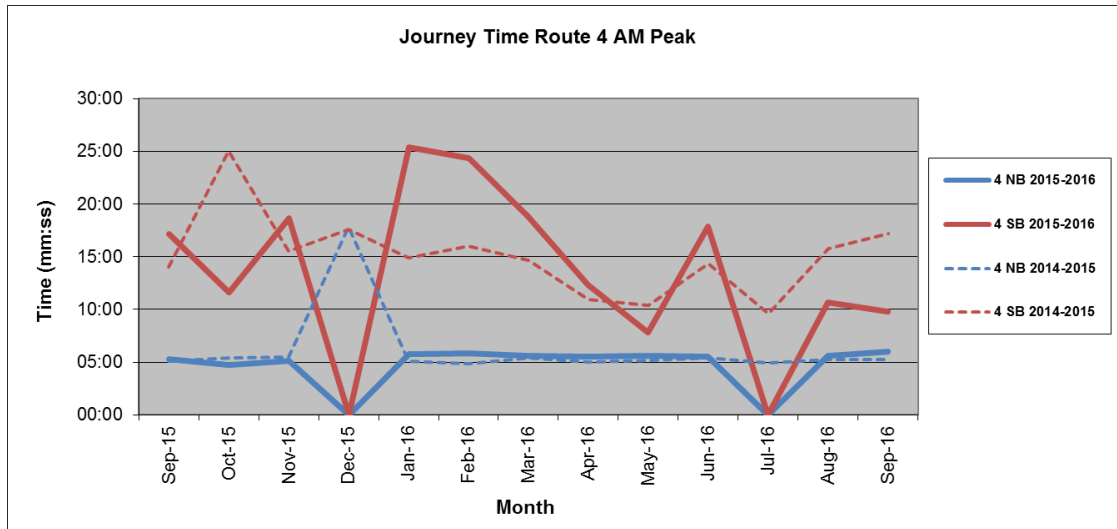


Figure 7-12 Route 4 M9 Newbridge Junction to Echline Junction via the M9 Spur

Table 7-7 Route 4 M9 Newbridge Junction to Echline Junction via the M9 Spur AM Peak

Route Description	Date	Northbound			Southbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 4 - M9 Newbridge Junction to Echline Junction via the M9 Spur	Sep-15	1	7.5	00:05:16	1	6.9	00:17:10
	Oct-15	1	7.5	00:04:46	1	6.9	00:11:35
	Nov-15	1	7.4	00:05:06	1	6.9	00:18:41
	Dec-15	Not surveyed					
	Jan-16	1	7.4	00:05:46	1	6.9	00:25:21
	Feb-16	1	7.4	00:05:49	1	6.9	00:24:23
	Mar-16	1	7.4	00:05:37	1	6.9	00:18:47
	Apr-16	1	7.4	00:05:31	1	6.9	00:12:20
	May-16	1	7.5	00:05:35	1	6.9	00:07:51
	Jun-16	1	7.4	00:05:31	1	6.9	00:17:50
	Jul-16	No Data					
	Aug-16	1	7.5	00:05:34	1	6.9	00:10:42
Sep-16	1	7.4	00:06:00	1	6.8	00:09:47	

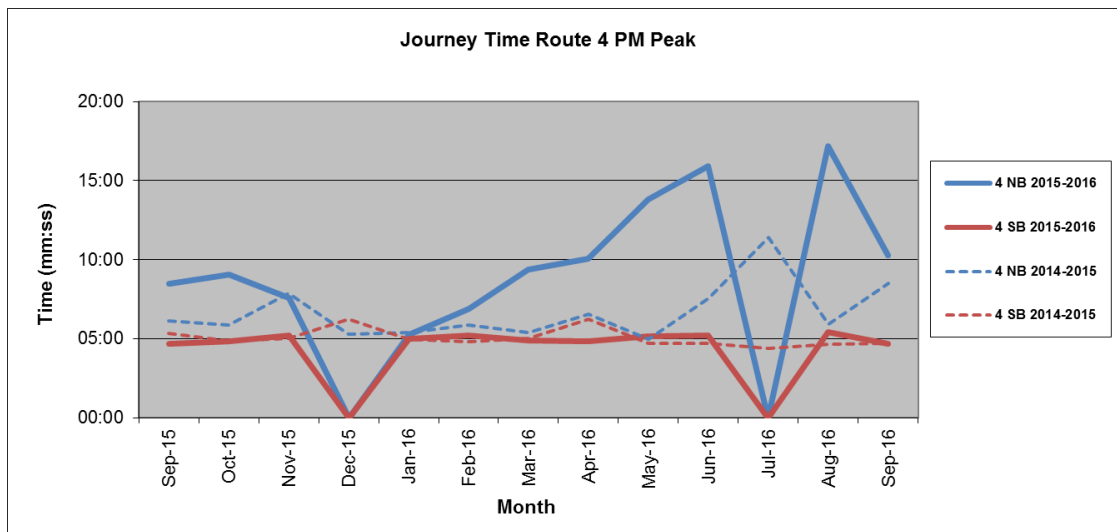


**Figure 7-13 Route 4 M9 Newbridge Junction to Echline Junction via the M9 Spur AM Peak**

From review of Figure 7-13, the southbound journey times were generally higher compared to the northbound journey times, during the AM Peak, with particularly high times recorded in January 2016 and February 2016, due to heavy congestion experienced from the M90 Spur to Newbridge. For the second consecutive year, journey times have increased relative to the previous year's results, in the southbound direction, between the Echline and Newbridge Junctions, 15 min 44 s (2015-2016), 15 min 10 s (2014-2015) and 12 min 10 s (2013-2014). The journey time recorded for the current monitoring period is comparable with the pre-construction baseline journey time of 15 minutes 40 seconds. The increase in journey times is due to more congestion on the approach to Newbridge.

**Table 7-8 Route 4 M9 Newbridge Junction to Echline Junction via the M9 Spur PM Peak**

Route Description	Date	Northbound			Southbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 4 - M9 Newbridge Junction to Echline Junction via the M9 Spur	Sep-15	1	7.4	00:08:29	1	7.0	00:04:42
	Oct-15	1	7.4	00:09:03	1	6.9	00:04:51
	Nov-15	1	7.4	00:07:35	1	6.9	00:05:12
	Dec-15	Not surveyed					
	Jan-16	1	7.5	00:05:17	1	6.9	00:04:59
	Feb-16	1	7.5	00:06:55	1	6.9	00:05:12
	Mar-16	1	7.4	00:09:24	1	6.9	00:04:54
	Apr-16	1	7.4	00:10:03	1	6.9	00:04:51
	May-16	1	7.4	00:13:50	1	6.9	00:05:11
	Jun-16	1	7.4	00:15:54	1	6.9	00:05:14
	Jul-16	No Data					
	Aug-16	1	7.4	00:17:10	1	6.9	00:05:24
	Sep-16	1	7.4	00:10:18	1	6.9	00:04:42



**Figure 7-14 Route 4 M9 Newbridge Junction to Echline Junction via the M9 Spur PM Peak**

The journey times in the southbound direction, during the PM Peak, were broadly similar to those recorded in the AM Peak, in the northbound direction. Northbound journey times were generally consistent, with the exceptions of May 2016, June 2016 and August 2016, where relatively high times were recorded, due to slow moving traffic from Scotstoun to the FRB.

## 7.6 Route 5 Newbridge Junction to the A720 Hermiston Gait via the M9/M8



Figure 7-15 Route 5 Newbridge Junction to the A720 Hermiston Gait via the M9/M8

Table 7-9 Route 5 Newbridge Junction to the A720 Hermiston Gait via the M9/M8 AM Peak

Route Description	Date	Eastbound			Westbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 5 - Newbridge Junction to the A720 Hermiston Gait via the M9/M8	Sep-15	1	7.1	00:13:38	1	7.4	00:05:05
	Oct-15	1	7.0	00:14:14	1	7.4	00:04:27
	Nov-15	1	7.0	00:13:20	1	7.4	00:04:48
	Dec-15	Not surveyed					
	Jan-16	1	7.1	00:17:32	1	7.3	00:05:04
	Feb-16	1	7.1	00:13:20	1	7.3	00:04:27
	Mar-16	1	7.2	00:06:17	1	7.3	00:04:35
	Apr-16	1	7.1	00:08:20	1	7.4	00:04:49
	May-16	1	7.1	00:09:55	1	7.3	00:05:08
	Jun-16	1	7.1	00:13:51	1	7.4	00:05:06
	Jul-16	1	7.1	00:12:33	1	7.4	00:04:52
	Aug-16	1	7.1	00:08:19	1	7.3	00:04:45
Sep-16	1	7.1	00:04:21	1	7.4	00:05:00	



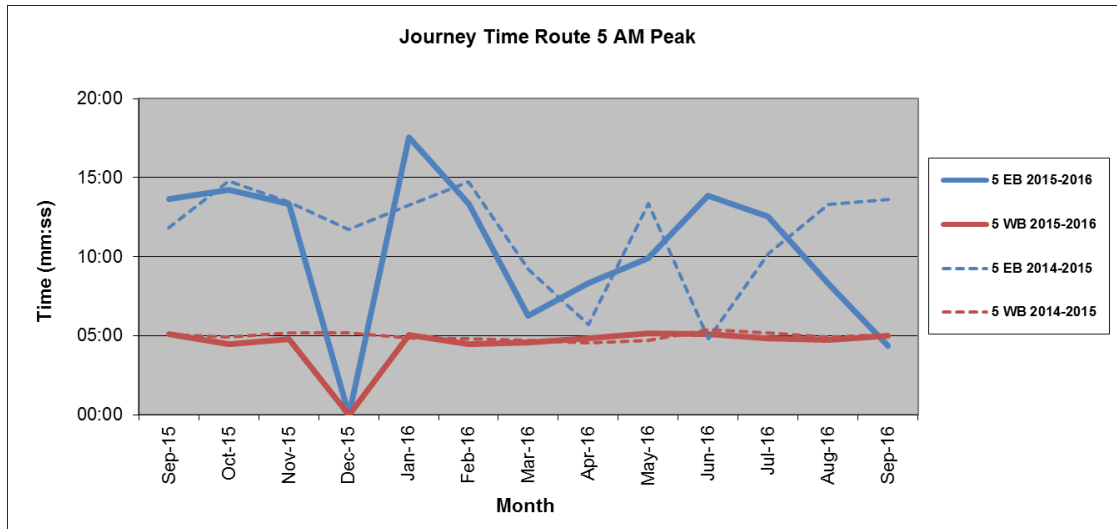


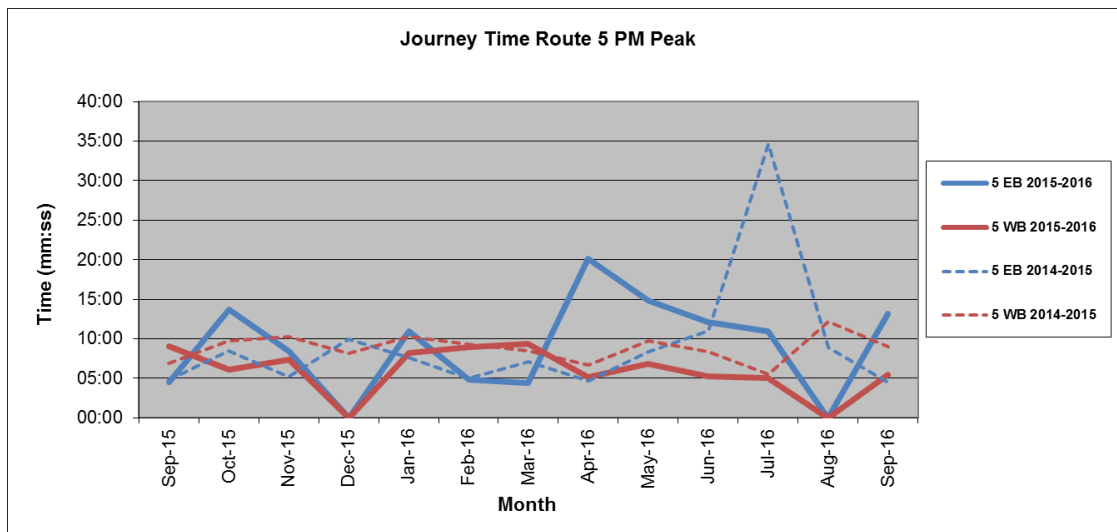
Figure 7-16 Route 5 Newbridge Junction to the A720 Hermiston Gait via the M9/M8 AM Peak

As shown in Figure 7-16, journey times were generally higher and less consistent in the eastbound direction, compared to the westbound direction, in the AM Peak.

