



DAYLIGHT & SUNLIGHT
OVERSHADOWING ASSESSMENT

Trub Farm, Rochdale

13 May 2025

GIA No: **22737**

PROJECT DATA:

Client **MCI Developments**
Architect **MCI**
Project Title **Trub Farm, Rochdale**
Project Number **22737**

REPORT DATA:

Report Title **Overshadowing Assessments**
GIA Department **Daylight & Sunlight**
Dated **13 May 2025**

Prepared by **EP**
Checked by **NH**
Type **Planning**

Revisions	No:	Date:	Notes:	Signed:

DISCLAIMER:

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SOURCES OF INFORMATION:

Information Received **IR01**
Release Number **Rel_01**
Issue Number **1**
3D models **VU.CITY**
OS Data **FIND Maps**



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OS 100047514

CONTENTS

1	EXECUTIVE SUMMARY.....	2
2	SCENARIOS.....	4
3	TRANSIENT OVERSHADOWING	7
4	SUN HOURS ON GROUND	18

1 EXECUTIVE SUMMARY

GIA have assessed the MCI Developments proposed apartment blocks at Trub Farm, Rochdale to understand the extent of any potential overshadowing effects imparted to Rochdale Canal

- 1.1 GIA have been instructed by MCI Developments Ltd to undertake detailed technical assessments to understand the sunlight overshadowing effects of the proposed apartment blocks at Trub Farm, Rochdale.
- 1.2 We have completed a technical analysis using the methodologies set out within the Building Research Establishment Guidelines entitled 'Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice (2022)'.
- 1.3 The extent of our analysis has been limited to the overshadowing imparted by the apartment buildings, as these buildings were identified as the area of concern and the remaining buildings are not considered tall enough/close enough to the canal itself.
- 1.4 We have captured images of the shadow cast by the proposed apartment blocks at each sunlit hour of the day to plot the positioning of the shadow throughout the course of the day. We have carried out this exercise on 21st March (equinox), 21st June (Summer Solstice) and 21st December (Winter Solstice) in order to provide an accurate picture of the overshadowing throughout the course of the year.
- 1.5 We have also completed BRE sunlight assessments to the relevant area of the canal. The first is SHOG overshadowing (Sunlight Hours on Ground), which tests whether the area in question would receive at least 2 hours of direct sunlight on March 21st. This is considered by the BRE to be an adequate levels of sunlight for outdoor amenity areas. For completeness, we have also carried out this test on the 21st of June to understand sunlight access in the summer months.
- 1.6 We have also carried out an assessment of the sunlight exposure to the Rochdale Canal. This test provides a greater picture as to how many hours of direct sunlight each area of the canal receives rather than just whether or not it receives 2 or more hours.
- 1.7 In summary, our transient overshadowing assessments indicate that the proposed apartments would scarcely overshadow the Rochdale Canal at any point throughout the year. The shadow of the proposed apartments would briefly pass over the main body of the Canal during the last hour of daylight when the sun is at its lowest in the sky, however our exposure assessments illustrate that the canal would still receive very high levels of sunlight throughout the year.

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2 SCENARIOS

EXISTING



Fig. 01: Top View - Existing Scenario



Fig. 02: Perspective View - Existing Scenario

PROPOSED



Fig. 03: Top View - Proposed Scenario



Fig. 04: Perspective View - Proposed Scenario

3 TRANSIENT OVERSHADOWING

21st March (Equinox)

21st June (Summer Solstice)

21st December (Winter Solstice)

TRANSIENT OVERSHADOWING ASSESSMENT
21ST MARCH (08:00 - 13:00 GMT)





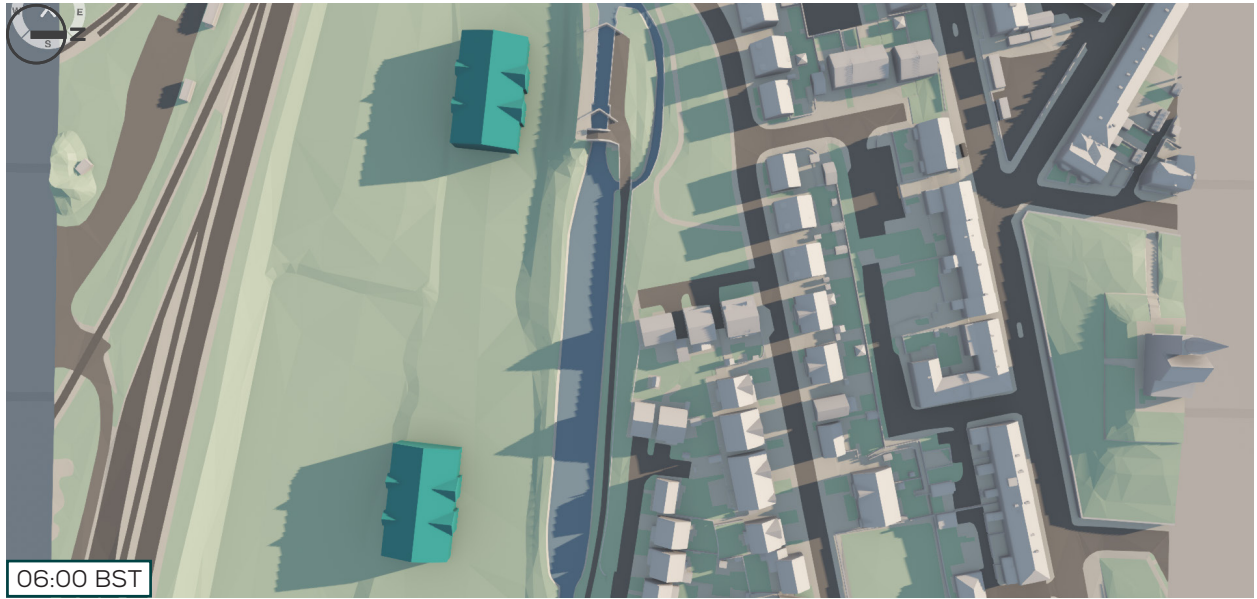
TRANSIENT OVERSHADOWING ASSESSMENT
21ST MARCH (14:00 - 17:00 GMT)

