

PICADY

GUI Version: 5.1 AE
Analysis Program Release: 5.0 (MAY 2010)

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The user of this computer program for the solution of an engineering problem is in no way relieved of their responsibility for the correctness of the solution

Run Analysis

Parameter	Values
File Run	\\O..\\B2132 Bilsham Road - Graham Road\\B2132 Bilsham Road - Graham Road LANDLINK 300.vpi
Date Run	11 September 2017
Time Run	14:16:33
Driving Side	Drive On The Left

Arm Names and Flow Scaling Factors

Arm	Arm Name	Flow Scaling Factor (%)
Arm A	B2132 Bilsham Road	100
Arm B	Graham Road	100
Arm C	B2132 Bilsham Road	100

Stream Labelling Convention

Stream A-B contains traffic going from A to B etc.

Run Information

Parameter	Values
Run Title	B2132 Bilsham Road - Graham Road
Location	Yapton
Date	29 June 2016
Enumerator	tmoloney [W3559-ODYSSEY]
Job Number	14-111
Status	-
Client	Gleesons
Description	-

Errors and Warnings

Parameter	Values
Warning	No Errors Or Warnings

Geometric Data

Geometric Parameters

Parameter	Minor Arm B
Major Road Carriageway Width (m)	6.50

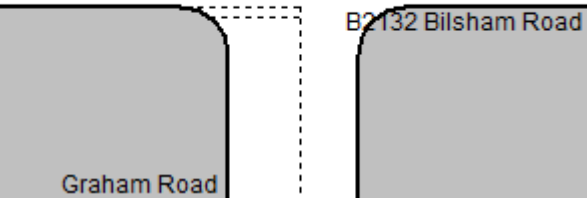
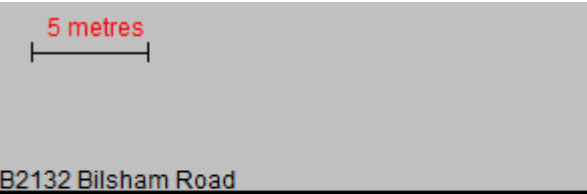
Major Road Kerbed Central Reserve Width (m)	0.00
Major Road Right Turning Lane Width (m)	2.20
Minor Road First Lane Width (m)	3.00
Minor Road Visibility To Right (m)	150
Minor Road Visibility To Left (m)	15
Major Road Right Turn Visibility (m)	200
Major Road Right Turn Blocks Traffic	Yes (if over 1 veh)

Slope and Intercept Values

Stream	Intercept for Stream	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	555.614	0.099	0.250	0.157	0.357
B-C	718.366	0.108	0.272	-	-
C-B	689.785	0.261	0.261	-	-

Note: Streams may be combined in which case capacity will be adjusted
 These values do not allow for any site-specific corrections

Junction Diagram



Demand Data

Modelling Periods

Parameter	Period	Duration (min)	Segment Length (min)
First Modelling Period	07:30-09:00	90	15
Second Modelling Period	16:30-18:00	90	15

ODTAB Turning Counts

Demand Set: 2022 AM Base + Dev
Modelling Period: 07:30-09:00

From/To	Arm A	Arm B	Arm C
Arm A	0.0	3.0	199.0
Arm B	7.0	0.0	2.0
Arm C	631.0	3.0	0.0

Demand Set: 2022 PM Base + Dev
Modelling Period: 16:30-18:00

From/To	Arm A	Arm B	Arm C
Arm A	0.0	4.0	458.0
Arm B	1.0	0.0	1.0

Arm C	308.0	0.0	0.0
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Demand Set: 2031 AM Base + Dev
Modelling Period: 07:30-09:00

From/To	Arm A	Arm B	Arm C
Arm A	0.0	4.0	210.0
Arm B	7.0	0.0	2.0
Arm C	674.0	4.0	0.0

Demand Set: 2031 PM Base + Dev
Modelling Period: 16:30-18:00

From/To	Arm A	Arm B	Arm C
Arm A	0.0	5.0	476.0
Arm B	1.0	0.0	1.0
Arm C	327.0	0.0	0.0

ODTAB Synthesised Flows

Demand Set: 2022 AM Base + Dev
Modelling Period: 07:30-09:00

Arm	Rising Time	Rising Flow (veh/min)	Peak Time	Peak Flow (veh/min)	Falling Time	Falling Flow (veh/min)
Arm A	07:45	2.525	08:15	3.788	08:45	2.525
Arm B	07:45	0.112	08:15	0.169	08:45	0.112
Arm C	07:45	7.925	08:15	11.888	08:45	7.925