In the eastbound direction, a high journey time of approximately 17 minutes was recorded in January 2016, due to heavy congestion and slow moving traffic from the M9 southbound on slip at Newbridge, to the M8. Congestion at the same location was also responsible for higher than average journey times in October 2015 and February 2016.

Table 7-10 Route 5 Newbridge Junction to the A720 Hermiston Gait via the M9/M8 PM Peak

Route Description	Date	Eastbound			Westbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 5 - Newbridge Junction to the A720 Hermiston Gait via the M9/M8	Sep-15	1	7.2	00:04:29	1	7.4	00:09:01
	Oct-15	1	7.1	00:13:44	1	7.4	00:06:07
	Nov-15	1	7.1	00:08:23	1	7.3	00:07:24
	Dec-15	Not surveyed					
	Jan-16	1	7.1	00:10:54	1	7.4	00:08:12
	Feb-16	1	7.1	00:04:53	1	7.4	00:08:55
	Mar-16	1	7.1	00:04:23	1	7.4	00:09:22
	Apr-16	1	7.1	00:20:06	1	7.3	00:05:07
	May-16	1	7.1	00:14:50	1	7.3	00:06:51
	Jun-16	1	7.1	00:12:04	1	7.4	00:05:13
	Jul-16	1	7.1	00:10:54	1	7.4	00:05:03
	Aug-16	No Data					
Sep-16	1	7.1	00:13:10	1	7.2	00:05:25	



**Figure 7-17 Route 5 Newbridge Junction to the A720 Hermiston Gait via the M9/M8 PM Peak**

As shown in Figure 7-17, journey times were generally higher in the eastbound direction, compared to the westbound direction, during the 2015-2016 PM Peak, with the exceptions of February 2016 and March 2016. When comparing the 2015-2016 PM Peak dataset against that of 2014-2015, journey times were generally lower in the westbound direction and higher in the eastbound direction.

There was a high degree of variation between journey times in the eastbound direction, with values between four minutes and twenty minutes, due to congestion on the M8 up to Hermiston Gait, observed in April 2016 and May 2016.

In the westbound direction, slightly higher than average journey times were recorded, from January 2016 to March 2016.

### 7.7 Route 6 A8 Gogar Junction to Newbridge Junction

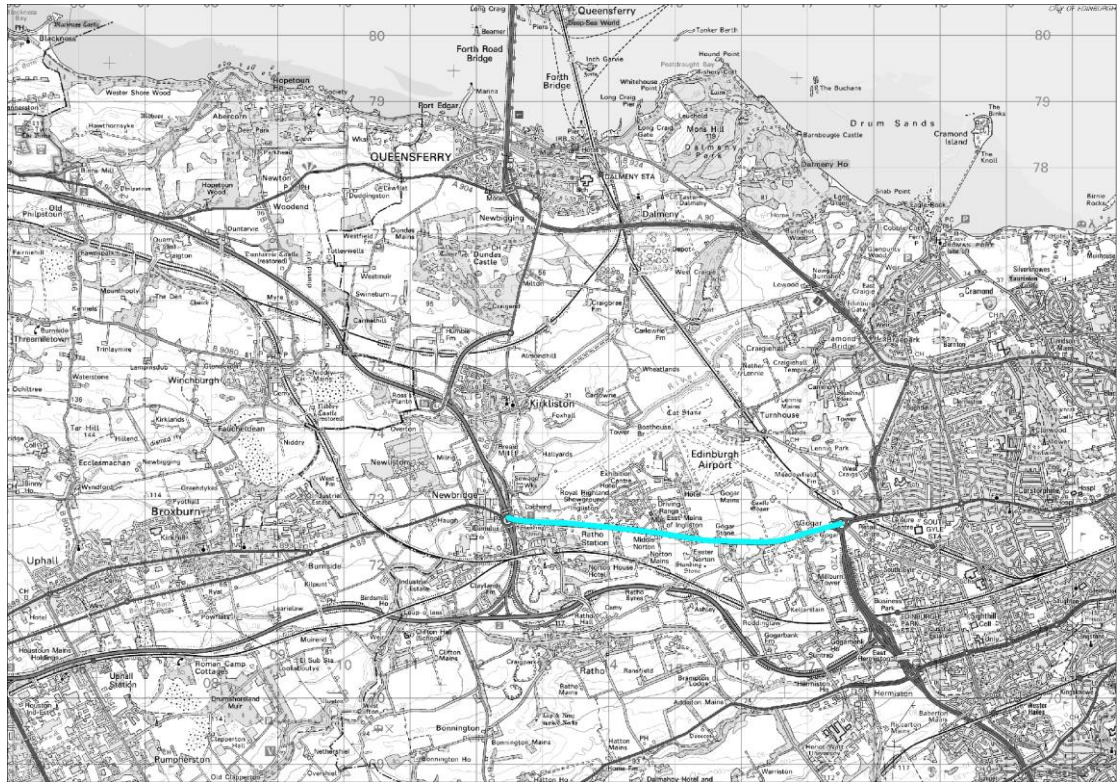


Figure 7-18 Route 6 A8 Gogar Junction to Newbridge Junction

Table 7-11 Route 6 A8 Gogar Junction to Newbridge Junction AM Peak

Route Description	Date	Eastbound			Westbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 6 - A8 Gogar Junction to Newbridge Junction	Sep-15	1	4.6	00:04:36	1	4.5	00:03:32
	Oct-15	1	4.6	00:03:39	1	4.5	00:03:52
	Nov-15	1	4.6	00:04:52	1	4.5	00:03:24
	Dec-15	Not surveyed					
	Jan-16	1	4.6	00:08:52	1	4.5	00:04:41
	Feb-16	1	4.6	00:07:49	1	4.5	00:03:30
	Mar-16	1	4.6	00:04:50	1	4.5	00:04:07
	Apr-16	1	4.6	00:05:29	1	4.5	00:04:29
	May-16	1	4.6	00:03:50	1	4.5	00:04:11
	Jun-16	1	4.6	00:04:39	1	4.5	00:04:46
	Jul-16	1	4.6	00:03:49	1	4.5	00:03:48
	Aug-16	1	4.6	00:04:20	1	4.5	00:03:58
Sep-16	1	4.6	00:04:58	1	4.5	00:03:35	

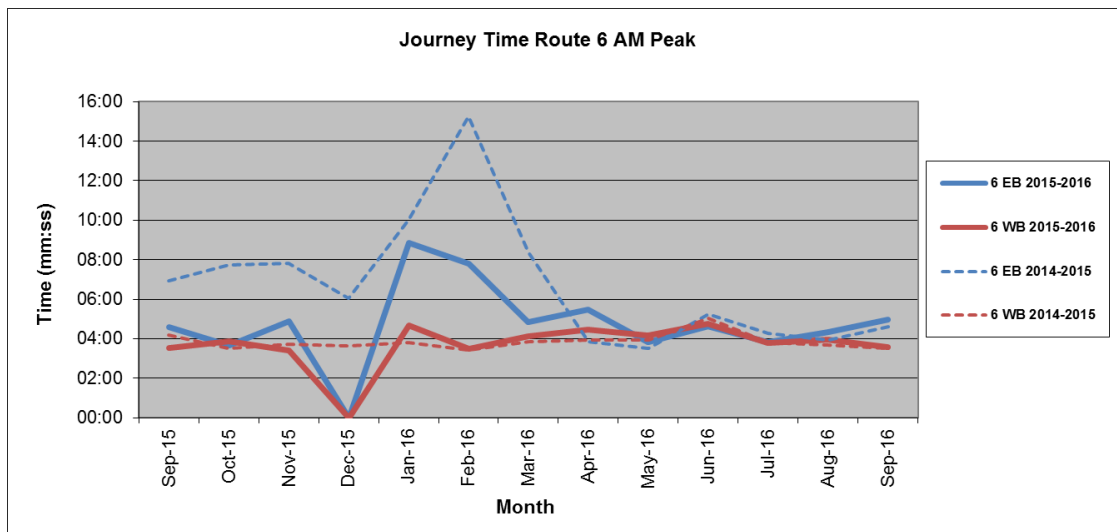


Figure 7-19 Route 6 A8 Gogar Junction to Newbridge Junction AM Peak

Journey times in the westbound direction, in the AM Peak, were generally consistent, between three and five minutes. As shown in Figure 7-19, westbound journey times were also consistent with the previous monitoring period. In the eastbound direction, higher journey times were recorded in January 2016 and February 2016, due to slow moving traffic on the A8 between the airport junction and Gogar.

Table 7-12 Route 6 A8 Gogar Junction to Newbridge Junction PM Peak

Route Description	Date	Eastbound			Westbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 6 - A8 Gogar Junction to Newbridge Junction	Sep-15	1	4.6	00:11:14	1	4.5	00:12:26
	Oct-15	1	4.6	00:04:11	1	4.5	00:04:01
	Nov-15	1	4.6	00:08:12	1	4.5	00:07:20
	Dec-15	Not surveyed					
	Jan-16	1	4.6	00:04:00	1	4.5	00:14:16
	Feb-16	1	4.6	00:05:12	1	4.5	00:08:24
	Mar-16	1	4.6	00:04:48	1	4.5	00:05:28
	Apr-16	1	4.6	00:09:27	1	4.5	00:10:33
	May-16	1	4.6	00:04:38	1	4.5	00:06:29
	Jun-16	1	4.6	00:12:10	1	4.5	00:15:21
	Jul-16	1	4.6	00:05:20	1	4.5	00:08:06
	Aug-16	No Data					
Sep-16	1	4.6	00:05:31	1	4.5	00:12:05	

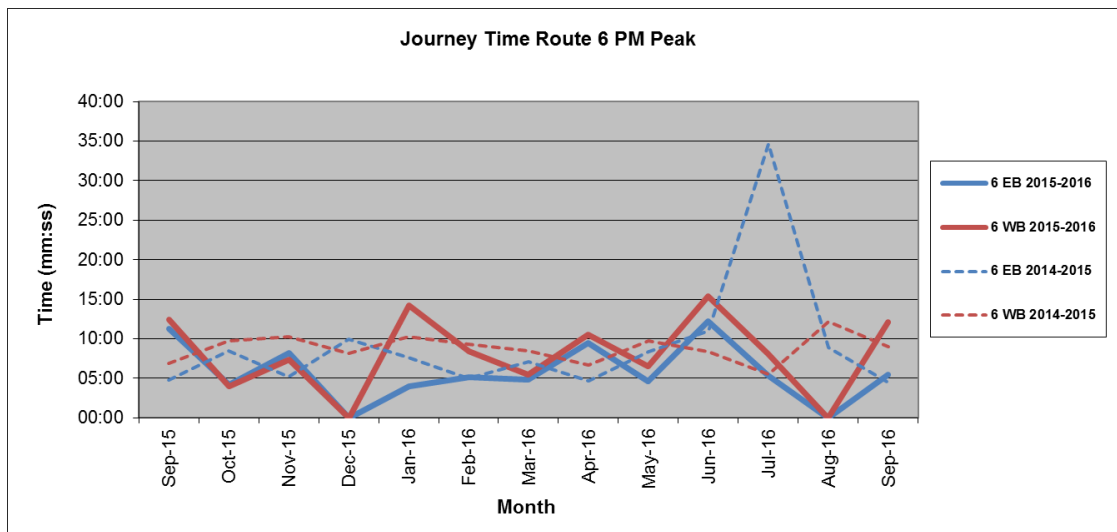


Figure 7-20 Route 6 A8 Gogar Junction to Newbridge Junction PM Peak

In the PM Peak, westbound journey times were generally higher compared to eastbound journey times. Particularly high westbound times of over 15 minutes were recorded in June 2016 and January 2016, due to heavy congestion from the airport to Newbridge.