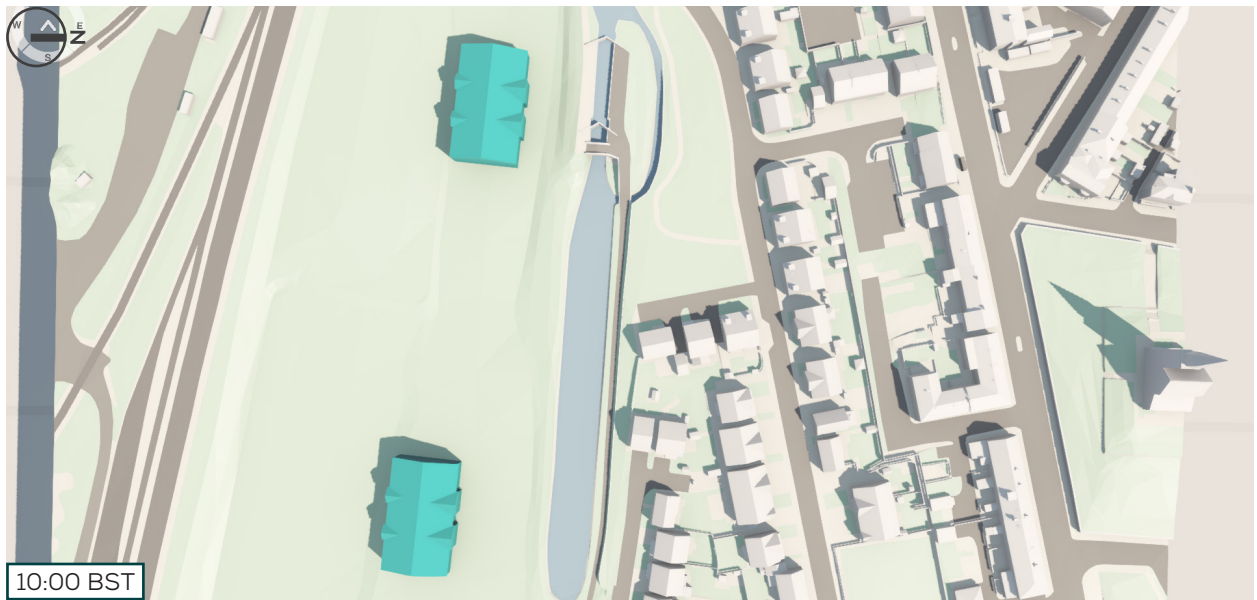
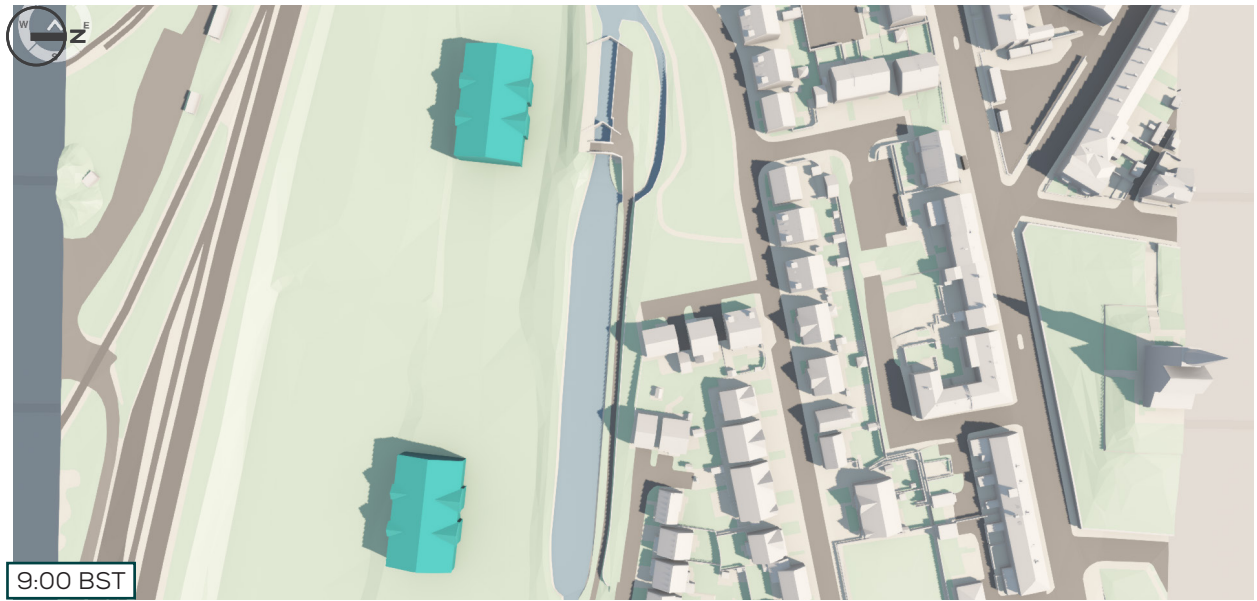




