



Norwich Western Link

Environmental Statement

Chapter 12: Road Drainage and the Water Environment

Sub Appendix B - Velocity

Author: WSP

Document Reference: 3.12.04b

Version Number: 00

Date: March 2024



Contents

1 Appendix B: Velocity 4

Figures

Figure 1-1 Flood map for the 1 in 2yr Baseline event. Indicating the velocity ranging from 0 to >2.5m/s..... 5

Figure 1-2 Flood map for the 1 in 20yr Baseline event. Indicating the velocity ranging from 0 to >2.5m/s..... 6

Figure 1-3 Flood map for the 1 in 100yr Baseline event. Indicating the velocity ranging from 0 to >2.5m/s..... 7

Figure 1-4 Flood map for the 1 in 100yr + 20% Climate Change Baseline event. Indicating the velocity ranging from 0 to >2.5m/s..... 8

Figure 1-5 Flood map for the 1 in 2yr with scheme in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s..... 9

Figure 1-6 Flood map for the 1 in 20yr with scheme in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s. 10

Figure 1-7 Flood map for the 1 in 100yr with scheme in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s. 11

Figure 1-8 Flood map for the 1 in 100yr + 20% Climate Change with scheme in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s. 12

Figure 1-9 Flood map for the 1 in 2yr with scheme in operation. Indicating the velocity ranging from 0 to >2.5m/s..... 13

Figure 1-10 Flood map for the 1 in 20yr with scheme in operation. Indicating the velocity ranging from 0 to >2.5m/s..... 14

Figure 1-11 Flood map for the 1 in 100yr with scheme in operation. Indicating the velocity ranging from 0 to >2.5m/s..... 15

Figure 1-12 Flood map for the 1 in 100yr + 20% Climate Change with scheme in operation. Indicating the velocity ranging from 0 to >2.5m/s..... 16

Figure 1-13 Flood map for the 1 in 2yr with temporary works in operation. Indicating the velocity ranging from 0 to >2.5m/s..... 17

Figure 1-14 Flood map for the 1 in 20yr with temporary works in operation. Indicating the velocity ranging from 0 to >2.5m/s..... 18

Figure 1-15 Flood map for the 1 in 100yr with temporary works in operation. Indicating the velocity ranging from 0 to >2.5m/s..... 19



Figure 1-16 Flood map for the 1 in 100yr + 20% Climate Change with temporary works in operation. Indicating the velocity ranging from 0 to >2.5m/s..... 20

Figure 1-17 Flood map for the 1 in 2yr with temporary works in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s..... 21

Figure 1-18 Flood map for the 1 in 20yr with temporary works in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s..... 22

Figure 1-19 Flood map for the 1 in 100yr with temporary works in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s..... 23

Figure 1-20 Flood map for the 1 in 100yr +20% Climate Change with temporary works in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s..... 24



1 Appendix B: Velocity

1.1.1 **Figure 1-1** to **Figure 1-20** show the flood maps through the different modelled return periods for the baseline and with scheme scenarios showing the velocities.

Figure 1-1 Flood map for the 1 in 2yr Baseline event. Indicating the velocity ranging from 0 to >2.5m/s.

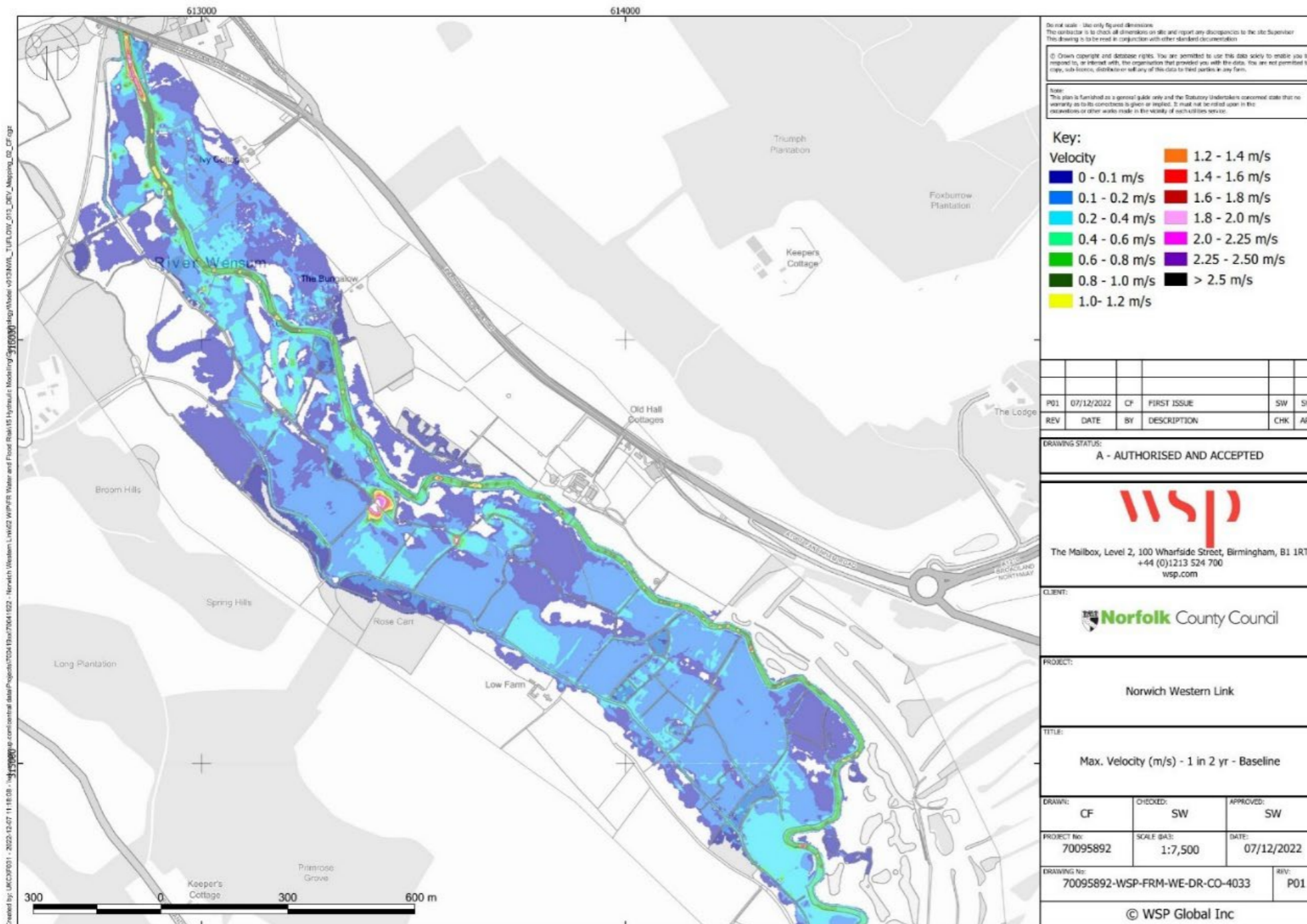


Figure 1-2 Flood map for the 1 in 20yr Baseline event. Indicating the velocity ranging from 0 to >2.5m/s.

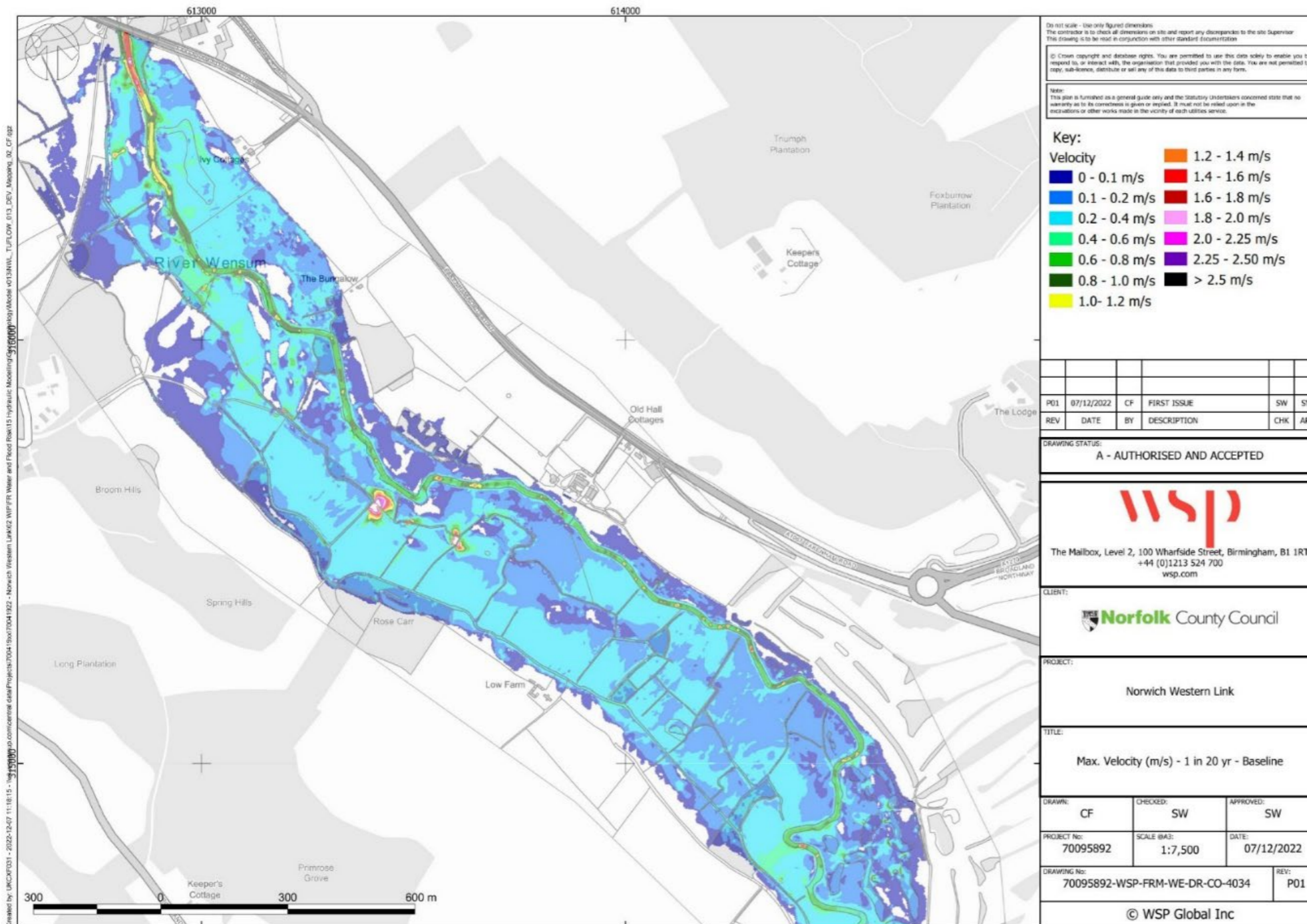


Figure 1-3 Flood map for the 1 in 100yr Baseline event. Indicating the velocity ranging from 0 to >2.5m/s.

