TDIR21/97 - RTI-1550 - Gold Coast Light Rail (GCLR)

1. Gold Coast Light Rail (GCLR) annual passenger trips from 2014 to 2021, including the following:

a) Total annual seat capacity of GCLR services

b) Total annual percentage of passengers V seat capacity on GCLR services

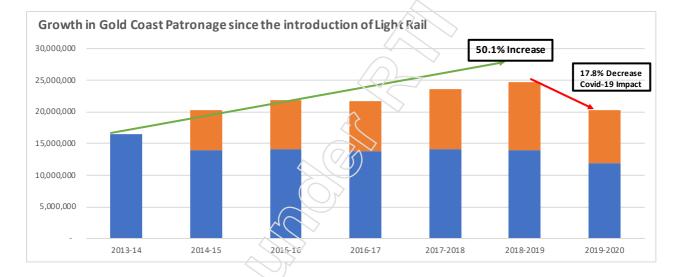
2. Total annual passenger trips for Gold Coast Surfside buses from 2014 to 2021.

Financial Year Results	2013-14	2014-15	2015-16	2016-17	2017-2018	2018-2019	2019-2020
GCLR Passenger Trips	Not Launched	6,277,774	7,676,392	7,975,234	9,486,853	10,743,025	8,464,439
GCLR Available Seats		6,826,070	7,180,160	7,180,160	7,416,949	7,621,120	7,621,120
PAX as % of seat capacity		92%	107%	111%	128%	141%	111%

	-	-		-	^		
Financial Year Results	2013-14	2014-15	2015-16	2016-17	2017-2018	2018-2019	2019-2020
GC Surfside Bus Trips	16,487,359	14,001,393	14,153,467	13,747,494	14,073,612	13,999,910	11,866,194
GCLR Tram Trips	-	6,277,774	7,676,392	7,975,234	9,486,853	10 743,025	8,464,439
TOTAL	16,487,359	20,279,167	21,829,859	21,722,728	23,560,465	24,742,935	20,330,633
Increase in trips	-	3,791,808	5,342,500	5,235,369	7,073,105	8,255,576	
						50.1%	

Decrease in trips - Covid-19 Impact

4,412,302 -17.8%



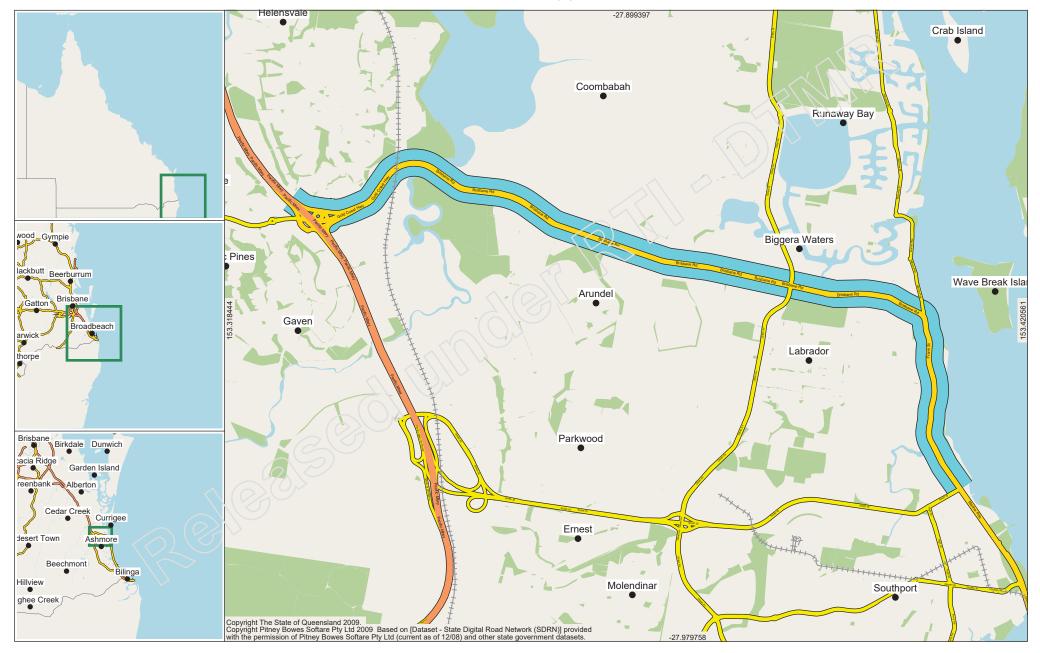
Notes

Trip figures, all years, <u>excludes</u> 'free' ticketed events. Eg: Comm Games 2018, GC600, GC Marathon, Football Games, Concerts etc TransLink reports patronage trips by financial year and the numbers above ore consistent with this reporting format COVID-19 has impacted trips since March 2020 and is represented as lower trip numbers in 2019/20 Capacity values have been totalled and averaged by using a standard puolished timetable operating week, multiplied by 52 weeks 2017/18 tram capacity is 169 days for the Stage 1 timetable capacity, plus adding 196 days of Stage 1&2 timetable capacity All totals and % of capacity are annual average totalled values, when operating the contracted published GCIR timetable



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Road Segments Summary - All Vehicles

	Segment	Segment					AADT		١	/KT (Million	s)	Data	2
Region	Start Tdist	End Tdist	Site	Site Tdist	Description	G	A	В	G	Α	В	Year	Page
410	0.000 km	4.040 km	10007	3.310 km	300m west of Marble Arch PI Int- SS 5185	20,817	26,629	47,446	30.69675	39.26712	69.36387	2013	2
410	4.040 km	6.980 km	11395	6.170 km	Between Telford PI and Ereton Dr	14,160	17,888	32,048	15.19510	19.19561	34.39071	2013	3
410	6.980 km	8.740 km	12167	7.480 km	Biggera Creek Bridge	12,927	16,501	29,428	8.30430	10.60024	18.90455	2013	4
410	8.740 km	11.290 km	11589	10.260 km	30m south of Bradford St	12,159	13,488	25,647	11.31699	12.55396	23.87095	2013	5
								Totals	65.51314	81.61693	147.13007		

Road Segments Summary - Heavy Vehicles only

VKT totals are calculated only if traffic class data is available fc; all sites.

							HV AADT									
	Segment	Segment					G		4	М в	3	HV	VKT (Milli	ons)	Data	
Region	Start Tdist	End Tdist	Site	Site Tdist	Description	AADT	HV %	AADT	HV %	AADT	HV %	G	Α	В	Year	Page
410	0.000 km	4.040 km	10007	3.310 km	300m west of Marble Arch PI Int- SS 5185	1,318	6.33%	2,038	7.65%	3,356	7.07%	1.94352	3.00523	4.94876	2013	2
410	4.040 km	6.980 km	11395	6.170 km	Between Telford PI and Ereton Dr	829	5.85%	1,438	8.04%	2,267	7.07%	0.88960	1.54312	2.43272	2013	3
410	6.980 km	8.740 km	12167	7.480 km	Biggera Creek Bridge	.44.1	3.43%	749	4.54%	1,193	4.05%	0.28523	0.48116	0.76638	2013	4
410	8.740 km	11.290 km	11589	10.260 km	30m south of Bradford St	378	3.11%	648	4.80%	1,026	4.00%	0.35182	0.60313	0.95495	2013	5
					776	ST	ĺ				Totals	3.47017	5.63264	9.10281		

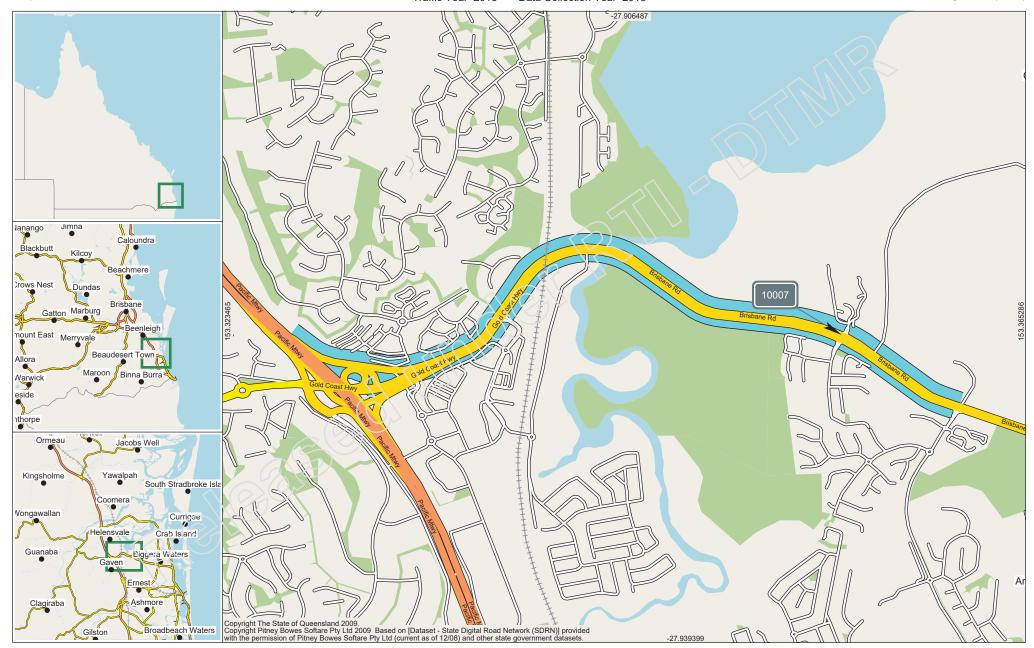
Lie Ach Pi, Lord Plan Ereton D. La Creek Bridge Jom south of Bradford St



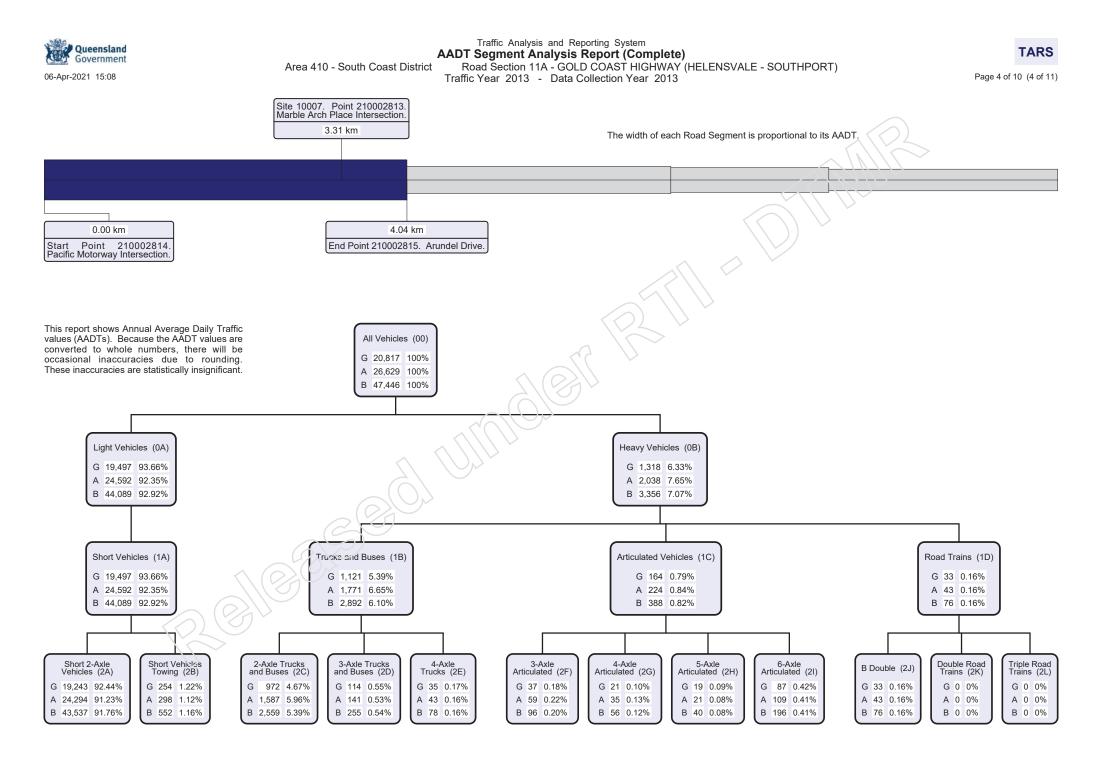
Traffic Analysis and Reporting System AADT Segment Analysis Report (Complete) Area 410 - South Coast District Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2013 - Data Collection Year 2013

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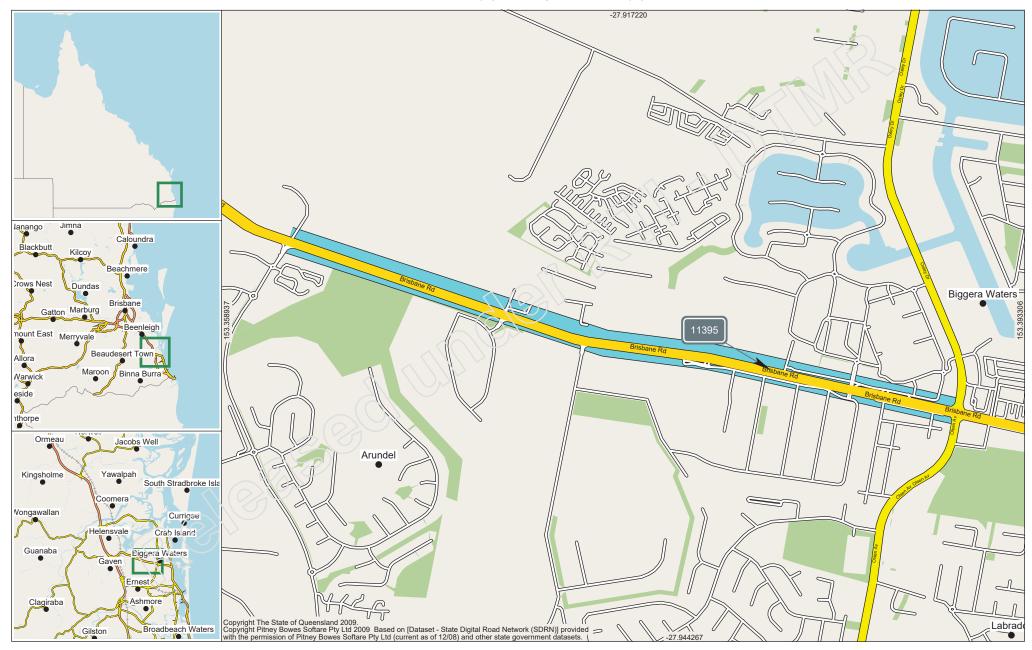
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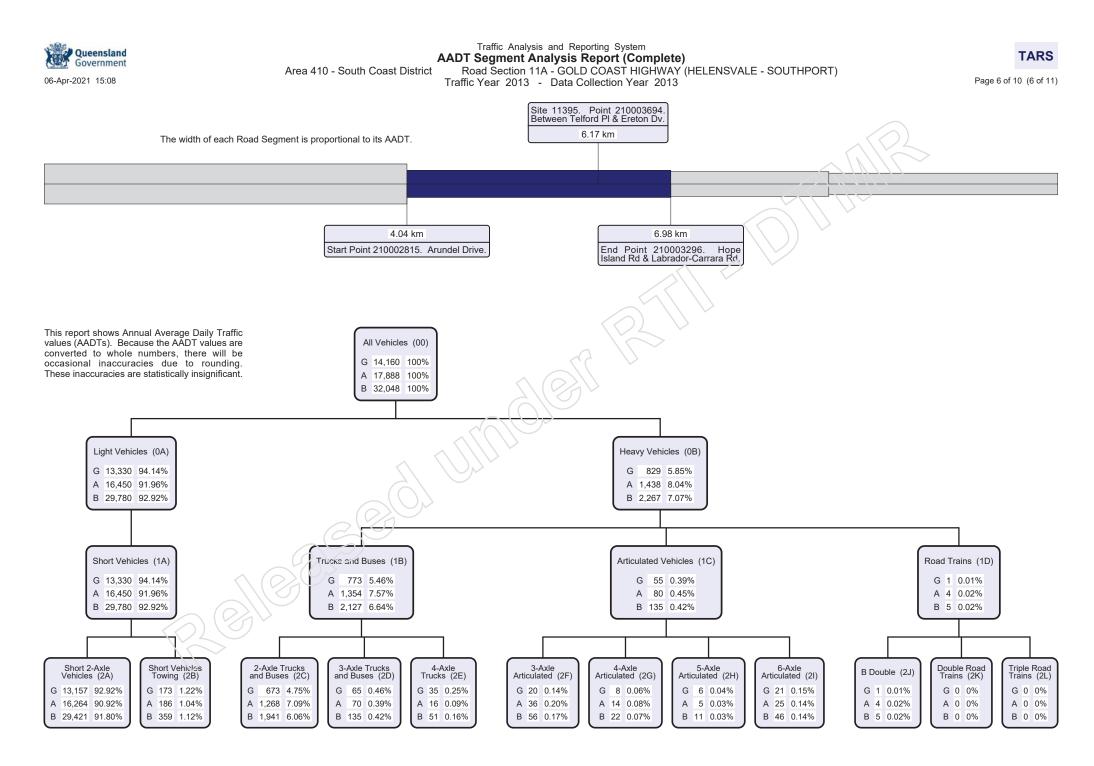
Traffic Analysis and Reporting System AADT Segment Analysis Report (Complete) Area 410 - South Coast District Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2013



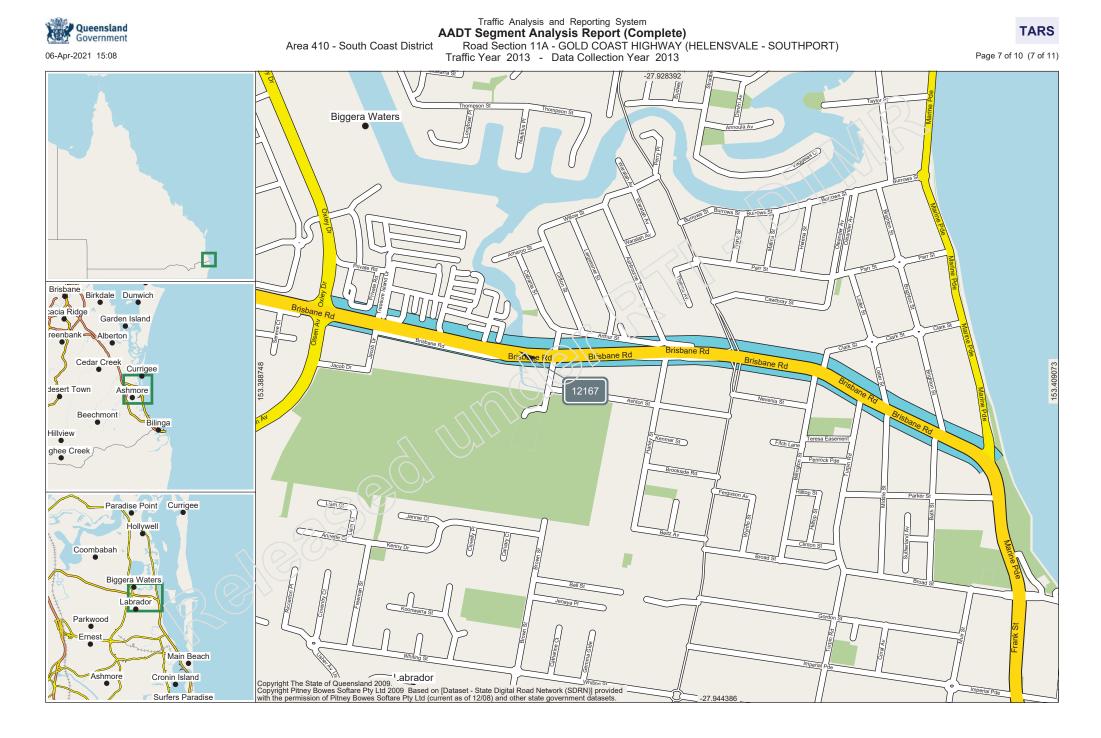
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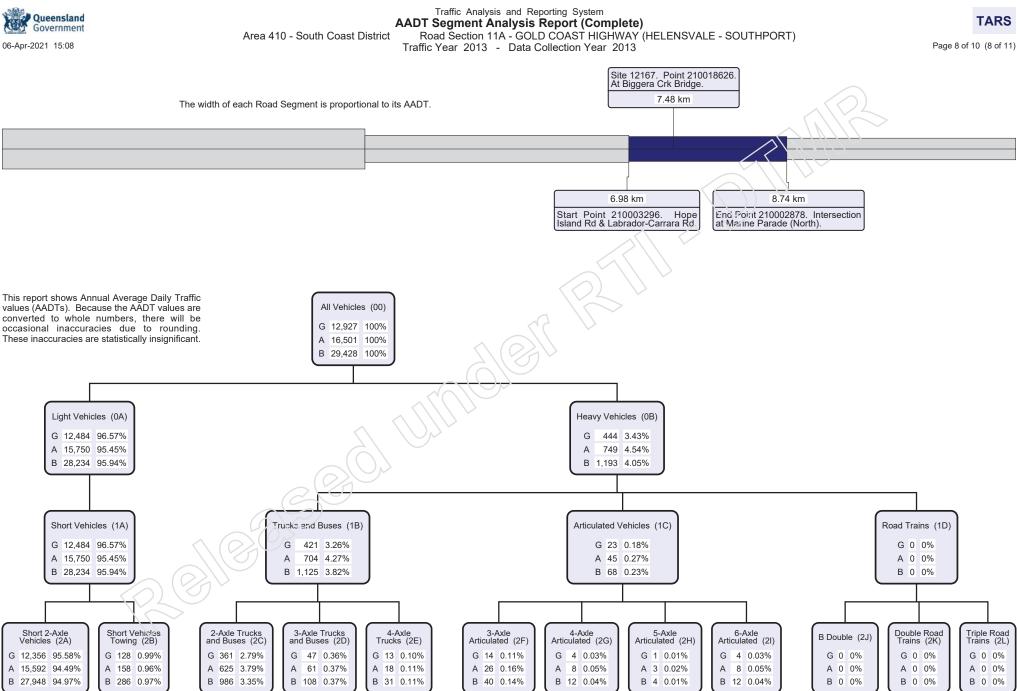


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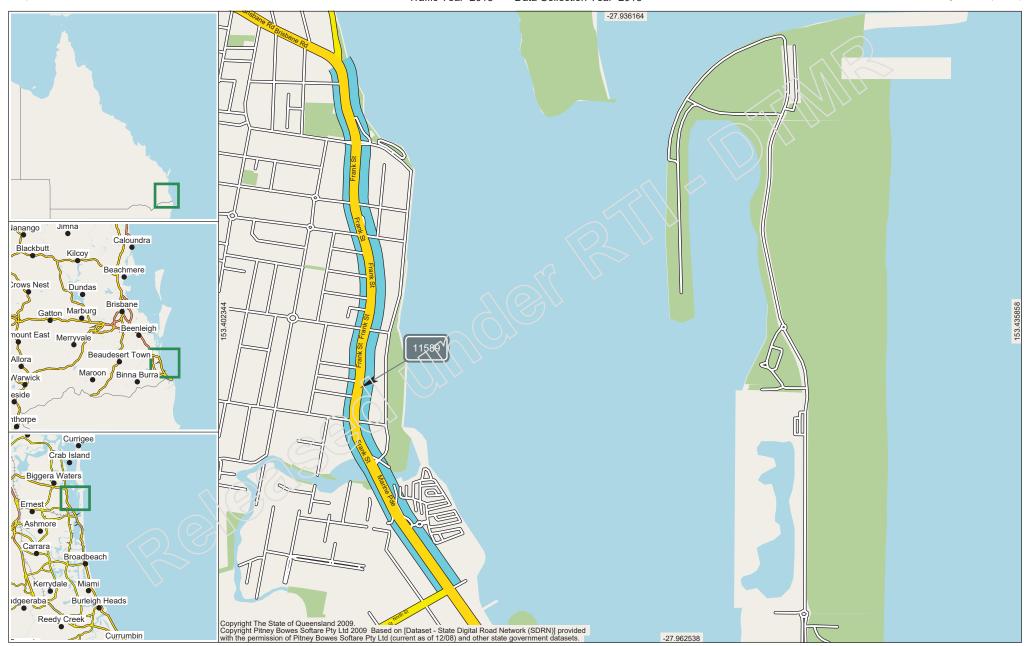
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Traffic Analysis and Reporting System AADT Segment Analysis Report (Complete) Area 410 - South Coast District Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2013 - Data Collection Year 2013

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Traffic Analysis and Reporting System TARS AADT Segment Analysis Report (Complete) Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Area 410 - South Coast District Traffic Year 2013 - Data Collection Year 2013 Page 10 of 10 (10 of 11) Site 11589. Point 210003837 30m south of Bradford St. 10.26 km The width of each Road Segment is proportional to its AADT. 11.29 km 8.74 km Start Point 210002878. Intersection at Marine Parade (North). End Point 210002880. Smith Street Connection Rd (North St) Intersection. This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are All Vehicles (00) converted to whole numbers, there will be occasional inaccuracies due to rounding. G 12,159 100% These inaccuracies are statistically insignificant. A 13,488 100% B 25,647 100% Light Vehicles (0A) Heavy Vehicles (0B) G 11.779 96.87% G 378 3.11% A 12,840 95.20% 648 4.80% А B 24,619 95.99% B 1,026 4.00% Short Vehicles (1A) Trucks and Buses (1B) Articulated Vehicles (1C) Road Trains (1D) G 11,779 96.87% G 356 2.93% G 22 0.18% G 0 0% A 12,840 95.20% A 612 4.54% A 36 0.27% A 0 0% B 24.619 95.99% B 968 3.77% B 58 0.23% B 0 0% Short 2-Axle Short Vehicles 2-Axle Trucks 3-Axle Trucks Double Road Triple Road 4-Axle 3-Axle 4-Axle 5-Axle 6-Axle B Double (2J) and Buses (2C) Articulated (21) Vehicles (2A) Towing (2B) and Buses (2D) Trucks (2E) Articulated (2F) Articulated (2G) Articulated (2H) Trains (2L) Trains (2K) G 98 0.81% G 33 0.27% G 7 0.06% G 16 0.13% G 2 0.02% G 11,681 96.07% G 316 2.60% G 2 0.02% G 2 0.02% G 0 0% G 0 0% G 0 0% A 7 0.05% A 12,750 94.53% A 90 0.67% A 565 4.19% A 38 0.28% A 9 0.07% A 23 0.17% A 3 0.02% A 3 0.02% A 0 0% A 0 0% A 0 0% B 24,431 95.26% B 188 0.73% B 16 0.06% B 5 0.02% B 0 0% B 881 3.44% B 71 0.28% B 39 0.15% B 9 0.04% B 5 0.02% B 0 0% B 0 0%

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AADT Segment Report

Provides AADT Segment details for a Road Section together with the traffic flow data collected at the related Site. Traffic data is reported by the start and end Through Distance of the AADT Segments on each section of road. The road segments are represented diagrammatically with AADT data including:

- AADT by direction of traffic flow
- VKT Vehicle Kilometres Travelled
- %VC Percentage Vehicle Class as per the Austroads vehicle classification scheme

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT Segment

Is a subdivision of a Road Section. The boundaries of an AADT Segment are it's Start Point and End Point (or Start and End Through Distance (TDist)) within the Road Section. These distances are measured in kilometres from the begining of the Road Section in Gazettal Direction. AADT Segments are determined by the traffic volume, collected at a count Site, located within the limits of each AADT Segment.