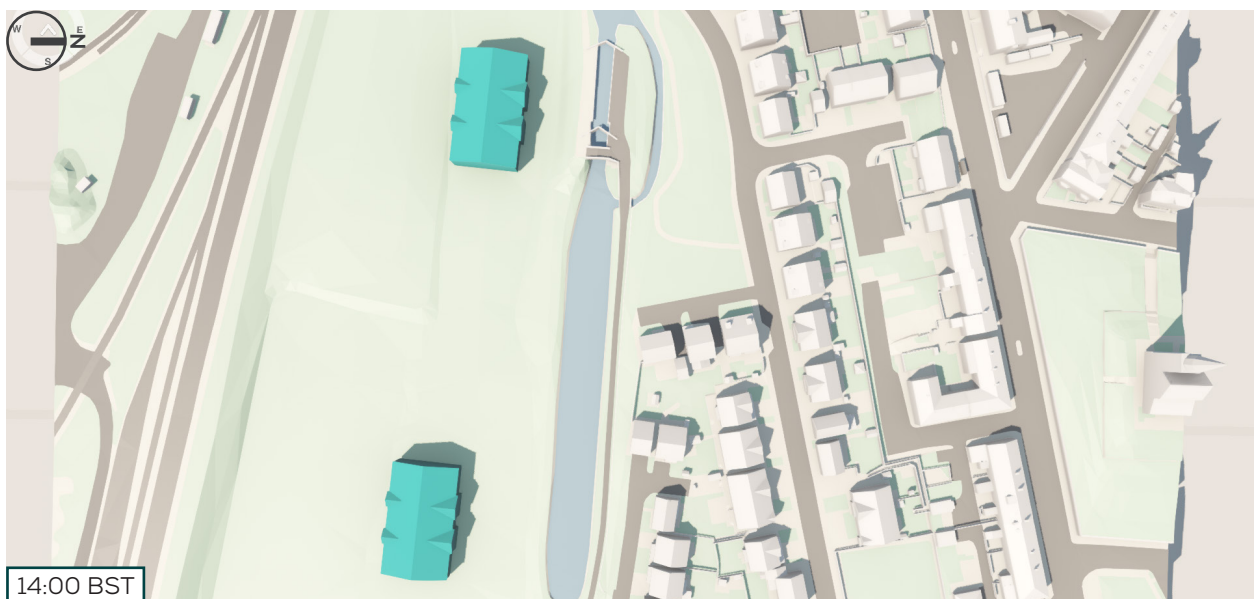
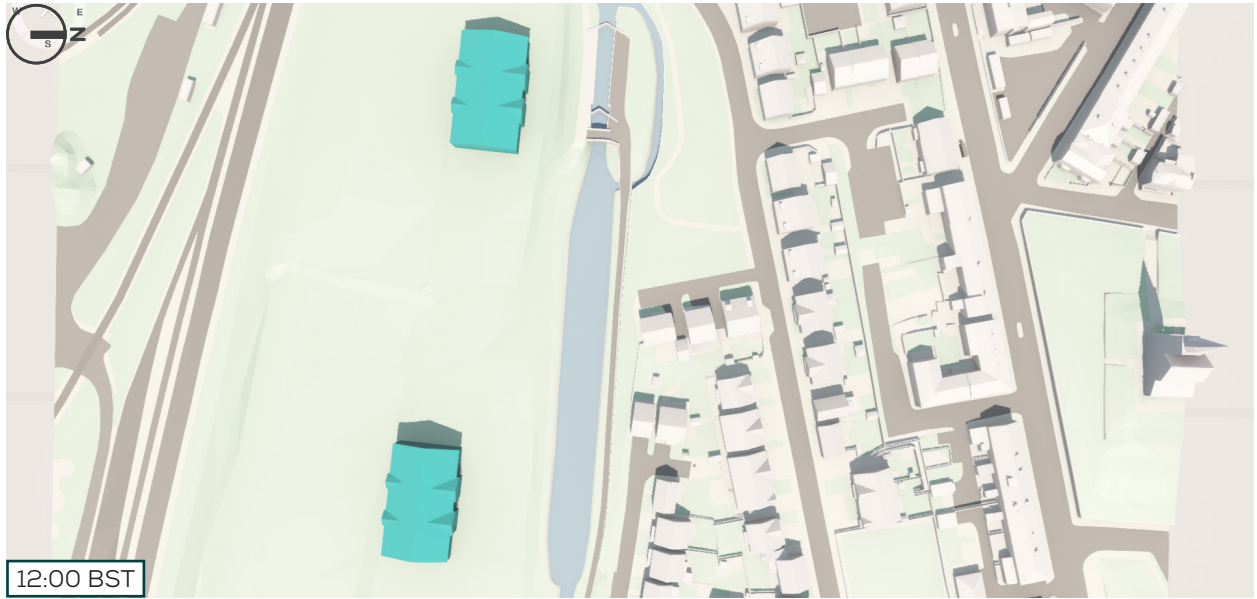
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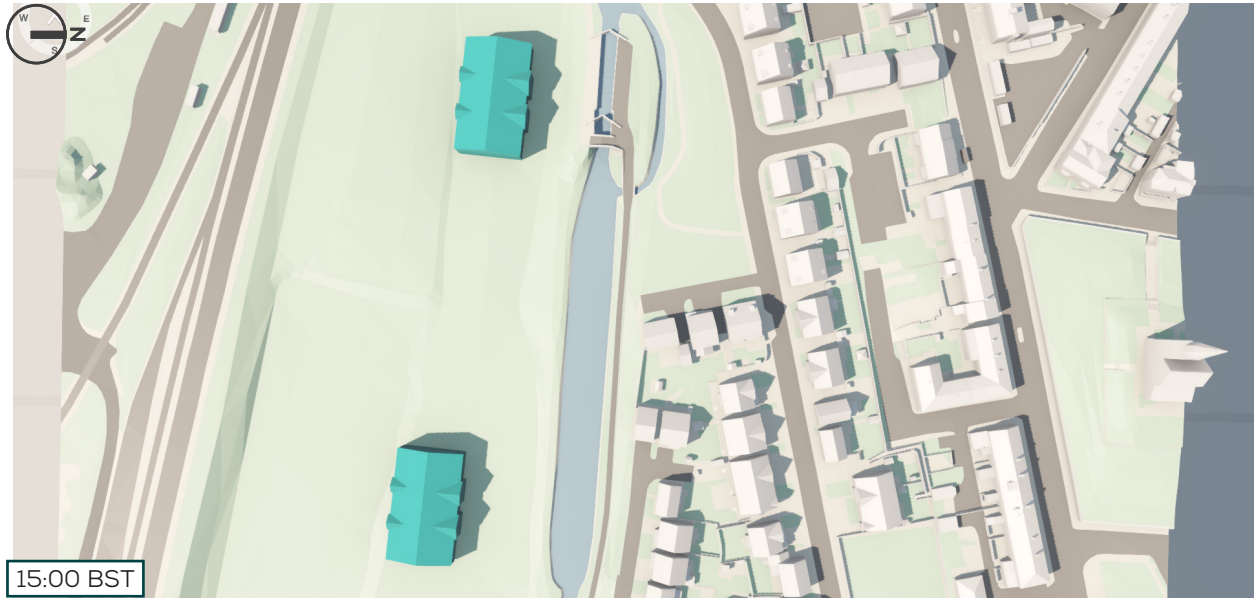
TRANSIENT OVERSHADOWING ASSESSMENT
21ST JUNE (06:00 - 11:00 BST)