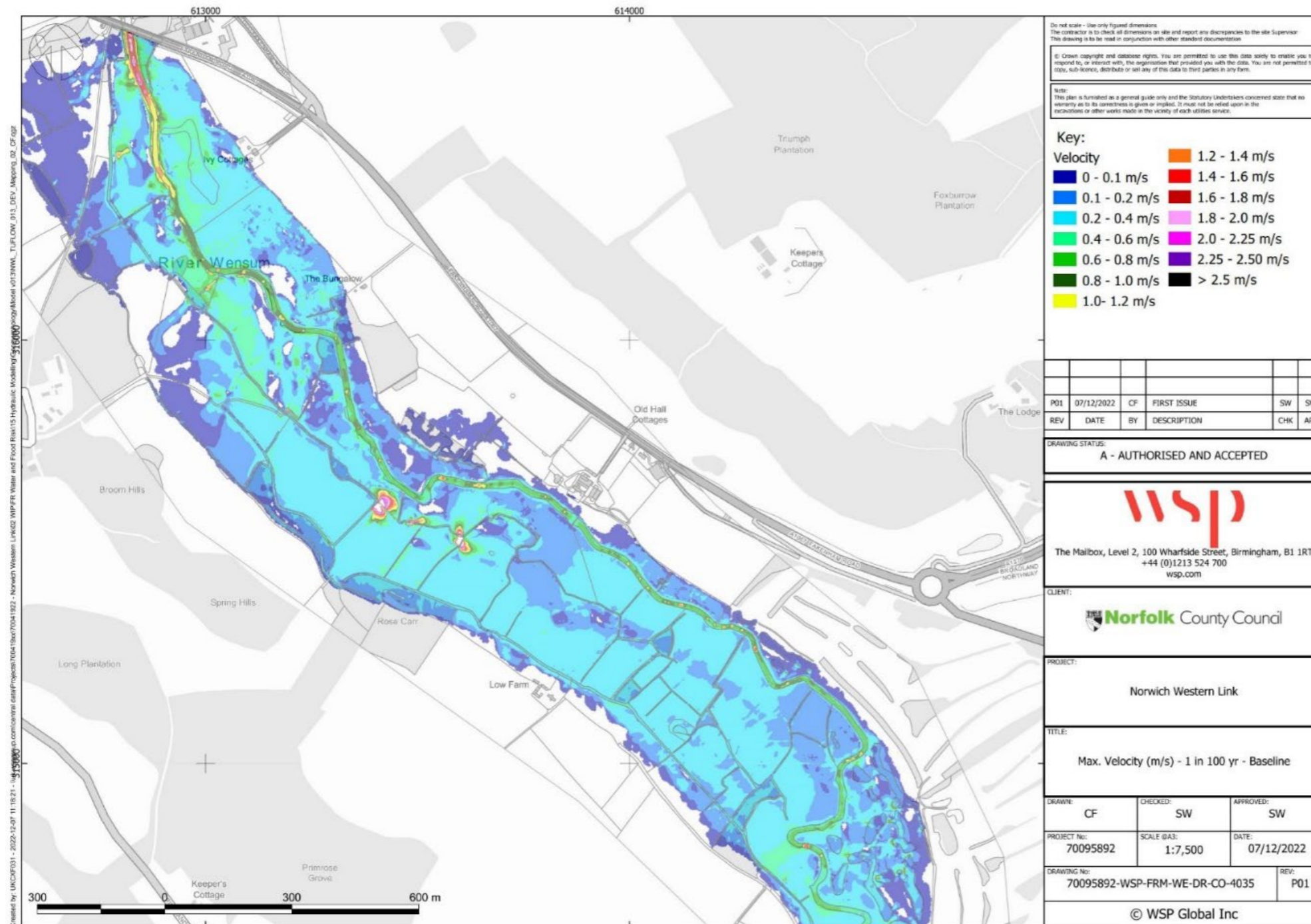


Figure 1-4 Flood map for the 1 in 100yr + 20% Climate Change Baseline event. Indicating the velocity ranging from 0 to >2.5m/s.

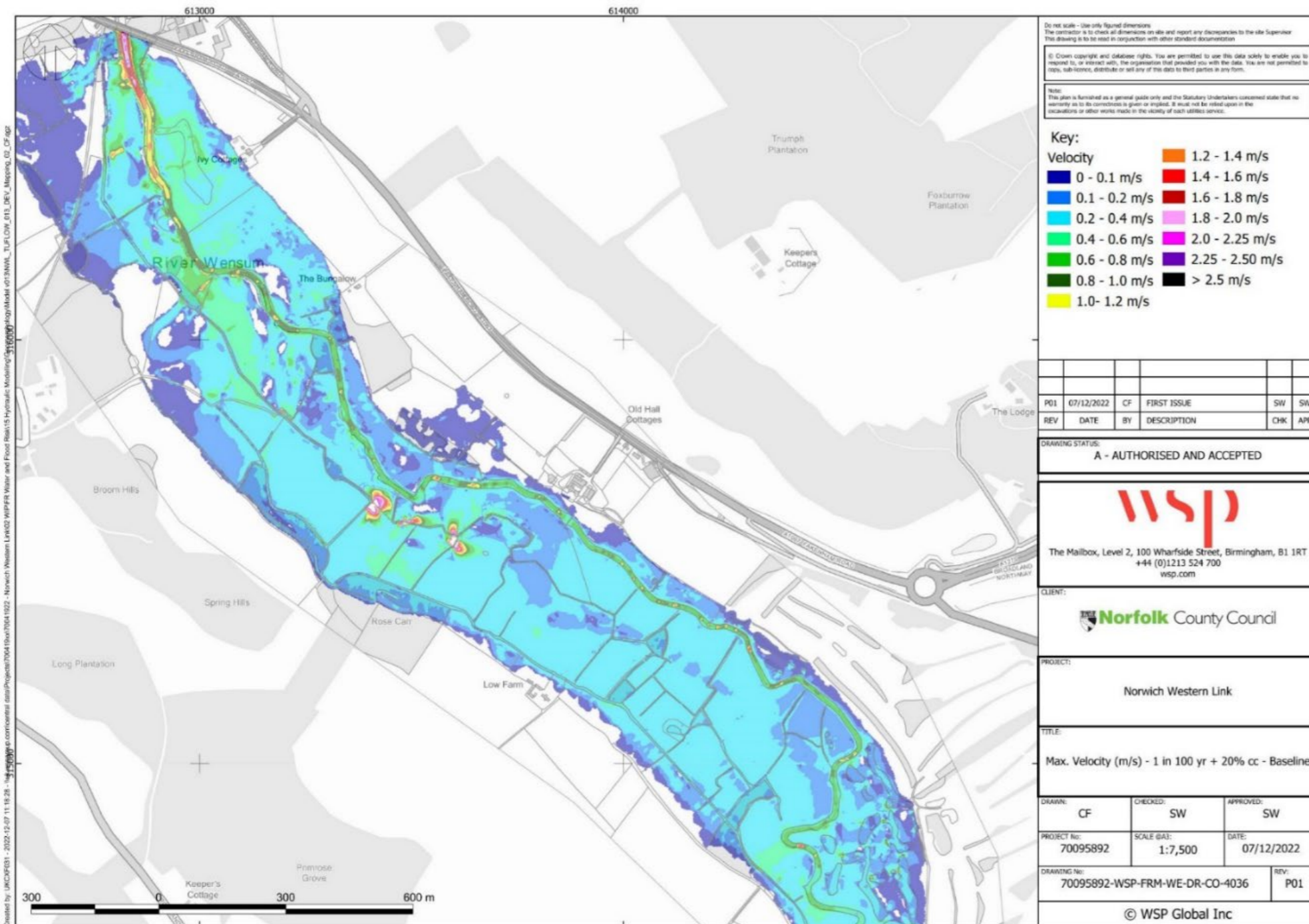


Figure 1-5 Flood map for the 1 in 2yr with scheme in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s.

