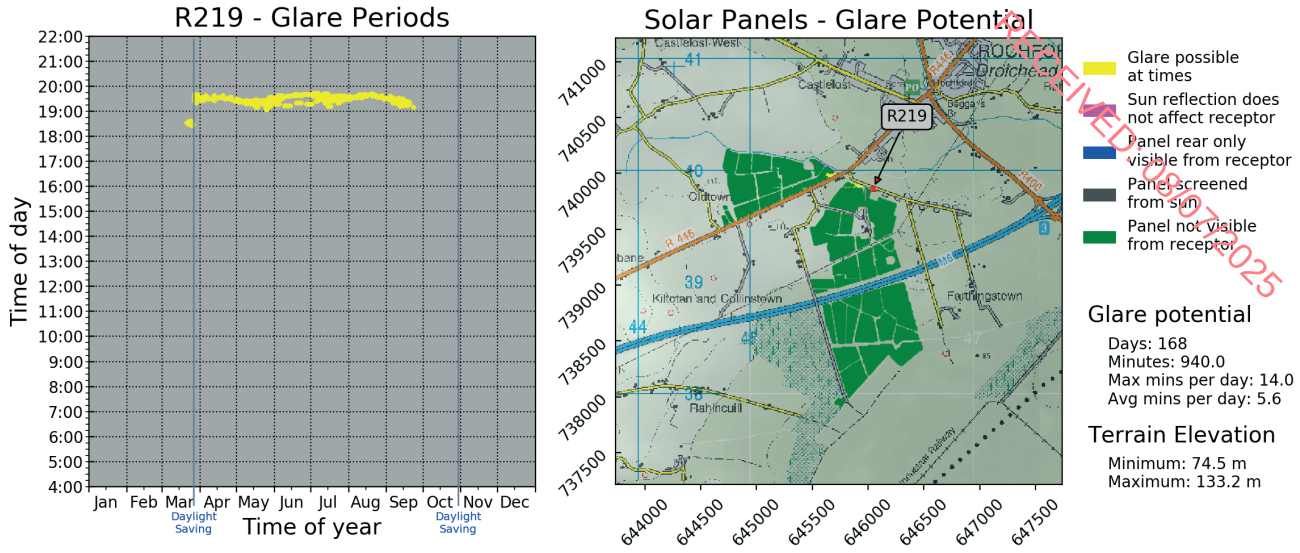
Appendix D - Glare Periods - Roads Receptors

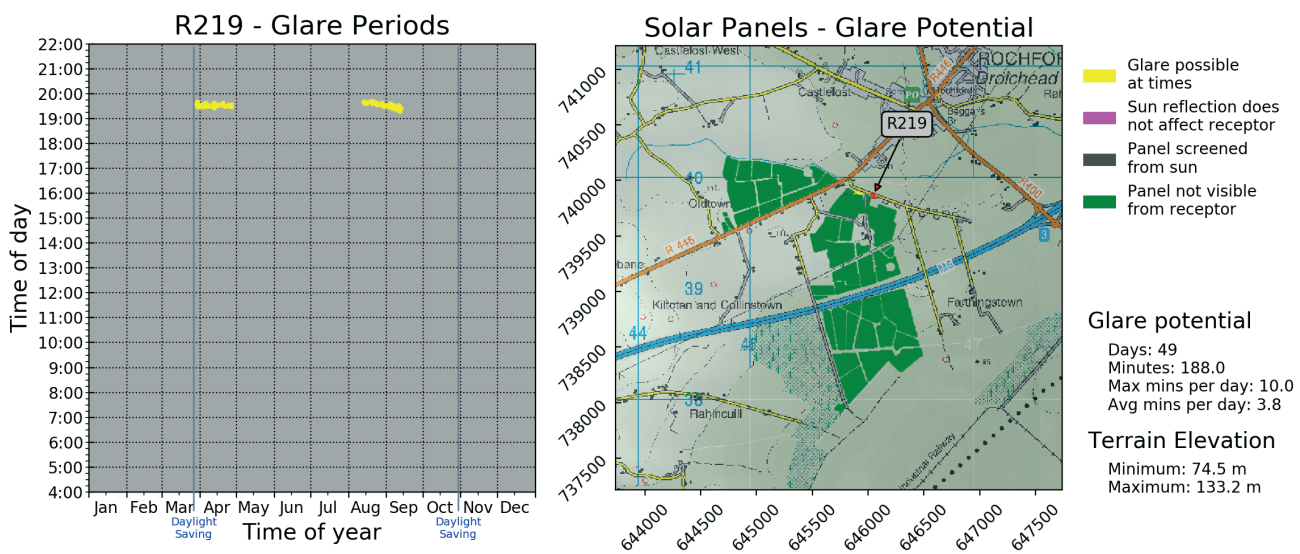
Only includes receptors with potential for glare after existing screening has been accounted for.
Glare periods where the glaring panels are within 10 degrees of the shining sun have been included.

Theoretical Glare: No Screening

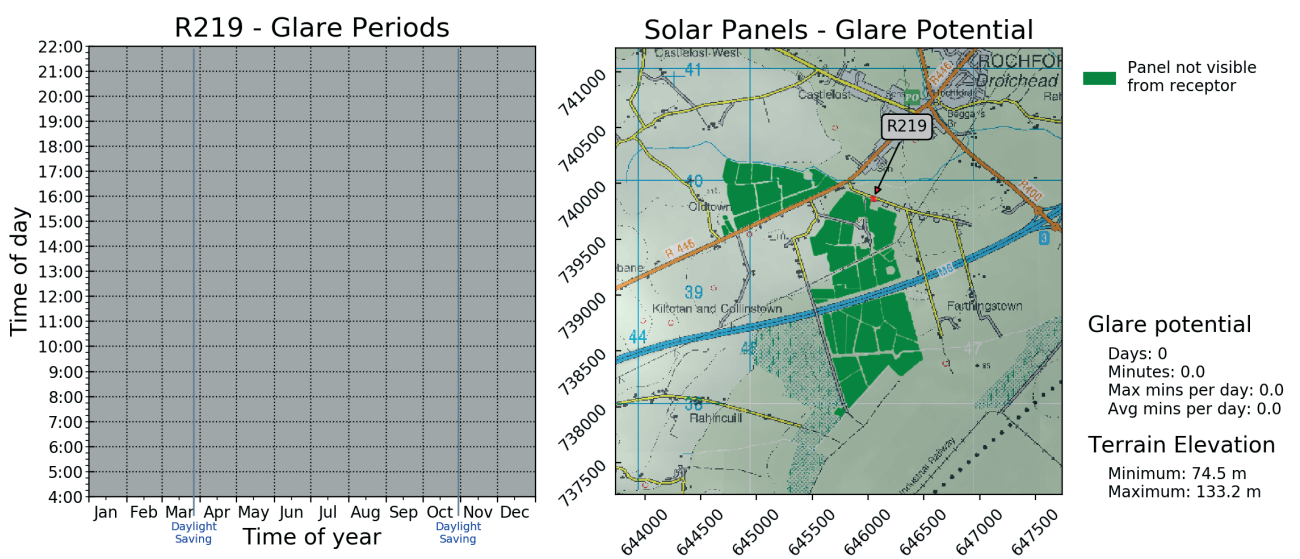


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Actual Glare: Existing Screening Only



Actual Glare: Existing Screening + Added Mitigation Screening

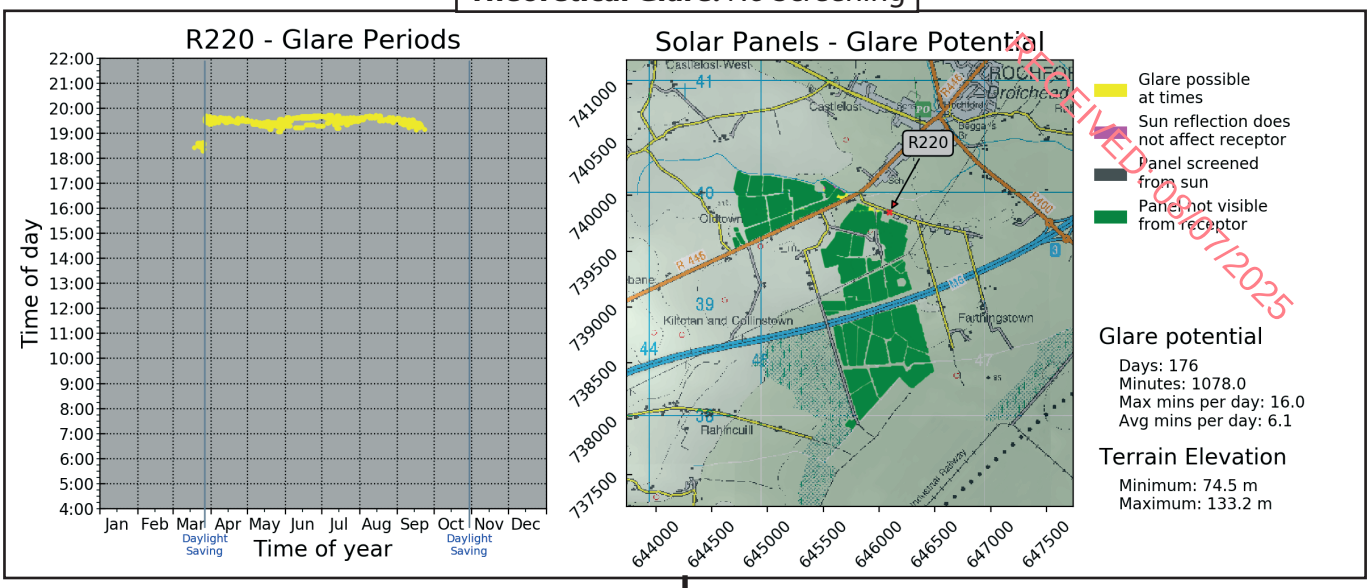


Note: the use of 'a' and 'b' in a receptor name indicates the lower and upper floor respectively of a 2-storey dwelling

Appendix D - Glare Periods - Roads Receptors

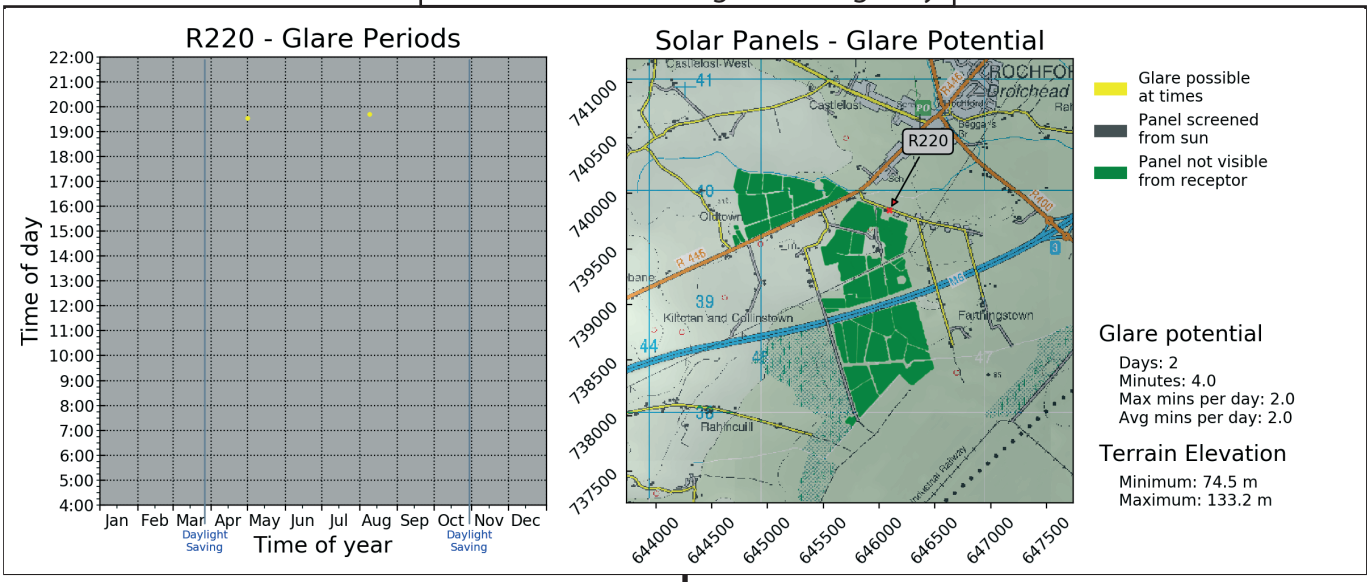
Only includes receptors with potential for glare after existing screening has been accounted for.
Glare periods where the glaring panels are within 10 degrees of the shining sun have been included.

Theoretical Glare: No Screening

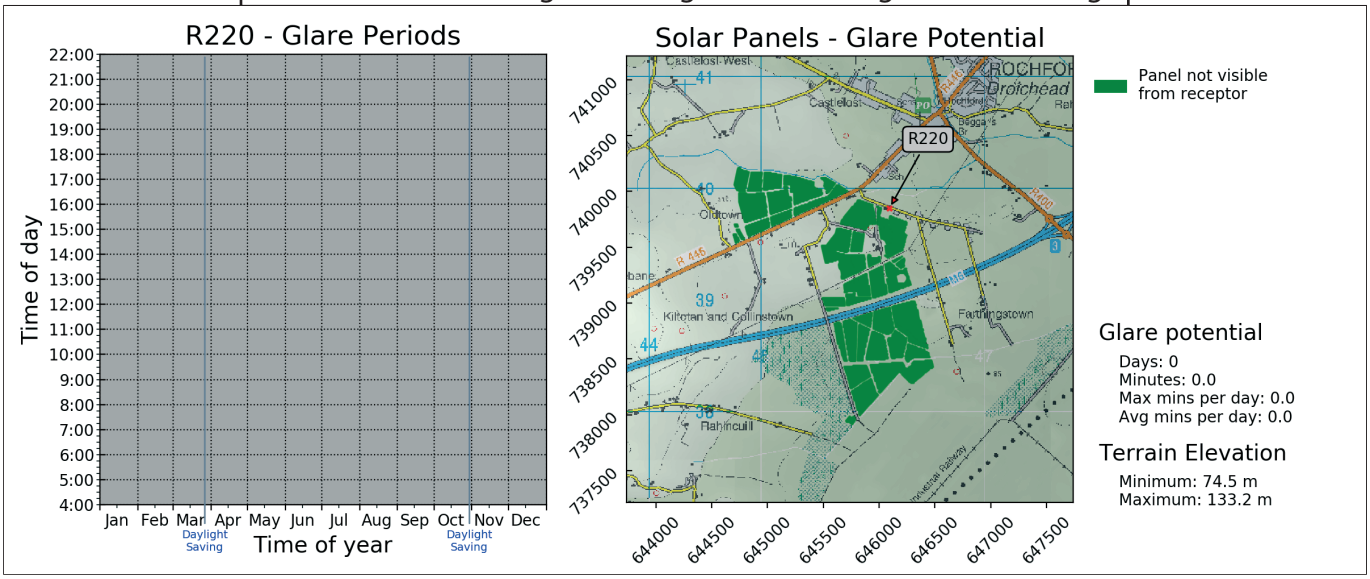


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Actual Glare: Existing Screening Only



Actual Glare: Existing Screening + Added Mitigation Screening

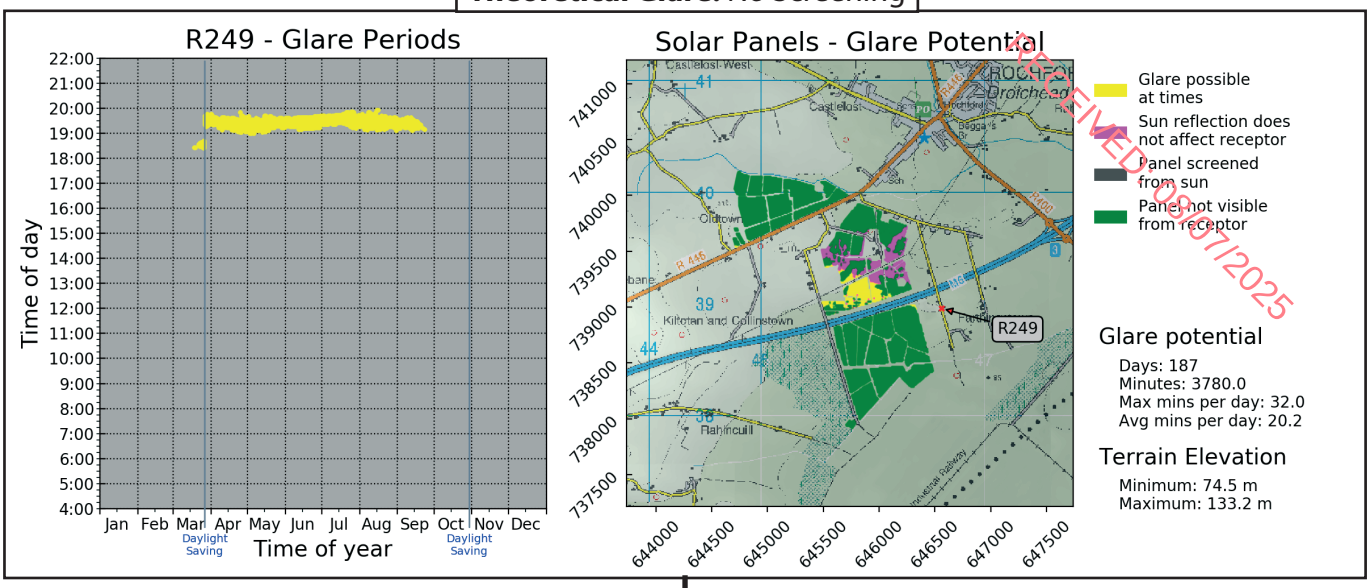


Note: the use of 'a' and 'b' in a receptor name indicates the lower and upper floor respectively of a 2-storey dwelling

Appendix D - Glare Periods - Roads Receptors

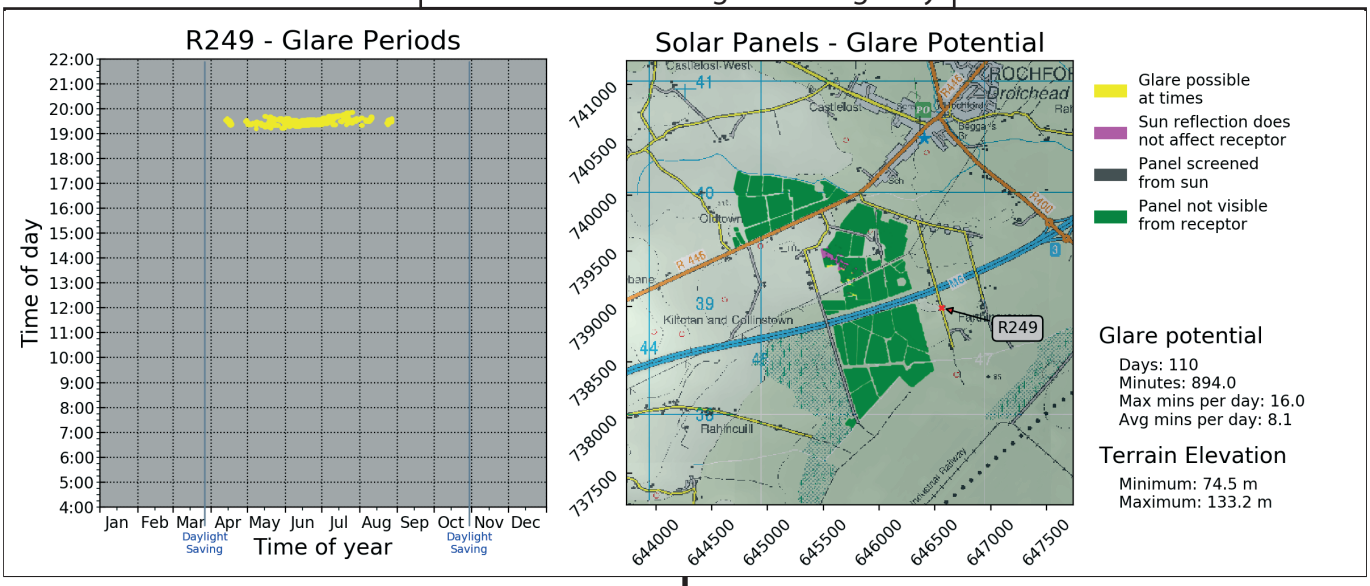
Only includes receptors with potential for glare after existing screening has been accounted for.
Glare periods where the glaring panels are within 10 degrees of the shining sun have been included.

Theoretical Glare: No Screening

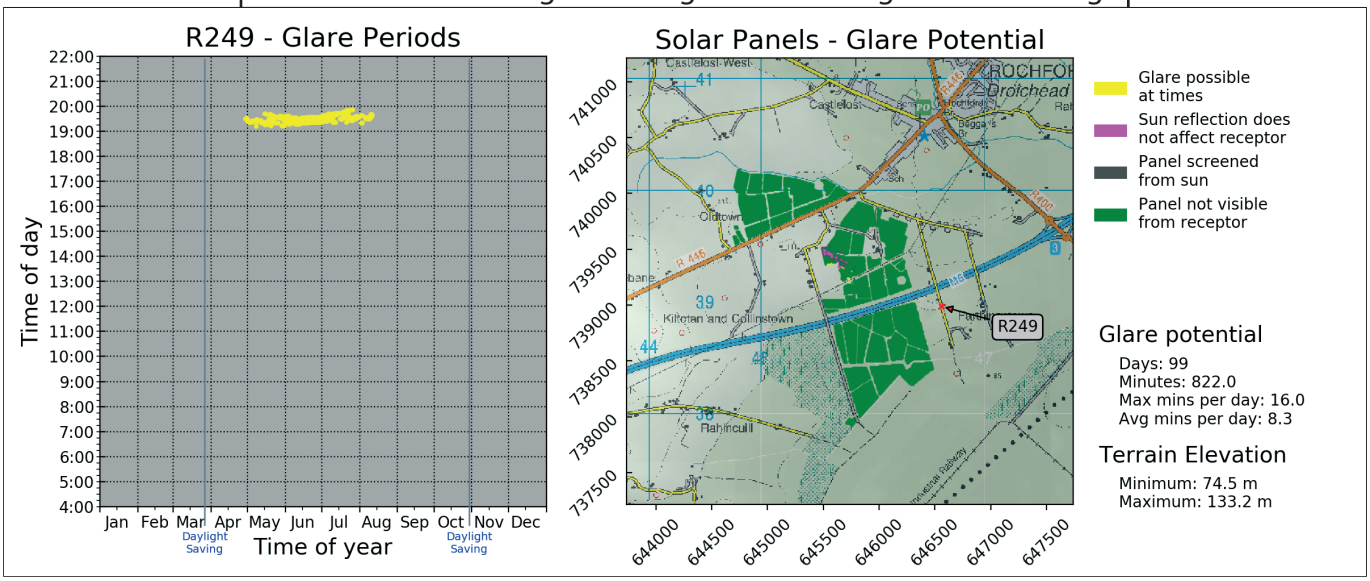


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Actual Glare: Existing Screening Only



Actual Glare: Existing Screening + Added Mitigation Screening

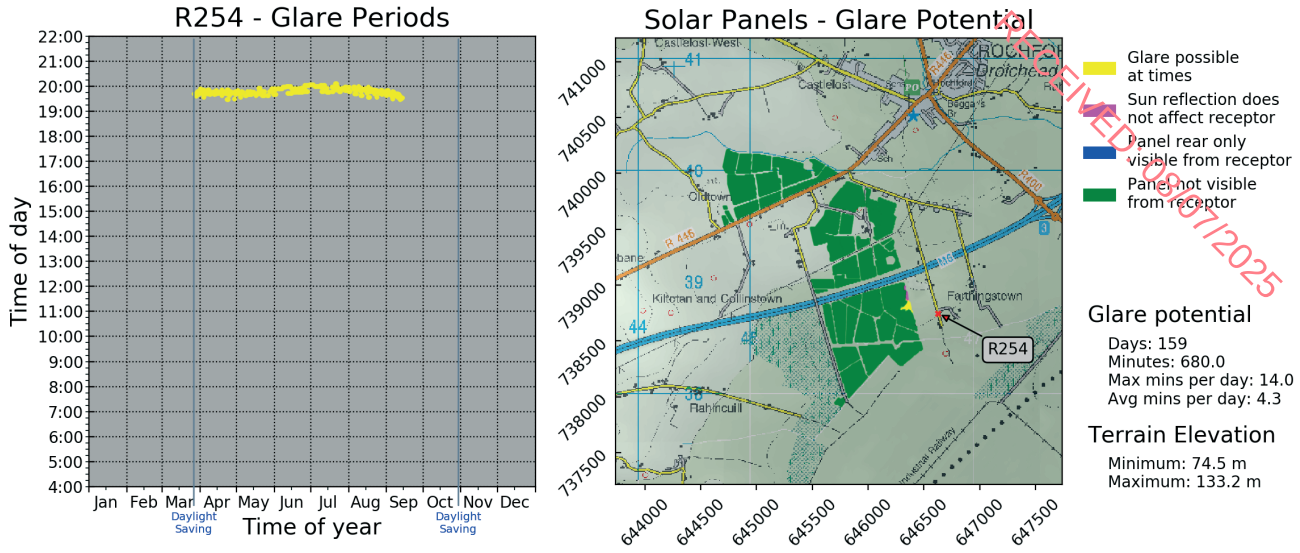


Note: the use of 'a' and 'b' in a receptor name indicates the lower and upper floor respectively of a 2-storey dwelling

Appendix D - Glare Periods - Roads Receptors

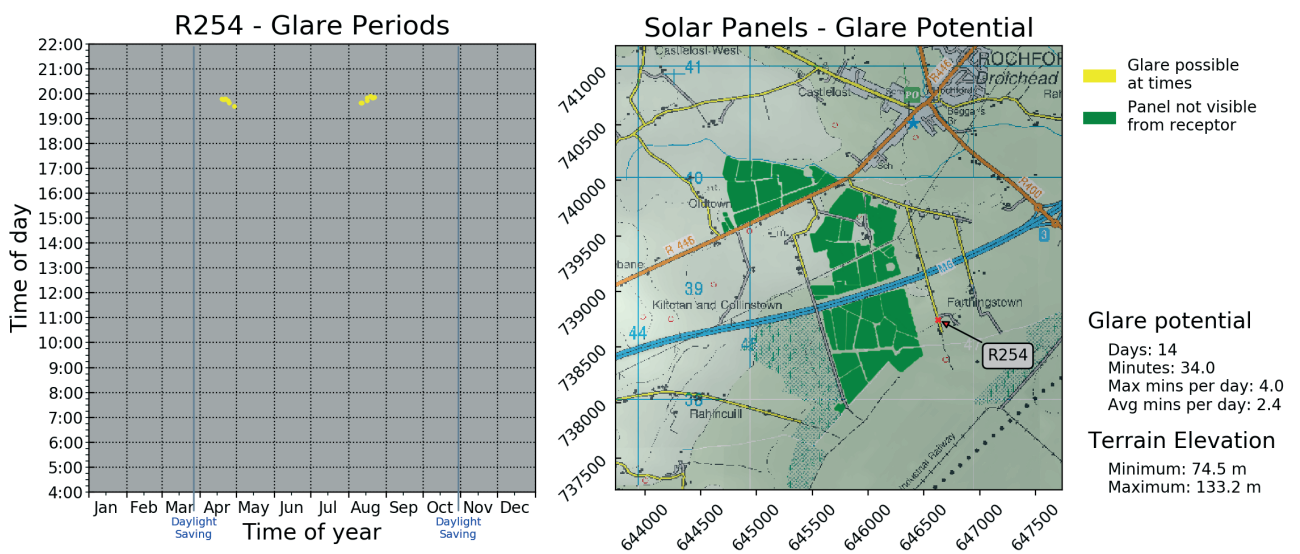
Only includes receptors with potential for glare after existing screening has been accounted for.
Glare periods where the glaring panels are within 10 degrees of the shining sun have been included.

Theoretical Glare: No Screening

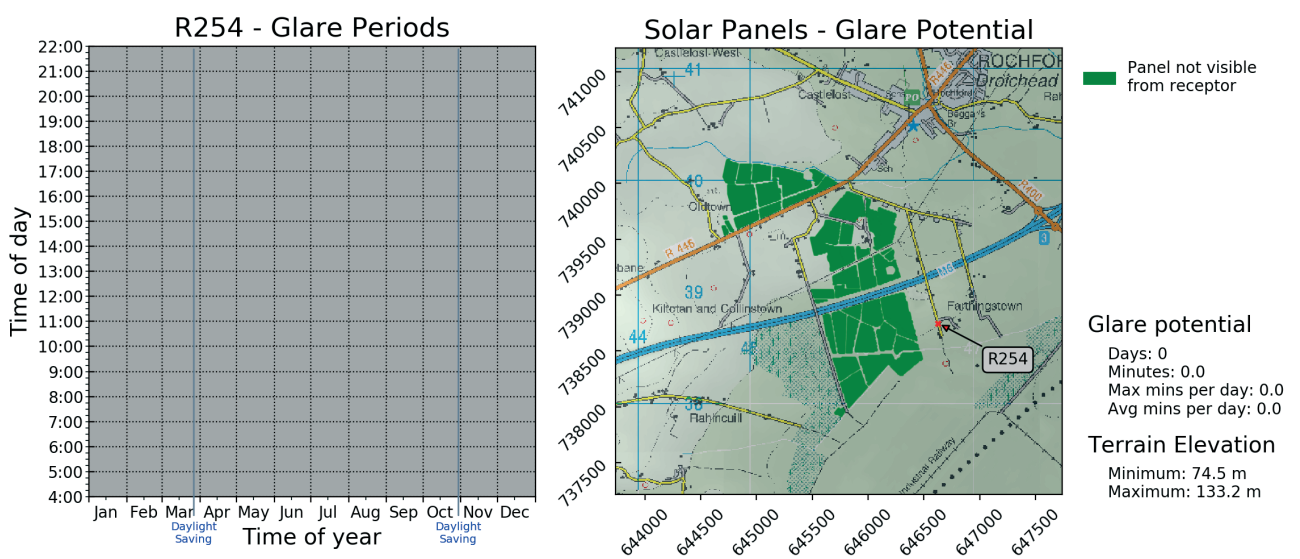


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Actual Glare: Existing Screening Only



Actual Glare: Existing Screening + Added Mitigation Screening

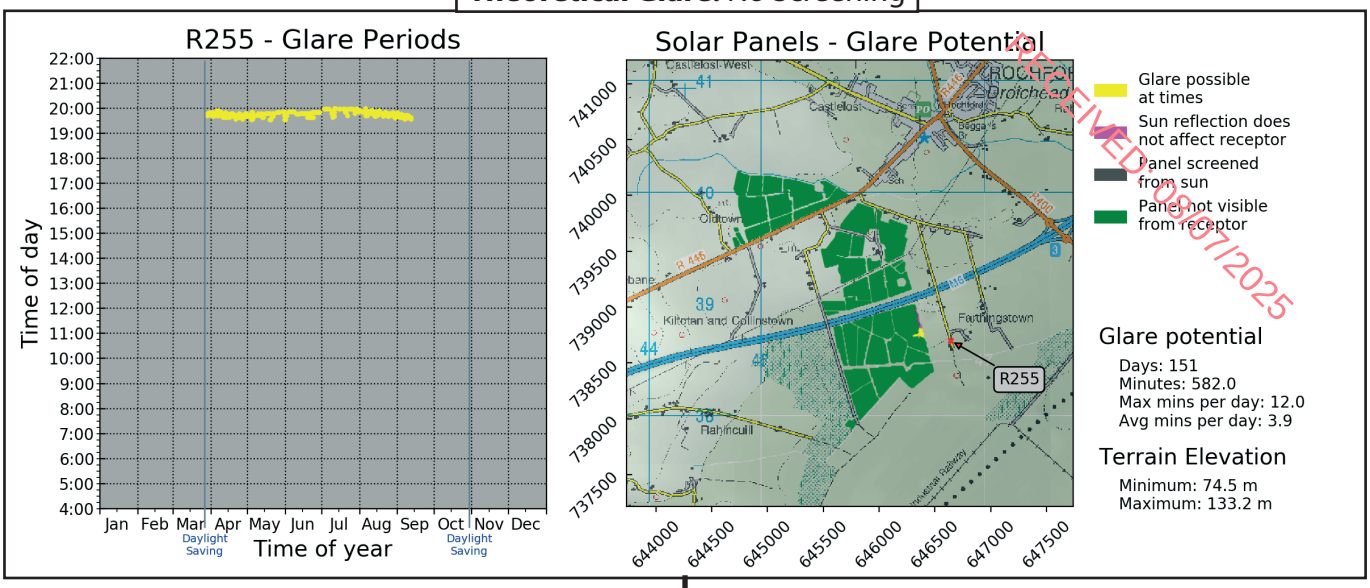


Note: the use of 'a' and 'b' in a receptor name indicates the lower and upper floor respectively of a 2-storey dwelling

Appendix D - Glare Periods - Roads Receptors

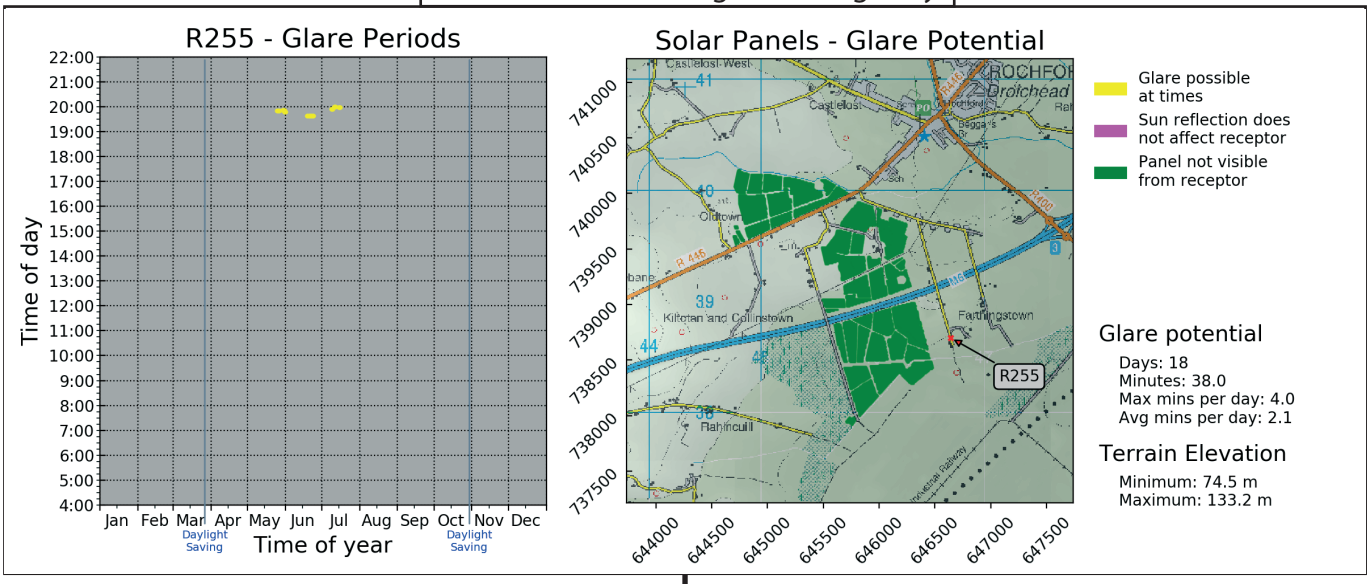
Only includes receptors with potential for glare after existing screening has been accounted for.
Glare periods where the glaring panels are within 10 degrees of the shining sun have been included.

