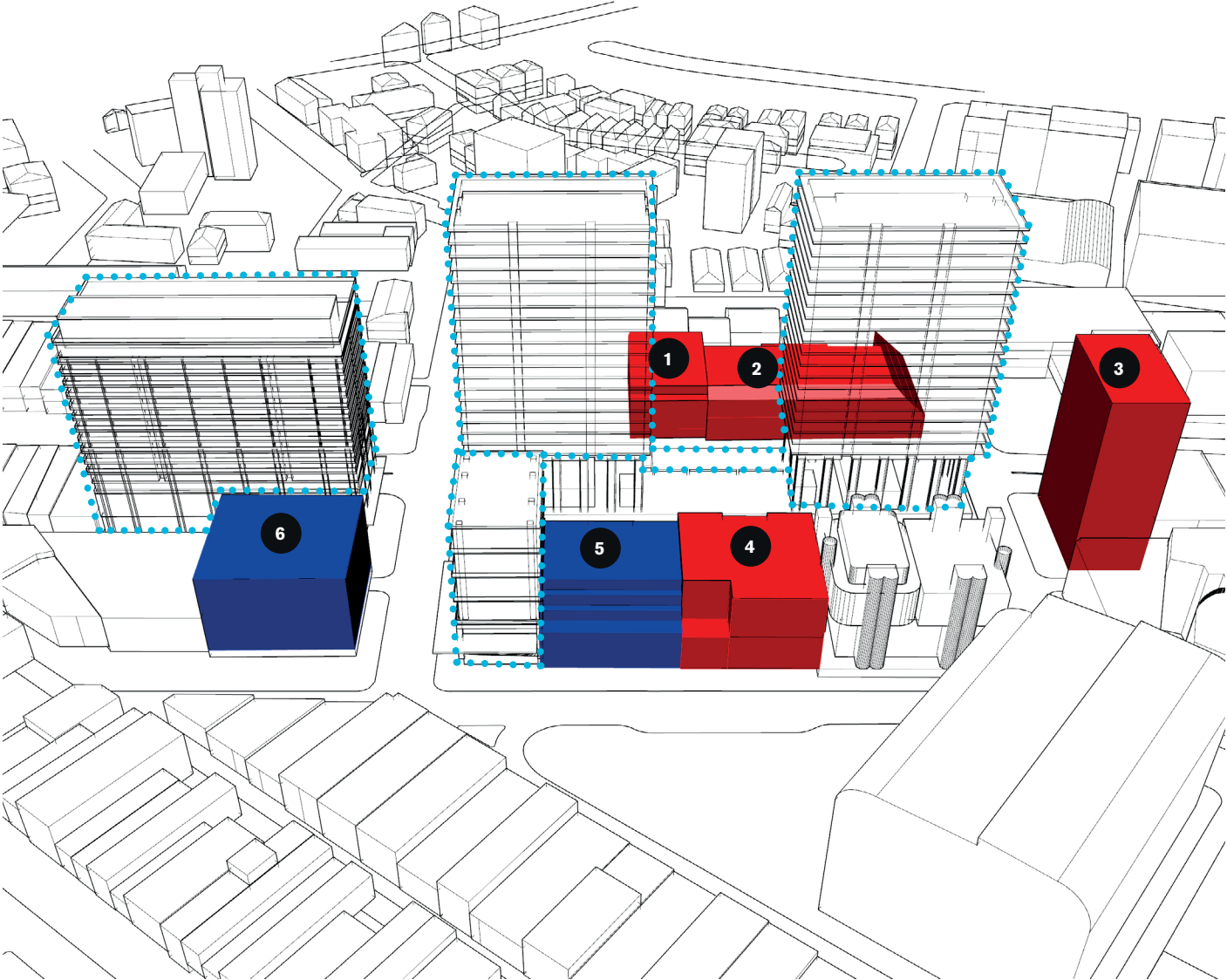


# Sydney Metro City & South West: Crows Nest Over Station Development

Solar Impact Analysis - Adjoining Buildings

<b>Applicable to:</b>	Sydney Metro City & Southwest
<b>Author:</b>	Ethos Urban and Metron
<b>Owner</b>	Sydney Metro Authority
<b>Status:</b>	Final
<b>Version:</b>	Final
<b>Date of issue:</b>	09.11.2018
<b>Review date:</b>	09.11.2018
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Appendix I  
Solar impact Analysis - Adjoining Buildings



Proposed Massing  
Residential Buildings Assessed

- 1. 400 Pacific Highway
- 2. 420 Pacific Highway
- 3. 545 Pacific Highway
- 4. 22-26 Clarke Street
- 7. 29-31 Nicholson Street

Commercial Buildings Assessed

- 5. 20 Clarke Street
- 6. 10 Clarke Street

Solar Impact Analysis

A detailed solar impact analysis to assess the impact of the proposed development on the surrounding buildings has been carried out for the following key buildings:

- Residential Buildings:
- 1. 400 Pacific Highway
  - 2. 402-420 Pacific Highway
  - 3. 545 Pacific Highway
  - 4. 22-26 Clarke Street; and
  - 7. 29-31 Nicholson Street

- Commercial Buildings:
- 5. 20 Clarke Street
  - 6. 10 Clarke Street

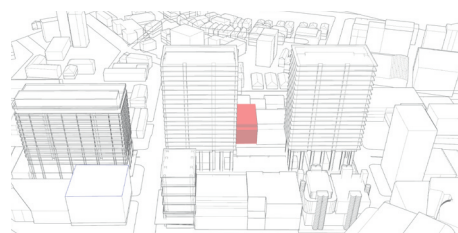
The analysis considers the impact of the proposed indicative scheme on these buildings, comparing the amount of direct solar access on June 21 between 9:00 am and 3:00 pm.

Given the relative position of the different sites, the impacts vary accordingly. Three sites, 545 Pacific Highway, 22-26 Clarke Street and 20 Clarke Street, are not impacted by the proposed indicative design due to their position with respect to the site. Due to their position with respect to the site, 400 Pacific Highway, 402-420 Pacific Highway and 10 Clarke Street are overshadowed by the proposed development.