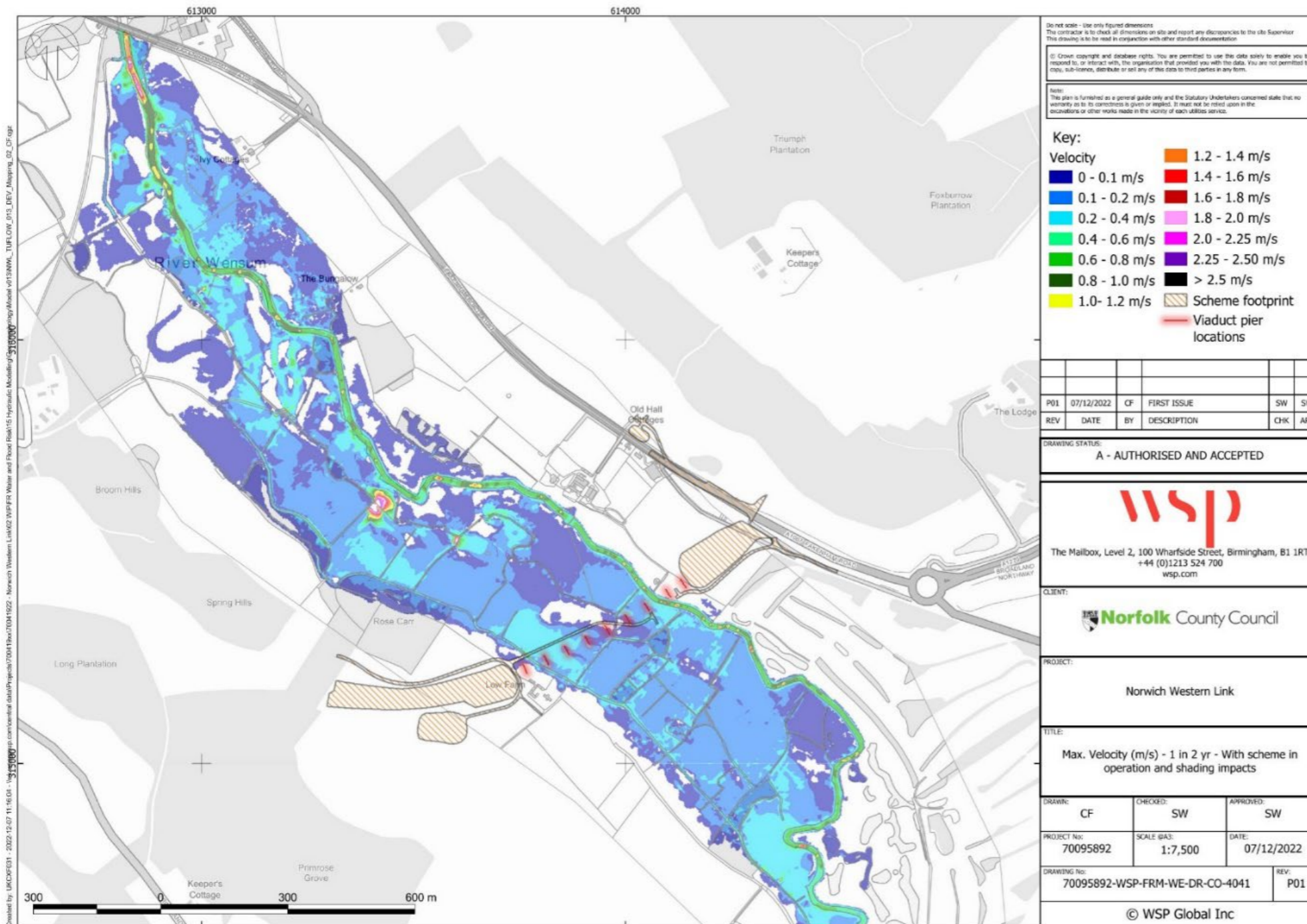


Figure 1-6 Flood map for the 1 in 20yr with scheme in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s.

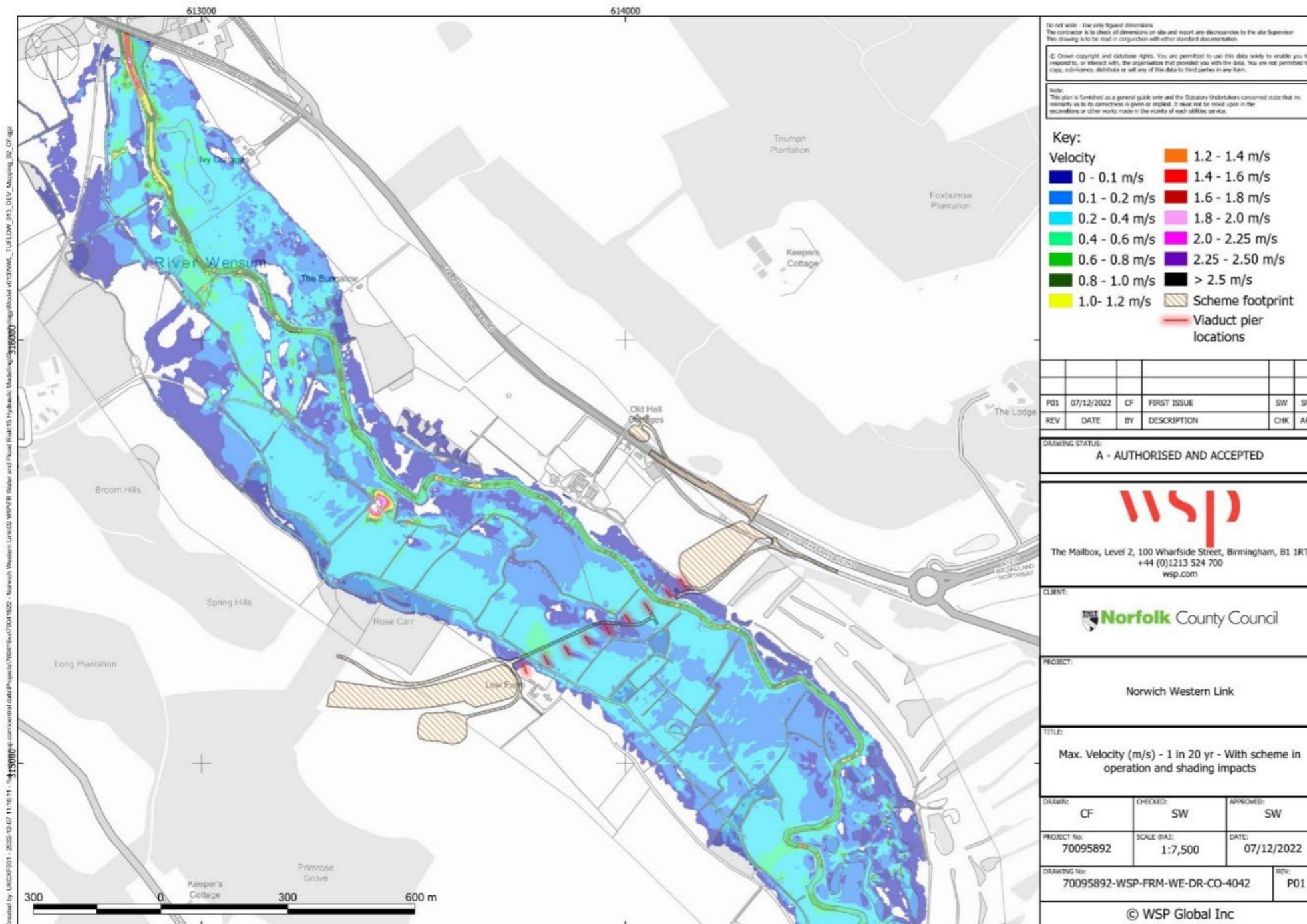


Figure 1-7 Flood map for the 1 in 100yr with scheme in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s.

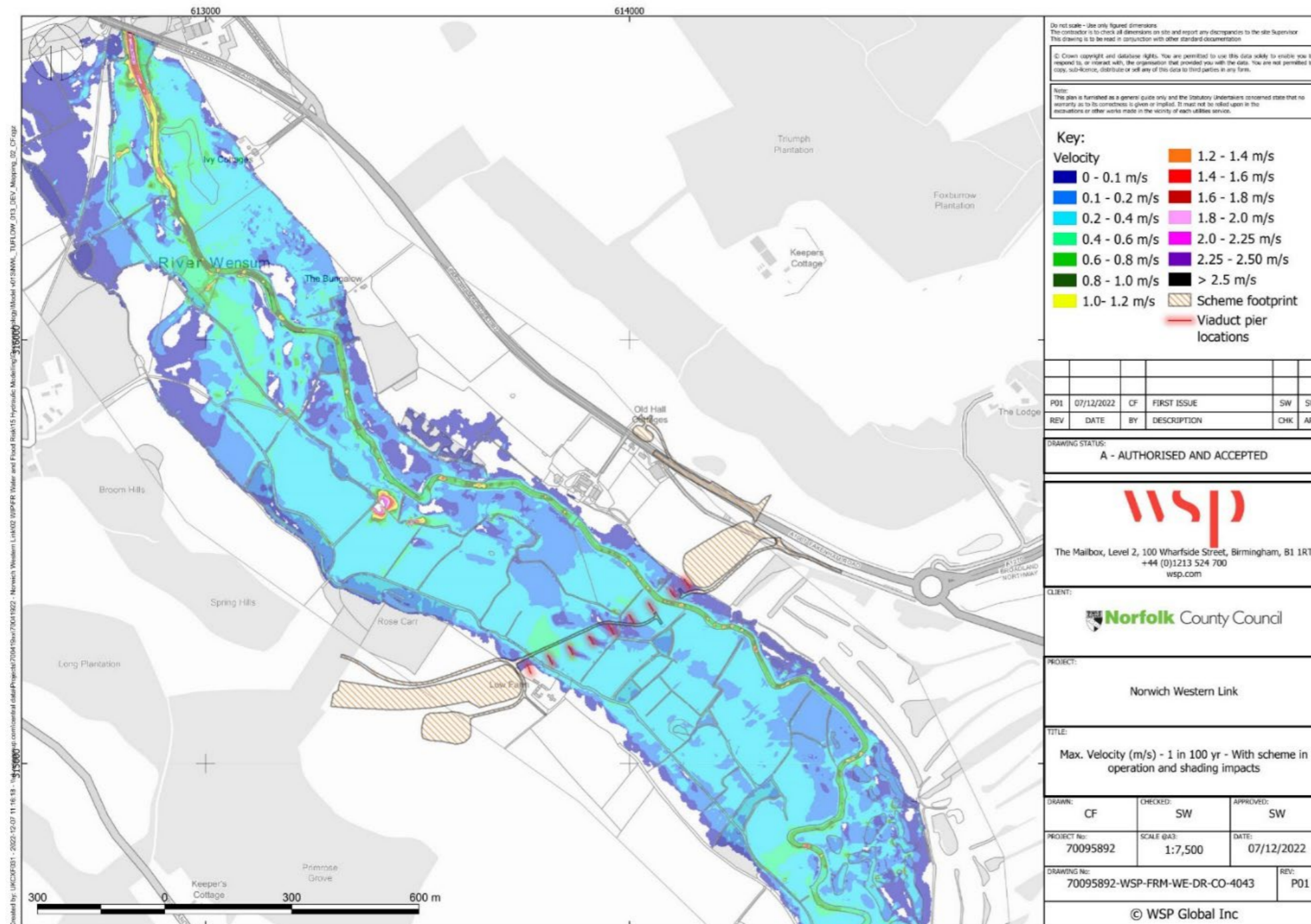


Figure 1-8 Flood map for the 1 in 100yr + 20% Climate Change with scheme in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s.