Theoretical Glare: No Screening

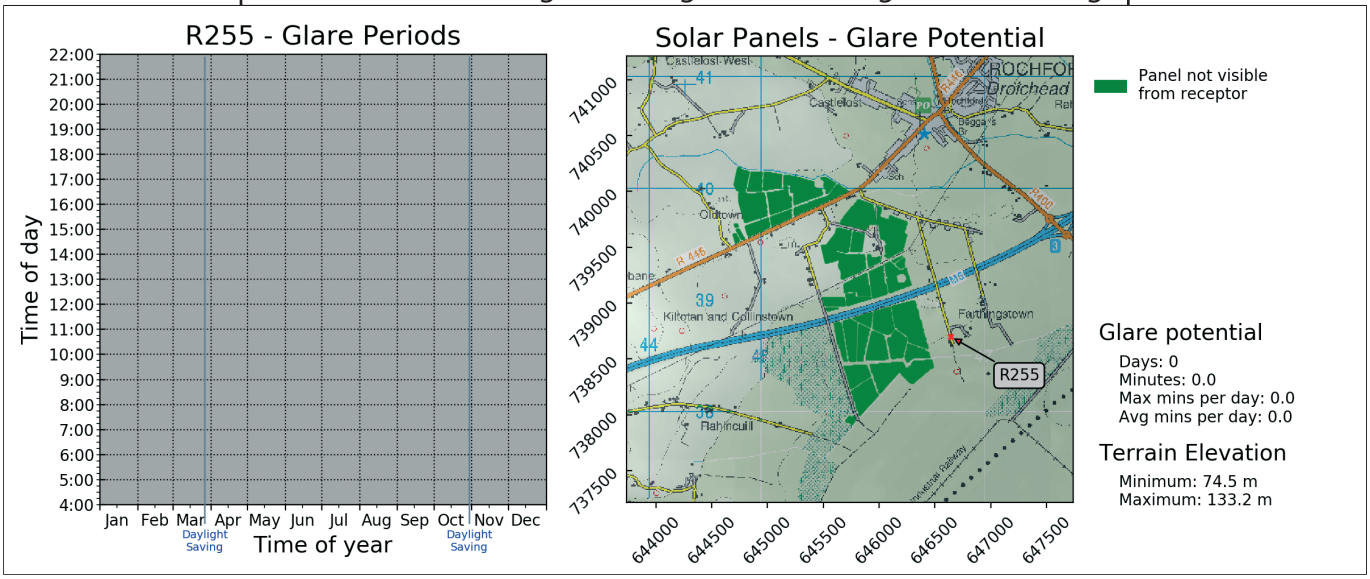


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Actual Glare: Existing Screening Only



Actual Glare: Existing Screening + Added Mitigation Screening



Note: the use of 'a' and 'b' in a receptor name indicates the lower and upper floor respectively of a 2-storey dwelling

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APPENDIX 13.1

Traffic Calculations – Summary
Existing N52/R446 (4-arm) roundabout junction

Arm A = R446 to/from West (Tyrrellspass)
Arm B = N52 to/from North (Mullingar)
Arm C = R446 to/from East (Rochfortbridge)
Arm D = N52 to/from South (M6)

Scenario	A-A	A-B	A-C	A-D	B-A	B-B	B-C	B-D	C-A	C-B	C-C	C-D	D-A	D-B	D-C	D-D
2025 AM Peak Hour (08:15 – 09:14)	1	145	113	79	50	1	22	439	96	20	0	38	69	331	15	5
AM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	-9	0	0	0	-2	0	-1	0	0	0	0	0	-1	0
AM Peak Castlelost Flexgen Operational Traffic	0	0	10	0	0	0	2	0	0	0	0	0	0	0	1	0
2025 AM Peak Hour With Castlelost Flexgen Operational	1	145	114	79	50	1	22	439	94	20	0	38	69	331	15	5
2029 AM Peak Hour (Factor = 1.070) Without Development	**1**	**155**	**122**	**85**	**53**	**1**	**24**	**470**	**101**	**21**	**0**	**40**	**74**	**354**	**16**	**5**
2029 AM Peak Hour Construction HGV Trips	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	0
2029 AM Peak Hour Construction Employee Main Site Trips	0	0	42	0	0	0	8	0	5	1	0	2	0	0	6	0
2029 AM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2029 AM Peak Hour With Construction Trips	**1**	**155**	**164**	**85**	**53**	**1**	**32**	**470**	**105**	**22**	**0**	**49**	**74**	**354**	**29**	**5**
2033 AM Peak Hour (Factor = 1.099) Without Development	**1**	**159**	**125**	**87**	**55**	**1**	**24**	**483**	**104**	**22**	**0**	**41**	**76**	**363**	**17**	**5**
2038 AM Peak Hour (Factor = 1.137) Without Development	**1**	**165**	**130**	**90**	**57**	**1**	**25**	**500**	**107**	**22**	**0**	**43**	**79**	**376**	**17**	**6**
2048 AM Peak Hour (Factor = 1.210) Without Development	**1**	**175**	**138**	**96**	**60**	**1**	**27**	**532**	**114**	**24**	**0**	**45**	**84**	**400**	**18**	**6**
2033-2048 AM Peak Hour Operational Trips	0	0	32	0	0	0	6	0	2	0	0	1	0	0	4	0
2033 AM Peak Hour With Development Operational	**1**	**159**	**157**	**87**	**55**	**1**	**31**	**483**	**105**	**22**	**0**	**42**	**76**	**363**	**21**	**5**
2038 AM Peak Hour With Development Operational	**1**	**165**	**162**	**90**	**57**	**1**	**32**	**500**	**109**	**23**	**0**	**43**	**79**	**376**	**21**	**6**
2048 AM Peak Hour With Development Operational	**1**	**175**	**170**	**96**	**60**	**1**	**33**	**532**	**116**	**24**	**0**	**46**	**84**	**400**	**23**	**6**
2025 PM Peak Hour (17:00 – 17:59)	0	96	114	74	63	1	30	400	78	19	1	41	85	355	14	1
PM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	0	0	0	0	0	0	-18	-4	0	-9	0	0	0	0
PM Peak Castlelost Flexgen Operational Traffic	0	0	0	0	0	0	0	0	7	2	0	4	0	0	0	0
2025 PM Peak Hour With Castlelost Flexgen Operational	0	96	114	74	63	1	30	400	67	16	1	35	85	355	14	1
2029 PM Peak Hour (Factor = 1.070) Without Development	**0**	**102**	**122**	**80**	**67**	**1**	**32**	**428**	**72**	**17**	**1**	**37**	**91**	**379**	**15**	**1**
2029 PM Peak Hour Construction HGV Trips	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	0
2029 PM Peak Hour Construction Employee Main Site Trips	0	0	0	0	0	0	0	0	74	18	0	38	0	0	0	0
2029 PM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2029 PM Peak Hour With Construction Trips	**0**	**102**	**122**	**80**	**67**	**1**	**32**	**428**	**146**	**35**	**1**	**83**	**91**	**379**	**22**	**1**
2033 PM Peak Hour (Factor = 1.099) Without Development	**0**	**105**	**125**	**82**	**69**	**1**	**33**	**440**	**74**	**18**	**1**	**38**	**93**	**390**	**15**	**1**
2038 PM Peak Hour (Factor = 1.137) Without Development	**0**	**109**	**130**	**84**	**71**	**1**	**34**	**455**	**76**	**19**	**1**	**40**	**96**	**403**	**16**	**1**
2048 PM Peak Hour (Factor = 1.210) Without Development	**0**	**116**	**138**	**90**	**76**	**1**	**36**	**484**	**81**	**20**	**1**	**42**	**102**	**429**	**17**	**1**
2033-2048 PM Peak Hour Operational Trips	0	0	1	0	0	0	0	0	23	6	0	12	0	0	0	0
2033 PM Peak Hour With Development Operational	**0**	**105**	**126**	**82**	**69**	**1**	**33**	**440**	**97**	**24**	**1**	**50**	**93**	**390**	**16**	**1**
2038 PM Peak Hour With Development Operational	**0**	**109**	**131**	**84**	**71**	**1**	**34**	**455**	**100**	**24**	**1**	**52**	**96**	**403**	**16**	**1**
2048 PM Peak Hour With Development Operational	**0**	**116**	**139**	**90**	**76**	**1**	**37**	**484**	**105**	**25**	**1**	**54**	**102**	**429**	**17**	**1**

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Traffic Calculations – Summary
Existing R446/L5125 (3-arm) junction

Arm A = R446 to/from West (Tyrrellspass)
Arm B = L5125 local road
Arm C = R446 to/from East (Rochfortbridge)

Scenario	A-B	A-C	B-A	B-C	C-A	C-B
2025 AM Peak Hour (08:15 – 09:14)	2	127	3	3	90	0
AM Peak Subtraction of Castlelost Flexgen Development Traffic	0	-12	0	0	-2	0
AM Peak Castlelost Flexgen Operational Traffic	0	13	0	0	0	0
2025 AM Peak Hour With Castlelost Flexgen Operational	2	129	3	3	88	0
2029 AM Peak Hour (Factor = 1.070) Without Development	**2**	**138**	**3**	**4**	**94**	**0**
2029 AM Peak Hour Construction HGV Trips	0	7	0	0	7	0
2029 AM Peak Hour Construction Employee Main Site Trips	0	56	0	1	7	0
2029 AM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	0	0
2029 AM Peak Hour With Construction Trips	**2**	**200**	**3**	**5**	**108**	**0**
2033 AM Peak Hour (Factor = 1.099) Without Development	**2**	**141**	**3**	**4**	**97**	**0**
2038 AM Peak Hour (Factor = 1.137) Without Development	**2**	**146**	**3**	**4**	**100**	**0**
2048 AM Peak Hour (Factor = 1.210) Without Development	**2**	**156**	**4**	**4**	**106**	**0**
2033-2048 AM Peak Hour Operational Trips	0	43	0	1	3	0
2033 AM Peak Hour With Development Operational	**2**	**184**	**3**	**5**	**99**	**0**
2038 AM Peak Hour With Development Operational	**2**	**189**	**3**	**5**	**103**	**0**
2048 AM Peak Hour With Development Operational	**2**	**198**	**4**	**5**	**109**	**0**
2025 PM Peak Hour (17:00 – 17:59)	1	109	1	1	143	4
PM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	0	0	-32	-1
PM Peak Castlelost Flexgen Operational Traffic	0	0	0	0	12	0
2025 PM Peak Hour With Castlelost Flexgen Operational	1	109	1	1	123	3
2029 PM Peak Hour (Factor = 1.070) Without Development	**1**	**117**	**1**	**1**	**131**	**4**
2029 PM Peak Hour Construction HGV Trips	0	7	0	0	7	0
2029 PM Peak Hour Construction Employee Main Site Trips	0	0	0	0	131	4
2029 PM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	0	0
2029 PM Peak Hour With Construction Trips	**1**	**124**	**1**	**1**	**270**	**7**
2033 PM Peak Hour (Factor = 1.099) Without Development	**1**	**120**	**1**	**1**	**135**	**4**
2038 PM Peak Hour (Factor = 1.137) Without Development	**1**	**124**	**1**	**1**	**140**	**4**
2048 PM Peak Hour (Factor = 1.210) Without Development	**1**	**132**	**1**	**1**	**149**	**4**
2033-2048 PM Peak Hour Operational Trips	0	1	0	0	41	1
2033 PM Peak Hour With Development Operational	**1**	**121**	**1**	**1**	**176**	**5**
2038 PM Peak Hour With Development Operational	**1**	**126**	**1**	**1**	**181**	**5**
2048 PM Peak Hour With Development Operational	**1**	**134**	**1**	**1**	**190**	**5**

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Traffic Calculations – Summary
Existing R446/Castlelost Development Site (3-arm) junction

Arm A = R446 to/from East (Rochfortbridge)
Arm B = Castlelost Development Site
Arm C = R446 to/from West (Tyrrellspass)

Scenario	A-B	A-C	B-A	B-C	C-A	C-B
2025 AM Peak Hour (08:15 – 09:14)	8	86	3	4	114	17
AM Peak Subtraction of Castlelost Flexgen Development Traffic	-8	0	-1	-2	0	-12
AM Peak Castlelost Flexgen Operational Traffic	7	0	0	0	0	13
2025 AM Peak Hour With Castlelost Flexgen Operational	7	86	2	2	114	18
2029 AM Peak Hour (Factor = 1.070) Without Development	**7**	**92**	**2**	**2**	**122**	**19**
2029 AM Peak Hour Construction HGV Trips	0	0	0	7	0	7
2029 AM Peak Hour Construction Employee Main Site Trips	28	0	6	7	0	57
2029 AM Peak Hour Construction Employee Solar Site Trips	0	1	0	0	0	0
2029 AM Peak Hour With Construction Trips	**35**	**92**	**8**	**17**	**122**	**84**
2033 AM Peak Hour (Factor = 1.099) Without Development	**7**	**94**	**3**	**3**	**125**	**20**
2038 AM Peak Hour (Factor = 1.137) Without Development	**7**	**97**	**3**	**3**	**129**	**21**
2048 AM Peak Hour (Factor = 1.210) Without Development	**8**	**104**	**3**	**3**	**138**	**22**
2033-2048 AM Peak Hour Operational Trips	21	0	2	3	0	44
2033 AM Peak Hour With Development Operational	**28**	**94**	**5**	**5**	**125**	**64**
2038 AM Peak Hour With Development Operational	**29**	**97**	**5**	**5**	**129**	**64**
2048 AM Peak Hour With Development Operational	**29**	**104**	**5**	**6**	**138**	**66**
2025 PM Peak Hour (17:00 – 17:59)	0	114	19	33	110	0
PM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	-19	-33	0	0
PM Peak Castlelost Flexgen Operational Traffic	0	0	7	13	0	0
2025 PM Peak Hour With Castlelost Flexgen Operational	0	114	7	13	110	0
2029 PM Peak Hour (Factor = 1.070) Without Development	**0**	**121**	**8**	**14**	**118**	**0**
2029 PM Peak Hour Construction HGV Trips	0	0	0	7	0	7
2029 PM Peak Hour Construction Employee Main Site Trips	0	0	78	135	0	0
2029 PM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	0	0
2029 PM Peak Hour With Construction Trips	**0**	**121**	**86**	**156**	**118**	**7**
2033 PM Peak Hour (Factor = 1.099) Without Development	**0**	**125**	**8**	**14**	**121**	**0**
2038 PM Peak Hour (Factor = 1.137) Without Development	**0**	**129**	**8**	**14**	**125**	**0**
2048 PM Peak Hour (Factor = 1.210) Without Development	**0**	**137**	**9**	**15**	**133**	**0**
2033-2048 PM Peak Hour Operational Trips	1	0	24	43	0	1
2033 PM Peak Hour With Development Operational	**1**	**125**	**33**	**56**	**121**	**1**
2038 PM Peak Hour With Development Operational	**1**	**129**	**33**	**57**	**125**	**1**
2048 PM Peak Hour With Development Operational	**1**	**137**	**33**	**58**	**133**	**1**

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Traffic Calculations – Summary
Existing R446/L51251 (3-arm) junction

Arm A = R446 to/from East (Rochfortbridge)
Arm B = L51251 local road
Arm C = R446 to/from West (Tyrrellspass)

Scenario	A-B	A-C	B-A	B-C	C-A	C-B
2025 AM Peak Hour (08:15 – 09:14)	4	91	7	3	117	0
AM Peak Subtraction of Castlelost Flexgen Development Traffic	0	-8	0	0	-1	0
AM Peak Castlelost Flexgen Operational Traffic	0	6	0	0	0	0
2025 AM Peak Hour With Castlelost Flexgen Operational	4	89	7	3	116	0
2029 AM Peak Hour (Factor = 1.070) Without Development	**4**	**95**	**7**	**3**	**124**	**0**
2029 AM Peak Hour Construction HGV Trips	0	0	0	0	0	0
2029 AM Peak Hour Construction Employee Main Site Trips	0	27	0	1	6	0
2029 AM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	1	0
2029 AM Peak Hour With Construction Trips	**4**	**122**	**7**	**4**	**130**	**0**
2033 AM Peak Hour (Factor = 1.099) Without Development	**4**	**98**	**8**	**3**	**128**	**0**
2038 AM Peak Hour (Factor = 1.137) Without Development	**5**	**101**	**8**	**3**	**132**	**0**
2048 AM Peak Hour (Factor = 1.210) Without Development	**5**	**108**	**8**	**4**	**140**	**0**
2033-2048 AM Peak Hour Operational Trips	0	20	0	1	2	0
2033 AM Peak Hour With Development Operational	**4**	**118**	**8**	**4**	**130**	**0**
2038 AM Peak Hour With Development Operational	**5**	**122**	**8**	**4**	**134**	**0**
2048 AM Peak Hour With Development Operational	**5**	**128**	**8**	**4**	**143**	**0**
2025 PM Peak Hour (17:00 – 17:59)	10	113	8	1	126	3
PM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	0	0	-19	0
PM Peak Castlelost Flexgen Operational Traffic	0	0	0	0	7	0
2025 PM Peak Hour With Castlelost Flexgen Operational	10	113	8	1	115	3
2029 PM Peak Hour (Factor = 1.070) Without Development	**11**	**120**	**9**	**1**	**123**	**3**
2029 PM Peak Hour Construction HGV Trips	0	0	0	0	0	0
2029 PM Peak Hour Construction Employee Main Site Trips	0	0	0	0	76	2
2029 PM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	0	0
2029 PM Peak Hour With Construction Trips	**11**	**120**	**9**	**1**	**199**	**5**
2033 PM Peak Hour (Factor = 1.099) Without Development	**11**	**124**	**9**	**1**	**126**	**3**
2038 PM Peak Hour (Factor = 1.137) Without Development	**11**	**128**	**9**	**1**	**131**	**3**
2048 PM Peak Hour (Factor = 1.210) Without Development	**12**	**136**	**10**	**1**	**139**	**3**
2033-2048 PM Peak Hour Operational Trips	0	1	0	0	24	1
2033 PM Peak Hour With Development Operational	**11**	**124**	**9**	**1**	**150**	**4**
2038 PM Peak Hour With Development Operational	**11**	**129**	**9**	**1**	**155**	**4**
2048 PM Peak Hour With Development Operational	**12**	**137**	**10**	**1**	**163**	**4**

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Traffic Calculations – Summary
Existing R446-L11272 (3-arm) junction

Arm A = R446 to/from East (Rochfortbridge)
Arm B = L11272 local road
Arm C = R446 to/from West (Tyrrellspass)

Scenario	A-B	A-C	B-A	B-C	C-A	C-B
2025 AM Peak Hour (08:15 – 09:14)	9	89	15	6	123	1
AM Peak Subtraction of Castlelost Flexgen Development Traffic	0	-7	0	0	-1	0
AM Peak Castlelost Flexgen Operational Traffic	0	6	0	0	0	0
2025 AM Peak Hour With Castlelost Flexgen Operational	9	87	15	6	122	1
2029 AM Peak Hour (Factor = 1.070) Without Development	**10**	**93**	**16**	**6**	**131**	**1**
2029 AM Peak Hour Construction HGV Trips	0	0	0	0	0	0
2029 AM Peak Hour Construction Employee Main Site Trips	0	25	0	2	6	0
2029 AM Peak Hour Construction Employee Solar Site Trips	5	0	1	0	0	1
2029 AM Peak Hour With Construction Trips	**14**	**118**	**16**	**8**	**136**	**2**
2033 AM Peak Hour (Factor = 1.099) Without Development	**10**	**96**	**16**	**6**	**134**	**1**
2038 AM Peak Hour (Factor = 1.137) Without Development	**10**	**99**	**17**	**7**	**139**	**1**
2048 AM Peak Hour (Factor = 1.210) Without Development	**11**	**106**	**18**	**7**	**148**	**1**
2033-2048 AM Peak Hour Operational Trips	0	19	0	1	2	0
2033 AM Peak Hour With Development Operational	**10**	**115**	**16**	**8**	**136**	**1**
2038 AM Peak Hour With Development Operational	**10**	**118**	**17**	**8**	**141**	**1**
2048 AM Peak Hour With Development Operational	**11**	**125**	**18**	**8**	**150**	**1**
2025 PM Peak Hour (17:00 – 17:59)	9	123	8	0	129	6
PM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	0	0	-18	-1
PM Peak Castlelost Flexgen Operational Traffic	0	0	0	0	7	0
2025 PM Peak Hour With Castlelost Flexgen Operational	9	123	8	0	118	5
2029 PM Peak Hour (Factor = 1.070) Without Development	**10**	**131**	**9**	**0**	**126**	**6**
2029 PM Peak Hour Construction HGV Trips	0	0	0	0	0	0
2029 PM Peak Hour Construction Employee Main Site Trips	0	0	0	0	73	3
2029 PM Peak Hour Construction Employee Solar Site Trips	0	0	1	0	0	0
2029 PM Peak Hour With Construction Trips	**10**	**131**	**10**	**0**	**199**	**9**
2033 PM Peak Hour (Factor = 1.099) Without Development	**10**	**135**	**9**	**0**	**129**	**6**
2038 PM Peak Hour (Factor = 1.137) Without Development	**10**	**139**	**9**	**0**	**134**	**6**
2048 PM Peak Hour (Factor = 1.210) Without Development	**11**	**148**	**10**	**0**	**142**	**7**
2033-2048 PM Peak Hour Operational Trips	0	1	0	0	23	1
2033 PM Peak Hour With Development Operational	**10**	**135**	**9**	**0**	**152**	**7**
2038 PM Peak Hour With Development Operational	**10**	**140**	**9**	**0**	**157**	**7**
2048 PM Peak Hour With Development Operational	**11**	**149**	**10**	**0**	**165**	**8**

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Traffic Calculations – Summary
Existing R446-L1127 (3-arm) junction

Arm A = R446 to/from West (Tyrrellspass)
Arm B = L1127 local road
Arm C = R446 to/from East (Rochfortbridge)

Scenario	A-B	A-C	B-A	B-C	C-A	C-B
2025 AM Peak Hour (08:15 – 09:14)	73	120	29	138	153	199
AM Peak Subtraction of Castlelost Flexgen Development Traffic	0	-1	-1	0	-6	0
AM Peak Castlelost Flexgen Operational Traffic	0	0	1	0	5	0
2025 AM Peak Hour With Castlelost Flexgen Operational	73	119	29	138	151	199
2029 AM Peak Hour (Factor = 1.070) Without Development	**78**	**128**	**31**	**147**	**162**	**213**
2029 AM Peak Hour Construction HGV Trips	0	0	0	0	0	0
2029 AM Peak Hour Construction Employee Main Site Trips	2	3	4	0	21	0
2029 AM Peak Hour Construction Employee Solar Site Trips	0	0	1	0	4	0
2029 AM Peak Hour With Construction Trips	**80**	**132**	**36**	**147**	**187**	**213**
2033 AM Peak Hour (Factor = 1.099) Without Development	**80**	**131**	**32**	**151**	**166**	**219**
2038 AM Peak Hour (Factor = 1.137) Without Development	**83**	**136**	**33**	**157**	**172**	**226**
2048 AM Peak Hour (Factor = 1.210) Without Development	**88**	**145**	**35**	**167**	**183**	**241**
2033-2048 AM Peak Hour Operational Trips	1	1	3	0	16	0
2033 AM Peak Hour With Development Operational	**81**	**133**	**35**	**151**	**182**	**219**
2038 AM Peak Hour With Development Operational	**84**	**137**	**36**	**157**	**188**	**226**
2048 AM Peak Hour With Development Operational	**89**	**146**	**38**	**167**	**199**	**241**
2025 PM Peak Hour (17:00 – 17:59)	29	145	26	77	155	86
PM Peak Subtraction of Castlelost Flexgen Development Traffic	-3	-15	0	0	0	0
PM Peak Castlelost Flexgen Operational Traffic	1	6	0	0	0	0
2025 PM Peak Hour With Castlelost Flexgen Operational	27	136	26	77	155	86
2029 PM Peak Hour (Factor = 1.070) Without Development	**29**	**146**	**28**	**82**	**165**	**92**
2029 PM Peak Hour Construction HGV Trips	0	0	0	0	0	0
2029 PM Peak Hour Construction Employee Main Site Trips	12	61	0	0	0	0
2029 PM Peak Hour Construction Employee Solar Site Trips	0	1	0	0	0	0
2029 PM Peak Hour With Construction Trips	**41**	**207**	**28**	**82**	**165**	**92**
2033 PM Peak Hour (Factor = 1.099) Without Development	**30**	**150**	**28**	**84**	**170**	**95**
2038 PM Peak Hour (Factor = 1.137) Without Development	**31**	**155**	**29**	**87**	**176**	**98**
2048 PM Peak Hour (Factor = 1.210) Without Development	**33**	**165**	**31**	**93**	**187**	**104**
2033-2048 PM Peak Hour Operational Trips	4	19	0	0	1	0
2033 PM Peak Hour With Development Operational	**34**	**169**	**29**	**84**	**170**	**95**
2038 PM Peak Hour With Development Operational	**35**	**174**	**30**	**87**	**176**	**98**
2048 PM Peak Hour With Development Operational	**37**	**184**	**31**	**93**	**188**	**104**

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Traffic Calculations – Summary
Existing R446/R400 (3-arm) roundabout junction

Arm A = R446 to/from East (Kinnegad)
Arm B = R400 to/from South (M6)
Arm C = R446 to/from West (Tyrrellspass)

Scenario	A-A	A-B	A-C	B-A	B-B	B-C	C-A	C-B	C-C
2025 AM Peak Hour (08:15 – 09:14)	9	98	272	105	0	80	177	81	8
AM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	-5	0	0	-1	0	0	0
AM Peak Castlelost Flexgen Operational Traffic	0	0	4	0	0	1	0	0	0
2025 AM Peak Hour With Castlelost Flexgen Operational	9	98	271	105	0	80	176	81	8
2029 AM Peak Hour (Factor = 1.070) Without Development	**10**	**105**	**290**	**113**	**0**	**85**	**189**	**87**	**9**
2029 AM Peak Hour Construction HGV Trips	0	0	0	0	0	0	0	0	0
2029 AM Peak Hour Construction Employee Main Site Trips	0	0	16	0	0	5	2	1	0
2029 AM Peak Hour Construction Employee Solar Site Trips	0	0	3	0	0	1	0	0	0
2029 AM Peak Hour With Construction Trips	**10**	**105**	**309**	**113**	**0**	**91**	**191**	**88**	**9**
2033 AM Peak Hour (Factor = 1.099) Without Development	**10**	**108**	**297**	**116**	**0**	**88**	**194**	**89**	**9**
2038 AM Peak Hour (Factor = 1.137) Without Development	**10**	**112**	**308**	**120**	**0**	**91**	**200**	**92**	**9**
2048 AM Peak Hour (Factor = 1.210) Without Development	**11**	**119**	**327**	**127**	**0**	**97**	**213**	**98**	**10**
2033-2048 AM Peak Hour Operational Trips	0	0	12	0	0	4	1	0	0
2033 AM Peak Hour With Development Operational	**10**	**108**	**310**	**116**	**0**	**91**	**195**	**89**	**9**
2038 AM Peak Hour With Development Operational	**10**	**112**	**320**	**120**	**0**	**94**	**201**	**93**	**9**
2048 AM Peak Hour With Development Operational	**11**	**119**	**340**	**127**	**0**	**100**	**214**	**98**	**10**
2025 PM Peak Hour (17:00 – 17:59)	2	116	181	111	0	60	165	57	6
PM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	0	0	0	0	-11	-4	0
PM Peak Castlelost Flexgen Operational Traffic	0	0	0	0	0	0	4	1	0
2025 PM Peak Hour With Castlelost Flexgen Operational	2	116	181	111	0	60	159	54	6
2029 PM Peak Hour (Factor = 1.070) Without Development	**2**	**124**	**194**	**119**	**0**	**64**	**170**	**58**	**6**
2029 PM Peak Hour Construction HGV Trips	0	0	0	0	0	0	0	0	0
2029 PM Peak Hour Construction Employee Main Site Trips	0	0	0	0	0	0	45	15	0
2029 PM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	0	0	1	0	0
2029 PM Peak Hour With Construction Trips	**2**	**124**	**194**	**119**	**0**	**64**	**215**	**74**	**6**
2033 PM Peak Hour (Factor = 1.099) Without Development	**2**	**127**	**199**	**122**	**0**	**66**	**174**	**60**	**7**
2038 PM Peak Hour (Factor = 1.137) Without Development	**2**	**132**	**206**	**127**	**0**	**68**	**180**	**62**	**7**
2048 PM Peak Hour (Factor = 1.210) Without Development	**2**	**140**	**219**	**135**	**0**	**72**	**192**	**66**	**7**
2033-2048 PM Peak Hour Operational Trips	0	0	0	0	0	0	14	5	0
2033 PM Peak Hour With Development Operational	**2**	**127**	**199**	**122**	**0**	**66**	**188**	**65**	**7**
2038 PM Peak Hour With Development Operational	**2**	**132**	**206**	**127**	**0**	**68**	**194**	**67**	**7**
2048 PM Peak Hour With Development Operational	**2**	**140**	**220**	**135**	**0**	**72**	**206**	**71**	**7**

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APPENDIX 13.2

Construction Trip Generation Calculations

Two-way HGV trips per month

Red Admiral			Year 1													Year 2													Year 3													Year 4													Year 5											
Project		Phase	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Phase 1	DC1+2, Fuel Cell 1, BESS, Solar 1, Grid	E&P	97	97	97																																																																		
		C&S	286	286	382	477	477	477	477	477	477	477	477	477	477	477	477	477	382	286																																															
		M&E													140	234	327	327	374	234	234	234	234	281	281																																																
		C&T																		64	64	64	64	64	64	129	64																																											
Phase 2	DC3+4, Fuel Cell 2, Solar 2 (x2)	E&P														124	124																																																			
		C&S																118	157	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	393	157																																							
		M&E																											209	209	209	209	209	209	200	209	200	209	209	209																														
		C&T																																			29	29	29	29	59	59	59	59	59	59	29																				
Phase 3	DC5+6, Fuel Cell 3	E&P																																			109	109																														
		C&S																																			117	235	235	235	313	313	313	313	313	313	313	313	313	313	313	313	313	313	78	78	78	78	78	78	78	78	78	
		M&E																																																																
		C&T																																																																		
		Total	383	383	479	477	477	477	477	477	477	477	477	477	477	618	836	929	827	818	691	691	691	691	738	522	457	601	601	601	601	601	601	593	601	613	582	473	473	371	371	371	371	371	371	342	313	313	459	459	459	488	488	297	297	297	297	297	297	297	297	122	44

Two-way HGV trips per weekday

Red Admiral			Year 1													Year 2													Year 3													Year 4													Year 5											
Project		Phase	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Phase 1	DC1+2, Fuel Cell 1, BESS, Solar 1, Grid	E&P	4	4	4																																																																
		C&S	12	12	16	20	20	20	20	20	20	20	20	20	20	20	20	20	16	12																																															
		M&E													6	10	14	14	16	10	10	10	10	12	12																																															
		C&T																		3	3	3	3	3	3	5	3																																								
Phase 2	DC3+4, Fuel Cell 2, Solar 2 (x2)	E&P														5	5																																															
		C&S																5	7	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	7																																				
		M&E																											9	9	9	9	9	9	8	9	8	9	9	9																												
		C&T																																			1	1	1	1	2	2	2	2	2	2	1																				
Phase 3	DC5+6, Fuel Cell 3	E&P																																			5	5																														
		C&S																																			5	10	10	10	13	13	13	13	13	13	13	13	13	13	13	13	13	13	3	3	3	3	3	3	3	3	3	
		M&E																																																															
		C&T																																																																	
		Total	16	16	20	20	20	20	20	20	20	20	20	20	20	26	35	39	35	35	29	29	29	29	31	31	22	19	25	25	25	25	25	25	25	25	26	25	20	20	16	16	16	16	16	16	14	13	13	19	19	19	21	21	13	13	13	13	13	13	13	13	5	2

Two-way HGV trips per weekday hour

Red Admiral			Year 1													Year 2													Year 3													Year 4													Year 5											
Project		Phase	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Phase 1	DC1+2, Fuel Cell 1, BESS, Solar 1, Grid	E&P	0	0	0																																																													
		C&S	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1																																														
		M&E													0	1	1	1	1	1	1	1	1	1	1																																														
		C&T																		0	0	0	0	0	0	0	0																																								
Phase 2	DC3+4, Fuel Cell 2, Solar 2 (x2)	E&P														0	0																																														
		C&S																0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1																																				
		M&E																											1	1	1	1	1	1	1	1	1	1	1	1																												
		C&T																																			0	0	0	0	0	0	0	0	0	0	0																				
Phase 3	DC5+6, Fuel Cell 3	E&P																																			0	0																														
		C&S																																			0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	
		M&E																																																															
		C&T																																																																	
		Total	1	1	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	2	2	2	2	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	1	1	0	0

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Two-way Employee trips per weekday

Project	Red Admiral	Phase			Year 1												Year 2												Year 3												Year 4												Year 5											
			11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Phase 1	DC1+2, Fuel Cell 1, BESS, Solar 1, Grid	E&P	25	25	25																																																											
		C&S	150	150	200	250	250	250	250	250	250	250	250	250	250	250	250	250	200	150																																												
		M&E														75	125	175	175	200	125	125	125	125	150	150																																						
		C&T																			50	50	50	50	50	50	100	50																																				
Phase 2	DC3+4, Fuel Cell 2, Solar 2 (x2)	E&P															25	25																																															
		C&S																	75	100	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	100																											
		M&E																											125	125	125	125	125	125	120	125	120	125	125	125																								
		C&T																																			50	50	50	50	100	100	100	100	100	100	50																	
Phase 3	DC5+6, Fuel Cell 3	E&P																																			25	25																											
		C&S																																			75	150	150	150	200	200	200	200	200	200	200	200	200	200	200	200	200	200	50	50	50	50	50	50	50	50	50	
		M&E																																																125	125	125	150	150	150	150	150	150	150	150	150	150		
		C&T																																																					100	100	100	100	100	100	100	100	100	100
		Total	175	175	225	250	250	250	250	250	250	250	250	250	250	325	400	450	450	450	425	425	425	425	450	450	350	300	375	375	375	375	375	375	370	375	370	350	325	325	300	300	300	300	300	300	250	200	200	325	325	325	350	350	300	300	300	300	300	300	300	300	150	100

Employee arrivals AM Peak hour

Project	Red Admiral	Phase			Year 1												Year 2												Year 3												Year 4												Year 5											
			11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Phase 1	DC1+2, Fuel Cell 1, BESS, Solar 1, Grid	E&P	5	5	5																																																											
		C&S	30	30	40	50	50	50	50	50	50	50	50	50	50	50	50	50	40	30																																														
		M&E														15	25	35	35	40	25	25	25	25	30	30																																						
		C&T																			10	10	10	10	10	10	20	10																																				
Phase 2	DC3+4, Fuel Cell 2, Solar 2 (x2)	E&P															5	5																																															
		C&S																	15	20	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	20																											
		M&E																											25	25	25	25	25	25	24	25	24	25	25	25																								
		C&T																																			10	10	10	10	20	20	20	20	20	20	10																	
Phase 3	DC5+6, Fuel Cell 3	E&P																																			5	5																											
		C&S																																			15	30	30	30	40	40	40	40	40	40	40	40	40	40	40	40	40	40	10	10	10	10	10	10	10	10	10	
		M&E																																																25	25	25	30	30	30	30	30	30	30	30	30	30		
		C&T																																																					20	20	20	20	20	20	20	20	20	20
		Total	35	35	45	50	50	50	50	50	50	50	50	50	50	65	80	90	90	90	85	85	85	85	90	90	70	60	75	75	75	75	75	75	74	75	74	70	65	65	60	60	60	60	60	60	50	40	40	65	65	65	70	70	60	60	60	60	60	60	60	60	30	20

Employee departures AM Peak hour

Project	Red Admiral	Phase			Year 1												Year 2												Year 3												Year 4												Year 5											
			11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Phase 1	DC1+2, Fuel Cell 1, BESS, Solar 1, Grid	E&P	1	1	1																																																											
		C&S	5	5	6	8	8	8	8	8	8	8	8	8	8	8	8	8	6	5																																														
		M&E														2	4	5	5	6	4	4	4	4	5	5																																						
		C&T																			2	2	2	2	2	2	3	2																																				
Phase 2	DC3+4, Fuel Cell 2, Solar 2 (x2)	E&P															1	1																																															
		C&S																	2	3	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	3																											
		M&E																											4	4	4	4	4	4	4	4	4	4	4	4																								
		C&T																																			2	2	2	2	3	3	3	3	3	3	2																	
Phase 3	DC5+6, Fuel Cell 3	E&P																																			1	1																											
		C&S																																			2	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	2	2	2	2	2	2	2	2	2	
		M&E																																																4	4	4	5	5	5	5	5	5	5	5	5	5		
		C&T																																																					3	3	3	3	3	3	3	3	3	3
		Total	5	5	7	8	8	8	8	8	8	8	8	8	8	10	12	14	14	14	13	13	13	13	14	14	11	9	11	11	11	11	11	11	11	11	11	11	10	10	9	9	9	9	9	9	8	6	6	10	10	10	11	11	9	9	9	9	9	9	9	9	5	3

Employee departures PM Peak hour

Project	Red Admiral	Phase			Year 1												Year 2												Year 3												Year 4												Year 5											
			11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Phase 1	DC1+2, Fuel Cell 1, BESS, Solar 1, Grid	E&P	13	13	13																																																											
		C&S	75	75	100	125	125	125	125	125	125	125	125	125	125	125	125	125	100	75																																															
		M&E														38	63	88	88	100	63	63	63	63	75	75																																						
		C&T																			25	25	25	25	25	25	50	25																																				
Phase 2	DC3+4, Fuel Cell 2, Solar 2 (x2)	E&P															13	13																																															
		C&S																	38	50	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	50																											
		M&E																											63	63	63	63	63	63	60	63	60	63	63	63																								
		C&T																																			25	25	25	25	50	50	50	50	50	50	25																	
Phase 3	DC5+6, Fuel Cell 3	E&P																																			13	13																											
		C&S																																			38	75	75	75	100	100	100	100	100	100	100	100	100	100	100	100	100	100	25	25	25	25	25	25	25	25	25	
		M&E																																																63	63	63	75	75	75	75	75	75	75	75	75	75		
		C&T																																																					50	50	50	50	50	50	50	50	50	50
		Total	88	88	113	125	125	125	125	125	125	125	125	125	125	163	200	225	225	225	213	213	213	213	225	225	175	150	188	188	188	188	188	188	185	188	185	175	163	163	150	150	150	150	150	150	125	100	100	163	163	163	175	175	150	150	150	150	150	150	150	150	75	50

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Project Admiral – Operational Phase Trip Generation

Time Period	Security		PM/MGT/Admin		M&E		Facilities/DER		Visitors		Total	
	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
00:00-00:59	0	0	0	0	0	0	0	0	0	0	0	0
01:00-01:59	0	0	0	0	0	0	0	0	0	0	0	0
02:00-02:59	0	0	0	0	0	0	0	0	0	0	0	0
03:00-03:59	0	0	0	0	0	0	0	0	0	0	0	0
04:00-04:59	0	0	0	0	0	0	0	0	0	0	0	0
05:00-05:59	0	0	0	0	45	5	5	0	0	0	50	5
06:00-06:59	10	10	0	0	15	55	15	0	0	0	40	65
07:00-07:59	5	5	10	0	0	0	20	0	0	0	35	5
08:00-08:59	0	0	50	0	0	0	15	0	8	6	73	6
09:00-09:59	0	0	30	0	0	0	5	0	4	2	39	2
10:00-10:59	0	0	0	0	0	0	0	0	6	4	6	4
11:00-11:59	0	0	0	0	0	0	0	0	6	6	6	6
12:00-12:59	0	0	0	0	0	0	0	0	6	6	6	6
13:00-13:59	0	0	0	0	45	5	0	0	2	6	47	11
14:00-14:59	0	0	0	0	15	55	0	5	2	2	17	62
15:00-15:59	0	0	0	0	0	0	0	15	2	2	2	17
16:00-16:59	0	0	0	40	0	0	0	20	2	2	2	62
17:00-17:59	0	0	0	50	0	0	0	15	2	2	2	67
18:00-18:59	5	5	0	0	0	0	0	5	0	2	5	12
19:00-19:59	10	10	0	0	0	0	0	0	0	0	10	10
20:00-20:59	0	0	0	0	0	0	0	0	0	0	0	0
21:00-21:59	0	0	0	0	45	5	0	0	0	0	45	5
22:00-22:59	0	0	0	0	15	55	0	0	0	0	15	55
23:00-23:59	0	0	0	0	0	0	0	0	0	0	0	0
24h	30	30	90	90	180	180	60	60	40	40	400	400

Peak Hour Trip Generation		
Time Period	Arrivals	Departures
08-15-09:14	65	5
17:00-17:59	2	67

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APPENDIX 13.3

Traffic Calculations – Summary
Existing N52/R446 (4-arm) roundabout junction

Arm A = R446 to/from West (Tyrrellspass)
Arm B = N52 to/from North (Mullingar)
Arm C = R446 to/from East (Rochfortbridge)
Arm D = N52 to/from South (M6)

Scenario	A-A	A-B	A-C	A-D	B-A	B-B	B-C	B-D	C-A	C-B	C-C	C-D	D-A	D-B	D-C	D-D
2025 AM Peak Hour (08:15 – 09:14)	1	145	113	79	50	1	22	439	96	20	0	38	69	331	15	5
AM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	-9	0	0	0	-2	0	-1	0	0	0	0	0	-1	0
AM Peak Castlelost Flexgen Operational Traffic	0	0	10	0	0	0	2	0	0	0	0	0	0	0	1	0
2025 AM Peak Hour With Castlelost Flexgen Operational	1	145	114	79	50	1	22	439	94	20	0	38	69	331	15	5
2029 AM Peak Hour (Factor = 1.070) Without Development	**1**	**155**	**122**	**85**	**53**	**1**	**24**	**470**	**101**	**21**	**0**	**40**	**74**	**354**	**16**	**5**
2029 AM Peak Hour Construction HGV Trips	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	0
2029 AM Peak Hour Construction Employee Main Site Trips	0	0	42	0	0	0	8	0	5	1	0	2	0	0	6	0
2029 AM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2029 AM Peak Hour With Construction Trips	**1**	**155**	**164**	**85**	**53**	**1**	**32**	**470**	**105**	**22**	**0**	**49**	**74**	**354**	**29**	**5**
2033 AM Peak Hour (Factor = 1.099) Without Development	**1**	**159**	**125**	**87**	**55**	**1**	**24**	**483**	**104**	**22**	**0**	**41**	**76**	**363**	**17**	**5**
2038 AM Peak Hour (Factor = 1.137) Without Development	**1**	**165**	**130**	**90**	**57**	**1**	**25**	**500**	**107**	**22**	**0**	**43**	**79**	**376**	**17**	**6**
2048 AM Peak Hour (Factor = 1.210) Without Development	**1**	**175**	**138**	**96**	**60**	**1**	**27**	**532**	**114**	**24**	**0**	**45**	**84**	**400**	**18**	**6**
2033-2048 AM Peak Hour Operational Trips	0	0	32	0	0	0	6	0	2	0	0	1	0	0	4	0
2033 AM Peak Hour With Development Operational	**1**	**159**	**157**	**87**	**55**	**1**	**31**	**483**	**105**	**22**	**0**	**42**	**76**	**363**	**21**	**5**
2038 AM Peak Hour With Development Operational	**1**	**165**	**162**	**90**	**57**	**1**	**32**	**500**	**109**	**23**	**0**	**43**	**79**	**376**	**21**	**6**
2048 AM Peak Hour With Development Operational	**1**	**175**	**170**	**96**	**60**	**1**	**33**	**532**	**116**	**24**	**0**	**46**	**84**	**400**	**23**	**6**
2025 PM Peak Hour (17:00 – 17:59)	0	96	114	74	63	1	30	400	78	19	1	41	85	355	14	1
PM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	0	0	0	0	0	0	-18	-4	0	-9	0	0	0	0
PM Peak Castlelost Flexgen Operational Traffic	0	0	0	0	0	0	0	0	7	2	0	4	0	0	0	0
2025 PM Peak Hour With Castlelost Flexgen Operational	0	96	114	74	63	1	30	400	67	16	1	35	85	355	14	1
2029 PM Peak Hour (Factor = 1.070) Without Development	**0**	**102**	**122**	**80**	**67**	**1**	**32**	**428**	**72**	**17**	**1**	**37**	**91**	**379**	**15**	**1**
2029 PM Peak Hour Construction HGV Trips	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	0
2029 PM Peak Hour Construction Employee Main Site Trips	0	0	0	0	0	0	0	0	74	18	0	38	0	0	0	0
2029 PM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2029 PM Peak Hour With Construction Trips	**0**	**102**	**122**	**80**	**67**	**1**	**32**	**428**	**146**	**35**	**1**	**83**	**91**	**379**	**22**	**1**
2033 PM Peak Hour (Factor = 1.099) Without Development	**0**	**105**	**125**	**82**	**69**	**1**	**33**	**440**	**74**	**18**	**1**	**38**	**93**	**390**	**15**	**1**
2038 PM Peak Hour (Factor = 1.137) Without Development	**0**	**109**	**130**	**84**	**71**	**1**	**34**	**455**	**76**	**19**	**1**	**40**	**96**	**403**	**16**	**1**
2048 PM Peak Hour (Factor = 1.210) Without Development	**0**	**116**	**138**	**90**	**76**	**1**	**36**	**484**	**81**	**20**	**1**	**42**	**102**	**429**	**17**	**1**
2033-2048 PM Peak Hour Operational Trips	0	0	1	0	0	0	0	0	23	6	0	12	0	0	0	0
2033 PM Peak Hour With Development Operational	**0**	**105**	**126**	**82**	**69**	**1**	**33**	**440**	**97**	**24**	**1**	**50**	**93**	**390**	**16**	**1**
2038 PM Peak Hour With Development Operational	**0**	**109**	**131**	**84**	**71**	**1**	**34**	**455**	**100**	**24**	**1**	**52**	**96**	**403**	**16**	**1**
2048 PM Peak Hour With Development Operational	**0**	**116**	**139**	**90**	**76**	**1**	**37**	**484**	**105**	**25**	**1**	**54**	**102**	**429**	**17**	**1**