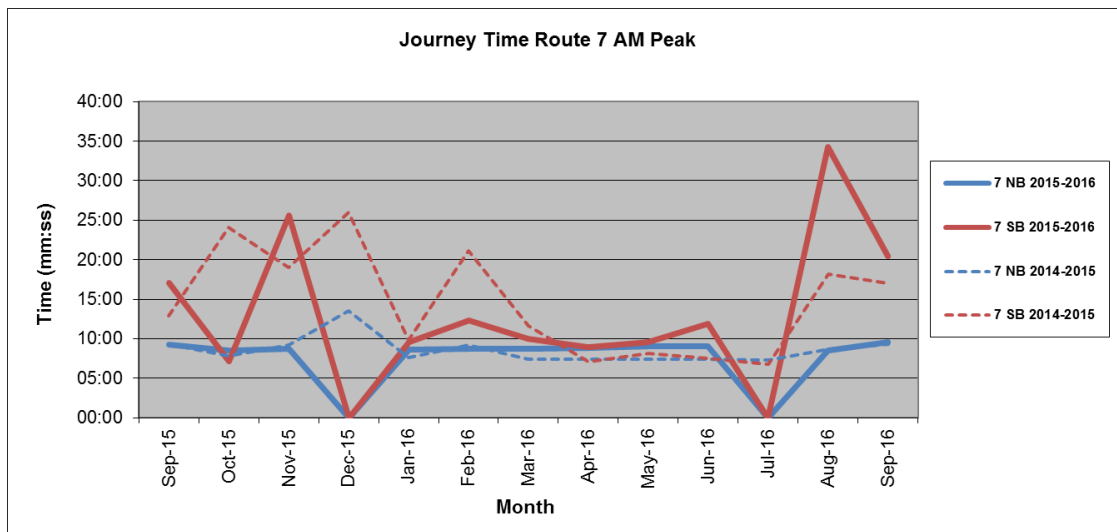
7.8 Route 7 A90 Echline Junction to the M90 Halbeath Junction



Figure 7-21 Route 7 A90 Echline Junction to the M90 Halbeath Junction

Table 7-13 Route 7 A90 Echline Junction to the M90 Halbeath Junction AM Peak

Route Description	Date	Northbound			Southbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 7 - A90 Echline Junction to the M90 Halbeath Junction	Sep-15	4	11.0	00:09:19	3	10.9	00:17:01
	Oct-15	1	11.0	00:08:33	1	10.9	00:07:11
	Nov-15	1	10.9	00:08:42	1	10.9	00:25:40
	Dec-15	Not surveyed					
	Jan-16	1	11.0	00:08:38	1	10.9	00:09:32
	Feb-16	1	11.0	00:08:41	1	10.9	00:12:17
	Mar-16	1	11.0	00:08:41	1	10.9	00:10:01
	Apr-16	1	11.0	00:08:53	1	10.9	00:08:59
	May-16	1	11.0	00:09:00	1	10.9	00:09:33
	Jun-16	1	11.0	00:09:06	1	10.8	00:11:57
	Jul-16	No Data					
	Aug-16	1	11.0	00:08:34	1	10.9	00:34:14
Sep-16	4	11.0	00:09:33	4	10.9	00:20:25	



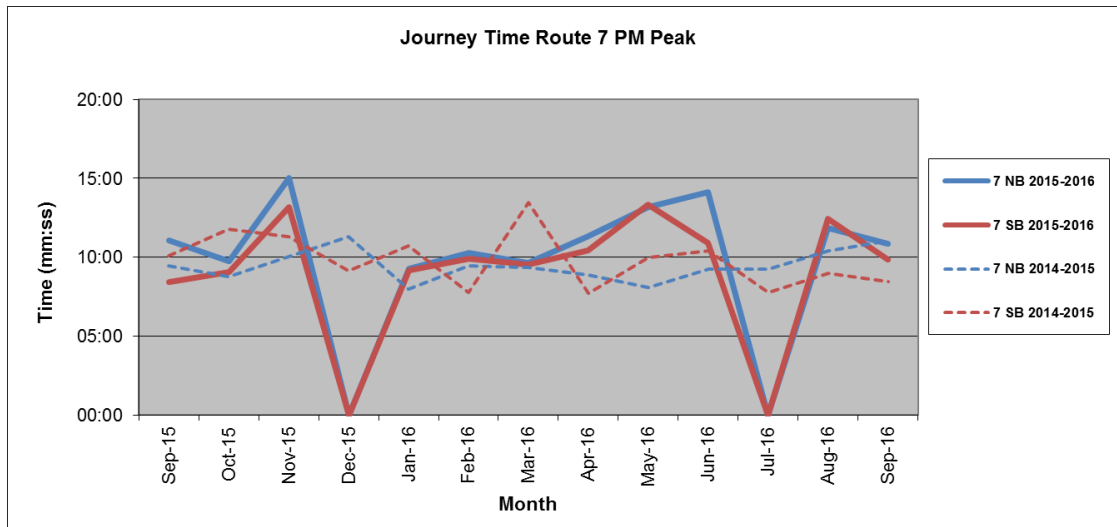
**Figure 7-22 Route 7 A90 Echline Junction to the M90 Halbeath Junction AM Peak**

Northbound journey times were found to be relatively consistent during the AM Peak, within the 2015-2016 monitoring period, with journey times ranging from eight to nine minutes. AM peak, northbound journey times were also consistent with the previous monitoring period, where journey times ranged between six and nine minutes.

In the southbound direction, journey times were fairly consistent, with the exceptions of November 2015 and August 2016. Journey times ranged from just over seven minutes in October 2015, to over 34 minutes in August 2016. This high journey time was due to heavy congestion over the whole route. A high journey time was also recorded in November 2015, due to very slow moving traffic between Junction 2 and the FRB.

**Table 7-14 Route 7 A90 Echline Junction to the M90 Halbeath Junction PM Peak**

Route Description	Date	Northbound			Southbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 7 - A90 Echline Junction to the M90 Halbeath Junction	Sep-15	4	11.0	00:11:04	4	10.9	00:08:27
	Oct-15	1	11.0	00:09:44	1	10.9	00:09:05
	Nov-15	1	11.0	00:15:00	1	10.9	00:13:10
	Dec-15	Not surveyed					
	Jan-16	1	10.9	00:09:15	1	10.9	00:09:11
	Feb-16	1	11.0	00:10:18	1	10.9	00:09:53
	Mar-16	1	11.0	00:09:39	1	10.9	00:09:31
	Apr-16	1	11.0	00:11:20	1	10.9	00:10:26
	May-16	1	11.0	00:13:12	1	10.9	00:13:21
	Jun-16	1	10.9	00:14:09	1	10.9	00:10:56
	Jul-16	No Data					
	Aug-16	1	10.9	00:11:53	1	10.9	00:12:26
	Sep-16	4	11.0	00:10:51	4	10.9	00:09:51



**Figure 7-23 Route 7 A90 Echline Junction to the M90 Halbeath Junction PM Peak**

The PM peak northbound journey times were generally consistent within the 2015-2016 monitoring period, with times ranging between approximately nine and thirteen minutes, with the exceptions of November 2015 and June 2016, when slower moving traffic than usual was encountered on the approach to the FRB. In the southbound direction, journey times were also consistent, with a high time of over 13 minutes recorded in November 2015 and May 2016, due to congestion on the approach to the FRB.



### 7.9 Route 8 A985 between A90 Admiralty Junction and Cairneyhill Roundabout

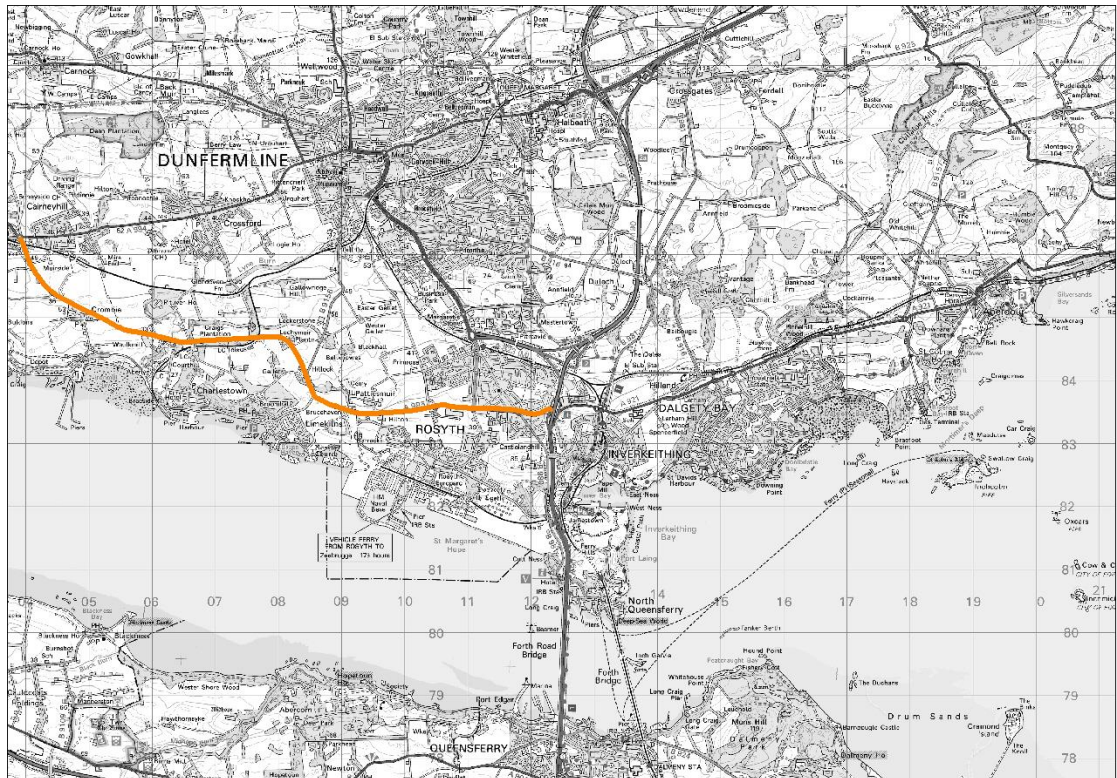


Figure 7-24 Route 8 A985 between A90 Admiralty Junction and Cairneyhill Roundabout