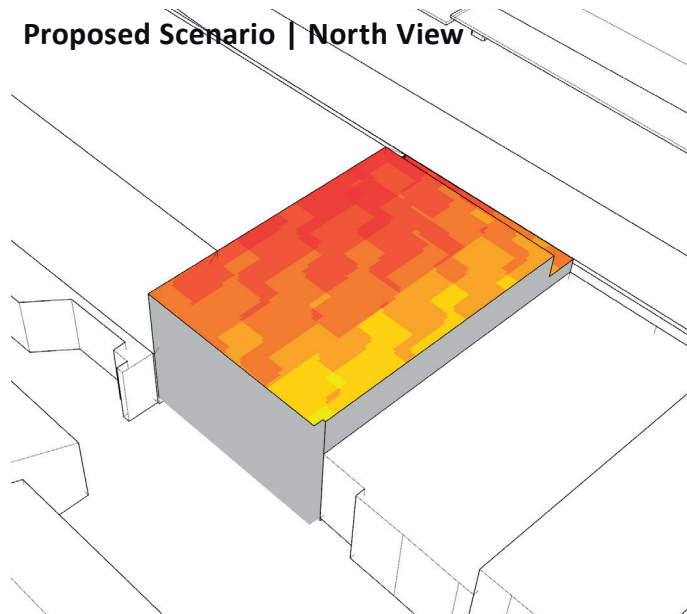
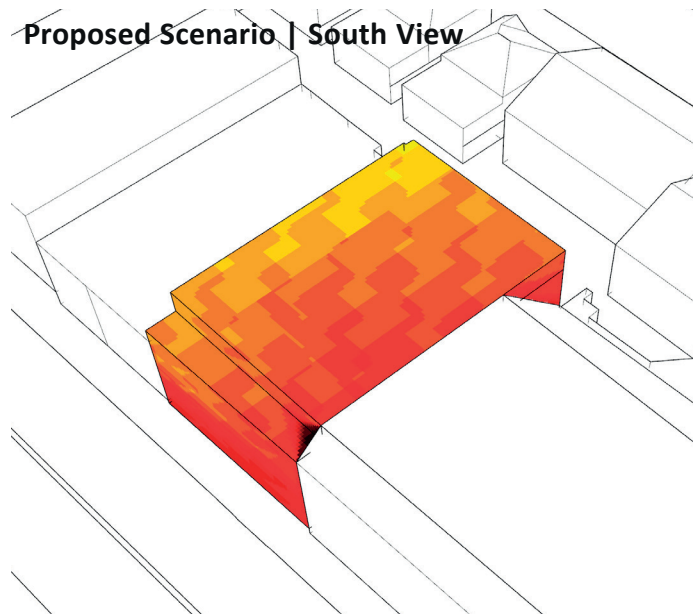
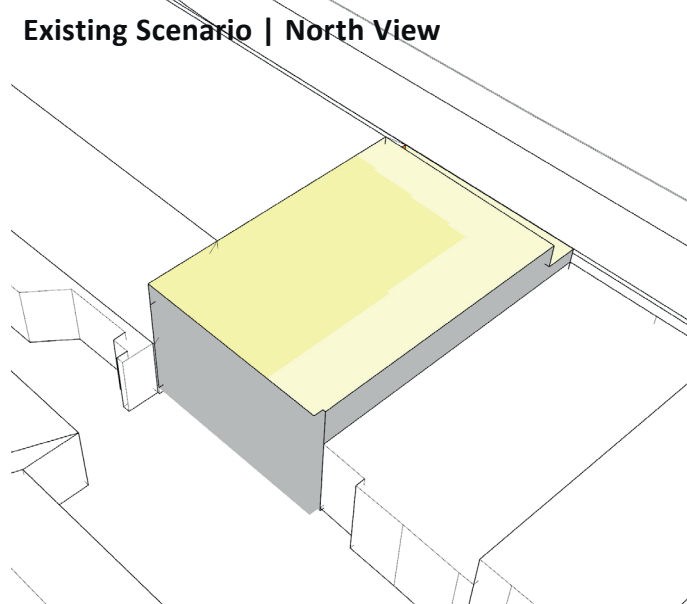
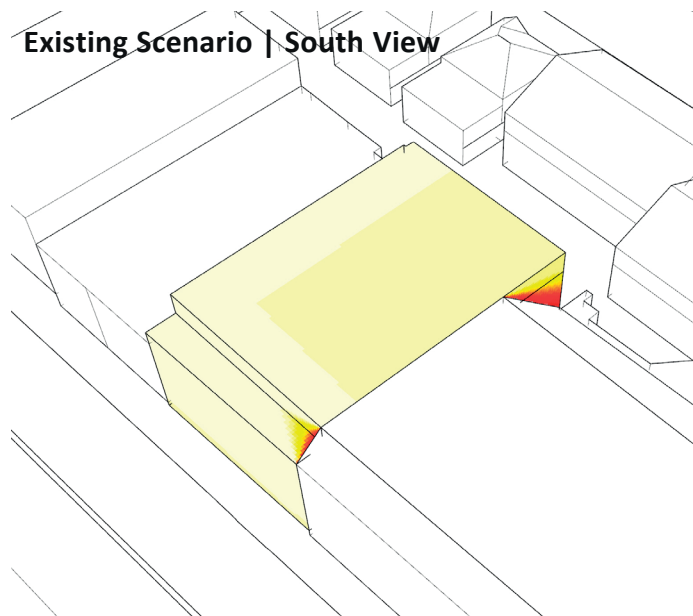
At 400 Pacific Highway, solar access is reduced by approximately one to two hours on the NE facade and roof, due to overshadowing caused by the proposed development between 9:30 am and 1:00 pm. The building however still receives more than 2 hours of solar access throughout the day.

At 402-420 Pacific Highway, solar access is reduced by approximately one hour on the NE facade and roof, due to overshadowing caused by the proposed development between 9:00 am and 12:00 pm. The building however still receives more than 2 hours of solar access in the afternoon.

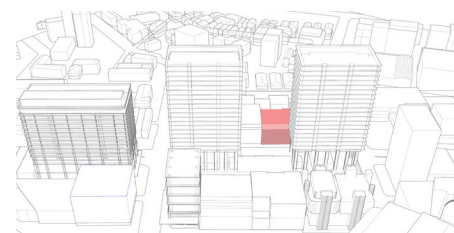
At 10 Clarke Street, solar access is reduced by approximately one hour on the NE and NW facades and roof, due to overshadowing caused by the proposed development between 12:30 pm and 3:00pm. The building however still receives more than 2 hours in the morning. Solar access is also reduced on the SW facade by approximately 0.5 hours.



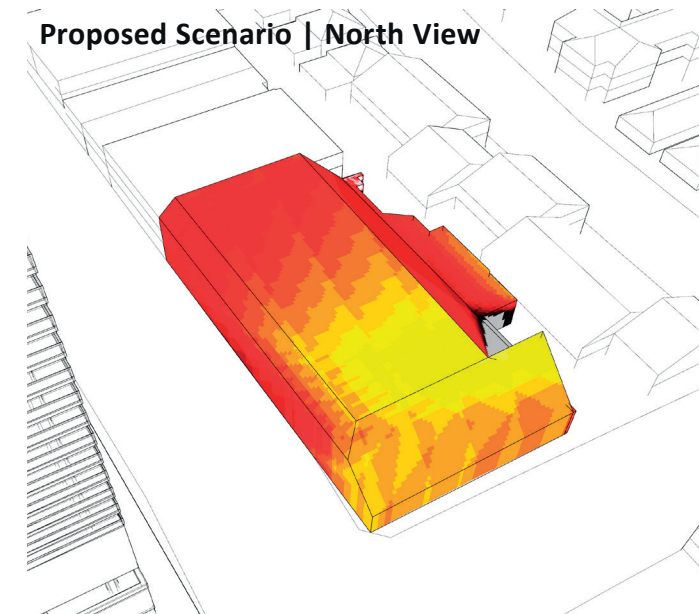
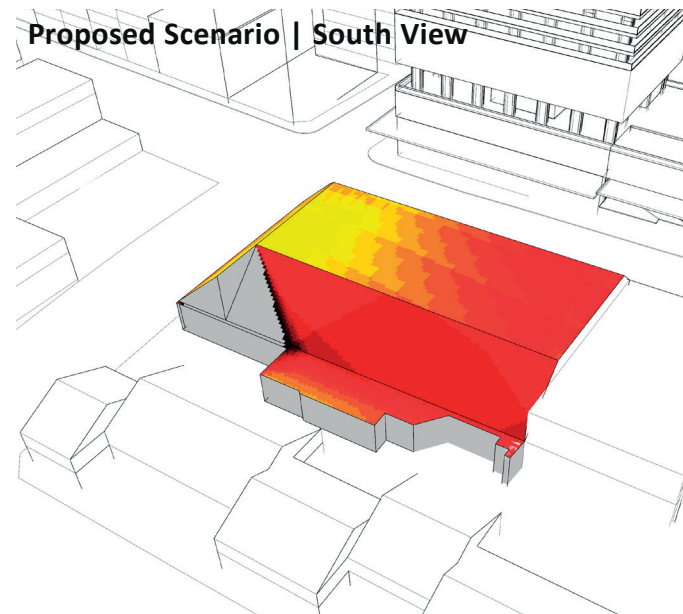
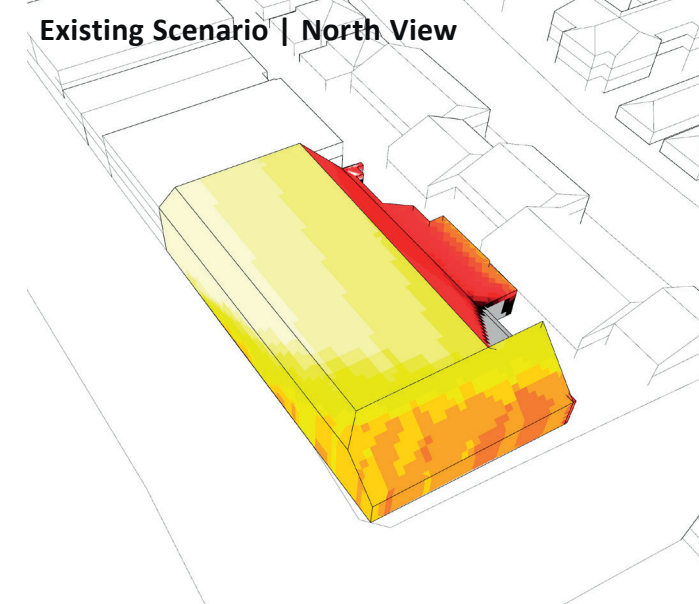
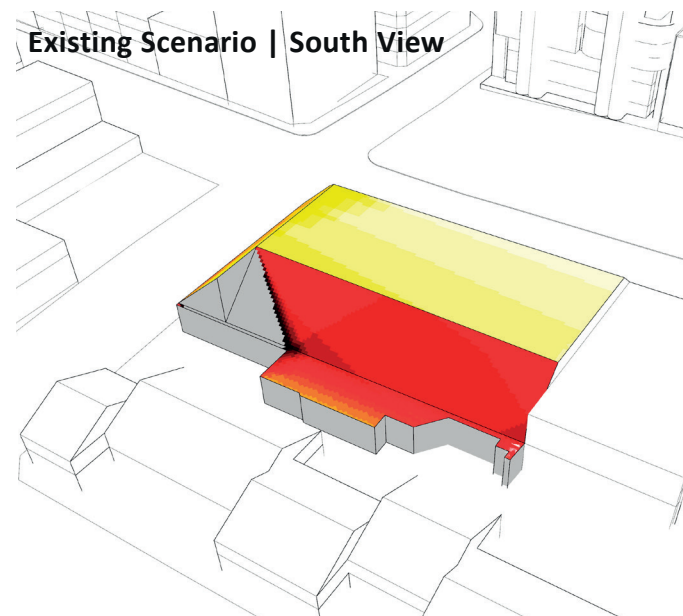
## 400 Pacific Highway