TRANSIENT OVERSHADOWING ASSESSMENT
21ST JUNE (12:00 - 17:00 BST)



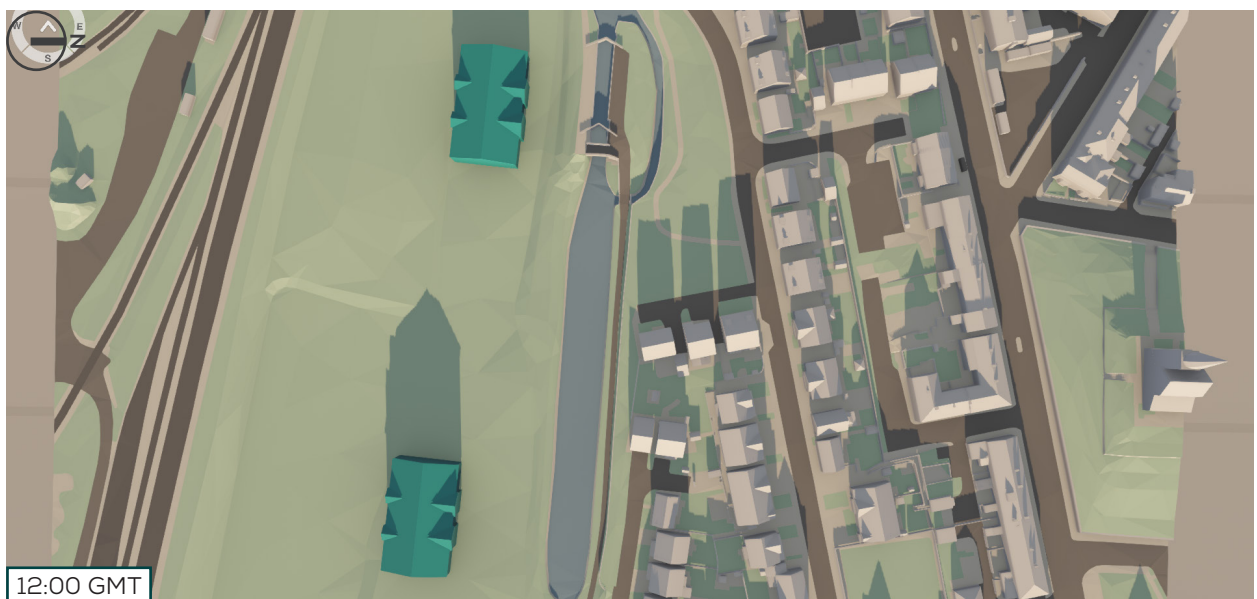


TRANSIENT OVERSHADOWING ASSESSMENT
21ST JUNE (18:00 - 20:00 BST)



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TRANSIENT OVERSHADOWING ASSESSMENT
21ST DECEMBER (10:00 - 15:00 GMT)