Heavy Vehicles Percentages

Demand Set: 2022 AM Base + Dev
Modelling Period: 07:30-09:00

From/To	Arm A	Arm B	Arm C
Arm A	-	67.0	20.0
Arm B	17.0	-	50.0
Arm C	9.0	33.0	-

Demand Set: 2022 PM Base + Dev
Modelling Period: 16:30-18:00

From/To	Arm A	Arm B	Arm C
Arm A	-	0.0	3.0
Arm B	0.0	-	0.0
Arm C	3.0	0.0	-

Demand Set: 2031 AM Base + Dev
Modelling Period: 07:30-09:00

From/To	Arm A	Arm B	Arm C
Arm A	-	67.0	20.0
Arm B	17.0	-	50.0
Arm C	9.0	33.0	-

Demand Set: 2031 PM Base + Dev
Modelling Period: 16:30-18:00

From/To	Arm A	Arm B	Arm C
Arm A	-	0.0	0.0
Arm B	0.0	-	0.0
Arm C	0.0	0.0	-

Queues & Delays

Demand Set: 2022 AM Base + Dev
Modelling Period: 07:30-09:00

Segment	Stream	Demand	Capacity	RFC	Ped.	Start	End	Geometric	Delay	Mean
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		(veh/min)	(veh/min)		Flow (ped/min)	Queue (veh)	Queue (veh)	Delay (veh.min/ segment)	(veh.min/ segment)	Arriving Vehicle Delay (min)
07:30- 07:45	B-AC	0.11	6.35	0.018	-	0.00	0.02	-	0.3	0.16
	C-AB	0.04	8.04	0.005	-	0.00	0.00	-	0.1	0.12
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.04	-	-	-	-	-	-	-	-
	A-C	2.50	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
07:45- 08:00	B-AC	0.13	6.03	0.022	-	0.02	0.02	-	0.3	0.17
	C-AB	0.04	7.93	0.006	-	0.00	0.01	-	0.1	0.13
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.04	-	-	-	-	-	-	-	-
	A-C	2.98	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
08:00- 08:15	B-AC	0.17	5.58	0.030	-	0.02	0.03	-	0.4	0.18
	C-AB	0.06	7.76	0.007	-	0.01	0.01	-	0.1	0.13
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.06	-	-	-	-	-	-	-	-
	A-C	3.65	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
08:15- 08:30	B-AC	0.17	5.58	0.030	-	0.03	0.03	-	0.5	0.18
	C-AB	0.06	7.76	0.007	-	0.01	0.01	-	0.1	0.13
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.06	-	-	-	-	-	-	-	-
	A-C	3.65	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
08:30- 08:45	B-AC	0.13	6.03	0.022	-	0.03	0.02	-	0.4	0.17
	C-AB	0.04	7.93	0.006	-	0.01	0.01	-	0.1	0.13
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.04	-	-	-	-	-	-	-	-
	A-C	2.98	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
08:45- 09:00	B-AC	0.11	6.35	0.018	-	0.02	0.02	-	0.3	0.16
	C-AB	0.04	8.04	0.005	-	0.01	0.00	-	0.1	0.13
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.04	-	-	-	-	-	-	-	-
	A-C	2.50	-	-	-	-	-	-	-	-

Demand Set: 2022 PM Base + Dev
Modelling Period: 16:30-18:00

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
16:30-16:45	B-AC	0.03	8.46	0.003	-	0.00	0.00	-	0.0	0.12
	C-AB	0.00	9.03	0.000	-	0.00	0.00	-	0.0	0.00
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.05	-	-	-	-	-	-	-	-
	A-C	5.75	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
16:45-17:00	B-AC	0.03	8.06	0.004	-	0.00	0.00	-	0.1	0.12
	C-AB	0.00	8.76	0.000	-	0.00	0.00	-	0.0	0.00
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.06	-	-	-	-	-	-	-	-
	A-C	6.86	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
17:00-17:15	B-AC	0.04	7.51	0.005	-	0.00	0.00	-	0.1	0.13
	C-AB	0.00	8.38	0.000	-	0.00	0.00	-	0.0	0.00
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.07	-	-	-	-	-	-	-	-
	A-C	8.40	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
17:15-17:30	B-AC	0.04	7.51	0.005	-	0.00	0.00	-	0.1	0.13
	C-AB	0.00	8.38	0.000	-	0.00	0.00	-	0.0	0.00
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.07	-	-	-	-	-	-	-	-
	A-C	8.40	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
17:30-17:45	B-AC	0.03	8.06	0.004	-	0.00	0.00	-	0.1	0.12
	C-AB	0.00	8.76	0.000	-	0.00	0.00	-	0.0	0.00
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.06	-	-	-	-	-	-	-	-
	A-C	6.86	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
17:45-18:00	B-AC	0.03	8.46	0.003	-	0.00	0.00	-	0.0	0.12
	C-AB	0.00	9.03	0.000	-	0.00	0.00	-	0.0	0.00
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.05	-	-	-	-	-	-	-	-