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Traffic Calculations – Summary
Existing R446/L5125 (3-arm) junction

Arm A = R446 to/from West (Tyrrellspass)
Arm B = L5125 local road
Arm C = R446 to/from East (Rochfortbridge)

Scenario	A-B	A-C	B-A	B-C	C-A	C-B
2025 AM Peak Hour (08:15 – 09:14)	2	127	3	3	90	0
AM Peak Subtraction of Castlelost Flexgen Development Traffic	0	-12	0	0	-2	0
AM Peak Castlelost Flexgen Operational Traffic	0	13	0	0	0	0
2025 AM Peak Hour With Castlelost Flexgen Operational	2	129	3	3	88	0
2029 AM Peak Hour (Factor = 1.070) Without Development	**2**	**138**	**3**	**4**	**94**	**0**
2029 AM Peak Hour Construction HGV Trips	0	7	0	0	7	0
2029 AM Peak Hour Construction Employee Main Site Trips	0	56	0	1	7	0
2029 AM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	0	0
2029 AM Peak Hour With Construction Trips	**2**	**200**	**3**	**5**	**108**	**0**
2033 AM Peak Hour (Factor = 1.099) Without Development	**2**	**141**	**3**	**4**	**97**	**0**
2038 AM Peak Hour (Factor = 1.137) Without Development	**2**	**146**	**3**	**4**	**100**	**0**
2048 AM Peak Hour (Factor = 1.210) Without Development	**2**	**156**	**4**	**4**	**106**	**0**
2033-2048 AM Peak Hour Operational Trips	0	43	0	1	3	0
2033 AM Peak Hour With Development Operational	**2**	**184**	**3**	**5**	**99**	**0**
2038 AM Peak Hour With Development Operational	**2**	**189**	**3**	**5**	**103**	**0**
2048 AM Peak Hour With Development Operational	**2**	**198**	**4**	**5**	**109**	**0**
2025 PM Peak Hour (17:00 – 17:59)	1	109	1	1	143	4
PM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	0	0	-32	-1
PM Peak Castlelost Flexgen Operational Traffic	0	0	0	0	12	0
2025 PM Peak Hour With Castlelost Flexgen Operational	1	109	1	1	123	3
2029 PM Peak Hour (Factor = 1.070) Without Development	**1**	**117**	**1**	**1**	**131**	**4**
2029 PM Peak Hour Construction HGV Trips	0	7	0	0	7	0
2029 PM Peak Hour Construction Employee Main Site Trips	0	0	0	0	131	4
2029 PM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	0	0
2029 PM Peak Hour With Construction Trips	**1**	**124**	**1**	**1**	**270**	**7**
2033 PM Peak Hour (Factor = 1.099) Without Development	**1**	**120**	**1**	**1**	**135**	**4**
2038 PM Peak Hour (Factor = 1.137) Without Development	**1**	**124**	**1**	**1**	**140**	**4**
2048 PM Peak Hour (Factor = 1.210) Without Development	**1**	**132**	**1**	**1**	**149**	**4**
2033-2048 PM Peak Hour Operational Trips	0	1	0	0	41	1
2033 PM Peak Hour With Development Operational	**1**	**121**	**1**	**1**	**176**	**5**
2038 PM Peak Hour With Development Operational	**1**	**126**	**1**	**1**	**181**	**5**
2048 PM Peak Hour With Development Operational	**1**	**134**	**1**	**1**	**190**	**5**

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Traffic Calculations – Summary
Existing R446/Castlelost Development Site (3-arm) junction

Arm A = R446 to/from East (Rochfortbridge)
Arm B = Castlelost Development Site
Arm C = R446 to/from West (Tyrrellspass)

Scenario	A-B	A-C	B-A	B-C	C-A	C-B
2025 AM Peak Hour (08:15 – 09:14)	8	86	3	4	114	17
AM Peak Subtraction of Castlelost Flexgen Development Traffic	-8	0	-1	-2	0	-12
AM Peak Castlelost Flexgen Operational Traffic	7	0	0	0	0	13
2025 AM Peak Hour With Castlelost Flexgen Operational	7	86	2	2	114	18
2029 AM Peak Hour (Factor = 1.070) Without Development	**7**	**92**	**2**	**2**	**122**	**19**
2029 AM Peak Hour Construction HGV Trips	0	0	0	7	0	7
2029 AM Peak Hour Construction Employee Main Site Trips	28	0	6	7	0	57
2029 AM Peak Hour Construction Employee Solar Site Trips	0	1	0	0	0	0
2029 AM Peak Hour With Construction Trips	**35**	**92**	**8**	**17**	**122**	**84**
2033 AM Peak Hour (Factor = 1.099) Without Development	**7**	**94**	**3**	**3**	**125**	**20**
2038 AM Peak Hour (Factor = 1.137) Without Development	**7**	**97**	**3**	**3**	**129**	**21**
2048 AM Peak Hour (Factor = 1.210) Without Development	**8**	**104**	**3**	**3**	**138**	**22**
2033-2048 AM Peak Hour Operational Trips	21	0	2	3	0	44
2033 AM Peak Hour With Development Operational	**28**	**94**	**5**	**5**	**125**	**64**
2038 AM Peak Hour With Development Operational	**29**	**97**	**5**	**5**	**129**	**64**
2048 AM Peak Hour With Development Operational	**29**	**104**	**5**	**6**	**138**	**66**
2025 PM Peak Hour (17:00 – 17:59)	0	114	19	33	110	0
PM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	-19	-33	0	0
PM Peak Castlelost Flexgen Operational Traffic	0	0	7	13	0	0
2025 PM Peak Hour With Castlelost Flexgen Operational	0	114	7	13	110	0
2029 PM Peak Hour (Factor = 1.070) Without Development	**0**	**121**	**8**	**14**	**118**	**0**
2029 PM Peak Hour Construction HGV Trips	0	0	0	7	0	7
2029 PM Peak Hour Construction Employee Main Site Trips	0	0	78	135	0	0
2029 PM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	0	0
2029 PM Peak Hour With Construction Trips	**0**	**121**	**86**	**156**	**118**	**7**
2033 PM Peak Hour (Factor = 1.099) Without Development	**0**	**125**	**8**	**14**	**121**	**0**
2038 PM Peak Hour (Factor = 1.137) Without Development	**0**	**129**	**8**	**14**	**125**	**0**
2048 PM Peak Hour (Factor = 1.210) Without Development	**0**	**137**	**9**	**15**	**133**	**0**
2033-2048 PM Peak Hour Operational Trips	1	0	24	43	0	1
2033 PM Peak Hour With Development Operational	**1**	**125**	**33**	**56**	**121**	**1**
2038 PM Peak Hour With Development Operational	**1**	**129**	**33**	**57**	**125**	**1**
2048 PM Peak Hour With Development Operational	**1**	**137**	**33**	**58**	**133**	**1**

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Traffic Calculations – Summary
Existing R446/L51251 (3-arm) junction

Arm A = R446 to/from East (Rochfortbridge)
Arm B = L51251 local road
Arm C = R446 to/from West (Tyrrellspass)

Scenario	A-B	A-C	B-A	B-C	C-A	C-B
2025 AM Peak Hour (08:15 – 09:14)	4	91	7	3	117	0
AM Peak Subtraction of Castlelost Flexgen Development Traffic	0	-8	0	0	-1	0
AM Peak Castlelost Flexgen Operational Traffic	0	6	0	0	0	0
2025 AM Peak Hour With Castlelost Flexgen Operational	4	89	7	3	116	0
2029 AM Peak Hour (Factor = 1.070) Without Development	**4**	**95**	**7**	**3**	**124**	**0**
2029 AM Peak Hour Construction HGV Trips	0	0	0	0	0	0
2029 AM Peak Hour Construction Employee Main Site Trips	0	27	0	1	6	0
2029 AM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	1	0
2029 AM Peak Hour With Construction Trips	**4**	**122**	**7**	**4**	**130**	**0**
2033 AM Peak Hour (Factor = 1.099) Without Development	**4**	**98**	**8**	**3**	**128**	**0**
2038 AM Peak Hour (Factor = 1.137) Without Development	**5**	**101**	**8**	**3**	**132**	**0**
2048 AM Peak Hour (Factor = 1.210) Without Development	**5**	**108**	**8**	**4**	**140**	**0**
2033-2048 AM Peak Hour Operational Trips	0	20	0	1	2	0
2033 AM Peak Hour With Development Operational	**4**	**118**	**8**	**4**	**130**	**0**
2038 AM Peak Hour With Development Operational	**5**	**122**	**8**	**4**	**134**	**0**
2048 AM Peak Hour With Development Operational	**5**	**128**	**8**	**4**	**143**	**0**
2025 PM Peak Hour (17:00 – 17:59)	10	113	8	1	126	3
PM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	0	0	-19	0
PM Peak Castlelost Flexgen Operational Traffic	0	0	0	0	7	0
2025 PM Peak Hour With Castlelost Flexgen Operational	10	113	8	1	115	3
2029 PM Peak Hour (Factor = 1.070) Without Development	**11**	**120**	**9**	**1**	**123**	**3**
2029 PM Peak Hour Construction HGV Trips	0	0	0	0	0	0
2029 PM Peak Hour Construction Employee Main Site Trips	0	0	0	0	76	2
2029 PM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	0	0
2029 PM Peak Hour With Construction Trips	**11**	**120**	**9**	**1**	**199**	**5**
2033 PM Peak Hour (Factor = 1.099) Without Development	**11**	**124**	**9**	**1**	**126**	**3**
2038 PM Peak Hour (Factor = 1.137) Without Development	**11**	**128**	**9**	**1**	**131**	**3**
2048 PM Peak Hour (Factor = 1.210) Without Development	**12**	**136**	**10**	**1**	**139**	**3**
2033-2048 PM Peak Hour Operational Trips	0	1	0	0	24	1
2033 PM Peak Hour With Development Operational	**11**	**124**	**9**	**1**	**150**	**4**
2038 PM Peak Hour With Development Operational	**11**	**129**	**9**	**1**	**155**	**4**
2048 PM Peak Hour With Development Operational	**12**	**137**	**10**	**1**	**163**	**4**

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Traffic Calculations – Summary
Existing R446-L11272 (3-arm) junction

Arm A = R446 to/from East (Rochfortbridge)
Arm B = L11272 local road
Arm C = R446 to/from West (Tyrrellspass)

Scenario	A-B	A-C	B-A	B-C	C-A	C-B
2025 AM Peak Hour (08:15 – 09:14)	9	89	15	6	123	1
AM Peak Subtraction of Castlelost Flexgen Development Traffic	0	-7	0	0	-1	0
AM Peak Castlelost Flexgen Operational Traffic	0	6	0	0	0	0
2025 AM Peak Hour With Castlelost Flexgen Operational	9	87	15	6	122	1
2029 AM Peak Hour (Factor = 1.070) Without Development	**10**	**93**	**16**	**6**	**131**	**1**
2029 AM Peak Hour Construction HGV Trips	0	0	0	0	0	0
2029 AM Peak Hour Construction Employee Main Site Trips	0	25	0	2	6	0
2029 AM Peak Hour Construction Employee Solar Site Trips	5	0	1	0	0	1
2029 AM Peak Hour With Construction Trips	**14**	**118**	**16**	**8**	**136**	**2**
2033 AM Peak Hour (Factor = 1.099) Without Development	**10**	**96**	**16**	**6**	**134**	**1**
2038 AM Peak Hour (Factor = 1.137) Without Development	**10**	**99**	**17**	**7**	**139**	**1**
2048 AM Peak Hour (Factor = 1.210) Without Development	**11**	**106**	**18**	**7**	**148**	**1**
2033-2048 AM Peak Hour Operational Trips	0	19	0	1	2	0
2033 AM Peak Hour With Development Operational	**10**	**115**	**16**	**8**	**136**	**1**
2038 AM Peak Hour With Development Operational	**10**	**118**	**17**	**8**	**141**	**1**
2048 AM Peak Hour With Development Operational	**11**	**125**	**18**	**8**	**150**	**1**
2025 PM Peak Hour (17:00 – 17:59)	9	123	8	0	129	6
PM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	0	0	-18	-1
PM Peak Castlelost Flexgen Operational Traffic	0	0	0	0	7	0
2025 PM Peak Hour With Castlelost Flexgen Operational	9	123	8	0	118	5
2029 PM Peak Hour (Factor = 1.070) Without Development	**10**	**131**	**9**	**0**	**126**	**6**
2029 PM Peak Hour Construction HGV Trips	0	0	0	0	0	0
2029 PM Peak Hour Construction Employee Main Site Trips	0	0	0	0	73	3
2029 PM Peak Hour Construction Employee Solar Site Trips	0	0	1	0	0	0
2029 PM Peak Hour With Construction Trips	**10**	**131**	**10**	**0**	**199**	**9**
2033 PM Peak Hour (Factor = 1.099) Without Development	**10**	**135**	**9**	**0**	**129**	**6**
2038 PM Peak Hour (Factor = 1.137) Without Development	**10**	**139**	**9**	**0**	**134**	**6**
2048 PM Peak Hour (Factor = 1.210) Without Development	**11**	**148**	**10**	**0**	**142**	**7**
2033-2048 PM Peak Hour Operational Trips	0	1	0	0	23	1
2033 PM Peak Hour With Development Operational	**10**	**135**	**9**	**0**	**152**	**7**
2038 PM Peak Hour With Development Operational	**10**	**140**	**9**	**0**	**157**	**7**
2048 PM Peak Hour With Development Operational	**11**	**149**	**10**	**0**	**165**	**8**

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Traffic Calculations – Summary
Existing R446-L1127 (3-arm) junction

Arm A = R446 to/from West (Tyrrellspass)
Arm B = L1127 local road
Arm C = R446 to/from East (Rochfortbridge)

Scenario	A-B	A-C	B-A	B-C	C-A	C-B
2025 AM Peak Hour (08:15 – 09:14)	73	120	29	138	153	199
AM Peak Subtraction of Castlelost Flexgen Development Traffic	0	-1	-1	0	-6	0
AM Peak Castlelost Flexgen Operational Traffic	0	0	1	0	5	0
2025 AM Peak Hour With Castlelost Flexgen Operational	73	119	29	138	151	199
2029 AM Peak Hour (Factor = 1.070) Without Development	**78**	**128**	**31**	**147**	**162**	**213**
2029 AM Peak Hour Construction HGV Trips	0	0	0	0	0	0
2029 AM Peak Hour Construction Employee Main Site Trips	2	3	4	0	21	0
2029 AM Peak Hour Construction Employee Solar Site Trips	0	0	1	0	4	0
2029 AM Peak Hour With Construction Trips	**80**	**132**	**36**	**147**	**187**	**213**
2033 AM Peak Hour (Factor = 1.099) Without Development	**80**	**131**	**32**	**151**	**166**	**219**
2038 AM Peak Hour (Factor = 1.137) Without Development	**83**	**136**	**33**	**157**	**172**	**226**
2048 AM Peak Hour (Factor = 1.210) Without Development	**88**	**145**	**35**	**167**	**183**	**241**
2033-2048 AM Peak Hour Operational Trips	1	1	3	0	16	0
2033 AM Peak Hour With Development Operational	**81**	**133**	**35**	**151**	**182**	**219**
2038 AM Peak Hour With Development Operational	**84**	**137**	**36**	**157**	**188**	**226**
2048 AM Peak Hour With Development Operational	**89**	**146**	**38**	**167**	**199**	**241**
2025 PM Peak Hour (17:00 – 17:59)	29	145	26	77	155	86
PM Peak Subtraction of Castlelost Flexgen Development Traffic	-3	-15	0	0	0	0
PM Peak Castlelost Flexgen Operational Traffic	1	6	0	0	0	0
2025 PM Peak Hour With Castlelost Flexgen Operational	27	136	26	77	155	86
2029 PM Peak Hour (Factor = 1.070) Without Development	**29**	**146**	**28**	**82**	**165**	**92**
2029 PM Peak Hour Construction HGV Trips	0	0	0	0	0	0
2029 PM Peak Hour Construction Employee Main Site Trips	12	61	0	0	0	0
2029 PM Peak Hour Construction Employee Solar Site Trips	0	1	0	0	0	0
2029 PM Peak Hour With Construction Trips	**41**	**207**	**28**	**82**	**165**	**92**
2033 PM Peak Hour (Factor = 1.099) Without Development	**30**	**150**	**28**	**84**	**170**	**95**
2038 PM Peak Hour (Factor = 1.137) Without Development	**31**	**155**	**29**	**87**	**176**	**98**
2048 PM Peak Hour (Factor = 1.210) Without Development	**33**	**165**	**31**	**93**	**187**	**104**
2033-2048 PM Peak Hour Operational Trips	4	19	0	0	1	0
2033 PM Peak Hour With Development Operational	**34**	**169**	**29**	**84**	**170**	**95**
2038 PM Peak Hour With Development Operational	**35**	**174**	**30**	**87**	**176**	**98**
2048 PM Peak Hour With Development Operational	**37**	**184**	**31**	**93**	**188**	**104**

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Traffic Calculations – Summary
Existing R446/R400 (3-arm) roundabout junction

Arm A = R446 to/from East (Kinnegad)
Arm B = R400 to/from South (M6)
Arm C = R446 to/from West (Tyrrellspass)

Scenario	A-A	A-B	A-C	B-A	B-B	B-C	C-A	C-B	C-C
2025 AM Peak Hour (08:15 – 09:14)	9	98	272	105	0	80	177	81	8
AM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	-5	0	0	-1	0	0	0
AM Peak Castlelost Flexgen Operational Traffic	0	0	4	0	0	1	0	0	0
2025 AM Peak Hour With Castlelost Flexgen Operational	9	98	271	105	0	80	176	81	8
2029 AM Peak Hour (Factor = 1.070) Without Development	**10**	**105**	**290**	**113**	**0**	**85**	**189**	**87**	**9**
2029 AM Peak Hour Construction HGV Trips	0	0	0	0	0	0	0	0	0
2029 AM Peak Hour Construction Employee Main Site Trips	0	0	16	0	0	5	2	1	0
2029 AM Peak Hour Construction Employee Solar Site Trips	0	0	3	0	0	1	0	0	0
2029 AM Peak Hour With Construction Trips	**10**	**105**	**309**	**113**	**0**	**91**	**191**	**88**	**9**
2033 AM Peak Hour (Factor = 1.099) Without Development	**10**	**108**	**297**	**116**	**0**	**88**	**194**	**89**	**9**
2038 AM Peak Hour (Factor = 1.137) Without Development	**10**	**112**	**308**	**120**	**0**	**91**	**200**	**92**	**9**
2048 AM Peak Hour (Factor = 1.210) Without Development	**11**	**119**	**327**	**127**	**0**	**97**	**213**	**98**	**10**
2033-2048 AM Peak Hour Operational Trips	0	0	12	0	0	4	1	0	0
2033 AM Peak Hour With Development Operational	**10**	**108**	**310**	**116**	**0**	**91**	**195**	**89**	**9**
2038 AM Peak Hour With Development Operational	**10**	**112**	**320**	**120**	**0**	**94**	**201**	**93**	**9**
2048 AM Peak Hour With Development Operational	**11**	**119**	**340**	**127**	**0**	**100**	**214**	**98**	**10**
2025 PM Peak Hour (17:00 – 17:59)	2	116	181	111	0	60	165	57	6
PM Peak Subtraction of Castlelost Flexgen Development Traffic	0	0	0	0	0	0	-11	-4	0
PM Peak Castlelost Flexgen Operational Traffic	0	0	0	0	0	0	4	1	0
2025 PM Peak Hour With Castlelost Flexgen Operational	2	116	181	111	0	60	159	54	6
2029 PM Peak Hour (Factor = 1.070) Without Development	**2**	**124**	**194**	**119**	**0**	**64**	**170**	**58**	**6**
2029 PM Peak Hour Construction HGV Trips	0	0	0	0	0	0	0	0	0
2029 PM Peak Hour Construction Employee Main Site Trips	0	0	0	0	0	0	45	15	0
2029 PM Peak Hour Construction Employee Solar Site Trips	0	0	0	0	0	0	1	0	0
2029 PM Peak Hour With Construction Trips	**2**	**124**	**194**	**119**	**0**	**64**	**215**	**74**	**6**
2033 PM Peak Hour (Factor = 1.099) Without Development	**2**	**127**	**199**	**122**	**0**	**66**	**174**	**60**	**7**
2038 PM Peak Hour (Factor = 1.137) Without Development	**2**	**132**	**206**	**127**	**0**	**68**	**180**	**62**	**7**
2048 PM Peak Hour (Factor = 1.210) Without Development	**2**	**140**	**219**	**135**	**0**	**72**	**192**	**66**	**7**
2033-2048 PM Peak Hour Operational Trips	0	0	0	0	0	0	14	5	0
2033 PM Peak Hour With Development Operational	**2**	**127**	**199**	**122**	**0**	**66**	**188**	**65**	**7**
2038 PM Peak Hour With Development Operational	**2**	**132**	**206**	**127**	**0**	**68**	**194**	**67**	**7**
2048 PM Peak Hour With Development Operational	**2**	**140**	**220**	**135**	**0**	**72**	**206**	**71**	**7**

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APPENDIX 13.4

Junctions 9

ARCADY 9 - Roundabout Module

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Filename: N52.j9
Path: \\192.168.1.33
\ttrsa\projects\T241206_Westmeath_Admiral_Datacentre_Solar_Farm_EIAR_MMP_S1_RSA\eiar_chapter\modelling\N52
Report generation date: 08/07/2025 11:11:53

»2029 Without Development, AM
»2029 With Construction, AM
»2033 Without Development, AM
»2038 Without Development, AM
»2048 Without Development, AM
»2033 With Operational Development, AM
»2038 With Operational Development, AM
»2048 With Operational Development, AM
»2029 Without Development, PM
»2029 With Construction, PM
»2033 Without Development, PM
»2038 Without Development, PM
»2048 Without Development, PM
»2033 With Operational Development, PM
»2038 With Operational Development, PM
»2048 With Operational Development, PM

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Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2029 Without Development									
Arm A	D1	0.4	3.31	0.25	A	D9	0.3	3.17	0.21	A
Arm B		0.6	3.85	0.37	A		0.6	3.74	0.36	A
Arm C		0.3	5.24	0.19	A		0.2	4.84	0.15	A
Arm D		0.4	3.11	0.28	A		0.5	3.18	0.30	A
	2029 With Construction									
Arm A	D2	0.4	3.48	0.29	A	D10	0.3	3.22	0.22	A
Arm B		0.7	4.04	0.39	A		0.6	3.76	0.36	A
Arm C		0.3	5.35	0.21	A		0.5	5.97	0.31	A
Arm D		0.4	3.15	0.29	A		0.5	3.38	0.32	A
	2033 Without Development									
Arm A	D3	0.4	3.36	0.26	A	D11	0.3	3.22	0.22	A
Arm B		0.7	3.93	0.39	A		0.6	3.82	0.37	A
Arm C		0.3	5.35	0.20	A		0.2	4.92	0.15	A
Arm D		0.4	3.15	0.29	A		0.5	3.23	0.31	A
	2038 Without Development									
Arm A	D4	0.4	3.44	0.27	A	D12	0.3	3.28	0.23	A
Arm B		0.7	4.05	0.40	A		0.7	3.91	0.38	A
Arm C		0.3	5.49	0.21	A		0.2	5.03	0.16	A
Arm D		0.5	3.21	0.30	A		0.5	3.29	0.32	A
	2048 Without Development									
Arm A	D5	0.4	3.58	0.29	A	D13	0.4	3.40	0.25	A
Arm B		0.8	4.28	0.43	A		0.8	4.12	0.41	A
Arm C		0.3	5.78	0.23	A		0.2	5.25	0.18	A
Arm D		0.5	3.32	0.32	A		0.6	3.41	0.35	A
	2033 With Operational Development									
Arm A	D6	0.4	3.48	0.29	A	D14	0.3	3.23	0.22	A
Arm B		0.7	4.07	0.40	A		0.6	3.82	0.37	A
Arm C		0.3	5.36	0.20	A		0.3	5.22	0.20	A
Arm D		0.4	3.17	0.29	A		0.5	3.28	0.32	A
	2038 With Operational Development									
Arm A	D7	0.5	3.56	0.30	A	D15	0.3	3.29	0.23	A
Arm B		0.8	4.21	0.41	A		0.7	3.92	0.38	A
Arm C		0.3	5.53	0.22	A		0.3	5.34	0.21	A
Arm D		0.5	3.23	0.31	A		0.5	3.34	0.33	A
	2048 With Operational Development									
Arm A	D8	0.5	3.72	0.32	A	D16	0.4	3.41	0.25	A
Arm B		0.8	4.43	0.44	A		0.8	4.13	0.41	A
Arm C		0.3	5.81	0.23	A		0.3	5.59	0.23	A
Arm D		0.5	3.34	0.33	A		0.6	3.47	0.35	A

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

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File summary

File Description

Title	Admiral
Location	R446/N52 roundabout junction
Site number	
Date	08/07/2025
Version	EIAR
Status	Final
Identifier	
Client	Halston
Jobnumber	241206
Enumerator	TTRSA
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Construction	AM	ONE HOUR	08:00	09:30	15	✓
D3	2033 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D4	2038 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D5	2048 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D6	2033 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D7	2038 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D8	2048 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D9	2029 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D10	2029 With Construction	PM	ONE HOUR	16:45	18:15	15	✓
D11	2033 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D12	2038 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D13	2048 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D14	2033 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓
D15	2038 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓
D16	2048 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2029 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.65	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
A	R446 to/from West	
B	N52 to/from North	
C	R446 to/from East	
D	N52 to/from South	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
A	4.47	7.22	6.7	23.2	54.4	9.2	
B	3.68	7.10	11.9	23.9	52.4	12.5	
C	2.79	6.99	6.1	20.7	53.0	23.5	
D	3.96	7.79	17.1	26.2	52.9	35.1	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
A	0.637	1848
B	0.630	1770
C	0.523	1273
D	0.624	1864

The slope and intercept shown above include any corrections and adjustments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	363	100.000
B		ONE HOUR	✓	548	100.000
C		ONE HOUR	✓	162	100.000
D		ONE HOUR	✓	449	100.000

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Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	1	155	122	85
	B	53	1	24	470
	C	101	21	0	40
	D	74	354	16	5

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.25	3.31	0.4	A	333	500
B	0.37	3.85	0.6	A	503	754
C	0.19	5.24	0.3	A	149	223
D	0.28	3.11	0.4	A	412	618

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	273	68	298	1659	0.165	272	172	0.0	0.2	2.798	A
B	413	103	172	1661	0.248	411	399	0.0	0.4	3.101	A
C	122	30	461	1032	0.118	121	122	0.0	0.1	4.258	A
D	338	85	133	1781	0.190	337	450	0.0	0.3	2.686	A

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08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	326	82	357	1621	0.201	326	206	0.2	0.3	2.995	A
B	493	123	206	1640	0.300	492	477	0.4	0.5	3.381	A
C	146	36	552	985	0.148	145	146	0.1	0.2	4.623	A
D	404	101	159	1765	0.229	403	539	0.3	0.3	2.850	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	400	100	437	1571	0.254	399	252	0.3	0.4	3.313	A
B	603	151	252	1611	0.375	603	584	0.5	0.6	3.846	A
C	178	45	676	920	0.194	178	178	0.2	0.3	5.231	A
D	494	124	195	1742	0.284	494	660	0.3	0.4	3.108	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	400	100	437	1570	0.255	400	252	0.4	0.4	3.314	A
B	603	151	252	1611	0.375	603	585	0.6	0.6	3.851	A
C	178	45	677	920	0.194	178	178	0.3	0.3	5.235	A
D	494	124	195	1742	0.284	494	661	0.4	0.4	3.109	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	326	82	357	1621	0.201	327	206	0.4	0.3	3.000	A
B	493	123	206	1640	0.300	493	478	0.6	0.5	3.388	A
C	146	36	554	984	0.148	146	146	0.3	0.2	4.633	A
D	404	101	159	1764	0.229	404	540	0.4	0.3	2.853	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	273	68	299	1658	0.165	274	173	0.3	0.2	2.805	A
B	413	103	173	1661	0.248	413	400	0.5	0.4	3.109	A
C	122	30	463	1031	0.118	122	122	0.2	0.1	4.269	A
D	338	85	133	1781	0.190	338	452	0.3	0.3	2.690	A

2029 With Construction, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.79	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2029 With Construction	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	405	100.000
B		ONE HOUR	✓	556	100.000
C		ONE HOUR	✓	176	100.000
D		ONE HOUR	✓	462	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	1	155	164	85
	B	53	1	32	470
	C	105	22	0	49
	D	74	354	29	5

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.29	3.48	0.4	A	372	557
B	0.39	4.04	0.7	A	510	765
C	0.21	5.35	0.3	A	162	242
D	0.29	3.15	0.4	A	424	636

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	305	76	308	1652	0.185	304	175	0.0	0.2	2.877	A
B	419	105	213	1635	0.256	417	399	0.0	0.4	3.180	A
C	133	33	461	1032	0.128	132	169	0.0	0.2	4.307	A
D	348	87	136	1779	0.196	347	457	0.0	0.3	2.709	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	364	91	369	1613	0.226	364	209	0.2	0.3	3.105	A
B	500	125	255	1609	0.311	499	478	0.4	0.5	3.495	A
C	158	40	552	985	0.161	158	202	0.2	0.2	4.693	A
D	415	104	163	1762	0.236	415	547	0.3	0.3	2.881	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	446	111	452	1561	0.286	445	256	0.3	0.4	3.477	A
B	612	153	312	1573	0.389	611	585	0.5	0.7	4.032	A
C	194	48	676	920	0.211	193	247	0.2	0.3	5.339	A
D	509	127	200	1739	0.293	508	670	0.3	0.4	3.153	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	446	111	453	1560	0.286	446	257	0.4	0.4	3.481	A
B	612	153	313	1573	0.389	612	586	0.7	0.7	4.039	A
C	194	48	677	920	0.211	194	248	0.3	0.3	5.346	A
D	509	127	200	1739	0.293	509	671	0.4	0.4	3.154	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	364	91	370	1613	0.226	365	210	0.4	0.3	3.111	A
B	500	125	256	1609	0.311	501	479	0.7	0.5	3.503	A
C	158	40	554	984	0.161	159	203	0.3	0.2	4.704	A
D	415	104	164	1762	0.236	416	548	0.4	0.3	2.886	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	305	76	310	1651	0.185	305	176	0.3	0.2	2.882	A
B	419	105	214	1635	0.256	419	401	0.5	0.4	3.192	A
C	133	33	464	1031	0.129	133	170	0.2	0.2	4.321	A
D	348	87	137	1778	0.196	348	459	0.3	0.3	2.715	A

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2033 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.72	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2033 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	372	100.000
B		ONE HOUR	✓	563	100.000
C		ONE HOUR	✓	167	100.000
D		ONE HOUR	✓	461	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	1	159	125	87
	B	55	1	24	483
	C	104	22	0	41
	D	76	363	17	5

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

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Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.26	3.36	0.4	A	341	512
B	0.39	3.93	0.7	A	517	775
C	0.20	5.35	0.3	A	153	230
D	0.29	3.15	0.4	A	423	635

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	280	70	306	1654	0.169	279	177	0.0	0.2	2.822	A
B	424	106	176	1659	0.256	422	409	0.0	0.4	3.134	A
C	126	31	474	1026	0.123	125	125	0.0	0.1	4.307	A
D	347	87	137	1778	0.195	346	462	0.0	0.3	2.708	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	334	84	367	1615	0.207	334	212	0.2	0.3	3.029	A
B	506	127	211	1637	0.309	506	490	0.4	0.5	3.428	A
C	150	38	568	977	0.154	150	149	0.1	0.2	4.692	A
D	414	104	164	1761	0.235	414	553	0.3	0.3	2.880	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	410	102	449	1563	0.262	409	260	0.3	0.4	3.364	A
B	620	155	258	1607	0.386	619	599	0.5	0.7	3.923	A
C	184	46	695	910	0.202	184	183	0.2	0.3	5.338	A
D	508	127	201	1738	0.292	507	677	0.3	0.4	3.152	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	410	102	449	1563	0.262	410	260	0.4	0.4	3.365	A
B	620	155	259	1607	0.386	620	600	0.7	0.7	3.932	A
C	184	46	696	910	0.202	184	183	0.3	0.3	5.345	A
D	508	127	201	1738	0.292	508	678	0.4	0.4	3.152	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	334	84	367	1615	0.207	335	212	0.4	0.3	3.034	A
B	506	127	212	1636	0.309	507	491	0.7	0.5	3.437	A
C	150	38	569	976	0.154	150	149	0.3	0.2	4.701	A
D	414	104	165	1761	0.235	415	555	0.4	0.3	2.895	A

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09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	280	70	307	1653	0.169	280	178	0.3	0.2	2.829	A
B	424	106	177	1658	0.256	424	411	0.5	0.4	3.145	A
C	126	31	476	1024	0.123	126	125	0.2	0.2	4.321	A
D	347	87	138	1778	0.195	347	464	0.3	0.3	2.713	A

2038 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.81	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2038 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	386	100.000
B		ONE HOUR	✓	583	100.000
C		ONE HOUR	✓	172	100.000
D		ONE HOUR	✓	478	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	1	165	130	90
	B	57	1	25	500
	C	107	22	0	43
	D	79	376	17	6

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

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Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.27	3.44	0.4	A	354	531
B	0.40	4.05	0.7	A	535	802
C	0.21	5.49	0.3	A	158	237
D	0.30	3.21	0.5	A	439	658

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	291	73	317	1647	0.176	290	183	0.0	0.2	2.858	A
B	439	110	183	1654	0.265	437	423	0.0	0.4	3.184	A
C	129	32	491	1017	0.127	129	129	0.0	0.2	4.369	A
D	360	90	141	1776	0.203	359	479	0.0	0.3	2.737	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	347	87	379	1607	0.216	347	219	0.2	0.3	3.078	A
B	524	131	219	1632	0.321	524	507	0.4	0.5	3.500	A
C	155	39	588	966	0.160	154	155	0.2	0.2	4.781	A
D	430	107	169	1759	0.244	429	574	0.3	0.3	2.919	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	425	106	464	1553	0.274	425	268	0.3	0.4	3.439	A
B	642	160	268	1601	0.401	641	620	0.5	0.7	4.041	A
C	189	47	720	897	0.211	189	189	0.2	0.3	5.479	A
D	526	132	207	1735	0.303	526	703	0.3	0.5	3.207	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	425	106	465	1553	0.274	425	269	0.4	0.4	3.440	A
B	642	160	269	1600	0.401	642	621	0.7	0.7	4.048	A
C	189	47	721	896	0.211	189	189	0.3	0.3	5.487	A
D	526	132	207	1735	0.303	526	704	0.5	0.5	3.210	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	347	87	380	1607	0.216	347	220	0.4	0.3	3.084	A
B	524	131	220	1631	0.321	525	508	0.7	0.5	3.511	A
C	155	39	590	965	0.160	155	155	0.3	0.2	4.793	A
D	430	107	169	1758	0.244	430	575	0.5	0.4	2.922	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	291	73	318	1646	0.177	291	184	0.3	0.2	2.865	A
B	439	110	184	1654	0.265	439	425	0.5	0.4	3.198	A
C	129	32	494	1015	0.128	130	130	0.2	0.2	4.382	A
D	360	90	142	1775	0.203	360	482	0.4	0.3	2.742	A

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2048 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.99	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2048 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	410	100.000
B		ONE HOUR	✓	620	100.000
C		ONE HOUR	✓	183	100.000
D		ONE HOUR	✓	508	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	1	175	138	96
	B	60	1	27	532
	C	114	24	0	45
	D	84	400	18	6

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

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Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.29	3.58	0.4	A	376	564
B	0.43	4.28	0.8	A	569	853
C	0.23	5.78	0.3	A	168	252
D	0.32	3.32	0.5	A	466	699

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	309	77	337	1634	0.189	308	194	0.0	0.3	2.925	A
B	467	117	194	1647	0.283	465	450	0.0	0.4	3.278	A
C	138	34	522	1001	0.138	137	137	0.0	0.2	4.488	A
D	382	96	150	1770	0.216	381	509	0.0	0.3	2.791	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	369	92	403	1592	0.232	368	233	0.3	0.3	3.172	A
B	557	139	233	1623	0.343	557	539	0.4	0.6	3.637	A
C	165	41	625	947	0.174	164	164	0.2	0.2	4.959	A
D	457	114	180	1752	0.261	456	610	0.3	0.4	2.995	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	451	113	494	1534	0.294	451	285	0.3	0.4	3.580	A
B	683	171	285	1590	0.429	682	660	0.6	0.8	4.267	A
C	201	50	765	873	0.231	201	201	0.2	0.3	5.770	A
D	559	140	220	1727	0.324	559	747	0.4	0.5	3.320	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	451	113	494	1534	0.294	451	285	0.4	0.4	3.584	A
B	683	171	285	1590	0.429	683	661	0.8	0.8	4.276	A
C	201	50	766	873	0.231	201	201	0.3	0.3	5.779	A
D	559	140	220	1726	0.324	559	748	0.5	0.5	3.324	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	369	92	404	1591	0.232	369	233	0.4	0.3	3.175	A
B	557	139	233	1623	0.343	558	540	0.8	0.6	3.650	A
C	165	41	627	946	0.174	165	165	0.3	0.2	4.971	A
D	457	114	180	1751	0.261	457	611	0.5	0.4	3.601	A

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09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	309	77	338	1633	0.189	309	195	0.3	0.3	2.930	A
B	467	117	195	1647	0.283	467	452	0.6	0.4	3.293	A
C	138	34	525	999	0.138	138	138	0.2	0.2	4.506	A
D	382	96	151	1770	0.216	383	512	0.4	0.3	2.798	A

2033 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.79	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2033 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	404	100.000
B		ONE HOUR	✓	570	100.000
C		ONE HOUR	✓	169	100.000
D		ONE HOUR	✓	465	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	1	159	157	87
	B	55	1	31	483
	C	105	22	0	42
	D	76	363	21	5

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

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Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.29	3.48	0.4	A	371	556
B	0.40	4.07	0.7	A	523	785
C	0.20	5.36	0.3	A	155	233
D	0.29	3.17	0.4	A	427	640

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	304	76	309	1652	0.184	303	178	0.0	0.2	2.877	A
B	429	107	203	1642	0.261	428	409	0.0	0.4	3.192	A
C	127	32	474	1026	0.124	127	157	0.0	0.2	4.314	A
D	350	88	138	1778	0.197	349	463	0.0	0.3	2.715	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	363	91	370	1613	0.225	363	213	0.2	0.3	3.104	A
B	512	128	243	1616	0.317	512	490	0.4	0.5	3.511	A
C	152	38	568	977	0.156	152	188	0.2	0.2	4.702	A
D	418	105	165	1761	0.237	418	554	0.3	0.3	2.889	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	445	111	453	1560	0.285	444	261	0.3	0.4	3.476	A
B	628	157	298	1582	0.397	627	599	0.5	0.7	4.059	A
C	186	47	695	910	0.204	186	230	0.2	0.3	5.354	A
D	512	128	202	1738	0.295	512	678	0.3	0.4	3.165	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	445	111	454	1560	0.285	445	261	0.4	0.4	3.479	A
B	628	157	298	1582	0.397	628	600	0.7	0.7	4.066	A
C	186	47	696	910	0.205	186	230	0.3	0.3	5.362	A
D	512	128	203	1737	0.295	512	679	0.4	0.4	3.166	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	363	91	371	1612	0.225	364	213	0.4	0.3	3.110	A
B	512	128	244	1616	0.317	513	491	0.7	0.5	3.523	A
C	152	38	569	976	0.156	152	188	0.3	0.2	4.714	A
D	418	105	166	1760	0.237	418	556	0.4	0.3	2.892	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	304	76	310	1651	0.184	304	179	0.3	0.2	2.882	A
B	429	107	204	1641	0.261	430	411	0.5	0.4	3.203	A
C	127	32	476	1024	0.124	127	157	0.2	0.2	4.326	A
D	350	88	139	1777	0.197	350	465	0.3	0.3	2.719	A

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2038 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.90	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2038 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	418	100.000
B		ONE HOUR	✓	593	100.000
C		ONE HOUR	✓	175	100.000
D		ONE HOUR	✓	482	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	1	165	162	90
	B	60	1	32	500
	C	109	23	0	43
	D	79	376	21	6

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

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Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.30	3.56	0.5	A	384	575
B	0.41	4.21	0.8	A	544	816
C	0.22	5.53	0.3	A	161	241
D	0.31	3.23	0.5	A	442	663