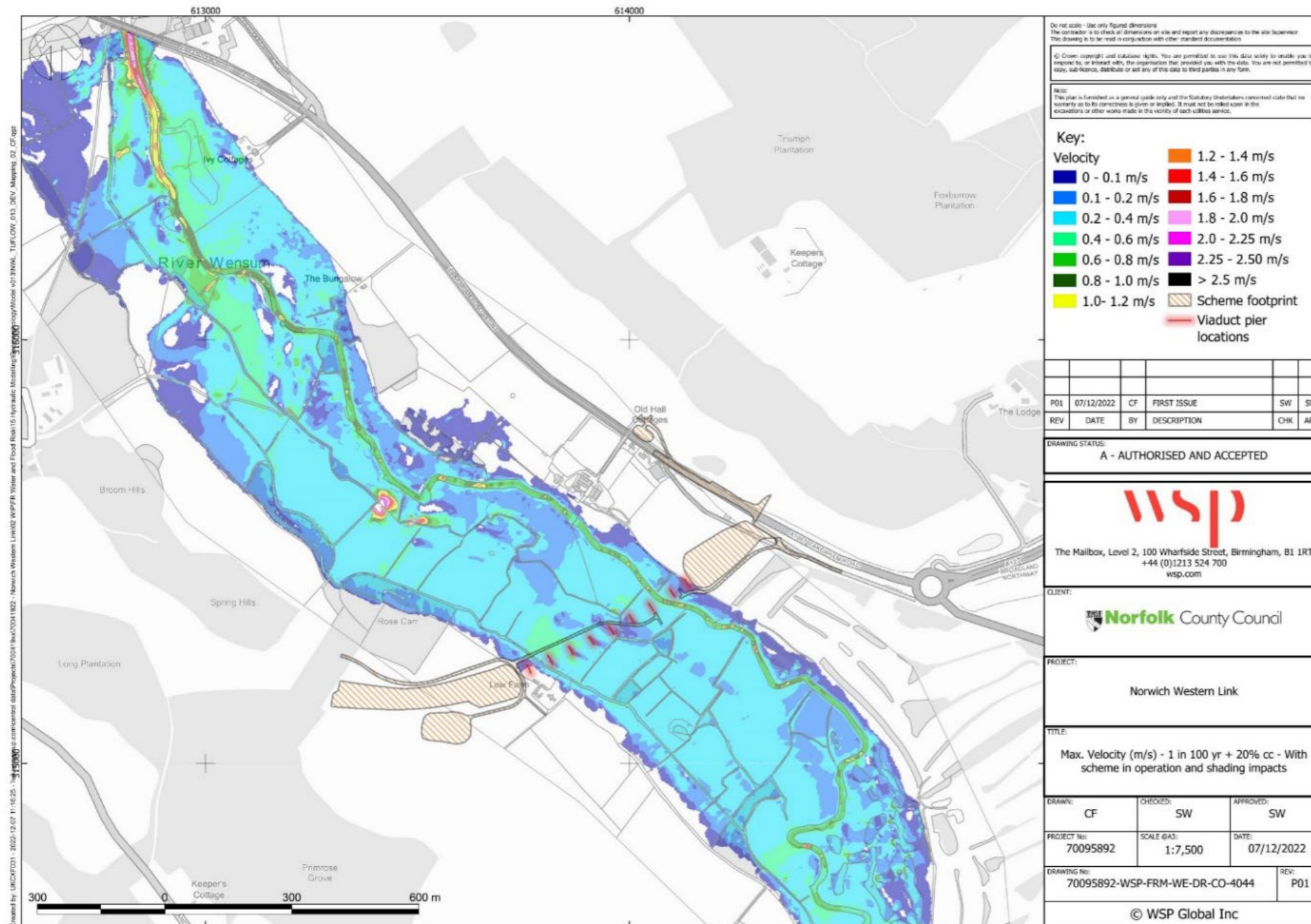


Figure 1-9 Flood map for the 1 in 2yr with scheme in operation. Indicating the velocity ranging from 0 to >2.5m/s.

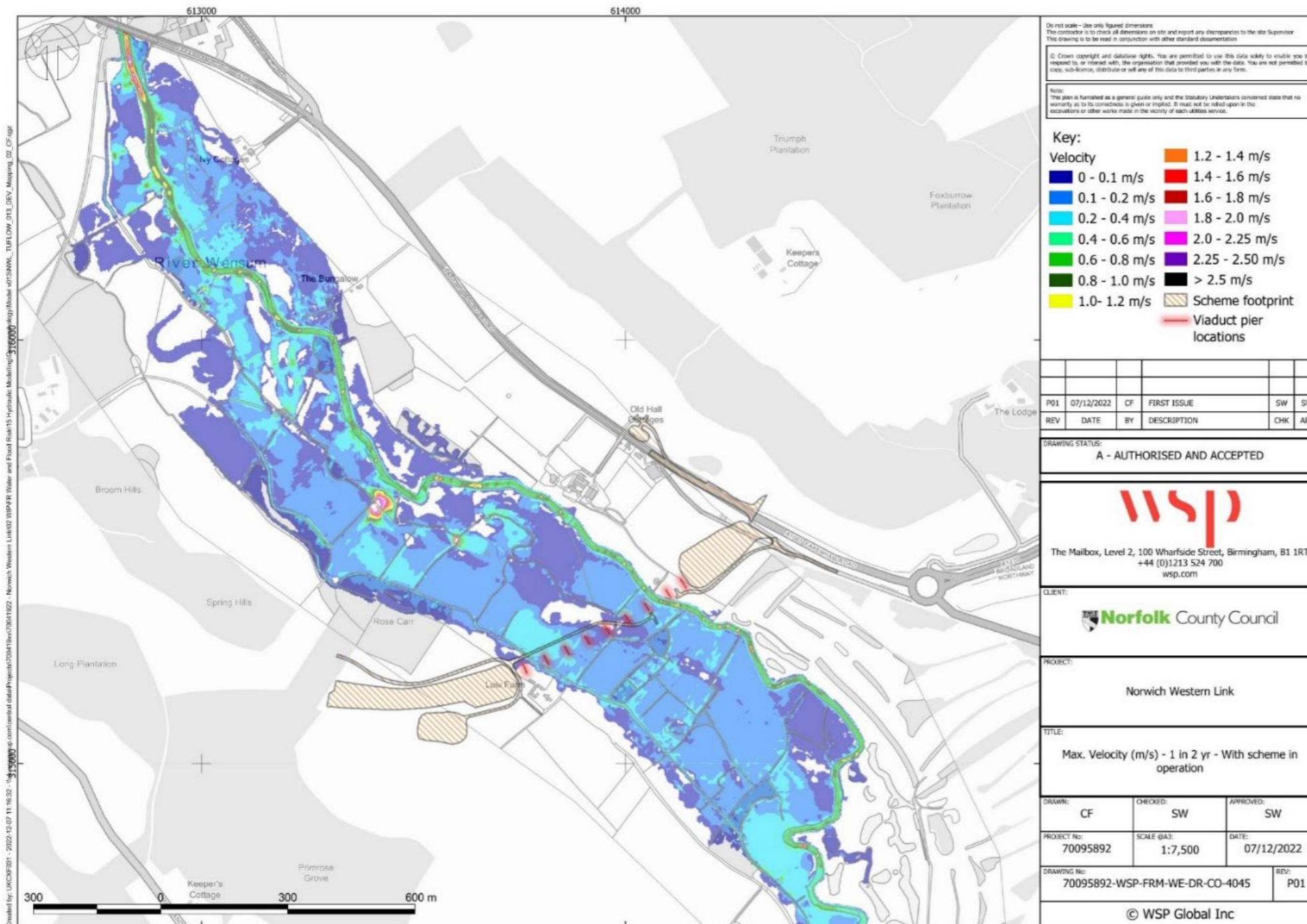


Figure 1-10 Flood map for the 1 in 20yr with scheme in operation. Indicating the velocity ranging from 0 to >2.5m/s.