Annual Segment Growth (when displayed)

A percentage that represents the increase or decrease in AADT for the AADT Segment, using an exponential fit, calculated over a 1, 5 or 10 year period.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

District Name District

Central West District	401
Darling Downs District	402
Far North District	403
Fitzroy District	404
Mackay/Whitsunday District	405
Metropolitian District	406
North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

Data Year

The most recent year the traffic data was collected for this AADT Segment.

Gazettal Direction

The Gazettal Direction is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

- G
- Traffic flowing in Gazettal Direction Traffic flowing against Gazettal Direction R
- The combined traffic flow in both Directions

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site TDist

The Through Distance in gazettal direction from the start of the Road Section at which the site is located.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Through Distance

The distance, in kilometres, from the beginning of the Road Section in Gazettal Direction.

Traffic Class

Is the 12 Austroads vehicle categories or classes into which vehicles are placed or binned. Traffic classes are formed in a hierarchical format.

Volume or All Vehicles

00 = 0A + 0B **Light Vehicles** 0A = 1A = 2A + 2B 1A **Heavy Vehicles** = 1B + 1C + 1D = 2C + 2D + 2E = 2F + 2G + 2H + 2I 0B 1B

= 2J + 2K + 2L 1D

The following classes are the categories for which data can be captured:

Volume 00 All vehicies. 2-Bin

Light vehicles 0A

Heavy vehicles 0B 4-Bin

1A Short vehicles

- 18 Truck or bus
- 1CArticulated vehicles 1D Road train

12-Bin

- Short 2 axle vehicles 2A
- Short vehicles towing 28
- 2C 2 axle truck or bus
- 2D 3 axle truck or bus 4 axle truck
- 2E 2F
- 3 axle articulated vehicle 2G
- 4 axle articulated vehicle 5 axle articulated vehicle 2H
- 21 6 axle articulated vehicle
- 2.1 B double
- 2ĸ Double road train Triple road train

Vehicle Kilometres Travelled (VKT)

Daily VKT is a measure of the traffic demand. It is calculated by the length of an AADT Segment in kilometres multiplied by its AADT. The yearly VKT is the daily VKT multiplied by 365 days.

AADT Segment Summary - All Vehicles The Total VKT can be used to gauge the demand on an entire Road Section.

AADT Segment Summary - Heavy Vehicles only A blank field indicates that vehicle classification data was not collected for this AADT Segment.

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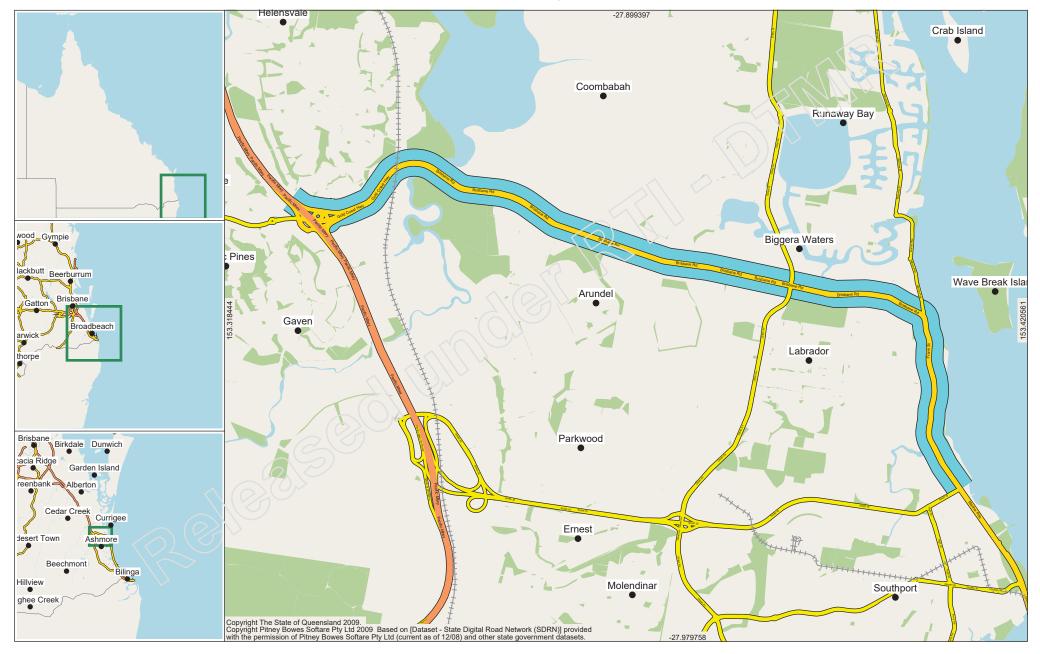
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Road Segments Summary - All Vehicles

	Segment	Segment					AADT		١	/KT (Million	s)	Data	2
Region	Start Tdist	End Tdist	Site	Site Tdist	Description	G	Α	В	G	Α	В	Year	Page
410	0.000 km	4.040 km	10007	3.310 km	300m west of Marble Arch PI Int- SS 5185	20,318	26,494	46,812	29.96092	39.06805	69.02898	2014	2
410	4.040 km	6.980 km	11395	6.170 km	Between Telford PI and Ereton Dr	14,252	18,323	32,575	15.29382	19.66241	34.95623	2014	3
410	6.980 km	8.740 km	12167	7.480 km	Biggera Creek Bridge	13,354	16,843	30,197	8.57861	10.81994	19.39855	2014	4
410	8.740 km	11.290 km	11589	10.260 km	30m south of Bradford St	11,677	13,565	25,242	10.86837	12.62562	23.49399	2014	5
								Totals	64.70172	82.17603	146.87775		

Road Segments Summary - Heavy Vehicles only

VKT totals are calculated only if traffic class data is available fc; all sites.

							HV AADT									
	Segment	Segment					G		4	E	3	HV	VKT (Milli	ons)	Data	
Region	Start Tdist	End Tdist	Site	Site Tdist	Description	AADT	HV %	AADT	HV %	AADT	HV %	G	Α	В	Year	Page
410	0.000 km	4.040 km	10007	3.310 km	300m west of Marble Arch PI Int- SS 5185	1,408	6.93%	1,275	4.81%	2,683	5.73%	2.07624	1.88011	3.95635	2014	2
410	4.040 km	6.980 km	11395	6.170 km	Between Telford PI and Ereton Dr	832	5.84%	807	4.40%	1,639	5.03%	0.89282	0.86599	1.75881	2014	3
410	6.980 km	8.740 km	12167	7.480 km	Biggera Creek Bridge	712	5.33%	749	4.45%	1,461	4.84%	0.45739	0.48116	0.93855	2014	4
410	8.740 km	11.290 km	11589	10.260 km	30m south of Bradford St	493	4.22%	594	4.38%	1,087	4.31%	0.45886	0.55287	1.01173	2014	5
					776	ST	Î				Totals	3.88530	3.78013	7.66543		

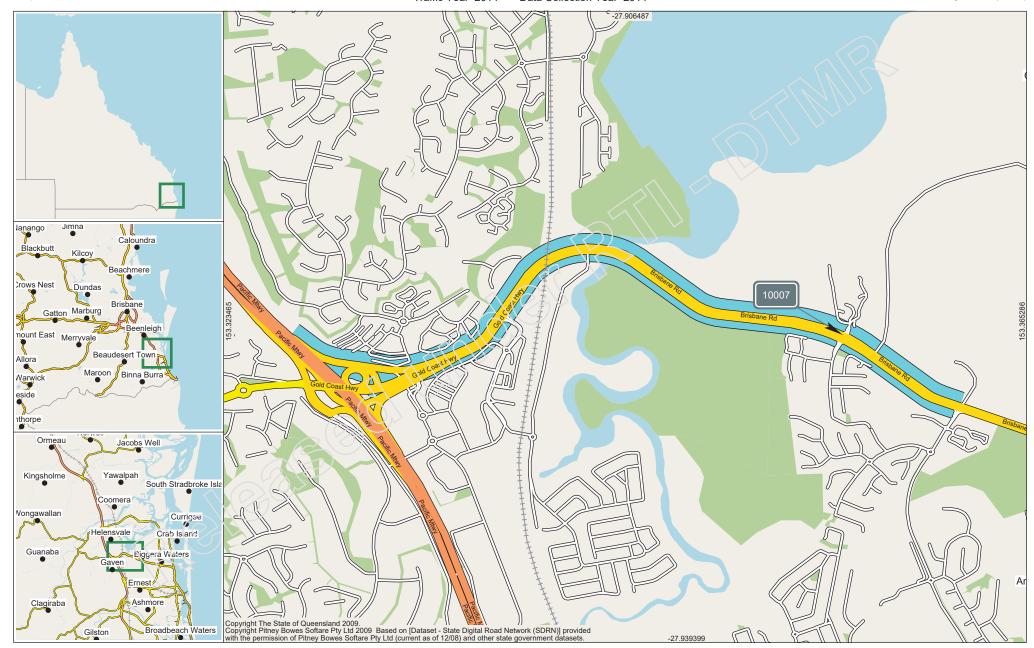
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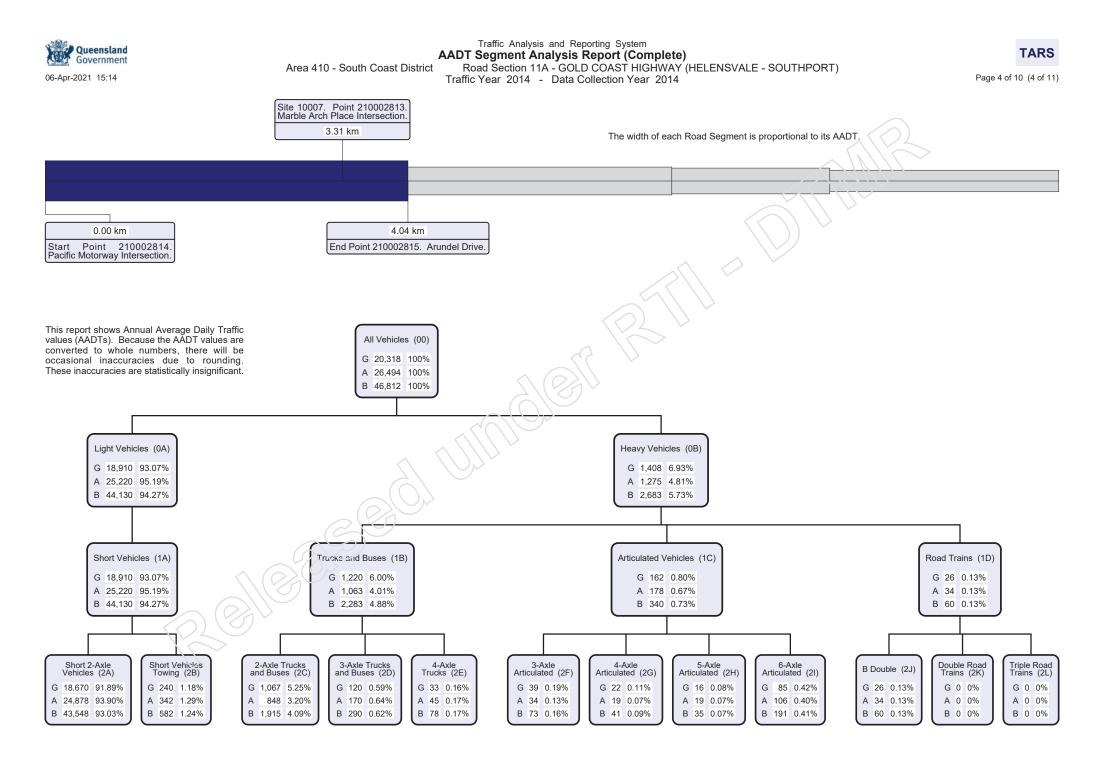
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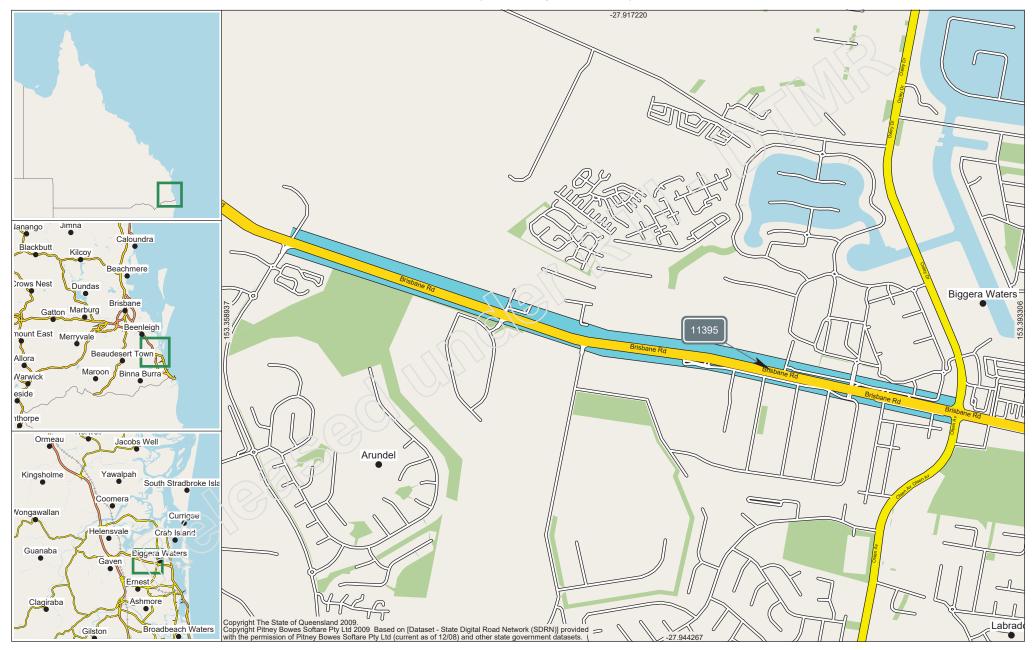
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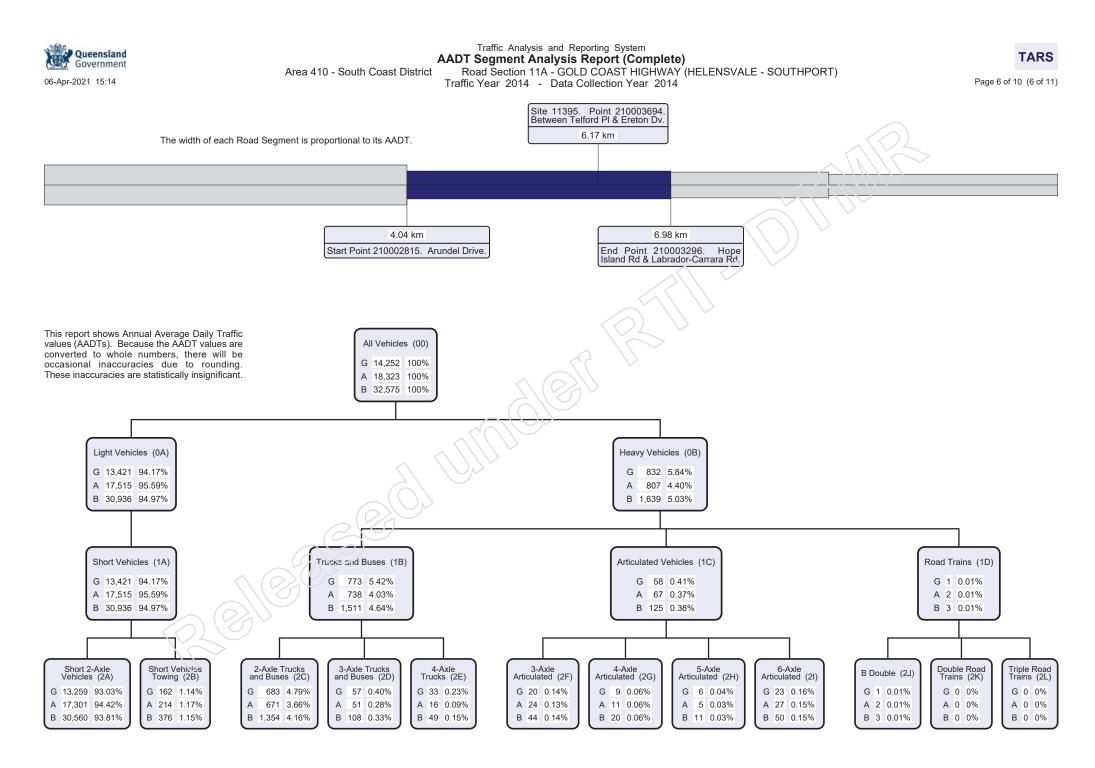
Area 410 - South Coast District Traffic Analysis and Reporting System Area 410 - South Coast District Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2014 Data Collection Year 2014



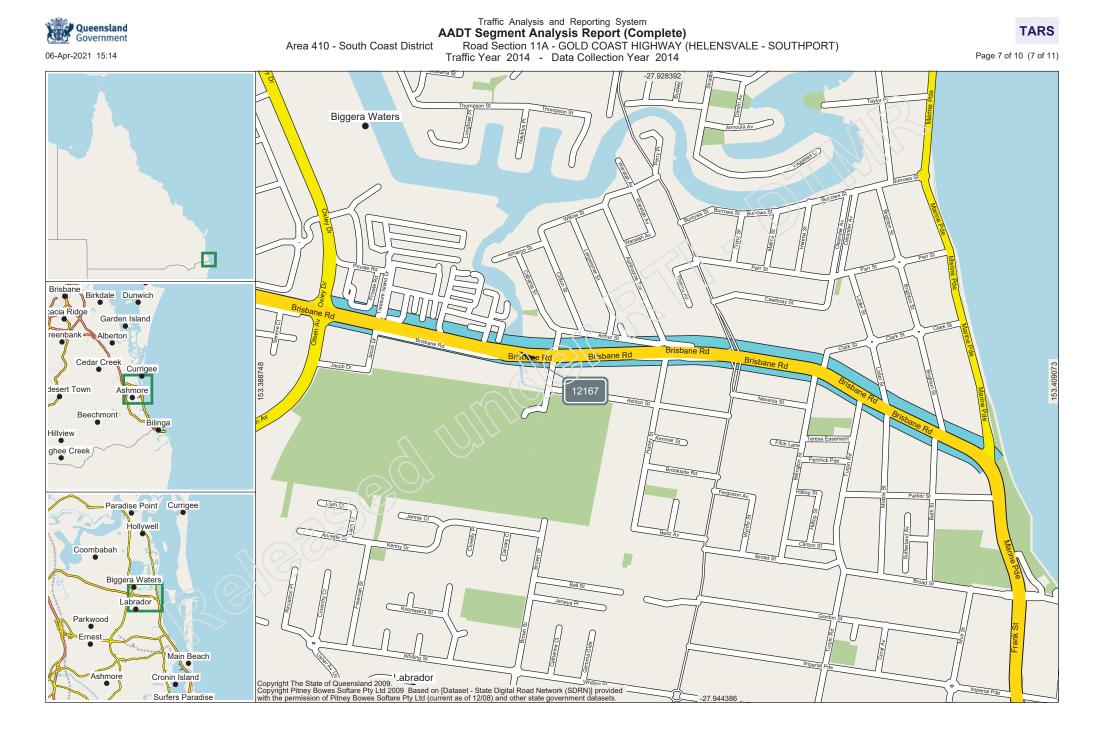
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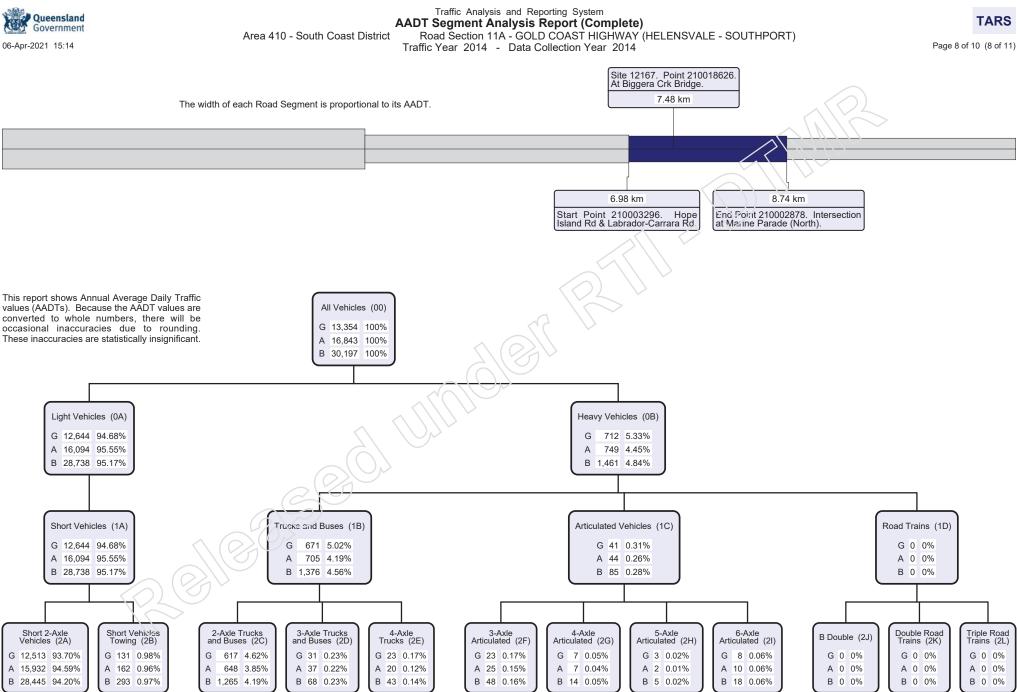