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	315	79	320	1645	0.191	314	187	0.0	0.3	2.915	A
B	446	112	210	1637	0.273	445	424	0.0	0.4	3.250	A
C	132	33	494	1015	0.130	131	161	0.0	0.2	4.386	A
D	363	91	145	1773	0.205	362	479	0.0	0.3	2.750	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	376	94	384	1604	0.234	375	224	0.3	0.3	3.158	A
B	533	133	252	1611	0.331	533	508	0.4	0.5	3.595	A
C	157	39	591	965	0.163	157	193	0.2	0.2	4.805	A
D	433	108	174	1755	0.247	433	574	0.3	0.4	2.935	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	460	115	470	1550	0.297	460	274	0.3	0.5	3.559	A
B	653	163	308	1576	0.414	652	621	0.5	0.8	4.196	A
C	193	48	723	895	0.215	192	236	0.2	0.3	5.518	A
D	531	133	213	1731	0.307	530	703	0.4	0.5	3.230	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	460	115	470	1549	0.297	460	274	0.5	0.5	3.562	A
B	653	163	308	1576	0.414	653	622	0.8	0.8	4.206	A
C	193	48	724	895	0.215	193	237	0.3	0.3	5.526	A
D	531	133	214	1731	0.307	531	704	0.5	0.5	3.233	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	376	94	384	1604	0.234	376	224	0.5	0.3	3.164	A
B	533	133	252	1611	0.331	534	509	0.8	0.5	3.608	A
C	157	39	592	964	0.163	158	194	0.3	0.2	4.817	A
D	433	108	175	1755	0.247	434	575	0.5	0.4	2.938	A

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09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	315	79	322	1644	0.191	315	188	0.3	0.3	2.920	A
B	446	112	211	1637	0.273	447	426	0.5	0.4	3.264	A
C	132	33	496	1014	0.130	132	162	0.2	0.2	4.401	A
D	363	91	146	1773	0.205	363	482	0.4	0.3	2.753	A

2048 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	4.08	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2048 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	442	100.000
B		ONE HOUR	✓	626	100.000
C		ONE HOUR	✓	186	100.000
D		ONE HOUR	✓	513	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	1	175	170	96
	B	60	1	33	532
	C	116	24	0	46
	D	84	400	23	6

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

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Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.32	3.72	0.5	A	406	608
B	0.44	4.43	0.8	A	574	862
C	0.23	5.81	0.3	A	171	256
D	0.33	3.34	0.5	A	471	706

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	333	83	341	1632	0.204	332	196	0.0	0.3	2.982	A
B	471	118	222	1630	0.289	470	450	0.0	0.4	3.341	A
C	140	35	522	1001	0.140	139	170	0.0	0.2	4.502	A
D	386	97	151	1769	0.218	385	510	0.0	0.3	2.800	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	397	99	408	1589	0.250	397	234	0.3	0.4	3.256	A
B	563	141	266	1602	0.351	562	539	0.4	0.6	3.729	A
C	167	42	625	947	0.177	167	203	0.2	0.2	4.976	A
D	461	115	181	1751	0.263	461	611	0.3	0.4	3.008	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	487	122	499	1531	0.318	486	287	0.4	0.5	3.713	A
B	689	172	326	1565	0.441	688	660	0.6	0.8	4.422	A
C	205	51	765	873	0.234	204	249	0.2	0.3	5.796	A
D	565	141	222	1725	0.327	564	748	0.4	0.5	3.340	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	487	122	500	1530	0.318	487	287	0.5	0.5	3.717	A
B	689	172	326	1564	0.441	689	661	0.8	0.8	4.433	A
C	205	51	766	873	0.235	205	249	0.3	0.3	5.807	A
D	565	141	222	1725	0.327	565	749	0.5	0.5	3.343	A

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09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	397	99	409	1588	0.250	398	235	0.5	0.4	3.260	A
B	563	141	266	1602	0.351	564	540	0.8	0.6	3.741	A
C	167	42	627	946	0.177	168	203	0.3	0.2	4.988	A
D	461	115	182	1750	0.263	462	612	0.5	0.4	3.612	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	333	83	342	1631	0.204	333	197	0.4	0.3	2.993	A
B	471	118	223	1629	0.289	472	452	0.6	0.4	3.354	A
C	140	35	525	999	0.140	140	170	0.2	0.2	4.520	A
D	386	97	152	1769	0.218	387	513	0.4	0.3	2.809	A

2029 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.53	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2029 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	304	100.000
B		ONE HOUR	✓	528	100.000
C		ONE HOUR	✓	127	100.000
D		ONE HOUR	✓	486	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	102	122	80
	B	67	1	32	428
	C	72	17	1	37
	D	91	379	15	1

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

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Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.21	3.17	0.3	A	279	418
B	0.36	3.74	0.6	A	485	727
C	0.15	4.84	0.2	A	117	175
D	0.30	3.18	0.5	A	446	669

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	229	57	311	1651	0.139	228	173	0.0	0.2	2.726	A
B	398	99	164	1666	0.239	396	375	0.0	0.3	3.053	A
C	96	24	433	1047	0.091	95	128	0.0	0.1	4.075	A
D	366	91	118	1790	0.204	365	410	0.0	0.3	2.722	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	273	68	372	1612	0.170	273	207	0.2	0.2	2.898	A
B	475	119	197	1646	0.288	474	448	0.3	0.4	3.312	A
C	114	29	518	1003	0.114	114	153	0.1	0.1	4.368	A
D	437	109	142	1775	0.246	437	490	0.3	0.4	2.898	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	335	84	455	1559	0.215	334	253	0.2	0.3	3.170	A
B	581	145	241	1618	0.359	581	549	0.4	0.6	3.739	A
C	140	35	635	942	0.148	140	187	0.1	0.2	4.837	A
D	535	134	174	1755	0.305	535	600	0.4	0.5	3.176	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	335	84	456	1558	0.215	335	253	0.3	0.3	3.170	A
B	581	145	241	1618	0.359	581	549	0.6	0.6	3.743	A
C	140	35	635	941	0.149	140	187	0.2	0.2	4.841	A
D	535	134	174	1755	0.305	535	601	0.5	0.5	3.179	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	273	68	373	1611	0.170	274	207	0.3	0.2	2.903	A
B	475	119	197	1646	0.288	475	449	0.6	0.4	3.319	A
C	114	29	519	1002	0.114	114	153	0.2	0.1	4.372	A
D	437	109	142	1775	0.246	437	492	0.5	0.4	2.903	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	229	57	312	1650	0.139	229	173	0.2	0.2	2.733	A
B	398	99	165	1666	0.239	398	376	0.4	0.3	3.061	A
C	96	24	435	1046	0.091	96	128	0.1	0.1	4.085	A
D	366	91	119	1790	0.204	366	411	0.4	0.3	2.726	A

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2029 With Construction, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.91	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2029 With Construction	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	304	100.000
B		ONE HOUR	✓	528	100.000
C		ONE HOUR	✓	265	100.000
D		ONE HOUR	✓	493	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	102	122	80
	B	67	1	32	428
	C	146	35	1	83
	D	91	379	22	1

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.22	3.22	0.3	A	279	418
B	0.36	3.76	0.6	A	485	727
C	0.31	5.97	0.5	A	243	365
D	0.32	3.38	0.5	A	452	679

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	229	57	329	1639	0.140	228	228	0.0	0.2	2.749	A
B	398	99	170	1663	0.239	396	388	0.0	0.3	3.061	A
C	200	50	433	1047	0.191	198	133	0.0	0.3	4.566	A
D	371	93	187	1747	0.212	370	444	0.0	0.3	2.815	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	273	68	394	1597	0.171	273	273	0.2	0.2	2.930	A
B	475	119	203	1642	0.289	474	464	0.3	0.4	3.324	A
C	238	60	518	1003	0.238	238	159	0.3	0.3	5.073	A
D	443	111	224	1724	0.257	443	532	0.3	0.4	3.029	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	335	84	483	1541	0.217	334	334	0.2	0.3	3.215	A
B	581	145	249	1613	0.360	581	569	0.4	0.6	3.757	A
C	292	73	635	942	0.310	291	195	0.3	0.5	5.960	A
D	543	136	275	1692	0.321	542	651	0.4	0.5	3.372	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	335	84	483	1541	0.217	335	335	0.3	0.3	3.216	A
B	581	145	249	1613	0.360	581	569	0.6	0.6	3.760	A
C	292	73	635	941	0.310	292	195	0.5	0.5	5.973	A
D	543	136	275	1692	0.321	543	652	0.5	0.5	3.375	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	273	68	395	1597	0.171	274	274	0.3	0.2	2.934	A
B	475	119	203	1642	0.289	475	465	0.6	0.4	3.331	A
C	238	60	519	1002	0.238	239	159	0.5	0.3	5.090	A
D	443	111	225	1723	0.257	444	533	0.5	0.4	3.035	A

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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	229	57	331	1638	0.140	229	229	0.2	0.2	2.754	A
B	398	99	170	1662	0.239	398	390	0.4	0.3	3.069	A
C	200	50	435	1046	0.191	200	133	0.3	0.3	4.587	A
D	371	93	188	1746	0.213	371	446	0.4	0.3	2.825	A

2033 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.59	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2033 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	312	100.000
B		ONE HOUR	✓	543	100.000
C		ONE HOUR	✓	131	100.000
D		ONE HOUR	✓	499	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	105	125	82
	B	69	1	33	440
	C	74	18	1	38
	D	93	390	15	1

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

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Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.22	3.22	0.3	A	286	429
B	0.37	3.82	0.6	A	498	747
C	0.15	4.92	0.2	A	120	180
D	0.31	3.23	0.5	A	458	687

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	235	59	320	1645	0.143	234	177	0.0	0.2	2.749	A
B	409	102	168	1664	0.246	407	386	0.0	0.3	3.086	A
C	99	25	445	1041	0.095	98	131	0.0	0.1	4.115	A
D	376	94	122	1788	0.210	375	421	0.0	0.3	2.743	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	280	70	383	1605	0.175	280	212	0.2	0.2	2.929	A
B	488	122	201	1643	0.297	488	462	0.3	0.5	3.359	A
C	118	29	533	995	0.118	118	156	0.1	0.1	4.423	A
D	449	112	146	1773	0.253	448	504	0.3	0.4	2.930	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	344	86	469	1550	0.222	343	260	0.2	0.3	3.215	A
B	598	149	246	1614	0.370	597	565	0.5	0.6	3.813	A
C	144	36	652	933	0.155	144	191	0.1	0.2	4.920	A
D	549	137	179	1752	0.314	549	617	0.4	0.5	3.223	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	344	86	469	1550	0.222	344	260	0.3	0.3	3.216	A
B	598	149	247	1614	0.370	598	566	0.6	0.6	3.816	A
C	144	36	653	932	0.155	144	192	0.2	0.2	4.924	A
D	549	137	179	1752	0.314	549	618	0.5	0.5	3.226	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	280	70	383	1604	0.175	281	212	0.3	0.2	2.931	A
B	488	122	202	1643	0.297	489	463	0.6	0.5	3.364	A
C	118	29	534	994	0.118	118	157	0.2	0.1	4.428	A
D	449	112	147	1772	0.253	449	505	0.5	0.4	2.935	A

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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	235	59	321	1644	0.143	235	178	0.2	0.2	2.753	A
B	409	102	169	1663	0.246	409	387	0.5	0.4	3.097	A
C	99	25	447	1040	0.095	99	131	0.1	0.1	4.125	A
D	376	94	123	1787	0.210	376	423	0.4	0.3	2.752	A

2038 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.67	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2038 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	323	100.000
B		ONE HOUR	✓	561	100.000
C		ONE HOUR	✓	136	100.000
D		ONE HOUR	✓	516	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	109	130	84
	B	71	1	34	455
	C	76	19	1	40
	D	96	403	16	1

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

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Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.23	3.28	0.3	A	296	445
B	0.38	3.91	0.7	A	515	772
C	0.16	5.03	0.2	A	125	187
D	0.32	3.29	0.5	A	473	710

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	243	61	331	1638	0.148	242	182	0.0	0.2	2.779	A
B	422	106	174	1660	0.254	421	399	0.0	0.4	3.127	A
C	102	26	459	1033	0.099	102	136	0.0	0.1	4.164	A
D	388	97	126	1785	0.218	387	435	0.0	0.3	2.773	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	290	73	396	1596	0.182	290	218	0.2	0.2	2.970	A
B	504	126	208	1638	0.308	504	478	0.4	0.5	3.418	A
C	122	31	550	986	0.124	122	163	0.1	0.2	4.492	A
D	464	116	151	1770	0.262	464	521	0.3	0.4	2.971	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	356	89	485	1540	0.231	355	267	0.2	0.3	3.276	A
B	618	154	255	1609	0.384	617	585	0.5	0.7	3.910	A
C	150	37	673	922	0.162	150	199	0.2	0.2	5.025	A
D	568	142	185	1749	0.325	568	638	0.4	0.5	3.284	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	356	89	486	1539	0.231	356	268	0.3	0.3	3.277	A
B	618	154	255	1609	0.384	618	586	0.7	0.7	3.915	A
C	150	37	674	921	0.163	150	199	0.2	0.2	5.029	A
D	568	142	185	1748	0.325	568	639	0.5	0.5	3.287	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	290	73	397	1596	0.182	291	219	0.3	0.2	2.975	A
B	504	126	209	1638	0.308	505	479	0.7	0.5	3.426	A
C	122	31	551	985	0.124	122	163	0.2	0.2	4.499	A
D	464	116	151	1769	0.262	464	522	0.5	0.4	2.976	A

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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	243	61	332	1637	0.149	243	183	0.2	0.2	2.784	A
B	422	106	175	1660	0.254	423	401	0.5	0.4	3.138	A
C	102	26	461	1032	0.099	103	136	0.2	0.1	4.174	A
D	388	97	127	1785	0.218	389	437	0.4	0.3	2.782	A

2048 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.83	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2048 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	344	100.000
B		ONE HOUR	✓	597	100.000
C		ONE HOUR	✓	144	100.000
D		ONE HOUR	✓	549	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	116	138	90
	B	76	1	36	484
	C	81	20	1	42
	D	102	429	17	1

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

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Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.25	3.40	0.4	A	316	473
B	0.41	4.12	0.8	A	548	822
C	0.18	5.25	0.2	A	132	198
D	0.35	3.41	0.6	A	504	756

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	259	65	352	1624	0.159	258	194	0.0	0.2	2.839	A
B	449	112	185	1653	0.272	448	425	0.0	0.4	3.216	A
C	108	27	489	1018	0.107	108	144	0.0	0.1	4.264	A
D	413	103	134	1780	0.232	412	463	0.0	0.3	2.834	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	309	77	421	1580	0.196	309	233	0.2	0.3	3.052	A
B	537	134	222	1630	0.329	536	508	0.4	0.5	3.546	A
C	129	32	586	967	0.134	129	172	0.1	0.2	4.631	A
D	494	123	161	1764	0.280	493	554	0.3	0.4	3.055	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	379	95	516	1520	0.249	378	285	0.3	0.4	3.399	A
B	657	164	272	1599	0.411	656	623	0.5	0.7	4.116	A
C	159	40	717	899	0.176	158	211	0.2	0.2	5.240	A
D	604	151	197	1741	0.347	604	678	0.4	0.6	3.410	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	379	95	516	1520	0.249	379	285	0.4	0.4	3.400	A
B	657	164	272	1598	0.411	657	623	0.7	0.8	4.123	A
C	159	40	718	898	0.177	159	211	0.2	0.2	5.246	A
D	604	151	197	1741	0.347	604	679	0.6	0.6	3.414	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	309	77	422	1580	0.196	310	233	0.4	0.3	3.057	A
B	537	134	222	1630	0.329	538	509	0.8	0.5	3.555	A
C	129	32	587	967	0.134	130	173	0.2	0.2	4.638	A
D	494	123	161	1763	0.280	494	556	0.6	0.4	3.061	A

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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	259	65	353	1624	0.160	259	195	0.3	0.2	2.844	A
B	449	112	186	1652	0.272	450	427	0.5	0.4	3.227	A
C	108	27	491	1017	0.107	109	145	0.2	0.1	4.276	A
D	413	103	135	1780	0.232	414	465	0.4	0.3	2.841	A

2033 With Operational Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.68	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D14	2033 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	313	100.000
B		ONE HOUR	✓	543	100.000
C		ONE HOUR	✓	172	100.000
D		ONE HOUR	✓	500	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	105	126	82
	B	69	1	33	440
	C	97	24	1	50
	D	93	390	16	1

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

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Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.22	3.23	0.3	A	287	431
B	0.37	3.82	0.6	A	498	747
C	0.20	5.22	0.3	A	158	237
D	0.32	3.28	0.5	A	459	688

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	236	59	325	1642	0.144	235	194	0.0	0.2	2.757	A
B	409	102	170	1663	0.246	407	390	0.0	0.3	3.089	A
C	129	32	445	1041	0.124	129	132	0.0	0.2	4.252	A
D	376	94	144	1774	0.212	375	430	0.0	0.3	2.771	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	281	70	389	1601	0.176	281	233	0.2	0.2	2.940	A
B	488	122	203	1642	0.297	488	467	0.3	0.5	3.363	A
C	155	39	533	995	0.155	154	158	0.2	0.2	4.615	A
D	449	112	172	1756	0.256	449	515	0.3	0.4	2.969	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	345	86	476	1545	0.223	344	285	0.2	0.3	3.231	A
B	598	149	249	1613	0.371	597	572	0.5	0.6	3.818	A
C	189	47	652	933	0.203	189	194	0.2	0.3	5.217	A
D	551	138	211	1732	0.318	550	630	0.4	0.5	3.280	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	345	86	477	1545	0.223	345	285	0.3	0.3	3.232	A
B	598	149	249	1613	0.371	598	573	0.6	0.6	3.822	A
C	189	47	653	932	0.203	189	194	0.3	0.3	5.224	A
D	551	138	211	1732	0.318	551	631	0.5	0.5	3.284	A

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17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	281	70	390	1600	0.176	282	233	0.3	0.2	2.942	A
B	488	122	203	1642	0.297	489	468	0.6	0.5	3.367	A
C	155	39	534	994	0.156	155	158	0.3	0.2	4.624	A
D	449	112	173	1756	0.256	450	516	0.5	0.4	2.974	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	236	59	326	1641	0.144	236	195	0.2	0.2	2.762	A
B	409	102	170	1662	0.246	409	392	0.5	0.4	3.099	A
C	129	32	447	1040	0.125	130	133	0.2	0.2	4.266	A
D	376	94	145	1774	0.212	377	432	0.4	0.3	2.780	A

2038 With Operational Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.76	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D15	2038 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	324	100.000
B		ONE HOUR	✓	561	100.000
C		ONE HOUR	✓	177	100.000
D		ONE HOUR	✓	516	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	109	131	84
	B	71	1	34	455
	C	100	24	1	52
	D	96	403	16	1

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

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Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.23	3.29	0.3	A	297	446
B	0.38	3.92	0.7	A	515	772
C	0.21	5.34	0.3	A	162	244
D	0.33	3.34	0.5	A	473	710

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	244	61	335	1635	0.149	243	200	0.0	0.2	2.786	A
B	422	106	175	1660	0.255	421	403	0.0	0.4	3.128	A
C	133	33	459	1033	0.129	133	137	0.0	0.2	4.305	A
D	388	97	148	1772	0.219	387	444	0.0	0.3	2.800	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	291	73	401	1593	0.183	291	240	0.2	0.2	2.979	A
B	504	126	209	1638	0.308	504	482	0.4	0.5	3.420	A
C	159	40	550	986	0.161	159	163	0.2	0.2	4.690	A
D	464	116	177	1753	0.265	464	532	0.3	0.4	3.008	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	357	89	491	1536	0.232	356	294	0.2	0.3	3.289	A
B	618	154	256	1608	0.384	617	591	0.5	0.7	3.915	A
C	195	49	673	922	0.211	195	200	0.2	0.3	5.335	A
D	568	142	217	1729	0.329	568	651	0.4	0.5	3.340	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	357	89	491	1536	0.232	357	294	0.3	0.3	3.290	A
B	618	154	257	1608	0.384	618	591	0.7	0.7	3.918	A
C	195	49	674	921	0.212	195	200	0.3	0.3	5.342	A
D	568	142	217	1729	0.329	568	652	0.5	0.5	3.343	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	291	73	401	1593	0.183	292	240	0.3	0.2	2.982	A
B	504	126	210	1638	0.308	505	483	0.7	0.5	3.428	A
C	159	40	551	985	0.161	159	164	0.3	0.2	4.701	A
D	464	116	177	1753	0.265	464	533	0.5	0.4	3.011	A

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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	244	61	336	1635	0.149	244	201	0.2	0.2	2.793	A
B	422	106	176	1659	0.255	423	405	0.5	0.4	3.139	A
C	133	33	461	1032	0.129	133	137	0.2	0.2	4.319	A
D	388	97	149	1771	0.219	389	446	0.4	0.3	2.809	A

2048 With Operational Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/N52 roundabout junction	Standard Roundabout		A, B, C, D	3.93	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D16	2048 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	345	100.000
B		ONE HOUR	✓	598	100.000
C		ONE HOUR	✓	185	100.000
D		ONE HOUR	✓	549	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A	B	C	D
From	A	0	116	139	90
	B	76	1	37	484
	C	105	25	1	54
	D	102	429	17	1

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	D
From	A	6	6	6	6
	B	6	6	6	6
	C	6	6	6	6
	D	6	6	6	6

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Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.25	3.41	0.4	A	317	475
B	0.41	4.13	0.8	A	549	823
C	0.23	5.59	0.3	A	170	255
D	0.35	3.47	0.6	A	504	756

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	260	65	356	1622	0.160	259	212	0.0	0.2	2.845	A
B	450	113	186	1652	0.272	449	428	0.0	0.4	3.219	A
C	139	35	489	1018	0.137	139	146	0.0	0.2	4.412	A
D	413	103	156	1767	0.234	412	472	0.0	0.3	2.862	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	310	78	426	1577	0.197	310	254	0.2	0.3	3.061	A
B	538	134	223	1629	0.330	537	513	0.4	0.5	3.550	A
C	166	42	586	967	0.172	166	174	0.2	0.2	4.842	A
D	494	123	187	1747	0.282	493	565	0.3	0.4	3.094	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	380	95	521	1517	0.250	379	311	0.3	0.4	3.412	A
B	658	165	273	1598	0.412	658	628	0.5	0.7	4.124	A
C	204	51	717	899	0.227	203	213	0.2	0.3	5.578	A
D	604	151	229	1721	0.351	604	692	0.4	0.6	3.471	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	380	95	522	1516	0.251	380	312	0.4	0.4	3.414	A
B	658	165	273	1598	0.412	658	629	0.7	0.8	4.131	A
C	204	51	718	898	0.227	204	214	0.3	0.3	5.587	A
D	604	151	229	1721	0.351	604	693	0.6	0.6	3.474	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	310	78	427	1577	0.197	311	255	0.4	0.3	3.067	A
B	538	134	223	1629	0.330	538	514	0.8	0.5	3.563	A
C	166	42	587	967	0.172	167	175	0.3	0.2	4.853	A
D	494	123	187	1747	0.283	494	566	0.6	0.4	3.698	A

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18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	260	65	357	1621	0.160	260	213	0.3	0.2	2.853	A
B	450	113	187	1652	0.273	451	430	0.5	0.4	3.233	A
C	139	35	491	1017	0.137	139	146	0.2	0.2	4.425	A
D	413	103	157	1766	0.234	414	474	0.4	0.3	2.872	A

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.5.2.1013
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»2029 Without Development, AM
»2029 With Construction, AM
»2033 Without Development, AM
»2038 Without Development, AM
»2048 Without Development, AM
»2033 With Operational Development, AM
»2038 With Operational Development, AM
»2048 With Operational Development, AM
»2029 Without Development, PM
»2029 With Construction, PM
»2033 Without Development, PM
»2038 Without Development, PM
»2048 Without Development, PM
»2033 With Operational Development, PM
»2038 With Operational Development, PM
»2048 With Operational Development, PM

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Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2029 Without Development									
Stream B-AC	D1	0.0	6.98	0.01	A	D9	0.0	0.00	0.00	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.29	0.01	A
	2029 With Construction									
Stream B-AC	D2	0.0	7.12	0.02	A	D10	0.0	0.00	0.00	A
Stream C-AB		0.0	0.00	0.00	A		0.0	4.89	0.01	A
	2033 Without Development									
Stream B-AC	D3	0.0	6.99	0.01	A	D11	0.0	0.00	0.00	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.28	0.01	A
	2038 Without Development									
Stream B-AC	D4	0.0	7.01	0.01	A	D12	0.0	0.00	0.00	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.27	0.01	A
	2048 Without Development									
Stream B-AC	D5	0.0	7.21	0.02	A	D13	0.0	0.00	0.00	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.25	0.01	A
	2033 With Operational Development									
Stream B-AC	D6	0.0	7.05	0.02	A	D14	0.0	0.00	0.00	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.15	0.01	A
	2038 With Operational Development									
Stream B-AC	D7	0.0	7.07	0.02	A	D15	0.0	0.00	0.00	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.14	0.01	A
	2048 With Operational Development									
Stream B-AC	D8	0.0	7.27	0.02	A	D16	0.0	0.00	0.00	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.12	0.01	A

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

File summary

File Description

Title	Admiral
Location	R446/L5125 Junction
Site number	
Date	08/07/2025
Version	EIAR
Status	Final
Identifier	
Client	Halston
Jobnumber	241206
Enumerator	TTRSA
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Construction	AM	ONE HOUR	08:00	09:30	15	✓
D3	2033 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D4	2038 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D5	2048 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D6	2033 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D7	2038 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D8	2048 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D9	2029 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D10	2029 With Construction	PM	ONE HOUR	16:45	18:15	15	✓
D11	2033 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D12	2038 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D13	2048 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D14	2033 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓
D15	2038 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓
D16	2048 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

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Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2029 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.20	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	R446 to/from West		Major
B	L5125 Local Road		Minor
C	R446 to/from East		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.30			215.0	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	3.30	65	50

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	539	0.093	0.234	0.147	0.335
B-C	675	0.098	0.247	-	-
C-B	698	0.255	0.255	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

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Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	140	100.000
B		ONE HOUR	✓	7	100.000
C		ONE HOUR	✓	94	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	2	138
	B	3	0	4
	C	94	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.01	6.98	0.0	A	6	10
C-AB	0.00	0.00	0.0	A	0	0
C-A					86	129
A-B					2	3
A-C					127	190

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	578	0.009	5	0.0	0.0	6.774	A
C-AB	0	0	672	0.000	0	0.0	0.0	0.000	A
C-A	71	18			71				
A-B	2	0.38			2				
A-C	104	26			104				

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08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	2	572	0.011	6	0.0	0.0	6.859	A
C-AB	0	0	666	0.000	0	0.0	0.0	0.000	A
C-A	85	21			85				
A-B	2	0.45			2				
A-C	124	31			124				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	564	0.014	8	0.0	0.0	6.980	A
C-AB	0	0	659	0.000	0	0.0	0.0	0.000	A
C-A	103	26			103				
A-B	2	0.55			2				
A-C	152	38			152				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	564	0.014	8	0.0	0.0	6.980	A
C-AB	0	0	659	0.000	0	0.0	0.0	0.000	A
C-A	103	26			103				
A-B	2	0.55			2				
A-C	152	38			152				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	2	572	0.011	6	0.0	0.0	6.862	A
C-AB	0	0	666	0.000	0	0.0	0.0	0.000	A
C-A	85	21			85				
A-B	2	0.45			2				
A-C	124	31			124				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	578	0.009	5	0.0	0.0	6.777	A
C-AB	0	0	672	0.000	0	0.0	0.0	0.000	A
C-A	71	18			71				
A-B	2	0.38			2				
A-C	104	26			104				

2029 With Construction, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.18	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2029 With Construction	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	202	100.000
B		ONE HOUR	✓	8	100.000
C		ONE HOUR	✓	108	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	2	200
	B	3	0	5
	C	108	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	7.12	0.0	A	7	11
C-AB	0.00	0.00	0.0	A	0	0
C-A					99	149
A-B					2	3
A-C					184	275

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	2	574	0.010	6	0.0	0.0	6.832	A
C-AB	0	0	660	0.000	0	0.0	0.0	0.000	A
C-A	81	20			81				
A-B	2	0.38			2				
A-C	151	38			151				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	566	0.013	7	0.0	0.0	6.949	A
C-AB	0	0	652	0.000	0	0.0	0.0	0.000	A
C-A	97	24			97				
A-B	2	0.45			2				
A-C	180	45			180				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	554	0.016	9	0.0	0.0	7.118	A
C-AB	0	0	642	0.000	0	0.0	0.0	0.000	A
C-A	119	30			119				
A-B	2	0.55			2				
A-C	220	55			220				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	554	0.016	9	0.0	0.0	7.118	A
C-AB	0	0	642	0.000	0	0.0	0.0	0.000	A
C-A	119	30			119				
A-B	2	0.55			2				
A-C	220	55			220				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	566	0.013	7	0.0	0.0	6.949	A
C-AB	0	0	652	0.000	0	0.0	0.0	0.000	A
C-A	97	24			97				
A-B	2	0.45			2				
A-C	180	45			180				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	2	574	0.010	6	0.0	0.0	6.833	A
C-AB	0	0	660	0.000	0	0.0	0.0	0.000	A
C-A	81	20			81				
A-B	2	0.38			2				
A-C	151	38			151				

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2033 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.20	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2033 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	143	100.000
B		ONE HOUR	✓	7	100.000
C		ONE HOUR	✓	97	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	2	141
	B	3	0	4
	C	97	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.01	6.99	0.0	A	6	10
C-AB	0.00	0.00	0.0	A	0	0
C-A					89	134
A-B					2	3
A-C					129	194

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	577	0.009	5	0.0	0.0	6.783	A
C-AB	0	0	671	0.000	0	0.0	0.0	0.000	A
C-A	73	18			73				
A-B	2	0.38			2				
A-C	106	27			106				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	2	571	0.011	6	0.0	0.0	6.870	A
C-AB	0	0	666	0.000	0	0.0	0.0	0.000	A
C-A	87	22			87				
A-B	2	0.45			2				
A-C	127	32			127				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	562	0.014	8	0.0	0.0	6.994	A
C-AB	0	0	658	0.000	0	0.0	0.0	0.000	A
C-A	107	27			107				
A-B	2	0.55			2				
A-C	155	39			155				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	562	0.014	8	0.0	0.0	6.994	A
C-AB	0	0	658	0.000	0	0.0	0.0	0.000	A
C-A	107	27			107				
A-B	2	0.55			2				
A-C	155	39			155				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	2	571	0.011	6	0.0	0.0	6.873	A
C-AB	0	0	666	0.000	0	0.0	0.0	0.000	A
C-A	87	22			87				
A-B	2	0.45			2				
A-C	127	32			127				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	577	0.009	5	0.0	0.0	6.785	A
C-AB	0	0	671	0.000	0	0.0	0.0	0.000	A
C-A	73	18			73				
A-B	2	0.38			2				
A-C	106	27			106				

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2038 Without Development, AM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.19	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2038 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	148	100.000
B		ONE HOUR	✓	7	100.000
C		ONE HOUR	✓	100	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	2	146
	B	3	0	4
	C	100	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.01	7.01	0.0	A	6	10
C-AB	0.00	0.00	0.0	A	0	0
C-A					92	138
A-B					2	3
A-C					134	201

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	576	0.009	5	0.0	0.0	6.796	A
C-AB	0	0	670	0.000	0	0.0	0.0	0.000	A
C-A	75	19			75				
A-B	2	0.38			2				
A-C	110	27			110				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	2	570	0.011	6	0.0	0.0	6.886	A
C-AB	0	0	665	0.000	0	0.0	0.0	0.000	A
C-A	90	22			90				
A-B	2	0.45			2				
A-C	131	33			131				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	561	0.014	8	0.0	0.0	7.015	A
C-AB	0	0	657	0.000	0	0.0	0.0	0.000	A
C-A	110	28			110				
A-B	2	0.55			2				
A-C	161	40			161				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	561	0.014	8	0.0	0.0	7.015	A
C-AB	0	0	657	0.000	0	0.0	0.0	0.000	A
C-A	110	28			110				
A-B	2	0.55			2				
A-C	161	40			161				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	2	570	0.011	6	0.0	0.0	6.886	A
C-AB	0	0	665	0.000	0	0.0	0.0	0.000	A
C-A	90	22			90				
A-B	2	0.45			2				
A-C	131	33			131				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	576	0.009	5	0.0	0.0	6.799	A
C-AB	0	0	670	0.000	0	0.0	0.0	0.000	A
C-A	75	19			75				
A-B	2	0.38			2				
A-C	110	27			110				

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2048 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.21	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2048 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	158	100.000
B		ONE HOUR	✓	8	100.000
C		ONE HOUR	✓	106	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	2	156
	B	4	0	4
	C	106	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	7.21	0.0	A	7	11
C-AB	0.00	0.00	0.0	A	0	0
C-A					97	146
A-B					2	3
A-C					143	215

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	2	564	0.011	6	0.0	0.0	6.959	A
C-AB	0	0	668	0.000	0	0.0	0.0	0.000	A
C-A	80	20			80				
A-B	2	0.38			2				
A-C	117	29			117				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	557	0.013	7	0.0	0.0	7.063	A
C-AB	0	0	662	0.000	0	0.0	0.0	0.000	A
C-A	95	24			95				
A-B	2	0.45			2				
A-C	140	35			140				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	547	0.016	9	0.0	0.0	7.212	A
C-AB	0	0	654	0.000	0	0.0	0.0	0.000	A
C-A	117	29			117				
A-B	2	0.55			2				
A-C	172	43			172				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	547	0.016	9	0.0	0.0	7.212	A
C-AB	0	0	654	0.000	0	0.0	0.0	0.000	A
C-A	117	29			117				
A-B	2	0.55			2				
A-C	172	43			172				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	557	0.013	7	0.0	0.0	7.063	A
C-AB	0	0	662	0.000	0	0.0	0.0	0.000	A
C-A	95	24			95				
A-B	2	0.45			2				
A-C	140	35			140				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	2	564	0.011	6	0.0	0.0	6.962	A
C-AB	0	0	668	0.000	0	0.0	0.0	0.000	A
C-A	80	20			80				
A-B	2	0.38			2				
A-C	117	29			117				

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2033 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.19	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2033 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	186	100.000
B		ONE HOUR	✓	8	100.000
C		ONE HOUR	✓	99	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	2	184
	B	3	0	5
	C	99	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	7.05	0.0	A	7	11
C-AB	0.00	0.00	0.0	A	0	0
C-A					91	136
A-B					2	3
A-C					169	253

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	2	577	0.010	6	0.0	0.0	6.791	A
C-AB	0	0	663	0.000	0	0.0	0.0	0.000	A
C-A	75	19			75				
A-B	2	0.38			2				
A-C	139	35			139				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	570	0.013	7	0.0	0.0	6.898	A
C-AB	0	0	656	0.000	0	0.0	0.0	0.000	A
C-A	89	22			89				
A-B	2	0.45			2				
A-C	165	41			165				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	559	0.016	9	0.0	0.0	7.052	A
C-AB	0	0	646	0.000	0	0.0	0.0	0.000	A
C-A	109	27			109				
A-B	2	0.55			2				
A-C	203	51			203				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	559	0.016	9	0.0	0.0	7.052	A
C-AB	0	0	646	0.000	0	0.0	0.0	0.000	A
C-A	109	27			109				
A-B	2	0.55			2				
A-C	203	51			203				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	570	0.013	7	0.0	0.0	6.901	A
C-AB	0	0	656	0.000	0	0.0	0.0	0.000	A
C-A	89	22			89				
A-B	2	0.45			2				
A-C	165	41			165				

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09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	2	577	0.010	6	0.0	0.0	6.794	A
C-AB	0	0	663	0.000	0	0.0	0.0	0.000	A
C-A	75	19			75				
A-B	2	0.38			2				
A-C	139	35			139				

2038 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.19	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2038 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	191	100.000
B		ONE HOUR	✓	8	100.000
C		ONE HOUR	✓	103	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	2	189
	B	3	0	5
	C	103	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	7.07	0.0	A	7	11
C-AB	0.00	0.00	0.0	A	0	0
C-A					95	142
A-B					2	3
A-C					173	260

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	2	576	0.010	6	0.0	0.0	6.805	A
C-AB	0	0	662	0.000	0	0.0	0.0	0.000	A
C-A	78	19			78				
A-B	2	0.38			2				
A-C	142	36			142				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	568	0.013	7	0.0	0.0	6.915	A
C-AB	0	0	655	0.000	0	0.0	0.0	0.000	A
C-A	93	23			93				
A-B	2	0.45			2				
A-C	170	42			170				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	557	0.016	9	0.0	0.0	7.074	A
C-AB	0	0	645	0.000	0	0.0	0.0	0.000	A
C-A	113	28			113				
A-B	2	0.55			2				
A-C	208	52			208				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	557	0.016	9	0.0	0.0	7.074	A
C-AB	0	0	645	0.000	0	0.0	0.0	0.000	A
C-A	113	28			113				
A-B	2	0.55			2				
A-C	208	52			208				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	568	0.013	7	0.0	0.0	6.918	A
C-AB	0	0	655	0.000	0	0.0	0.0	0.000	A
C-A	93	23			93				
A-B	2	0.45			2				
A-C	170	42			170				

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09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	6	2	576	0.010	6	0.0	0.0	6.808	A
C-AB	0	0	662	0.000	0	0.0	0.0	0.000	A
C-A	78	19			78				
A-B	2	0.38			2				
A-C	142	36			142				

2048 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.21	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2048 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	200	100.000
B		ONE HOUR	✓	9	100.000
C		ONE HOUR	✓	109	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	2	198
	B	4	0	5
	C	109	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	7.27	0.0	A	8	12
C-AB	0.00	0.00	0.0	A	0	0
C-A					100	150
A-B					2	3
A-C					182	273

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	564	0.012	7	0.0	0.0	6.966	A
C-AB	0	0	660	0.000	0	0.0	0.0	0.000	A
C-A	82	21			82				
A-B	2	0.38			2				
A-C	149	37			149				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	555	0.015	8	0.0	0.0	7.090	A
C-AB	0	0	653	0.000	0	0.0	0.0	0.000	A
C-A	98	24			98				
A-B	2	0.45			2				
A-C	178	44			178				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	544	0.018	10	0.0	0.0	7.270	A
C-AB	0	0	642	0.000	0	0.0	0.0	0.000	A
C-A	120	30			120				
A-B	2	0.55			2				
A-C	218	55			218				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	544	0.018	10	0.0	0.0	7.270	A
C-AB	0	0	642	0.000	0	0.0	0.0	0.000	A
C-A	120	30			120				
A-B	2	0.55			2				
A-C	218	55			218				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	555	0.015	8	0.0	0.0	7.091	A
C-AB	0	0	653	0.000	0	0.0	0.0	0.000	A
C-A	98	24			98				
A-B	2	0.45			2				
A-C	178	44			178				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	564	0.012	7	0.0	0.0	6.969	A
C-AB	0	0	660	0.000	0	0.0	0.0	0.000	A
C-A	82	21			82				
A-B	2	0.38			2				
A-C	149	37			149				

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2029 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.10	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2029 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	118	100.000
B		ONE HOUR	✓	2	100.000
C		ONE HOUR	✓	135	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	1	117
	B	1	0	1
	C	131	4	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.01	5.29	0.0	A	4	7
C-A					119	179
A-B					0.92	1
A-C					107	161

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	568	0.000	0	0.0	0.0	0.000	A
C-AB	3	0.87	737	0.005	3	0.0	0.0	5.287	A
C-A	98	25			98				
A-B	0.75	0.19			0.75				
A-C	88	22			88				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	562	0.000	0	0.0	0.0	0.000	A
C-AB	4	1	745	0.006	4	0.0	0.0	5.237	A
C-A	117	29			117				
A-B	0.90	0.22			0.90				
A-C	105	26			105				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	554	0.000	0	0.0	0.0	0.000	A
C-AB	5	1	756	0.007	5	0.0	0.0	5.168	A
C-A	143	36			143				
A-B	1	0.28			1				
A-C	129	32			129				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	554	0.000	0	0.0	0.0	0.000	A
C-AB	5	1	756	0.007	5	0.0	0.0	5.168	A
C-A	143	36			143				
A-B	1	0.28			1				
A-C	129	32			129				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	562	0.000	0	0.0	0.0	0.000	A
C-AB	4	1	745	0.006	4	0.0	0.0	5.237	A
C-A	117	29			117				
A-B	0.90	0.22			0.90				
A-C	105	26			105				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	568	0.000	0	0.0	0.0	0.000	A
C-AB	3	0.87	737	0.005	3	0.0	0.0	5.289	A
C-A	98	25			98				
A-B	0.75	0.19			0.75				
A-C	88	22			88				