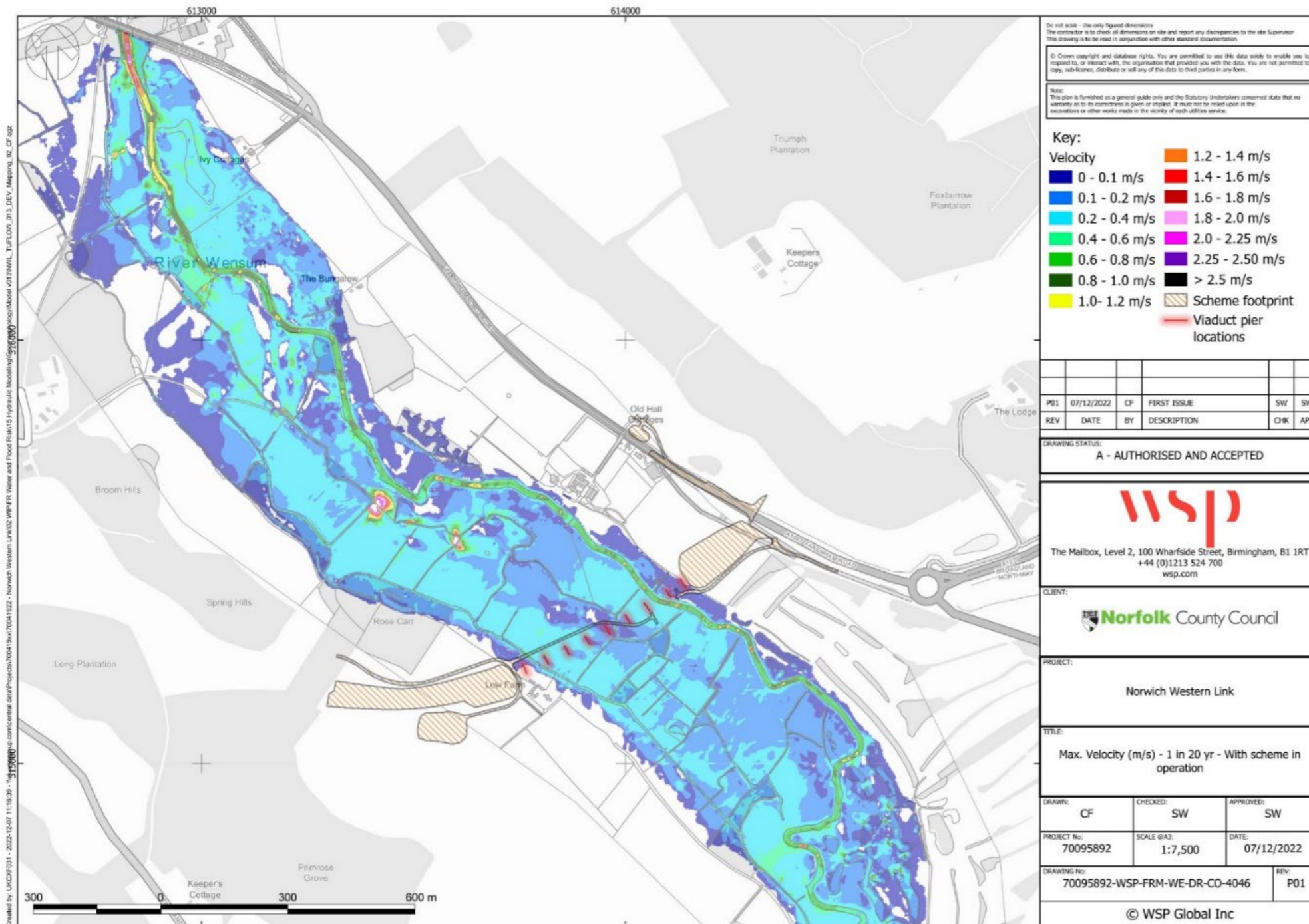


Figure 1-11 Flood map for the 1 in 100yr with scheme in operation. Indicating the velocity ranging from 0 to >2.5m/s.

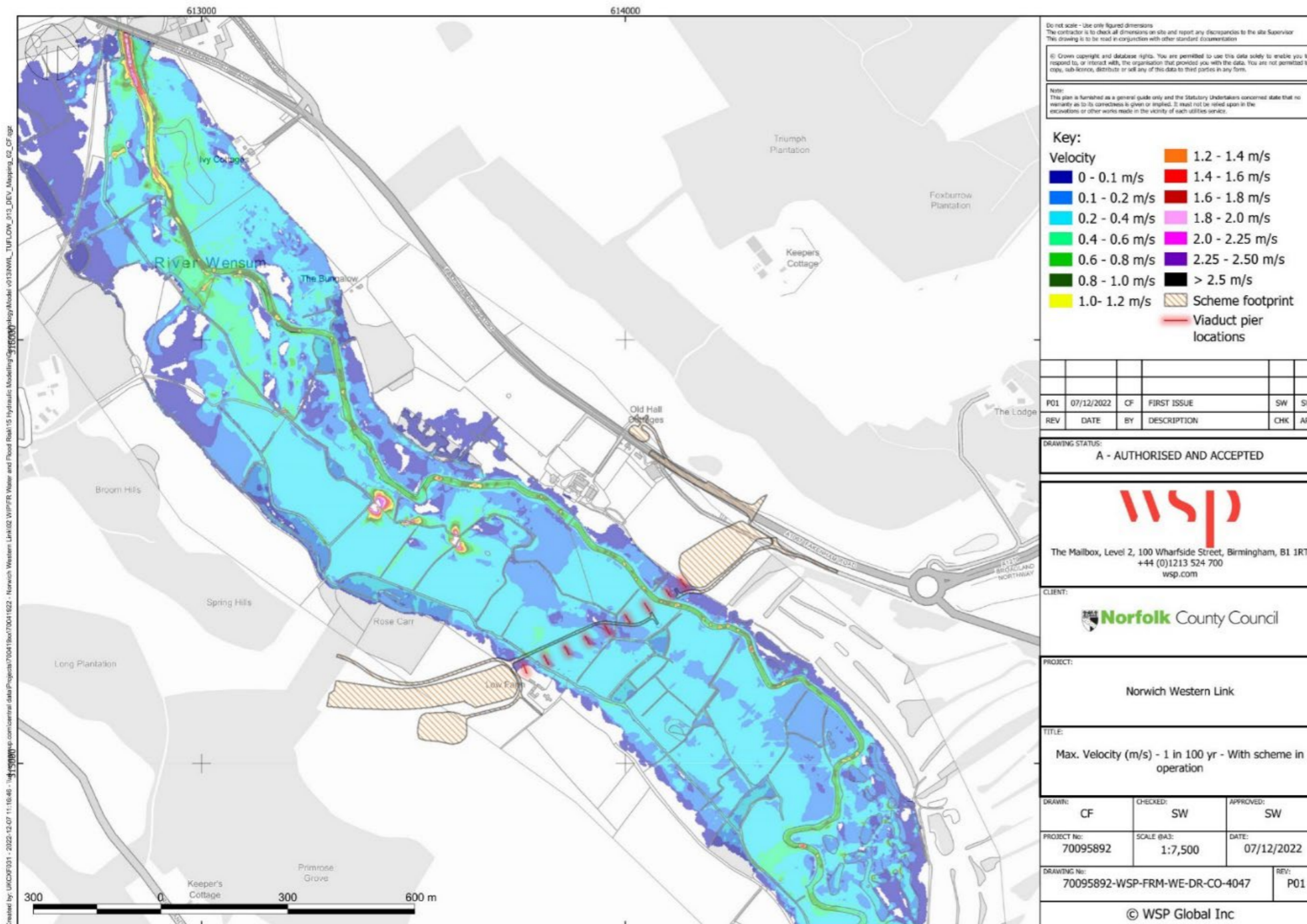


Figure 1-12 Flood map for the 1 in 100yr + 20% Climate Change with scheme in operation. Indicating the velocity ranging from 0 to >2.5m/s.