Table 7-15 Route 8 A985 between A90 Admiralty Junction and Cairneyhill Roundabout AM Peak

Route Description	Date	Eastbound			Westbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 8 - A985 between A90 Admiralty Junction and Cairneyhill Roundabout	Sep-15	1	9.5	00:09:31	1	9.5	00:10:33
	Oct-15	1	9.6	00:09:33	1	9.6	00:09:32
	Nov-15	1	9.7	00:12:08	1	9.7	00:12:40
	Dec-15	Not surveyed					
	Jan-16	1	9.7	00:11:21	1	9.7	00:10:08
	Feb-16	1	9.7	00:12:15	1	9.7	00:10:35
	Mar-16	1	9.7	00:10:48	1	9.7	00:11:10
	Apr-16	1	9.7	00:09:58	1	9.7	00:08:37
	May-16	1	9.7	00:10:36	1	9.7	00:10:57
	Jun-16	1	9.6	00:10:15	1	9.7	00:08:49
	Jul-16	No Data					
	Sep-16	1	9.6	00:09:44	1	9.5	00:10:54

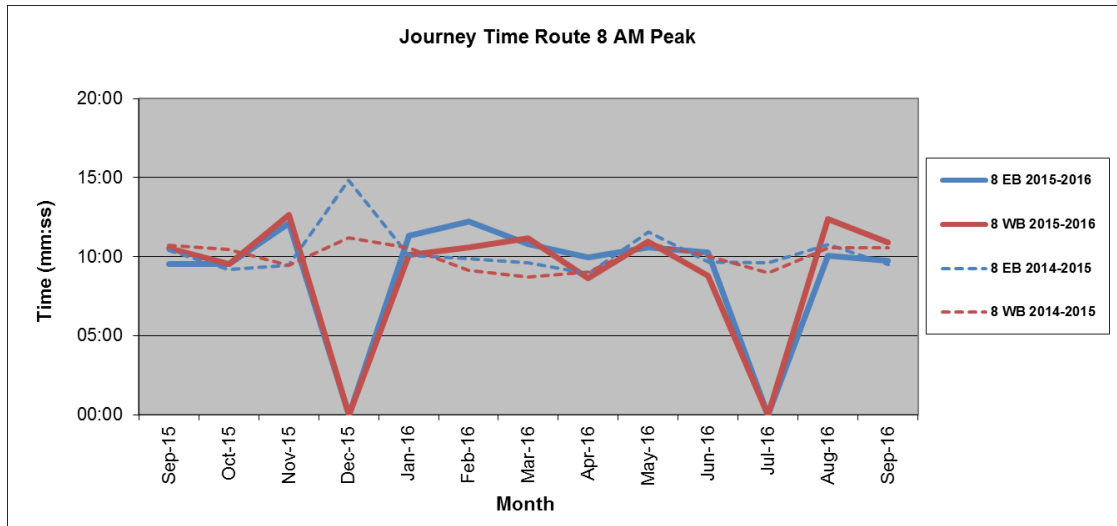
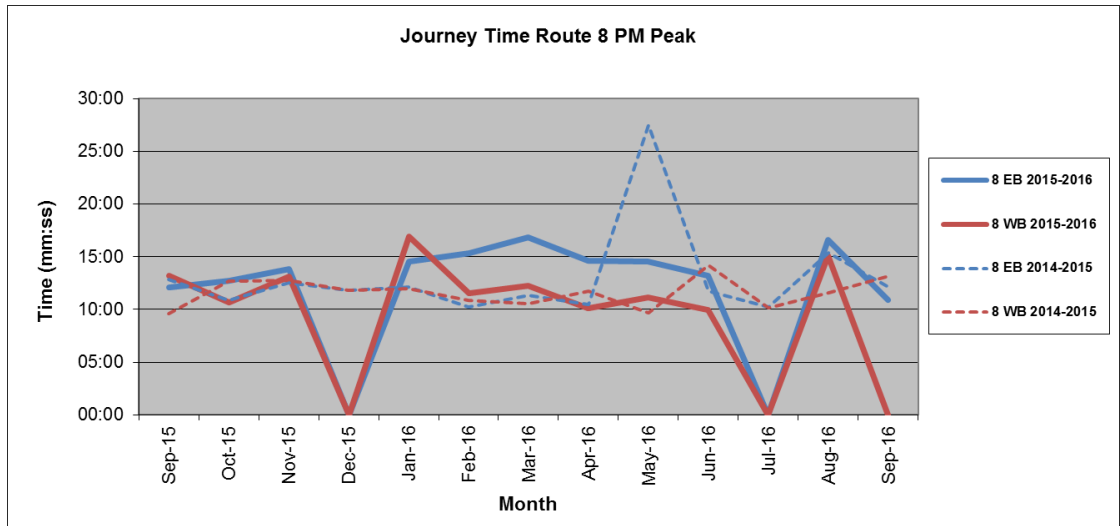


Figure 7-25 Route 8 A985 between A90 Admiralty Junction and Cairneyhill Roundabout AM Peak

As shown in figure 7-25, journey times were generally consistent throughout the monitoring period, with journey times similar to those recorded in 2014-2015 and 2013-2014, with the exceptions of November 2015 and February 2016, in the eastbound direction, when journey times of approximately 12 minutes were recorded due to more congestion than usual on the vicinity of the B9156 junction and through Rosyth.

Table 7-16 Route 8 A985 between A90 Admiralty Junction and Cairneyhill Roundabout PM Peak

Route Description	Date	Eastbound			Westbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 8 - A985 between A90 Admiralty Junction and Cairneyhill Roundabout	Sep-15	1	9.7	00:12:07	1	9.7	00:13:10
	Oct-15	1	9.5	00:12:43	1	9.7	00:10:38
	Nov-15	1	9.7	00:13:50	1	9.7	00:13:06
	Dec-15	Not surveyed					
	Jan-16	1	9.7	00:14:31	1	9.7	00:16:56
	Feb-16	1	9.7	00:15:22	1	9.7	00:11:32
	Mar-16	1	9.7	00:16:51	1	9.7	00:12:17
	Apr-16	1	9.7	00:14:35	1	9.6	00:10:08
	May-16	1	9.4	00:14:31	1	9.5	00:11:08
	Jun-16	1	9.7	00:13:10	1	9.6	00:09:56
	Jul-16	No Data					
	Aug-16	1	9.7	00:16:36	1	9.7	00:15:08
	Sep-16	1	9.6	00:10:56	No Data		



**Figure 7-26 Route 8 A985 between A90 Admiralty Junction and Cairneyhill Roundabout PM Peak**

Journey times were generally consistent throughout the monitoring period in both directions, with the exception of January 2016 in the westbound direction, where congestion was experienced on the A985 likely due to the FRC closure and restrictions to HGV traffic in place on the FRC until mid-February.

### 7.10 Route 9 A994 / A907 between Cairneyhill Roundabout and M90 Halbeath Junction

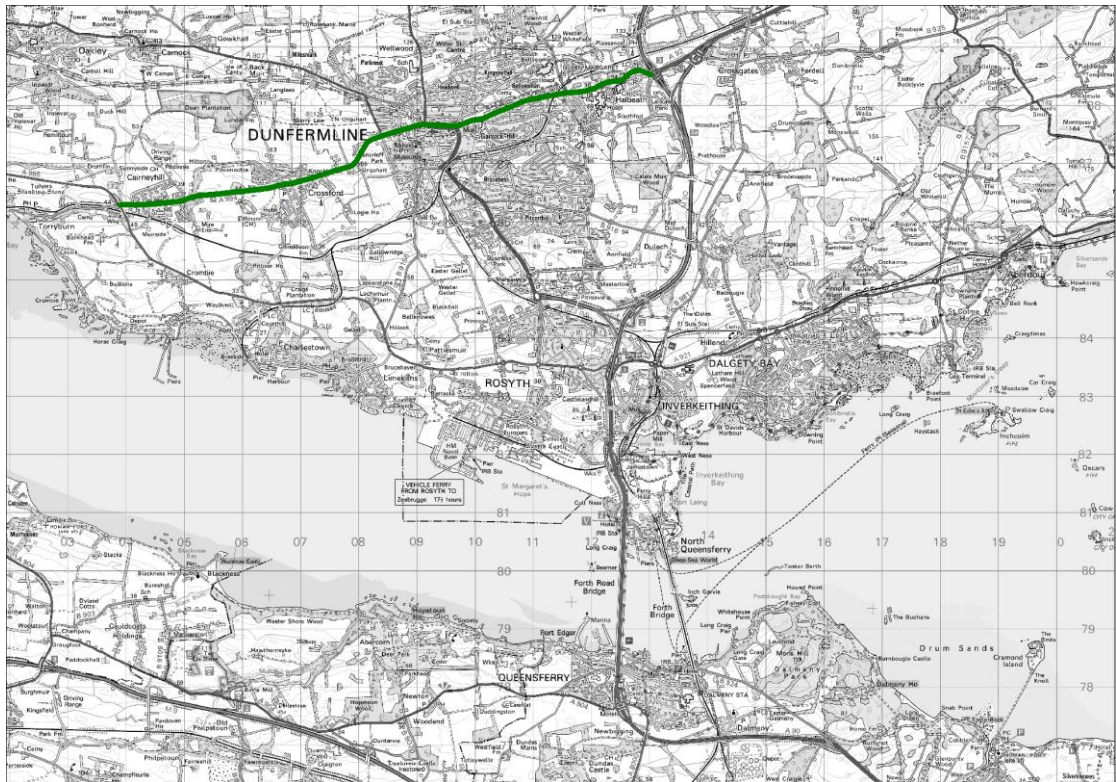


Figure 7-27 Route 9 A994 / A907 between Cairneyhill Roundabout and M90 Halbeath Junction

Table 7-17 Route 9 A994 / A907 between Cairneyhill Roundabout and M90 Halbeath Junction AM Peak

Route Description	Date	Eastbound			Westbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 9 - A994 / A907 between Cairneyhill Roundabout and M90 Halbeath Junction	Sep-15	4	9.7	00:16:58	3	9.7	00:17:05
	Oct-15	1	9.7	00:16:01	1	9.7	00:14:31
	Nov-15	1	9.7	00:17:47	1	9.8	00:18:20
	Dec-15	Not surveyed					
	Jan-16	1	9.7	00:16:21	1	9.8	00:16:24
	Feb-16	1	9.7	00:16:03	1	9.8	00:19:46
	Mar-16	1	9.7	00:16:51	1	9.7	00:16:34
	Apr-16	1	9.7	00:16:13	1	9.8	00:14:42
	May-16	1	9.7	00:16:31	1	9.8	00:13:36
	Jun-16	1	9.7	00:17:29	1	9.7	00:19:28
	Jul-16	No Data					
	Aug-16	1	9.7	00:16:44	1	9.8	00:20:05
	Sep-16	4	9.7	00:18:34	4	9.7	00:15:47