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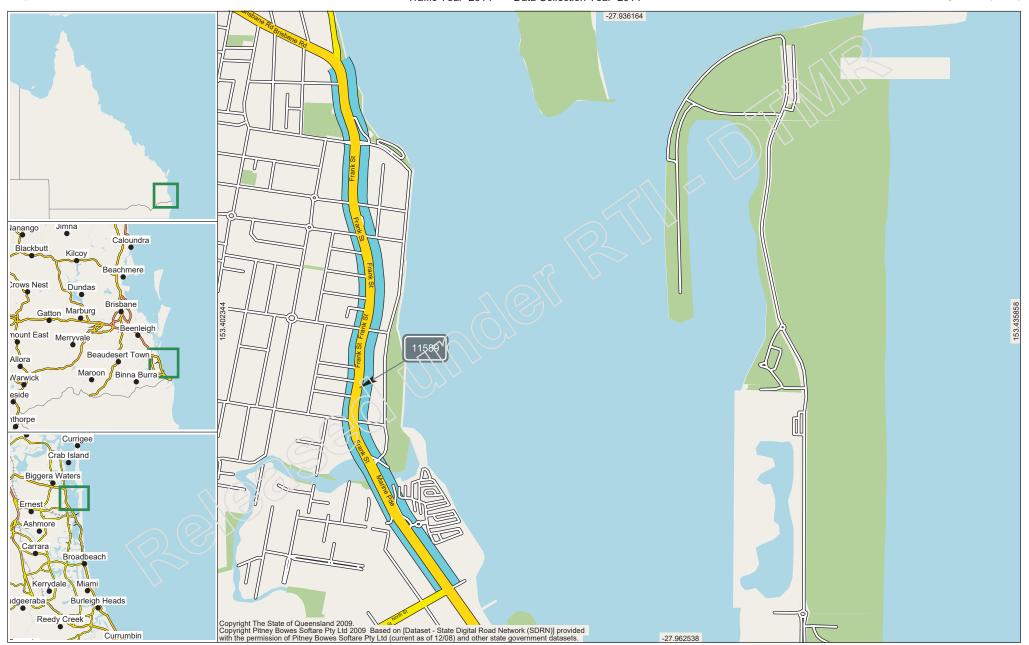
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Traffic Analysis and Reporting System AADT Segment Analysis Report (Complete) Area 410 - South Coast District Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2014 - Data Collection Year 2014

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B 23,981 95.00%

B 173 0.69%

B 959 3.80%

Traffic Analysis and Reporting System TARS AADT Segment Analysis Report (Complete) Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Area 410 - South Coast District Traffic Year 2014 - Data Collection Year 2014 Page 10 of 10 (10 of 11) Site 11589. Point 210003837 30m south of Bradford St. 10.26 km The width of each Road Segment is proportional to its AADT. 11.29 km 8.74 km Start Point 210002878. Intersection at Marine Parade (North). End Point 210002880. Smith Street Connection Rd (North St) Intersection. This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are All Vehicles (00) converted to whole numbers, there will be occasional inaccuracies due to rounding. G 11,677 100% These inaccuracies are statistically insignificant. A 13,565 100% B 25,242 100% Light Vehicles (0A) Heavy Vehicles (0B) G 11.183 95.77% 493 4.22% G A 12,971 95.62% 594 4.38% А B 24,154 95.69% B 1,087 4.31% Short Vehicles (1A) Trucks and Buses (1B) Articulated Vehicles (1C) Road Trains (1D) G 11,183 95.77% 467 4.00% G 26 0.22% G 0 0.00% G A 12,971 95.62% 558 4.11% A 35 0.26% A 1 0.01% А B 24.154 95.69% B 1.025 4.06% B 61 0.24% B 1 0.00% Short 2-Axle Short Vehicles 2-Axle Trucks 3-Axle Trucks Double Road Triple Road 4-Axle 3-Axle 4-Axle 5-Axle 6-Axle B Double (2J) and Buses (2C) Articulated (2I) Vehicles (2A) Towing (2B) and Buses (2D) Trucks (2E) Articulated (2F) Articulated (2G) Articulated (2H) Trains (2L) Trains (2K) G 83 0.71% G 439 3.76% G 15 0.13% G 13 0.11% G 2 0.02% G 11,100 95.06% G 20 0.17% G 2 0.02% G 2 0.02% G 0 0.00% G 0 0% G 0 0% A 26 0.19% A 4 0.03% A 12,881 94.96% A 90 0.66% A 520 3.83% A 23 0.17% A 15 0.11% A 1 0.01% A 4 0.03% A 1 0.01% A 0 0% A 0 0%

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B 46 0.18%

B 6 0.02%

B 3 0.01%

B 6 0.02%

B 1 0.00%

B 0 0%

B 0 0%

B 28 0.11%

B 38 0.15%



AADT Segment Report

Provides AADT Segment details for a Road Section together with the traffic flow data collected at the related Site. Traffic data is reported by the start and end Through Distance of the AADT Segments on each section of road. The road segments are represented diagrammatically with AADT data including:

- AADT by direction of traffic flow
- VKT Vehicle Kilometres Travelled
- %VC Percentage Vehicle Class as per the Austroads vehicle classification scheme

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT Segment

Is a subdivision of a Road Section. The boundaries of an AADT Segment are it's Start Point and End Point (or Start and End Through Distance (TDist)) within the Road Section. These distances are measured in kilometres from the begining of the Road Section in Gazettal Direction. AADT Segments are determined by the traffic volume, collected at a count Site, located within the limits of each AADT Segment.

Annual Segment Growth (when displayed)

A percentage that represents the increase or decrease in AADT for the AADT Segment, using an exponential fit, calculated over a 1, 5 or 10 year period.

Area

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Metropolitian District	406
North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

Data Year

The most recent year the traffic data was collected for this AADT Segment.

Gazettal Direction

The Gazettal Direction is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

- Traffic flowing in Gazettal Direction Traffic flowing against Gazettal Direction G
- R
- The combined traffic flow in both Directions

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site TDist

The Through Distance in gazettal direction from the start of the Road Section at which the site is located.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Through Distance

The distance, in kilometres, from the beginning of the Road Section in Gazettal Direction.

Traffic Class

Is the 12 Austroads vehicle categories or classes into which vehicles are placed or binned. Traffic classes are formed in a hierarchical format.

Volume or All Vehicles

00 = 0A + 0B **Light Vehicles** 0A = 1A = 2A + 2B 1A **Heavy Vehicles** = 1B + 1C + 1D = 2C + 2D + 2E = 2F + 2G + 2H + 2I 0B 1B

= 2J + 2K + 2L 1D

The following classes are the categories for which data can be captured:

Volume 00 All vehicies. 2-Bin

- Light vehicles 0A 0B
 - Heavy vehicles

4-Bin 1A Short vehicles

- 18 Truck or bus
- 1CArticulated vehicles Road train
- 1D 12-Bin

2A

- Short 2 axle vehicles Short vehicles towing 28
- 2C 2 axle truck or bus
- 2D 3 axle truck or bus
- 4 axle truck 2E
- 2F 3 axle articulated vehicle 2G
- 4 axle articulated vehicle 5 axle articulated vehicle 2H
- 21 6 axle articulated vehicle
- 2.1 B double
- 2ĸ Double road train Triple road train

Vehicle Kilometres Travelled (VKT)

Daily VKT is a measure of the traffic demand. It is calculated by the length of an AADT Segment in kilometres multiplied by its AADT. The yearly VKT is the daily VKT multiplied by 365 days.

AADT Segment Summary - All Vehicles The Total VKT can be used to gauge the demand on an entire Road Section.

AADT Segment Summary - Heavy Vehicles only A blank field indicates that vehicle classification data was not collected for this AADT Segment.

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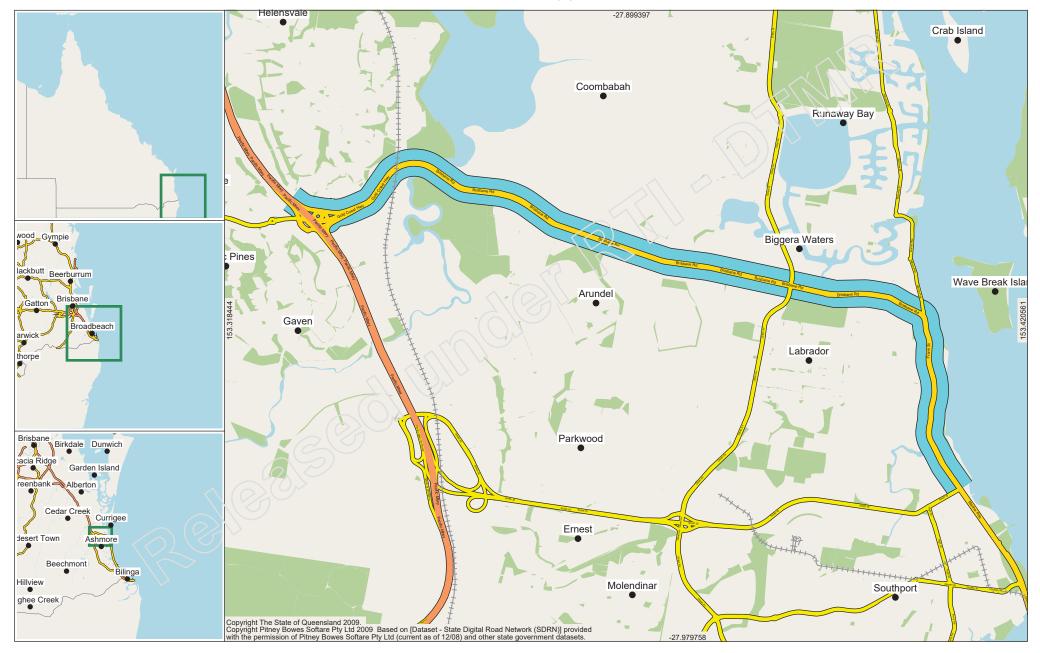
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Road Segments Summary - All Vehicles

	Segment	Segment					AADT		١	/KT (Million	s)	Data	4
Region	Start Tdist	End Tdist	Site	Site Tdist	Description	G	Α	В	G	Α	В	Year	Page
410	0.000 km	4.040 km	10007	3.310 km	300m west of Marble Arch PI Int- SS 5185	20,774	26,857	47,631	30.63334	39.60333	70.23667	2015	2
410	4.040 km	6.980 km	11395	6.170 km	Between Telford PI and Ereton Dr	14,787	18,238	33,025	15.86793	19.57120	35.43913	2015	3
410	6.980 km	8.740 km	12167	7.480 km	Biggera Creek Bridge	13,439	16,238	29,677	8.63321	10.43129	19.06450	2015	4
410	8.740 km	11.290 km	11589	10.260 km	30m south of Bradford St	12,445	14,957	27,402	11.58318	13.92123	25.5û441	2015	5
								Totals	66.71767	83.52705	150.24472		

Road Segments Summary - Heavy Vehicles only

VKT totals are calculated only if traffic class data is available fc; all sites.

							HV AADT									
	Segment	Segment					G		4	E	3	HV	VKT (Milli	ons)	Data	
Region	Start Tdist	End Tdist	Site	Site Tdist	Description	AADT	HV %	AADT	HV %	AADT	HV %	G	Α	В	Year	Page
410	0.000 km	4.040 km	10007	3.310 km	300m west of Marble Arch PI Int- SS 5185	1,412	6.80%	1,624	6.05%	3,036	6.37%	2.08214	2.39475	4.47689	2015	2
410	4.040 km	6.980 km	11395	6.170 km	Between Telford PI and Ereton Dr	933	6.65%	1,387	7.61%	2,370	7.18%	1.05486	1.48839	2.54325	2015	3
410	6.980 km	8.740 km	12167	7.480 km	Biggera Creek Bridge	843	6.27%	1,256	7.73%	2,099	7.07%	0.54154	0.80685	1.34840	2015	4
410	8.740 km	11.290 km	11589	10.260 km	30m south of Bradford St	563	4.52%	624	4.17%	1,187	4.33%	0.52401	0.58079	1.10480	2015	5
					776	77 F	1				Totals	4.20255	5.27078	9.47333		

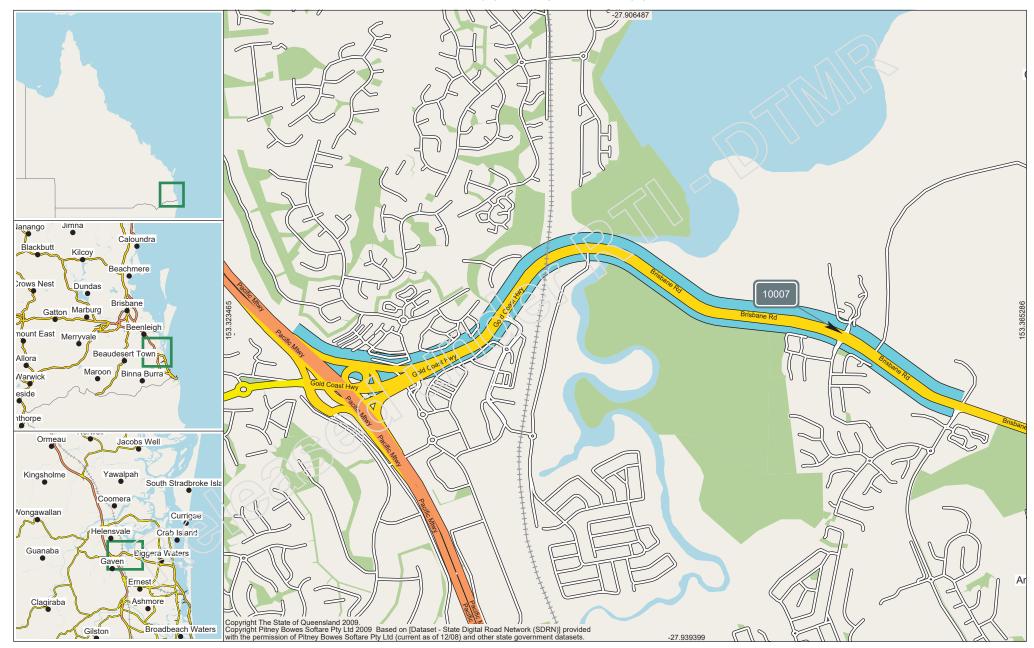
Lie Ach Pi, Lord Plan Ereton D. La Creek Bridge Jom south of Bradford St



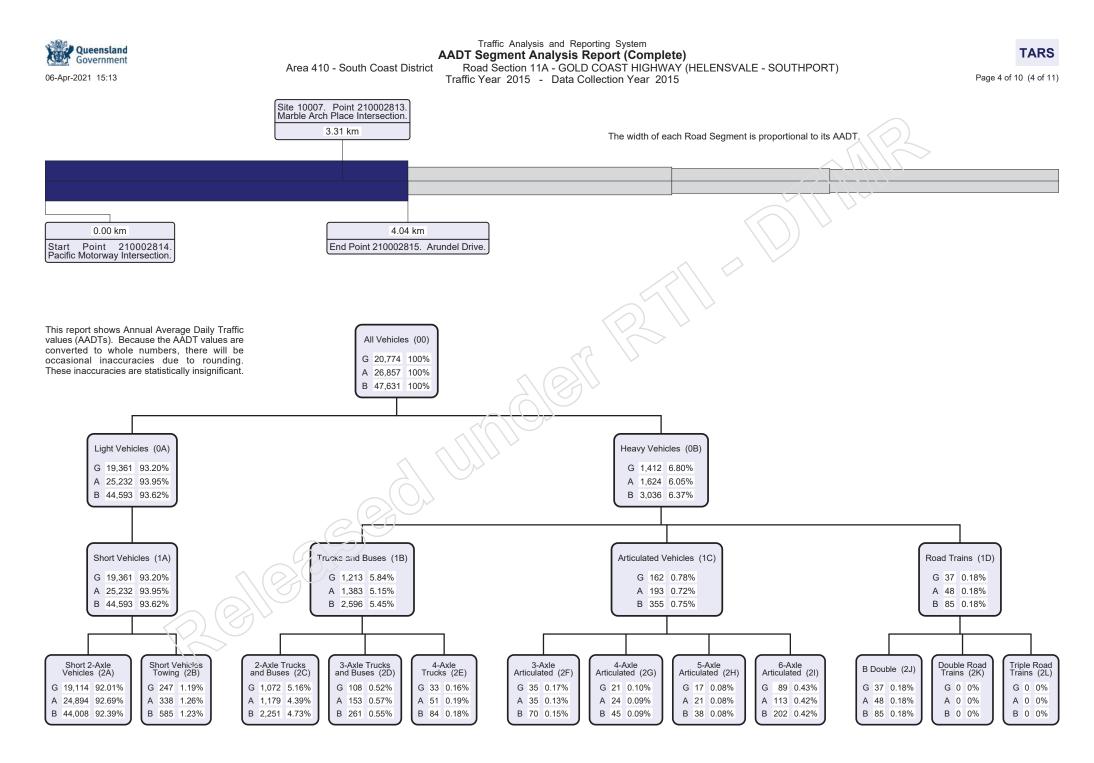
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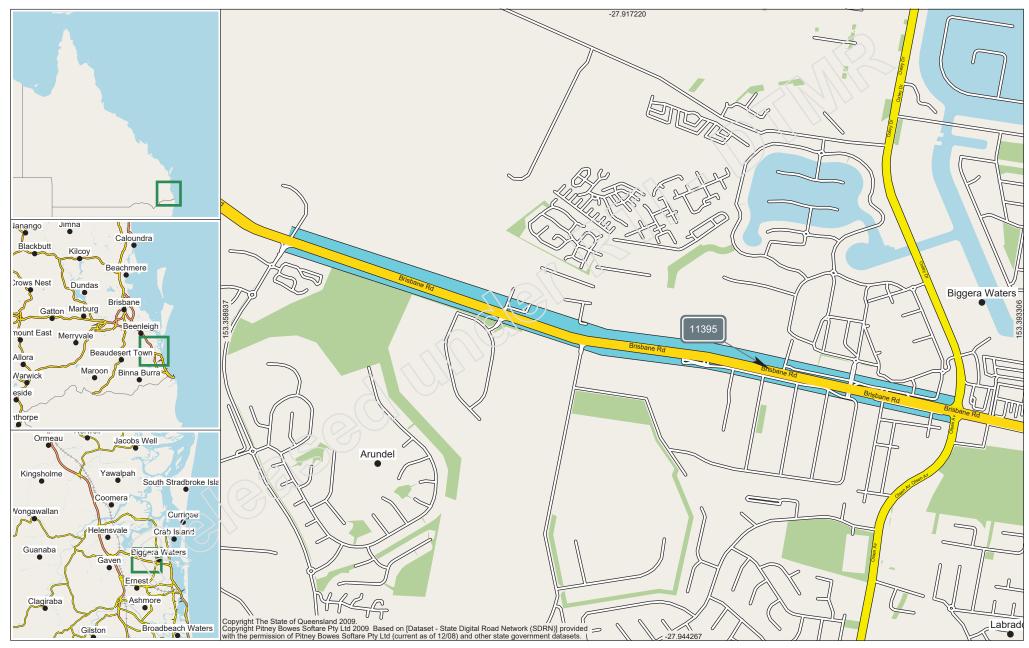
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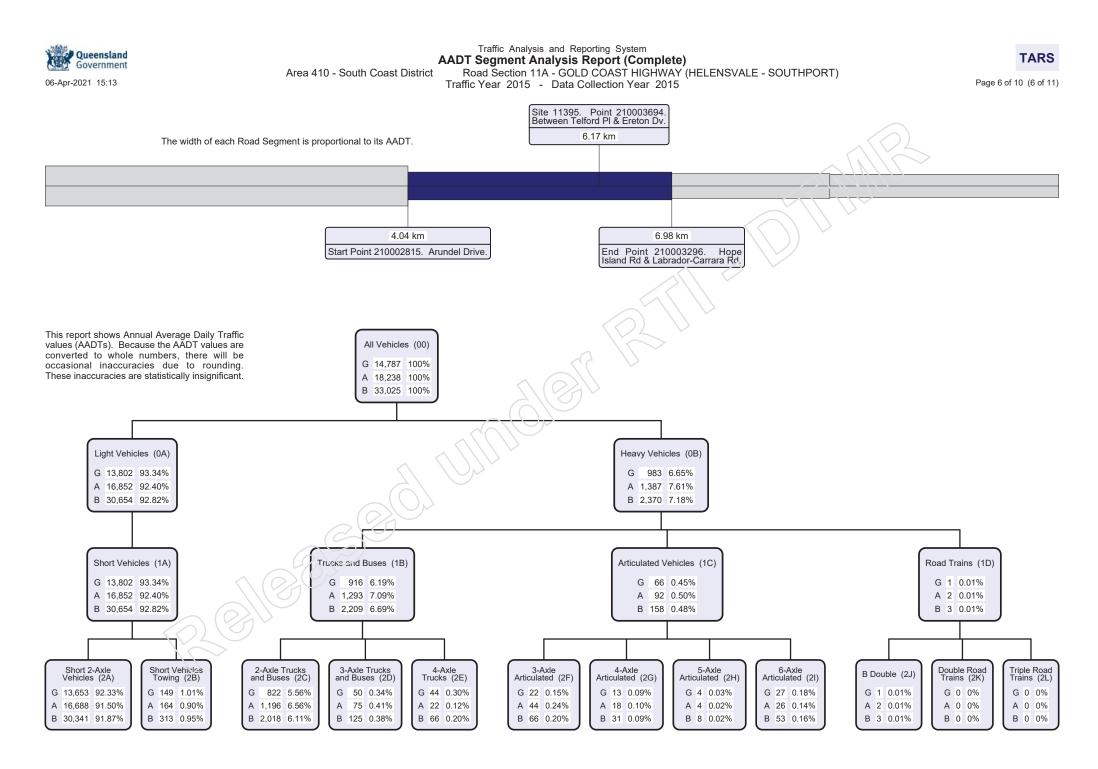
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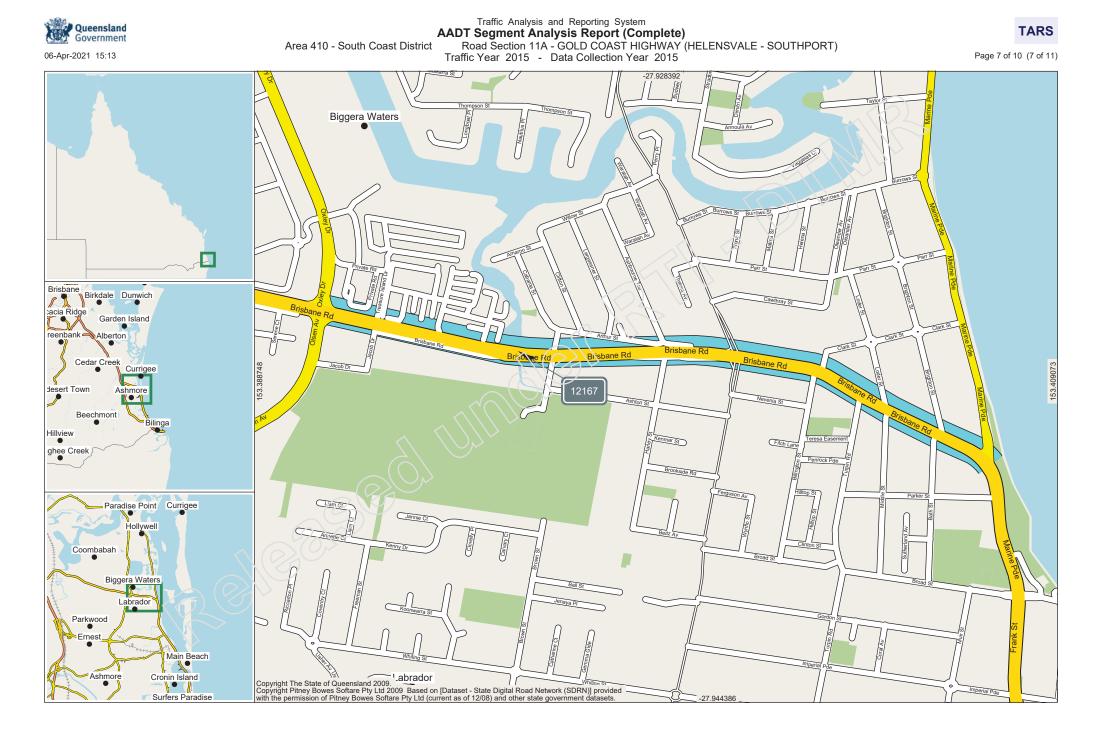
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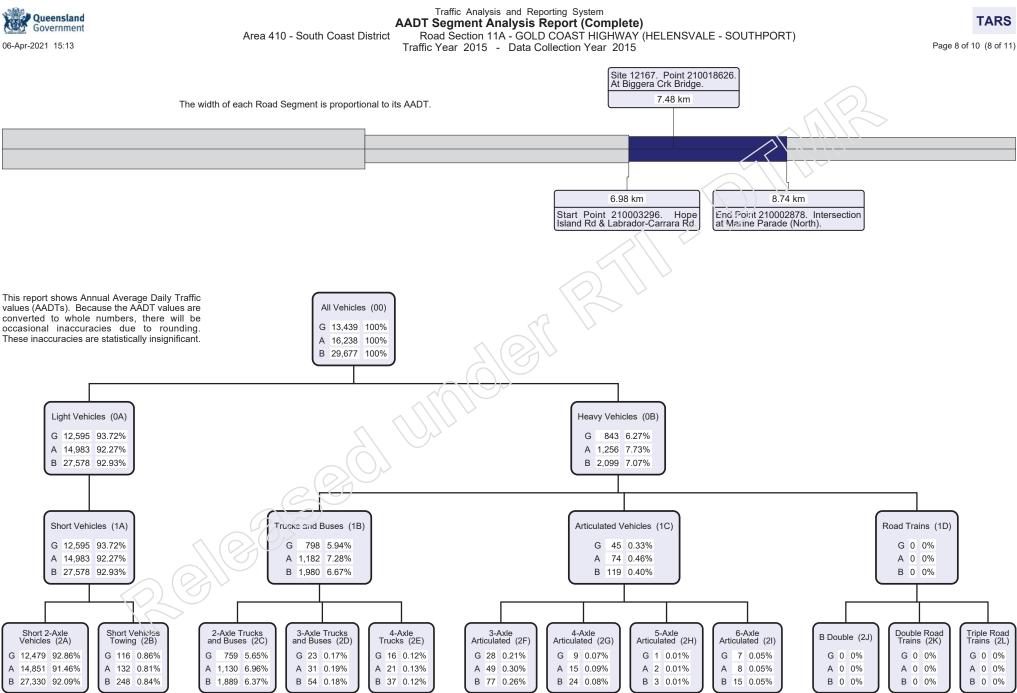