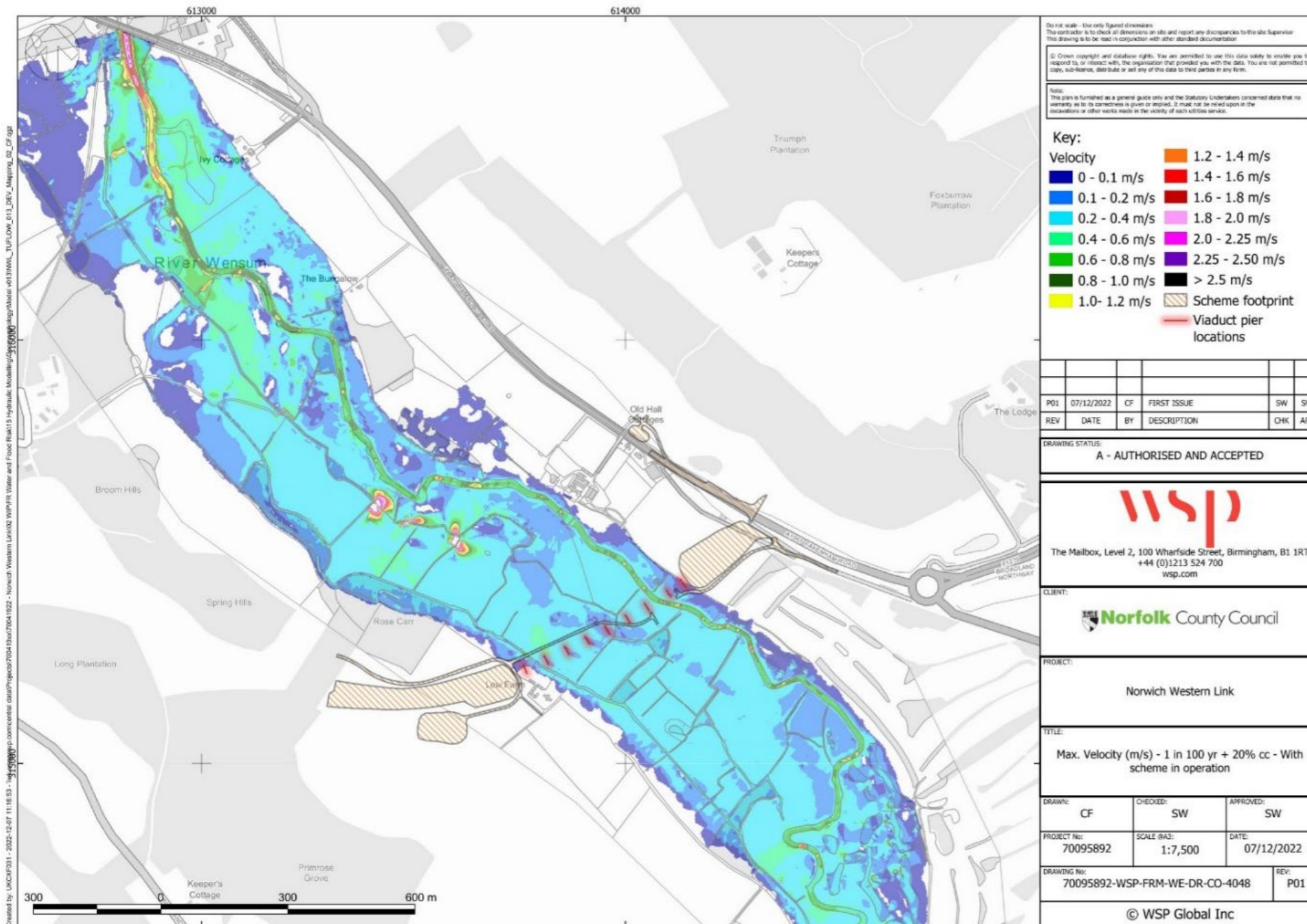


Figure 1-13 Flood map for the 1 in 2yr with temporary works in operation. Indicating the velocity ranging from 0 to >2.5m/s.

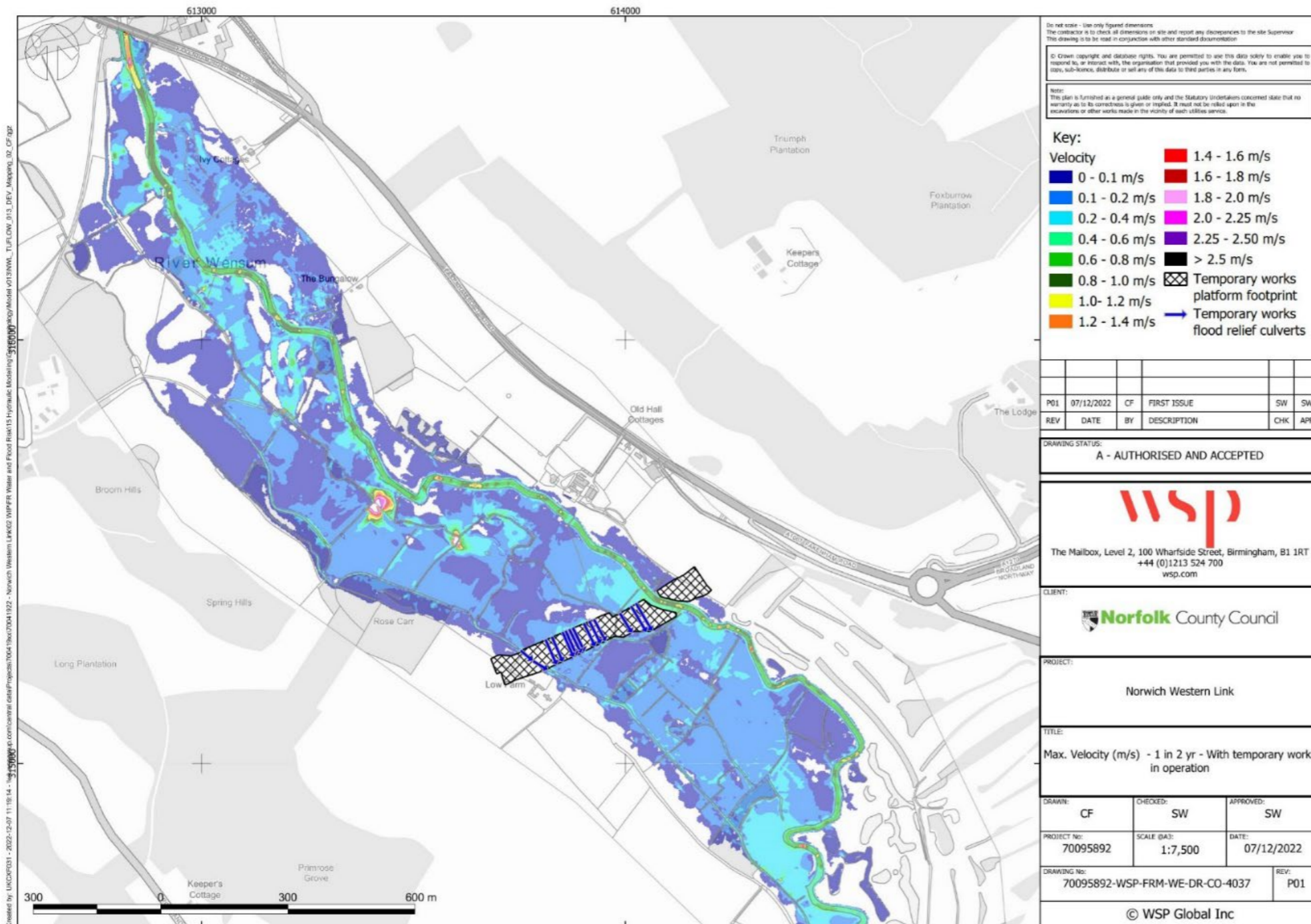


Figure 1-14 Flood map for the 1 in 20yr with temporary works in operation. Indicating the velocity ranging from 0 to >2.5m/s.

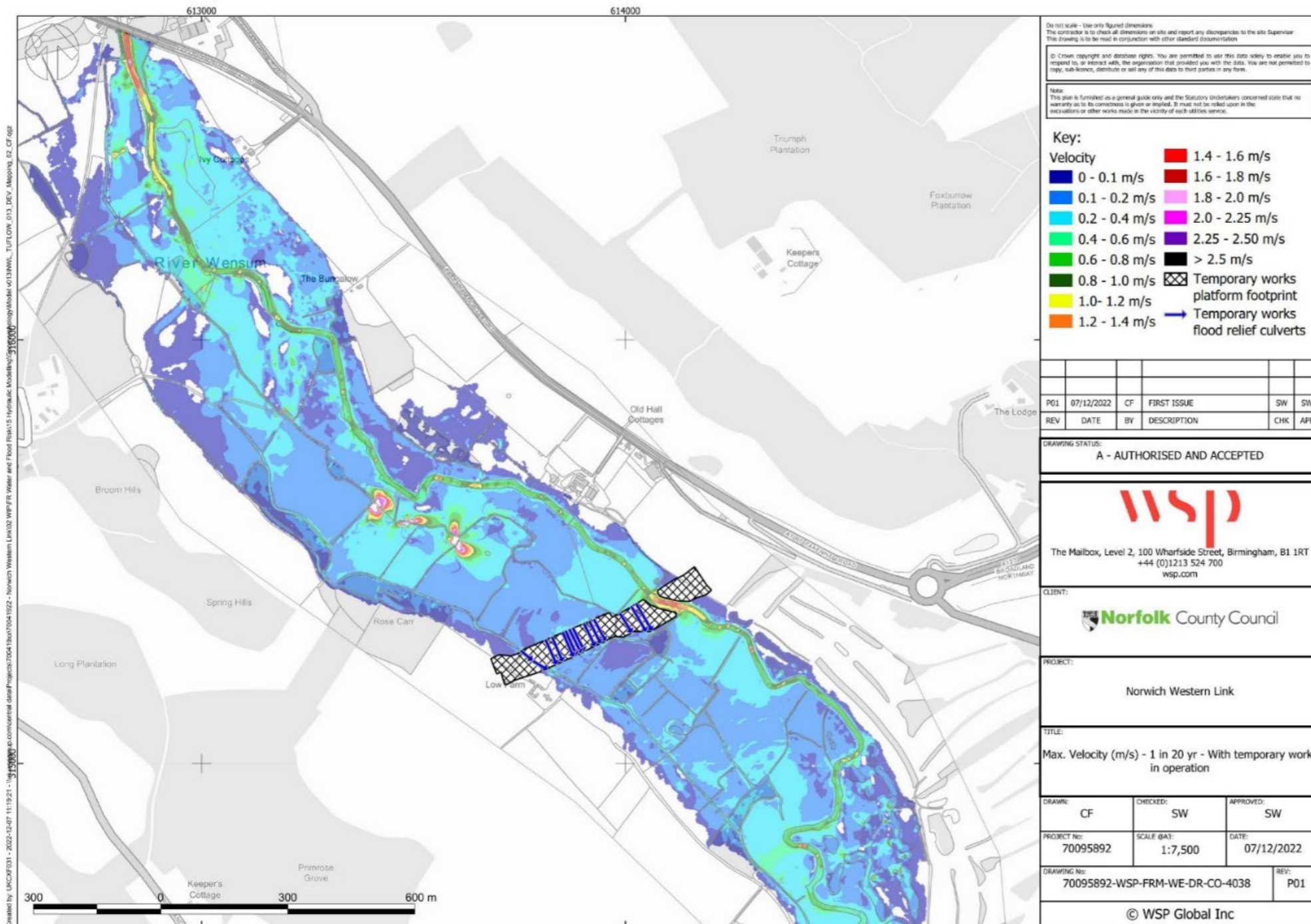


Figure 1-15 Flood map for the 1 in 100yr with temporary works in operation. Indicating the velocity ranging from 0 to >2.5m/s.