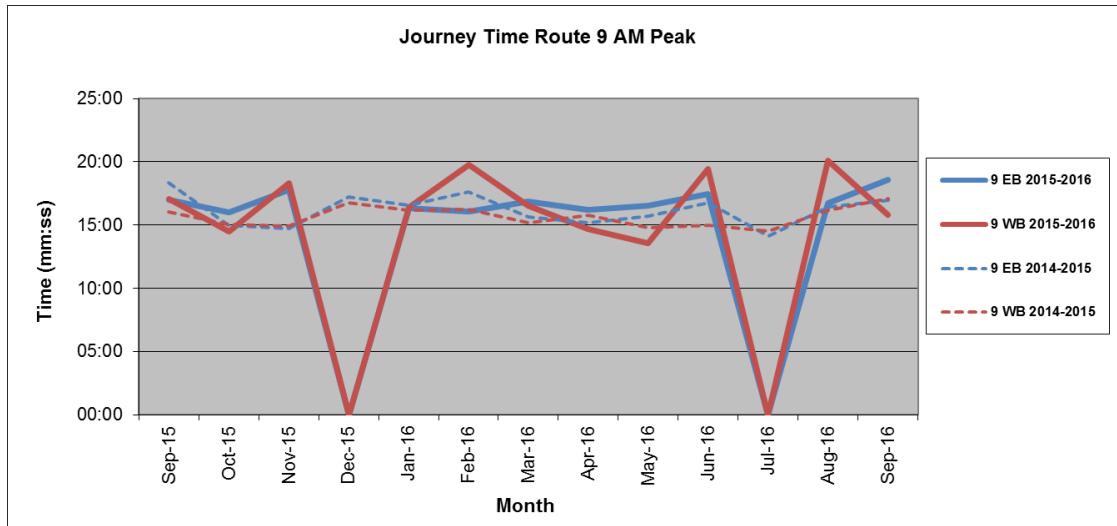
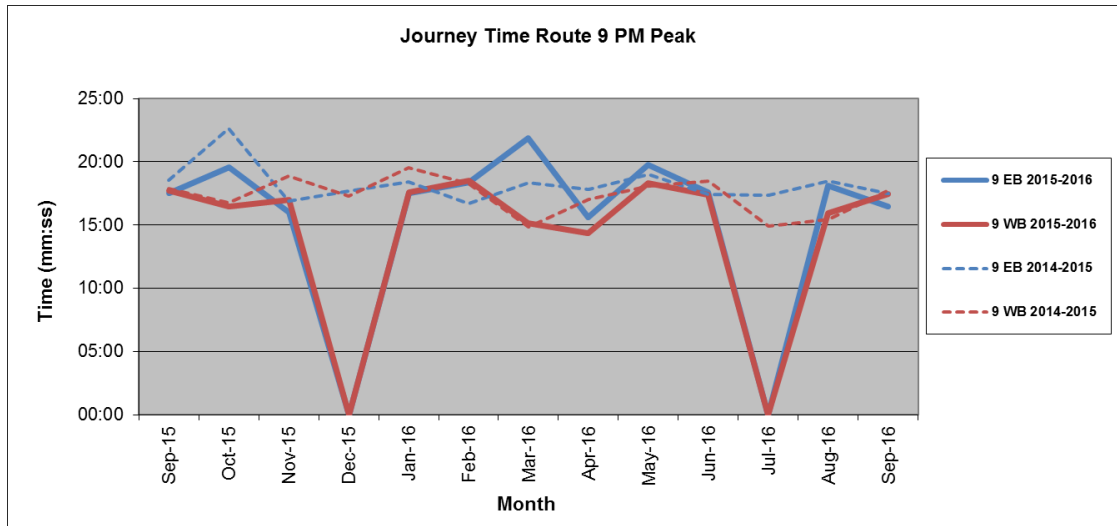


Figure 7-28 Route 9 A994 / A907 between Cairneyhill Roundabout and M90 Halbeath Junction AM Peak

The route encompasses Dunfermline town centre and a number of villages on the outskirts of the town. A variation in journey times can be experienced due to the interaction with signals and junctions along the route. This is reflected in the journey times recorded in both directions, which range from approximately 14 to 18 minutes, and are similar to those recorded in the previous monitoring periods.

Table 7-18 Route 9 A994 / A907 between Cairneyhill Roundabout and M90 Halbeath Junction PM Peak

Route Description	Date	Eastbound			Westbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 9 - A994 / A907 between Cairneyhill Roundabout and M90 Halbeath Junction	Sep-15	3	9.7	00:17:31	4	9.7	00:17:45
	Oct-15	1	9.7	00:19:33	1	9.8	00:16:27
	Nov-15	1	9.7	00:15:59	1	9.8	00:16:58
	Dec-15	Not surveyed					
	Jan-16	1	9.7	00:17:30	1	9.8	00:17:37
	Feb-16	1	9.7	00:18:23	1	9.7	00:18:32
	Mar-16	1	9.7	00:21:53	1	9.8	00:15:10
	Apr-16	1	9.7	00:15:38	1	9.8	00:14:23
	May-16	1	9.6	00:19:48	1	9.7	00:18:19
	Jun-16	1	9.7	00:17:35	1	9.7	00:17:24
	Jul-16	No Data					
	Aug-16	1	9.7	00:18:09	1	9.8	00:15:56
Sep-16	4	9.7	00:16:28	4	9.8	00:17:28	



**Figure 7-29 Route 9 A994 / A907 between Cairneyhill Roundabout and M90 Halbeath Junction PM Peak**

In the PM Peak, the westbound journey times are generally inconsistent, between approximately 14 and 18 minutes. Eastbound journey times were generally more consistent with the exception of March 2016, where congestion was observed at Halbeath Road. Similar to the AM Peak, the interaction with traffic signals and queuing at junctions, results in variations in journey times.

7.11 Route 10 A823 (M) between the A907 and M90 Masterton Junction



Figure 7-30 Route 10 A823 (M) between the A907 and M90 Masterton Junction

Table 7-19 Route 10 A823 (M) between the A907 and M90 Masterton Junction AM Peak

Route Description	Date	Northbound			Southbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 10 - A823 (M) between the A907 and M90 Masterton Junction	Sep-15	1	4.5	00:07:06	1	4.9	00:06:05
	Oct-15	1	4.6	00:06:11	1	4.9	00:05:55
	Nov-15	1	4.5	00:08:11	1	4.9	00:06:42
	Dec-15	Not surveyed					
	Jan-16	1	4.5	00:07:13	1	4.9	00:05:47
	Feb-16	1	4.6	00:06:44	1	4.9	00:06:39
	Mar-16	1	4.6	00:06:12	1	4.9	00:06:05
	Apr-16	1	4.5	00:07:25	1	4.9	00:06:49
	May-16	1	4.5	00:07:04	1	4.9	00:07:31
	Jun-16	1	4.5	00:06:23	1	4.9	00:06:00
	Jul-16	No Data					
	Aug-16	1	4.6	00:07:46	1	4.9	00:07:09
Sep-16	1	4.6	00:07:29	1	4.9	00:06:40	

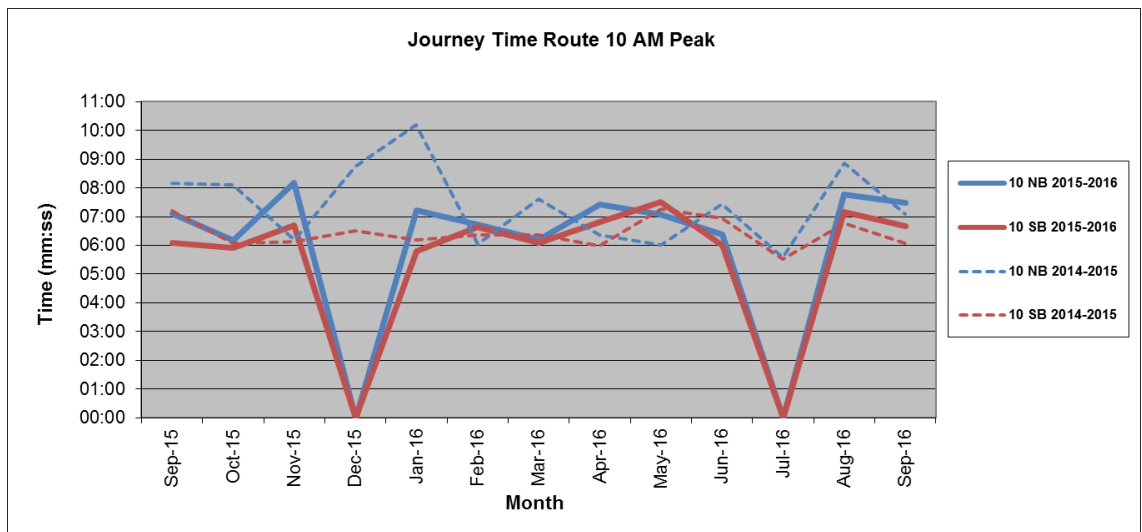


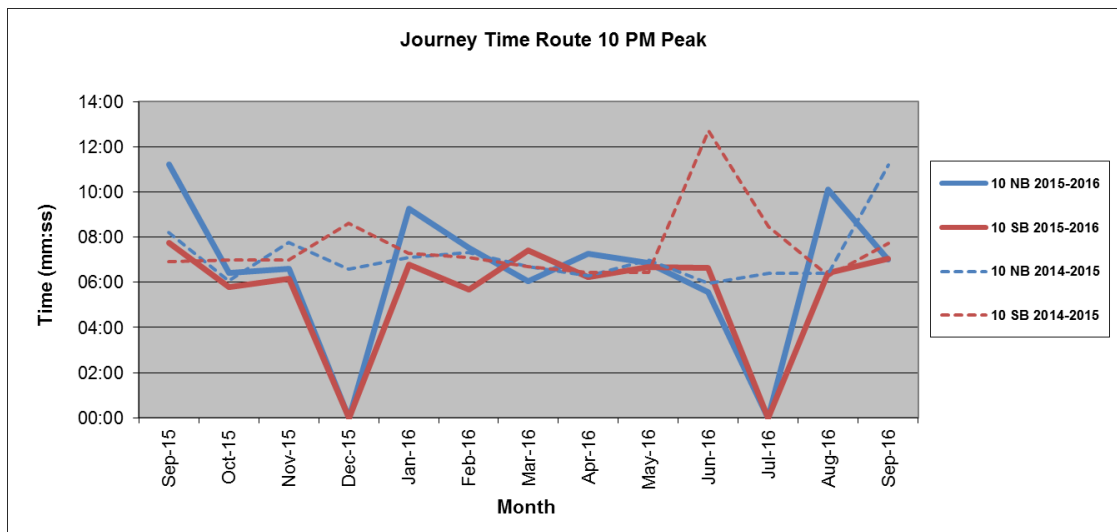
Figure 7-31 Route 10 A823 (M) between the A907 and M90 Masterton Junction AM Peak

Route 10 is similar to Route 9 in that it is also made up of a relatively congested urban network, with a number of signalised junctions and roundabouts. This is evident in Figure 7-31 as there is noticeable variation in northbound journey times in the 2014-2015 monitoring period. It is also noticeable that the AM Peak, northbound journey times in the period 2015-2016 have been more consistent, with journey times in the range of just over six minutes in March 2016, to just over eight minutes in November 2015. Southbound journey times in the AM Peak also show consistency during the 2015-2016 and 2014-2015 monitoring periods.