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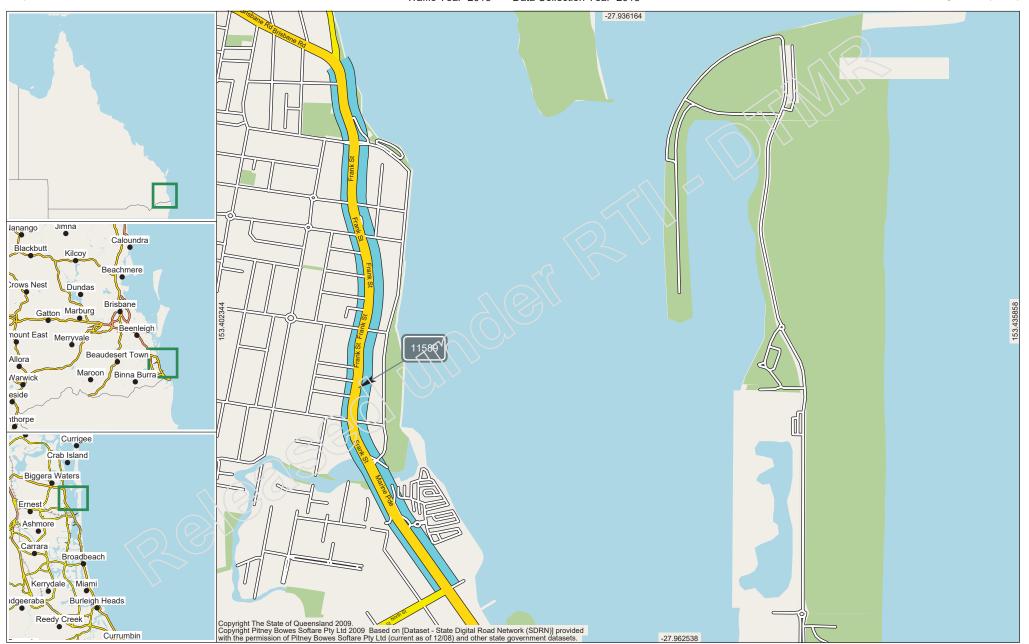
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Traffic Analysis and Reporting System TARS AADT Segment Analysis Report (Complete) Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Area 410 - South Coast District Traffic Year 2015 - Data Collection Year 2015 Page 10 of 10 (10 of 11) Site 11589. Point 210003837 30m south of Bradford St. 10.26 km The width of each Road Segment is proportional to its AADT. 11.29 km 8.74 km Start Point 210002878. Intersection at Marine Parade (North). End Point 210002880. Smith Street Connection Rd (North St) Intersection. This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are All Vehicles (00) converted to whole numbers, there will be occasional inaccuracies due to rounding. G 12.445 100% These inaccuracies are statistically insignificant. A 14,957 100% B 27,402 100% Light Vehicles (0A) Heavy Vehicles (0B) G 11,880 95.46% 563 4.52% G A 14,331 95.81% А 624 4.17% B 26,211 95.65% B 1,187 4.33% Short Vehicles (1A) Road Trains (1D) Trucks and Buses (1B) Articulated Vehicles (1C) G 11,880 95.46% G 533 4.28% G 30 0.24% G 0 0.00% A 14,331 95.81% 590 3.94% A 33 0.22% A 1 0.01% А B 26.211 95.65% B 1.123 4.10% B 63 0.23% B 1 0.00% Short 2-Axle Short Vehicles 2-Axle Trucks 3-Axle Trucks 4-Axle 6-Axle Articulated (2I) Double Road Triple Road 3-Axle 4-Axle 5-Axle B Double (2J) Towing (2B) Vehicles (2A) and Buses (2C) and Buses (2D) Trucks (2E) Articulated (2F) Articulated (2G) Articulated (2H) Trains (2L) Trains (2K) G 80 0.64% G 6 0.05% G 5 0.04% G 1 0.01% G 11,800 94.82% G 505 4.06% G 22 0.18% G 22 0.18% G 2 0.02% G 0 0.00% G 0 0% G 0 0% А A 24 0.16% A 14,238 95.19% A 93 0.62% 559 3.74% A 22 0.15% A 9 0.06% A 4 0.03% A 1 0.01% A 4 0.03% A 1 0.01% A 0 0% A 0 0% B 26,038 95.02% B 173 0.63% B 1,064 3.88% B 44 0.16% B 15 0.05% B 46 0.17% B 2 0.01% B 6 0.02% B 1 0.00% B 0 0% B 9 0.03% B 0 0%

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AADT Segment Report

Provides AADT Segment details for a Road Section together with the traffic flow data collected at the related Site. Traffic data is reported by the start and end Through Distance of the AADT Segments on each section of road. The road segments are represented diagrammatically with AADT data including:

- AADT by direction of traffic flow
- VKT Vehicle Kilometres Travelled
- %VC Percentage Vehicle Class as per the Austroads vehicle classification scheme

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT Segment

Is a subdivision of a Road Section. The boundaries of an AADT Segment are it's Start Point and End Point (or Start and End Through Distance (TDist)) within the Road Section. These distances are measured in kilometres from the begining of the Road Section in Gazettal Direction. AADT Segments are determined by the traffic volume, collected at a count Site, located within the limits of each AADT Segment.

Annual Segment Growth (when displayed)

A percentage that represents the increase or decrease in AADT for the AADT Segment, using an exponential fit, calculated over a 1, 5 or 10 year period.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

District Name District

Central West District	401
Darling Downs District	402
Far North District	403
Fitzroy District	404
Mackay/Whitsunday District	405
Metropolitian District	406
North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

Data Year

The most recent year the traffic data was collected for this AADT Segment.

Gazettal Direction

The Gazettal Direction is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

- G
- Traffic flowing in Gazettal Direction Traffic flowing against Gazettal Direction R
- The combined traffic flow in both Directions

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site TDist

The Through Distance in gazettal direction from the start of the Road Section at which the site is located.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Through Distance

The distance, in kilometres, from the beginning of the Road Section in Gazettal Direction.

Traffic Class

Is the 12 Austroads vehicle categories or classes into which vehicles are placed or binned. Traffic classes are formed in a hierarchical format.

Volume or All Vehicles

00 = 0A + 0B **Light Vehicles** 0A = 1A = 2A + 2B 1A **Heavy Vehicles** = 1B + 1C + 1D = 2C + 2D + 2E = 2F + 2G + 2H + 2I 0B 1B

= 2J + 2K + 2L 1D

The following classes are the categories for which data can be captured:

Volume 00 All vehicies. 2-Bin

Light vehicles 0A

Heavy vehicles 0B 4-Bin

1A Short vehicles

- 18 Truck or bus
- 1CArticulated vehicles
- 1D Road train

12-Bin

- Short 2 axle vehicles 2A Short vehicles towing
- 28 2C 2 axle truck or bus
- 2D 3 axle truck or bus
- 4 axle truck 2E
- 2F 3 axle articulated vehicle
- 4 axle articulated vehicle 5 axle articulated vehicle 2G
- 2H 21 6 axle articulated vehicle
- 2.1 B double
- 2ĸ Double road train
- Triple road train

Vehicle Kilometres Travelled (VKT)

Daily VKT is a measure of the traffic demand. It is calculated by the length of an AADT Segment in kilometres multiplied by its AADT. The yearly VKT is the daily VKT multiplied by 365 days.

AADT Segment Summary - All Vehicles The Total VKT can be used to gauge the demand on an entire Road Section.

AADT Segment Summary - Heavy Vehicles only A blank field indicates that vehicle classification data was not collected for this AADT Segment.

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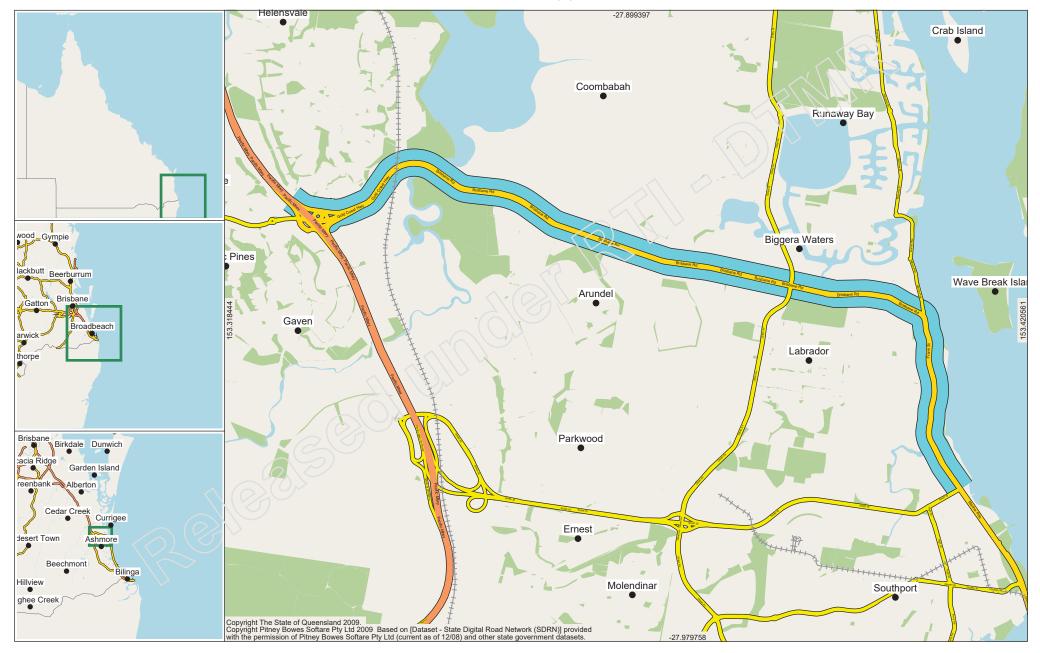
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Road Segments Summary - All Vehicles

	Segment	Segment					AADT		١	/KT (Million	s)	Dəta	4
Region	Start Tdist	End Tdist	Site	Site Tdist	Description	G	Α	В	G	Α	В	Year	Pago
410	0.000 km	4.040 km	10007	3.310 km	300m west of Marble Arch PI Int- SS 5185	21,377	27,269	48,646	31.52252	40.21087	71.73339	2016	2
410	4.040 km	6.980 km	11395	6.170 km	Between Telford PI and Ereton Dr	14,862	18,743	33,605	15.94841	20.11311	36.06153	2016	3
410	6.980 km	8.740 km	12167	7.480 km	Biggera Creek Bridge	13,780	16,894	30,674	8.85227	10.85271	19.70498	2016	4
410	8.740 km	11.290 km	11589	10.260 km	30m south of Bradford St	12,279	14,710	26,989	11.42868	13.69133	25.12001	2016	5
								Totals	67.75189	84.86302	152.61991		

Road Segments Summary - Heavy Vehicles only

VKT totals are calculated only if traffic class data is available fc; all sites.

						HV AADT				<u> </u>						
	Segment	Segment				G		A		В		HV VKT (Millions)			Data	
Region	Start Tdist	End Tdist	Site	Site Tdist	Description	AADT	HV %	AADT	HV %	AADT	HV %	G	Α	В	Year	Page
410	0.000 km	4.040 km	10007	3.310 km	300m west of Marble Arch PI Int- SS 5185	1,523	7.12%	1,745	6.40%	3,268	6.72%	2.24582	2.57318	4.81899	2016	2
410	4.040 km	6.980 km	11395	6.170 km	Between Telford PI and Ereton Dr	934	6.62%	1,262	6.73%	2,246	6.68%	1.05593	1.35425	2.41018	2016	3
410	6.980 km	8.740 km	12167	7.480 km	Biggera Creek Bridge	716	5.20%	1,034	6.12%	1,750	5.71%	0.45996	0.66424	1.12420	2016	4
410	8.740 km	11.290 km	11589	10.260 km	30m south of Bradford St	512	4.17%	646	4.39%	1,158	4.29%	0.47654	0.60126	1.07781	2016	5
					776	87	Í				Totals	4.23825	5.19294	9.43118		

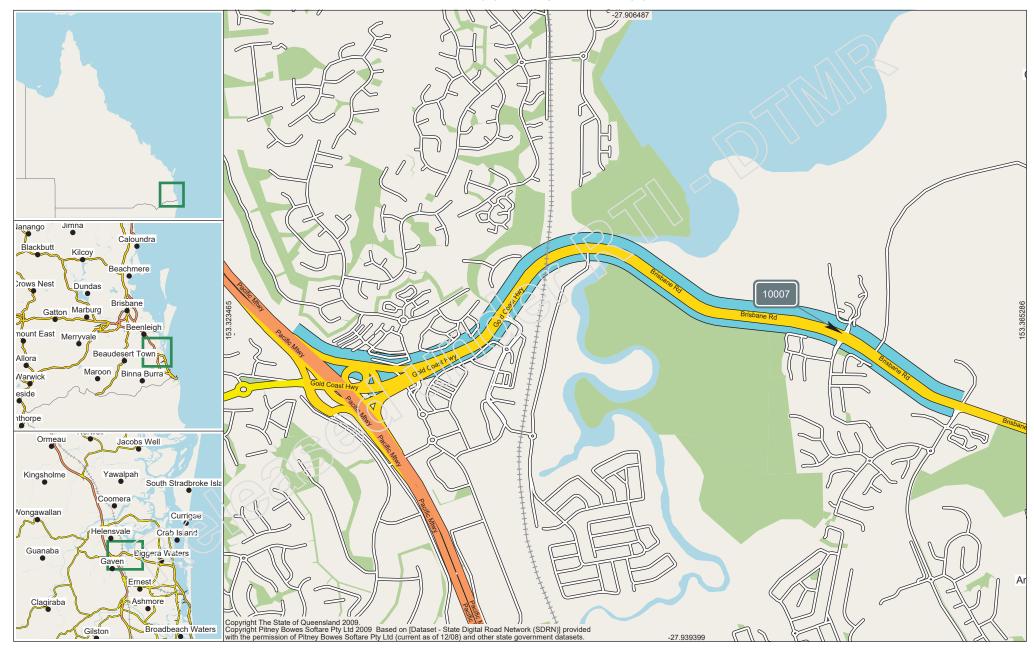
Le Arch Pi. .ord Pi and Ereton Di. .oreek Bridge Join south of Bradford St



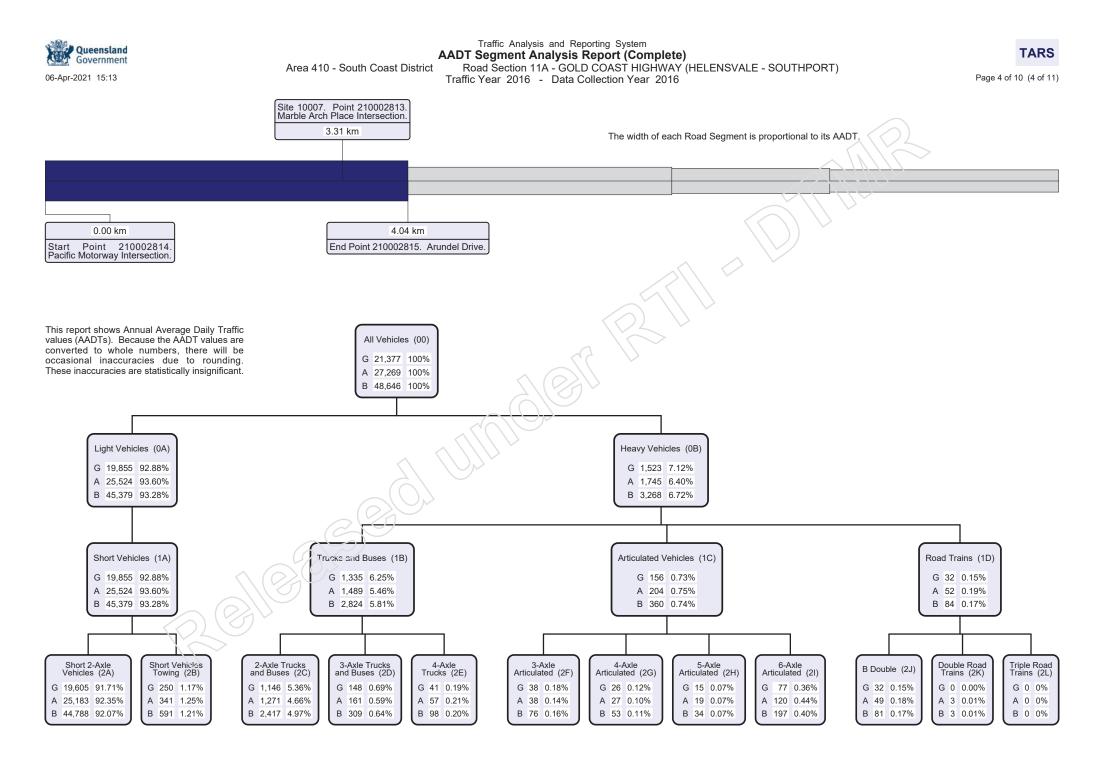
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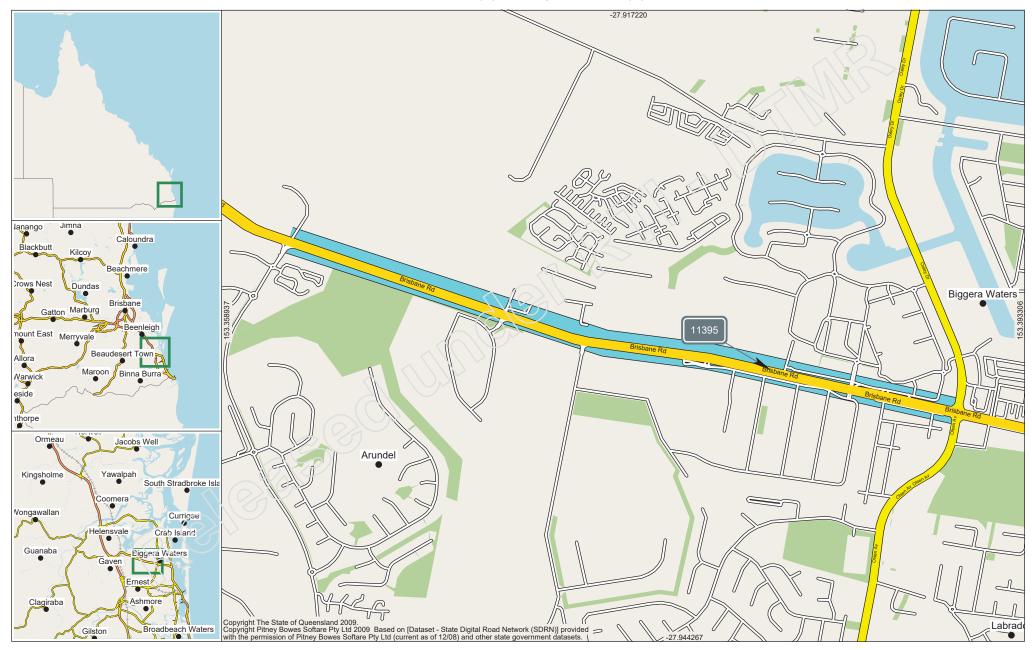
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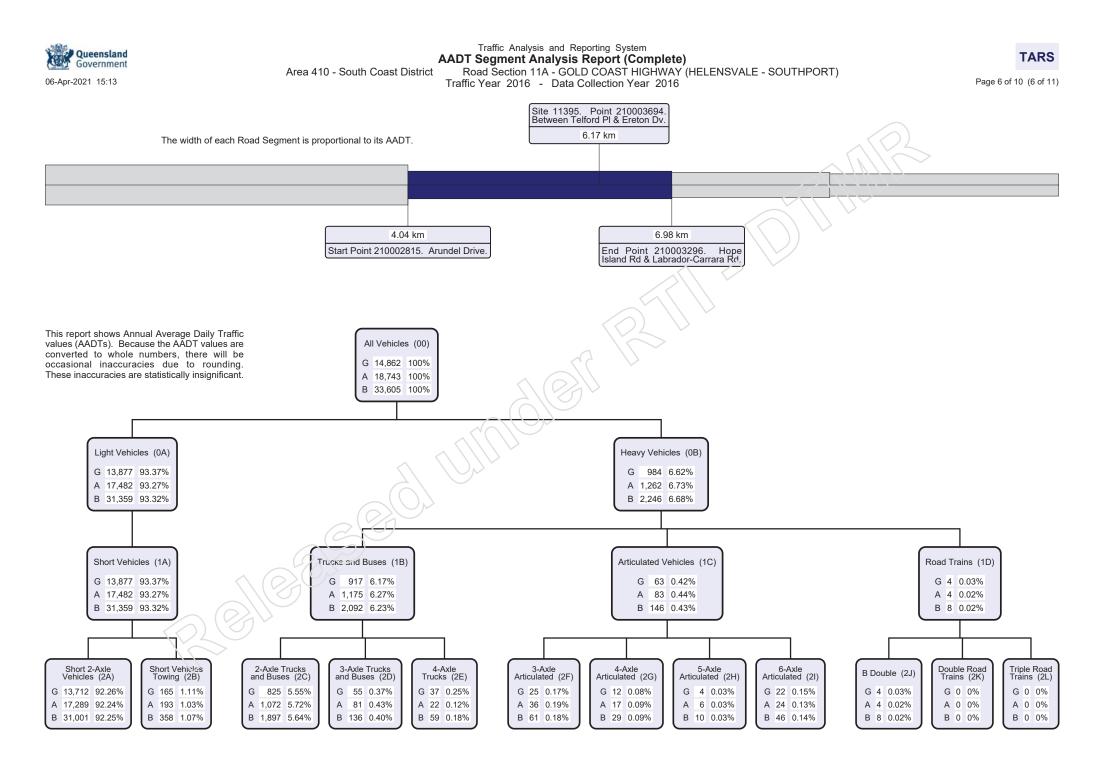
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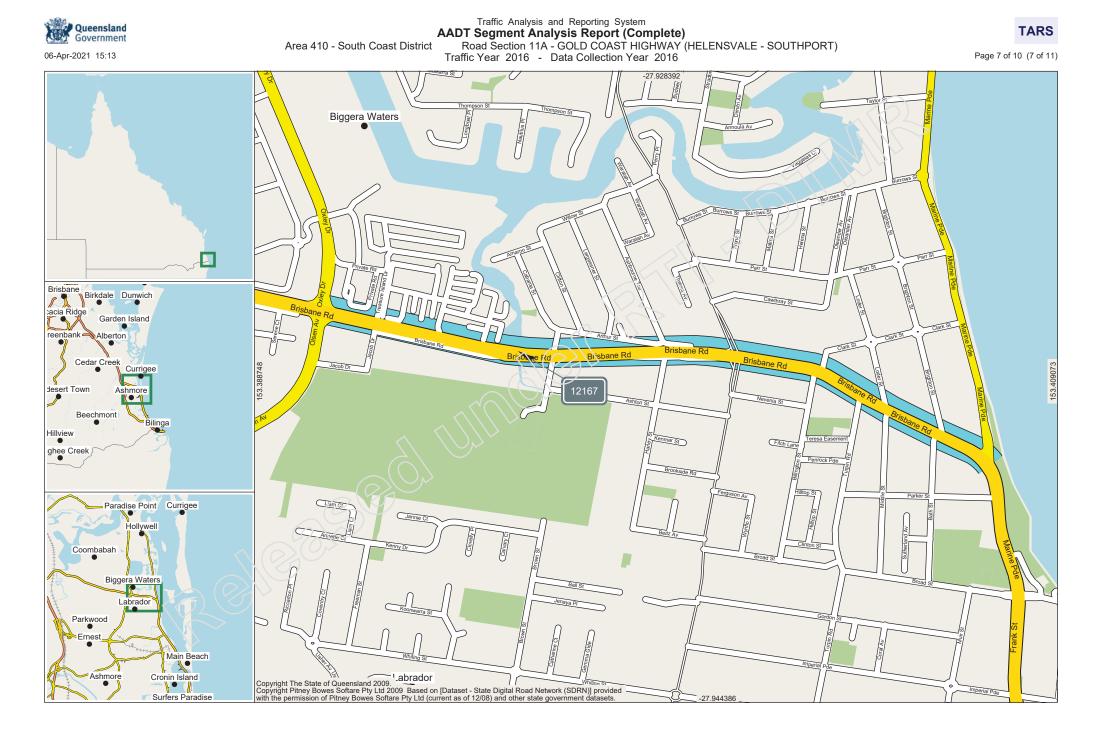
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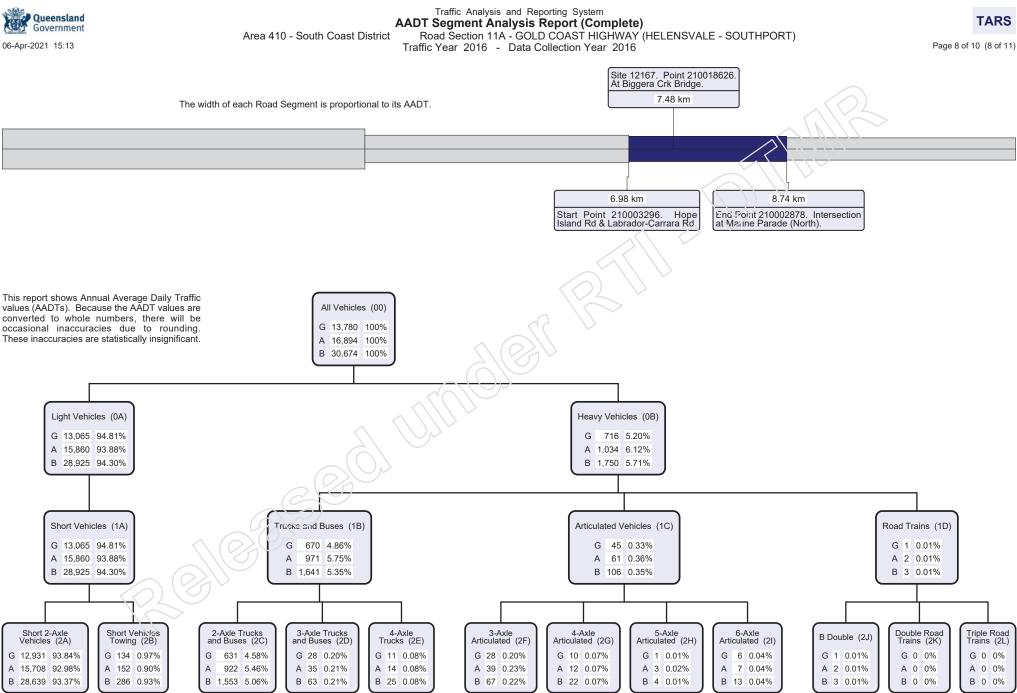