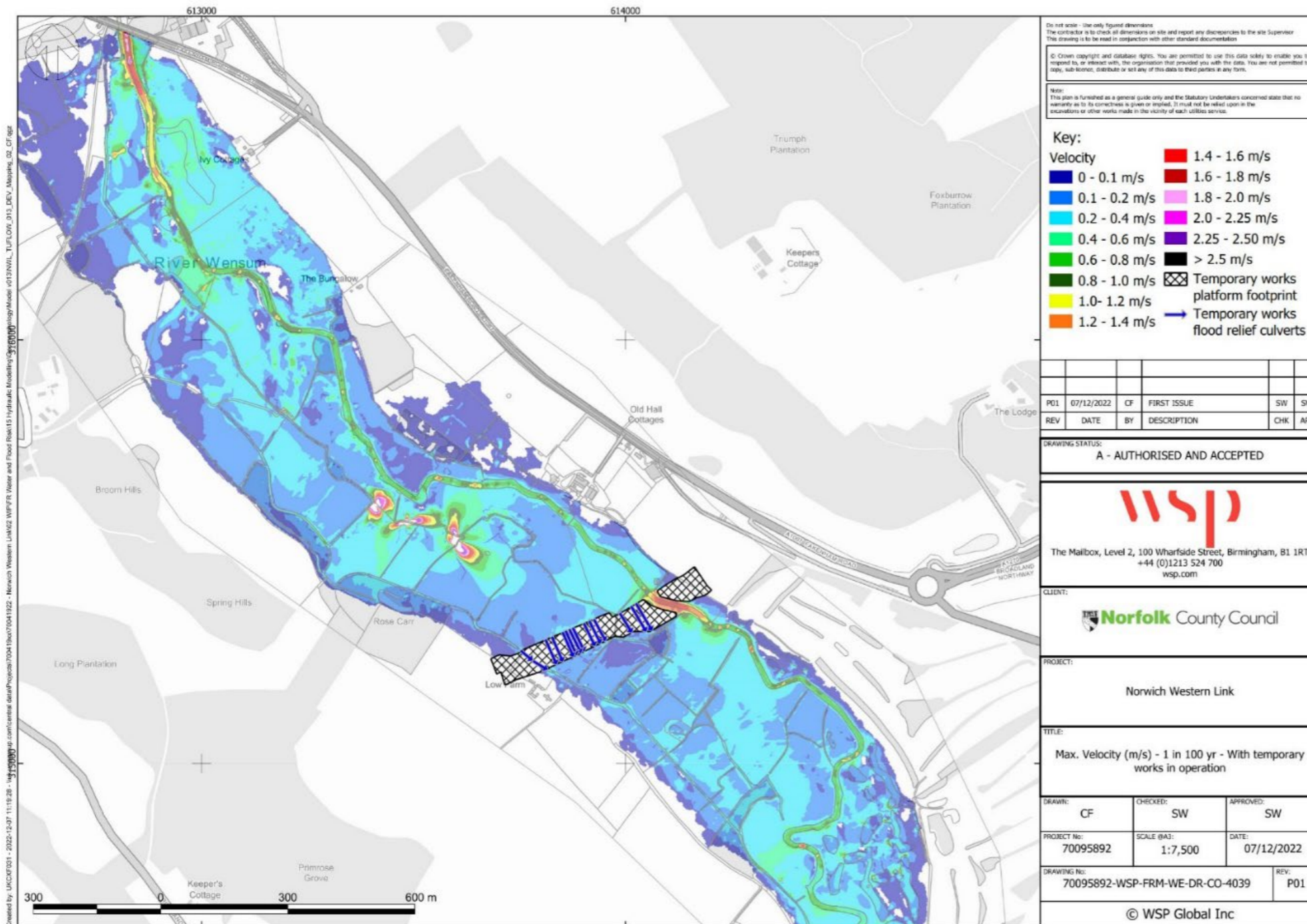


Figure 1-16 Flood map for the 1 in 100yr + 20% Climate Change with temporary works in operation. Indicating the velocity ranging from 0 to >2.5m/s.

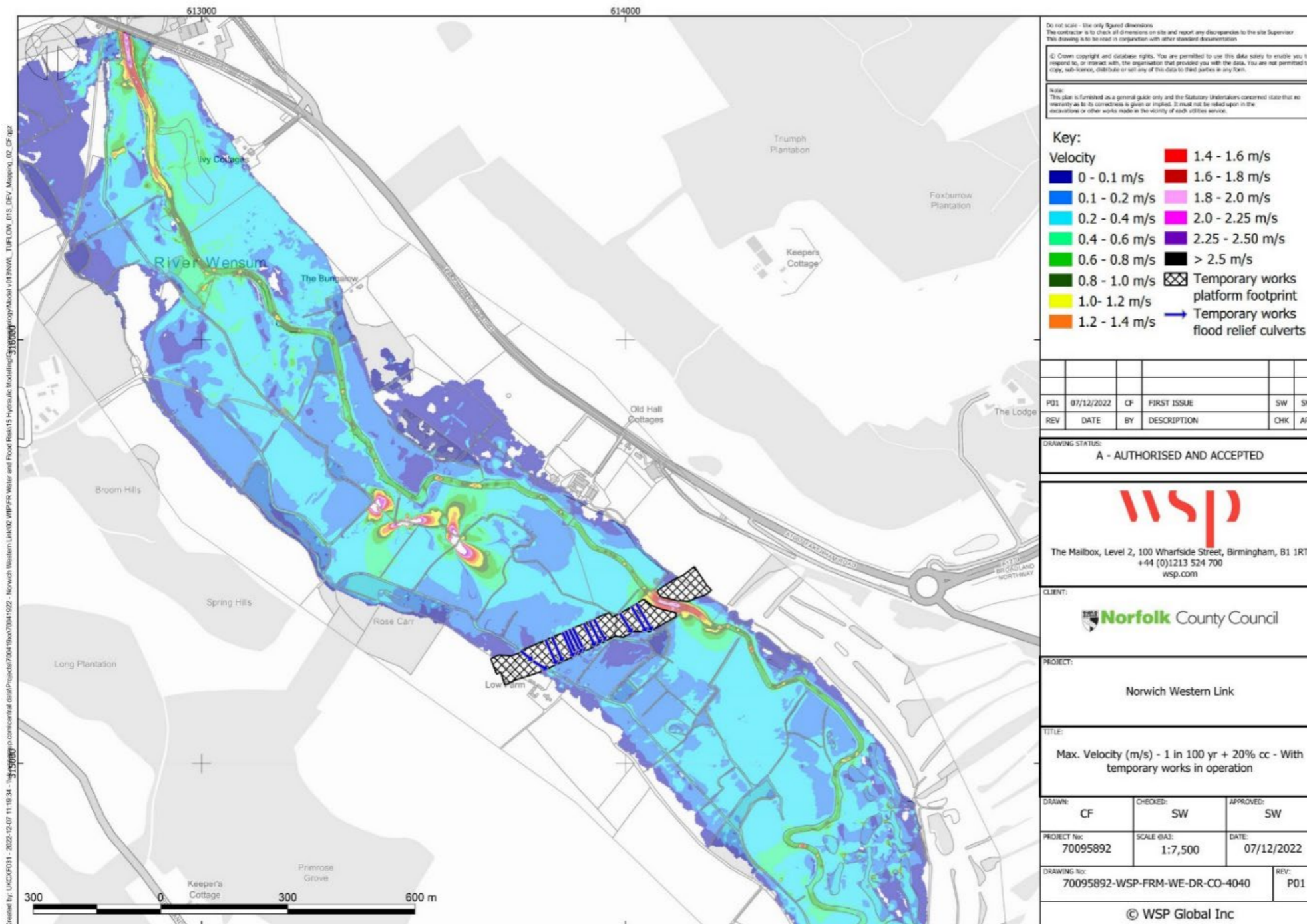


Figure 1-17 Flood map for the 1 in 2yr with temporary works in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s.