4 SUN HOURS ON GROUND

ROCHDALE CANAL

PROPOSED - MARCH 21ST

BRE TEST

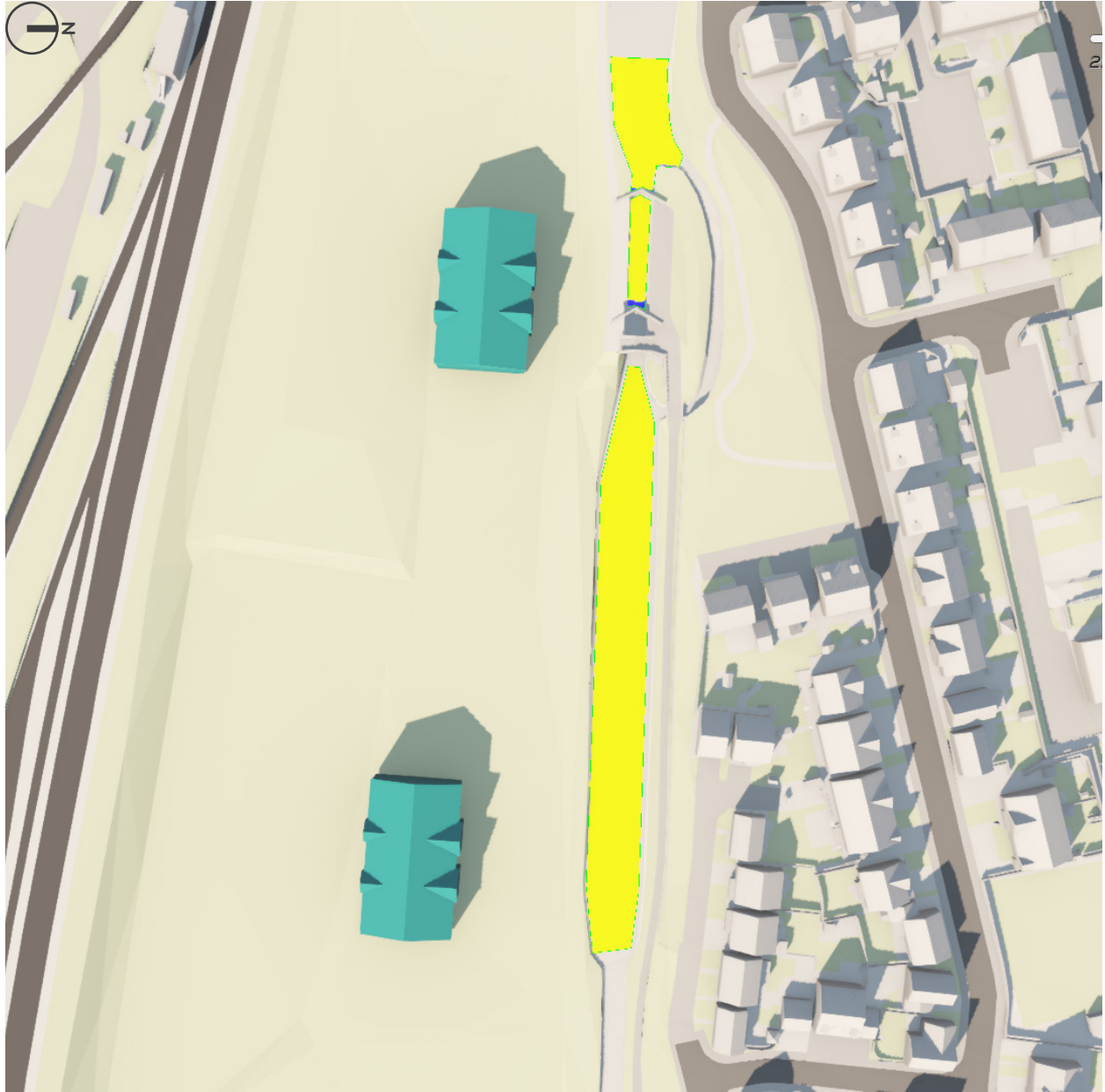


Fig. 05: BRE Test - Proposed Scenario

(BRE RECOMMENDS 2+ HOURS OF SUNLIGHT ON 21ST MARCH FOR