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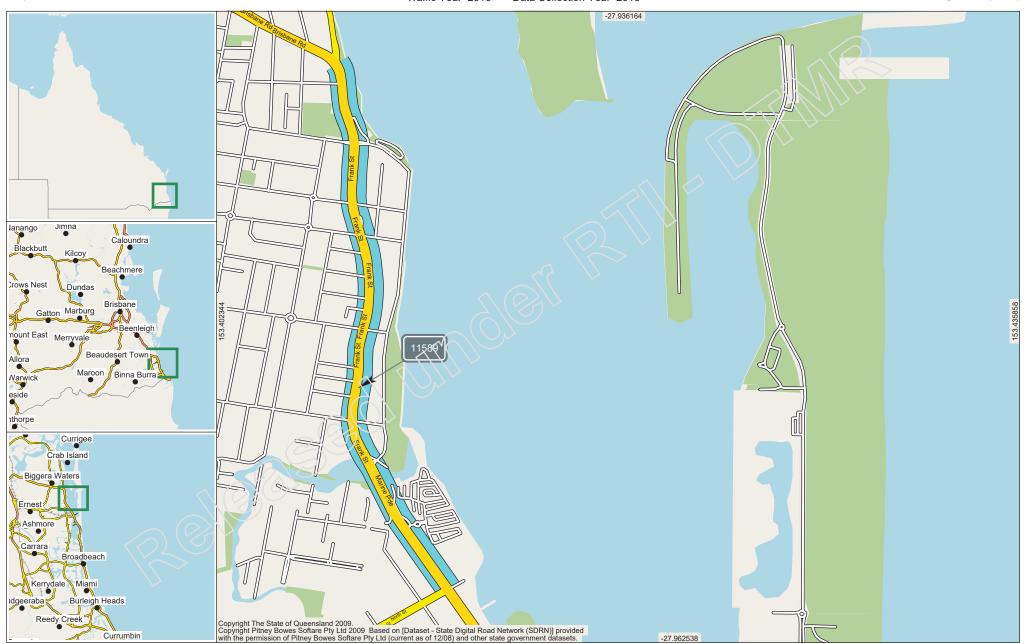
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Traffic Analysis and Reporting System AADT Segment Analysis Report (Complete) Area 410 - South Coast District Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2016 - Data Collection Year 2016

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Traffic Analysis and Reporting System TARS AADT Segment Analysis Report (Complete) Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Area 410 - South Coast District Traffic Year 2016 - Data Collection Year 2016 Page 10 of 10 (10 of 11) Site 11589. Point 210003837 30m south of Bradford St. 10.26 km The width of each Road Segment is proportional to its AADT. 11.29 km 8.74 km Start Point 210002878. Intersection at Marine Parade (North). End Point 210002880. Smith Street Connection Rd (North St) Intersection. This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are All Vehicles (00) converted to whole numbers, there will be occasional inaccuracies due to rounding. G 12.279 100% These inaccuracies are statistically insignificant. A 14,710 100% B 26,989 100% Light Vehicles (0A) Heavy Vehicles (0B) G 11.766 95.82% 512 4.17% G A 14,063 95.60% А 646 4.39% B 25,829 95.70% B 1.158 4.29% Short Vehicles (1A) Road Trains (1D) Trucks and Buses (1B) Articulated Vehicles (1C) G 11,766 95.82% G 481 3.92% G 30 0.24% G 1 0.01% A 14,063 95.60% 608 4.13% A 37 0.25% A 1 0.01% А B 25.829 95.70% B 1.089 4.03% B 67 0.25% B 2 0.01% Short 2-Axle Short Vehicles 2-Axle Trucks 3-Axle Trucks 4-Axle 4-Axle 6-Axle Articulated (2I) Double Road Triple Road 3-Axle 5-Axle B Double (2J) Vehicles (2A) Towing (2B) and Buses (2C) and Buses (2D) Trucks (2E) Articulated (2F) Articulated (2G) Articulated (2H) Trains (2L) Trains (2K) G 90 0.73% G 7 0.06% G 6 0.05% G 11,676 95.09% G 456 3.71% G 18 0.15% G 21 0.17% G 1 0.01% G 2 0.02% G 1 0.01% G 0 0% G 0 0% A 103 0.70% А A 25 0.17% A 13,960 94.90% 575 3.91% A 18 0.12% A 15 0.10% A 7 0.05% A 1 0.01% A 4 0.03% A 1 0.01% A 0 0% A 0 0% B 25,636 94.99% B 193 0.72% B 1,031 3.82% B 36 0.13% B 46 0.17% B 13 0.05% B 2 0.01% B 6 0.02% B 2 0.01% B 0 0% B 22 0.08% B 0 0%

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AADT Segment Report

Provides AADT Segment details for a Road Section together with the traffic flow data collected at the related Site. Traffic data is reported by the start and end Through Distance of the AADT Segments on each section of road. The road segments are represented diagrammatically with AADT data including:

- AADT by direction of traffic flow
- VKT Vehicle Kilometres Travelled
- %VC Percentage Vehicle Class as per the Austroads vehicle classification scheme

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT Segment

Is a subdivision of a Road Section. The boundaries of an AADT Segment are it's Start Point and End Point (or Start and End Through Distance (TDist)) within the Road Section. These distances are measured in kilometres from the begining of the Road Section in Gazettal Direction. AADT Segments are determined by the traffic volume, collected at a count Site, located within the limits of each AADT Segment.

Annual Segment Growth (when displayed)

A percentage that represents the increase or decrease in AADT for the AADT Segment, using an exponential fit, calculated over a 1, 5 or 10 year period.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

District Name District

Central West District	401
Darling Downs District	402
Far North District	403
Fitzroy District	404
Mackay/Whitsunday District	405
Metropolitian District	406
North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

Data Year

The most recent year the traffic data was collected for this AADT Segment.

Gazettal Direction

The Gazettal Direction is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

- G
- Traffic flowing in Gazettal Direction Traffic flowing against Gazettal Direction R
- The combined traffic flow in both Directions

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site TDist

The Through Distance in gazettal direction from the start of the Road Section at which the site is located.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Through Distance

The distance, in kilometres, from the beginning of the Road Section in Gazettal Direction.

Traffic Class

Is the 12 Austroads vehicle categories or classes into which vehicles are placed or binned. Traffic classes are formed in a hierarchical format.

Volume or All Vehicles

00 = 0A + 0B **Light Vehicles** 0A = 1A = 2A + 2B 1A **Heavy Vehicles** = 1B + 1C + 1D = 2C + 2D + 2E = 2F + 2G + 2H + 2I 0B 1B

= 2J + 2K + 2L 1D

The following classes are the categories for which data can be captured:

Volume 00 All vehicies. 2-Bin

- Light vehicles 0A 0B
 - Heavy vehicles

4-Bin 1A Short vehicles

- 18 Truck or bus
- 1CArticulated vehicles
- 1D Road train

12-Bin

- Short 2 axle vehicles 2A
- Short vehicles towing 28 2C 2 axle truck or bus
- 2D 3 axle truck or bus
- 4 axle truck 2E
- 2F 3 axle articulated vehicle
- 4 axle articulated vehicle 5 axle articulated vehicle 2G 2H
- 21 6 axle articulated vehicle
- 2.1 B double
- 2ĸ Double road train
- Triple road train

Vehicle Kilometres Travelled (VKT)

Daily VKT is a measure of the traffic demand. It is calculated by the length of an AADT Segment in kilometres multiplied by its AADT. The yearly VKT is the daily VKT multiplied by 365 days.

AADT Segment Summary - All Vehicles The Total VKT can be used to gauge the demand on an entire Road Section.

AADT Segment Summary - Heavy Vehicles only A blank field indicates that vehicle classification data was not collected for this AADT Segment.

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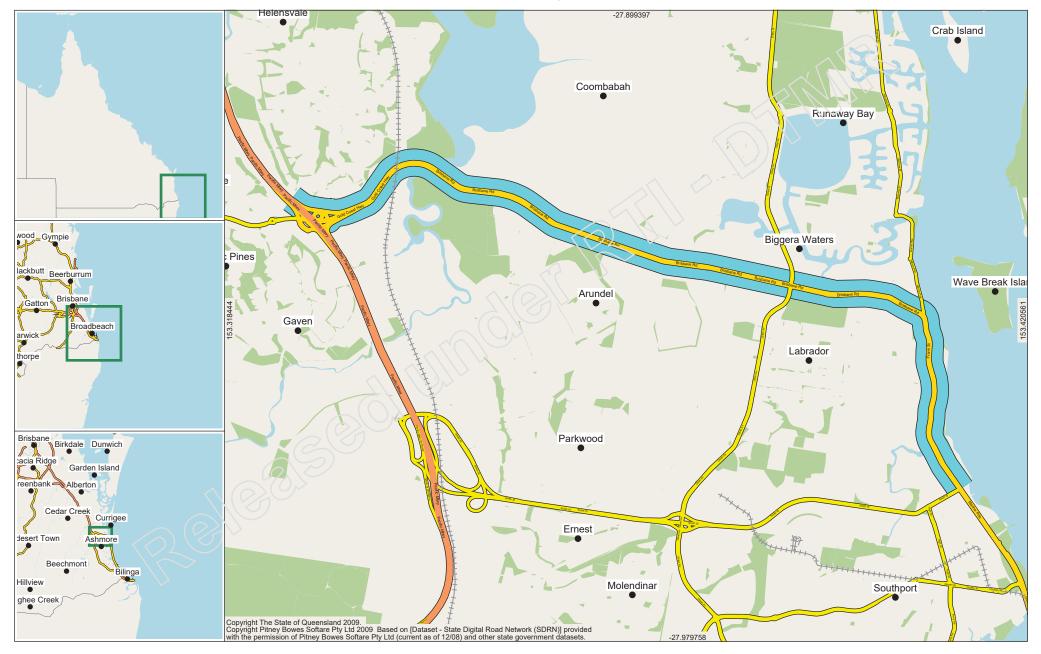




Traffic Analysis and Reporting System **AADT Segment Analysis Report (Complete)** Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2017

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Traffic Analysis and Reporting System AADT Segment Analysis Report (Complete) Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2017

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Road Segments Summary - All Vehicles

	Segment	Segment				AADT			١	/KT (Million	s)	Data	2
Region	Start Tdist	End Tdist	Site	Site Tdist	Description	G	Α	В	G	Α	В	Year	Page
410	0.000 km	4.040 km	10007	3.310 km	300m west of Marble Arch PI Int- SS 5185	21,861	27,273	49,134	32.23623	40.21677	72.45300	2017	2
410	4.040 km	6.980 km	11395	6.170 km	Between Telford PI and Ereton Dr	15,119	18,631	33,750	16.22420	19.99293	36.21713	2017	3
410	6.980 km	8.740 km	12167	7.480 km	Biggera Creek Bridge	13,826	16,600	30,426	8.88182	10.66384	19.54568	2017	4
410	8.740 km	11.290 km	11589	10.260 km	30m south of Bradford St	11,622	14,102	25,724	10.81718	13.12544	23.94261	2017	5
								Totals	68.15943	83.99397	152.15840		

Road Segments Summary - Heavy Vehicles only

VKT totals are calculated only if traffic class data is available fc; all sites.

							HY AADT									
	Segment	Segment					G		4	В		HV	HV VKT (Millions)			
Region	Start Tdist	End Tdist	Site	Site Tdist	Description	AADT	HV %	AADT	HV %	AADT	HV %	G	Α	В	Year	Page
410	0.000 km	4.040 km	10007	3.310 km	300m west of Marble Arch PI Int- SS 5185	2,321	10.62%	2,045	7.50%	4,366	8.89%	3.42255	3.01556	6.43810	2017	2
410	4.040 km	6.980 km	11395	6.170 km	Between Telford PI and Ereton Dr	980	6.48%	1,391	7.47%	2,371	7.03%	1.05164	1.49268	2.54432	2017	3
410	6.980 km	8.740 km	12167	7.480 km	Biggera Creek Bridge	694	5.02%	1,029	6.20%	1,723	5.66%	0.44583	0.66103	1.10686	2017	4
410	8.740 km	11.290 km	11589	10.260 km	30m south of Bradford St	348	2.99%	721	5.11%	1,069	4.16%	0.32390	0.67107	0.99497	2017	5
					770	Z7)	~				Totals	5.24391	5.84034	11.08425		

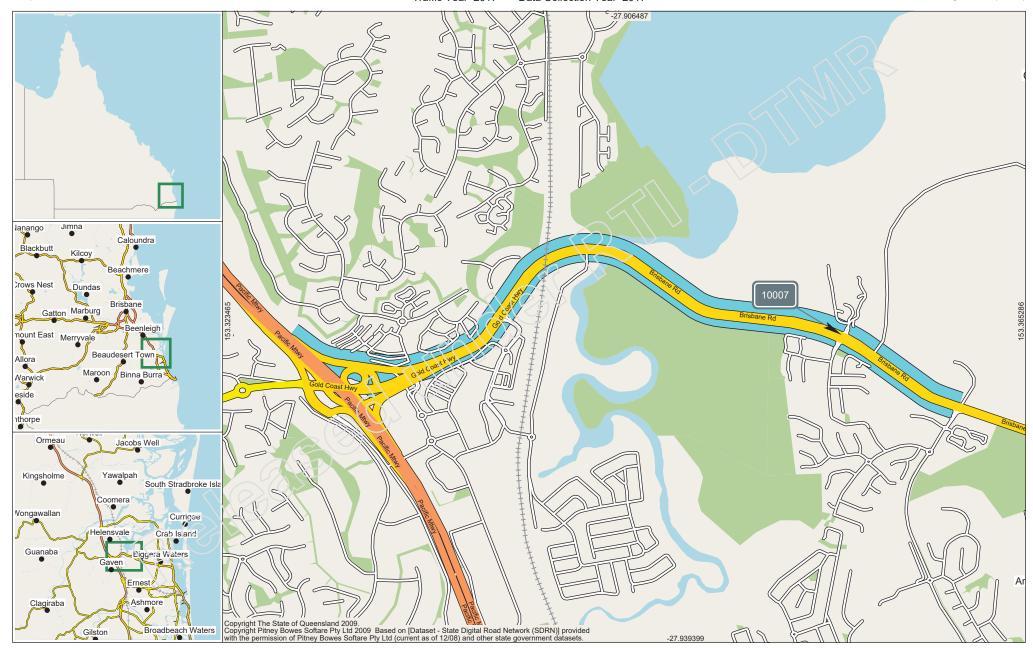
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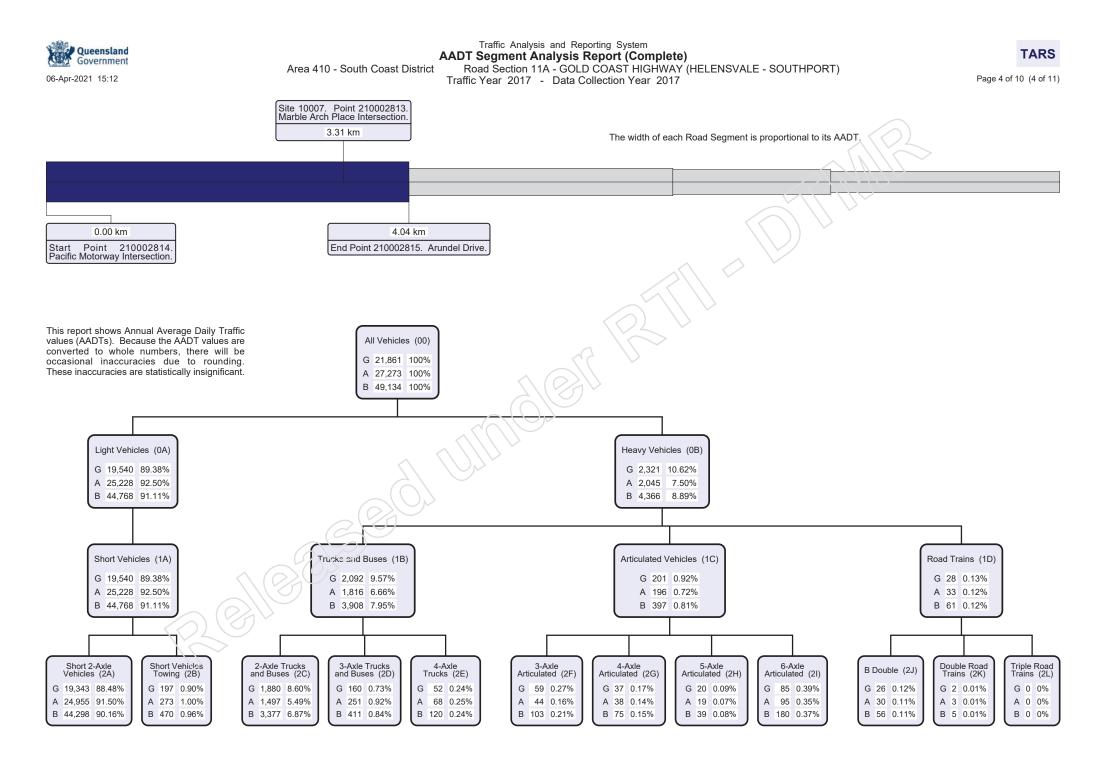
Traffic Analysis and Reporting System AADT Segment Analysis Report (Complete) Area 410 - South Coast District Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2017 - Data Collection Year 2017