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.12	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2029 With Construction	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	125	100.000
B		ONE HOUR	✓	2	100.000
C		ONE HOUR	✓	277	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	1	124
	B	1	0	1
	C	270	7	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.01	4.89	0.0	A	9	14
C-A					245	367
A-B					0.92	1
A-C					114	171

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	557	0.000	0	0.0	0.0	0.000	A
C-AB	7	2	802	0.009	7	0.0	0.0	4.884	A
C-A	201	50			201				
A-B	0.75	0.19			0.75				
A-C	93	23			93				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	548	0.000	0	0.0	0.0	0.000	A
C-AB	9	2	822	0.011	9	0.0	0.0	4.771	A
C-A	240	60			240				
A-B	0.90	0.22			0.90				
A-C	111	28			111				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	536	0.000	0	0.0	0.0	0.000	A
C-AB	12	3	851	0.014	12	0.0	0.0	4.623	A
C-A	293	73			293				
A-B	1	0.28			1				
A-C	137	34			137				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	536	0.000	0	0.0	0.0	0.000	A
C-AB	12	3	851	0.014	12	0.0	0.0	4.624	A
C-A	293	73			293				
A-B	1	0.28			1				
A-C	137	34			137				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	548	0.000	0	0.0	0.0	0.000	A
C-AB	9	2	822	0.011	9	0.0	0.0	4.773	A
C-A	240	60			240				
A-B	0.90	0.22			0.90				
A-C	111	28			111				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	557	0.000	0	0.0	0.0	0.000	A
C-AB	7	2	802	0.009	7	0.0	0.0	4.886	A
C-A	201	50			201				
A-B	0.75	0.19			0.75				
A-C	93	23			93				

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.10	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2033 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	121	100.000
B		ONE HOUR	✓	2	100.000
C		ONE HOUR	✓	139	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	1	120
	B	1	0	1
	C	135	4	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.01	5.28	0.0	A	4	7
C-A					123	185
A-B					0.92	1
A-C					110	165

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	568	0.000	0	0.0	0.0	0.000	A
C-AB	3	0.87	739	0.005	3	0.0	0.0	5.277	A
C-A	101	25			101				
A-B	0.75	0.19			0.75				
A-C	90	23			90				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	561	0.000	0	0.0	0.0	0.000	A
C-AB	4	1	747	0.006	4	0.0	0.0	5.225	A
C-A	121	30			121				
A-B	0.90	0.22			0.90				
A-C	108	27			108				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	553	0.000	0	0.0	0.0	0.000	A
C-AB	5	1	758	0.007	5	0.0	0.0	5.155	A
C-A	148	37			148				
A-B	1	0.28			1				
A-C	132	33			132				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	553	0.000	0	0.0	0.0	0.000	A
C-AB	5	1	758	0.007	5	0.0	0.0	5.155	A
C-A	148	37			148				
A-B	1	0.28			1				
A-C	132	33			132				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	561	0.000	0	0.0	0.0	0.000	A
C-AB	4	1	747	0.006	4	0.0	0.0	5.225	A
C-A	121	30			121				
A-B	0.90	0.22			0.90				
A-C	108	27			108				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	568	0.000	0	0.0	0.0	0.000	A
C-AB	3	0.87	739	0.005	3	0.0	0.0	5.277	A
C-A	101	25			101				
A-B	0.75	0.19			0.75				
A-C	90	23			90				

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2038 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.10	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2038 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	125	100.000
B		ONE HOUR	✓	2	100.000
C		ONE HOUR	✓	144	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	1	124
	B	1	0	1
	C	140	4	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.01	5.27	0.0	A	4	7
C-A					128	192
A-B					0.92	1
A-C					114	171

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	566	0.000	0	0.0	0.0	0.000	A
C-AB	4	0.88	740	0.005	3	0.0	0.0	5.266	A
C-A	105	26			105				
A-B	0.75	0.19			0.75				
A-C	93	23			93				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	560	0.000	0	0.0	0.0	0.000	A
C-AB	4	1	749	0.006	4	0.0	0.0	5.212	A
C-A	125	31			125				
A-B	0.90	0.22			0.90				
A-C	111	28			111				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	551	0.000	0	0.0	0.0	0.000	A
C-AB	6	1	761	0.007	6	0.0	0.0	5.138	A
C-A	153	38			153				
A-B	1	0.28			1				
A-C	137	34			137				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	551	0.000	0	0.0	0.0	0.000	A
C-AB	6	1	761	0.007	6	0.0	0.0	5.138	A
C-A	153	38			153				
A-B	1	0.28			1				
A-C	137	34			137				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	560	0.000	0	0.0	0.0	0.000	A
C-AB	4	1	749	0.006	4	0.0	0.0	5.212	A
C-A	125	31			125				
A-B	0.90	0.22			0.90				
A-C	111	28			111				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	566	0.000	0	0.0	0.0	0.000	A
C-AB	4	0.88	740	0.005	4	0.0	0.0	5.268	A
C-A	105	26			105				
A-B	0.75	0.19			0.75				
A-C	93	23			93				

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2048 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.09	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2048 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	133	100.000
B		ONE HOUR	✓	2	100.000
C		ONE HOUR	✓	153	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	1	132
	B	1	0	1
	C	149	4	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.01	5.25	0.0	A	5	7
C-A					136	204
A-B					0.92	1
A-C					121	182

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	564	0.000	0	0.0	0.0	0.000	A
C-AB	4	0.89	743	0.005	4	0.0	0.0	5.246	A
C-A	112	28			112				
A-B	0.75	0.19			0.75				
A-C	99	25			99				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	557	0.000	0	0.0	0.0	0.000	A
C-AB	4	1	752	0.006	4	0.0	0.0	5.189	A
C-A	133	33			133				
A-B	0.90	0.22			0.90				
A-C	119	30			119				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	548	0.000	0	0.0	0.0	0.000	A
C-AB	6	1	765	0.007	6	0.0	0.0	5.110	A
C-A	163	41			163				
A-B	1	0.28			1				
A-C	145	36			145				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	548	0.000	0	0.0	0.0	0.000	A
C-AB	6	1	765	0.007	6	0.0	0.0	5.110	A
C-A	163	41			163				
A-B	1	0.28			1				
A-C	145	36			145				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	557	0.000	0	0.0	0.0	0.000	A
C-AB	4	1	752	0.006	4	0.0	0.0	5.191	A
C-A	133	33			133				
A-B	0.90	0.22			0.90				
A-C	119	30			119				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	564	0.000	0	0.0	0.0	0.000	A
C-AB	4	0.89	743	0.005	4	0.0	0.0	5.248	A
C-A	112	28			112				
A-B	0.75	0.19			0.75				
A-C	99	25			99				

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2033 With Operational Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.11	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D14	2033 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	122	100.000
B		ONE HOUR	✓	2	100.000
C		ONE HOUR	✓	181	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	1	121
	B	1	0	1
	C	176	5	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.01	5.15	0.0	A	6	9
C-A					160	240
A-B					0.92	1
A-C					111	167

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	564	0.000	0	0.0	0.0	0.000	A
C-AB	5	1	758	0.006	5	0.0	0.0	5.151	A
C-A	132	33			132				
A-B	0.75	0.19			0.75				
A-C	91	23			91				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	557	0.000	0	0.0	0.0	0.000	A
C-AB	6	1	770	0.007	6	0.0	0.0	5.078	A
C-A	157	39			157				
A-B	0.90	0.22			0.90				
A-C	109	27			109				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	548	0.000	0	0.0	0.0	0.000	A
C-AB	7	2	786	0.009	7	0.0	0.0	4.980	A
C-A	192	48			192				
A-B	1	0.28			1				
A-C	133	33			133				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	548	0.000	0	0.0	0.0	0.000	A
C-AB	7	2	786	0.009	7	0.0	0.0	4.982	A
C-A	192	48			192				
A-B	1	0.28			1				
A-C	133	33			133				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	557	0.000	0	0.0	0.0	0.000	A
C-AB	6	1	770	0.007	6	0.0	0.0	5.078	A
C-A	157	39			157				
A-B	0.90	0.22			0.90				
A-C	109	27			109				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	564	0.000	0	0.0	0.0	0.000	A
C-AB	5	1	758	0.006	5	0.0	0.0	5.153	A
C-A	132	33			132				
A-B	0.75	0.19			0.75				
A-C	91	23			91				

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2038 With Operational Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.11	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D15	2038 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	127	100.000
B		ONE HOUR	✓	2	100.000
C		ONE HOUR	✓	186	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	1	126
	B	1	0	1
	C	181	5	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.01	5.14	0.0	A	6	9
C-A					165	247
A-B					0.92	1
A-C					116	173

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	563	0.000	0	0.0	0.0	0.000	A
C-AB	5	1	759	0.006	5	0.0	0.0	5.141	A
C-A	135	34			135				
A-B	0.75	0.19			0.75				
A-C	95	24			95				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	556	0.000	0	0.0	0.0	0.000	A
C-AB	6	1	772	0.007	6	0.0	0.0	5.066	A
C-A	162	40			162				
A-B	0.90	0.22			0.90				
A-C	113	28			113				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	546	0.000	0	0.0	0.0	0.000	A
C-AB	7	2	789	0.009	7	0.0	0.0	4.966	A
C-A	197	49			197				
A-B	1	0.28			1				
A-C	139	35			139				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	546	0.000	0	0.0	0.0	0.000	A
C-AB	7	2	789	0.009	7	0.0	0.0	4.968	A
C-A	197	49			197				
A-B	1	0.28			1				
A-C	139	35			139				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	556	0.000	0	0.0	0.0	0.000	A
C-AB	6	1	772	0.007	6	0.0	0.0	5.067	A
C-A	162	40			162				
A-B	0.90	0.22			0.90				
A-C	113	28			113				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	563	0.000	0	0.0	0.0	0.000	A
C-AB	5	1	759	0.006	5	0.0	0.0	5.141	A
C-A	135	34			135				
A-B	0.75	0.19			0.75				
A-C	95	24			95				

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2048 With Operational Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		0.10	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D16	2048 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	135	100.000
B		ONE HOUR	✓	2	100.000
C		ONE HOUR	✓	195	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	1	134
	B	1	0	1
	C	190	5	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.01	5.12	0.0	A	6	9
C-A					173	259
A-B					0.92	1
A-C					123	184

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	561	0.000	0	0.0	0.0	0.000	A
C-AB	5	1	762	0.006	5	0.0	0.0	5.122	A
C-A	142	36			142				
A-B	0.75	0.19			0.75				
A-C	101	25			101				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	553	0.000	0	0.0	0.0	0.000	A
C-AB	6	1	775	0.007	6	0.0	0.0	5.044	A
C-A	170	42			170				
A-B	0.90	0.22			0.90				
A-C	120	30			120				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	543	0.000	0	0.0	0.0	0.000	A
C-AB	7	2	793	0.009	7	0.0	0.0	4.940	A
C-A	207	52			207				
A-B	1	0.28			1				
A-C	148	37			148				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	543	0.000	0	0.0	0.0	0.000	A
C-AB	7	2	793	0.009	7	0.0	0.0	4.942	A
C-A	207	52			207				
A-B	1	0.28			1				
A-C	148	37			148				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	553	0.000	0	0.0	0.0	0.000	A
C-AB	6	1	775	0.007	6	0.0	0.0	5.046	A
C-A	170	42			170				
A-B	0.90	0.22			0.90				
A-C	120	30			120				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	561	0.000	0	0.0	0.0	0.000	A
C-AB	5	1	762	0.006	5	0.0	0.0	5.122	A
C-A	142	36			142				
A-B	0.75	0.19			0.75				
A-C	101	25			101				

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Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.5.2.1013
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Filename: Site_Access.j9
Path: \\192.168.1.33
\ttrsa\projects\T241206_Westmeath_Admiral_Datacentre_Solar_Farm_EIAR_MMP_S1_RSA\eiar_chapter\modelling\Site_Access
Report generation date: 08/07/2025 11:20:38

»2029 Without Development, AM
»2029 With Construction, AM
»2033 Without Development, AM
»2038 Without Development, AM
»2048 Without Development, AM
»2033 With Operational Development, AM
»2038 With Operational Development, AM
»2048 With Operational Development, AM
»2029 Without Development, PM
»2029 With Construction, PM
»2033 Without Development, PM
»2038 Without Development, PM
»2048 Without Development, PM
»2033 With Operational Development, PM
»2038 With Operational Development, PM
»2048 With Operational Development, PM

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Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2029 Without Development									
Stream B-AC	D1	0.0	0.00	0.00	A	D9	0.0	6.23	0.04	A
Stream C-AB		0.0	5.39	0.03	A		0.0	0.00	0.00	A
	2029 With Construction									
Stream B-AC	D2	0.0	6.31	0.04	A	D10	0.7	10.20	0.41	B
Stream C-AB		0.2	6.11	0.15	A		0.0	5.35	0.01	A
	2033 Without Development									
Stream B-AC	D3	0.0	6.28	0.01	A	D11	0.0	6.25	0.04	A
Stream C-AB		0.1	5.39	0.04	A		0.0	0.00	0.00	A
	2038 Without Development									
Stream B-AC	D4	0.0	6.30	0.01	A	D12	0.0	6.26	0.04	A
Stream C-AB		0.1	5.39	0.04	A		0.0	0.00	0.00	A
	2048 Without Development									
Stream B-AC	D5	0.0	6.33	0.01	A	D13	0.0	6.34	0.04	A
Stream C-AB		0.1	5.37	0.04	A		0.0	0.00	0.00	A
	2033 With Operational Development									
Stream B-AC	D6	0.0	6.48	0.02	A	D14	0.2	7.11	0.15	A
Stream C-AB		0.2	5.84	0.12	A		0.0	5.31	0.00	A
	2038 With Operational Development									
Stream B-AC	D7	0.0	6.50	0.02	A	D15	0.2	7.14	0.15	A
Stream C-AB		0.2	5.83	0.12	A		0.0	5.31	0.00	A
	2048 With Operational Development									
Stream B-AC	D8	0.0	6.45	0.02	A	D16	0.2	7.18	0.16	A
Stream C-AB		0.2	5.83	0.12	A		0.0	5.29	0.00	A

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

File summary

File Description

Title	Admiral
Location	R446/Site Access Junction
Site number	
Date	08/07/2025
Version	EIAR
Status	Final
Identifier	
Client	Halston
Jobnumber	241206
Enumerator	TTRSA
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Construction	AM	ONE HOUR	08:00	09:30	15	✓
D3	2033 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D4	2038 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D5	2048 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D6	2033 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D7	2038 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D8	2048 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D9	2029 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D10	2029 With Construction	PM	ONE HOUR	16:45	18:15	15	✓
D11	2033 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D12	2038 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D13	2048 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D14	2033 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓
D15	2038 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓
D16	2048 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

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Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2029 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		0.50	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	R446 to/from East		Major
B	Development Site Access		Minor
C	R446 to/from West		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.30			215.0	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.50	75	52

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	607	0.104	0.264	0.166	0.377
B-C	755	0.109	0.276	-	-
C-B	698	0.255	0.255	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

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Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	99	100.000
B		ONE HOUR	✓	4	100.000
C		ONE HOUR	✓	141	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	7	92
	B	2	0	2
	C	122	19	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.00	0.00	0.0	A	0	0
C-AB	0.03	5.39	0.0	A	21	31
C-A					109	163
A-B					6	10
A-C					84	127

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	641	0.000	0	0.0	0.0	0.000	A
C-AB	16	4	737	0.022	16	0.0	0.0	5.387	A
C-A	90	22			90				
A-B	5	1			5				
A-C	69	17			69				

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08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	634	0.000	0	0.0	0.0	0.000	A
C-AB	20	5	744	0.027	20	0.0	0.0	5.358	A
C-A	107	27			107				
A-B	6	2			6				
A-C	83	21			83				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	626	0.000	0	0.0	0.0	0.000	A
C-AB	25	6	755	0.034	25	0.0	0.0	5.319	A
C-A	130	32			130				
A-B	8	2			8				
A-C	101	25			101				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	626	0.000	0	0.0	0.0	0.000	A
C-AB	25	6	755	0.034	25	0.0	0.0	5.322	A
C-A	130	32			130				
A-B	8	2			8				
A-C	101	25			101				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	634	0.000	0	0.0	0.0	0.000	A
C-AB	20	5	744	0.027	20	0.0	0.0	5.361	A
C-A	107	27			107				
A-B	6	2			6				
A-C	83	21			83				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	0	0	641	0.000	0	0.0	0.0	0.000	A
C-AB	16	4	737	0.022	16	0.0	0.0	5.388	A
C-A	90	22			90				
A-B	5	1			5				
A-C	69	17			69				

2029 With Construction, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		2.14	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2029 With Construction	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	127	100.000
B		ONE HOUR	✓	25	100.000
C		ONE HOUR	✓	206	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	35	92
	B	8	0	17
	C	122	84	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.04	6.31	0.0	A	23	34
C-AB	0.15	6.11	0.2	A	91	137
C-A					98	147
A-B					32	48
A-C					84	127

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	19	5	661	0.028	19	0.0	0.0	6.040	A
C-AB	72	18	732	0.099	72	0.0	0.1	5.879	A
C-A	83	21			83				
A-B	26	7			26				
A-C	69	17			69				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	6	653	0.034	22	0.0	0.0	6.151	A
C-AB	89	22	738	0.120	89	0.1	0.2	5.974	A
C-A	96	24			96				
A-B	31	8			31				
A-C	83	21			83				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	642	0.043	27	0.0	0.0	6.312	A
C-AB	113	28	748	0.151	113	0.2	0.2	6.112	A
C-A	114	28			114				
A-B	39	10			39				
A-C	101	25			101				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	642	0.043	28	0.0	0.0	6.312	A
C-AB	113	28	748	0.151	113	0.2	0.2	6.115	A
C-A	114	28			114				
A-B	39	10			39				
A-C	101	25			101				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	6	653	0.034	23	0.0	0.0	6.155	A
C-AB	89	22	738	0.120	89	0.2	0.2	5.982	A
C-A	96	24			96				
A-B	31	8			31				
A-C	83	21			83				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	19	5	661	0.028	19	0.0	0.0	6.044	A
C-AB	72	18	732	0.099	73	0.2	0.1	5.890	A
C-A	83	21			83				
A-B	26	7			26				
A-C	69	17			69				

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2033 Without Development, AM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		0.66	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2033 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	101	100.000
B		ONE HOUR	✓	6	100.000
C		ONE HOUR	✓	145	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	7	94
	B	3	0	3
	C	125	20	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.01	6.28	0.0	A	6	8
C-AB	0.04	5.39	0.1	A	22	33
C-A					111	167
A-B					6	10
A-C					86	129

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	640	0.007	4	0.0	0.0	6.106	A
C-AB	17	4	738	0.023	17	0.0	0.0	5.386	A
C-A	92	23			92				
A-B	5	1			5				
A-C	71	18			71				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	633	0.009	5	0.0	0.0	6.178	A
C-AB	21	5	746	0.028	21	0.0	0.0	5.357	A
C-A	109	27			109				
A-B	6	2			6				
A-C	85	21			85				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	624	0.011	7	0.0	0.0	6.281	A
C-AB	27	7	756	0.036	27	0.0	0.1	5.318	A
C-A	133	33			133				
A-B	8	2			8				
A-C	103	26			103				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	624	0.011	7	0.0	0.0	6.281	A
C-AB	27	7	756	0.036	27	0.1	0.1	5.321	A
C-A	133	33			133				
A-B	8	2			8				
A-C	103	26			103				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	633	0.009	5	0.0	0.0	6.179	A
C-AB	21	5	746	0.028	21	0.1	0.0	5.358	A
C-A	109	27			109				
A-B	6	2			6				
A-C	85	21			85				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	640	0.007	5	0.0	0.0	6.109	A
C-AB	17	4	738	0.023	17	0.0	0.0	5.389	A
C-A	92	23			92				
A-B	5	1			5				
A-C	71	18			71				

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2038 Without Development, AM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		0.67	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2038 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	104	100.000
B		ONE HOUR	✓	6	100.000
C		ONE HOUR	✓	150	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	7	97
	B	3	0	3
	C	129	21	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.01	6.30	0.0	A	6	8
C-AB	0.04	5.39	0.1	A	23	35
C-A					115	172
A-B					6	10
A-C					89	134

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	639	0.007	4	0.0	0.0	6.117	A
C-AB	18	5	739	0.025	18	0.0	0.0	5.383	A
C-A	95	24			95				
A-B	5	1			5				
A-C	73	18			73				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	632	0.009	5	0.0	0.0	6.191	A
C-AB	22	6	747	0.030	22	0.0	0.0	5.354	A
C-A	112	28			112				
A-B	6	2			6				
A-C	87	22			87				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	623	0.011	7	0.0	0.0	6.298	A
C-AB	28	7	758	0.038	28	0.0	0.1	5.315	A
C-A	137	34			137				
A-B	8	2			8				
A-C	107	27			107				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	623	0.011	7	0.0	0.0	6.298	A
C-AB	28	7	758	0.038	28	0.1	0.1	5.318	A
C-A	137	34			137				
A-B	8	2			8				
A-C	107	27			107				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	632	0.009	5	0.0	0.0	6.194	A
C-AB	22	6	747	0.030	22	0.1	0.0	5.355	A
C-A	112	28			112				
A-B	6	2			6				
A-C	87	22			87				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	639	0.007	5	0.0	0.0	6.120	A
C-AB	18	5	739	0.025	18	0.0	0.0	5.386	A
C-A	95	24			95				
A-B	5	1			5				
A-C	73	18			73				

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2048 Without Development, AM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		0.65	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2048 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	112	100.000
B		ONE HOUR	✓	6	100.000
C		ONE HOUR	✓	160	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	8	104
	B	3	0	3
	C	138	22	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

RECEIVED: 08/07/2025

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.01	6.33	0.0	A	6	8
C-AB	0.04	5.37	0.1	A	24	37
C-A					122	184
A-B					7	11
A-C					95	143

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	636	0.007	4	0.0	0.0	6.140	A
C-AB	19	5	742	0.026	19	0.0	0.0	5.370	A
C-A	101	25			101				
A-B	6	2			6				
A-C	78	20			78				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	629	0.009	5	0.0	0.0	6.220	A
C-AB	24	6	750	0.032	24	0.0	0.0	5.339	A
C-A	120	30			120				
A-B	7	2			7				
A-C	93	23			93				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	619	0.011	7	0.0	0.0	6.334	A
C-AB	30	8	763	0.040	30	0.0	0.1	5.300	A
C-A	146	36			146				
A-B	9	2			9				
A-C	115	29			115				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	619	0.011	7	0.0	0.0	6.334	A
C-AB	30	8	763	0.040	30	0.1	0.1	5.299	A
C-A	146	36			146				
A-B	9	2			9				
A-C	115	29			115				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	629	0.009	5	0.0	0.0	6.221	A
C-AB	24	6	750	0.032	24	0.1	0.0	5.342	A
C-A	120	30			120				
A-B	7	2			7				
A-C	93	23			93				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	5	1	636	0.007	5	0.0	0.0	6.143	A
C-AB	19	5	742	0.026	19	0.0	0.0	5.371	A
C-A	101	25			101				
A-B	6	2			6				
A-C	78	20			78				

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2033 With Operational Development, AM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		1.59	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2033 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	122	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	189	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	28	94
	B	5	0	5
	C	125	64	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	6.48	0.0	A	9	14
C-AB	0.12	5.84	0.2	A	70	105
C-A					104	155
A-B					26	39
A-C					86	129

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	630	0.012	7	0.0	0.0	6.231	A
C-AB	55	14	734	0.075	55	0.0	0.1	5.714	A
C-A	87	22			87				
A-B	21	5			21				
A-C	71	18			71				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	622	0.014	9	0.0	0.0	6.333	A
C-AB	68	17	741	0.092	68	0.1	0.1	5.764	A
C-A	102	26			102				
A-B	25	6			25				
A-C	85	21			85				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	610	0.018	11	0.0	0.0	6.480	A
C-AB	86	22	751	0.115	86	0.1	0.2	5.837	A
C-A	122	30			122				
A-B	31	8			31				
A-C	103	26			103				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	610	0.018	11	0.0	0.0	6.481	A
C-AB	86	22	751	0.115	86	0.2	0.2	5.842	A
C-A	122	30			122				
A-B	31	8			31				
A-C	103	26			103				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	622	0.014	9	0.0	0.0	6.334	A
C-AB	68	17	741	0.092	68	0.2	0.1	5.768	A
C-A	102	25			102				
A-B	25	6			25				
A-C	85	21			85				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	630	0.012	8	0.0	0.0	6.235	A
C-AB	55	14	734	0.075	55	0.1	0.1	5.723	A
C-A	87	22			87				
A-B	21	5			21				
A-C	71	18			71				

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2038 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		1.55	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2038 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	126	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	193	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	29	97
	B	5	0	5
	C	129	64	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	6.50	0.0	A	9	14
C-AB	0.12	5.83	0.2	A	70	105
C-A					107	160
A-B					27	40
A-C					89	134

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	629	0.012	7	0.0	0.0	6.242	A
C-AB	56	14	735	0.076	55	0.0	0.1	5.706	A
C-A	90	22			90				
A-B	22	5			22				
A-C	73	18			73				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	620	0.014	9	0.0	0.0	6.346	A
C-AB	68	17	742	0.092	68	0.1	0.1	5.755	A
C-A	105	26			105				
A-B	26	7			26				
A-C	87	22			87				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	608	0.018	11	0.0	0.0	6.497	A
C-AB	87	22	753	0.116	87	0.1	0.2	5.827	A
C-A	126	31			126				
A-B	32	8			32				
A-C	107	27			107				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	608	0.018	11	0.0	0.0	6.497	A
C-AB	87	22	753	0.116	87	0.2	0.2	5.832	A
C-A	126	31			126				
A-B	32	8			32				
A-C	107	27			107				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	620	0.014	9	0.0	0.0	6.347	A
C-AB	68	17	742	0.092	68	0.2	0.1	5.762	A
C-A	105	26			105				
A-B	26	7			26				
A-C	87	22			87				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	629	0.012	8	0.0	0.0	6.245	A
C-AB	56	14	735	0.076	56	0.1	0.1	5.716	A
C-A	90	22			90				
A-B	22	5			22				
A-C	73	18			73				

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2048 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		1.54	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2048 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	133	100.000
B		ONE HOUR	✓	11	100.000
C		ONE HOUR	✓	204	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	29	104
	B	5	0	6
	C	138	66	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	6.45	0.0	A	10	15
C-AB	0.12	5.83	0.2	A	73	110
C-A					114	171
A-B					27	40
A-C					95	143

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	635	0.013	8	0.0	0.0	6.192	A
C-AB	58	14	738	0.078	57	0.0	0.1	5.700	A
C-A	96	24			96				
A-B	22	5			22				
A-C	78	20			78				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	626	0.016	10	0.0	0.0	6.299	A
C-AB	71	18	746	0.096	71	0.1	0.1	5.750	A
C-A	112	28			112				
A-B	26	7			26				
A-C	93	23			93				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	3	613	0.020	12	0.0	0.0	6.453	A
C-AB	91	23	757	0.120	91	0.1	0.2	5.824	A
C-A	134	33			134				
A-B	32	8			32				
A-C	115	29			115				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	3	613	0.020	12	0.0	0.0	6.453	A
C-AB	91	23	757	0.120	91	0.2	0.2	5.826	A
C-A	134	33			134				
A-B	32	8			32				
A-C	115	29			115				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	626	0.016	10	0.0	0.0	6.300	A
C-AB	71	18	746	0.096	71	0.2	0.1	5.755	A
C-A	112	28			112				
A-B	26	7			26				
A-C	93	23			93				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	635	0.013	8	0.0	0.0	6.196	A
C-AB	58	14	738	0.078	58	0.1	0.1	5.708	A
C-A	96	24			96				
A-B	22	5			22				
A-C	78	20			78				

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2029 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		0.53	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2029 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	121	100.000
B		ONE HOUR	✓	22	100.000
C		ONE HOUR	✓	118	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	121
	B	8	0	14
	C	118	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.04	6.23	0.0	A	20	30
C-AB	0.00	0.00	0.0	A	0	0
C-A					108	162
A-B					0	0
A-C					111	167

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	662	0.025	16	0.0	0.0	6.015	A
C-AB	0	0	675	0.000	0	0.0	0.0	0.000	A
C-A	89	22			89				
A-B	0	0			0				
A-C	91	23			91				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	655	0.030	20	0.0	0.0	6.105	A
C-AB	0	0	671	0.000	0	0.0	0.0	0.000	A
C-A	106	27			106				
A-B	0	0			0				
A-C	109	27			109				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	24	6	647	0.037	24	0.0	0.0	6.234	A
C-AB	0	0	664	0.000	0	0.0	0.0	0.000	A
C-A	130	32			130				
A-B	0	0			0				
A-C	133	33			133				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	24	6	647	0.037	24	0.0	0.0	6.234	A
C-AB	0	0	664	0.000	0	0.0	0.0	0.000	A
C-A	130	32			130				
A-B	0	0			0				
A-C	133	33			133				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	655	0.030	20	0.0	0.0	6.108	A
C-AB	0	0	671	0.000	0	0.0	0.0	0.000	A
C-A	106	27			106				
A-B	0	0			0				
A-C	109	27			109				

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18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	662	0.025	17	0.0	0.0	6.015	A
C-AB	0	0	675	0.000	0	0.0	0.0	0.000	A
C-A	89	22			89				
A-B	0	0			0				
A-C	91	23			91				

2029 With Construction, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		5.15	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2029 With Construction	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	121	100.000
B		ONE HOUR	✓	242	100.000
C		ONE HOUR	✓	125	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	121
	B	86	0	156
	C	118	7	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.41	10.20	0.7	B	222	333
C-AB	0.01	5.35	0.0	A	8	11
C-A					107	161
A-B					0	0
A-C					111	167

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	182	46	662	0.275	181	0.0	0.4	8.034	A
C-AB	6	1	731	0.008	6	0.0	0.0	5.354	A
C-A	88	22			88				
A-B	0	0			0				
A-C	91	23			91				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	218	54	656	0.332	217	0.4	0.5	8.839	A
C-AB	7	2	737	0.010	7	0.0	0.0	5.316	A
C-A	105	26			105				
A-B	0	0			0				
A-C	109	27			109				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	266	67	647	0.412	266	0.5	0.7	10.159	B
C-AB	9	2	746	0.013	9	0.0	0.0	5.264	A
C-A	128	32			128				
A-B	0	0			0				
A-C	133	33			133				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	266	67	647	0.412	266	0.7	0.7	10.203	B
C-AB	9	2	746	0.013	9	0.0	0.0	5.266	A
C-A	128	32			128				
A-B	0	0			0				
A-C	133	33			133				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	218	54	656	0.332	218	0.7	0.5	8.893	A
C-AB	7	2	737	0.010	7	0.0	0.0	5.316	A
C-A	105	26			105				
A-B	0	0			0				
A-C	109	27			109				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	182	46	662	0.275	183	0.5	0.4	8.105	A
C-AB	6	2	731	0.008	6	0.0	0.0	5.354	A
C-A	88	22			88				
A-B	0	0			0				
A-C	91	23			91				

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2033 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		0.51	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2033 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	125	100.000
B		ONE HOUR	✓	22	100.000
C		ONE HOUR	✓	121	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	125
	B	8	0	14
	C	121	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.04	6.25	0.0	A	20	30
C-AB	0.00	0.00	0.0	A	0	0
C-A					111	167
A-B					0	0
A-C					115	172

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	661	0.025	16	0.0	0.0	6.024	A
C-AB	0	0	674	0.000	0	0.0	0.0	0.000	A
C-A	91	23			91				
A-B	0	0			0				
A-C	94	24			94				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	654	0.030	20	0.0	0.0	6.116	A
C-AB	0	0	670	0.000	0	0.0	0.0	0.000	A
C-A	109	27			109				
A-B	0	0			0				
A-C	112	28			112				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	24	6	645	0.038	24	0.0	0.0	6.248	A
C-AB	0	0	663	0.000	0	0.0	0.0	0.000	A
C-A	133	33			133				
A-B	0	0			0				
A-C	138	34			138				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	24	6	645	0.038	24	0.0	0.0	6.248	A
C-AB	0	0	663	0.000	0	0.0	0.0	0.000	A
C-A	133	33			133				
A-B	0	0			0				
A-C	138	34			138				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	654	0.030	20	0.0	0.0	6.117	A
C-AB	0	0	670	0.000	0	0.0	0.0	0.000	A
C-A	109	27			109				
A-B	0	0			0				
A-C	112	28			112				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	661	0.025	17	0.0	0.0	6.025	A
C-AB	0	0	674	0.000	0	0.0	0.0	0.000	A
C-A	91	23			91				
A-B	0	0			0				
A-C	94	24			94				

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2038 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		0.50	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2038 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	129	100.000
B		ONE HOUR	✓	22	100.000
C		ONE HOUR	✓	125	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	129
	B	8	0	14
	C	125	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.04	6.26	0.0	A	20	30
C-AB	0.00	0.00	0.0	A	0	0
C-A					115	172
A-B					0	0
A-C					118	178

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	660	0.025	16	0.0	0.0	6.034	A
C-AB	0	0	674	0.000	0	0.0	0.0	0.000	A
C-A	94	24			94				
A-B	0	0			0				
A-C	97	24			97				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	653	0.030	20	0.0	0.0	6.129	A
C-AB	0	0	669	0.000	0	0.0	0.0	0.000	A
C-A	112	28			112				
A-B	0	0			0				
A-C	116	29			116				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	24	6	644	0.038	24	0.0	0.0	6.264	A
C-AB	0	0	662	0.000	0	0.0	0.0	0.000	A
C-A	138	34			138				
A-B	0	0			0				
A-C	142	36			142				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	24	6	644	0.038	24	0.0	0.0	6.264	A
C-AB	0	0	662	0.000	0	0.0	0.0	0.000	A
C-A	138	34			138				
A-B	0	0			0				
A-C	142	36			142				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	653	0.030	20	0.0	0.0	6.132	A
C-AB	0	0	669	0.000	0	0.0	0.0	0.000	A
C-A	112	28			112				
A-B	0	0			0				
A-C	116	29			116				

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18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	660	0.025	17	0.0	0.0	6.037	A
C-AB	0	0	674	0.000	0	0.0	0.0	0.000	A
C-A	94	24			94				
A-B	0	0			0				
A-C	97	24			97				

2048 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		0.52	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2048 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	137	100.000
B		ONE HOUR	✓	24	100.000
C		ONE HOUR	✓	133	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	0	137
	B	9	0	15
	C	133	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.04	6.34	0.0	A	22	33
C-AB	0.00	0.00	0.0	A	0	0
C-A					122	183
A-B					0	0
A-C					126	189

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	18	5	655	0.028	18	0.0	0.0	6.088	A
C-AB	0	0	672	0.000	0	0.0	0.0	0.000	A
C-A	100	25			100				
A-B	0	0			0				
A-C	103	26			103				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	5	648	0.033	22	0.0	0.0	6.191	A
C-AB	0	0	667	0.000	0	0.0	0.0	0.000	A
C-A	120	30			120				
A-B	0	0			0				
A-C	123	31			123				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	26	7	638	0.041	26	0.0	0.0	6.340	A
C-AB	0	0	660	0.000	0	0.0	0.0	0.000	A
C-A	146	37			146				
A-B	0	0			0				
A-C	151	38			151				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	26	7	638	0.041	26	0.0	0.0	6.340	A
C-AB	0	0	660	0.000	0	0.0	0.0	0.000	A
C-A	146	37			146				
A-B	0	0			0				
A-C	151	38			151				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	5	648	0.033	22	0.0	0.0	6.194	A
C-AB	0	0	667	0.000	0	0.0	0.0	0.000	A
C-A	120	30			120				
A-B	0	0			0				
A-C	123	31			123				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	18	5	655	0.028	18	0.0	0.0	6.090	A
C-AB	0	0	672	0.000	0	0.0	0.0	0.000	A
C-A	100	25			100				
A-B	0	0			0				
A-C	103	26			103				

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2033 With Operational Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		1.90	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D14	2033 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	126	100.000
B		ONE HOUR	✓	89	100.000
C		ONE HOUR	✓	122	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	1	125
	B	33	0	56
	C	121	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.15	7.11	0.2	A	82	123
C-AB	0.00	5.31	0.0	A	1	2
C-A					111	166
A-B					0.92	1
A-C					115	172

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	67	17	659	0.102	67	0.0	0.1	6.542	A
C-AB	0.86	0.22	731	0.001	0.85	0.0	0.0	5.312	A
C-A	91	23			91				
A-B	0.75	0.19			0.75				
A-C	94	24			94				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	80	20	653	0.123	80	0.1	0.1	6.773	A
C-AB	1	0.26	738	0.001	1	0.0	0.0	5.266	A
C-A	109	27			109				
A-B	0.90	0.22			0.90				
A-C	112	28			112				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	98	24	644	0.152	98	0.1	0.2	7.109	A
C-AB	1	0.34	747	0.002	1	0.0	0.0	5.202	A
C-A	133	33			133				
A-B	1	0.28			1				
A-C	138	34			138				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	98	24	644	0.152	98	0.2	0.2	7.112	A
C-AB	1	0.34	747	0.002	1	0.0	0.0	5.204	A
C-A	133	33			133				
A-B	1	0.28			1				
A-C	138	34			138				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	80	20	653	0.123	80	0.2	0.2	6.782	A
C-AB	1	0.26	738	0.001	1	0.0	0.0	5.268	A
C-A	109	27			109				
A-B	0.90	0.22			0.90				
A-C	112	28			112				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	67	17	659	0.102	67	0.2	0.1	6.555	A
C-AB	0.86	0.22	731	0.001	0.86	0.0	0.0	5.312	A
C-A	91	23			91				
A-B	0.75	0.19			0.75				
A-C	94	24			94				

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		1.87	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D15	2038 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	130	100.000
B		ONE HOUR	✓	90	100.000
C		ONE HOUR	✓	126	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	1	129
	B	33	0	57
	C	125	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

RECEIVED: 08/07/2025

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.15	7.14	0.2	A	83	124
C-AB	0.00	5.31	0.0	A	1	2
C-A					115	172
A-B					0.92	1
A-C					118	178

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	68	17	659	0.103	67	0.0	0.1	6.554	A
C-AB	0.86	0.22	732	0.001	0.86	0.0	0.0	5.304	A
C-A	94	23			94				
A-B	0.75	0.19			0.75				
A-C	97	24			97				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	81	20	652	0.124	81	0.1	0.2	6.791	A
C-AB	1	0.27	739	0.001	1	0.0	0.0	5.256	A
C-A	112	28			112				
A-B	0.90	0.22			0.90				
A-C	116	29			116				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	99	25	643	0.154	99	0.2	0.2	7.134	A
C-AB	1	0.34	749	0.002	1	0.0	0.0	5.190	A
C-A	137	34			137				
A-B	1	0.28			1				
A-C	142	36			142				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	99	25	643	0.154	99	0.2	0.2	7.137	A
C-AB	1	0.34	749	0.002	1	0.0	0.0	5.190	A
C-A	137	34			137				
A-B	1	0.28			1				
A-C	142	36			142				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	81	20	652	0.124	81	0.2	0.2	6.800	A
C-AB	1	0.27	739	0.001	1	0.0	0.0	5.256	A
C-A	112	28			112				
A-B	0.90	0.22			0.90				
A-C	116	29			116				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	68	17	659	0.103	68	0.2	0.1	6.567	A
C-AB	0.86	0.22	732	0.001	0.87	0.0	0.0	5.306	A
C-A	94	23			94				
A-B	0.75	0.19			0.75				
A-C	97	24			97				

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2048 With Operational Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/Site Access Junction	T-Junction	Two-way		1.82	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D16	2048 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	138	100.000
B		ONE HOUR	✓	91	100.000
C		ONE HOUR	✓	134	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	1	137
	B	33	0	58
	C	133	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.16	7.18	0.2	A	84	125
C-AB	0.00	5.29	0.0	A	1	2
C-A					122	183
A-B					0.92	1
A-C					126	189

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	69	17	657	0.104	68	0.0	0.1	6.579	A
C-AB	0.87	0.22	735	0.001	0.87	0.0	0.0	5.287	A
C-A	100	25			100				
A-B	0.75	0.19			0.75				
A-C	103	26			103				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	82	20	650	0.126	82	0.1	0.2	6.824	A
C-AB	1	0.27	742	0.001	1	0.0	0.0	5.236	A
C-A	119	30			119				
A-B	0.90	0.22			0.90				
A-C	123	31			123				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	100	25	640	0.156	100	0.2	0.2	7.181	A
C-AB	1	0.34	752	0.002	1	0.0	0.0	5.166	A
C-A	146	37			146				
A-B	1	0.28			1				
A-C	151	38			151				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	100	25	640	0.156	100	0.2	0.2	7.184	A
C-AB	1	0.34	752	0.002	1	0.0	0.0	5.166	A
C-A	146	37			146				
A-B	1	0.28			1				
A-C	151	38			151				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	82	20	650	0.126	82	0.2	0.2	6.830	A
C-AB	1	0.27	742	0.001	1	0.0	0.0	5.238	A
C-A	119	30			119				
A-B	0.90	0.22			0.90				
A-C	123	31			123				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	69	17	657	0.104	69	0.2	0.1	6.595	A
C-AB	0.87	0.22	735	0.001	0.87	0.0	0.0	5.287	A
C-A	100	25			100				
A-B	0.75	0.19			0.75				
A-C	103	26			103				