Table 7-20 Route 10 A823 (M) between the A907 and M90 Masterton Junction PM Peak

Route Description	Date	Northbound			Southbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 10 - A823 (M) between the A907 and M90 Masterton Junction	Sep-15	1	4.5	00:11:12	1	4.9	00:07:44
	Oct-15	1	4.6	00:06:24	1	4.9	00:05:47
	Nov-15	1	4.6	00:06:36	1	4.9	00:06:09
	Dec-15	Not surveyed					
	Jan-16	1	4.6	00:09:15	1	4.9	00:06:47
	Feb-16	1	4.6	00:07:32	1	4.9	00:05:40
	Mar-16	1	4.6	00:06:04	1	4.9	00:07:25
	Apr-16	1	4.5	00:07:15	1	4.9	00:06:13
	May-16	1	4.5	00:06:51	1	4.9	00:06:40
	Jun-16	1	4.5	00:05:35	1	4.9	00:06:39
	Jul-16	No Data					
	Aug-16	1	4.6	00:10:07	1	4.9	00:06:25
Sep-16	1	4.5	00:07:00	1	4.9	00:07:03	





**Figure 7-32 Route 10 A823 (M) between the A907 and M90 Masterton Junction PM Peak**

Journey times in the PM Peak were generally consistent in both directions, between approximately six and eight minutes, with the exception of the northbound journey time in September 2015, when a time of approximately 11 minutes was recorded. This was due to queues on the approach to the Queensferry Road Roundabout. The PM Peak northbound journey time recorded in August 2016 was also higher than the average, due to congestion on the A90. In the southbound direction, journey times in the 2015-2016 were generally more consistent compared to the previous monitoring period, where a lane closure associated with roadworks on Queensferry Road caused a high journey time observation in June 2015.

7.12 Route 11 A921 between the B9157 and A90 Admiralty Junction

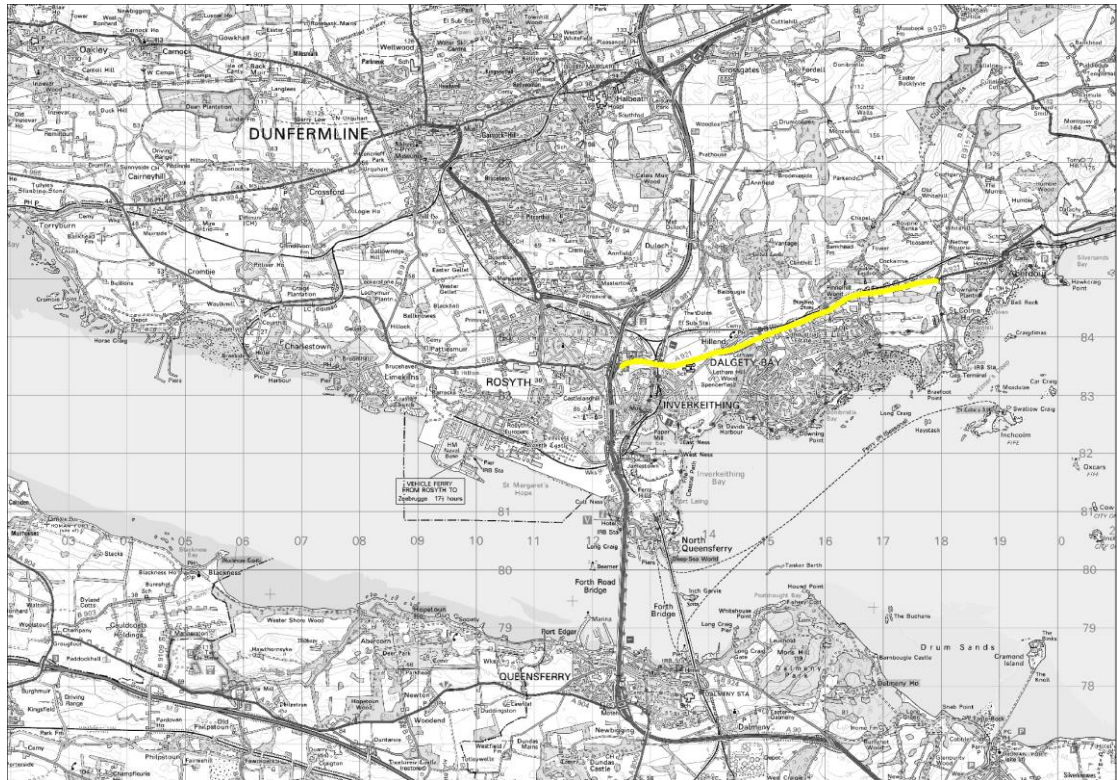


Figure 7-33 Route 11 A921 between the B9157 and A90 Admiralty Junction

Table 7-21 Route 11 A921 between the B9157 and A90 Admiralty Junction AM Peak

Route Description	Date	Eastbound			Westbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 11 - A921 between the B9157 and A90 Admiralty Junction	Sep-15	1	5.7	00:05:43	1	5.6	00:06:38
	Oct-15	1	5.7	00:05:37	1	5.7	00:06:05
	Nov-15	1	5.8	00:05:42	1	5.7	00:08:39
	Dec-15	Not surveyed					
	Jan-16	1	5.8	00:05:53	1	5.8	00:06:40
	Feb-16	1	5.8	00:06:10	1	5.8	00:06:34
	Mar-16	1	5.8	00:05:55	1	5.7	00:06:37
	Apr-16	1	5.8	00:07:01	1	5.8	00:06:09
	May-16	1	5.8	00:05:56	1	5.7	00:07:16
	Jun-16	1	5.7	00:06:05	1	5.7	00:06:47
	Jul-16	No Data					
	Aug-16	1	5.8	00:06:16	1	5.8	00:07:17
Sep-16	1	5.7	00:06:00	1	5.7	00:07:16	

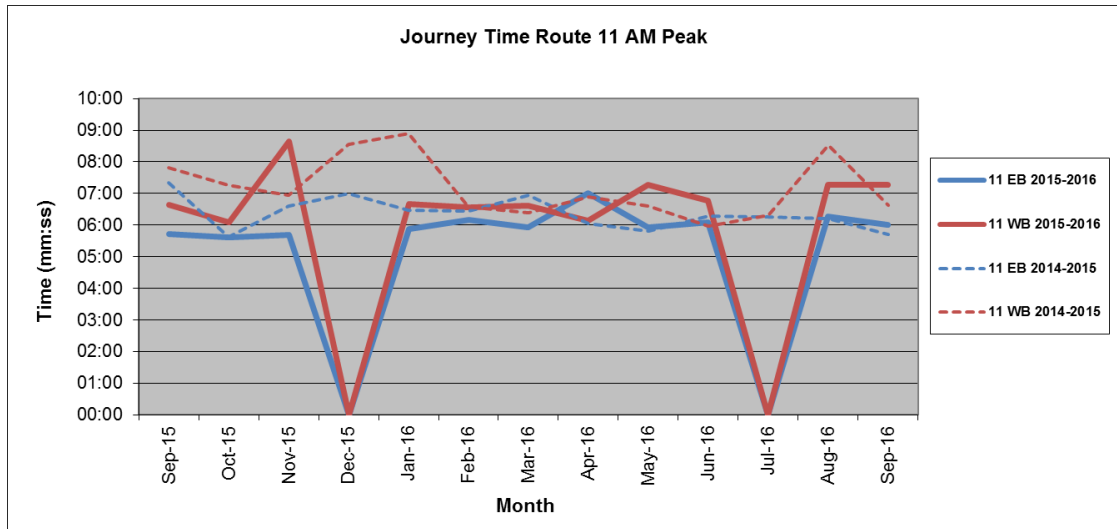
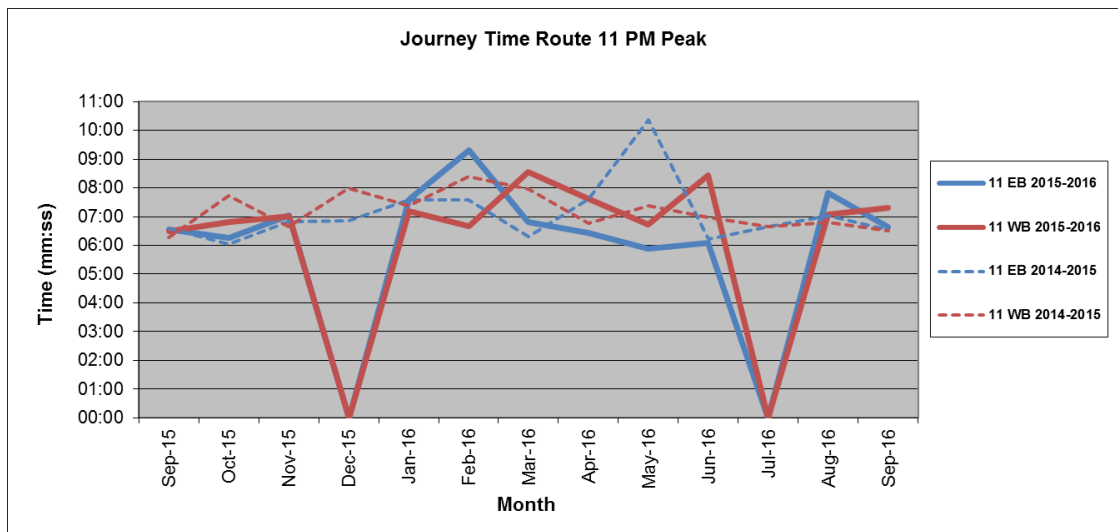


Figure 7-34 Route 11 A921 between the B9157 and A90 Admiralty Junction AM Peak

Journey times in both directions, during the 2015-2016 AM Peak, are within the range of five to eight minutes, and are consistent with the previous monitoring period, as shown in Figure 7-34.

Table 7-22 Route 11 A921 between the B9157 and A90 Admiralty Junction PM Peak

Route Description	Date	Eastbound			Westbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 11 - A921 between the B9157 and A90 Admiralty Junction	Sep-15	1	5.8	00:06:33	1	5.8	00:06:30
	Oct-15	1	5.8	00:06:15	1	5.7	00:06:49
	Nov-15	1	5.8	00:07:03	1	5.8	00:07:01
	Dec-15	Not surveyed					
	Jan-16	1	5.8	00:07:36	1	5.8	00:07:11
	Feb-16	1	5.8	00:09:19	1	5.8	00:06:40
	Mar-16	1	5.8	00:06:48	1	5.8	00:08:33
	Apr-16	1	5.7	00:06:26	1	5.8	00:07:38
	May-16	1	5.7	00:05:53	1	5.7	00:06:43
	Jun-16	1	5.7	00:06:06	1	5.8	00:08:27
	Jul-16	No Data					
	Aug-16	1	5.8	00:07:50	1	5.8	00:07:05
Sep-16	1	5.8	00:06:38	1	5.8	00:07:18	



**Figure 7-35 Route 11 A921 between the B9157 and A90 Admiralty Junction PM Peak**

Journey times in both directions were generally consistent in the PM Peak, between six and eight minutes, with the exception of February 2016 in the eastbound direction, when a time of over 9 minutes was recorded, due to queuing reported towards Chapel Place.