AT LEAST 50% OF THE OPEN SPACE)

SUN HOURS ON GROUND
BRE TEST - 21ST MARCH



ROCHDALE CANAL
PROPOSED - JUNE 21ST

BRE TEST

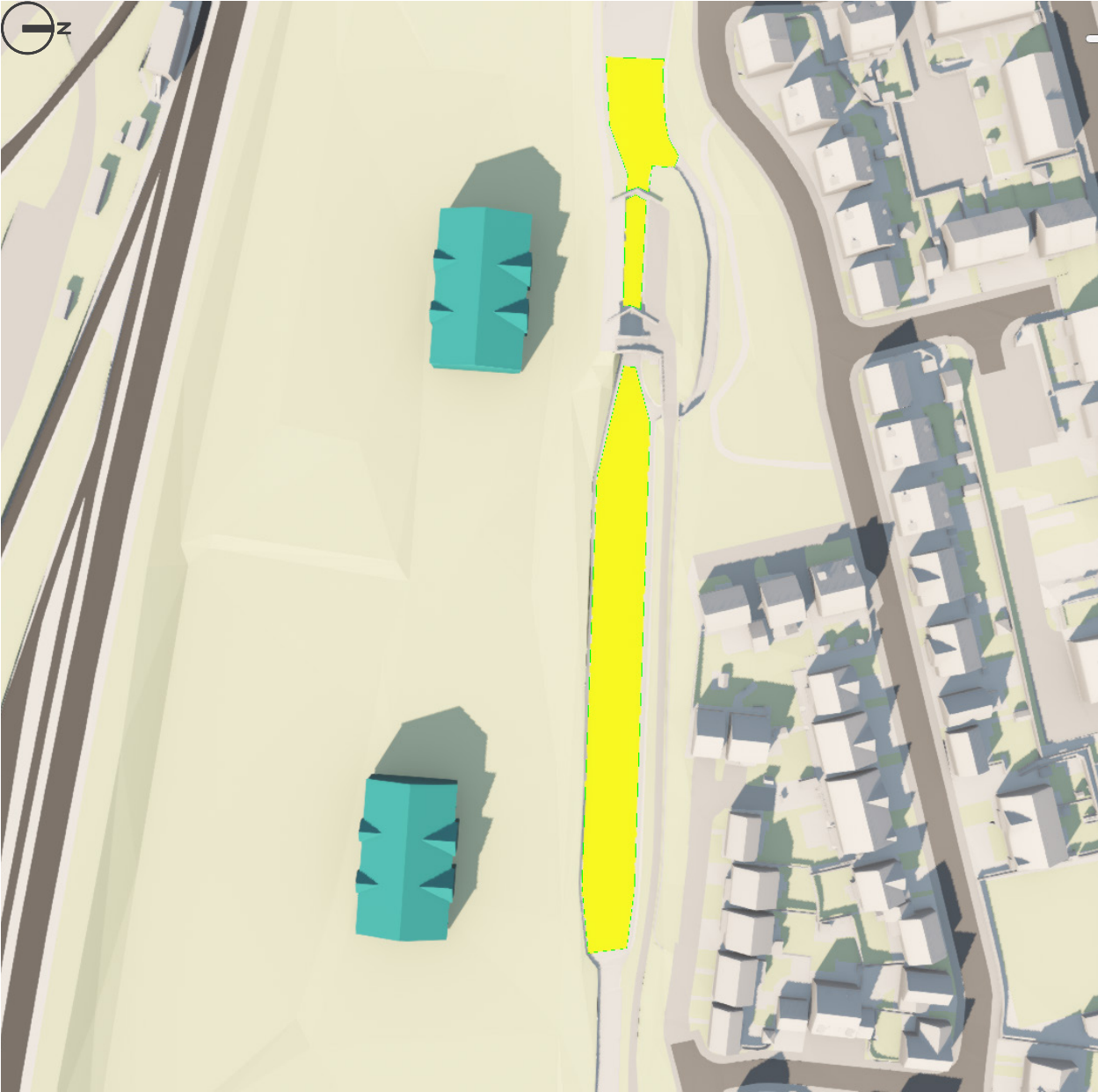
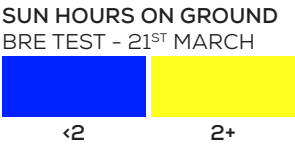