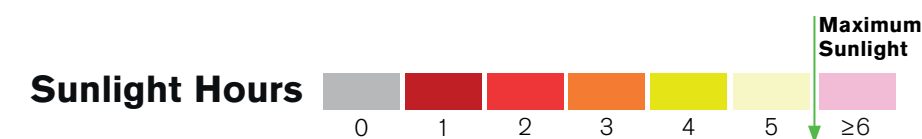
Solar access is reduced by approximately 1-2 hour on the NE facade and roof, however the building still receives more than 2 hours of solar access in these areas.



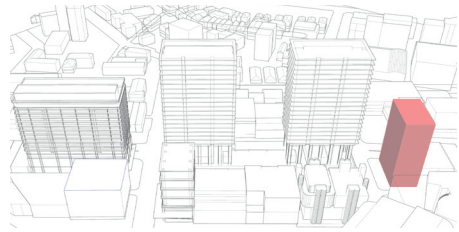
## 402-420 Pacific Highway



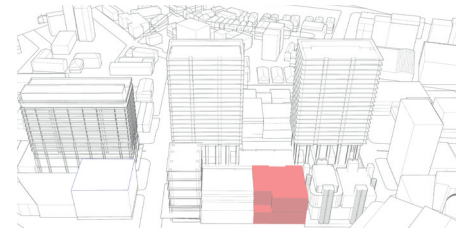
Solar access is reduced by approximately one hour on the NE facade and roof, however the building still receives more than 2 hours of solar access in these areas.