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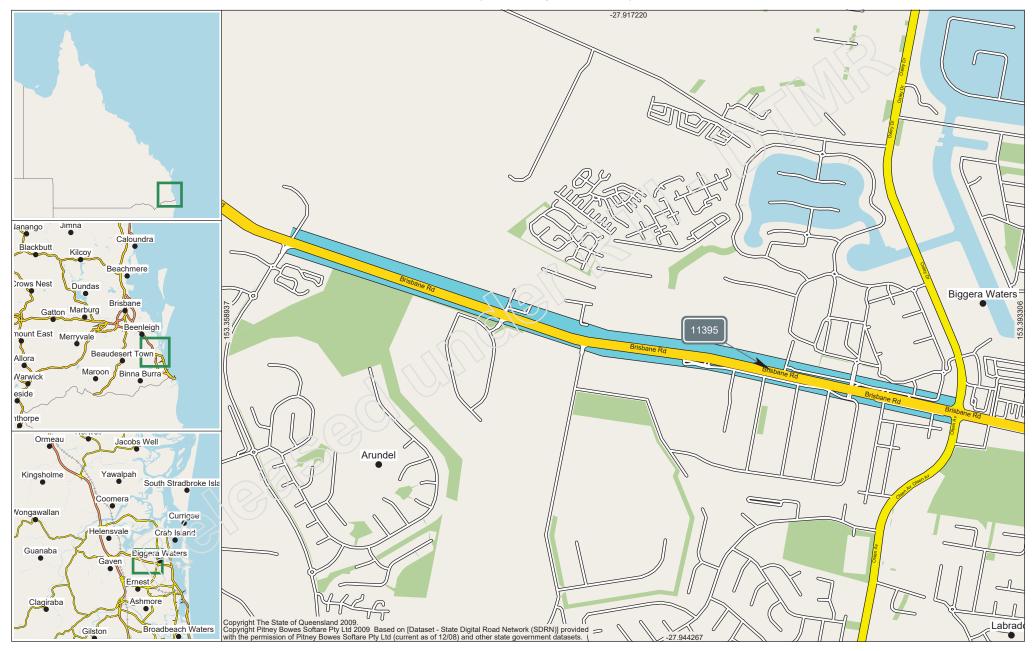
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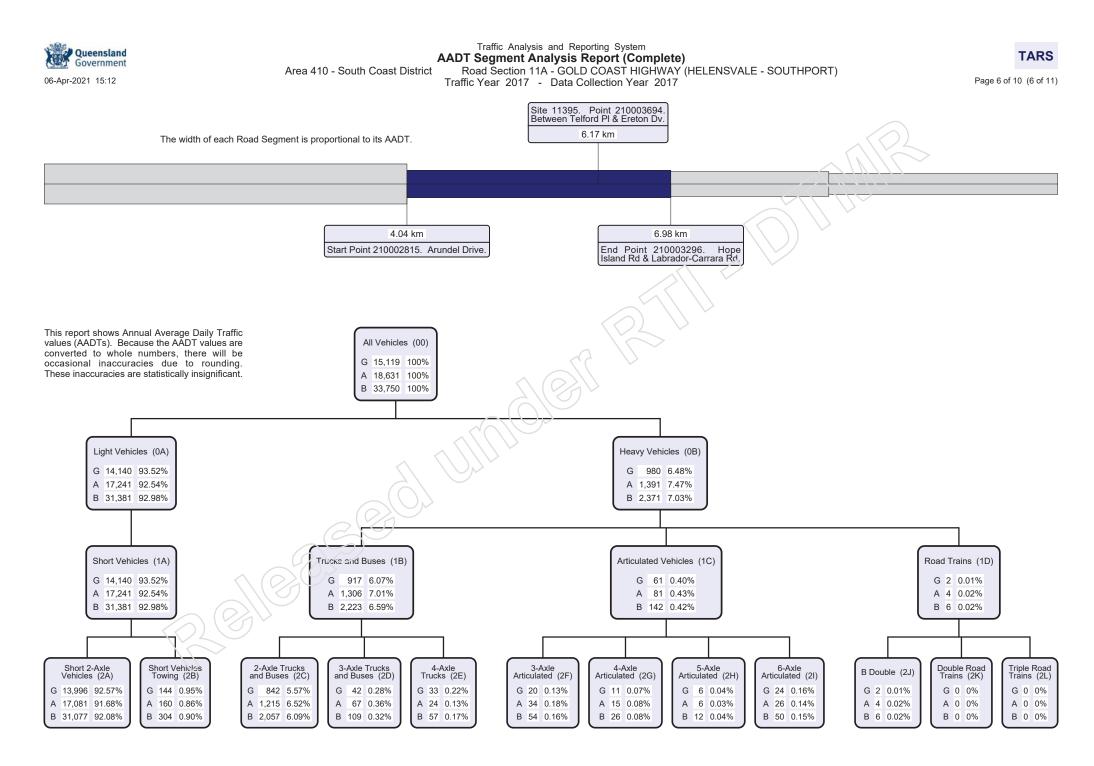
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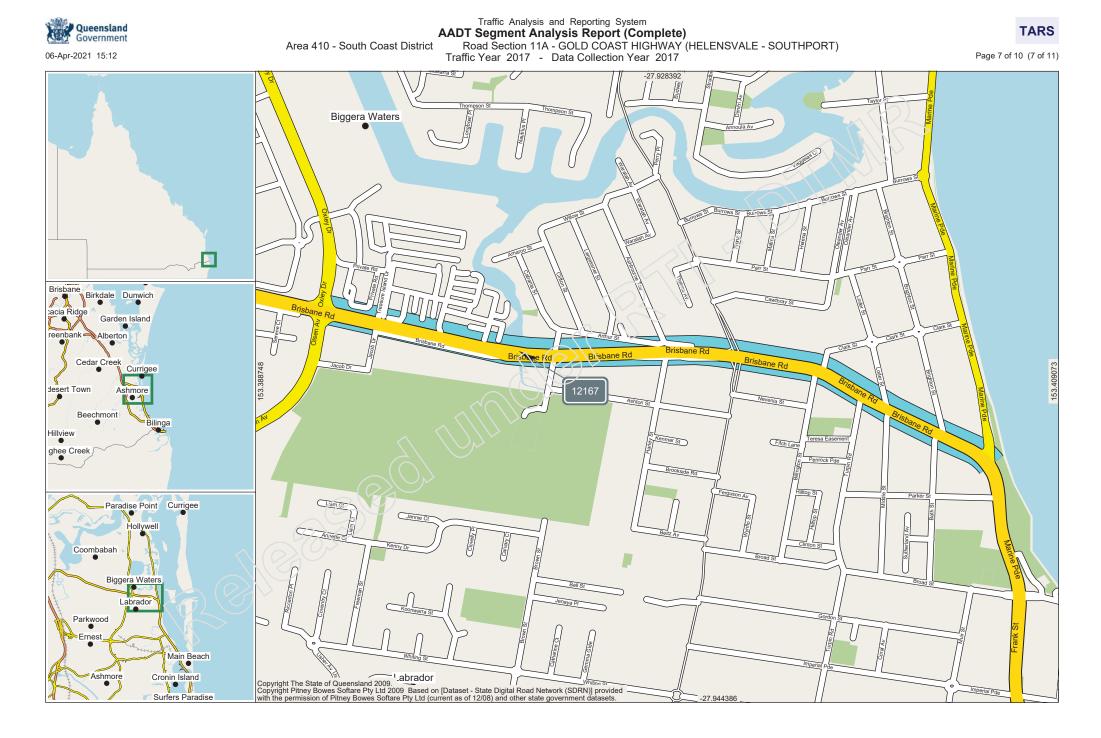
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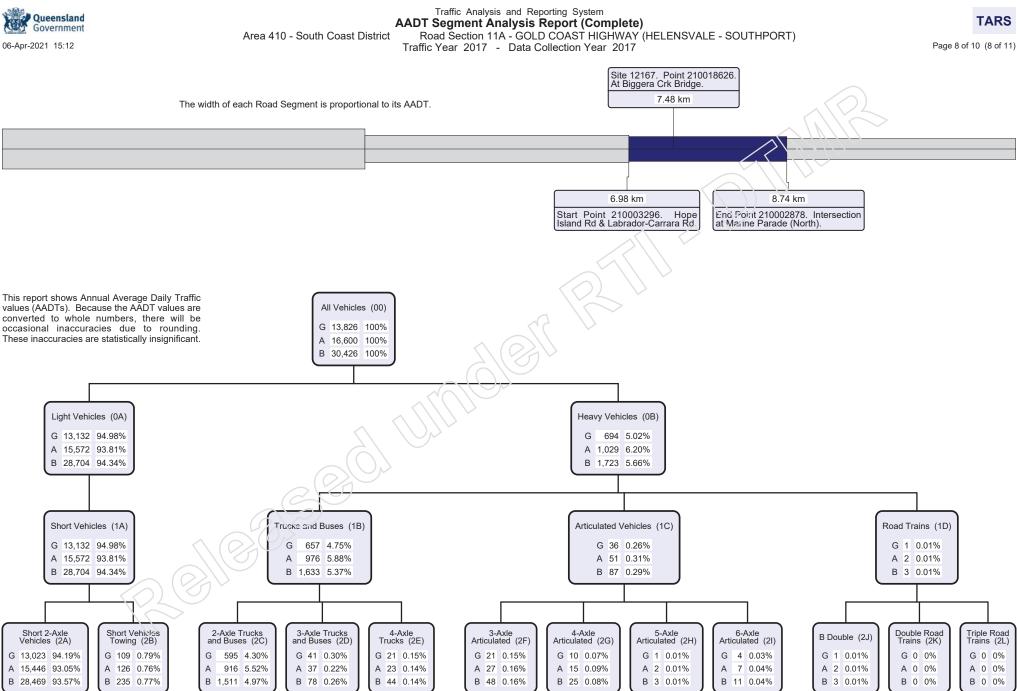


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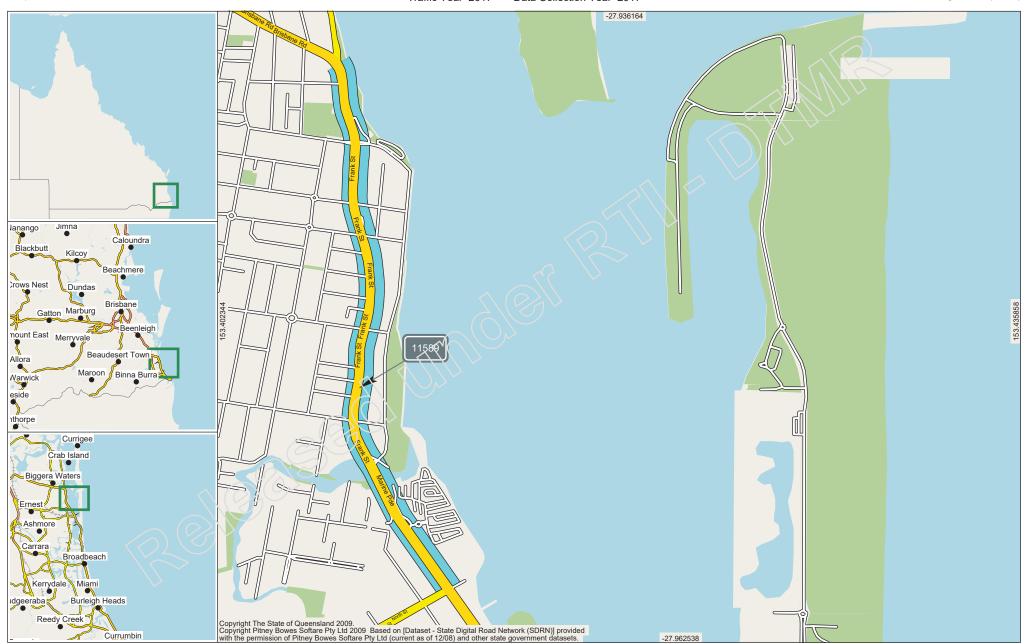
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Traffic Analysis and Reporting System AADT Segment Analysis Report (Complete) Area 410 - South Coast District Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2017 - Data Collection Year 2017

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Traffic Analysis and Reporting System TARS AADT Segment Analysis Report (Complete) Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Area 410 - South Coast District Traffic Year 2017 - Data Collection Year 2017 Page 10 of 10 (10 of 11) Site 11589. Point 210003837 30m south of Bradford St. 10.26 km The width of each Road Segment is proportional to its AADT. 11.29 km 8.74 km Start Point 210002878. Intersection at Marine Parade (North). End Point 210002880. Smith Street Connection Rd (North St) Intersection. This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are All Vehicles (00) converted to whole numbers, there will be occasional inaccuracies due to rounding. G 11,622 100% These inaccuracies are statistically insignificant. A 14,102 100% B 25,724 100% Light Vehicles (0A) Heavy Vehicles (0B) G 11.273 97.00% 348 2.99% G A 13,380 94.88% А 721 5.11% B 24,653 95.84% B 1.069 4.16% Short Vehicles (1A) Trucks and Buses (1B) Articulated Vehicles (1C) Road Trains (1D) G 11,273 97.00% 328 2.82% G 20 0.17% G 0 0.00% G A 13,380 94.88% 685 4.86% А A 35 0.25% A 1 0.01% B 24.653 95.84% B 1.013 3.94% B 55 0.21% B 1 0.00% Short 2-Axle Short Vehicles 2-Axle Trucks 3-Axle Trucks Double Road Triple Road 4-Axle 3-Axle 4-Axle 5-Axle 6-Axle B Double (2J) Articulated (2I) Vehicles (2A) Towing (2B) and Buses (2C) and Buses (2D) Trucks (2E) Articulated (2F) Articulated (2G) Articulated (2H) Trains (2L) Trains (2K) G 72 0.62% G 302 2.60% G 14 0.12% G 12 0.10% G 15 0.13% G 2 0.02% G 11,201 96.38% G 2 0.02% G 1 0.01% G 0 0.00% G 0 0% G 0 0% A 7 0.05% A 13,302 94.33% A 78 0.55% A 650 4.61% A 18 0.13% A 17 0.12% A 23 0.16% A 1 0.01% A 4 0.03% A 1 0.01% A 0 0% A 0 0% B 24,503 95.25% B 150 0.58% B 952 3.70% B 29 0.11% B 9 0.03% B 2 0.01% B 1 0.00% B 0 0% B 0 0% B 32 0.12% B 38 0.15% B 6 0.02%

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AADT Segment Report

Provides AADT Segment details for a Road Section together with the traffic flow data collected at the related Site. Traffic data is reported by the start and end Through Distance of the AADT Segments on each section of road. The road segments are represented diagrammatically with AADT data including:

- AADT by direction of traffic flow
- VKT Vehicle Kilometres Travelled
- %VC Percentage Vehicle Class as per the Austroads vehicle classification scheme

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT Segment

Is a subdivision of a Road Section. The boundaries of an AADT Segment are it's Start Point and End Point (or Start and End Through Distance (TDist)) within the Road Section. These distances are measured in kilometres from the begining of the Road Section in Gazettal Direction. AADT Segments are determined by the traffic volume, collected at a count Site, located within the limits of each AADT Segment.

Annual Segment Growth (when displayed)

A percentage that represents the increase or decrease in AADT for the AADT Segment, using an exponential fit, calculated over a 1, 5 or 10 year period.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

District Name District

Biotriot Harris Biotriot	
Central West District	401
Darling Downs District	402
Far North District	403
Fitzroy District	404
Mackay/Whitsunday District	405
Metropolitian District	406
North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

Data Year

The most recent year the traffic data was collected for this AADT Segment.

Gazettal Direction

The Gazettal Direction is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

- G
- Traffic flowing in Gazettal Direction Traffic flowing against Gazettal Direction R
- The combined traffic flow in both Directions

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site TDist

The Through Distance in gazettal direction from the start of the Road Section at which the site is located.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Through Distance

The distance, in kilometres, from the beginning of the Road Section in Gazettal Direction.

Traffic Class

Is the 12 Austroads vehicle categories or classes into which vehicles are placed or binned. Traffic classes are formed in a hierarchical format.

Volume or All Vehicles

00 = 0A + 0B **Light Vehicles** 0A = 1A = 2A + 2B 1A **Heavy Vehicles** = 1B + 1C + 1D = 2C + 2D + 2E = 2F + 2G + 2H + 2I 0B 1B

= 2J + 2K + 2L 1D

The following classes are the categories for which data can be captured:

Volume 00 All vehicies. 2-Bin

Light vehicles 0A

Heavy vehicles 0B 4-Bin

1A Short vehicles

- 18 Truck or bus
- 1CArticulated vehicles Road train

1D 12-Bin

- Short 2 axle vehicles 2A
- Short vehicles towing 28
- 2C 2 axle truck or bus
- 2D 3 axle truck or bus
- 4 axle truck 2E 2F
- 3 axle articulated vehicle 2G
- 4 axle articulated vehicle 5 axle articulated vehicle 2H
- 21 6 axle articulated vehicle
- 2.1 B double
- 2ĸ Double road train Triple road train

Vehicle Kilometres Travelled (VKT)

Daily VKT is a measure of the traffic demand. It is calculated by the length of an AADT Segment in kilometres multiplied by its AADT. The yearly VKT is the daily VKT multiplied by 365 days.

AADT Segment Summary - All Vehicles The Total VKT can be used to gauge the demand on an entire Road Section.

AADT Segment Summary - Heavy Vehicles only A blank field indicates that vehicle classification data was not collected for this AADT Segment.

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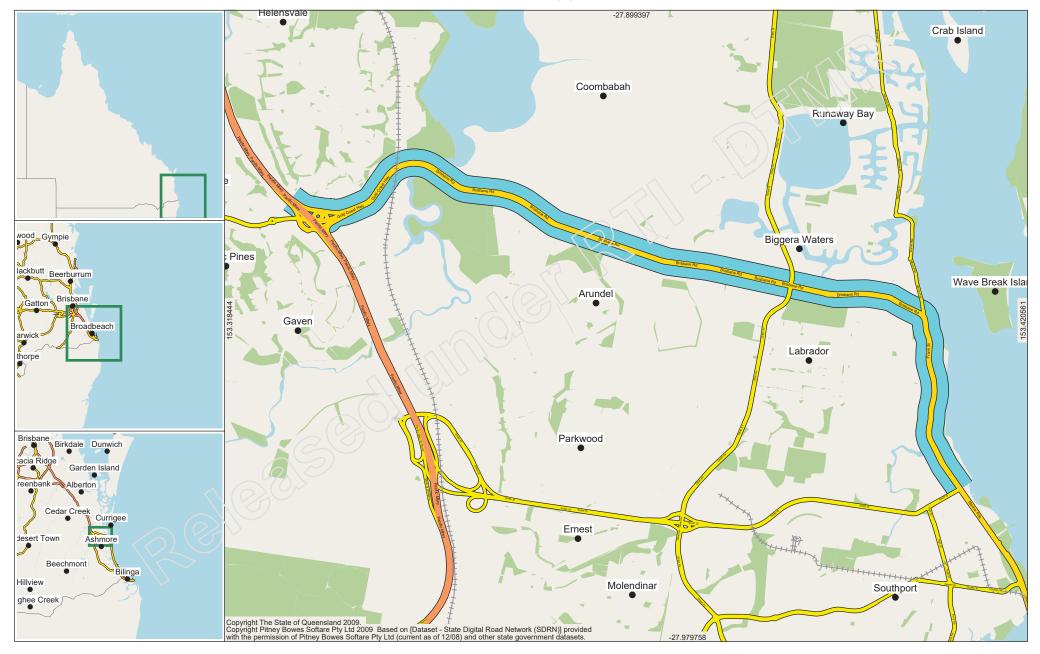




Traffic Analysis and Reporting System **AADT Segment Analysis Report (Complete)** Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2018

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Traffic Analysis and Reporting System **AADT Segment Analysis Report (Complete)** Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2018

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Road Segments Summary - All Vehicles

	Segment	Segment				AADT			١	/KT (Million	s)	Dəta	2
Region	Start Tdist	End Tdist	Site	Site Tdist	Description	G	A	В	G	A	В	Year	Page
410	0.000 km	4.040 km	10007	3.310 km	300m west of Marble Arch PI Int- SS 5185	22,251	27,430	49,681	32.81132	40.44828	73.25960	2018	2
410	4.040 km	6.980 km	11395	6.170 km	Between Telford PI and Ereton Dr	14,663	17,845	32,508	15.73487	19.14947	34.68433	2018	3
410	6.980 km	8.740 km	12167	7.480 km	Biggera Creek Bridge	13,678	16,172	29,850	8.78675	10.38889	19.17564	2018	4
410	8.740 km	11.290 km	11589	10.260 km	30m south of Bradford St	12,091	14,019	26,110	11.25370	13.04818	24.30188	2018	5
								Totals	68.58664	83.03482	151.62146		

Road Segments Summary - Heavy Vehicles only

VKT totals are calculated only if traffic class data is available fc; all sites.

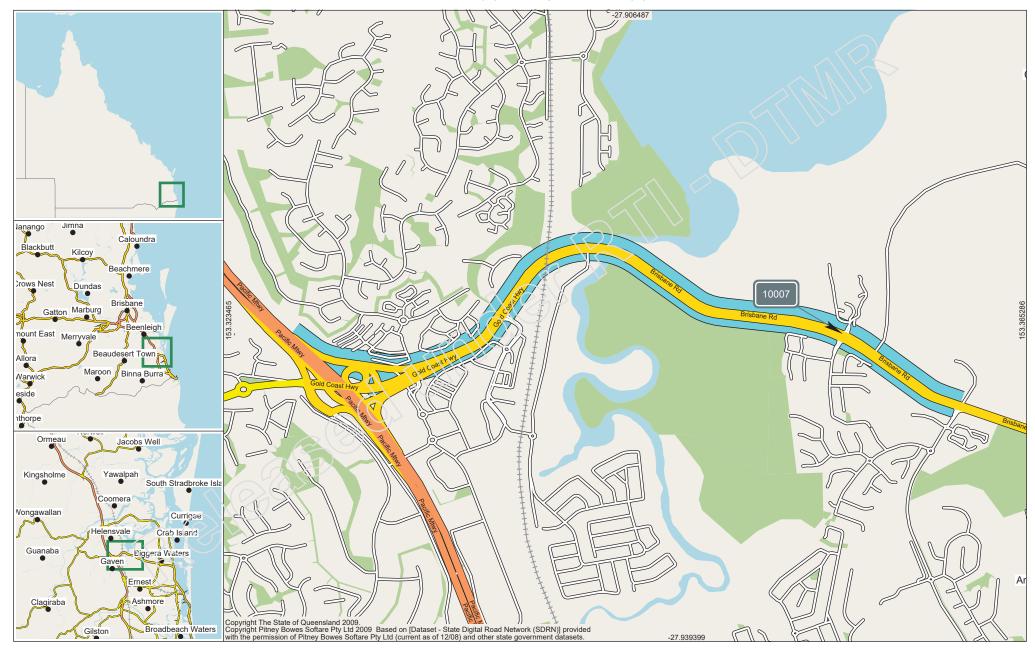
							HV AADT									
	Segment	Segment				G A B HV VKT (Millions				ions)	Data					
Region	Start Tdist	End Tdist	Site	Site Tdist	Description	AADT	HV %	AADT	HV %	AADT	HV %	G	Α	В	Year	Page
410	0.000 km	4.040 km	10007	3.310 km	300m west of Marble Arch PI Int- SS 5185	1,511	6.79%	2,675	9.75%	4,186	8.43%	2.22812	3.94455	6.17268	2018	2
410	4.040 km	6.980 km	11395	6.170 km	Between Telford PI and Ereton Dr	1,212	8.27%	1,306	7.32%	2,518	7.75%	1.30060	1.40147	2.70207	2018	3
410	6.980 km	8.740 km	12167	7.480 km	Biggera Creek Bridge	514	3.76%	798	4.93%	1,312	4.40%	0.33019	0.51264	0.84283	2018	4
410	8.740 km	11.290 km	11589	10.260 km	30m south of Bradford St	532	4.40%	844	6.02%	1,376	5.27%	0.49516	0.78555	1.28071	2018	5
					770	77 T					Totals	4.35407	6.64421	10.99828		