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Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.5.2.1013
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Filename: L51251.j9
Path: \\192.168.1.33
\ttrsa\projects\T241206_Westmeath_Admiral_Datacentre_Solar_Farm_EIAR_MMP_S1_RSA\eiar_chapter\modelling\L51251
Report generation date: 08/07/2025 11:23:48

»2029 Without Development, AM
»2029 With Construction, AM
»2033 Without Development, AM
»2038 Without Development, AM
»2048 Without Development, AM
»2033 With Operational Development, AM
»2038 With Operational Development, AM
»2048 With Operational Development, AM
»2029 Without Development, PM
»2029 With Construction, PM
»2033 Without Development, PM
»2038 Without Development, PM
»2048 Without Development, PM
»2033 With Operational Development, PM
»2038 With Operational Development, PM
»2048 With Operational Development, PM

Summary of junction performance

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	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2029 Without Development									
Stream B-AC	D1	0.0	8.43	0.02	A	D9	0.0	9.07	0.03	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.33	0.01	A
	2029 With Construction									
Stream B-AC	D2	0.0	8.42	0.03	A	D10	0.0	9.30	0.03	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.09	0.01	A
	2033 Without Development									
Stream B-AC	D3	0.0	8.54	0.03	A	D11	0.0	9.09	0.03	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.32	0.01	A
	2038 Without Development									
Stream B-AC	D4	0.0	8.56	0.03	A	D12	0.0	9.13	0.03	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.31	0.01	A
	2048 Without Development									
Stream B-AC	D5	0.0	8.48	0.03	A	D13	0.0	9.24	0.03	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.29	0.01	A
	2033 With Operational Development									
Stream B-AC	D6	0.0	8.50	0.03	A	D14	0.0	9.17	0.03	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.25	0.01	A
	2038 With Operational Development									
Stream B-AC	D7	0.0	8.53	0.03	A	D15	0.0	9.21	0.03	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.24	0.01	A
	2048 With Operational Development									
Stream B-AC	D8	0.0	8.57	0.03	A	D16	0.0	9.33	0.03	A
Stream C-AB		0.0	0.00	0.00	A		0.0	5.22	0.01	A

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

File summary

File Description

Title	Admiral
Location	R446/L51251 Junction
Site number	
Date	08/07/2025
Version	EIAR
Status	Final
Identifier	
Client	Halston
Jobnumber	241206
Enumerator	TTRSA
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Construction	AM	ONE HOUR	08:00	09:30	15	✓
D3	2033 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D4	2038 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D5	2048 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D6	2033 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D7	2038 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D8	2048 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D9	2029 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D10	2029 With Construction	PM	ONE HOUR	16:45	18:15	15	✓
D11	2033 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D12	2038 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D13	2048 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D14	2033 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓
D15	2038 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓
D16	2048 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

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Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2029 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.36	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	R446 to/from East		Major
B	L51251 Local Road		Minor
C	R446 to/from West		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.30			215.0	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	2.50	18	32

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	474	0.081	0.206	0.130	0.294
B-C	612	0.088	0.224	-	-
C-B	698	0.255	0.255	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

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Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	99	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	124	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	4	95
	B	7	0	3
	C	124	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	8.43	0.0	A	9	14
C-AB	0.00	0.00	0.0	A	0	0
C-A					114	171
A-B					4	6
A-C					87	131

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	483	0.016	7	0.0	0.0	8.156	A
C-AB	0	0	679	0.000	0	0.0	0.0	0.000	A
C-A	93	23			93				
A-B	3	0.75			3				
A-C	72	18			72				

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08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	478	0.019	9	0.0	0.0	8.268	A
C-AB	0	0	676	0.000	0	0.0	0.0	0.000	A
C-A	111	28			111				
A-B	4	0.90			4				
A-C	85	21			85				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	471	0.023	11	0.0	0.0	8.427	A
C-AB	0	0	671	0.000	0	0.0	0.0	0.000	A
C-A	137	34			137				
A-B	4	1			4				
A-C	105	26			105				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	471	0.023	11	0.0	0.0	8.427	A
C-AB	0	0	671	0.000	0	0.0	0.0	0.000	A
C-A	137	34			137				
A-B	4	1			4				
A-C	105	26			105				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	478	0.019	9	0.0	0.0	8.271	A
C-AB	0	0	676	0.000	0	0.0	0.0	0.000	A
C-A	111	28			111				
A-B	4	0.90			4				
A-C	85	21			85				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	483	0.016	8	0.0	0.0	8.159	A
C-AB	0	0	679	0.000	0	0.0	0.0	0.000	A
C-A	93	23			93				
A-B	3	0.75			3				
A-C	72	18			72				

2029 With Construction, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.35	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2029 With Construction	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	126	100.000
B		ONE HOUR	✓	11	100.000
C		ONE HOUR	✓	130	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	4	122
	B	7	0	4
	C	130	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	8.42	0.0	A	10	15
C-AB	0.00	0.00	0.0	A	0	0
C-A					119	179
A-B					4	6
A-C					112	168

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	487	0.017	8	0.0	0.0	8.107	A
C-AB	0	0	674	0.000	0	0.0	0.0	0.000	A
C-A	98	24			98				
A-B	3	0.75			3				
A-C	92	23			92				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	481	0.021	10	0.0	0.0	8.235	A
C-AB	0	0	670	0.000	0	0.0	0.0	0.000	A
C-A	117	29			117				
A-B	4	0.90			4				
A-C	110	27			110				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	3	473	0.026	12	0.0	0.0	8.418	A
C-AB	0	0	663	0.000	0	0.0	0.0	0.000	A
C-A	143	36			143				
A-B	4	1			4				
A-C	134	34			134				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	3	473	0.026	12	0.0	0.0	8.418	A
C-AB	0	0	663	0.000	0	0.0	0.0	0.000	A
C-A	143	36			143				
A-B	4	1			4				
A-C	134	34			134				

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09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	481	0.021	10	0.0	0.0	8.236	A
C-AB	0	0	670	0.000	0	0.0	0.0	0.000	A
C-A	117	29			117				
A-B	4	0.90			4				
A-C	110	27			110				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	487	0.017	8	0.0	0.0	8.109	A
C-AB	0	0	674	0.000	0	0.0	0.0	0.000	A
C-A	98	24			98				
A-B	3	0.75			3				
A-C	92	23			92				

2033 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.39	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2033 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	102	100.000
B		ONE HOUR	✓	11	100.000
C		ONE HOUR	✓	128	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	4	98
	B	8	0	3
	C	128	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	8.54	0.0	A	10	15
C-AB	0.00	0.00	0.0	A	0	0
C-A					117	176
A-B					4	6
A-C					90	135

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	479	0.017	8	0.0	0.0	8.244	A
C-AB	0	0	679	0.000	0	0.0	0.0	0.000	A
C-A	96	24			96				
A-B	3	0.75			3				
A-C	74	18			74				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	474	0.021	10	0.0	0.0	8.365	A
C-AB	0	0	675	0.000	0	0.0	0.0	0.000	A
C-A	115	29			115				
A-B	4	0.90			4				
A-C	88	22			88				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	3	467	0.026	12	0.0	0.0	8.536	A
C-AB	0	0	670	0.000	0	0.0	0.0	0.000	A
C-A	141	35			141				
A-B	4	1			4				
A-C	108	27			108				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	3	467	0.026	12	0.0	0.0	8.536	A
C-AB	0	0	670	0.000	0	0.0	0.0	0.000	A
C-A	141	35			141				
A-B	4	1			4				
A-C	108	27			108				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	474	0.021	10	0.0	0.0	8.367	A
C-AB	0	0	675	0.000	0	0.0	0.0	0.000	A
C-A	115	29			115				
A-B	4	0.90			4				
A-C	88	22			88				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	479	0.017	8	0.0	0.0	8.246	A
C-AB	0	0	679	0.000	0	0.0	0.0	0.000	A
C-A	96	24			96				
A-B	3	0.75			3				
A-C	74	18			74				

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2038 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.38	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2038 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	106	100.000
B		ONE HOUR	✓	11	100.000
C		ONE HOUR	✓	132	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	5	101
	B	8	0	3
	C	132	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	8.56	0.0	A	10	15
C-AB	0.00	0.00	0.0	A	0	0
C-A					121	182
A-B					5	7
A-C					93	139

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	478	0.017	8	0.0	0.0	8.259	A
C-AB	0	0	678	0.000	0	0.0	0.0	0.000	A
C-A	99	25			99				
A-B	4	0.94			4				
A-C	76	19			76				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	473	0.021	10	0.0	0.0	8.384	A
C-AB	0	0	674	0.000	0	0.0	0.0	0.000	A
C-A	119	30			119				
A-B	4	1			4				
A-C	91	23			91				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	3	465	0.026	12	0.0	0.0	8.560	A
C-AB	0	0	669	0.000	0	0.0	0.0	0.000	A
C-A	145	36			145				
A-B	6	1			6				
A-C	111	28			111				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	3	465	0.026	12	0.0	0.0	8.560	A
C-AB	0	0	669	0.000	0	0.0	0.0	0.000	A
C-A	145	36			145				
A-B	6	1			6				
A-C	111	28			111				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	473	0.021	10	0.0	0.0	8.385	A
C-AB	0	0	674	0.000	0	0.0	0.0	0.000	A
C-A	119	30			119				
A-B	4	1			4				
A-C	91	23			91				

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09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	478	0.017	8	0.0	0.0	8.263	A
C-AB	0	0	678	0.000	0	0.0	0.0	0.000	A
C-A	99	25			99				
A-B	4	0.94			4				
A-C	76	19			76				

2048 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.38	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2048 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	113	100.000
B		ONE HOUR	✓	12	100.000
C		ONE HOUR	✓	140	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	5	108
	B	8	0	4
	C	140	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	8.48	0.0	A	11	17
C-AB	0.00	0.00	0.0	A	0	0
C-A					128	193
A-B					5	7
A-C					99	149

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	484	0.019	9	0.0	0.0	8.165	A
C-AB	0	0	677	0.000	0	0.0	0.0	0.000	A
C-A	105	26			105				
A-B	4	0.94			4				
A-C	81	20			81				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	479	0.023	11	0.0	0.0	8.294	A
C-AB	0	0	673	0.000	0	0.0	0.0	0.000	A
C-A	126	31			126				
A-B	4	1			4				
A-C	97	24			97				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	13	3	471	0.028	13	0.0	0.0	8.477	A
C-AB	0	0	667	0.000	0	0.0	0.0	0.000	A
C-A	154	39			154				
A-B	6	1			6				
A-C	119	30			119				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	13	3	471	0.028	13	0.0	0.0	8.477	A
C-AB	0	0	667	0.000	0	0.0	0.0	0.000	A
C-A	154	39			154				
A-B	6	1			6				
A-C	119	30			119				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	479	0.023	11	0.0	0.0	8.296	A
C-AB	0	0	673	0.000	0	0.0	0.0	0.000	A
C-A	126	31			126				
A-B	4	1			4				
A-C	97	24			97				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	484	0.019	9	0.0	0.0	8.168	A
C-AB	0	0	677	0.000	0	0.0	0.0	0.000	A
C-A	105	26			105				
A-B	4	0.94			4				
A-C	81	20			81				

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2033 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.39	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2033 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	122	100.000
B		ONE HOUR	✓	12	100.000
C		ONE HOUR	✓	130	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	4	118
	B	8	0	4
	C	130	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

RECEIVED: 08/07/2025

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	8.50	0.0	A	11	17
C-AB	0.00	0.00	0.0	A	0	0
C-A					119	179
A-B					4	6
A-C					108	162

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	483	0.019	9	0.0	0.0	8.178	A
C-AB	0	0	675	0.000	0	0.0	0.0	0.000	A
C-A	98	24			98				
A-B	3	0.75			3				
A-C	89	22			89				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	478	0.023	11	0.0	0.0	8.310	A
C-AB	0	0	670	0.000	0	0.0	0.0	0.000	A
C-A	117	29			117				
A-B	4	0.90			4				
A-C	106	27			106				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	13	3	470	0.028	13	0.0	0.0	8.497	A
C-AB	0	0	664	0.000	0	0.0	0.0	0.000	A
C-A	143	36			143				
A-B	4	1			4				
A-C	130	32			130				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	13	3	470	0.028	13	0.0	0.0	8.497	A
C-AB	0	0	664	0.000	0	0.0	0.0	0.000	A
C-A	143	36			143				
A-B	4	1			4				
A-C	130	32			130				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	478	0.023	11	0.0	0.0	8.311	A
C-AB	0	0	670	0.000	0	0.0	0.0	0.000	A
C-A	117	29			117				
A-B	4	0.90			4				
A-C	106	27			106				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	483	0.019	9	0.0	0.0	8.180	A
C-AB	0	0	675	0.000	0	0.0	0.0	0.000	A
C-A	98	24			98				
A-B	3	0.75			3				
A-C	89	22			89				

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2038 With Operational Development, AM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.37	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2038 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	127	100.000
B		ONE HOUR	✓	12	100.000
C		ONE HOUR	✓	134	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	5	122
	B	8	0	4
	C	134	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

RECEIVED: 08/07/2025

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	8.53	0.0	A	11	17
C-AB	0.00	0.00	0.0	A	0	0
C-A					123	184
A-B					5	7
A-C					112	168

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	482	0.019	9	0.0	0.0	8.195	A
C-AB	0	0	674	0.000	0	0.0	0.0	0.000	A
C-A	101	25			101				
A-B	4	0.94			4				
A-C	92	23			92				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	477	0.023	11	0.0	0.0	8.331	A
C-AB	0	0	669	0.000	0	0.0	0.0	0.000	A
C-A	120	30			120				
A-B	4	1			4				
A-C	110	27			110				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	13	3	468	0.028	13	0.0	0.0	8.525	A
C-AB	0	0	663	0.000	0	0.0	0.0	0.000	A
C-A	148	37			148				
A-B	6	1			6				
A-C	134	34			134				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	13	3	468	0.028	13	0.0	0.0	8.525	A
C-AB	0	0	663	0.000	0	0.0	0.0	0.000	A
C-A	148	37			148				
A-B	6	1			6				
A-C	134	34			134				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	477	0.023	11	0.0	0.0	8.332	A
C-AB	0	0	669	0.000	0	0.0	0.0	0.000	A
C-A	120	30			120				
A-B	4	1			4				
A-C	110	27			110				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	482	0.019	9	0.0	0.0	8.199	A
C-AB	0	0	674	0.000	0	0.0	0.0	0.000	A
C-A	101	25			101				
A-B	4	0.94			4				
A-C	92	23			92				

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RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.36	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2048 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	133	100.000
B		ONE HOUR	✓	12	100.000
C		ONE HOUR	✓	143	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	5	128
	B	8	0	4
	C	143	0	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	8.57	0.0	A	11	17
C-AB	0.00	0.00	0.0	A	0	0
C-A					131	197
A-B					5	7
A-C					117	176

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	481	0.019	9	0.0	0.0	8.224	A
C-AB	0	0	673	0.000	0	0.0	0.0	0.000	A
C-A	108	27			108				
A-B	4	0.94			4				
A-C	96	24			96				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	475	0.023	11	0.0	0.0	8.367	A
C-AB	0	0	668	0.000	0	0.0	0.0	0.000	A
C-A	129	32			129				
A-B	4	1			4				
A-C	115	29			115				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	13	3	466	0.028	13	0.0	0.0	8.571	A
C-AB	0	0	661	0.000	0	0.0	0.0	0.000	A
C-A	157	39			157				
A-B	6	1			6				
A-C	141	35			141				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	13	3	466	0.028	13	0.0	0.0	8.571	A
C-AB	0	0	661	0.000	0	0.0	0.0	0.000	A
C-A	157	39			157				
A-B	6	1			6				
A-C	141	35			141				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	475	0.023	11	0.0	0.0	8.368	A
C-AB	0	0	668	0.000	0	0.0	0.0	0.000	A
C-A	129	32			129				
A-B	4	1			4				
A-C	115	29			115				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	481	0.019	9	0.0	0.0	8.228	A
C-AB	0	0	673	0.000	0	0.0	0.0	0.000	A
C-A	108	27			108				
A-B	4	0.94			4				
A-C	96	24			96				

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2029 Without Development, PM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.41	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2029 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	131	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	126	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	11	120
	B	9	0	1
	C	123	3	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	9.07	0.0	A	9	14
C-AB	0.01	5.33	0.0	A	3	5
C-A					112	169
A-B					10	15
A-C					110	165

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	454	0.017	7	0.0	0.0	8.697	A
C-AB	3	0.65	731	0.004	3	0.0	0.0	5.325	A
C-A	92	23			92				
A-B	8	2			8				
A-C	90	23			90				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	448	0.020	9	0.0	0.0	8.849	A
C-AB	3	0.79	738	0.004	3	0.0	0.0	5.281	A
C-A	110	28			110				
A-B	10	2			10				
A-C	108	27			108				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	439	0.025	11	0.0	0.0	9.066	A
C-AB	4	1	747	0.005	4	0.0	0.0	5.220	A
C-A	135	34			135				
A-B	12	3			12				
A-C	132	33			132				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	439	0.025	11	0.0	0.0	9.066	A
C-AB	4	1	747	0.005	4	0.0	0.0	5.222	A
C-A	135	34			135				
A-B	12	3			12				
A-C	132	33			132				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	448	0.020	9	0.0	0.0	8.852	A
C-AB	3	0.79	738	0.004	3	0.0	0.0	5.283	A
C-A	110	28			110				
A-B	10	2			10				
A-C	108	27			108				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	454	0.017	8	0.0	0.0	8.699	A
C-AB	3	0.65	731	0.004	3	0.0	0.0	5.327	A
C-A	92	23			92				
A-B	8	2			8				
A-C	90	23			90				

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2029 With Construction, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.37	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2029 With Construction	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	131	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	204	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	11	120
	B	9	0	1
	C	199	5	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	9.30	0.0	A	9	14
C-AB	0.01	5.09	0.0	A	6	9
C-A					181	272
A-B					10	15
A-C					110	165

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	446	0.017	7	0.0	0.0	8.845	A
C-AB	5	1	767	0.006	5	0.0	0.0	5.089	A
C-A	149	37			149				
A-B	8	2			8				
A-C	90	23			90				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	439	0.021	9	0.0	0.0	9.033	A
C-AB	6	1	781	0.007	6	0.0	0.0	5.006	A
C-A	178	44			178				
A-B	10	2			10				
A-C	108	27			108				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	428	0.026	11	0.0	0.0	9.303	A
C-AB	8	2	800	0.009	8	0.0	0.0	4.895	A
C-A	217	54			217				
A-B	12	3			12				
A-C	132	33			132				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	428	0.026	11	0.0	0.0	9.303	A
C-AB	8	2	800	0.009	8	0.0	0.0	4.897	A
C-A	217	54			217				
A-B	12	3			12				
A-C	132	33			132				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	439	0.021	9	0.0	0.0	9.035	A
C-AB	6	1	781	0.007	6	0.0	0.0	5.006	A
C-A	178	44			178				
A-B	10	2			10				
A-C	108	27			108				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	446	0.017	8	0.0	0.0	8.847	A
C-AB	5	1	767	0.006	5	0.0	0.0	5.091	A
C-A	149	37			149				
A-B	8	2			8				
A-C	90	23			90				

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2033 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.40	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2033 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	135	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	129	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	11	124
	B	9	0	1
	C	126	3	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

RECEIVED: 08/07/2025

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	9.09	0.0	A	9	14
C-AB	0.01	5.32	0.0	A	3	5
C-A					115	173
A-B					10	15
A-C					114	171

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	453	0.017	7	0.0	0.0	8.715	A
C-AB	3	0.65	732	0.004	3	0.0	0.0	5.320	A
C-A	95	24			95				
A-B	8	2			8				
A-C	93	23			93				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	446	0.020	9	0.0	0.0	8.871	A
C-AB	3	0.80	739	0.004	3	0.0	0.0	5.275	A
C-A	113	28			113				
A-B	10	2			10				
A-C	111	28			111				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	438	0.025	11	0.0	0.0	9.094	A
C-AB	4	1	748	0.005	4	0.0	0.0	5.213	A
C-A	138	34			138				
A-B	12	3			12				
A-C	137	34			137				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	438	0.025	11	0.0	0.0	9.094	A
C-AB	4	1	748	0.005	4	0.0	0.0	5.215	A
C-A	138	34			138				
A-B	12	3			12				
A-C	137	34			137				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	446	0.020	9	0.0	0.0	8.872	A
C-AB	3	0.80	739	0.004	3	0.0	0.0	5.275	A
C-A	113	28			113				
A-B	10	2			10				
A-C	111	28			111				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	453	0.017	8	0.0	0.0	8.719	A
C-AB	3	0.65	732	0.004	3	0.0	0.0	5.320	A
C-A	95	24			95				
A-B	8	2			8				
A-C	93	23			93				

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2038 Without Development, PM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.39	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2038 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	139	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	134	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	11	128
	B	9	0	1
	C	131	3	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

RECEIVED: 08/07/2025

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	9.13	0.0	A	9	14
C-AB	0.01	5.31	0.0	A	3	5
C-A					120	179
A-B					10	15
A-C					117	176

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	452	0.017	7	0.0	0.0	8.736	A
C-AB	3	0.65	734	0.004	3	0.0	0.0	5.308	A
C-A	98	25			98				
A-B	8	2			8				
A-C	96	24			96				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	445	0.020	9	0.0	0.0	8.897	A
C-AB	3	0.80	741	0.004	3	0.0	0.0	5.261	A
C-A	117	29			117				
A-B	10	2			10				
A-C	115	29			115				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	436	0.025	11	0.0	0.0	9.128	A
C-AB	4	1	751	0.005	4	0.0	0.0	5.196	A
C-A	143	36			143				
A-B	12	3			12				
A-C	141	35			141				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	436	0.025	11	0.0	0.0	9.128	A
C-AB	4	1	751	0.005	4	0.0	0.0	5.198	A
C-A	143	36			143				
A-B	12	3			12				
A-C	141	35			141				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	445	0.020	9	0.0	0.0	8.900	A
C-AB	3	0.80	741	0.004	3	0.0	0.0	5.263	A
C-A	117	29			117				
A-B	10	2			10				
A-C	115	29			115				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	452	0.017	8	0.0	0.0	8.740	A
C-AB	3	0.65	734	0.004	3	0.0	0.0	5.308	A
C-A	98	25			98				
A-B	8	2			8				
A-C	96	24			96				

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2048 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.40	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2048 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	148	100.000
B		ONE HOUR	✓	11	100.000
C		ONE HOUR	✓	142	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	12	136
	B	10	0	1
	C	139	3	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	9.24	0.0	A	10	15
C-AB	0.01	5.29	0.0	A	3	5
C-A					127	190
A-B					11	17
A-C					125	187

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	449	0.018	8	0.0	0.0	8.813	A
C-AB	3	0.66	736	0.004	3	0.0	0.0	5.293	A
C-A	104	26			104				
A-B	9	2			9				
A-C	102	26			102				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	442	0.022	10	0.0	0.0	8.989	A
C-AB	3	0.81	743	0.004	3	0.0	0.0	5.243	A
C-A	124	31			124				
A-B	11	3			11				
A-C	122	31			122				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	3	432	0.028	12	0.0	0.0	9.241	A
C-AB	4	1	754	0.006	4	0.0	0.0	5.174	A
C-A	152	38			152				
A-B	13	3			13				
A-C	150	37			150				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	3	432	0.028	12	0.0	0.0	9.241	A
C-AB	4	1	754	0.006	4	0.0	0.0	5.174	A
C-A	152	38			152				
A-B	13	3			13				
A-C	150	37			150				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	442	0.022	10	0.0	0.0	8.991	A
C-AB	3	0.81	743	0.004	3	0.0	0.0	5.245	A
C-A	124	31			124				
A-B	11	3			11				
A-C	122	31			122				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	449	0.018	8	0.0	0.0	8.817	A
C-AB	3	0.66	736	0.004	3	0.0	0.0	5.293	A
C-A	104	26			104				
A-B	9	2			9				
A-C	102	26			102				

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2033 With Operational Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.39	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D14	2033 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	135	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	154	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	11	124
	B	9	0	1
	C	150	4	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	9.17	0.0	A	9	14
C-AB	0.01	5.25	0.0	A	5	7
C-A					137	205
A-B					10	15
A-C					114	171

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	450	0.017	7	0.0	0.0	8.762	A
C-AB	4	0.89	743	0.005	4	0.0	0.0	5.245	A
C-A	112	28			112				
A-B	8	2			8				
A-C	93	23			93				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	444	0.020	9	0.0	0.0	8.930	A
C-AB	4	1	752	0.006	4	0.0	0.0	5.188	A
C-A	134	34			134				
A-B	10	2			10				
A-C	111	28			111				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	434	0.025	11	0.0	0.0	9.170	A
C-AB	6	1	765	0.007	6	0.0	0.0	5.109	A
C-A	164	41			164				
A-B	12	3			12				
A-C	137	34			137				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	434	0.025	11	0.0	0.0	9.170	A
C-AB	6	1	765	0.007	6	0.0	0.0	5.109	A
C-A	164	41			164				
A-B	12	3			12				
A-C	137	34			137				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	444	0.020	9	0.0	0.0	8.931	A
C-AB	4	1	752	0.006	4	0.0	0.0	5.190	A
C-A	134	34			134				
A-B	10	2			10				
A-C	111	28			111				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	450	0.017	8	0.0	0.0	8.767	A
C-AB	4	0.89	743	0.005	4	0.0	0.0	5.245	A
C-A	112	28			112				
A-B	8	2			8				
A-C	93	23			93				

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2038 With Operational Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.38	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D15	2038 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	140	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	159	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	11	129
	B	9	0	1
	C	155	4	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	9.21	0.0	A	9	14
C-AB	0.01	5.24	0.0	A	5	7
C-A					141	212
A-B					10	15
A-C					118	178

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	449	0.017	7	0.0	0.0	8.787	A
C-AB	4	0.89	745	0.005	4	0.0	0.0	5.235	A
C-A	116	29			116				
A-B	8	2			8				
A-C	97	24			97				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	442	0.020	9	0.0	0.0	8.961	A
C-AB	4	1	754	0.006	4	0.0	0.0	5.176	A
C-A	139	35			139				
A-B	10	2			10				
A-C	116	29			116				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	432	0.025	11	0.0	0.0	9.210	A
C-AB	6	1	767	0.007	6	0.0	0.0	5.094	A
C-A	169	42			169				
A-B	12	3			12				
A-C	142	36			142				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	432	0.025	11	0.0	0.0	9.210	A
C-AB	6	1	767	0.007	6	0.0	0.0	5.096	A
C-A	169	42			169				
A-B	12	3			12				
A-C	142	36			142				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	442	0.020	9	0.0	0.0	8.964	A
C-AB	4	1	754	0.006	4	0.0	0.0	5.178	A
C-A	139	35			139				
A-B	10	2			10				
A-C	116	29			116				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	449	0.017	8	0.0	0.0	8.790	A
C-AB	4	0.89	745	0.005	4	0.0	0.0	5.237	A
C-A	116	29			116				
A-B	8	2			8				
A-C	97	24			97				

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2048 With Operational Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L51251 Junction	T-Junction	Two-way		0.39	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D16	2048 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	149	100.000
B		ONE HOUR	✓	11	100.000
C		ONE HOUR	✓	167	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	12	137
	B	10	0	1
	C	163	4	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	9.33	0.0	A	10	15
C-AB	0.01	5.22	0.0	A	5	7
C-A					149	223
A-B					11	17
A-C					126	189

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	446	0.019	8	0.0	0.0	8.865	A
C-AB	4	0.90	747	0.005	4	0.0	0.0	5.220	A
C-A	122	31			122				
A-B	9	2			9				
A-C	103	26			103				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	438	0.023	10	0.0	0.0	9.054	A
C-AB	4	1	757	0.006	4	0.0	0.0	5.158	A
C-A	146	36			146				
A-B	11	3			11				
A-C	123	31			123				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	3	428	0.028	12	0.0	0.0	9.326	A
C-AB	6	1	771	0.007	6	0.0	0.0	5.073	A
C-A	178	45			178				
A-B	13	3			13				
A-C	151	38			151				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	12	3	428	0.028	12	0.0	0.0	9.326	A
C-AB	6	1	771	0.007	6	0.0	0.0	5.073	A
C-A	178	45			178				
A-B	13	3			13				
A-C	151	38			151				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	438	0.023	10	0.0	0.0	9.057	A
C-AB	4	1	757	0.006	4	0.0	0.0	5.160	A
C-A	146	36			146				
A-B	11	3			11				
A-C	123	31			123				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	446	0.019	8	0.0	0.0	8.870	A
C-AB	4	0.90	747	0.005	4	0.0	0.0	5.220	A
C-A	122	31			122				
A-B	9	2			9				
A-C	103	26			103				

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Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.5.2.1013
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\ttrsa\projects\T241206_Westmeath_Admiral_Datacentre_Solar_Farm_EIAR_MMP_S1_RSA\eiar_chapter\modelling\L11272
Report generation date: 08/07/2025 11:27:03

»2029 Without Development, AM
»2029 With Construction, AM
»2033 Without Development, AM
»2038 Without Development, AM
»2048 Without Development, AM
»2033 With Operational Development, AM
»2038 With Operational Development, AM
»2048 With Operational Development, AM
»2029 Without Development, PM
»2029 With Construction, PM
»2033 Without Development, PM
»2038 Without Development, PM
»2048 Without Development, PM
»2033 With Operational Development, PM
»2038 With Operational Development, PM
»2048 With Operational Development, PM

Summary of junction performance

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	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2029 Without Development									
Stream B-AC	D1	0.1	7.98	0.05	A	D9	0.0	8.53	0.02	A
Stream C-AB		0.0	5.25	0.00	A		0.0	5.35	0.01	A
	2029 With Construction									
Stream B-AC	D2	0.1	8.00	0.05	A	D10	0.0	8.80	0.02	A
Stream C-AB		0.0	5.28	0.00	A		0.0	5.13	0.02	A
	2033 Without Development									
Stream B-AC	D3	0.1	7.64	0.05	A	D11	0.0	8.56	0.02	A
Stream C-AB		0.0	5.13	0.00	A		0.0	5.34	0.01	A
	2038 Without Development									
Stream B-AC	D4	0.1	8.02	0.05	A	D12	0.0	8.59	0.02	A
Stream C-AB		0.0	5.23	0.00	A		0.0	5.33	0.01	A
	2048 Without Development									
Stream B-AC	D5	0.1	8.11	0.05	A	D13	0.0	8.69	0.02	A
Stream C-AB		0.0	5.21	0.00	A		0.0	5.32	0.01	A
	2033 With Operational Development									
Stream B-AC	D6	0.1	7.98	0.05	A	D14	0.0	8.64	0.02	A
Stream C-AB		0.0	5.26	0.00	A		0.0	5.27	0.01	A
	2038 With Operational Development									
Stream B-AC	D7	0.1	8.05	0.05	A	D15	0.0	8.67	0.02	A
Stream C-AB		0.0	5.25	0.00	A		0.0	5.26	0.01	A
	2048 With Operational Development									
Stream B-AC	D8	0.1	8.15	0.06	A	D16	0.0	8.77	0.02	A
Stream C-AB		0.0	5.23	0.00	A		0.0	5.25	0.02	A

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

File summary

File Description

Title	Admiral
Location	R446/L11272 Junction
Site number	
Date	08/07/2025
Version	EIAR
Status	Final
Identifier	
Client	Halston
Jobnumber	241206
Enumerator	TTRSA
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Construction	AM	ONE HOUR	08:00	09:30	15	✓
D3	2033 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D4	2038 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D5	2048 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D6	2033 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D7	2038 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D8	2048 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D9	2029 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D10	2029 With Construction	PM	ONE HOUR	16:45	18:15	15	✓
D11	2033 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D12	2038 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D13	2048 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D14	2033 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓
D15	2038 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓
D16	2048 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

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Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2029 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.71	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	R446 to/from East		Major
B	L11272 Local Road		Minor
C	R446 to/from West		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.30			215.0	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	3.00	40	60

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	520	0.089	0.226	0.142	0.323
B-C	662	0.096	0.242	-	-
C-B	698	0.255	0.255	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

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Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	103	100.000
B		ONE HOUR	✓	22	100.000
C		ONE HOUR	✓	132	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	93
	B	16	0	6
	C	131	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.05	7.98	0.1	A	20	30
C-AB	0.00	5.25	0.0	A	1	2
C-A					120	180
A-B					9	14
A-C					85	128

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	524	0.032	16	0.0	0.0	7.648	A
C-AB	0.87	0.22	740	0.001	0.86	0.0	0.0	5.249	A
C-A	99	25			99				
A-B	8	2			8				
A-C	70	18			70				

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08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	518	0.038	20	0.0	0.0	7.787	A
C-AB	1	0.27	748	0.001	1	0.0	0.0	5.192	A
C-A	118	29			118				
A-B	9	2			9				
A-C	84	21			84				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	24	6	510	0.047	24	0.0	0.1	7.982	A
C-AB	1	0.34	760	0.002	1	0.0	0.0	5.114	A
C-A	144	36			144				
A-B	11	3			11				
A-C	102	26			102				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	24	6	510	0.047	24	0.1	0.1	7.982	A
C-AB	1	0.34	760	0.002	1	0.0	0.0	5.114	A
C-A	144	36			144				
A-B	11	3			11				
A-C	102	26			102				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	518	0.038	20	0.1	0.0	7.790	A
C-AB	1	0.27	748	0.001	1	0.0	0.0	5.194	A
C-A	118	29			118				
A-B	9	2			9				
A-C	84	21			84				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	524	0.032	17	0.0	0.0	7.652	A
C-AB	0.87	0.22	740	0.001	0.87	0.0	0.0	5.251	A
C-A	99	25			99				
A-B	8	2			8				
A-C	70	18			70				

2029 With Construction, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.68	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2029 With Construction	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	132	100.000
B		ONE HOUR	✓	24	100.000
C		ONE HOUR	✓	135	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	14	118
	B	16	0	8
	C	134	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.05	8.00	0.1	A	22	33
C-AB	0.00	5.28	0.0	A	1	2
C-A					123	184
A-B					13	19
A-C					108	162

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	18	5	527	0.034	18	0.0	0.0	7.620	A
C-AB	0.87	0.22	736	0.001	0.87	0.0	0.0	5.276	A
C-A	101	25			101				
A-B	11	3			11				
A-C	89	22			89				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	5	521	0.041	22	0.0	0.0	7.776	A
C-AB	1	0.27	744	0.001	1	0.0	0.0	5.223	A
C-A	120	30			120				
A-B	13	3			13				
A-C	106	27			106				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	26	7	512	0.052	26	0.0	0.1	7.995	A
C-AB	1	0.34	755	0.002	1	0.0	0.0	5.151	A
C-A	147	37			147				
A-B	15	4			15				
A-C	130	32			130				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	26	7	512	0.052	26	0.1	0.1	7.997	A
C-AB	1	0.34	755	0.002	1	0.0	0.0	5.153	A
C-A	147	37			147				
A-B	15	4			15				
A-C	130	32			130				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	5	521	0.041	22	0.1	0.0	7.779	A
C-AB	1	0.27	744	0.001	1	0.0	0.0	5.225	A
C-A	120	30			120				
A-B	13	3			13				
A-C	106	27			106				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	18	5	527	0.034	18	0.0	0.0	7.624	A
C-AB	0.87	0.22	736	0.001	0.87	0.0	0.0	5.278	A
C-A	101	25			101				
A-B	11	3			11				
A-C	89	22			89				

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2033 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		1.01	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2033 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	16	100.000
B		ONE HOUR	✓	22	100.000
C		ONE HOUR	✓	135	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	6
	B	16	0	6
	C	134	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.05	7.64	0.1	A	20	30
C-AB	0.00	5.13	0.0	A	1	2
C-A					123	184
A-B					9	14
A-C					6	8

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	539	0.031	16	0.0	0.0	7.430	A
C-AB	0.87	0.22	757	0.001	0.86	0.0	0.0	5.129	A
C-A	101	25			101				
A-B	8	2			8				
A-C	5	1			5				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	536	0.037	20	0.0	0.0	7.518	A
C-AB	1	0.27	769	0.001	1	0.0	0.0	5.054	A
C-A	120	30			120				
A-B	9	2			9				
A-C	5	1			5				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	24	6	532	0.046	24	0.0	0.1	7.639	A
C-AB	1	0.34	785	0.002	1	0.0	0.0	4.954	A
C-A	147	37			147				
A-B	11	3			11				
A-C	7	2			7				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	24	6	532	0.046	24	0.1	0.1	7.639	A
C-AB	1	0.34	785	0.002	1	0.0	0.0	4.954	A
C-A	147	37			147				
A-B	11	3			11				
A-C	7	2			7				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	536	0.037	20	0.1	0.0	7.522	A
C-AB	1	0.27	769	0.001	1	0.0	0.0	5.054	A
C-A	120	30			120				
A-B	9	2			9				
A-C	5	1			5				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	539	0.031	17	0.0	0.0	7.436	A
C-AB	0.87	0.22	757	0.001	0.87	0.0	0.0	5.131	A
C-A	101	25			101				
A-B	8	2			8				
A-C	5	1			5				

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2038 Without Development, AM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.73	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2038 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	109	100.000
B		ONE HOUR	✓	24	100.000
C		ONE HOUR	✓	140	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	99
	B	17	0	7
	C	139	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.05	8.02	0.1	A	22	33
C-AB	0.00	5.23	0.0	A	1	2
C-A					127	191
A-B					9	14
A-C					91	136

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	18	5	525	0.034	18	0.0	0.0	7.659	A
C-AB	0.88	0.22	743	0.001	0.87	0.0	0.0	5.230	A
C-A	105	26			105				
A-B	8	2			8				
A-C	75	19			75				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	5	519	0.042	22	0.0	0.0	7.807	A
C-AB	1	0.27	752	0.001	1	0.0	0.0	5.169	A
C-A	125	31			125				
A-B	9	2			9				
A-C	89	22			89				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	26	7	510	0.052	26	0.0	0.1	8.016	A
C-AB	1	0.34	764	0.002	1	0.0	0.0	5.087	A
C-A	153	38			153				
A-B	11	3			11				
A-C	109	27			109				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	26	7	510	0.052	26	0.1	0.1	8.018	A
C-AB	1	0.34	764	0.002	1	0.0	0.0	5.087	A
C-A	153	38			153				
A-B	11	3			11				
A-C	109	27			109				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	5	519	0.042	22	0.1	0.0	7.810	A
C-AB	1	0.27	752	0.001	1	0.0	0.0	5.169	A
C-A	125	31			125				
A-B	9	2			9				
A-C	89	22			89				

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09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	18	5	525	0.034	18	0.0	0.0	7.666	A
C-AB	0.88	0.22	743	0.001	0.88	0.0	0.0	5.232	A
C-A	105	26			105				
A-B	8	2			8				
A-C	75	19			75				

2048 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.72	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2048 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	117	100.000
B		ONE HOUR	✓	25	100.000
C		ONE HOUR	✓	149	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	11	106
	B	18	0	7
	C	148	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.05	8.11	0.1	A	23	34
C-AB	0.00	5.21	0.0	A	1	2
C-A					136	203
A-B					10	15
A-C					97	146

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	19	5	521	0.036	19	0.0	0.0	7.725	A
C-AB	0.89	0.22	746	0.001	0.88	0.0	0.0	5.210	A
C-A	111	28			111				
A-B	8	2			8				
A-C	80	20			80				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	6	514	0.044	22	0.0	0.0	7.887	A
C-AB	1	0.27	755	0.001	1	0.0	0.0	5.146	A
C-A	133	33			133				
A-B	10	2			10				
A-C	95	24			95				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	506	0.054	27	0.0	0.1	8.113	A
C-AB	1	0.35	768	0.002	1	0.0	0.0	5.060	A
C-A	163	41			163				
A-B	12	3			12				
A-C	117	29			117				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	506	0.054	28	0.1	0.1	8.115	A
C-AB	1	0.35	768	0.002	1	0.0	0.0	5.060	A
C-A	163	41			163				
A-B	12	3			12				
A-C	117	29			117				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	6	514	0.044	23	0.1	0.0	7.890	A
C-AB	1	0.27	755	0.001	1	0.0	0.0	5.148	A
C-A	133	33			133				
A-B	10	2			10				
A-C	95	24			95				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	19	5	521	0.036	19	0.0	0.0	7.731	A
C-AB	0.89	0.22	746	0.001	0.89	0.0	0.0	5.212	A
C-A	111	28			111				
A-B	8	2			8				
A-C	80	20			80				