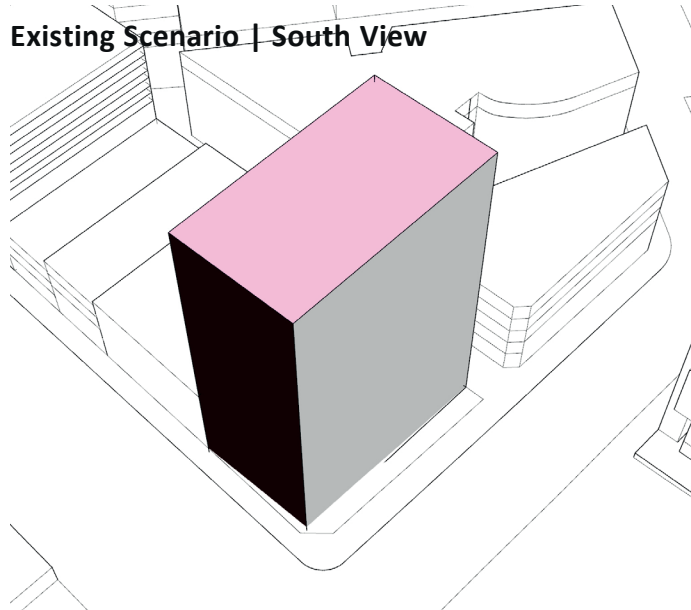


**545 Pacific Highway**

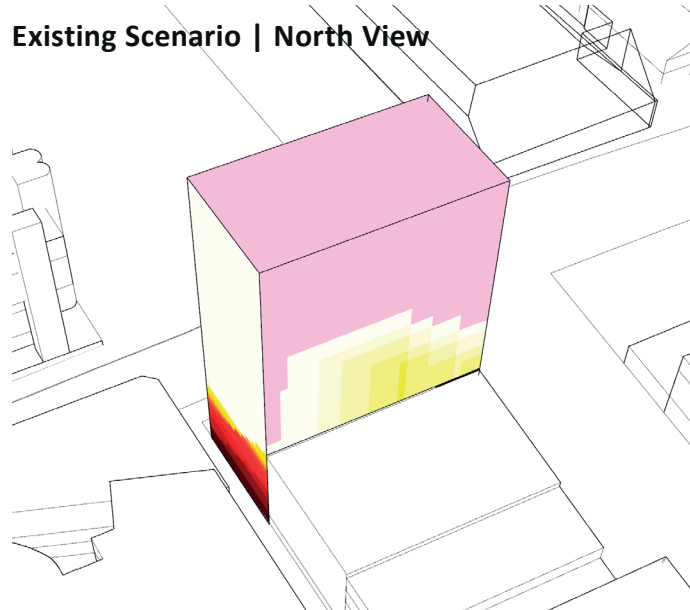


**22-26 Clarke Street**

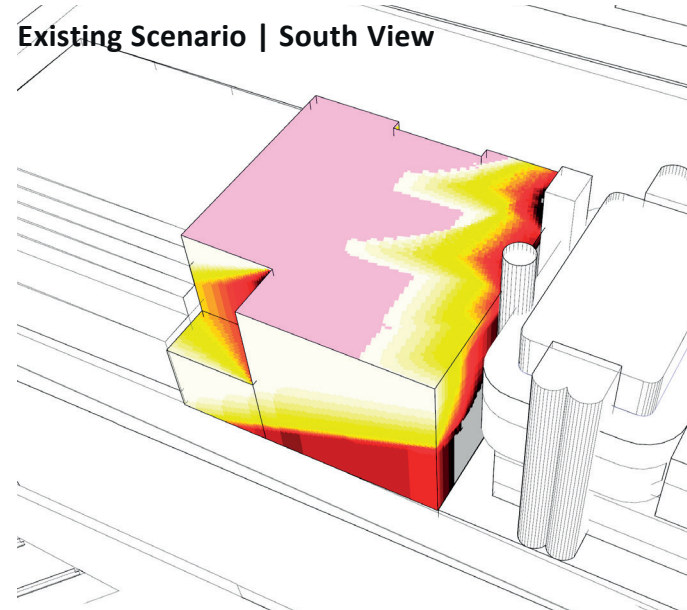
**Existing Scenario | South View**



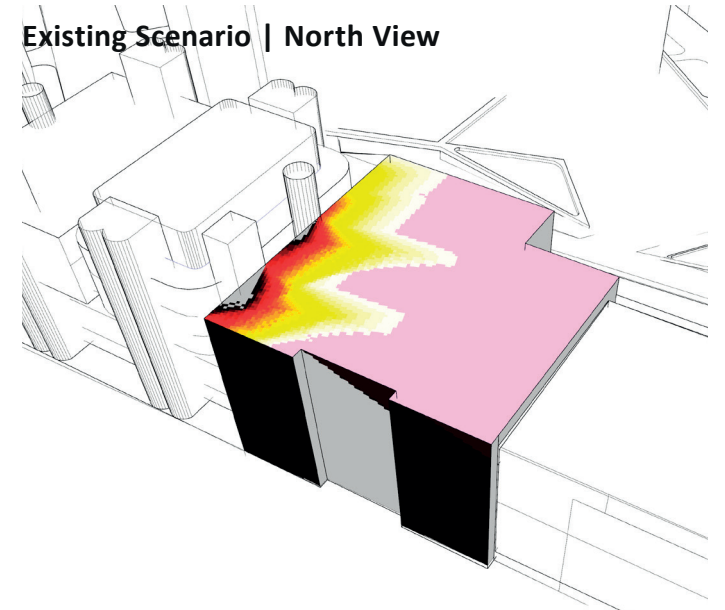
**Existing Scenario | North View**



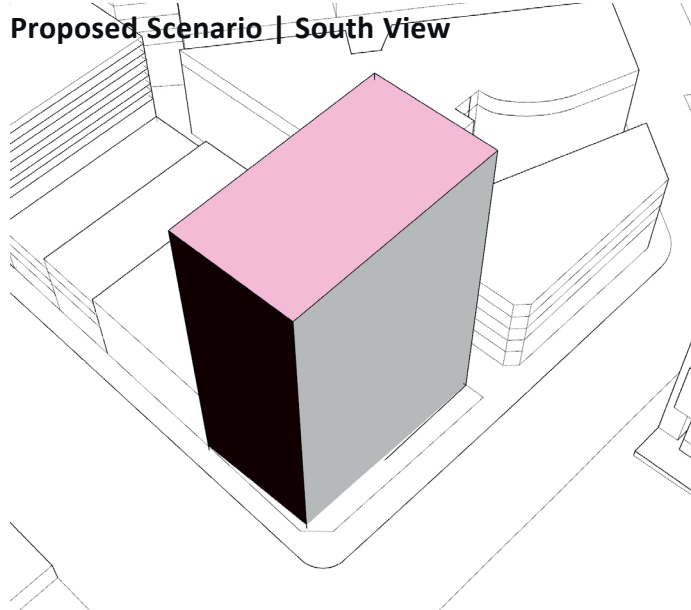
**Existing Scenario | South View**



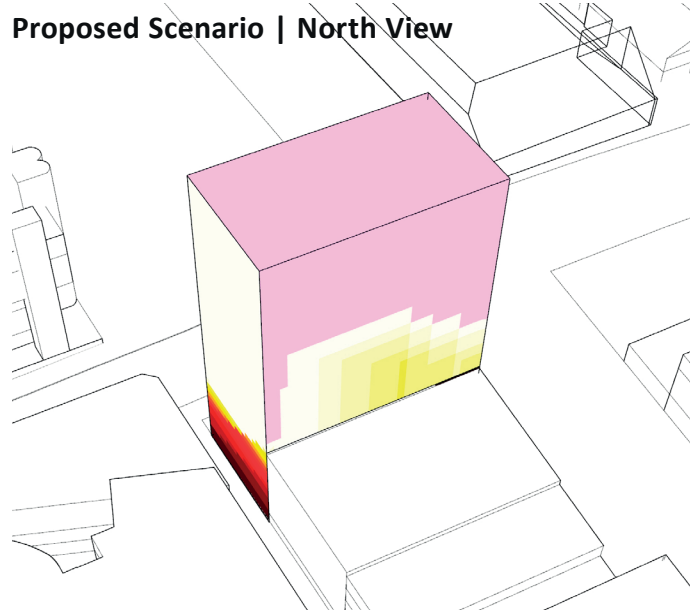
**Existing Scenario | North View**



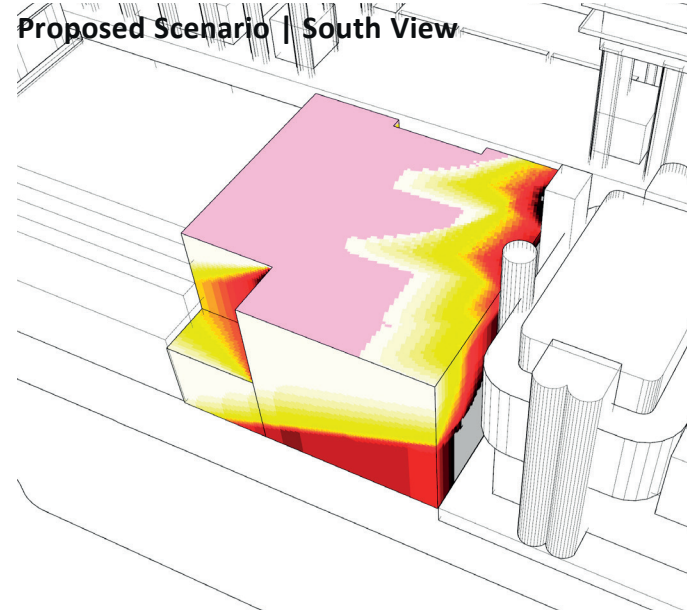
**Proposed Scenario | South View**



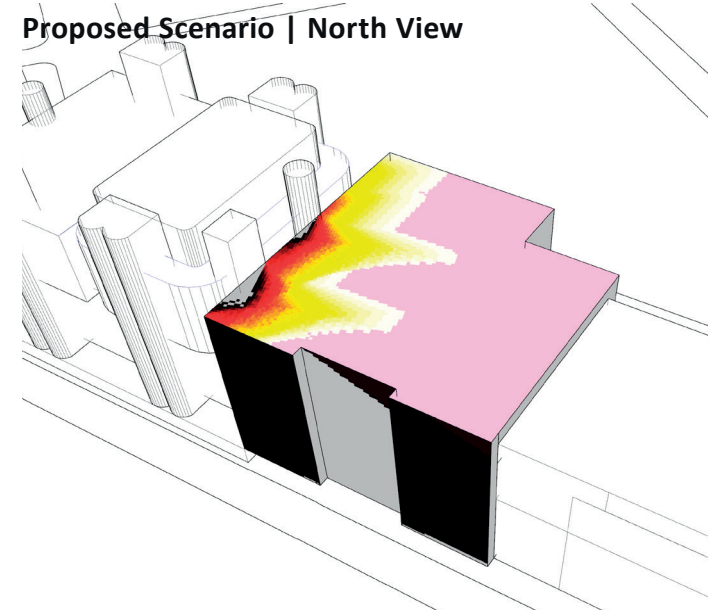
**Proposed Scenario | North View**



**Proposed Scenario | South View**

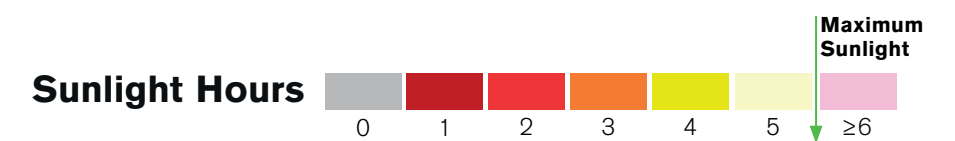


**Proposed Scenario | North View**

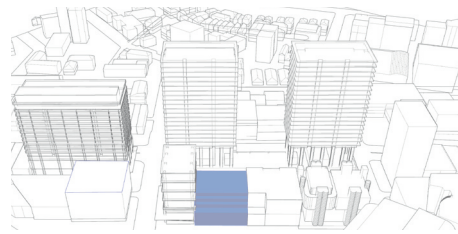


No Impact

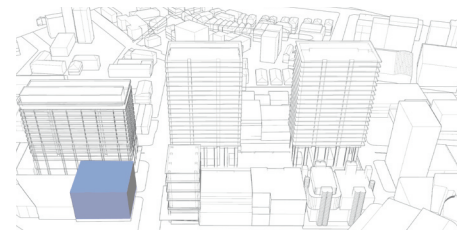
No Impact





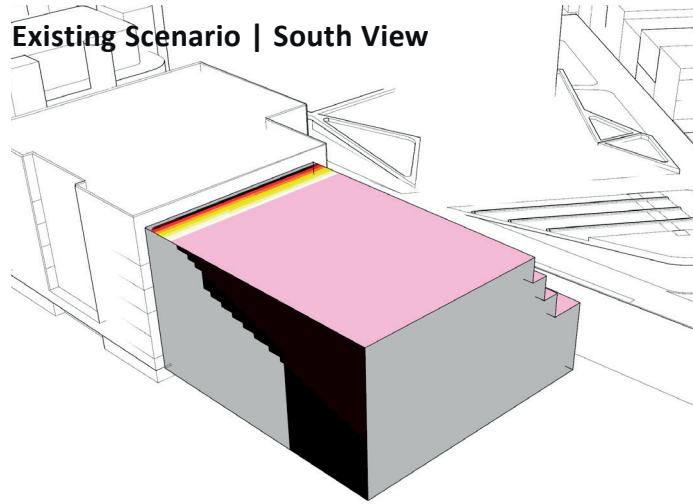


**20 Clarke Street**

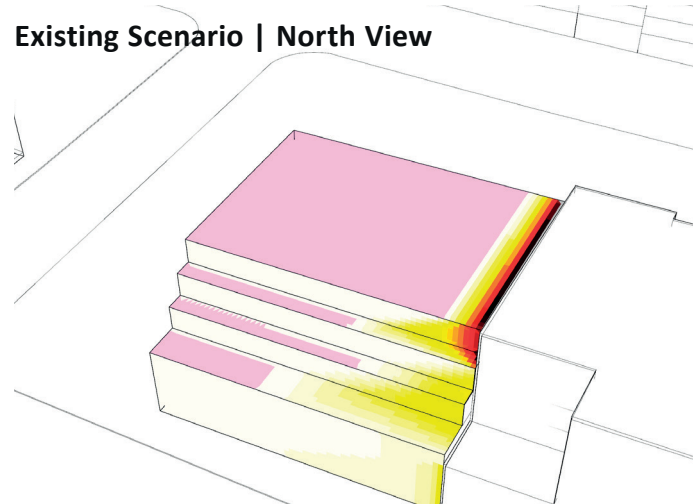


**10 Clarke Street**

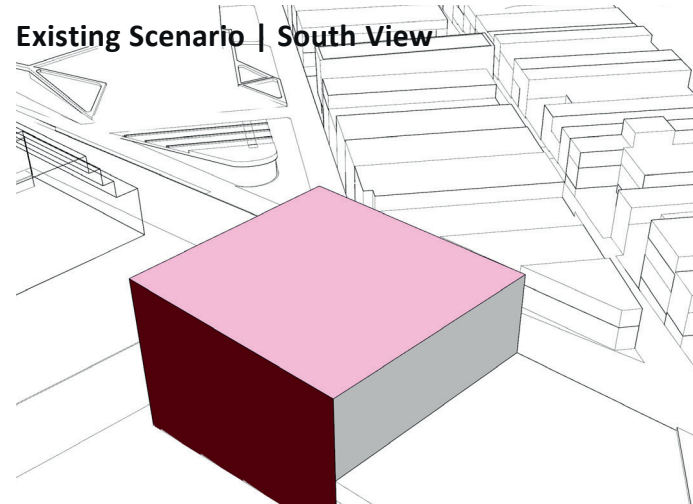
**Existing Scenario | South View**



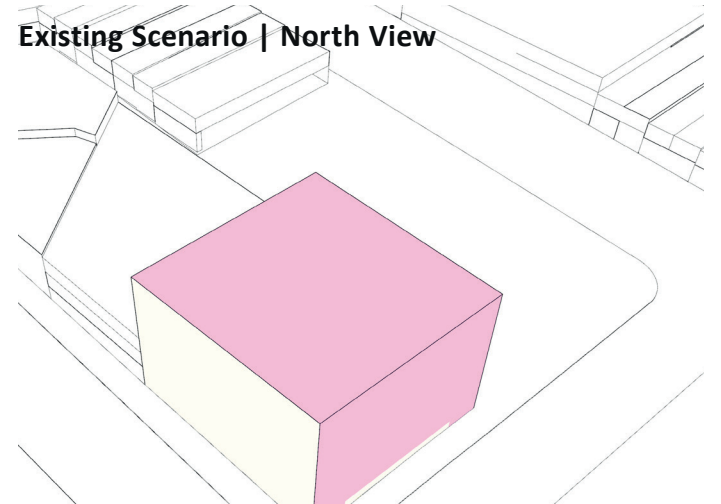
**Existing Scenario | North View**



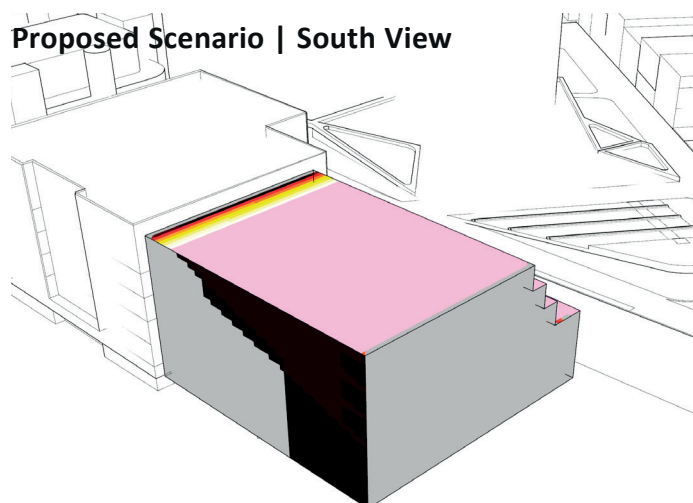
**Existing Scenario | South View**



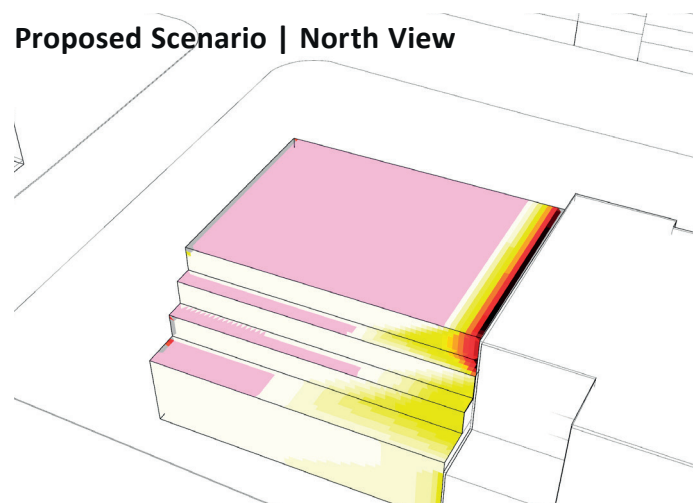
**Existing Scenario | North View**



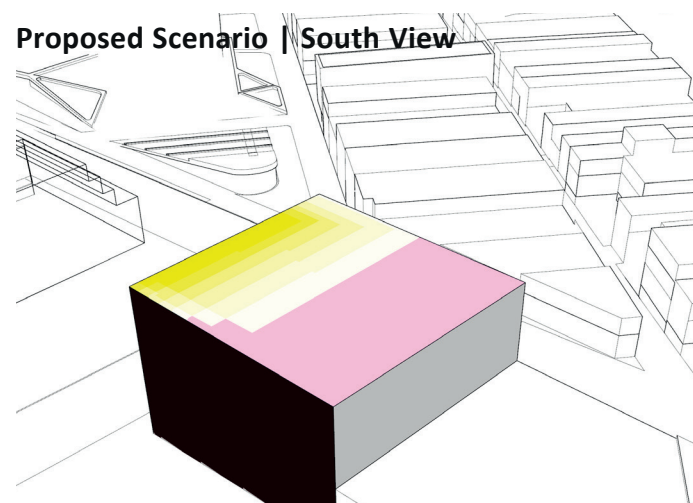
**Proposed Scenario | South View**



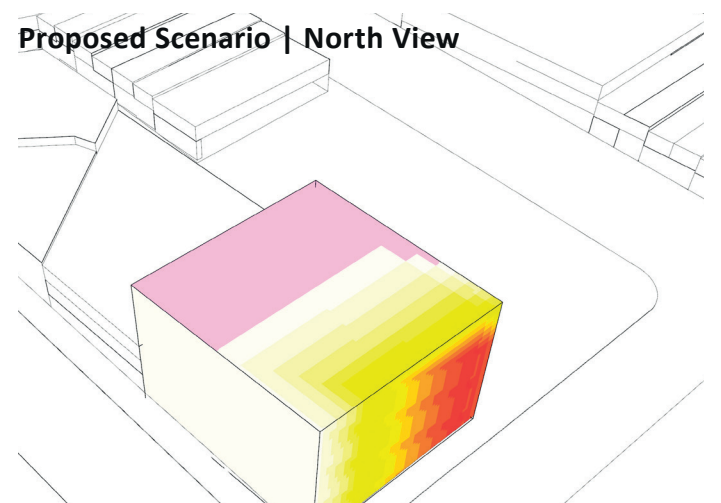
**Proposed Scenario | North View**



**Proposed Scenario | South View**



**Proposed Scenario | North View**



No Impact

Solar access is reduced by approximately one hour on the NE and NW facades and roof, however the building still receives more than 2 hours of solar access in these areas. Solar access is also reduced on the SW facade by approximately 0.5 hours.

**Sunlight Hours**



Colour Code	Key
	Full shadow from OSD
	Partial shadow from OSD
	No Shadow
	Full shadow from other development
	Partial shadow from other development

### Relevant Controls

1. The Apartment Design Guide (ADG) Objective 4A-1 prescribes that living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 2 hours direct sunlight between 9am and 3pm at mid winter in the Sydney Metropolitan Area and in the Newcastle and Wollongong local government areas. A maximum of 15% of apartments in a building receive no direct sunlight between 9am and 3pm at mid winter.
2. NSDCP 2013 prescribes that living rooms and private open spaces for at least 70% of dwellings within a residential flat building should receive a minimum of 2 hours of solar access between the hours of 9.00am and 3.00pm at the winter solstice (21<sup>st</sup> June)
3. NSDCP 2013 prescribes that for other types of dwellings a minimum of 3 hours of solar access between the hours of 9.00am and 3.00pm at the winter solstice (21<sup>st</sup> June) is provided to main internal living areas and private open spaces