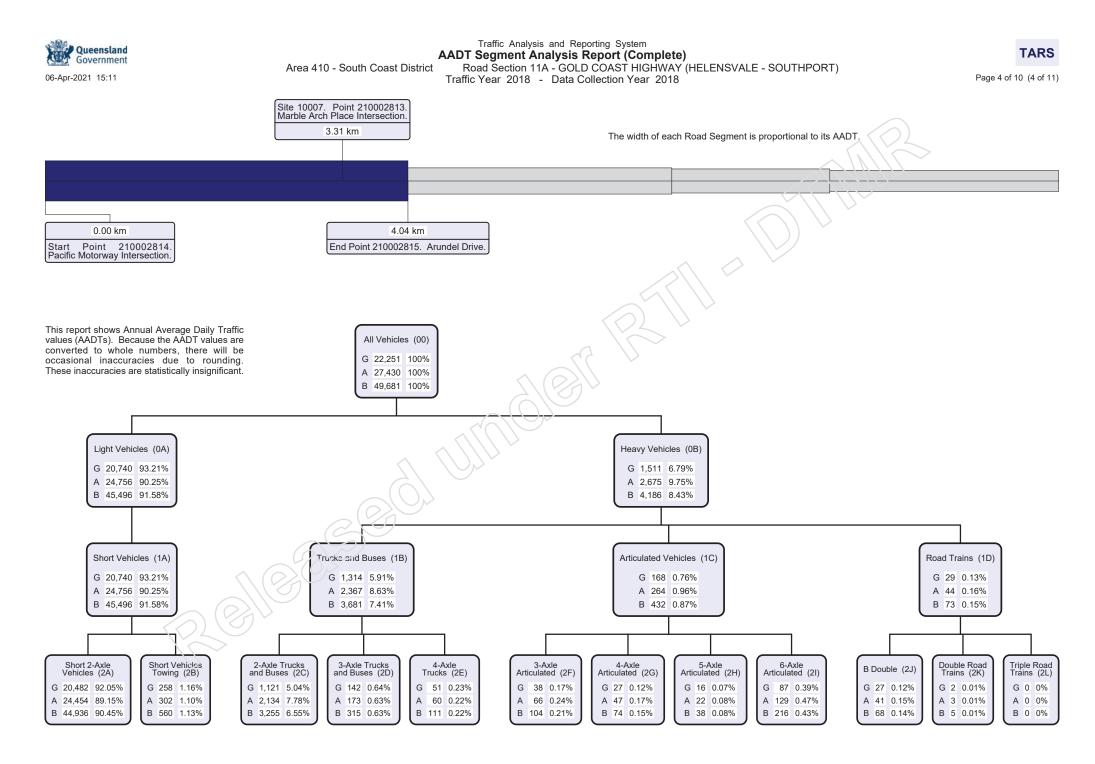
Traffic Analysis and Reporting System AADT Segment Analysis Report (Complete) Area 410 - South Coast District Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2018



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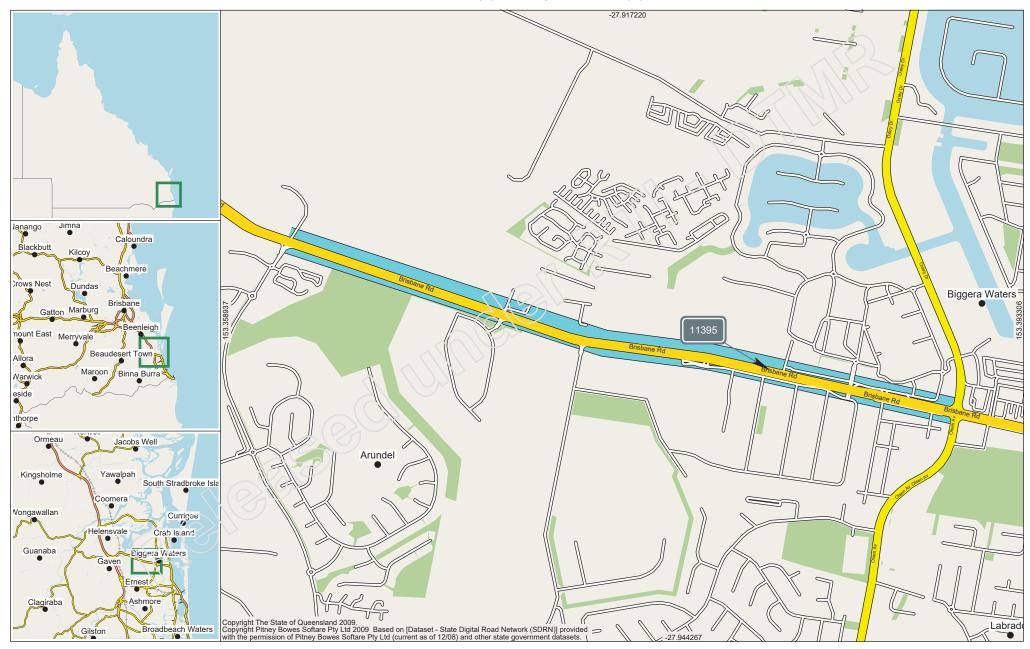
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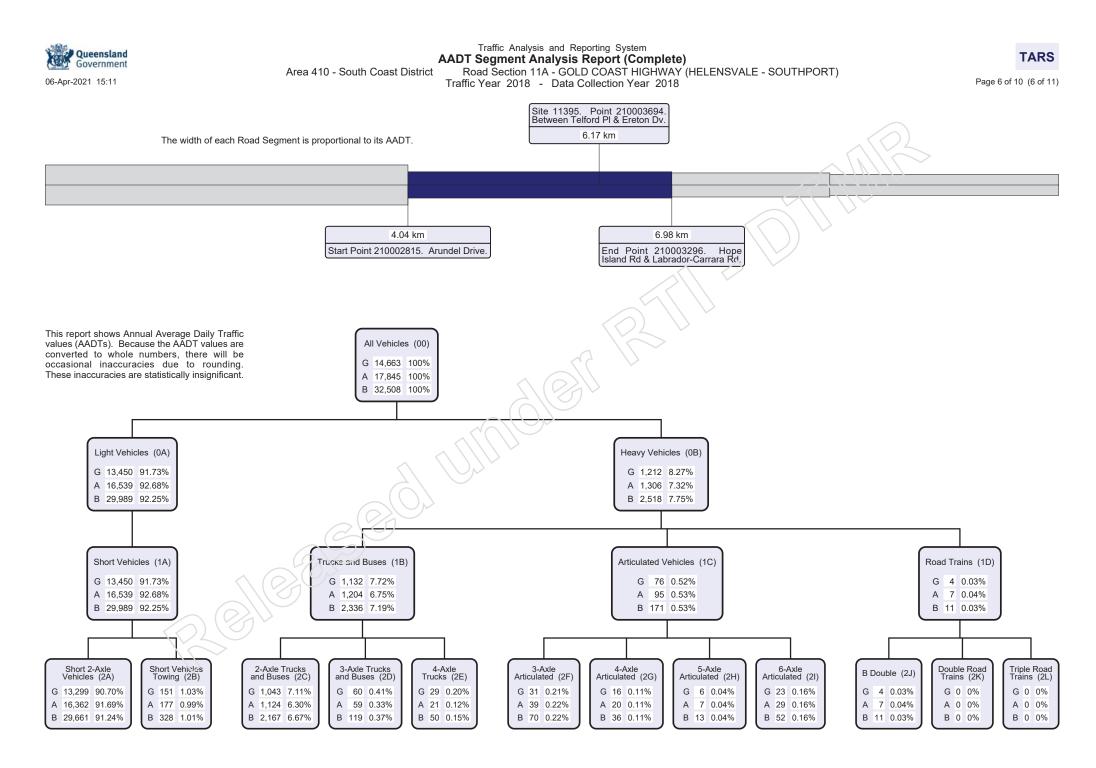
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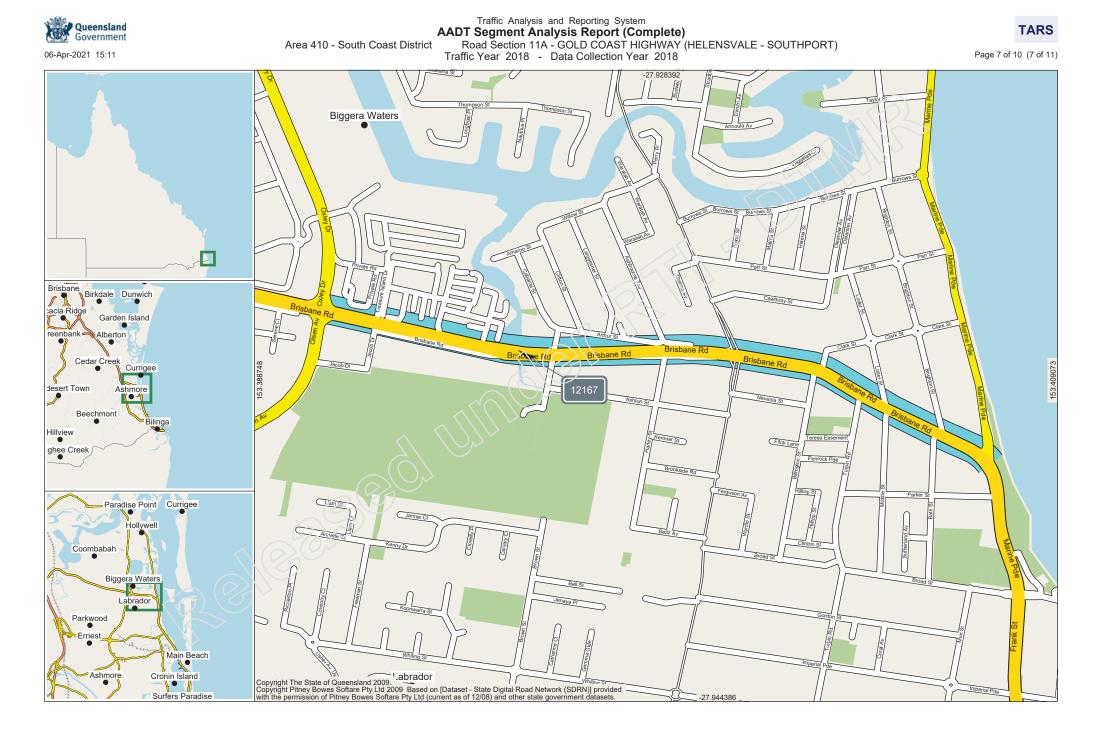
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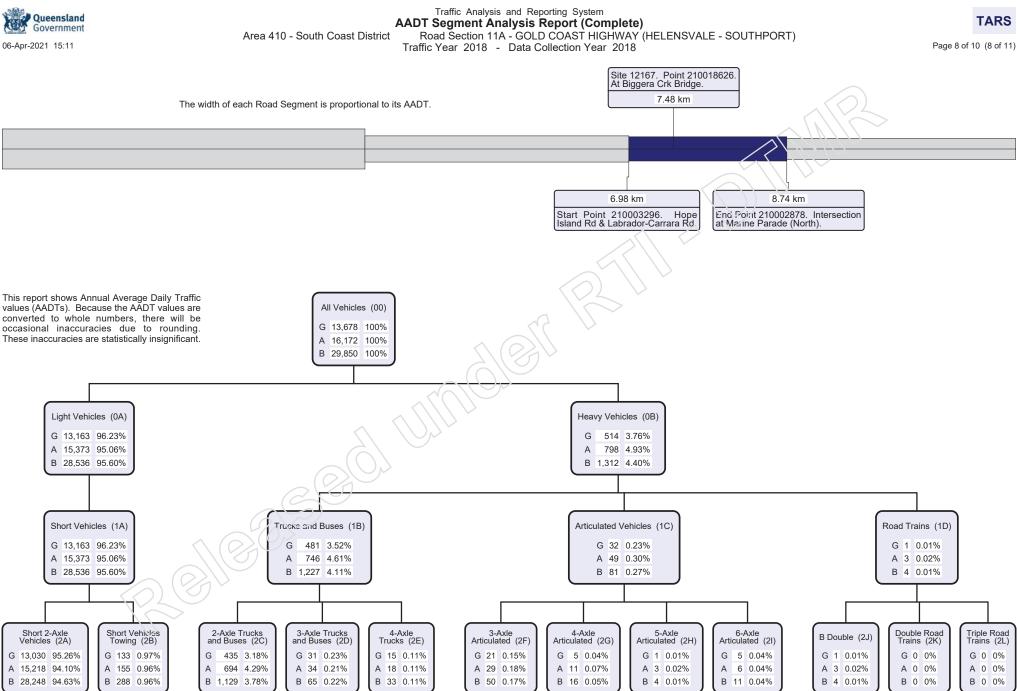


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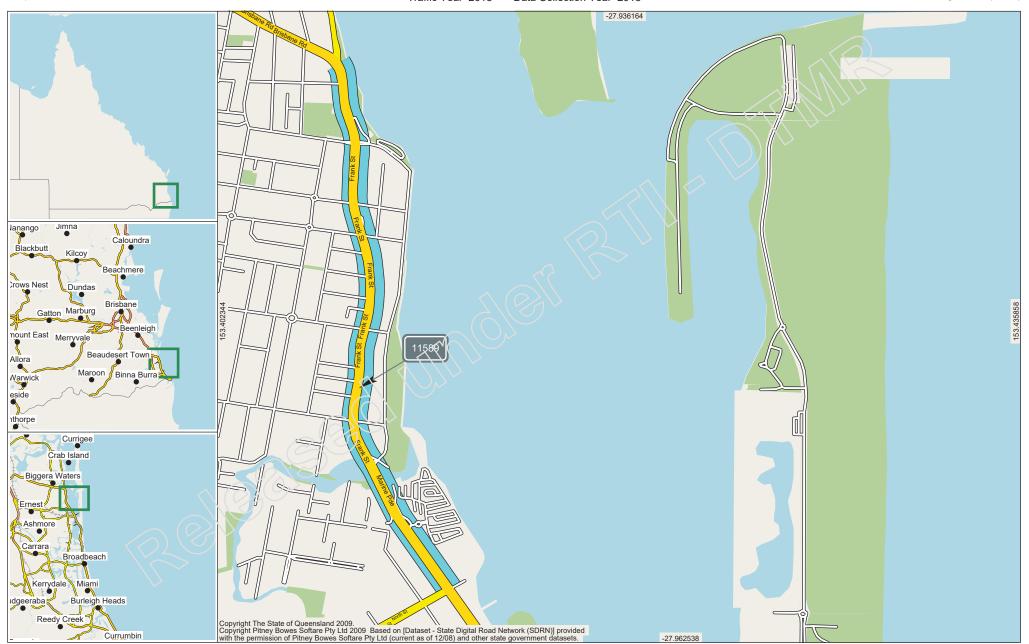
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Traffic Analysis and Reporting System AADT Segment Analysis Report (Complete) Area 410 - South Coast District Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2018 - Data Collection Year 2018

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Traffic Analysis and Reporting System TARS AADT Segment Analysis Report (Complete) Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Area 410 - South Coast District Traffic Year 2018 - Data Collection Year 2018 Page 10 of 10 (10 of 11) Site 11589. Point 210003837 30m south of Bradford St. 10.26 km The width of each Road Segment is proportional to its AADT. 11.29 km 8.74 km Start Point 210002878. Intersection at Marine Parade (North). End Point 210002880. Smith Street Connection Rd (North St) Intersection. This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are All Vehicles (00) converted to whole numbers, there will be occasional inaccuracies due to rounding. G 12.091 100% These inaccuracies are statistically insignificant. A 14,019 100% B 26,110 100% Light Vehicles (0A) Heavy Vehicles (0B) G 11.559 95.60% 532 4.40% G A 13,175 93.98% А 844 6.02% B 24,734 94.73% B 1,376 5.27% Short Vehicles (1A) Road Trains (1D) Trucks and Buses (1B) Articulated Vehicles (1C) G 11,559 95.60% 502 4.15% G 30 0.25% G 0 0.00% G A 13,175 93.98% 795 5.67% A 46 0.33% A 3 0.02% Α B 24.734 94.73% B 1.297 4.97% B 76 0.29% B 3 0.01% Short 2-Axle Short Vehicles 2-Axle Trucks 3-Axle Trucks 4-Axle 4-Axle 6-Axle Articulated (2I) Double Road Triple Road 3-Axle 5-Axle B Double (2J) Towing (2B) Vehicles (2A) and Buses (2C) and Buses (2D) Trucks (2E) Articulated (2F) Articulated (2G) Articulated (2H) Trains (2L) Trains (2K) G 89 0.74% G 10 0.08% G 5 0.04% G 11,470 94.86% G 475 3.93% G 17 0.14% G 22 0.18% G 1 0.01% G 2 0.02% G 0 0.00% G 0 0% G 0 0% А A 29 0.21% A 13,081 93.31% A 94 0.67% 760 5.42% A 21 0.15% A 14 0.10% A 10 0.07% A 1 0.01% A 6 0.04% A 3 0.02% A 0 0% A 0 0% B 24,551 94.03% B 183 0.70% B 1,235 4.73% B 38 0.15% B 51 0.20% B 15 0.06% B 2 0.01% B 8 0.03% B 3 0.01% B 0 0% B 24 0.09% B 0 0%

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AADT Segment Report

Provides AADT Segment details for a Road Section together with the traffic flow data collected at the related Site. Traffic data is reported by the start and end Through Distance of the AADT Segments on each section of road. The road segments are represented diagrammatically with AADT data including:

- AADT by direction of traffic flow
- VKT Vehicle Kilometres Travelled
- %VC Percentage Vehicle Class as per the Austroads vehicle classification scheme

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT Segment

Is a subdivision of a Road Section. The boundaries of an AADT Segment are it's Start Point and End Point (or Start and End Through Distance (TDist)) within the Road Section. These distances are measured in kilometres from the begining of the Road Section in Gazettal Direction. AADT Segments are determined by the traffic volume, collected at a count Site, located within the limits of each AADT Segment.

Annual Segment Growth (when displayed)

A percentage that represents the increase or decrease in AADT for the AADT Segment, using an exponential fit, calculated over a 1, 5 or 10 year period.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

District Name District

Central West District	401
Darling Downs District	402
Far North District	403
Fitzroy District	404
Mackay/Whitsunday District	405
Metropolitian District	406
North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

Data Year

The most recent year the traffic data was collected for this AADT Segment.

Gazettal Direction

The Gazettal Direction is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

- G
- Traffic flowing in Gazettal Direction Traffic flowing against Gazettal Direction R
- The combined traffic flow in both Directions

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site TDist

The Through Distance in gazettal direction from the start of the Road Section at which the site is located.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Through Distance

The distance, in kilometres, from the beginning of the Road Section in Gazettal Direction.

Traffic Class

Is the 12 Austroads vehicle categories or classes into which vehicles are placed or binned. Traffic classes are formed in a hierarchical format.

Volume or All Vehicles

00 = 0A + 0B **Light Vehicles** 0A = 1A = 2A + 2B 1A **Heavy Vehicles** = 1B + 1C + 1D = 2C + 2D + 2E = 2F + 2G + 2H + 2I 0B 1B

= 2J + 2K + 2L 1D

The following classes are the categories for which data can be captured:

Volume 00 All vehicies. 2-Bin

Light vehicles 0A

Heavy vehicles 0B 4-Bin

1A Short vehicles

- 18 Truck or bus
- 1CArticulated vehicles
- 1D Road train

12-Bin

- Short 2 axle vehicles 2A Short vehicles towing 28
- 2C 2 axle truck or bus
- 2D 3 axle truck or bus
- 4 axle truck 2E
- 2F 3 axle articulated vehicle
- 4 axle articulated vehicle 5 axle articulated vehicle 2G
- 2H 21 6 axle articulated vehicle
- 2.1 B double
- 2ĸ Double road train
- Triple road train

Vehicle Kilometres Travelled (VKT)

Daily VKT is a measure of the traffic demand. It is calculated by the length of an AADT Segment in kilometres multiplied by its AADT. The yearly VKT is the daily VKT multiplied by 365 days.

AADT Segment Summary - All Vehicles The Total VKT can be used to gauge the demand on an entire Road Section.

AADT Segment Summary - Heavy Vehicles only A blank field indicates that vehicle classification data was not collected for this AADT Segment.

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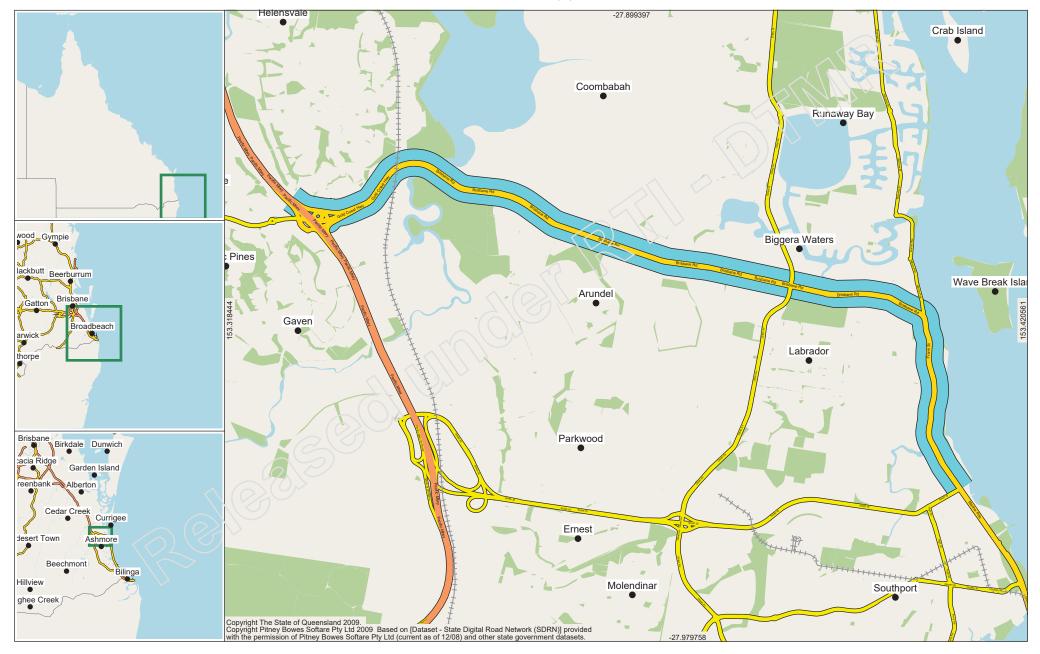




Traffic Analysis and Reporting System **AADT Segment Analysis Report (Complete)** Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2019

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Traffic Analysis and Reporting System AADT Segment Analysis Report (Complete) Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2019

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Road Segments Summary - All Vehicles

	Segment	Segment				AADT			\	/KT (Million	s)	Dəta	<u>l</u>
Region	Start Tdist	End Tdist	Site	Site Tdist	Description	G	A	В	G	A	В	Year	Pago
410	0.000 km	4.040 km	10007	3.310 km	300m west of Marble Arch PI Int- SS 5185	22,646	27,652	50,298	33.39379	40.77564	74.16943	2019	2
410	4.040 km	6.980 km	11395	6.170 km	Between Telford PI and Ereton Dr	15,295	18,332	33,627	16.41306	19.67207	36.08513	2019	3
410	6.980 km	8.740 km	12167	7.480 km	Biggera Creek Bridge	14,277	16,484	30,761	9.17154	10.58932	19.76087	2019	4
410	8.740 km	11.290 km	11589	10.260 km	30m south of Bradford St	11,869	14,074	25,943	11.04707	13.09938	24.14645	2019	5
								Totals	70.02547	84.13641	154.16188		

Road Segments Summary - Heavy Vehicles only

VKT totals are calculated only if traffic class data is available fc; all sites.