Fig. 06: BRE Test - Proposed Scenario

(BRE RECOMMENDS 2+ HOURS OF SUNLIGHT ON 21ST MARCH FOR AT LEAST 50% OF THE OPEN SPACE)



ROCHDALE CANAL
PROPOSED - MARCH 21ST

SUN EXPOSURE - 21ST MARCH

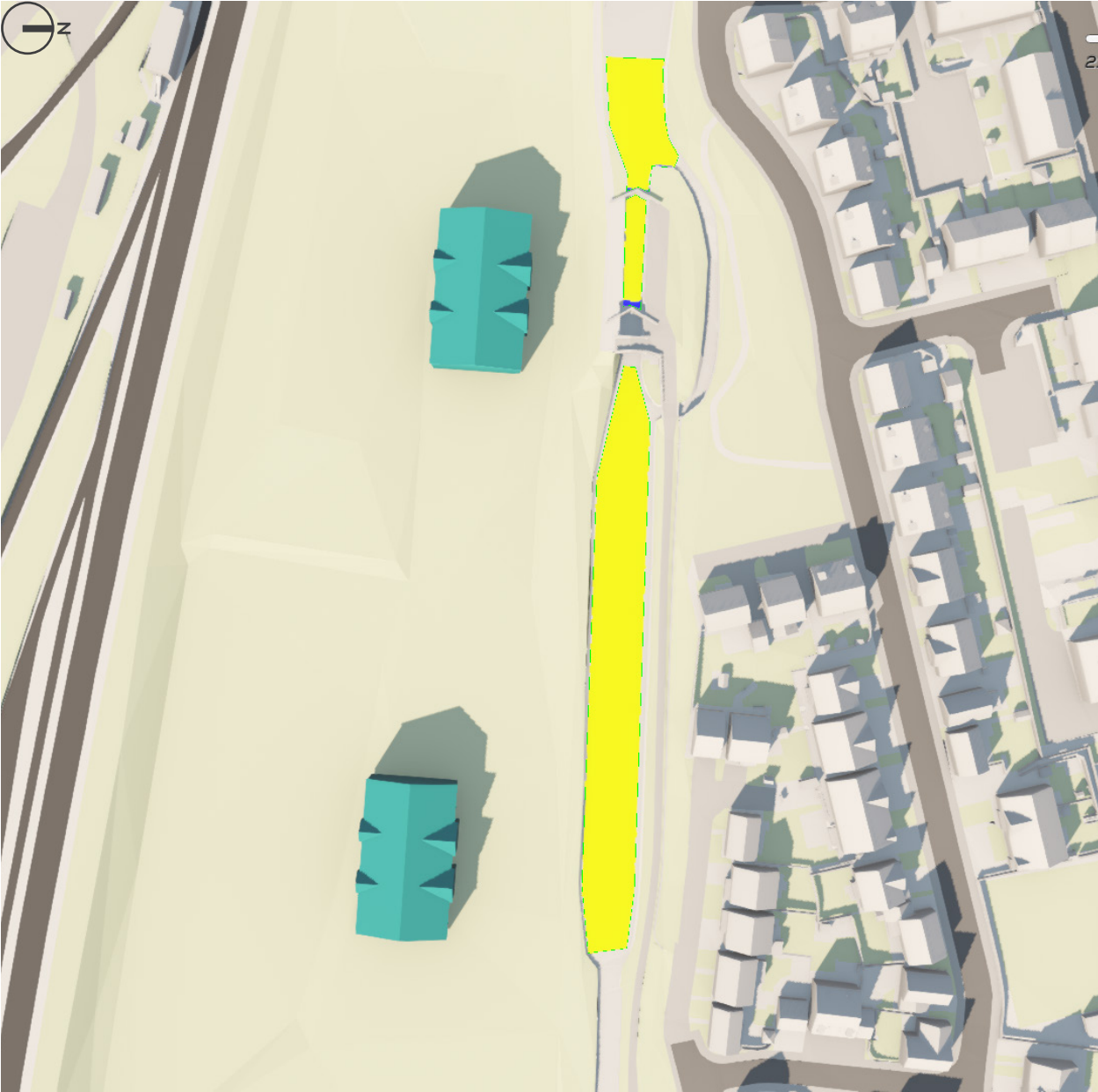
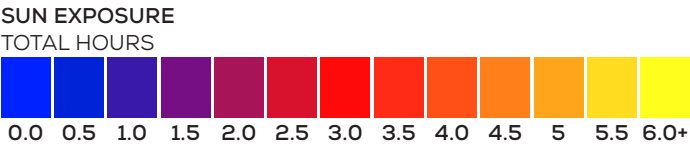