4. The Crows Nest Sydney Metro site Rezoning Proposal released by DPE in October 2018 states the built form of the Crows Nest OSD should result in no additional overshadowing of residential areas within the draft 2036 Plan boundary for more than 3 hours between 9am and 3pm (winter solstice)

### Shadow analysis at mid winter

Address	Type of Development	9.00am	9.30am	10.00am	10.30am	11.00am	11.30am	12.00pm	12.30pm	1.00pm	1.30pm	2.00pm	2.30pm	3.00pm	3.30pm	4.00pm	4.30pm	5.00pm	Total solar access (9.00am to 3.00pm) (hours)	Compliance	Additional shadow caused by OSD (9.00am to 5.00pm) (hours)	Compliance
402-420 Pacific Highway Crows Nest 2065	Residential Flat building/shop top housing																		2-5	Yes	1-4	Partial compliance
400 Pacific Highway Crows Nest 2065	Residential Flat building/shop top housing																		1.5-3	Partial compliance	3-4.5	No
388 Pacific Highway Crows Nest 2065	Shop Top																		1.5-2.5	No	3.5-4.5	No
382 Pacific Highway Crows Nest	Shop top																		1.5-2	No	4-4.5	No
378 Pacific Highway Crows Nest 2065	Shop Top																		1.5-2	No	4-4.5	No
35-51 Nicholson Street Wollstonecraft 2065	Multi Dwelling Housing																		3.5-5.5	Yes	0.5-2.5	Yes



Address	Type of Development	9.00am	9.30am	10.00am	10.30am	11.00am	11.30am	12.00pm	12.30pm	1.00pm	1.30pm	2.00pm	2.30pm	3.00pm	3.30pm	4.00pm	4.30pm	5.00pm	Total solar access (9.00am to 3.00pm) (hours)	Compliance	Additional shadow caused by OSD (9.00am to 5.00pm) (hours)	Compliance
33 Nicholson street Wollstonecraft 2065	Single Detached																		3-3.5	Yes	2.5-3	Yes
1/31 Nicholson street Wollstonecraft 2065	Semi Detached																		2.5-3	No	3-3.5	No
2/31 Nicholson Street Wollstonecraft 2065	Semi Detached																		2.5-3	No	3-3.5	No
29 Nicholson Street Wollstonecraft 2065	Single Detached																		2.5-3	No	3-3.5	No
376 Pacific Highway Crows Nest 2065	Shop Top Housing																		1-2.5	Ni	4.5-5	No
374 Pacific Highway Crows Nest 2065	Shop Top Housing																		1-3	No	3-5	No
372 Pacific Highway Crows Nest 2065	Shop Top Housing																		1-3	No	3-5	No
370 Pacific Highway Crows Nest 2065	Shop Top Housing																		1-3	No	3-5	No
368 Pacific Highway Crows Nest 2065	Shop Top Housing																		1-3	No	3-5	No
366 Pacific Highway Crows Nest 2065	Shop Top housing																		1-2.5	No	3.5-5	No
360 (1-44) Pacific Highway Crows Nest 2065	Shop top housing																		1-2.5	No	3-5	No
348 Pacific Highway Crows Nest 2065	Shop Top Housing																		1.5-4.5	Partial compliance	1.5-4.5	Partial compliance