							HV AADT			<u> </u>						
	Segment	Segment					GA		<u>к</u> е	3	HV	VKT (Milli	ions)	Data		
Region	Start Tdist	End Tdist	Site	Site Tdist	Description	AADT	HV %	AADT	HV %	AADT	HV %	G	Α	В	Year	Page
410	0.000 km	4.040 km	10007	3.310 km	300m west of Marble Arch PI Int- SS 5185	2,293	10.13%	2,442	8.83%	4,735	9.41%	3.38126	3.60097	6.98223	2019	2
410	4.040 km	6.980 km	11395	6.170 km	Between Telford PI and Ereton Dr	1,154	7.54%	1,307	7.13%	2,461	7.32%	1.23836	1.40254	2.64090	2019	3
410	6.980 km	8.740 km	12167	7.480 km	Biggera Creek Bridge	895	6.27%	1,154	7.00%	2,049	6.66%	0.57495	0.74133	1.31628	2019	4
410	8.740 km	11.290 km	11589	10.260 km	30m south of Bradford St	535	4.51%	758	5.39%	1,293	4.98%	0.49795	0.70551	1.20346	2019	5
					770	77					Totals	5.69251	6.45035	12.14287		

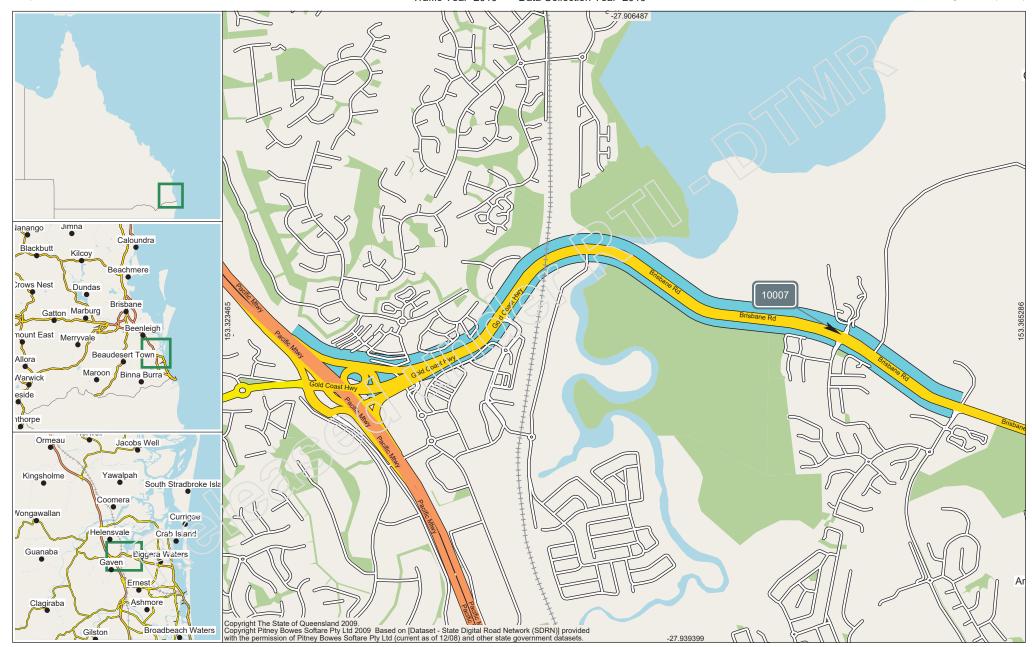
And Plin. .d Pland Ereton Di .reek Bridge in south of Bradford St



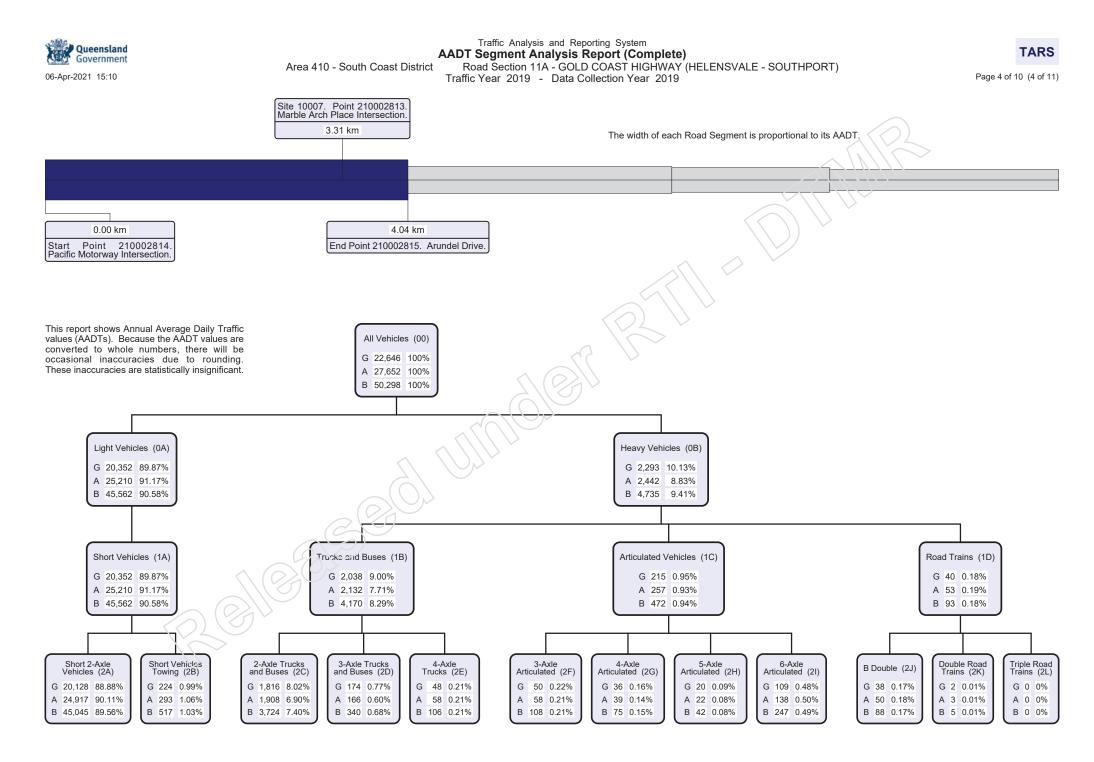
Traffic Analysis and Reporting System AADT Segment Analysis Report (Complete) Area 410 - South Coast District Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2019 - Data Collection Year 2019

TARS

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 Traffic Analysis and Reporting System

 AADT Segment Analysis Report (Complete)

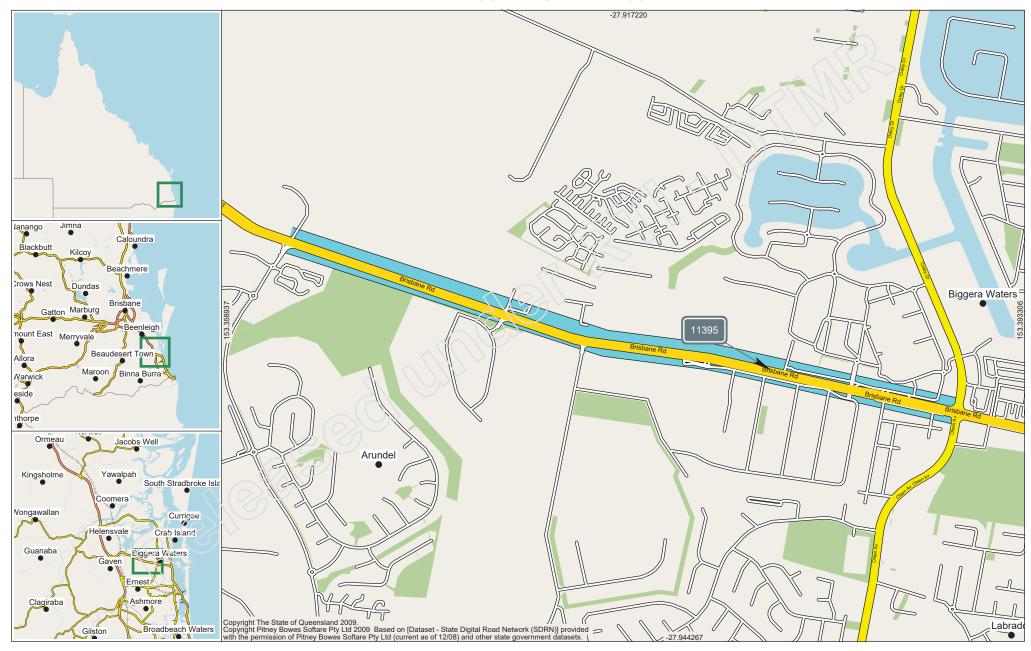
 Area 410 - South Coast District

 Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT)

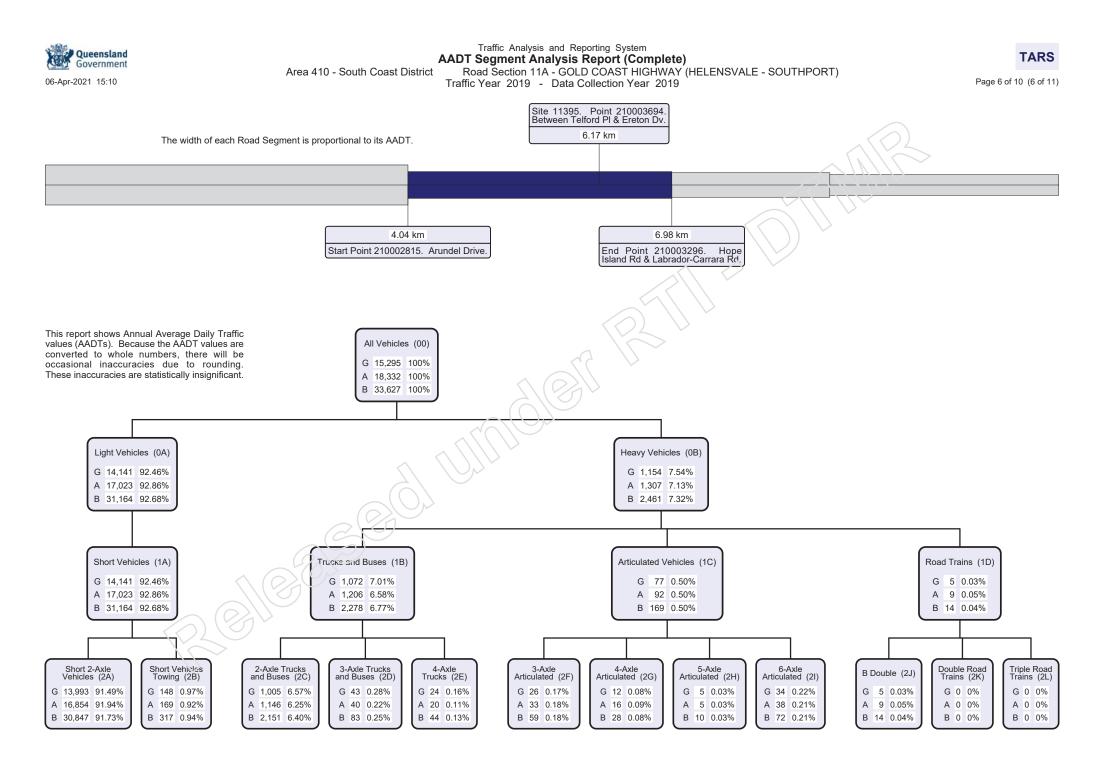
 Traffic Year 2019 - Data Collection Year 2019



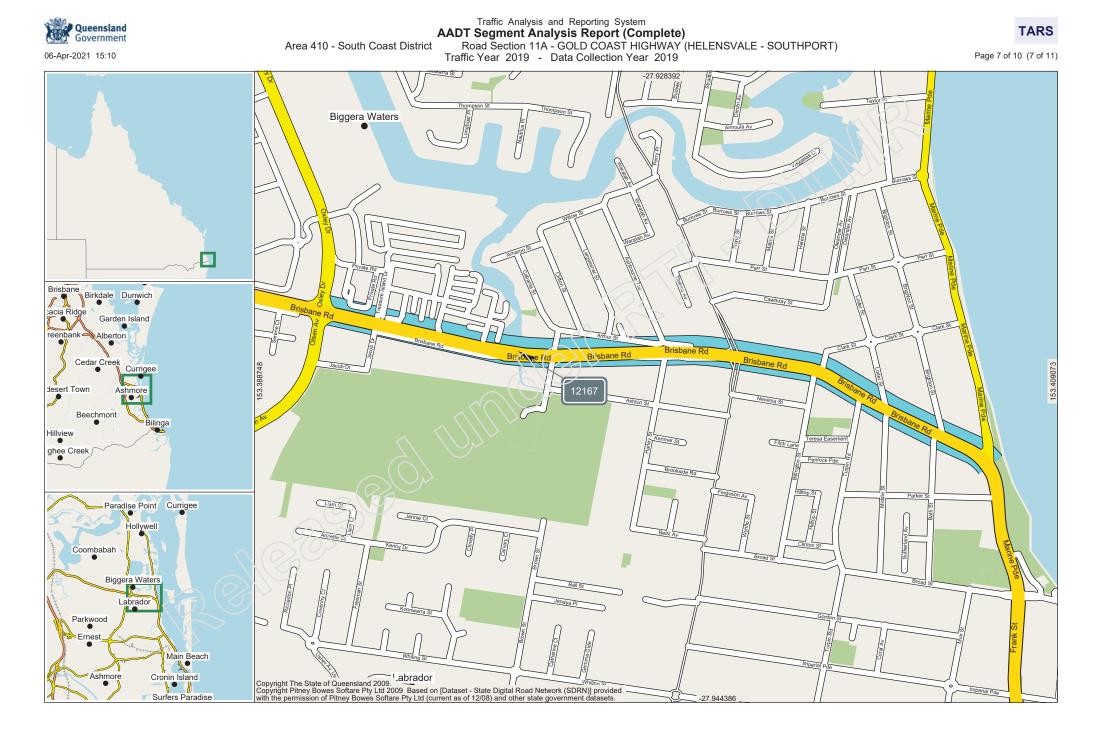
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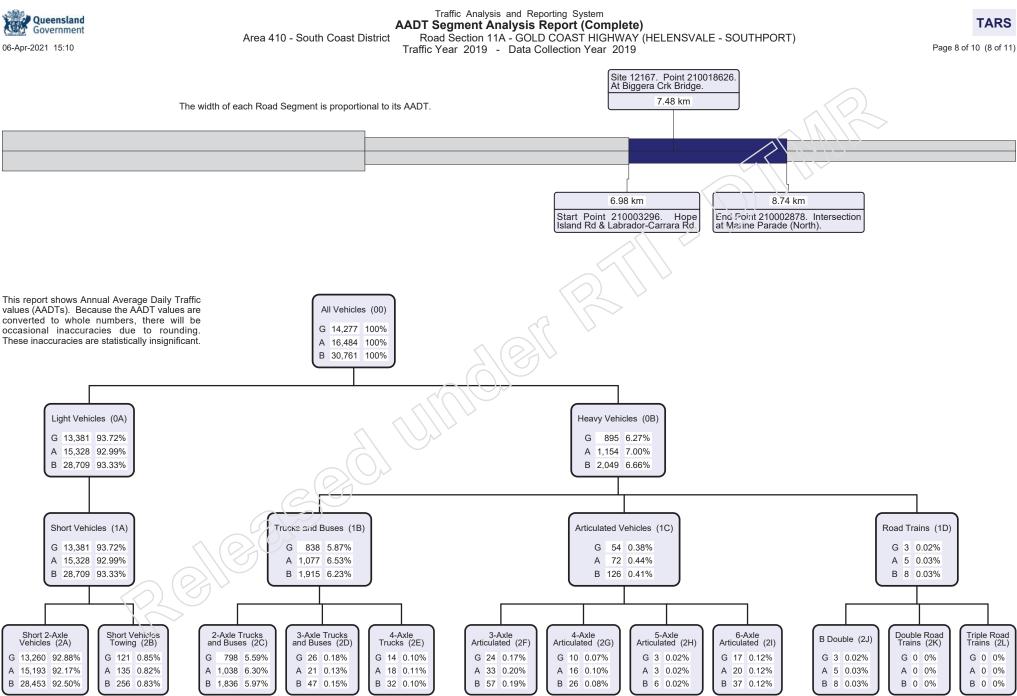


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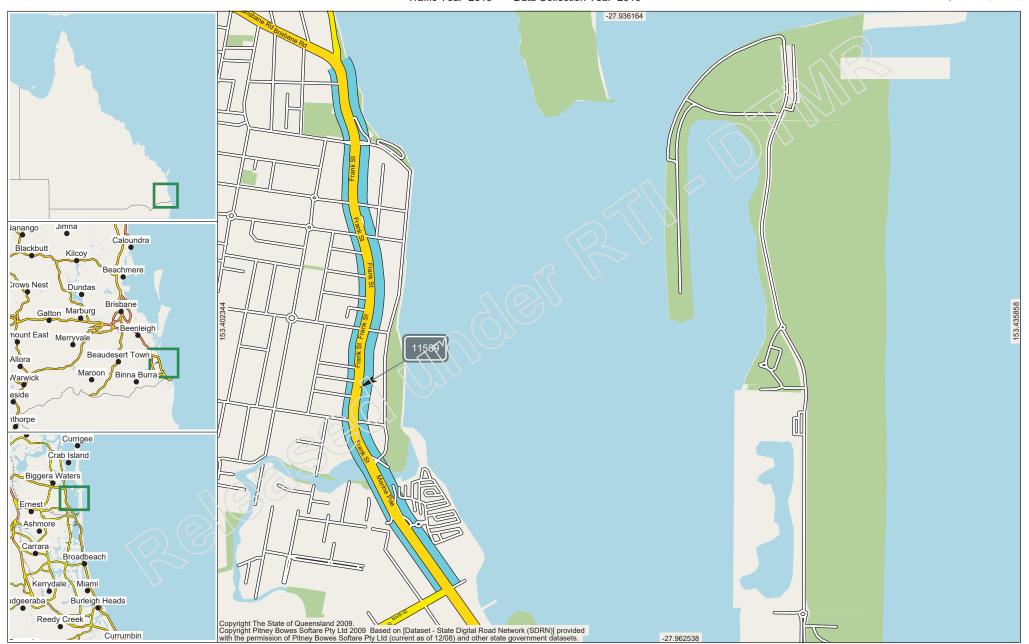
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Traffic Analysis and Reporting System AADT Segment Analysis Report (Complete) Area 410 - South Coast District Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Traffic Year 2019 - Data Collection Year 2019

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Traffic Analysis and Reporting System TARS AADT Segment Analysis Report (Complete) Road Section 11A - GOLD COAST HIGHWAY (HELENSVALE - SOUTHPORT) Area 410 - South Coast District Traffic Year 2019 - Data Collection Year 2019 Page 10 of 10 (10 of 11) Site 11589. Point 210003837. 30m south of Bradford St. 10.26 km The width of each Road Segment is proportional to its AADT. 11.29 km 8.74 km Start Point 210002878. Intersection at Marine Parade (North). End Point 210002880. Smith Street Connection Rd (North St) Intersection. This report shows Annual Average Daily Traffic values (AADTs). Because the AADT values are All Vehicles (00) converted to whole numbers, there will be occasional inaccuracies due to rounding. G 11.869 100% These inaccuracies are statistically insignificant. A 14,074 100% B 25,943 100% Light Vehicles (0A) Heavy Vehicles (0B) G 11.334 95.49% 535 4.51% G A 13,315 94.61% А 758 5.39% B 24,649 95.01% B 1.293 4.98% Short Vehicles (1A) Trucks and Buses (1B) Road Trains (1D) Articulated Vehicles (1C) G 11,334 95.49% G 507 4.27% G 28 0.24% G 0 0.00% A 13,315 94.61% A 718 5.10% A 37 0.26% A 3 0.02% B 24.649 95.01% B 1.225 4.72% B 65 0.25% B 3 0.01% Short 2-Axle Short Vehicles 2-Axle Trucks 3-Axle Trucks 4-Axle 4-Axle 6-Axle Articulated (2I) Double Road Triple Road 3-Axle 5-Axle B Double (2J) Towing (2B) Vehicles (2A) and Buses (2C) and Buses (2D) Trucks (2E) Articulated (2F) Articulated (2G) Articulated (2H) Trains (2L) Trains (2K) G 11,258 94.85% G 76 0.64% 487 4.10% G 9 0.08% G 6 0.05% G 1 0.01% G 2 0.02% G G 11 0.09% G 19 0.16% G 0 0.00% G 0 0% G 0 0% А A 25 0.18% A 1 0.01% A 13,224 93.96% A 91 0.65% 690 4.90% A 14 0.10% A 14 0.10% A 8 0.06% A 3 0.02% A 3 0.02% A 0 0% A 0 0% B 24,482 94.37% B 167 0.64% B 1,177 4.54% B 44 0.17% B 14 0.05% B 2 0.01% B 5 0.02% B 3 0.01% B 0 0% B 25 0.10% B 23 0.09% B 0 0%

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AADT Segment Report

Provides AADT Segment details for a Road Section together with the traffic flow data collected at the related Site. Traffic data is reported by the start and end Through Distance of the AADT Segments on each section of road. The road segments are represented diagrammatically with AADT data including:

- AADT by direction of traffic flow
- VKT Vehicle Kilometres Travelled
- %VC Percentage Vehicle Class as per the Austroads vehicle classification scheme

Annual Average Daily Traffic (AADT)

Annual Average Daily Traffic (AADT) is the number of vehicles passing a point on a road in a 24 hour period, averaged over a calendar year.

AADT Segment

Is a subdivision of a Road Section. The boundaries of an AADT Segment are it's Start Point and End Point (or Start and End Through Distance (TDist)) within the Road Section. These distances are measured in kilometres from the begining of the Road Section in Gazettal Direction. AADT Segments are determined by the traffic volume, collected at a count Site, located within the limits of each AADT Segment.

Annual Segment Growth (when displayed)

A percentage that represents the increase or decrease in AADT for the AADT Segment, using an exponential fit, calculated over a 1, 5 or 10 year period.

Area

For administration purposes the Department of Transport and Main Roads has divided Queensland into 12 Districts. The Area field in TSDM reports displays the District Name and Number.

District Name District

Central West District	401
Darling Downs District	402
Far North District	403
Fitzroy District	404
Mackay/Whitsunday District	405
Metropolitian District	406
North Coast District	407
North West District	409
Northern District	408
South Coast District	410
South West District	411
Wide Bay/Burnett District	412

Data Year

The most recent year the traffic data was collected for this AADT Segment.

Gazettal Direction

The Gazettal Direction is the direction of the traffic flow. It can be easily recognised by referring to the name of the road eg. Road Section: 10A Brisbane - Gympie denotes that the gazettal direction is from Brisbane to Gympie.

- G
- Traffic flowing in Gazettal Direction Traffic flowing against Gazettal Direction
- R The combined traffic flow in both Directions

Road Section

Is the Gazetted road from which the traffic data is collected. Each Road Section is given a code, allocated sequentially in Gazettal Direction. Larger roads are broken down into sections and identified by an ID code with a suffix for easier data collection and reporting (eg. 10A, 10B, 10C). Road Sections are then broken into AADT Segments which are determined by traffic volume.

Site

The physical location of a traffic counting device. Sites are located at a specified Through Distance along a Road Section.

Site TDist

The Through Distance in gazettal direction from the start of the Road Section at which the site is located.

Site Description

The description of the physical location of the traffic counting device.

Start and End Point

The unique identifier for the Through Distance along a Road Section.

Through Distance

The distance, in kilometres, from the beginning of the Road Section in Gazettal Direction.

Traffic Class

Is the 12 Austroads vehicle categories or classes into which vehicles are placed or binned. Traffic classes are formed in a hierarchical format.

Volume or All Vehicles

00 = 0A + 0B **Light Vehicles** 0A = 1A = 2A + 2B 1A **Heavy Vehicles** = 1B + 1C + 1D = 2C + 2D + 2E = 2F + 2G + 2H + 2I 0B 1B

= 2J + 2K + 2L 1D

The following classes are the categories for which data can be captured:

Volume 00 All vehicies.

2-Bin Light vehicles 0A

Heavy vehicles 0B

4-Bin 1A

- Short vehicles 18 Truck or bus
- 1CArticulated vehicles
- 1D Road train

12-Bin

- Short 2 axle vehicles 2A
- Short vehicles towing 28
- 2C 2 axle truck or bus 2D 3 axle truck or bus
- 4 axle truck 2E
- 2F 3 axle articulated vehicle
- 4 axle articulated vehicle 5 axle articulated vehicle 2G
- 2H 21 6 axle articulated vehicle
- 2.1 B double
- 2ĸ Double road train
- Triple road train

Vehicle Kilometres Travelled (VKT)

Daily VKT is a measure of the traffic demand. It is calculated by the length of an AADT Segment in kilometres multiplied by its AADT. The yearly VKT is the daily VKT multiplied by 365 days.

AADT Segment Summary - All Vehicles The Total VKT can be used to gauge the demand on an entire Road Section.

AADT Segment Summary - Heavy Vehicles only A blank field indicates that vehicle classification data was not collected for this AADT Segment.

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The department regularly receives requests from external groups to provide traffic volume data for the purpose of undertaking traffic or noise modelling.

An extensive audit was undertaken on behalf of the City of Gold Coast Council and the Department of Transport and Main Roads to investigate the accuracy of vehicle volume data derived from vehicle loop detectors at signalised intersections and reported through the STREAMS ITS platform.

The audit identified that there is a significant degree of inaccuracy and poor reliability with the data, with a large range of error between the vehicle volumes reported from the loop detectors and actual vehicle volumes collected on-site. Analysis of the data showed no consistent 'correction factor' that could be used due to the sporadic large errors in the collected data.

The Department of Transport and Main Roads has consequently decided that, due to the need for extensive validation of the data in order to provide any reasonable certainty regarding accuracy and reliability, that we shall no longer distribute vehicle loop detector data extracted from the STREAMS system.

For the purposes of traffic and noise analysis or modelling, it is recommended that a traffic survey group be engaged to collect accurate data.