7.13 Route 12 B981 between A92 and A90 Admiralty Junction



Figure 7-36 Route 12 B981 between A92 and A90 Admiralty Junction

Table 7-23 Route 12 B981 between A92 and A90 Admiralty Junction AM Peak

Route Description	Date	Northbound			Southbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 12 - B981 between A92 and A90 Admiralty Junction	Sep-15	1	6.7	00:08:11	1	6.7	00:07:41
	Oct-15	1	6.8	00:07:13	1	7.0	00:07:38
	Nov-15	1	6.9	00:07:37	1	7.0	00:07:57
	Dec-15	Not surveyed					
	Jan-16	1	7.0	00:08:07	1	7.1	00:07:50
	Feb-16	1	6.8	00:07:34	1	7.1	00:07:08
	Mar-16	1	6.8	00:08:05	1	6.9	00:07:40
	Apr-16	1	6.8	00:08:47	1	6.9	00:08:40
	May-16	1	6.8	00:08:22	1	6.9	00:09:06
	Jun-16	1	6.7	00:07:53	1	6.9	00:08:58
	Jul-16	No Data					
	Aug-16	1	6.7	00:08:02	1	6.8	00:07:38
Sep-16	1	6.8	00:07:26	1	7.0	00:07:20	

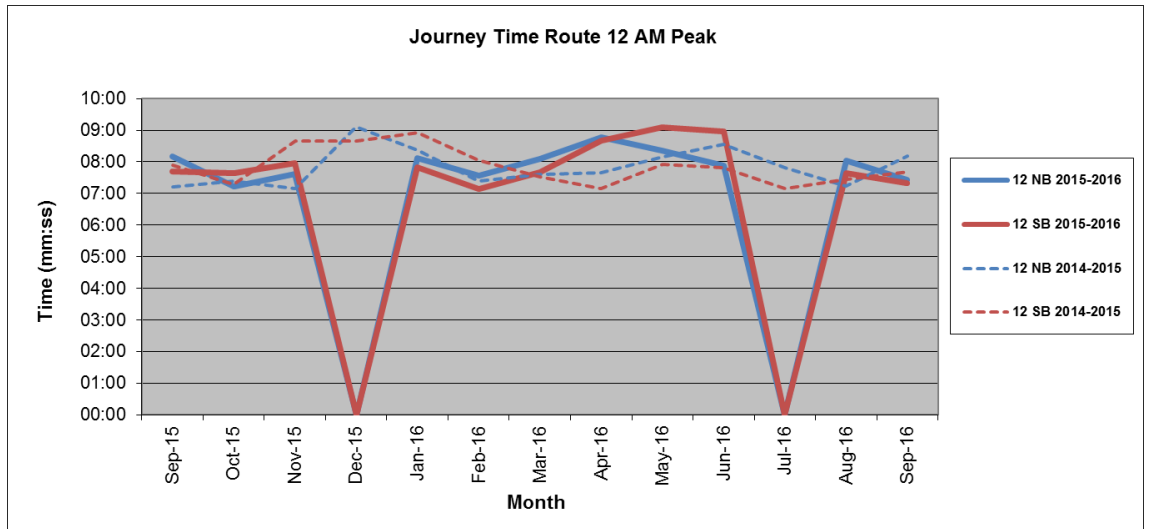
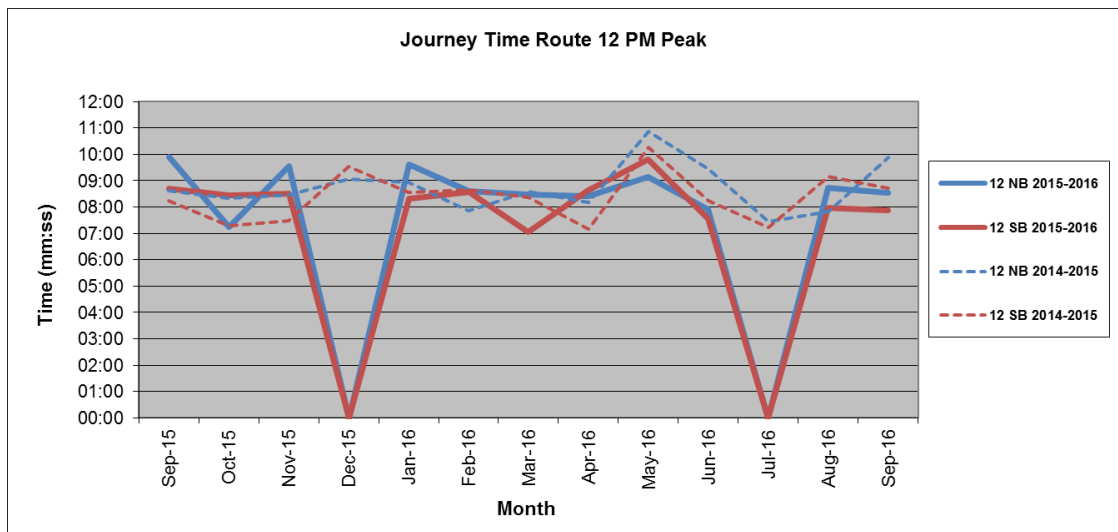


Figure 7-37 Route 12 B981 between A92 and A90 Admiralty Junction AM Peak

As shown in Figure 7-37, journey times in both directions were generally consistent in the AM peak, during 2015-2016 and 2014-2015, ranging between approximately seven and nine minutes.

Table 7-24 Route 12 B981 between A92 and A90 Admiralty Junction PM Peak

Route Description	Date	Northbound			Southbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 12 - B981 between A92 and A90 Admiralty Junction	Sep-15	1	7.0	00:09:54	1	7.1	00:08:42
	Oct-15	1	7.0	00:07:15	1	7.1	00:08:27
	Nov-15	1	6.9	00:09:34	1	6.9	00:08:30
	Dec-15	Not surveyed					
	Jan-16	1	6.7	00:09:37	1	6.8	00:08:20
	Feb-16	1	6.9	00:08:37	1	7.0	00:08:35
	Mar-16	1	6.9	00:08:28	1	7.0	00:07:04
	Apr-16	1	6.9	00:08:25	1	6.9	00:08:39
	May-16	1	6.7	00:09:08	1	6.8	00:09:49
	Jun-16	1	6.8	00:07:54	1	6.9	00:07:34
	Jul-16	No Data					
	Aug-16	1	7.0	00:08:44	1	7.0	00:07:59
	Sep-16	1	7.0	00:08:32	1	7.0	00:07:53



**Figure 7-38 Route 12 B981 between A92 and A90 Admiralty Junction PM Peak**

In the PM Peak, journey times were also generally consistent, between seven and nine minutes. Relatively high journey times of almost 10 minutes were recorded in the northbound direction, in January 2016, and in the southbound direction, in May 2016.

### 7.14 Route 13 A904 Old Philpstoun to Echline Junction

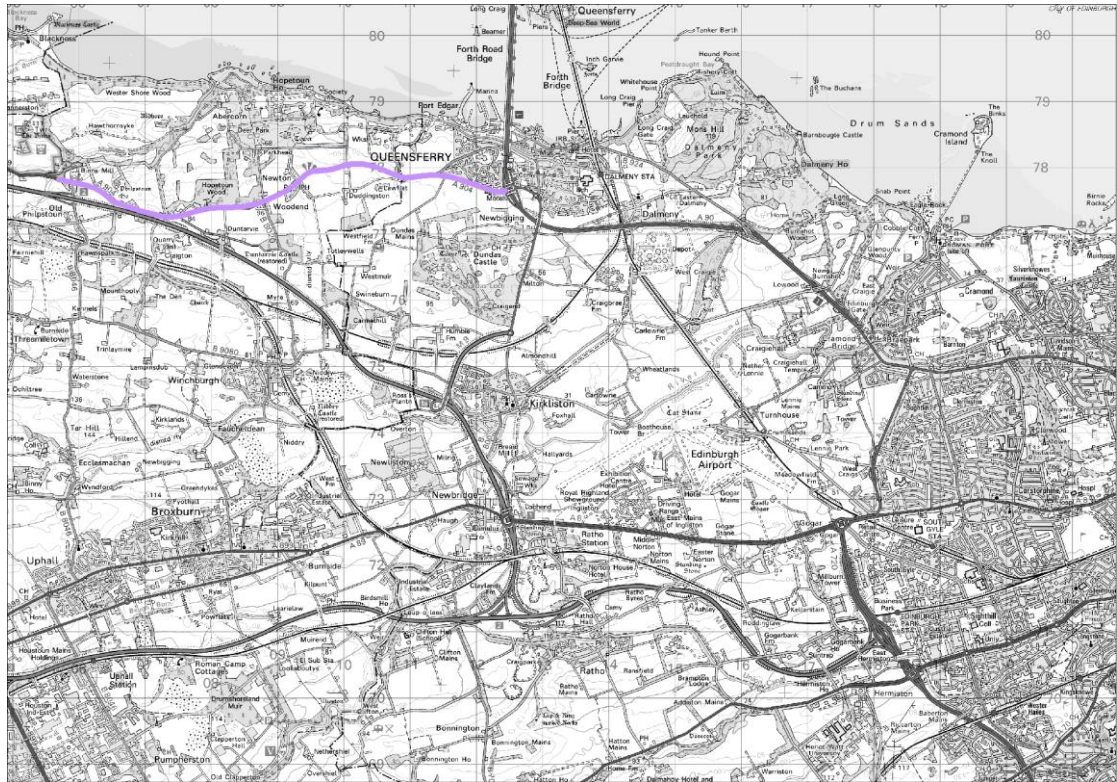


Figure 7-39 Route 13 A904 Old Philpstoun to Echline Junction

Table 7-25 Route 13 A904 Old Philpstoun to Echline Junction AM Peak

Route Description	Date	Eastbound			Westbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 13 - A904 Old Philpstoun to Echline Junction	Sep-15	1	7.0	00:07:23	1	7.0	00:07:01
	Oct-15	1	7.0	00:06:52	1	7.0	00:06:17
	Nov-15	1	7.0	00:07:55	1	7.0	00:06:48
	Dec-15	Not surveyed					
	Jan-16	1	7.0	00:06:51	1	6.9	00:06:47
	Feb-16	1	7.0	00:08:16	1	7.0	00:06:41
	Mar-16	1	7.0	00:07:10	1	7.0	00:07:14
	Apr-16	1	7.0	00:08:10	1	7.0	00:07:39
	May-16	1	7.0	00:07:44	1	7.0	00:07:01
	Jun-16	1	7.0	00:08:42	1	7.0	00:07:49
	Jul-16	1	7.0	00:07:19	1	7.0	00:09:31
	Aug-16	1	7.0	00:07:10	1	7.0	00:06:45
Sep-16	1	7.0	00:07:53	1	7.0	00:06:55	