342-346 Pacific Highway Crows Nest 2065	Shop Top Housing																		2-4.5	Partial compliance	1.5-4	Partial compliance
340 Pacific Highway Crows Nest 2065	Shop Top Housing																		2.5-5	Partial compliance	1-3.5	Partial compliance
336 Pacific Highway Crows Nest 2065	Shop Top Housing																		3-5	Yes	1-3	Yes

Address	Type of Development	9.00am	9.30am	10.00am	10.30am	11.00am	11.30am	12.00pm	12.30pm	1.00pm	1.30pm	2.00pm	2.30pm	3.00pm	3.30pm	4.00pm	4.30pm	5.00pm	Total solar access (9.00am to 3.00pm) (hours)	Compliance	Additional shadow caused by OSD (9.00am to 5.00pm) (hours)	Compliance
334 Pacific Highway Crows Nest	Shop top housing	Green	Green	Green	Green	Red	Red	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Black	3-5	Yes	1-3	Yes	
332 Pacific Highway Crows Nest 2065	Shop Top Housing	Green	Green	Green	Green	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green		3-5.5	Yes	0.5-3	Yes	
330 Pacific Highway Crows Nest	Shop Top Housing	Green	Green	Green	Green	Yellow	Red	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green		3-5.5	Yes	0.5-3	Yes	
328 Pacific Highway Crows Nest 2065	Shop Top Housing	Green	Green	Green	Green	Green	Red	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green		3.5-5.5	Yes	0.5-2.5	Yes	
326 Pacific Highway Crows Nest 2065	Shop Top Housing	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green		3.5-6	Yes	0-2.5	Yes	
322 Pacific Highway Crows Nest 2065	Shop Top Housing	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green		4-6	Yes	0-2	Yes	
320 Pacific Highway Crows Nest 2065	Shop Top Housing	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green		4.5-6	Yes	0-1.5	Yes	
318 Pacific Highway Crows Nest 2065	Shop Top Housing	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green		4.5-6	Yes	0-1.5	Yes	
316 Pacific Highway Crows Nest 2065	Shop Top Housing	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green		6	Yes	0	Yes	
314 Pacific Highway Crows Nest 2065	Shop Top Housing	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green		6	Yes	0	Yes	
312 Pacific Highway Crows Nest 2065	Shop Top Housing	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green		6	Yes	0	Yes	
310 Pacific Highway Crows Nest 2065	Shop Top Housing	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green		6	Yes	0	Yes	
308/308A Pacific Highway Crows Nest 2065	Shop top housing	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green		6	Yes	0	Yes	
8/473 Pacific Highway Crows Nest 2065	Shop Top Housing	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Red	Red	Red	Red	Yellow	0-5	Partial compliance	2-7.5	Partial compliance		
471A/B Pacific Highway Crows Nest 2065	Shop Top Housing	Green	Green	Green	Green	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Red	Red	Yellow	Yellow	2-5.5	Partial compliance	1-5.5	Partial compliance		