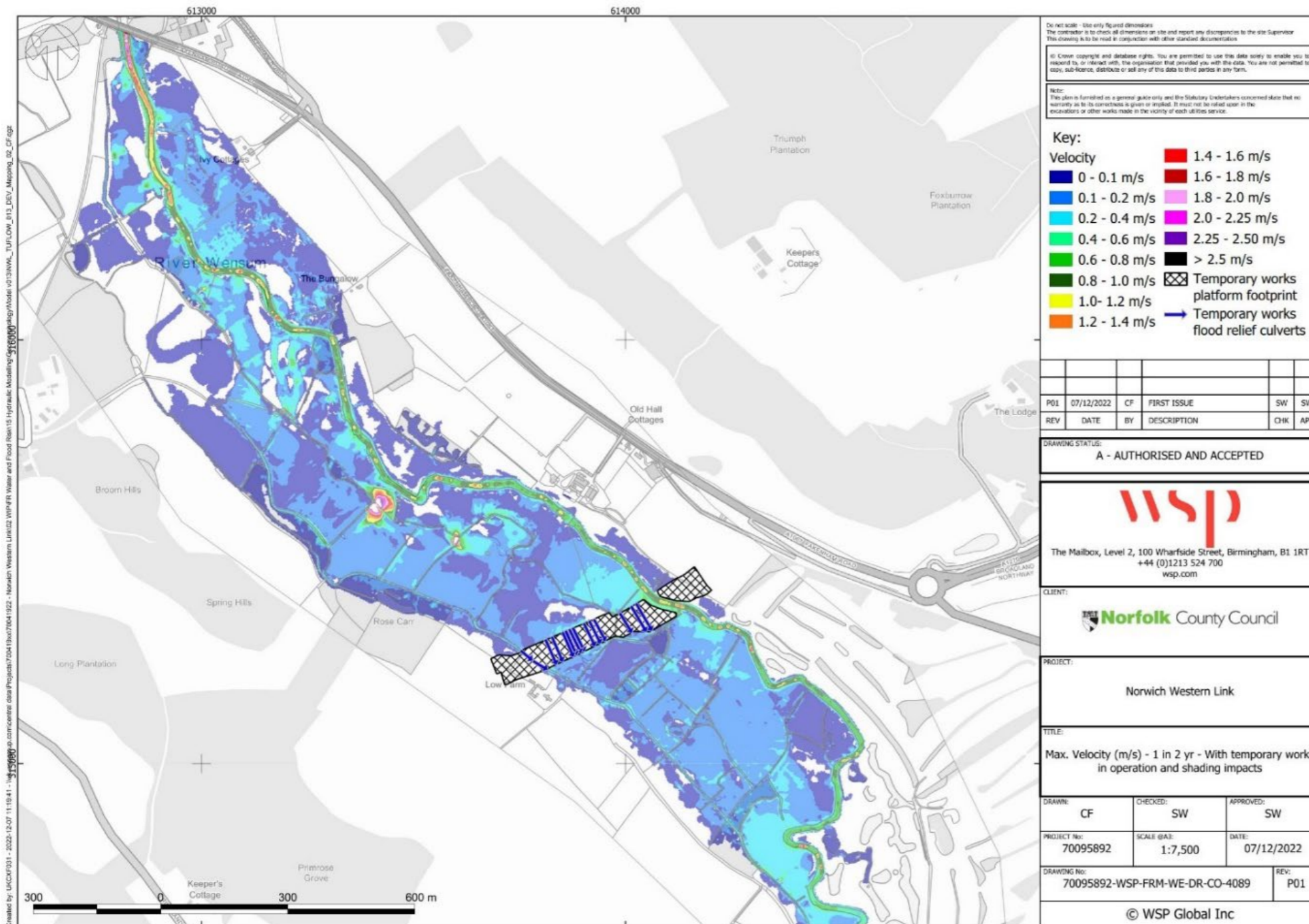


Figure 1-18 Flood map for the 1 in 20yr with temporary works in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s.

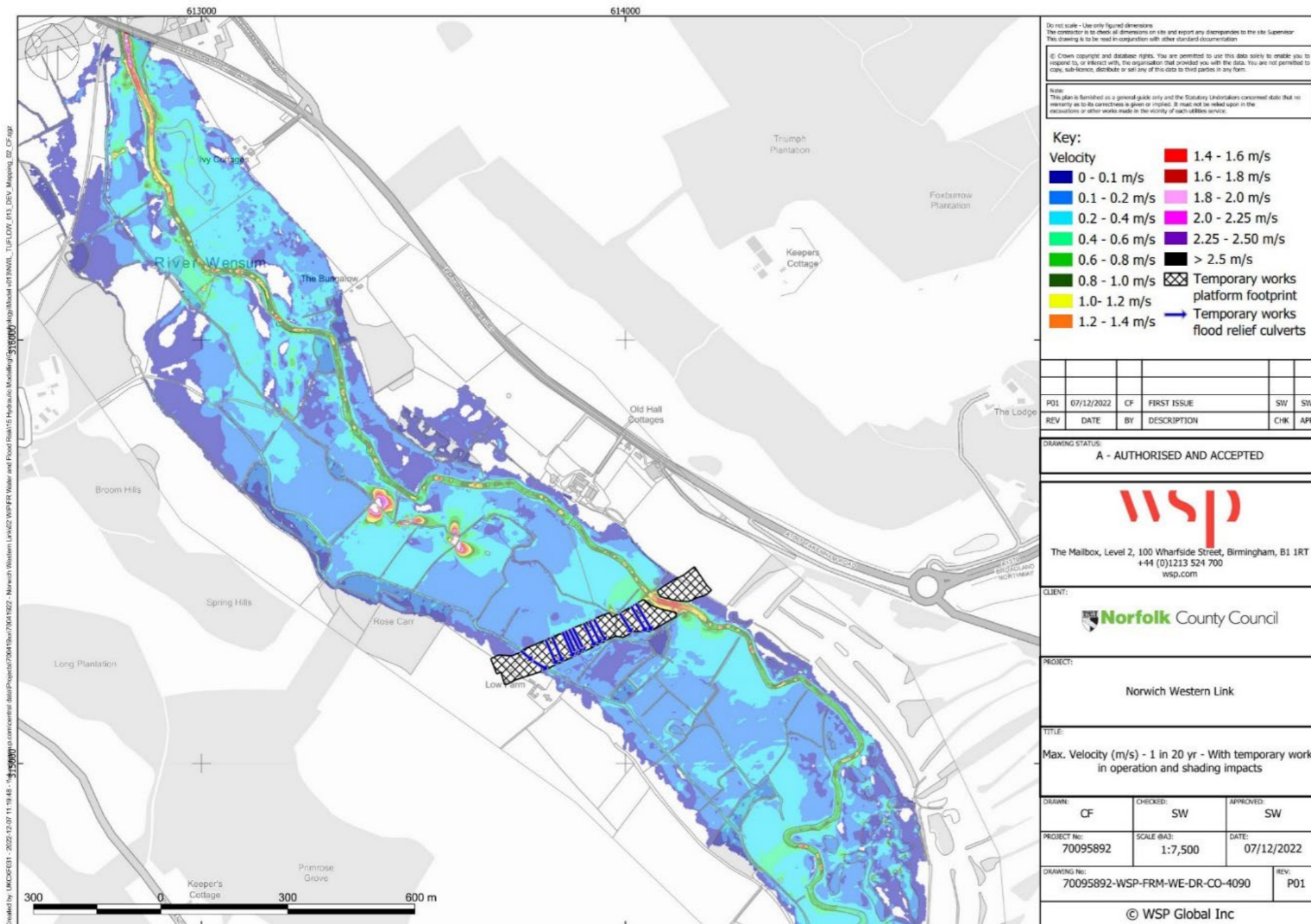


Figure 1-19 Flood map for the 1 in 100yr with temporary works in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s.

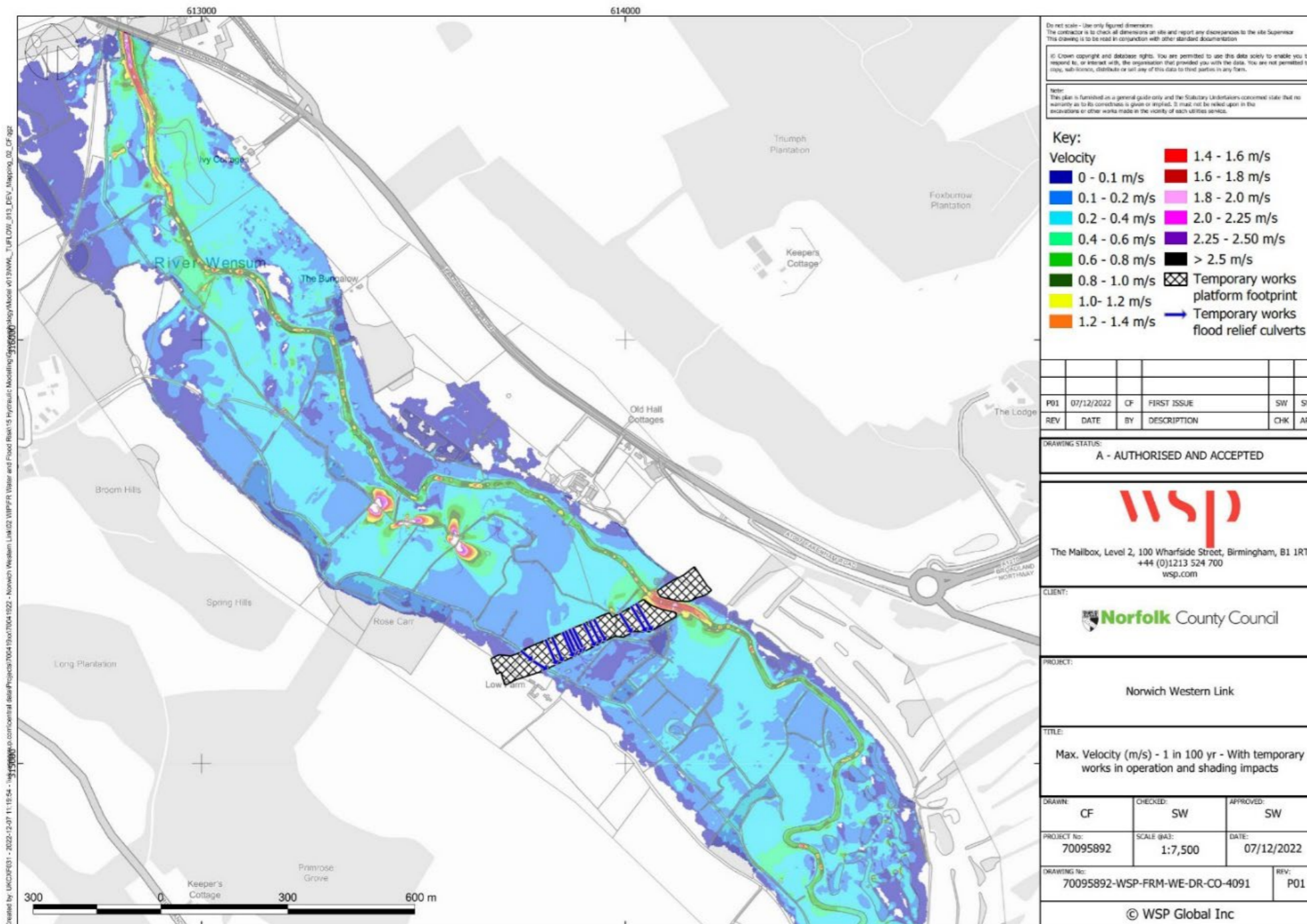


Figure 1-20 Flood map for the 1 in 100yr +20% Climate Change with temporary works in operation and shading impacts. Indicating the velocity ranging from 0 to >2.5m/s.