	A-C	5.75	-	-	-	-	-	-	-	-
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Demand Set: 2031 AM Base + Dev
Modelling Period: 07:30-09:00

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
07:30-07:45	B-AC	0.11	6.24	0.018	-	0.00	0.02	-	0.3	0.16
	C-AB	0.05	8.01	0.006	-	0.00	0.01	-	0.1	0.13
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.05	-	-	-	-	-	-	-	-
	A-C	2.63	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
07:45-08:00	B-AC	0.13	5.90	0.023	-	0.02	0.02	-	0.3	0.17
	C-AB	0.06	7.88	0.008	-	0.01	0.01	-	0.1	0.13
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.06	-	-	-	-	-	-	-	-
	A-C	3.15	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
08:00-08:15	B-AC	0.17	5.42	0.030	-	0.02	0.03	-	0.5	0.19
	C-AB	0.07	7.71	0.010	-	0.01	0.01	-	0.1	0.13
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.07	-	-	-	-	-	-	-	-
	A-C	3.85	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
08:15-08:30	B-AC	0.17	5.42	0.030	-	0.03	0.03	-	0.5	0.19
	C-AB	0.07	7.71	0.010	-	0.01	0.01	-	0.1	0.13
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.07	-	-	-	-	-	-	-	-
	A-C	3.85	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
08:30-08:45	B-AC	0.13	5.90	0.023	-	0.03	0.02	-	0.4	0.17
	C-AB	0.06	7.88	0.008	-	0.01	0.01	-	0.1	0.13
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.06	-	-	-	-	-	-	-	-
	A-C	3.15	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
08:45-09:00	B-AC	0.11	6.24	0.018	-	0.02	0.02	-	0.3	0.16
	C-AB	0.05	8.01	0.006	-	0.01	0.01	-	0.1	0.13

	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.05	-	-	-	-	-	-	-	-
	A-C	2.63	-	-	-	-	-	-	-	-

Demand Set: 2031 PM Base + Dev

Modelling Period: 16:30-18:00

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
16:30- 16:45	B-AC	0.03	8.43	0.003	-	0.00	0.00	-	0.0	0.12
	C-AB	0.00	9.02	0.000	-	0.00	0.00	-	0.0	0.00
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.06	-	-	-	-	-	-	-	-
	A-C	5.97	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
16:45- 17:00	B-AC	0.03	8.03	0.004	-	0.00	0.00	-	0.1	0.13
	C-AB	0.00	8.74	0.000	-	0.00	0.00	-	0.0	0.00
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.07	-	-	-	-	-	-	-	-
	A-C	7.13	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
17:00- 17:15	B-AC	0.04	7.47	0.005	-	0.00	0.00	-	0.1	0.13
	C-AB	0.00	8.35	0.000	-	0.00	0.00	-	0.0	0.00
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.09	-	-	-	-	-	-	-	-
	A-C	8.73	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
17:15- 17:30	B-AC	0.04	7.47	0.005	-	0.00	0.00	-	0.1	0.13
	C-AB	0.00	8.35	0.000	-	0.00	0.00	-	0.0	0.00
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.09	-	-	-	-	-	-	-	-
	A-C	8.73	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)
17:30- 17:45	B-AC	0.03	8.03	0.004	-	0.00	0.00	-	0.1	0.13
	C-AB	0.00	8.74	0.000	-	0.00	0.00	-	0.0	0.00
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.07	-	-	-	-	-	-	-	-
	A-C	7.13	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/ segment)	Delay (veh.min/ segment)	Mean Arriving Vehicle Delay (min)

17:45-18:00	B-AC	0.03	8.43	0.003	-	0.00	0.00	-	0.0	0.12
	C-AB	0.00	9.02	0.000	-	0.00	0.00	-	0.0	0.00
	C-A	-	-	-	-	-	-	-	-	-
	A-B	0.06	-	-	-	-	-	-	-	-
	A-C	5.97	-	-	-	-	-	-	-	-

Entry capacities marked with an '(X)' are dominated by a pedestrian crossing in that time segment.

In time segments marked with a '(B)', traffic leaving the junction may block back from a crossing so impairing normal operation of the junction.

Delays marked with '##' could not be calculated.

PICADY 5 Run Successful