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2033 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.69	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2033 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	125	100.000
B		ONE HOUR	✓	24	100.000
C		ONE HOUR	✓	137	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	115
	B	16	0	8
	C	136	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.05	7.98	0.1	A	22	33
C-AB	0.00	5.26	0.0	A	1	2
C-A					125	187
A-B					9	14
A-C					106	158

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	18	5	528	0.034	18	0.0	0.0	7.611	A
C-AB	0.87	0.22	738	0.001	0.87	0.0	0.0	5.260	A
C-A	102	26			102				
A-B	8	2			8				
A-C	87	22			87				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	5	521	0.041	22	0.0	0.0	7.764	A
C-AB	1	0.27	747	0.001	1	0.0	0.0	5.205	A
C-A	122	31			122				
A-B	9	2			9				
A-C	103	26			103				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	26	7	513	0.052	26	0.0	0.1	7.980	A
C-AB	1	0.34	758	0.002	1	0.0	0.0	5.129	A
C-A	149	37			149				
A-B	11	3			11				
A-C	127	32			127				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	26	7	513	0.052	26	0.1	0.1	7.981	A
C-AB	1	0.34	758	0.002	1	0.0	0.0	5.131	A
C-A	149	37			149				
A-B	11	3			11				
A-C	127	32			127				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	5	521	0.041	22	0.1	0.0	7.765	A
C-AB	1	0.27	747	0.001	1	0.0	0.0	5.205	A
C-A	122	31			122				
A-B	9	2			9				
A-C	103	26			103				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	18	5	528	0.034	18	0.0	0.0	7.618	A
C-AB	0.87	0.22	738	0.001	0.88	0.0	0.0	5.260	A
C-A	102	26			102				
A-B	8	2			8				
A-C	87	22			87				

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2038 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.70	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2038 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	128	100.000
B		ONE HOUR	✓	25	100.000
C		ONE HOUR	✓	142	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	118
	B	17	0	8
	C	141	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.05	8.05	0.1	A	23	34
C-AB	0.00	5.25	0.0	A	1	2
C-A					129	194
A-B					9	14
A-C					108	162

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	19	5	525	0.036	19	0.0	0.0	7.664	A
C-AB	0.88	0.22	740	0.001	0.87	0.0	0.0	5.248	A
C-A	106	27			106				
A-B	8	2			8				
A-C	89	22			89				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	6	518	0.043	22	0.0	0.0	7.825	A
C-AB	1	0.27	749	0.001	1	0.0	0.0	5.190	A
C-A	127	32			127				
A-B	9	2			9				
A-C	106	27			106				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	509	0.054	27	0.0	0.1	8.053	A
C-AB	1	0.35	761	0.002	1	0.0	0.0	5.111	A
C-A	155	39			155				
A-B	11	3			11				
A-C	130	32			130				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	509	0.054	28	0.1	0.1	8.054	A
C-AB	1	0.35	761	0.002	1	0.0	0.0	5.113	A
C-A	155	39			155				
A-B	11	3			11				
A-C	130	32			130				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	6	518	0.043	23	0.1	0.0	7.827	A
C-AB	1	0.27	749	0.001	1	0.0	0.0	5.190	A
C-A	127	32			127				
A-B	9	2			9				
A-C	106	27			106				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	19	5	525	0.036	19	0.0	0.0	7.671	A
C-AB	0.88	0.22	740	0.001	0.88	0.0	0.0	5.248	A
C-A	106	27			106				
A-B	8	2			8				
A-C	89	22			89				

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2048 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.70	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2048 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	136	100.000
B		ONE HOUR	✓	26	100.000
C		ONE HOUR	✓	151	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	11	125
	B	18	0	8
	C	150	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	8.15	0.1	A	24	36
C-AB	0.00	5.23	0.0	A	1	2
C-A					137	206
A-B					10	15
A-C					115	172

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	521	0.038	19	0.0	0.0	7.732	A
C-AB	0.89	0.22	743	0.001	0.88	0.0	0.0	5.228	A
C-A	113	28			113				
A-B	8	2			8				
A-C	94	24			94				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	23	6	514	0.045	23	0.0	0.1	7.907	A
C-AB	1	0.27	752	0.001	1	0.0	0.0	5.166	A
C-A	135	34			135				
A-B	10	2			10				
A-C	112	28			112				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	29	7	505	0.057	29	0.1	0.1	8.153	A
C-AB	1	0.35	765	0.002	1	0.0	0.0	5.083	A
C-A	165	41			165				
A-B	12	3			12				
A-C	138	34			138				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	29	7	505	0.057	29	0.1	0.1	8.154	A
C-AB	1	0.35	765	0.002	1	0.0	0.0	5.083	A
C-A	165	41			165				
A-B	12	3			12				
A-C	138	34			138				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	23	6	514	0.045	23	0.1	0.1	7.910	A
C-AB	1	0.27	752	0.001	1	0.0	0.0	5.168	A
C-A	135	34			135				
A-B	10	2			10				
A-C	112	28			112				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	521	0.038	20	0.1	0.0	7.738	A
C-AB	0.89	0.22	743	0.001	0.89	0.0	0.0	5.230	A
C-A	113	28			113				
A-B	8	2			8				
A-C	94	24			94				

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2029 Without Development, PM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.41	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2029 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	141	100.000
B		ONE HOUR	✓	9	100.000
C		ONE HOUR	✓	132	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	131
	B	9	0	0
	C	126	6	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	8.53	0.0	A	8	12
C-AB	0.01	5.35	0.0	A	7	10
C-A					115	172
A-B					9	14
A-C					120	180

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	482	0.014	7	0.0	0.0	8.160	A
C-AB	5	1	731	0.007	5	0.0	0.0	5.347	A
C-A	94	24			94				
A-B	8	2			8				
A-C	99	25			99				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	475	0.017	8	0.0	0.0	8.313	A
C-AB	6	2	737	0.009	6	0.0	0.0	5.307	A
C-A	112	28			112				
A-B	9	2			9				
A-C	118	29			118				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	465	0.021	10	0.0	0.0	8.532	A
C-AB	8	2	747	0.011	8	0.0	0.0	5.253	A
C-A	137	34			137				
A-B	11	3			11				
A-C	144	36			144				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	465	0.021	10	0.0	0.0	8.532	A
C-AB	8	2	747	0.011	8	0.0	0.0	5.255	A
C-A	137	34			137				
A-B	11	3			11				
A-C	144	36			144				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	475	0.017	8	0.0	0.0	8.314	A
C-AB	6	2	737	0.009	6	0.0	0.0	5.309	A
C-A	112	28			112				
A-B	9	2			9				
A-C	118	29			118				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	482	0.014	7	0.0	0.0	8.162	A
C-AB	5	1	731	0.007	5	0.0	0.0	5.349	A
C-A	94	24			94				
A-B	8	2			8				
A-C	99	25			99				

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2029 With Construction, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.41	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2029 With Construction	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	141	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	208	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	131
	B	10	0	0
	C	199	9	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	8.80	0.0	A	9	14
C-AB	0.02	5.13	0.0	A	11	16
C-A					180	270
A-B					9	14
A-C					120	180

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	474	0.016	7	0.0	0.0	8.322	A
C-AB	8	2	765	0.011	8	0.0	0.0	5.126	A
C-A	148	37			148				
A-B	8	2			8				
A-C	99	25			99				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	465	0.019	9	0.0	0.0	8.515	A
C-AB	11	3	779	0.014	11	0.0	0.0	5.050	A
C-A	176	44			176				
A-B	9	2			9				
A-C	118	29			118				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	452	0.024	11	0.0	0.0	8.795	A
C-AB	14	3	798	0.017	14	0.0	0.0	4.949	A
C-A	215	54			215				
A-B	11	3			11				
A-C	144	36			144				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	452	0.024	11	0.0	0.0	8.795	A
C-AB	14	3	798	0.017	14	0.0	0.0	4.949	A
C-A	215	54			215				
A-B	11	3			11				
A-C	144	36			144				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	465	0.019	9	0.0	0.0	8.518	A
C-AB	11	3	779	0.014	11	0.0	0.0	5.053	A
C-A	176	44			176				
A-B	9	2			9				
A-C	118	29			118				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	474	0.016	8	0.0	0.0	8.326	A
C-AB	8	2	765	0.011	8	0.0	0.0	5.127	A
C-A	148	37			148				
A-B	8	2			8				
A-C	99	25			99				

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2033 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.40	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2033 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	145	100.000
B		ONE HOUR	✓	9	100.000
C		ONE HOUR	✓	135	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	135
	B	9	0	0
	C	129	6	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	8.56	0.0	A	8	12
C-AB	0.01	5.34	0.0	A	7	10
C-A					117	176
A-B					9	14
A-C					124	186

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	481	0.014	7	0.0	0.0	8.177	A
C-AB	5	1	732	0.007	5	0.0	0.0	5.342	A
C-A	96	24			96				
A-B	8	2			8				
A-C	102	25			102				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	474	0.017	8	0.0	0.0	8.334	A
C-AB	6	2	738	0.009	6	0.0	0.0	5.301	A
C-A	115	29			115				
A-B	9	2			9				
A-C	121	30			121				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	463	0.021	10	0.0	0.0	8.560	A
C-AB	8	2	748	0.011	8	0.0	0.0	5.246	A
C-A	140	35			140				
A-B	11	3			11				
A-C	149	37			149				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	463	0.021	10	0.0	0.0	8.560	A
C-AB	8	2	748	0.011	8	0.0	0.0	5.246	A
C-A	140	35			140				
A-B	11	3			11				
A-C	149	37			149				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	474	0.017	8	0.0	0.0	8.335	A
C-AB	6	2	738	0.009	6	0.0	0.0	5.304	A
C-A	115	29			115				
A-B	9	2			9				
A-C	121	30			121				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	481	0.014	7	0.0	0.0	8.181	A
C-AB	5	1	732	0.007	5	0.0	0.0	5.342	A
C-A	96	24			96				
A-B	8	2			8				
A-C	102	25			102				

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2038 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.39	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2038 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	149	100.000
B		ONE HOUR	✓	9	100.000
C		ONE HOUR	✓	140	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	139
	B	9	0	0
	C	134	6	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	8.59	0.0	A	8	12
C-AB	0.01	5.33	0.0	A	7	10
C-A					122	183
A-B					9	14
A-C					128	191

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	480	0.014	7	0.0	0.0	8.198	A
C-AB	5	1	733	0.007	5	0.0	0.0	5.330	A
C-A	100	25			100				
A-B	8	2			8				
A-C	105	26			105				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	472	0.017	8	0.0	0.0	8.360	A
C-AB	6	2	740	0.009	6	0.0	0.0	5.287	A
C-A	119	30			119				
A-B	9	2			9				
A-C	125	31			125				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	461	0.021	10	0.0	0.0	8.593	A
C-AB	8	2	750	0.011	8	0.0	0.0	5.229	A
C-A	146	36			146				
A-B	11	3			11				
A-C	153	38			153				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	461	0.021	10	0.0	0.0	8.593	A
C-AB	8	2	750	0.011	8	0.0	0.0	5.229	A
C-A	146	36			146				
A-B	11	3			11				
A-C	153	38			153				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	472	0.017	8	0.0	0.0	8.363	A
C-AB	6	2	740	0.009	6	0.0	0.0	5.290	A
C-A	119	30			119				
A-B	9	2			9				
A-C	125	31			125				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	480	0.014	7	0.0	0.0	8.200	A
C-AB	5	1	733	0.007	5	0.0	0.0	5.330	A
C-A	100	25			100				
A-B	8	2			8				
A-C	105	26			105				

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2048 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.42	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2048 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	159	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	149	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	11	148
	B	10	0	0
	C	142	7	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	8.69	0.0	A	9	14
C-AB	0.01	5.32	0.0	A	8	12
C-A					129	193
A-B					10	15
A-C					136	204

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	477	0.016	7	0.0	0.0	8.258	A
C-AB	6	2	735	0.008	6	0.0	0.0	5.323	A
C-A	106	27			106				
A-B	8	2			8				
A-C	111	28			111				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	469	0.019	9	0.0	0.0	8.435	A
C-AB	8	2	743	0.010	8	0.0	0.0	5.278	A
C-A	126	32			126				
A-B	10	2			10				
A-C	133	33			133				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	458	0.024	11	0.0	0.0	8.690	A
C-AB	10	2	753	0.013	10	0.0	0.0	5.218	A
C-A	154	39			154				
A-B	12	3			12				
A-C	163	41			163				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	458	0.024	11	0.0	0.0	8.690	A
C-AB	10	2	753	0.013	10	0.0	0.0	5.220	A
C-A	154	39			154				
A-B	12	3			12				
A-C	163	41			163				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	469	0.019	9	0.0	0.0	8.438	A
C-AB	8	2	743	0.010	8	0.0	0.0	5.281	A
C-A	126	32			126				
A-B	10	2			10				
A-C	133	33			133				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	477	0.016	8	0.0	0.0	8.262	A
C-AB	6	2	735	0.008	6	0.0	0.0	5.325	A
C-A	106	27			106				
A-B	8	2			8				
A-C	111	28			111				

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2033 With Operational Development, PM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.39	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D14	2033 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	145	100.000
B		ONE HOUR	✓	9	100.000
C		ONE HOUR	✓	159	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	135
	B	9	0	0
	C	152	7	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

RECEIVED: 08/07/2025

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	8.64	0.0	A	8	12
C-AB	0.01	5.27	0.0	A	8	12
C-A					138	207
A-B					9	14
A-C					124	186

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	479	0.014	7	0.0	0.0	8.224	A
C-AB	6	2	742	0.008	6	0.0	0.0	5.271	A
C-A	113	28			113				
A-B	8	2			8				
A-C	102	25			102				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	470	0.017	8	0.0	0.0	8.392	A
C-AB	8	2	751	0.010	8	0.0	0.0	5.218	A
C-A	135	34			135				
A-B	9	2			9				
A-C	121	30			121				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	459	0.022	10	0.0	0.0	8.635	A
C-AB	10	2	764	0.013	10	0.0	0.0	5.146	A
C-A	165	41			165				
A-B	11	3			11				
A-C	149	37			149				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	459	0.022	10	0.0	0.0	8.635	A
C-AB	10	2	764	0.013	10	0.0	0.0	5.148	A
C-A	165	41			165				
A-B	11	3			11				
A-C	149	37			149				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	470	0.017	8	0.0	0.0	8.393	A
C-AB	8	2	751	0.010	8	0.0	0.0	5.218	A
C-A	135	34			135				
A-B	9	2			9				
A-C	121	30			121				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	479	0.014	7	0.0	0.0	8.228	A
C-AB	6	2	742	0.008	6	0.0	0.0	5.273	A
C-A	113	28			113				
A-B	8	2			8				
A-C	102	25			102				

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2038 With Operational Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.38	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D15	2038 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	150	100.000
B		ONE HOUR	✓	9	100.000
C		ONE HOUR	✓	164	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	140
	B	9	0	0
	C	157	7	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	8.67	0.0	A	8	12
C-AB	0.01	5.26	0.0	A	8	12
C-A					142	214
A-B					9	14
A-C					128	193

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	477	0.014	7	0.0	0.0	8.248	A
C-AB	6	2	744	0.008	6	0.0	0.0	5.260	A
C-A	117	29			117				
A-B	8	2			8				
A-C	105	26			105				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	469	0.017	8	0.0	0.0	8.423	A
C-AB	8	2	753	0.010	8	0.0	0.0	5.206	A
C-A	140	35			140				
A-B	9	2			9				
A-C	126	31			126				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	457	0.022	10	0.0	0.0	8.674	A
C-AB	10	2	766	0.013	10	0.0	0.0	5.131	A
C-A	171	43			171				
A-B	11	3			11				
A-C	154	39			154				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	10	2	457	0.022	10	0.0	0.0	8.674	A
C-AB	10	2	766	0.013	10	0.0	0.0	5.133	A
C-A	171	43			171				
A-B	11	3			11				
A-C	154	39			154				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	469	0.017	8	0.0	0.0	8.423	A
C-AB	8	2	753	0.010	8	0.0	0.0	5.208	A
C-A	140	35			140				
A-B	9	2			9				
A-C	126	31			126				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	7	2	477	0.014	7	0.0	0.0	8.252	A
C-AB	6	2	744	0.008	6	0.0	0.0	5.263	A
C-A	117	29			117				
A-B	8	2			8				
A-C	105	26			105				

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2048 With Operational Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L11272 Junction	T-Junction	Two-way		0.41	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D16	2048 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	160	100.000
B		ONE HOUR	✓	10	100.000
C		ONE HOUR	✓	173	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	11	149
	B	10	0	0
	C	165	8	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	8.77	0.0	A	9	14
C-AB	0.02	5.25	0.0	A	9	14
C-A					150	224
A-B					10	15
A-C					137	205

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	474	0.016	7	0.0	0.0	8.309	A
C-AB	7	2	746	0.010	7	0.0	0.0	5.253	A
C-A	123	31			123				
A-B	8	2			8				
A-C	112	28			112				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	466	0.019	9	0.0	0.0	8.499	A
C-AB	9	2	756	0.012	9	0.0	0.0	5.197	A
C-A	147	37			147				
A-B	10	2			10				
A-C	134	33			134				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	453	0.024	11	0.0	0.0	8.773	A
C-AB	12	3	769	0.015	12	0.0	0.0	5.121	A
C-A	179	45			179				
A-B	12	3			12				
A-C	164	41			164				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	453	0.024	11	0.0	0.0	8.773	A
C-AB	12	3	769	0.015	12	0.0	0.0	5.121	A
C-A	179	45			179				
A-B	12	3			12				
A-C	164	41			164				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	466	0.019	9	0.0	0.0	8.500	A
C-AB	9	2	756	0.012	9	0.0	0.0	5.197	A
C-A	147	37			147				
A-B	10	2			10				
A-C	134	33			134				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	474	0.016	8	0.0	0.0	8.311	A
C-AB	7	2	746	0.010	7	0.0	0.0	5.253	A
C-A	123	31			123				
A-B	8	2			8				
A-C	112	28			112				

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Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.5.2.1013
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Filename: L1127.j9
Path: \\192.168.1.33
\ttrsa\projects\T241206_Westmeath_Admiral_Datacentre_Solar_Farm_EIAR_MMP_S1_RSA\eiar_chapter\modelling\L1127
Report generation date: 08/07/2025 11:30:36

»2029 Without Development, AM
»2029 With Construction, AM
»2033 Without Development, AM
»2038 Without Development, AM
»2048 Without Development, AM
»2033 With Operational Development, AM
»2038 With Operational Development, AM
»2048 With Operational Development, AM
»2029 Without Development, PM
»2029 With Construction, PM
»2033 Without Development, PM
»2038 Without Development, PM
»2048 Without Development, PM
»2033 With Operational Development, PM
»2038 With Operational Development, PM
»2048 With Operational Development, PM

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Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2029 Without Development									
Stream B-AC	D1	0.6	10.54	0.35	B	D9	0.3	8.83	0.22	A
Stream C-AB		0.6	9.69	0.37	A		0.2	7.23	0.16	A
	2029 With Construction									
Stream B-AC	D2	0.6	11.03	0.36	B	D10	0.3	9.23	0.22	A
Stream C-AB		0.7	9.70	0.37	A		0.2	7.53	0.16	A
	2033 Without Development									
Stream B-AC	D3	0.6	10.77	0.36	B	D11	0.3	8.90	0.22	A
Stream C-AB		0.7	9.87	0.38	A		0.2	7.29	0.16	A
	2038 Without Development									
Stream B-AC	D4	0.6	11.10	0.37	B	D12	0.3	9.04	0.23	A
Stream C-AB		0.7	10.11	0.40	B		0.2	7.36	0.17	A
	2048 Without Development									
Stream B-AC	D5	0.7	11.76	0.40	B	D13	0.4	9.34	0.25	A
Stream C-AB		0.8	10.62	0.43	B		0.2	7.50	0.18	A
	2033 With Operational Development									
Stream B-AC	D6	0.6	11.07	0.37	B	D14	0.3	9.08	0.23	A
Stream C-AB		0.7	9.87	0.39	A		0.2	7.39	0.17	A
	2038 With Operational Development									
Stream B-AC	D7	0.7	11.41	0.38	B	D15	0.3	9.23	0.23	A
Stream C-AB		0.7	10.10	0.40	B		0.2	7.46	0.17	A
	2048 With Operational Development									
Stream B-AC	D8	0.8	12.10	0.41	B	D16	0.4	9.48	0.25	A
Stream C-AB		0.8	10.61	0.43	B		0.2	7.60	0.18	A

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

File summary

File Description

Title	Admiral
Location	R446/L1127 Junction
Site number	
Date	08/07/2025
Version	EIAR
Status	Final
Identifier	
Client	Halston
Jobnumber	241206
Enumerator	TTRSA
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Construction	AM	ONE HOUR	08:00	09:30	15	✓
D3	2033 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D4	2038 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D5	2048 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D6	2033 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D7	2038 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D8	2048 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D9	2029 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D10	2029 With Construction	PM	ONE HOUR	16:45	18:15	15	✓
D11	2033 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D12	2038 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D13	2048 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D14	2033 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓
D15	2038 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓
D16	2048 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

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Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2029 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		5.22	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	R446 to/from West		Major
B	L1127 Local Road		Minor
C	R446 to/from East		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.00		✓	2.50	160.0	✓	3.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	3.70	19	15

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	526	0.096	0.242	0.152	0.346
B-C	678	0.104	0.263	-	-
C-B	688	0.267	0.267	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

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Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	206	100.000
B		ONE HOUR	✓	178	100.000
C		ONE HOUR	✓	375	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	78	128
	B	31	0	147
	C	162	213	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.35	10.54	0.6	B	163	245
C-AB	0.37	9.69	0.6	A	198	296
C-A					147	220
A-B					72	107
A-C					117	176

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	134	34	592	0.226	133	0.0	0.3	8.432	A
C-AB	161	40	650	0.248	160	0.0	0.4	7.899	A
C-A	121	30			121				
A-B	59	15			59				
A-C	96	24			96				

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08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	160	40	580	0.276	160	0.3	0.4	9.214	A
C-AB	193	48	644	0.300	193	0.4	0.5	8.587	A
C-A	144	36			144				
A-B	70	18			70				
A-C	115	29			115				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	196	49	564	0.347	195	0.4	0.6	10.498	B
C-AB	239	60	639	0.374	238	0.5	0.6	9.653	A
C-A	174	44			174				
A-B	86	21			86				
A-C	141	35			141				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	196	49	564	0.347	196	0.6	0.6	10.537	B
C-AB	239	60	639	0.374	239	0.6	0.6	9.687	A
C-A	174	44			174				
A-B	86	21			86				
A-C	141	35			141				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	160	40	580	0.276	161	0.6	0.4	9.262	A
C-AB	193	48	644	0.300	194	0.6	0.5	8.632	A
C-A	144	36			144				
A-B	70	18			70				
A-C	115	29			115				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	134	34	592	0.227	134	0.4	0.3	8.495	A
C-AB	161	40	650	0.248	161	0.5	0.4	7.957	A
C-A	121	30			121				
A-B	59	15			59				
A-C	96	24			96				

2029 With Construction, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		5.17	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2029 With Construction	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	212	100.000
B		ONE HOUR	✓	183	100.000
C		ONE HOUR	✓	400	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	80	132
	B	36	0	147
	C	187	213	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.36	11.03	0.6	B	168	252
C-AB	0.37	9.70	0.7	A	198	297
C-A					169	254
A-B					73	110
A-C					121	182

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	138	34	583	0.236	136	0.0	0.3	8.659	A
C-AB	161	40	649	0.248	160	0.0	0.4	7.912	A
C-A	140	35			140				
A-B	60	15			60				
A-C	99	25			99				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	165	41	571	0.288	164	0.3	0.4	9.529	A
C-AB	193	48	643	0.300	193	0.4	0.5	8.604	A
C-A	166	42			166				
A-B	72	18			72				
A-C	119	30			119				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	201	50	553	0.364	201	0.4	0.6	10.987	B
C-AB	240	60	640	0.375	239	0.5	0.6	9.667	A
C-A	201	50			201				
A-B	88	22			88				
A-C	145	36			145				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	201	50	553	0.364	201	0.6	0.6	11.031	B
C-AB	240	60	640	0.375	240	0.6	0.7	9.704	A
C-A	201	50			201				
A-B	88	22			88				
A-C	145	36			145				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	165	41	571	0.288	165	0.6	0.4	9.585	A
C-AB	193	48	643	0.300	194	0.7	0.5	8.649	A
C-A	166	42			166				
A-B	72	18			72				
A-C	119	30			119				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	138	34	583	0.236	138	0.4	0.3	8.732	A
C-AB	161	40	649	0.248	162	0.5	0.4	7.972	A
C-A	140	35			140				
A-B	60	15			60				
A-C	99	25			99				

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2033 Without Development, AM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		5.34	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2033 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	211	100.000
B		ONE HOUR	✓	183	100.000
C		ONE HOUR	✓	385	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	80	131
	B	32	0	151
	C	166	219	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.36	10.77	0.6	B	168	252
C-AB	0.38	9.87	0.7	A	203	305
C-A					150	225
A-B					73	110
A-C					120	180

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	138	34	590	0.233	136	0.0	0.3	8.531	A
C-AB	166	41	649	0.255	164	0.0	0.4	7.983	A
C-A	124	31			124				
A-B	60	15			60				
A-C	99	25			99				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	165	41	578	0.284	164	0.3	0.4	9.356	A
C-AB	199	50	643	0.309	198	0.4	0.5	8.706	A
C-A	147	37			147				
A-B	72	18			72				
A-C	118	29			118				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	201	50	562	0.359	201	0.4	0.6	10.732	B
C-AB	246	62	639	0.385	245	0.5	0.7	9.832	A
C-A	178	44			178				
A-B	88	22			88				
A-C	144	36			144				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	201	50	562	0.359	201	0.6	0.6	10.773	B
C-AB	246	62	639	0.385	246	0.7	0.7	9.871	A
C-A	178	44			178				
A-B	88	22			88				
A-C	144	36			144				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	165	41	578	0.285	165	0.6	0.4	9.411	A
C-AB	199	50	643	0.309	199	0.7	0.5	8.756	A
C-A	147	37			147				
A-B	72	18			72				
A-C	118	29			118				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	138	34	590	0.234	138	0.4	0.3	8.598	A
C-AB	166	41	649	0.255	166	0.5	0.4	8.048	A
C-A	124	31			124				
A-B	60	15			60				
A-C	99	25			99				

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2038 Without Development, AM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		5.48	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2038 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	219	100.000
B		ONE HOUR	✓	190	100.000
C		ONE HOUR	✓	398	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	83	136
	B	33	0	157
	C	172	226	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.37	11.10	0.6	B	174	262
C-AB	0.40	10.11	0.7	B	210	315
C-A					155	232
A-B					76	114
A-C					125	187

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	143	36	588	0.243	142	0.0	0.3	8.662	A
C-AB	171	43	648	0.264	169	0.0	0.4	8.091	A
C-A	129	32			129				
A-B	62	16			62				
A-C	102	26			102				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	171	43	576	0.296	170	0.3	0.4	9.554	A
C-AB	205	51	642	0.320	205	0.4	0.5	8.859	A
C-A	153	38			153				
A-B	75	19			75				
A-C	122	31			122				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	209	52	559	0.374	208	0.4	0.6	11.052	B
C-AB	255	64	639	0.399	254	0.5	0.7	10.062	B
C-A	184	46			184				
A-B	91	23			91				
A-C	150	37			150				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	209	52	559	0.374	209	0.6	0.6	11.101	B
C-AB	255	64	639	0.399	255	0.7	0.7	10.106	B
C-A	184	46			184				
A-B	91	23			91				
A-C	150	37			150				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	171	43	576	0.297	172	0.6	0.5	9.612	A
C-AB	205	51	642	0.320	206	0.7	0.5	8.914	A
C-A	153	38			153				
A-B	75	19			75				
A-C	122	31			122				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	143	36	588	0.243	143	0.5	0.4	8.737	A
C-AB	171	43	648	0.264	171	0.5	0.4	8.161	A
C-A	129	32			129				
A-B	62	16			62				
A-C	102	26			102				

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2048 Without Development, AM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		5.80	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2048 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	233	100.000
B		ONE HOUR	✓	202	100.000
C		ONE HOUR	✓	424	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	88	145
	B	35	0	167
	C	183	241	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

RECEIVED: 08/07/2025

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.40	11.76	0.7	B	185	278
C-AB	0.43	10.62	0.8	B	225	338
C-A					164	246
A-B					81	121
A-C					133	200

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	152	38	585	0.260	151	0.0	0.4	8.914	A
C-AB	183	46	646	0.283	181	0.0	0.4	8.320	A
C-A	137	34			137				
A-B	66	17			66				
A-C	109	27			109				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	182	45	571	0.318	181	0.4	0.5	9.931	A
C-AB	220	55	641	0.343	219	0.4	0.6	9.186	A
C-A	162	40			162				
A-B	79	20			79				
A-C	130	33			130				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	222	56	553	0.403	222	0.5	0.7	11.693	B
C-AB	273	68	639	0.428	272	0.6	0.8	10.563	B
C-A	193	48			193				
A-B	97	24			97				
A-C	160	40			160				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	222	56	552	0.403	222	0.7	0.7	11.757	B
C-AB	273	68	639	0.428	273	0.8	0.8	10.621	B
C-A	193	48			193				
A-B	97	24			97				
A-C	160	40			160				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	182	45	571	0.318	182	0.7	0.5	10.004	B
C-AB	220	55	641	0.343	220	0.8	0.6	9.254	A
C-A	162	40			162				
A-B	79	20			79				
A-C	130	33			130				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	152	38	584	0.260	153	0.5	0.4	9.000	A
C-AB	183	46	646	0.283	183	0.6	0.4	8.401	A
C-A	137	34			137				
A-B	66	17			66				
A-C	109	27			109				

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2033 With Operational Development, AM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		5.31	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2033 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	214	100.000
B		ONE HOUR	✓	186	100.000
C		ONE HOUR	✓	401	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	81	133
	B	35	0	151
	C	182	219	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

RECEIVED: 08/07/2025

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.37	11.07	0.6	B	171	256
C-AB	0.39	9.87	0.7	A	204	306
C-A					164	246
A-B					74	111
A-C					122	183

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	140	35	585	0.239	139	0.0	0.3	8.666	A
C-AB	166	41	648	0.255	164	0.0	0.4	7.990	A
C-A	136	34			136				
A-B	61	15			61				
A-C	100	25			100				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	167	42	573	0.292	167	0.3	0.4	9.548	A
C-AB	199	50	643	0.309	198	0.4	0.5	8.713	A
C-A	162	40			162				
A-B	73	18			73				
A-C	120	30			120				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	205	51	555	0.369	204	0.4	0.6	11.028	B
C-AB	247	62	640	0.385	246	0.5	0.7	9.835	A
C-A	195	49			195				
A-B	89	22			89				
A-C	146	37			146				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	205	51	555	0.369	205	0.6	0.6	11.075	B
C-AB	247	62	640	0.385	247	0.7	0.7	9.874	A
C-A	195	49			195				
A-B	89	22			89				
A-C	146	37			146				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	167	42	573	0.292	168	0.6	0.5	9.606	A
C-AB	199	50	643	0.309	200	0.7	0.5	8.761	A
C-A	162	40			162				
A-B	73	18			73				
A-C	120	30			120				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	140	35	585	0.239	140	0.5	0.3	8.741	A
C-AB	166	41	648	0.255	166	0.5	0.4	8.055	A
C-A	136	34			136				
A-B	61	15			61				
A-C	100	25			100				

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2038 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		5.46	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2038 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	221	100.000
B		ONE HOUR	✓	193	100.000
C		ONE HOUR	✓	414	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	84	137
	B	36	0	157
	C	188	226	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.38	11.41	0.7	B	177	266
C-AB	0.40	10.10	0.7	B	211	316
C-A					169	254
A-B					77	116
A-C					126	189

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	145	36	584	0.249	144	0.0	0.4	8.796	A
C-AB	171	43	647	0.264	170	0.0	0.4	8.094	A
C-A	141	35			141				
A-B	63	16			63				
A-C	103	26			103				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	174	43	571	0.304	173	0.4	0.5	9.744	A
C-AB	205	51	642	0.320	205	0.4	0.5	8.860	A
C-A	167	42			167				
A-B	76	19			76				
A-C	123	31			123				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	212	53	553	0.385	212	0.5	0.7	11.354	B
C-AB	255	64	640	0.399	254	0.5	0.7	10.056	B
C-A	201	50			201				
A-B	92	23			92				
A-C	151	38			151				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	212	53	553	0.385	212	0.7	0.7	11.410	B
C-AB	255	64	640	0.399	255	0.7	0.7	10.098	B
C-A	201	50			201				
A-B	92	23			92				
A-C	151	38			151				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	174	43	571	0.304	174	0.7	0.5	9.809	A
C-AB	205	51	642	0.320	206	0.7	0.5	8.916	A
C-A	167	42			167				
A-B	76	19			76				
A-C	123	31			123				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	145	36	583	0.249	146	0.5	0.4	8.876	A
C-AB	171	43	647	0.264	172	0.5	0.4	8.163	A
C-A	141	35			141				
A-B	63	16			63				
A-C	103	26			103				

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2048 With Operational Development, AM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		5.78	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2048 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	235	100.000
B		ONE HOUR	✓	205	100.000
C		ONE HOUR	✓	440	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	89	146
	B	38	0	167
	C	199	241	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.41	12.10	0.8	B	188	282
C-AB	0.43	10.61	0.8	B	226	338
C-A					178	267
A-B					82	123
A-C					134	201

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	154	39	580	0.266	153	0.0	0.4	9.054	A
C-AB	183	46	646	0.283	181	0.0	0.4	8.323	A
C-A	149	37			149				
A-B	67	17			67				
A-C	110	27			110				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	184	46	566	0.326	184	0.4	0.5	10.137	B
C-AB	220	55	641	0.343	219	0.4	0.6	9.186	A
C-A	176	44			176				
A-B	80	20			80				
A-C	131	33			131				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	226	56	546	0.413	225	0.5	0.7	12.032	B
C-AB	274	69	640	0.428	273	0.6	0.8	10.552	B
C-A	210	53			210				
A-B	98	24			98				
A-C	161	40			161				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	226	56	546	0.413	226	0.7	0.8	12.099	B
C-AB	274	69	640	0.428	274	0.8	0.8	10.610	B
C-A	210	53			210				
A-B	98	24			98				
A-C	161	40			161				

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09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	184	46	566	0.326	185	0.8	0.5	10.215	B
C-AB	220	55	641	0.343	221	0.8	0.6	9.254	A
C-A	176	44			176				
A-B	80	20			80				
A-C	131	33			131				

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	154	39	580	0.266	155	0.5	0.4	9.149	A
C-AB	183	46	646	0.283	183	0.6	0.4	8.405	A
C-A	149	37			149				
A-B	67	17			67				
A-C	110	27			110				

2029 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		3.02	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2029 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	175	100.000
B		ONE HOUR	✓	110	100.000
C		ONE HOUR	✓	257	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	29	146
	B	28	0	82
	C	165	92	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.22	8.83	0.3	A	101	151
C-AB	0.16	7.23	0.2	A	85	127
C-A					151	227
A-B					27	40
A-C					134	201

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	83	21	584	0.142	82	0.0	0.2	7.727	A
C-AB	69	17	653	0.106	69	0.0	0.1	6.631	A
C-A	124	31			124				
A-B	22	5			22				
A-C	110	27			110				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	99	25	574	0.172	99	0.2	0.2	8.159	A
C-AB	83	21	647	0.128	83	0.1	0.2	6.875	A
C-A	148	37			148				
A-B	26	7			26				
A-C	131	33			131				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	121	30	561	0.216	121	0.2	0.3	8.821	A
C-AB	101	25	638	0.159	101	0.2	0.2	7.228	A
C-A	181	45			181				
A-B	32	8			32				
A-C	161	40			161				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	121	30	560	0.216	121	0.3	0.3	8.832	A
C-AB	101	25	638	0.159	101	0.2	0.2	7.231	A
C-A	181	45			181				
A-B	32	8			32				
A-C	161	40			161				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	99	25	574	0.172	99	0.3	0.2	8.180	A
C-AB	83	21	647	0.128	83	0.2	0.2	6.885	A
C-A	148	37			148				
A-B	26	7			26				
A-C	131	33			131				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	83	21	584	0.142	83	0.2	0.2	7.757	A
C-AB	69	17	653	0.106	69	0.2	0.1	6.644	A
C-A	124	31			124				
A-B	22	5			22				
A-C	110	27			110				

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2029 With Construction, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		2.78	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2029 With Construction	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	248	100.000
B		ONE HOUR	✓	110	100.000
C		ONE HOUR	✓	257	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	41	207
	B	28	0	82
	C	165	92	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.22	9.23	0.3	A	101	151
C-AB	0.16	7.53	0.2	A	85	127
C-A					151	227
A-B					38	56
A-C					190	285

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	83	21	571	0.145	82	0.0	0.2	7.930	A
C-AB	69	17	639	0.108	69	0.0	0.1	6.802	A
C-A	124	31			124				
A-B	31	8			31				
A-C	156	39			156				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	99	25	558	0.177	99	0.2	0.2	8.437	A
C-AB	83	21	629	0.132	83	0.1	0.2	7.095	A
C-A	148	37			148				
A-B	37	9			37				
A-C	186	47			186				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	121	30	541	0.224	121	0.2	0.3	9.219	A
C-AB	101	25	617	0.165	101	0.2	0.2	7.529	A
C-A	181	45			181				
A-B	45	11			45				
A-C	228	57			228				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	121	30	541	0.224	121	0.3	0.3	9.232	A
C-AB	101	25	617	0.165	101	0.2	0.2	7.530	A
C-A	181	45			181				
A-B	45	11			45				
A-C	228	57			228				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	99	25	558	0.177	99	0.3	0.2	8.457	A
C-AB	83	21	629	0.132	83	0.2	0.2	7.103	A
C-A	148	37			148				
A-B	37	9			37				
A-C	186	47			186				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	83	21	571	0.145	83	0.2	0.2	7.962	A
C-AB	69	17	639	0.108	69	0.2	0.1	6.818	A
C-A	124	31			124				
A-B	31	8			31				
A-C	156	39			156				

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2033 Without Development, PM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		3.03	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2033 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	180	100.000
B		ONE HOUR	✓	112	100.000
C		ONE HOUR	✓	265	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	30	150
	B	28	0	84
	C	170	95	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.22	8.90	0.3	A	103	154
C-AB	0.16	7.29	0.2	A	87	131
C-A					156	234
A-B					28	41
A-C					138	206

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	84	21	583	0.145	84	0.0	0.2	7.757	A
C-AB	72	18	653	0.110	71	0.0	0.1	6.668	A
C-A	128	32			128				
A-B	23	6			23				
A-C	113	28			113				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	101	25	573	0.176	100	0.2	0.2	8.204	A
C-AB	85	21	646	0.132	85	0.1	0.2	6.922	A
C-A	153	38			153				
A-B	27	7			27				
A-C	135	34			135				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	123	31	559	0.220	123	0.2	0.3	8.884	A
C-AB	105	26	637	0.165	105	0.2	0.2	7.291	A
C-A	187	47			187				
A-B	33	8			33				
A-C	165	41			165				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	123	31	559	0.220	123	0.3	0.3	8.897	A
C-AB	105	26	637	0.165	105	0.2	0.2	7.294	A
C-A	187	47			187				
A-B	33	8			33				
A-C	165	41			165				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	101	25	573	0.176	101	0.3	0.2	8.221	A
C-AB	85	21	646	0.132	86	0.2	0.2	6.932	A
C-A	153	38			153				
A-B	27	7			27				
A-C	135	34			135				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	84	21	583	0.145	85	0.2	0.2	7.786	A
C-AB	72	18	653	0.110	72	0.2	0.1	6.682	A
C-A	128	32			128				
A-B	23	6			23				
A-C	113	28			113				

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		3.07	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2038 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	186	100.000
B		ONE HOUR	✓	116	100.000
C		ONE HOUR	✓	274	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	31	155
	B	29	0	87
	C	176	98	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.23	9.04	0.3	A	106	160
C-AB	0.17	7.36	0.2	A	90	135
C-A					161	242
A-B					28	43
A-C					142	213