Fig. 07: Sun Exposure - Proposed Scenario



ROCHDALE CANAL
PROPOSED - JUNE 21ST

SUN EXPOSURE - 21ST JUNE

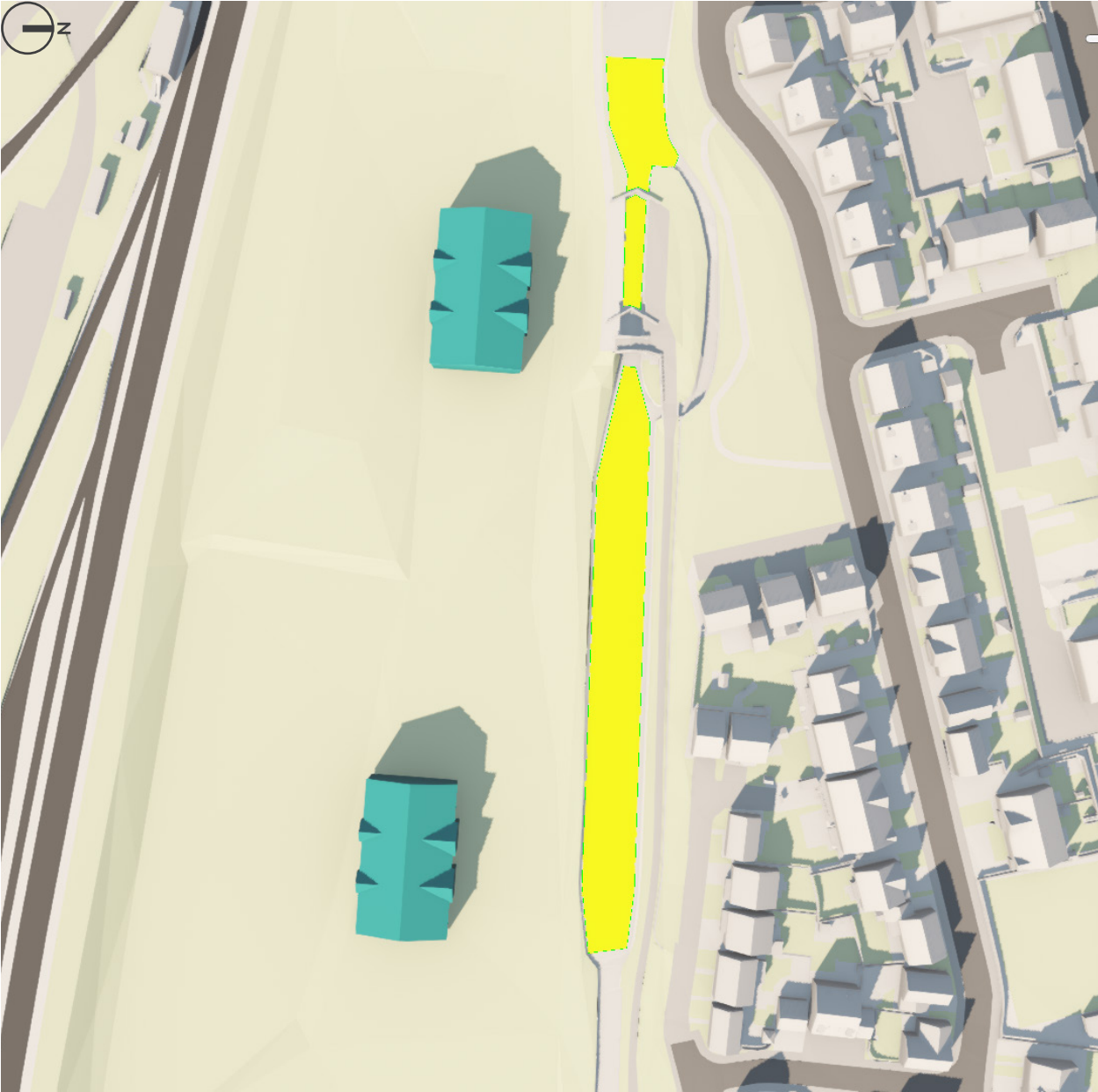
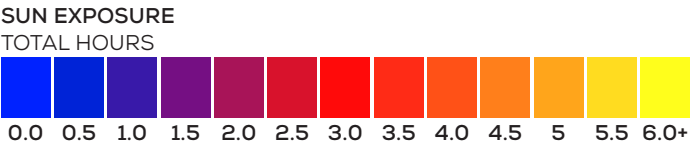


Fig. 08: Sun Exposure - Proposed Scenario





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