Address	Type of Development	9.00am	9.30am	10.00am	10.30am	11.00am	11.30am	12.00pm	12.30pm	1.00pm	1.30pm	2.00pm	2.30pm	3.00pm	3.30pm	4.00pm	4.30pm	5.00pm	Total solar access (9.00am to 3.00pm) (hours)	Compliance	Additional shadow caused by OSD (9.00am to 5.00pm) (hours)	Compliance
469/a Pacific Highway Crows Nest 2065	Shop Top Housing																		2.5-5.5	Partial compliance	1-5	Partial compliance
467 Pacific Highway Crows Nest 2065	Shop Top Housing																		3.5-5.5	Yes	0.5-4	Partial compliance
465/A Pacific Highway Crows Nest 2065	Shop Top Housing																		4-5.5	Yes	0.5-3.5	Partial compliance
463 Pacific Highway Crows Nest 2065	Shop Top Housing																		4-5.5	Yes	0.5-3.5	Yes
433-459 Pacific Highway Crows Nest 2065	Shop Top Housing																		4.5-5.5	Yes	0.5-3	Yes
4-6 Willoughby Road Crows Nest 2065	Shop Top																		5.5-6	Yes	0-2	Yes
48 Willoughby Road Crows Nest 2065	Shop Top																		6	Yes	0-1	Yes
4 Clarke Street Crows Nest 2065	Shop Top Housing																		5.5-6	Yes	1-2	Yes
10-12 Clarke Street Crows Nest 2065	Residential Apartment building/shop top housing																		2.5-5.5	Yes	2-5	Partial compliance
20 (Clarke Street Crows Nest 2065	Residential Apartments																		6	Yes	0	Yes
22-26 Clarke Street Crows Nest 2065	Residential Apartments/Shop Top Housing																		6	Yes	0	Yes
1-3 Willoughby Road Crows Nest 2065	Shop Top Housing																		6	Yes	0-1.5	Yes
13-19 Willoughby Road Crows Nest 2065	Shop Top Housing																		6	Yes	1-1.5	Yes
34-38 Alexander Street Crows Nest	Shop Top Housing																		6	Yes	0-1	Yes

Address	Type of Development	9.00am	9.30am	10.00am	10.30am	11.00am	11.30am	12.00pm	12.30pm	1.00pm	1.30pm	2.00pm	2.30pm	3.00pm	3.30pm	4.00pm	4.30pm	5.00pm	Total solar access (9.00am to 3.00pm) (hours)	Compliance	Additional shadow caused by OSD (9.00am to 5.00pm) (hours)	Compliance
6-8 Falcon Street Crows Nest 2065	Shop Top Housing																		6	Yes	0-1	Yes
3 Falcon Street Crows Nest 2065	Shop Top Housing																		6	Yes	0-0.5	Yes
415 Pacific Highway Crows Nest 2065	Shop Top Housing																		6	Yes	0-0.5	Yes
407 Pacific Highway Crows Nest 2065	Shop Top Housing																		6	Yes	0	Yes
27 Nicholson Street Wollstonecraft 2065	Residential apartment																		2.5-4	Yes	2-3.5	Partial compliance
25 Nicholson Street Wollstonecraft 2065	Single detached																		2-4	Partial compliance	2-4	Partial compliance
23 Nicholson Street Wollstonecraft 2065	Residential Apartments																		2-4	Partial compliance	2-4	Partial compliance
21 Nicholson Street Wollstonecraft 2065	Single Detached																		2-4	Partial compliance	2-4	Partial compliance
19 Nicholson Street Wollstonecraft 2065	Single Detached																		2-3.5	Partial compliance	2.5-4.5	Partial compliance
7-17 Nicholson Street Wollstonecraft 2065	Residential Apartment/multi dwelling housing																		2-6	Partial compliance	0-3.5	Partial compliance
5A Nicholson Street Wollstonecraft 2065	Residential Apartments																		6	Yes	0	Yes
3 Nicholson Street Wollstonecraft 2065	Single Detached																		6	Yes	0	Yes
124 Shirley Road Wollstonecraft 2065	Residential Apartments																		6	Yes	0	Yes
9-15 Hume Street (1-10) Wollstonecraft 2065	Multi dwelling housing																		3.5-6	Yes	0-2.5	Yes
2A Nicholson Street (1-8)	Multi Dwelling																		5-6	Yes	0-1	Yes



Address	Type of Development	9.00am	9.30am	10.00am	10.30am	11.00am	11.30am	12.00pm	12.30pm	1.00pm	1.30pm	2.00pm	2.30pm	3.00pm	3.30pm	4.00pm	4.30pm	5.00pm	Total solar access (9.00am to 3.00pm) (hours)	Compliance	Additional shadow caused by OSD (9.00am to 5.00pm) (hours)	Compliance
Wollstonecraft 2065	Housing																					
2B Nicholson Street (1-8) Wollstonecraft 2065	Multi Dwelling Housing																		3.5-5.5	Yes	0.5-2.5	Yes
6-10 Lamont Street Wollstonecraft 2065	Residential Apartments																		4-6	Yes	0-2	Yes
4 (1-30) Lamont Street Wollstonecraft 2065	Residential Apartments																		5.5-6	Yes	0-0.5	Yes
2(7-20) Lamont Street Wollstonecraft 2065	Residential Apartments																		5.5-6	Yes	0-0.5	Yes
2A (1-4) Lamont Street Wollstonecraft 2065	Multi dwelling housing																		2-6	Partial compliance	0	Yes
10 (1-2)-12(1-2) River Road Wollstonecraft 2065	Multi Dwelling Housing																		4.5-6	Yes	0	Yes
1A-D Hume Street Wollstonecraft 2065	Multi dwelling Housing																		4.5-6	Yes	0	Yes
1 (1-6) Hume Street Wollstonecraft 2065	Residential Apartments																		4.5-6	Yes	0	Yes
7a-7b Hume Street Wollstonecraft 2065	Multi dwelling housing																		4-5.5	Yes	0.5-2	Yes
7 Hume street Wollstonecraft 2065	Single detached dwelling																		4-5.5	Yes	0.5-2	Yes
20-26 Hume Street Wollstonecraft (1-24) 2065	Residential Apartments																		3.5-4	Yes	2-2.5	Yes
4-6 (1-18) Nicholson Street Wollstonecraft 2065	Residential Apartments																		4-4.5	Yes	1.5-2	Yes
10 Nicholson Street Wollstonecraft 2065	Semi detached																		4.5-5	Yes	1-1.5	Yes
12 Nicholson Street Wollstonecraft 2065	Semi-detached																		5.5-6	Yes	0.5-1	Yes