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	87	22	582	0.150	87	0.0	0.2	7.829	A
C-AB	74	18	651	0.113	73	0.0	0.1	6.708	A
C-A	132	33			132				
A-B	23	6			23				
A-C	117	29			117				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	104	26	571	0.183	104	0.2	0.2	8.303	A
C-AB	88	22	644	0.137	88	0.1	0.2	6.973	A
C-A	158	40			158				
A-B	28	7			28				
A-C	139	35			139				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	128	32	557	0.229	127	0.2	0.3	9.028	A
C-AB	108	27	635	0.170	108	0.2	0.2	7.361	A
C-A	194	48			194				
A-B	34	9			34				
A-C	171	43			171				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	128	32	557	0.229	128	0.3	0.3	9.041	A
C-AB	108	27	635	0.170	108	0.2	0.2	7.362	A
C-A	194	48			194				
A-B	34	9			34				
A-C	171	43			171				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	104	26	571	0.183	105	0.3	0.2	8.323	A
C-AB	88	22	644	0.137	88	0.2	0.2	6.983	A
C-A	158	40			158				
A-B	28	7			28				
A-C	139	35			139				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	87	22	581	0.150	88	0.2	0.2	7.860	A
C-AB	74	18	651	0.113	74	0.2	0.1	6.721	A
C-A	132	33			132				
A-B	23	6			23				
A-C	117	29			117				

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		3.16	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2048 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	198	100.000
B		ONE HOUR	✓	124	100.000
C		ONE HOUR	✓	291	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	33	165
	B	31	0	93
	C	187	104	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.25	9.34	0.4	A	114	171
C-AB	0.18	7.50	0.2	A	96	143
C-A					171	257
A-B					30	45
A-C					151	227

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	93	23	578	0.161	93	0.0	0.2	7.976	A
C-AB	78	20	649	0.121	78	0.0	0.1	6.786	A
C-A	141	35			141				
A-B	25	6			25				
A-C	124	31			124				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	111	28	567	0.197	111	0.2	0.3	8.505	A
C-AB	94	23	642	0.146	93	0.1	0.2	7.076	A
C-A	168	42			168				
A-B	30	7			30				
A-C	148	37			148				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	137	34	552	0.247	136	0.3	0.3	9.327	A
C-AB	115	29	632	0.182	115	0.2	0.2	7.496	A
C-A	206	51			206				
A-B	36	9			36				
A-C	182	45			182				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	137	34	552	0.247	137	0.3	0.4	9.342	A
C-AB	115	29	632	0.182	115	0.2	0.2	7.502	A
C-A	206	51			206				
A-B	36	9			36				
A-C	182	45			182				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	111	28	567	0.197	112	0.4	0.3	8.529	A
C-AB	94	23	642	0.146	94	0.2	0.2	7.087	A
C-A	168	42			168				
A-B	30	7			30				
A-C	148	37			148				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	93	23	578	0.161	94	0.3	0.2	8.012	A
C-AB	78	20	649	0.121	78	0.2	0.1	6.805	A
C-A	141	35			141				
A-B	25	6			25				
A-C	124	31			124				

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		2.98	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D14	2033 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	203	100.000
B		ONE HOUR	✓	113	100.000
C		ONE HOUR	✓	265	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	34	169
	B	29	0	84
	C	170	95	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.23	9.08	0.3	A	104	156
C-AB	0.17	7.39	0.2	A	87	131
C-A					156	234
A-B					31	47
A-C					155	233

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	85	21	578	0.147	84	0.0	0.2	7.854	A
C-AB	72	18	648	0.110	71	0.0	0.1	6.722	A
C-A	128	32			128				
A-B	26	6			26				
A-C	127	32			127				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	102	25	567	0.179	101	0.2	0.2	8.333	A
C-AB	85	21	640	0.134	85	0.1	0.2	6.991	A
C-A	153	38			153				
A-B	31	8			31				
A-C	152	38			152				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	124	31	552	0.225	124	0.2	0.3	9.066	A
C-AB	105	26	630	0.166	105	0.2	0.2	7.384	A
C-A	187	47			187				
A-B	37	9			37				
A-C	186	47			186				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	124	31	552	0.225	124	0.3	0.3	9.079	A
C-AB	105	26	630	0.166	105	0.2	0.2	7.387	A
C-A	187	47			187				
A-B	37	9			37				
A-C	186	47			186				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	102	25	567	0.179	102	0.3	0.2	8.353	A
C-AB	85	21	640	0.134	86	0.2	0.2	6.998	A
C-A	153	38			153				
A-B	31	8			31				
A-C	152	38			152				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	85	21	578	0.147	85	0.2	0.2	7.887	A
C-AB	72	18	648	0.110	72	0.2	0.1	6.735	A
C-A	128	32			128				
A-B	26	6			26				
A-C	127	32			127				

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		3.02	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D15	2038 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	209	100.000
B		ONE HOUR	✓	117	100.000
C		ONE HOUR	✓	274	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	35	174
	B	30	0	87
	C	176	98	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.23	9.23	0.3	A	107	161
C-AB	0.17	7.46	0.2	A	90	135
C-A					161	242
A-B					32	48
A-C					160	239

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	88	22	576	0.153	87	0.0	0.2	7.941	A
C-AB	74	18	647	0.114	73	0.0	0.1	6.762	A
C-A	132	33			132				
A-B	26	7			26				
A-C	131	33			131				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	105	26	565	0.186	105	0.2	0.2	8.434	A
C-AB	88	22	639	0.138	88	0.1	0.2	7.043	A
C-A	158	40			158				
A-B	31	8			31				
A-C	156	39			156				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	129	32	549	0.235	128	0.2	0.3	9.213	A
C-AB	108	27	628	0.172	108	0.2	0.2	7.450	A
C-A	194	48			194				
A-B	39	10			39				
A-C	192	48			192				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	129	32	549	0.235	129	0.3	0.3	9.228	A
C-AB	108	27	628	0.172	108	0.2	0.2	7.457	A
C-A	194	48			194				
A-B	39	10			39				
A-C	192	48			192				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	105	26	565	0.186	105	0.3	0.2	8.454	A
C-AB	88	22	639	0.138	88	0.2	0.2	7.050	A
C-A	158	40			158				
A-B	31	8			31				
A-C	156	39			156				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	88	22	576	0.153	88	0.2	0.2	7.963	A
C-AB	74	18	647	0.114	74	0.2	0.1	6.776	A
C-A	132	33			132				
A-B	26	7			26				
A-C	131	33			131				

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	R446/L5125 Junction	T-Junction	Two-way		3.09	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D16	2048 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	221	100.000
B		ONE HOUR	✓	124	100.000
C		ONE HOUR	✓	292	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	37	184
	B	31	0	93
	C	188	104	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.25	9.48	0.4	A	114	171
C-AB	0.18	7.60	0.2	A	96	143
C-A					172	259
A-B					34	51
A-C					169	253

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	93	23	574	0.163	93	0.0	0.2	8.045	A
C-AB	78	20	644	0.122	78	0.0	0.1	6.841	A
C-A	141	35			141				
A-B	28	7			28				
A-C	139	35			139				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	111	28	562	0.198	111	0.2	0.3	8.598	A
C-AB	94	23	636	0.147	93	0.1	0.2	7.148	A
C-A	169	42			169				
A-B	33	8			33				
A-C	165	41			165				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	137	34	546	0.250	136	0.3	0.4	9.463	A
C-AB	115	29	625	0.184	115	0.2	0.2	7.595	A
C-A	207	52			207				
A-B	41	10			41				
A-C	203	51			203				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	137	34	546	0.250	137	0.4	0.4	9.481	A
C-AB	115	29	625	0.184	115	0.2	0.2	7.601	A
C-A	207	52			207				
A-B	41	10			41				
A-C	203	51			203				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	111	28	562	0.198	112	0.4	0.3	8.623	A
C-AB	94	23	636	0.147	94	0.2	0.2	7.159	A
C-A	169	42			169				
A-B	33	8			33				
A-C	165	41			165				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	93	23	574	0.163	94	0.3	0.2	8.081	A
C-AB	78	20	644	0.122	78	0.2	0.2	6.858	A
C-A	141	35			141				
A-B	28	7			28				
A-C	139	35			139				

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Junctions 9

ARCADY 9 - Roundabout Module

Version: 9.5.2.1013
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Filename: R400.j9
Path: \\192.168.1.33
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Report generation date: 08/07/2025 11:35:40

»2029 Without Development, AM
»2029 With Construction, AM
»2033 Without Development, AM
»2038 Without Development, AM
»2048 Without Development, AM
»2033 With Operational Development, AM
»2038 With Operational Development, AM
»2048 With Operational Development, AM
»2029 Without Development, PM
»2029 With Construction, PM
»2033 Without Development, PM
»2038 Without Development, PM
»2048 Without Development, PM
»2033 With Operational Development, PM
»2038 With Operational Development, PM
»2048 With Operational Development, PM

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Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
	2029 Without Development									
Arm A	D1	0.6	4.72	0.35	A	D9	0.4	4.12	0.27	A
Arm B		0.4	6.80	0.28	A		0.3	5.82	0.23	A
Arm C		0.4	4.09	0.25	A		0.3	3.85	0.20	A
	2029 With Construction									
Arm A	D2	0.6	4.85	0.37	A	D10	0.4	4.13	0.27	A
Arm B		0.4	7.05	0.29	A		0.3	5.83	0.23	A
Arm C		0.4	4.10	0.25	A		0.3	3.88	0.21	A
	2033 Without Development									
Arm A	D3	0.6	4.80	0.36	A	D11	0.4	4.17	0.28	A
Arm B		0.4	6.94	0.29	A		0.3	5.91	0.24	A
Arm C		0.4	4.13	0.26	A		0.3	3.89	0.21	A
	2038 Without Development									
Arm A	D4	0.6	4.91	0.37	A	D12	0.4	4.24	0.29	A
Arm B		0.5	7.14	0.30	A		0.4	6.03	0.25	A
Arm C		0.4	4.19	0.26	A		0.3	3.94	0.22	A
	2048 Without Development									
Arm A	D5	0.7	5.14	0.40	A	D13	0.5	4.36	0.31	A
Arm B		0.5	7.56	0.32	A		0.4	6.25	0.27	A
Arm C		0.4	4.33	0.28	A		0.3	4.05	0.23	A
	2033 With Operational Development									
Arm A	D6	0.6	4.88	0.37	A	D14	0.4	4.19	0.28	A
Arm B		0.4	7.11	0.29	A		0.3	5.91	0.24	A
Arm C		0.4	4.14	0.26	A		0.3	3.97	0.23	A
	2038 With Operational Development									
Arm A	D7	0.7	5.00	0.39	A	D15	0.4	4.26	0.29	A
Arm B		0.5	7.31	0.31	A		0.4	6.03	0.25	A
Arm C		0.4	4.20	0.27	A		0.3	4.04	0.24	A
	2048 With Operational Development									
Arm A	D8	0.8	5.24	0.41	A	D16	0.5	4.39	0.31	A
Arm B		0.5	7.76	0.33	A		0.4	6.26	0.27	A
Arm C		0.4	4.34	0.28	A		0.4	4.14	0.25	A

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

File summary

File Description

Title	Admiral
Location	R446/R400 mini-roundabout junction
Site number	
Date	08/07/2025
Version	EIAR
Status	Final
Identifier	
Client	Halston
Jobnumber	241206
Enumerator	TTRSA
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin

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Analysis Options

Mini-roundabout model	Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
JUNCTIONS 9	5.75				0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D2	2029 With Construction	AM	ONE HOUR	08:00	09:30	15	✓
D3	2033 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D4	2038 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D5	2048 Without Development	AM	ONE HOUR	08:00	09:30	15	✓
D6	2033 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D7	2038 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D8	2048 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓
D9	2029 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D10	2029 With Construction	PM	ONE HOUR	16:45	18:15	15	✓
D11	2033 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D12	2038 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D13	2048 Without Development	PM	ONE HOUR	16:45	18:15	15	✓
D14	2033 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓
D15	2038 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓
D16	2048 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2029 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	4.98	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Arms

Arms

Arm	Name	Description
A	R446 to/from East	
B	R400 to/from South	
C	R446 to/from West	

Mini Roundabout Geometry

Arm	Approach road half-width (m)	Minimum approach road half-width (m)	Entry width (m)	Effective flare length (m)	Distance to next arm (m)	Entry corner kerb line distance (m)	Gradient over 50m (%)	Kerbed central island
A	6.53	6.53	8.15	4.2	14.35	11.76	0.0	
B	3.43	3.37	7.30	8.3	15.90	13.35	0.0	
C	3.12	3.12	6.51	6.1	19.50	19.24	0.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
A	0.757	1348
B	0.674	1018
C	0.849	1378

The slope and intercept shown above include any corrections and adjustments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2029 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

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Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	405	100.000
B		ONE HOUR	✓	198	100.000
C		ONE HOUR	✓	285	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	10	105	290
	B	113	0	85
	C	189	87	9

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.35	4.72	0.6	A	372	557
B	0.28	6.80	0.4	A	182	273
C	0.25	4.09	0.4	A	262	392

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	305	76	72	1293	0.236	304	234	0.0	0.3	3.917	A
B	149	37	232	862	0.173	148	144	0.0	0.2	5.430	A
C	215	54	92	1300	0.165	214	288	0.0	0.2	3.572	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	364	91	86	1282	0.284	364	280	0.3	0.4	4.222	A
B	178	44	277	831	0.214	178	172	0.2	0.3	5.937	A
C	256	64	110	1285	0.199	256	345	0.2	0.3	3.772	A

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08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	446	111	106	1268	0.352	445	343	0.4	0.6	4.716	A
B	218	55	340	789	0.276	218	211	0.3	0.4	6.784	A
C	314	78	135	1264	0.248	313	422	0.3	0.4	4.083	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	446	111	106	1268	0.352	446	344	0.6	0.6	4.722	A
B	218	55	340	789	0.276	218	211	0.4	0.4	6.798	A
C	314	78	135	1263	0.248	314	423	0.4	0.4	4.086	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	364	91	86	1282	0.284	365	281	0.6	0.4	4.232	A
B	178	44	278	831	0.214	178	173	0.4	0.3	5.957	A
C	256	64	111	1284	0.199	257	346	0.4	0.3	3.779	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	305	76	72	1293	0.236	305	235	0.4	0.3	3.931	A
B	149	37	233	861	0.173	149	145	0.3	0.2	5.454	A
C	215	54	93	1300	0.165	215	289	0.3	0.2	3.576	A

2029 With Construction, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	5.11	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2029 With Construction	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	424	100.000
B		ONE HOUR	✓	204	100.000
C		ONE HOUR	✓	288	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	10	105	309
	B	113	0	91
	C	191	88	9

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.37	4.85	0.6	A	389	584
B	0.29	7.05	0.4	A	187	281
C	0.25	4.10	0.4	A	264	396

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	319	80	73	1293	0.247	318	235	0.0	0.4	3.976	A
B	154	38	246	852	0.180	153	145	0.0	0.2	5.540	A
C	217	54	92	1300	0.167	216	306	0.0	0.2	3.573	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	381	95	87	1282	0.297	381	282	0.4	0.5	4.306	A
B	183	46	295	820	0.224	183	173	0.2	0.3	6.095	A
C	259	65	110	1285	0.202	259	367	0.2	0.3	3.782	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	467	117	107	1267	0.369	466	345	0.5	0.6	4.842	A
B	225	56	361	775	0.290	224	212	0.3	0.4	7.039	A
C	317	79	135	1264	0.251	317	450	0.3	0.4	4.097	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	467	117	107	1267	0.369	467	346	0.6	0.6	4.851	A
B	225	56	361	775	0.290	225	212	0.4	0.4	7.054	A
C	317	79	135	1263	0.251	317	450	0.4	0.4	4.100	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	381	95	87	1281	0.297	382	283	0.6	0.5	4.316	A
B	183	46	295	819	0.224	184	174	0.4	0.3	6.114	A
C	259	65	111	1284	0.202	259	368	0.4	0.3	3.786	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	319	80	73	1292	0.247	320	237	0.5	0.4	3.993	A
B	154	38	247	851	0.180	154	145	0.3	0.2	5.567	A
C	217	54	93	1300	0.167	217	308	0.3	0.2	3.587	A

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2033 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	5.06	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2033 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	415	100.000
B		ONE HOUR	✓	204	100.000
C		ONE HOUR	✓	292	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	10	108	297
	B	116	0	88
	C	194	89	9

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.36	4.80	0.6	A	381	571
B	0.29	6.94	0.4	A	187	281
C	0.26	4.13	0.4	A	268	402

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	312	78	73	1292	0.242	311	240	0.0	0.3	3.950	A
B	154	38	237	858	0.179	153	148	0.0	0.2	5.492	A
C	220	55	94	1298	0.169	219	295	0.0	0.2	3.591	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	373	93	88	1281	0.291	373	287	0.3	0.4	4.270	A
B	183	46	284	827	0.222	183	177	0.2	0.3	6.026	A
C	263	66	113	1282	0.205	262	354	0.2	0.3	3.803	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	457	114	108	1266	0.361	456	352	0.4	0.6	4.788	A
B	225	56	347	784	0.287	224	217	0.3	0.4	6.927	A
C	321	80	138	1261	0.255	321	433	0.3	0.4	4.129	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	457	114	108	1266	0.361	457	352	0.6	0.6	4.796	A
B	225	56	348	784	0.287	225	217	0.4	0.4	6.942	A
C	321	80	139	1261	0.255	321	434	0.4	0.4	4.131	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	373	93	88	1281	0.291	374	288	0.6	0.4	4.282	A
B	183	46	285	826	0.222	184	177	0.4	0.3	6.047	A
C	263	66	114	1282	0.205	263	355	0.4	0.3	3.811	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	312	78	74	1292	0.242	313	241	0.4	0.3	3.966	A
B	154	38	238	858	0.179	154	148	0.3	0.2	5.519	A
C	220	55	95	1298	0.169	220	297	0.3	0.2	3.603	A

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2038 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	5.18	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2038 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	430	100.000
B		ONE HOUR	✓	211	100.000
C		ONE HOUR	✓	301	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	10	112	308
	B	120	0	91
	C	200	92	9

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.37	4.91	0.6	A	395	592
B	0.30	7.14	0.5	A	194	290
C	0.26	4.19	0.4	A	276	414

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	324	81	76	1290	0.251	322	247	0.0	0.4	4.003	A
B	159	40	245	853	0.186	158	153	0.0	0.2	5.575	A
C	227	57	97	1296	0.175	226	306	0.0	0.2	3.622	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	387	97	91	1279	0.302	386	296	0.4	0.5	4.345	A
B	190	47	294	820	0.231	189	183	0.2	0.3	6.150	A
C	271	68	117	1279	0.212	270	366	0.2	0.3	3.845	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	473	118	111	1264	0.375	473	363	0.5	0.6	4.903	A
B	232	58	359	776	0.299	232	224	0.3	0.5	7.126	A
C	331	83	143	1257	0.264	331	448	0.3	0.4	4.188	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	473	118	111	1263	0.375	473	363	0.6	0.6	4.912	A
B	232	58	360	775	0.300	232	225	0.5	0.5	7.145	A
C	331	83	143	1257	0.264	331	449	0.4	0.4	4.192	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	387	97	91	1279	0.302	387	297	0.6	0.5	4.357	A
B	190	47	294	820	0.231	190	184	0.5	0.3	6.173	A
C	271	68	117	1279	0.212	271	368	0.4	0.3	3.851	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	324	81	76	1290	0.251	324	249	0.5	0.4	4.019	A
B	159	40	247	852	0.186	159	154	0.3	0.2	5.604	A
C	227	57	98	1295	0.175	227	308	0.3	0.2	3.632	A

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2048 Without Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	5.42	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2048 Without Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	457	100.000
B		ONE HOUR	✓	224	100.000
C		ONE HOUR	✓	321	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	11	119	327
	B	127	0	97
	C	213	98	10

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.40	5.14	0.7	A	419	629
B	0.32	7.56	0.5	A	206	308
C	0.28	4.33	0.4	A	295	442

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	344	86	81	1286	0.267	342	263	0.0	0.4	4.105	A
B	169	42	261	842	0.200	168	163	0.0	0.3	5.742	A
C	242	60	103	1291	0.187	241	325	0.0	0.2	3.692	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	411	103	97	1274	0.322	410	315	0.4	0.5	4.491	A
B	201	50	312	807	0.249	201	195	0.3	0.4	6.397	A
C	289	72	124	1273	0.227	288	390	0.2	0.3	3.939	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	503	126	119	1258	0.400	502	386	0.5	0.7	5.132	A
B	247	62	383	760	0.324	246	239	0.4	0.5	7.537	A
C	353	88	152	1250	0.283	353	477	0.3	0.4	4.325	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	503	126	119	1258	0.400	503	386	0.7	0.7	5.143	A
B	247	62	383	760	0.325	247	239	0.5	0.5	7.561	A
C	353	88	152	1249	0.283	353	478	0.4	0.4	4.330	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	411	103	97	1274	0.322	412	316	0.7	0.5	4.505	A
B	201	50	313	807	0.250	202	195	0.5	0.4	6.424	A
C	289	72	124	1273	0.227	289	391	0.4	0.3	3.946	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	344	86	81	1286	0.268	345	265	0.5	0.4	4.124	A
B	169	42	262	841	0.200	169	164	0.4	0.3	5.775	A
C	242	60	104	1290	0.187	242	327	0.3	0.2	3.705	A

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2033 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	5.14	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2033 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	428	100.000
B		ONE HOUR	✓	207	100.000
C		ONE HOUR	✓	293	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	10	108	310
	B	116	0	91
	C	195	89	9

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.37	4.88	0.6	A	393	589
B	0.29	7.11	0.4	A	190	285
C	0.26	4.14	0.4	A	269	403

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	322	81	73	1292	0.249	321	241	0.0	0.4	3.990	A
B	156	39	247	852	0.183	155	148	0.0	0.2	5.562	A
C	221	55	94	1298	0.170	220	307	0.0	0.2	3.594	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	385	96	88	1281	0.300	384	288	0.4	0.5	4.326	A
B	186	47	295	819	0.227	186	177	0.2	0.3	6.127	A
C	263	66	113	1282	0.205	263	368	0.2	0.3	3.807	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	471	118	108	1266	0.372	471	353	0.5	0.6	4.874	A
B	228	57	362	774	0.294	227	217	0.3	0.4	7.091	A
C	323	81	138	1261	0.256	322	451	0.3	0.4	4.131	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	471	118	108	1266	0.372	471	353	0.6	0.6	4.883	A
B	228	57	362	774	0.295	228	217	0.4	0.4	7.107	A
C	323	81	139	1261	0.256	323	451	0.4	0.4	4.136	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	385	96	88	1281	0.300	385	289	0.6	0.5	4.337	A
B	186	47	296	818	0.227	187	177	0.4	0.3	6.147	A
C	263	66	114	1282	0.205	264	369	0.4	0.3	3.814	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	322	81	74	1292	0.249	323	242	0.5	0.4	4.006	A
B	156	39	248	851	0.183	156	148	0.3	0.2	5.587	A
C	221	55	95	1298	0.170	221	309	0.3	0.2	3.603	A

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2038 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	5.26	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2038 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	442	100.000
B		ONE HOUR	✓	214	100.000
C		ONE HOUR	✓	303	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	10	112	320
	B	120	0	94
	C	201	93	9

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.39	5.00	0.7	A	406	608
B	0.31	7.31	0.5	A	196	295
C	0.27	4.20	0.4	A	278	417

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	333	83	76	1290	0.258	331	248	0.0	0.4	4.044	A
B	161	40	254	847	0.190	160	154	0.0	0.3	5.643	A
C	228	57	97	1296	0.176	227	317	0.0	0.2	3.627	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	397	99	92	1278	0.311	397	297	0.4	0.5	4.401	A
B	192	48	304	813	0.237	192	184	0.3	0.3	6.248	A
C	272	68	117	1279	0.213	272	380	0.2	0.3	3.852	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	487	122	112	1263	0.385	486	364	0.5	0.7	4.992	A
B	236	59	373	767	0.307	235	225	0.3	0.5	7.290	A
C	334	83	143	1257	0.265	333	465	0.3	0.4	4.198	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	487	122	112	1263	0.385	487	364	0.7	0.7	5.001	A
B	236	59	373	766	0.307	236	226	0.5	0.5	7.309	A
C	334	83	143	1257	0.265	334	466	0.4	0.4	4.202	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	397	99	92	1278	0.311	398	298	0.7	0.5	4.415	A
B	192	48	305	812	0.237	193	185	0.5	0.3	6.273	A
C	272	68	117	1279	0.213	273	381	0.4	0.3	3.859	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	333	83	77	1289	0.258	333	250	0.5	0.4	4.060	A
B	161	40	256	846	0.190	161	155	0.3	0.3	5.675	A
C	228	57	98	1295	0.176	228	319	0.3	0.2	3.640	A

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2048 With Operational Development, AM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	5.52	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2048 With Operational Development	AM	ONE HOUR	08:00	09:30	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	470	100.000
B		ONE HOUR	✓	227	100.000
C		ONE HOUR	✓	322	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	11	119	340
	B	127	0	100
	C	214	98	10

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.41	5.24	0.8	A	431	647
B	0.33	7.76	0.5	A	208	312
C	0.28	4.34	0.4	A	295	443

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	354	88	81	1286	0.275	352	264	0.0	0.4	4.148	A
B	171	43	271	836	0.204	170	163	0.0	0.3	5.818	A
C	242	61	103	1291	0.188	241	337	0.0	0.2	3.694	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	423	106	97	1274	0.332	422	316	0.4	0.5	4.551	A
B	204	51	324	800	0.255	204	195	0.3	0.4	6.508	A
C	289	72	124	1273	0.227	289	404	0.2	0.3	3.942	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	517	129	119	1258	0.411	517	387	0.5	0.7	5.229	A
B	250	62	397	751	0.333	249	239	0.4	0.5	7.731	A
C	355	89	152	1250	0.284	354	495	0.3	0.4	4.331	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	517	129	119	1258	0.411	517	388	0.7	0.8	5.243	A
B	250	62	397	750	0.333	250	239	0.5	0.5	7.758	A
C	355	89	152	1249	0.284	355	495	0.4	0.4	4.336	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	423	106	97	1274	0.332	423	317	0.8	0.5	4.566	A
B	204	51	325	799	0.255	205	195	0.5	0.4	6.540	A
C	289	72	124	1273	0.227	290	405	0.4	0.3	3.951	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	354	88	81	1286	0.275	354	265	0.5	0.4	4.169	A
B	171	43	272	835	0.205	171	164	0.4	0.3	5.853	A
C	242	61	104	1290	0.188	243	339	0.3	0.3	3.708	A

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2029 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	4.46	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2029 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	320	100.000
B		ONE HOUR	✓	183	100.000
C		ONE HOUR	✓	234	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	2	124	194
	B	119	0	64
	C	170	58	6

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.27	4.12	0.4	A	294	440
B	0.23	5.82	0.3	A	168	252
C	0.20	3.85	0.3	A	215	322

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	241	60	48	1311	0.184	240	218	0.0	0.2	3.619	A
B	138	34	151	916	0.150	137	136	0.0	0.2	4.978	A
C	176	44	91	1302	0.135	175	198	0.0	0.2	3.444	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	288	72	57	1304	0.221	287	261	0.2	0.3	3.817	A
B	165	41	181	896	0.184	164	163	0.2	0.2	5.304	A
C	210	53	109	1286	0.164	210	237	0.2	0.2	3.606	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	352	88	70	1294	0.272	352	320	0.3	0.4	4.116	A
B	201	50	222	868	0.232	201	200	0.2	0.3	5.814	A
C	258	64	133	1266	0.204	257	290	0.2	0.3	3.848	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	352	88	70	1294	0.272	352	320	0.4	0.4	4.119	A
B	201	50	222	868	0.232	201	200	0.3	0.3	5.820	A
C	258	64	133	1265	0.204	258	291	0.3	0.3	3.850	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	288	72	58	1304	0.221	288	262	0.4	0.3	3.820	A
B	165	41	182	896	0.184	165	164	0.3	0.2	5.313	A
C	210	53	109	1286	0.164	211	238	0.3	0.2	3.611	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	241	60	48	1311	0.184	241	219	0.3	0.2	3.630	A
B	138	34	152	915	0.150	138	137	0.2	0.2	4.992	A
C	176	44	91	1301	0.135	176	199	0.2	0.2	3.452	A

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	4.47	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2029 With Construction	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	320	100.000
B		ONE HOUR	✓	183	100.000
C		ONE HOUR	✓	241	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	2	124	194
	B	119	0	64
	C	174	60	7

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.27	4.13	0.4	A	294	440
B	0.23	5.83	0.3	A	168	252
C	0.21	3.88	0.3	A	221	332

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	241	60	50	1310	0.184	240	221	0.0	0.2	3.625	A
B	138	34	152	915	0.150	137	138	0.0	0.2	4.981	A
C	181	45	91	1302	0.139	181	199	0.0	0.2	3.461	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	288	72	60	1302	0.221	287	265	0.2	0.3	3.824	A
B	165	41	182	895	0.184	164	165	0.2	0.2	5.308	A
C	217	54	109	1286	0.168	216	238	0.2	0.2	3.627	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	352	88	74	1292	0.273	352	324	0.3	0.4	4.127	A
B	201	50	223	868	0.232	201	202	0.2	0.3	5.821	A
C	265	66	133	1266	0.210	265	291	0.2	0.3	3.878	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	352	88	74	1292	0.273	352	325	0.4	0.4	4.130	A
B	201	50	224	867	0.232	201	203	0.3	0.3	5.827	A
C	265	66	133	1265	0.210	265	292	0.3	0.3	3.880	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	288	72	60	1302	0.221	288	266	0.4	0.3	3.828	A
B	165	41	183	895	0.184	165	166	0.3	0.2	5.319	A
C	217	54	109	1286	0.168	217	239	0.3	0.2	3.633	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	241	60	50	1309	0.184	241	222	0.3	0.2	3.633	A
B	138	34	153	915	0.151	138	139	0.2	0.2	4.995	A
C	181	45	91	1301	0.139	182	200	0.2	0.2	3.469	A

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2033 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	4.51	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2033 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	328	100.000
B		ONE HOUR	✓	188	100.000
C		ONE HOUR	✓	241	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	2	127	199
	B	122	0	66
	C	174	60	7

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.28	4.17	0.4	A	301	451
B	0.24	5.91	0.3	A	173	259
C	0.21	3.89	0.3	A	221	332

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	247	62	50	1310	0.189	246	223	0.0	0.2	3.645	A
B	142	35	156	913	0.155	141	140	0.0	0.2	5.020	A
C	181	45	93	1300	0.140	181	204	0.0	0.2	3.466	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	295	74	60	1302	0.226	295	268	0.2	0.3	3.851	A
B	169	42	187	892	0.189	169	168	0.2	0.3	5.364	A
C	217	54	111	1284	0.169	216	244	0.2	0.2	3.635	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	361	90	74	1292	0.280	361	328	0.3	0.4	4.166	A
B	207	52	229	864	0.240	207	206	0.3	0.3	5.902	A
C	265	66	136	1263	0.210	265	299	0.2	0.3	3.889	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	361	90	74	1292	0.280	361	328	0.4	0.4	4.169	A
B	207	52	229	864	0.240	207	206	0.3	0.3	5.908	A
C	265	66	137	1263	0.210	265	299	0.3	0.3	3.891	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	295	74	60	1302	0.226	295	268	0.4	0.3	3.857	A
B	169	42	187	892	0.190	169	168	0.3	0.3	5.375	A
C	217	54	112	1284	0.169	217	245	0.3	0.2	3.638	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	247	62	50	1309	0.189	247	225	0.3	0.3	3.653	A
B	142	35	157	912	0.155	142	141	0.3	0.2	5.038	A
C	181	45	93	1299	0.140	182	205	0.2	0.2	3.475	A

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2038 Without Development, PM

RECEIVED: 08/07/2025

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	4.59	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2038 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	340	100.000
B		ONE HOUR	✓	195	100.000
C		ONE HOUR	✓	249	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	2	132	206
	B	127	0	68
	C	180	62	7

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

RECEIVED: 08/07/2025

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.29	4.24	0.4	A	312	468
B	0.25	6.03	0.4	A	179	268
C	0.22	3.94	0.3	A	228	343

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	256	64	52	1308	0.196	255	232	0.0	0.3	3.680	A
B	147	37	161	909	0.161	146	145	0.0	0.2	5.078	A
C	187	47	97	1296	0.145	187	211	0.0	0.2	3.495	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	306	76	62	1301	0.235	305	278	0.3	0.3	3.898	A
B	175	44	193	888	0.197	175	174	0.2	0.3	5.443	A
C	224	56	116	1280	0.175	224	252	0.2	0.2	3.673	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	374	94	76	1290	0.290	374	340	0.3	0.4	4.234	A
B	215	54	236	859	0.250	214	213	0.3	0.4	6.018	A
C	274	69	142	1258	0.218	274	309	0.2	0.3	3.942	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	374	94	76	1290	0.290	374	340	0.4	0.4	4.237	A
B	215	54	237	859	0.250	215	214	0.4	0.4	6.027	A
C	274	69	142	1258	0.218	274	309	0.3	0.3	3.944	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	306	76	62	1301	0.235	306	278	0.4	0.3	3.903	A
B	175	44	194	888	0.198	176	175	0.4	0.3	5.453	A
C	224	56	116	1280	0.175	224	253	0.3	0.2	3.676	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	256	64	52	1308	0.196	256	233	0.3	0.3	3.692	A
B	147	37	162	909	0.162	147	146	0.3	0.2	5.097	A
C	187	47	97	1296	0.145	188	212	0.2	0.2	3.501	A

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2048 Without Development, PM

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	4.73	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2048 Without Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	361	100.000
B		ONE HOUR	✓	207	100.000
C		ONE HOUR	✓	265	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	2	140	219
	B	135	0	72
	C	192	66	7

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.31	4.36	0.5	A	331	497
B	0.27	6.25	0.4	A	190	285
C	0.23	4.05	0.3	A	243	365

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	272	68	55	1306	0.208	271	247	0.0	0.3	3.745	A
B	156	39	171	903	0.173	155	154	0.0	0.2	5.182	A
C	200	50	103	1291	0.154	199	223	0.0	0.2	3.550	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	325	81	66	1298	0.250	324	295	0.3	0.4	3.985	A
B	186	47	205	880	0.211	186	185	0.2	0.3	5.589	A
C	238	60	123	1274	0.187	238	268	0.2	0.2	3.745	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	397	99	80	1287	0.309	397	362	0.4	0.5	4.359	A
B	228	57	251	849	0.268	227	227	0.3	0.4	6.239	A
C	292	73	151	1251	0.233	291	328	0.2	0.3	4.045	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	397	99	80	1287	0.309	397	362	0.5	0.5	4.363	A
B	228	57	251	849	0.268	228	227	0.4	0.4	6.249	A
C	292	73	151	1250	0.233	292	328	0.3	0.3	4.047	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	325	81	66	1298	0.250	325	296	0.5	0.4	3.992	A
B	186	47	205	880	0.212	186	185	0.4	0.3	5.603	A
C	238	60	123	1274	0.187	239	268	0.3	0.2	3.749	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	272	68	55	1306	0.208	272	248	0.4	0.3	3.756	A
B	156	39	172	902	0.173	156	155	0.3	0.2	5.204	A
C	200	50	103	1291	0.155	200	225	0.2	0.2	3.559	A

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	4.53	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D14	2033 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	328	100.000
B		ONE HOUR	✓	188	100.000
C		ONE HOUR	✓	260	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	2	127	199
	B	122	0	66
	C	188	65	7

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.28	4.19	0.4	A	301	451
B	0.24	5.91	0.3	A	173	259
C	0.23	3.97	0.3	A	239	358

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	247	62	54	1307	0.189	246	234	0.0	0.2	3.655	A
B	142	35	156	913	0.155	141	144	0.0	0.2	5.020	A
C	196	49	93	1300	0.151	195	204	0.0	0.2	3.511	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	295	74	65	1299	0.227	295	280	0.2	0.3	3.864	A
B	169	42	187	892	0.189	169	172	0.2	0.3	5.363	A
C	234	58	111	1284	0.182	234	244	0.2	0.2	3.694	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	361	90	79	1288	0.280	361	343	0.3	0.4	4.185	A
B	207	52	229	864	0.240	207	211	0.3	0.3	5.902	A
C	286	72	136	1263	0.227	286	299	0.2	0.3	3.972	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	361	90	79	1288	0.280	361	344	0.4	0.4	4.188	A
B	207	52	229	864	0.240	207	211	0.3	0.3	5.908	A
C	286	72	137	1263	0.227	286	299	0.3	0.3	3.974	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	295	74	65	1299	0.227	295	281	0.4	0.3	3.869	A
B	169	42	187	892	0.190	169	173	0.3	0.3	5.375	A
C	234	58	112	1284	0.182	234	245	0.3	0.2	3.700	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	247	62	54	1306	0.189	247	235	0.3	0.3	3.663	A
B	142	35	157	912	0.155	142	145	0.3	0.2	5.036	A
C	196	49	93	1299	0.151	196	205	0.2	0.2	3.517	A

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	4.61	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D15	2038 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	340	100.000
B		ONE HOUR	✓	195	100.000
C		ONE HOUR	✓	271	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	2	132	206
	B	127	0	68
	C	197	67	7

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.29	4.26	0.4	A	312	468
B	0.25	6.03	0.4	A	179	268
C	0.24	4.04	0.3	A	249	373

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	256	64	55	1306	0.196	255	244	0.0	0.3	3.690	A
B	147	37	161	909	0.161	146	149	0.0	0.2	5.078	A
C	204	51	97	1296	0.157	203	211	0.0	0.2	3.548	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	306	76	66	1297	0.236	305	293	0.3	0.3	3.911	A
B	175	44	193	888	0.197	175	179	0.2	0.3	5.443	A
C	244	61	116	1280	0.190	243	252	0.2	0.3	3.743	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	374	94	81	1286	0.291	374	358	0.3	0.4	4.253	A
B	215	54	236	859	0.250	214	219	0.3	0.4	6.018	A
C	298	75	142	1258	0.237	298	309	0.3	0.3	4.041	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	374	94	81	1286	0.291	374	359	0.4	0.4	4.257	A
B	215	54	237	859	0.250	215	219	0.4	0.4	6.027	A
C	298	75	142	1258	0.237	298	309	0.3	0.3	4.044	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	306	76	67	1297	0.236	306	294	0.4	0.3	3.918	A
B	175	44	194	888	0.198	176	179	0.4	0.3	5.453	A
C	244	61	116	1280	0.190	244	253	0.3	0.3	3.749	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	256	64	56	1305	0.196	256	246	0.3	0.3	3.699	A
B	147	37	162	909	0.162	147	150	0.3	0.2	5.097	A
C	204	51	97	1296	0.157	204	212	0.3	0.2	3.557	A

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Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	R446/R400 mini-roundabout junction	Mini-roundabout		A, B, C	4.76	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D16	2048 With Operational Development	PM	ONE HOUR	16:45	18:15	15	✓

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.30

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	362	100.000
B		ONE HOUR	✓	207	100.000
C		ONE HOUR	✓	284	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	2	140	220
	B	135	0	72
	C	206	71	7

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	6	6	6
	B	6	6	6
	C	6	6	6

Results

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Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
A	0.31	4.39	0.5	A	332	498
B	0.27	6.26	0.4	A	190	285
C	0.25	4.14	0.4	A	261	391

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	273	68	58	1303	0.209	271	257	0.0	0.3	3.758	A
B	156	39	172	902	0.173	155	158	0.0	0.2	5.185	A
C	214	53	103	1291	0.166	213	224	0.0	0.2	3.593	A

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	325	81	70	1295	0.251	325	308	0.3	0.4	4.002	A
B	186	47	206	879	0.212	186	190	0.2	0.3	5.594	A
C	255	64	123	1274	0.200	255	269	0.2	0.3	3.808	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	399	100	86	1283	0.311	398	377	0.4	0.5	4.385	A
B	228	57	252	848	0.269	227	232	0.3	0.4	6.247	A
C	313	78	151	1251	0.250	312	329	0.3	0.4	4.135	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	399	100	86	1283	0.311	399	378	0.5	0.5	4.389	A
B	228	57	252	848	0.269	228	232	0.4	0.4	6.256	A
C	313	78	151	1250	0.250	313	329	0.4	0.4	4.138	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	325	81	70	1294	0.251	326	309	0.5	0.4	4.010	A
B	186	47	206	879	0.212	186	190	0.4	0.3	5.608	A
C	255	64	123	1274	0.200	256	269	0.4	0.3	3.812	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
A	273	68	59	1303	0.209	273	259	0.4	0.3	3.770	A
B	156	39	173	902	0.173	156	159	0.3	0.2	5.206	A
C	214	53	103	1291	0.166	214	225	0.3	0.2	3.606	A

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APPENDIX 13.5

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Proposed vehicular site accesses for proposed Data Centre Facility and Decentralised Energy Resource at Gneevebane, Oldtown, Farthingstown, Castlelost and Kiltotan and Collinstown, Co. Westmeath

Stage 1 Road Safety Audit

Final Report

8th July 2025

Prepared for

Red Admiral DC Ltd.

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