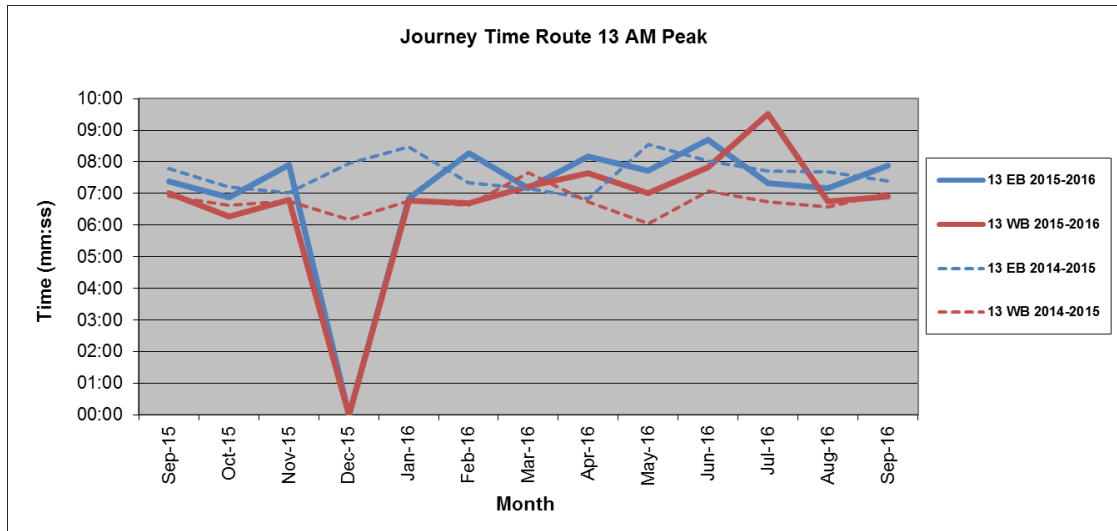
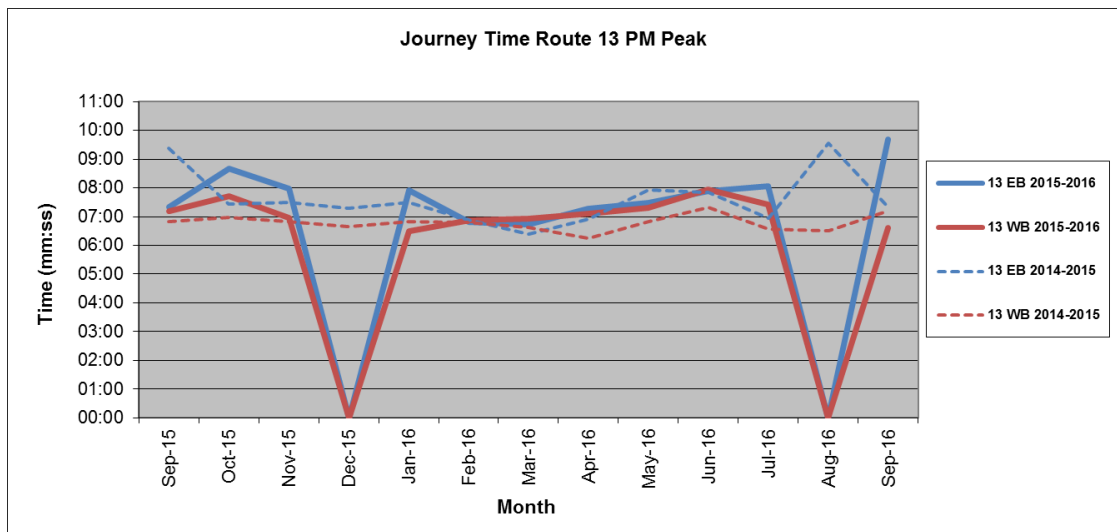


Figure 7-40 Route 13 A904 Old Philpstoun to Echline Junction AM Peak

In the AM Peak, journey times were more consistent in both directions, generally falling within the range of six to eight minutes. A higher than average time was recorded in July 2016, in the westbound direction, when slow speeds were experienced, due to resurfacing works. Traffic was generally found to be free flowing throughout the monitoring period.

Table 7-26 Route 13 A904 Old Philpstoun to Echline Junction PM Peak

Route Description	Date	Eastbound			Westbound		
		No. of Runs	Ave. Distance (KM)	Ave. Time	No. of Runs	Ave. Distance (KM)	Ave. Time
Route 13 - A904 Old Philpstoun to Echline Junction	Sep-15	1	7.0	00:07:20	1	7.0	00:07:12
	Oct-15	1	7.0	00:08:41	1	6.9	00:07:43
	Nov-15	1	6.9	00:07:59	1	7.0	00:06:58
	Dec-15	Not surveyed					
	Jan-16	1	7.0	00:07:55	1	7.0	00:06:30
	Feb-16	1	7.0	00:06:49	1	7.0	00:06:53
	Mar-16	1	7.0	00:06:43	1	7.0	00:06:56
	Apr-16	1	7.0	00:07:17	1	7.0	00:07:07
	May-16	1	7.0	00:07:29	1	7.0	00:07:18
	Jun-16	1	7.0	00:07:54	1	7.0	00:07:57
	Jul-16	1	7.0	00:08:04	1	7.0	00:07:25
	Aug-16	No Data					
Sep-16	1	7.0	00:09:41	1	7.0	00:06:36	



**Figure 7-41 Route 13 A904 Old Philpstoun to Echline Junction PM Peak**

In the PM Peak, journey times were generally consistent in both directions, with the exception of October 2015 and September 2016, in the eastbound direction. Queuing on the approach to Echline Junction was the likely cause of these high journey times.



## Appendix A Automatic Traffic Counter Locations



Figure A-1 Automatic Traffic Counter Locations – Kincardine/Stirling Area



Figure A-2 Automatic Traffic Counter Locations – Halbeath Area (Fife)



Figure A-3 Automatic Traffic Counter Locations – Rosyth Area (Fife)



Figure A-4 Automatic Traffic Counter Locations – Philpstoun and Echline (Edinburgh)



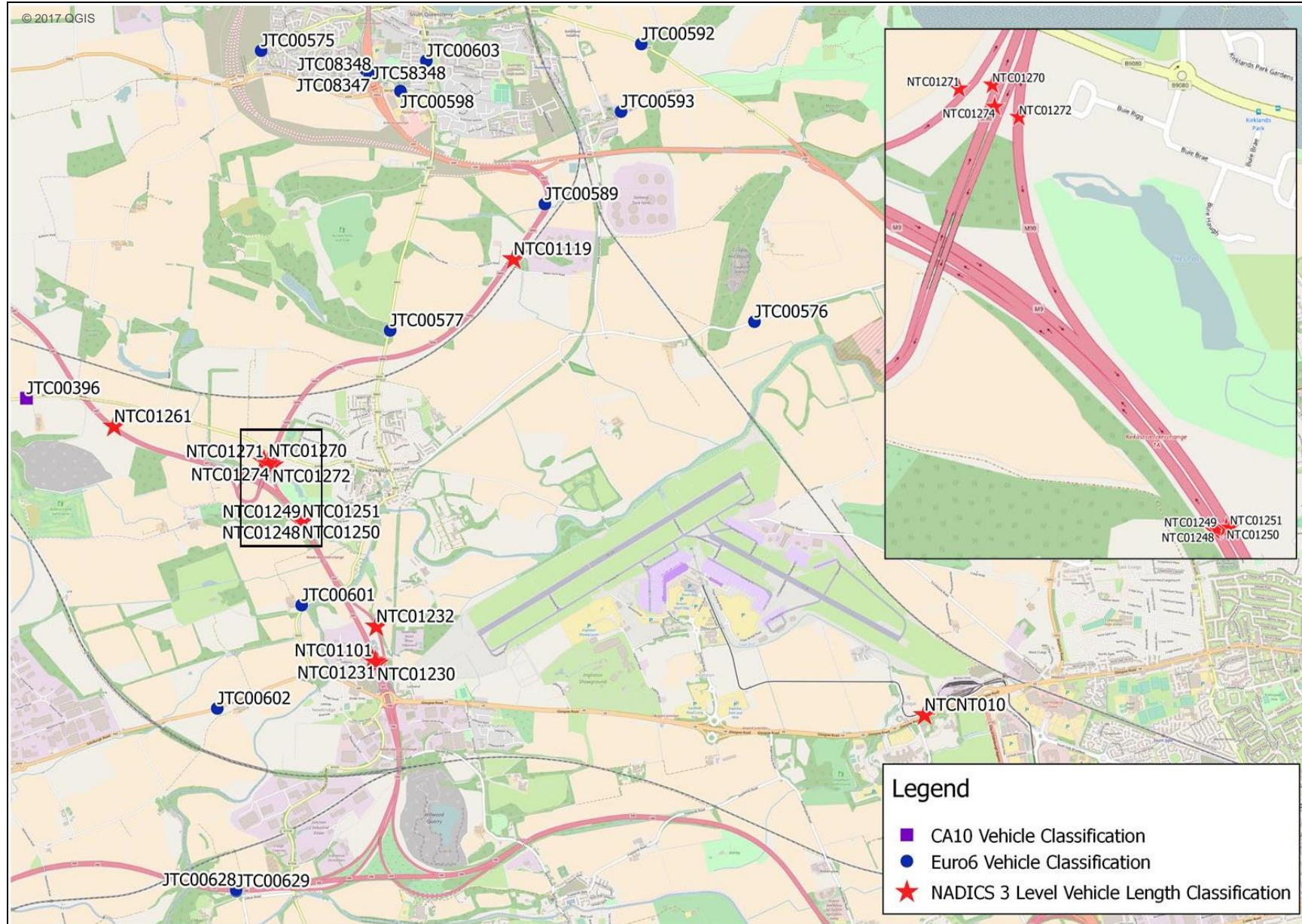


Figure A-5 Automatic Traffic Counter Locations – Edinburgh Area



## Appendix B Breakdown of vehicles classes for each classification system (reported as HGV highlighted in bold font)

### A. Euro6 vehicle classification system

Class	Description
1	Motorbike
2	Car / Small Van <5.2 metres
3	Car / Small Van <5.2 metres with Trailer
4	Rigid HGV / Large Van
5	<b>Rigid HGV + Trailer / Standard Articulated (Cab + Trailer)</b>
6	<b>Bus / Coach</b>

### B. CA10 vehicle classification system

Class	Description
1	Motorbike
2	Car / Small Van <5.2 metres
3	Car / Small Van <5.2 metres with Trailer
4	Rigid HGV / Large Van
5	Rigid HGV / Large Van
6	Rigid HGV / Large Van
7	<b>Rigid HGV + Trailer</b>
8	<b>Standard Articulated (Cab + Trailer)</b>
9	Rigid HGV
10	<b>Bus / Coach</b>

### C. NADICS 3 Level Vehicle Length Classification

Class	Description
S	Short
M	Medium
L	<b>Long</b>

**Appendix C Classification system by counter**

Counter	Euro6	CA10 (From April 2016)	NADICS 3 Level
JTC00068	✓		
JTC00439	✓		
JTC06460	✓		
JTC00479	✓		
JTC00589	✓		
JTC00590	✓		
JTC06450	✓		
JTC05479	✓		
JTC06311	✓		
JTC06322	✓		
JTC00628	✓		
JTC00629	✓		
JTC00570	✓		
JTC08347	✓		
JTC58347	✓		
JTC00573	✓		
JTC00507	✓		
JTC00578	✓		
JTC00574	✓		
JTC00602	✓		
JTC00584	✓		
JTC00604	✓		
JTC00605	✓		
JTC00606	✓		
JTC00607	✓		
JTC00608	✓		
JTC00598	✓		
JTC00577	✓		
JTC00575	✓		
JTC00581	✓		
JTC00582	✓		
JTC00583	✓		
JTC00586	✓		
JTC00601	✓		
JTC00600	✓		
JTC00603	✓		
JTC00599	✓		
JTC00591	✓		
JTC00592	✓		
JTC00595	✓		

JTC00576	✓		
JTC00580	✓		
JTC00585	✓		
JTC00587	✓		
JTC00593	✓		
JTC00596	✓		
JTC00597	✓		
JTC08348	✓	✓	
JTC58348	✓	✓	
JTC00318	✓	✓	
JTC00395	✓	✓	
JTC00396	✓	✓	
JTC00392	✓	✓	
JTC00579	✓	✓	
JTC00594	✓	✓	
JTC00588	✓	✓	
NTC01051			✓
NTC01050			✓
NTCNT005			✓
NTCPF019E			✓
NTCPF019W			✓
NTC01230			✓
NTC01101			✓
NTC01148			✓
NTC01152			✓
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NTC01250			✓
NTC01251			✓
NTC01173			✓
NTC01174			✓
NTC00802			✓
NTC00803			✓
NTCNT010E			✓
NTCNT010W			✓
NTC01119			✓