Address	Type of Development	9.00am	9.30am	10.00am	10.30am	11.00am	11.30am	12.00pm	12.30pm	1.00pm	1.30pm	2.00pm	2.30pm	3.00pm	3.30pm	4.00pm	4.30pm	5.00pm	Total solar access (9.00am to 3.00pm) (hours)	Compliance	Additional shadow caused by OSD (9.00am to 5.00pm) (hours)	Compliance
14 Nicholson Street Wollstonecraft 2065	Semi-detached																		5.5	Yes	0.5	Yes
16 Nicholson Street Wollstonecraft 2065	Semi-detached																		5.5	Yes	0.5	Yes
16a Nicholson street Wollstonecraft 2065	Semi-detached																		5.5	Yes	0.5	Yes
18 Nicholson street Wollstonecraft 2065	Semi-detached																		5.5	Yes	0.5	Yes
1/20 Nicholson Street Wollstonecraft 2065	Semi-detached																		5.5	Yes	0.5	Yes
22 Nicholson street Wollstonecraft 2065	Semi-detached																		5.5	Yes	0.5	Yes
24 Nicholson Street Wollstonecraft 2065	Semi-detached																		6	Yes	0	Yes
27 (1-4) Christie Street Wollstonecraft 2065	Multi-Dwelling Housing																		6	Yes	0	Yes
23-25 (1-7) Christie Street Wollstonecraft 2065	Multi Dwelling Housing																		6	Yes	0	Yes
21 Christie Street Wollstonecraft 2065	Single detached																		5.5-6	Yes	0-0.5	Yes
17 (1-32) Christie Street Wollstonecraft 2065	Residential apartments																		4.5-5.5	Yes	Yes 0.5-1.5	Yes
3-15 (1-30) Christie Street Wollstonecraft 2065	Residential Apartments																		4.5-5.5	Yes	0.5-1.5	Yes
10-18 (31-69) Hume Street Wollstonecraft 2065	Residential Apartments																		4.5-5.5	Yes	0.5-1.5	Yes
1 1/1, 2/1, 4/1, 6/1, 101/1, 201/1 Christie Street Wollstonecraft 2065	Residential Apartments																		5-5.5	Yes	0.5-1	Yes
1A Christie Street	Single Detached																		4-5.5	Yes	0.5-1	Yes



Address	Type of Development	9.00am	9.30am	10.00am	10.30am	11.00am	11.30am	12.00pm	12.30pm	1.00pm	1.30pm	2.00pm	2.30pm	3.00pm	3.30pm	4.00pm	4.30pm	5.00pm	Total solar access (9.00am to 3.00pm) (hours)	Compliance	Additional shadow caused by OSD (9.00am to 5.00pm) (hours)	Compliance
Wollstonecraft 2065	dwelling																					
8A Hume Street Wollstonecraft 2065	Single Detached dwelling																		1.5-5	Partial compliance	1	Yes
8 Hume Street Wollstonecraft 2065	Single Detached dwelling																		3-5	Yes	1	Yes
4-6 (1-17) Hume Street Wollstonecraft 2065	Residential apartments																		5-6	Yes	0-1	Yes
1B Christie Street Wollstonecraft 2065	Residential Apartments																		5-5.5	Yes	0.5-1	Yes
2A (1-7) Hume Street Wollstonecraft 2065	Multi Dwelling Housing																		6	Yes	0	Yes
1C (1-14) Christie Street Wollstonecraft 2065	Multi Dwelling Housing																		3.5-6	Yes	0-0.5	Yes
2 Hume Street Wollstonecraft 2065	Single detached Dwelling																		6	Yes	0	Yes
32-36 (1-11) Christie Street Wollstonecraft 2065	Residential Apartments																		6	Yes	0	Yes
30 (1-5) Christie Street Wollstonecraft 2065	Multi dwelling housing																		5.5	Yes	0.5	Yes
26 (1-4) Christie Street Wollstonecraft 2065	Multi dwelling housing																		4.5-5.5	Yes	0.5	Yes
22 Christie street Wollstonecraft 2065	Single Detached Dwelling																		5.5	Yes	0.5	Yes
20 Christie Street Wollstonecraft 2065	Single Detached Dwelling																		5.5	Yes	0.5	Yes
18 Christie Street Wollstonecraft 2065	Single Detached Dwelling																		5.5	Yes	0.5	Yes
16 Christie Street Wollstonecraft 2065	Single Detached Dwelling																		5.5	Yes	0.5	Yes

Address	Type of Development	9.00am	9.30am	10.00am	10.30am	11.00am	11.30am	12.00pm	12.30pm	1.00pm	1.30pm	2.00pm	2.30pm	3.00pm	3.30pm	4.00pm	4.30pm	5.00pm	Total solar access (9.00am to 3.00pm) (hours)	Compliance	Additional shadow caused by OSD (9.00am to 5.00pm) (hours)	Compliance
14 Christie Street Wollstonecraft 2065	Single Detached Dwelling																		5.5	Yes	0.5	Yes
12 Christie Street Wollstonecraft 2065	Single Detached Dwelling																		5.5	Yes	0.5	Yes
10 Christie Street Wollstonecraft 2065	Single Detached Dwelling																		5.5	Yes	0.5	Yes
8 Christie Street Wollstonecraft 2065	Single Detached Dwelling																		5.5	Yes	0.5	Yes
6 Christie Street Wollstonecraft 2065	Single Detached Dwelling																		5.5	Yes	0.5	Yes
4 Christie Street Wollstonecraft 2065	Semi-detached dwelling																		5.5	Yes	0.5	Yes
2 Christie Street Wollstonecraft 2065	Semi-detached dwelling																		5.5	Yes	0.5	Yes
2A Christie Street Wollstonecraft 2065	Single detached dwelling																		5.5	Yes	0.5	Yes
26 River Road Wollstonecraft 2065	Semi-detached dwelling																		5.5-6	Yes	0-0.5	Yes
28 River Road Wollstonecraft 2065	Semi-detached dwelling																		5.5-6	Yes	0-0.5	Yes
30 River Road Wollstonecraft 2065	Single detached dwelling																		6	Yes	0	Yes
32 River Road Wollstonecraft 2065	Single detached dwelling																		5.5-6	Yes	0-0.5	Yes
30A River Road Wollstonecraft 2065	Single detached dwelling																		5.5-6	Yes	0-0.5	Yes
1a Lithgow Street Wollstonecraft 2065	Single detached dwelling																		5.5-6	Yes	0-0.5	Yes
1B Lithgow Street Wollstonecraft 2065	Single Detached Dwelling																		5.5	Yes	0.5	Yes

Address	Type of Development	9.00am	9.30am	10.00am	10.30am	11.00am	11.30am	12.00pm	12.30pm	1.00pm	1.30pm	2.00pm	2.30pm	3.00pm	3.30pm	4.00pm	4.30pm	5.00pm	Total solar access (9.00am to 3.00pm) (hours)	Compliance	Additional shadow caused by OSD (9.00am to 5.00pm) (hours)	Compliance
3 Lithgow Street Wollstonecraft 2065	Single Detached Dwelling																		5.5	Yes	0.5	Yes
5-7 (1-6) Lithgow Street Wollstonecraft 2065	Multi Dwelling Housing																		5.5-6	Yes	0-0.5	Yes
9 (1-4) Lithgow Street Wollstonecraft 2065	Multi Dwelling Housing																		5.5-6	Yes	0-0.5	Yes
13-15 (1-6) Lithgow Street Wollstonecraft 2065	Multi Dwelling Housing																		5.5-6	Yes	0-0.5	Yes
17 Lithgow Street Wollstonecraft 2065	Single Detached Dwelling																		6	Yes	0	Yes
19 Lithgow Street Wollstonecraft 2065	Single Detached Dwelling																		6	Yes	0	Yes
21 Lithgow Street Wollstonecraft 2065	Single Detached Dwelling																		6	Yes	0	Yes
23 Lithgow Street Wollstonecraft 2065	Semi-detached dwelling																		6	Yes	0	Yes
25 Lithgow Street Wollstonecraft 2065	Semi-detached dwelling																		6	Yes	0	Yes
27 Lithgow Street Wollstonecraft 2065	Semi-detached dwelling																		6	Yes	0	Yes
29 Lithgow Street Wollstonecraft 2065	Semi-detached dwelling																		6	Yes	0	Yes