

the
INSTITUTE
of
ESTUARINE
and
COASTAL
STUDIES

**Essex Coastal SSSIs:
Assessment of Changes in Extent of
Saltmarsh Over the Period 1997 to 2008**

VOLUME 2 - MAPS

Report to Natural England

Institute of Estuarine and Coastal Studies
University of Hull

8th June 2011

Author(s): S Thomson, C Reid & S Boyes

Report: ZBB745-F-2011

**Institute of Estuarine & Coastal Studies
(IECS)**

The University of Hull
Cottingham Road
Hull
HU6 7RX
UK

Tel: +44 (0)1482 464120
Fax: +44 (0)1482 464130

E-mail: iecs@hull.ac.uk

Web site: <http://www.hull.ac.uk/iecs>



THE UNIVERSITY OF HULL

Institute of Estuarine and Coastal Studies (IECS)

Natural England

**Essex Coastal SSSIs –
Assessment of Changes in
Extent of Saltmarsh Over the
Period 1997 to 2007**

VOLUME 2 - MAPS

08 June 2011

Reference No: ZBB745-D-2010

For and on behalf of the Institute of
Estuarine and Coastal Studies

Approved by: _____

Signed: _____

Position: _____

Date: _____

This report has been prepared by the Institute of Estuarine and Coastal Studies, with all reasonable care, skill and attention to detail as set within the terms of the Contract with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This is a confidential report to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such parties rely on the report at their own risk.

Printed on 100% recycled paper



TABLE OF CONTENTS

1. MAPS	1
2. BENFLEET AND SOUTHEND MARSHES	2
3 BLACKWATER ESTUARY.....	4
4. COLNE ESTUARY.....	32
5. CROUCH & ROACH.....	43
6. DENGIE.....	75
7. FOULNESS	80
7. HAMFORD	93

1. MAPS

The following section shows the saltmarsh change within each of the management units chosen for assessment by Natural England within the seven coastal SSSIs.

The A4 maps detail the extent of saltmarsh losses and gains within each Management Unit for each SSSI.

Losses are shown in red and gains in green, with stable saltmarsh shown in yellow.

LEGEND



Eroded Saltmarsh



Accreted Saltmarsh

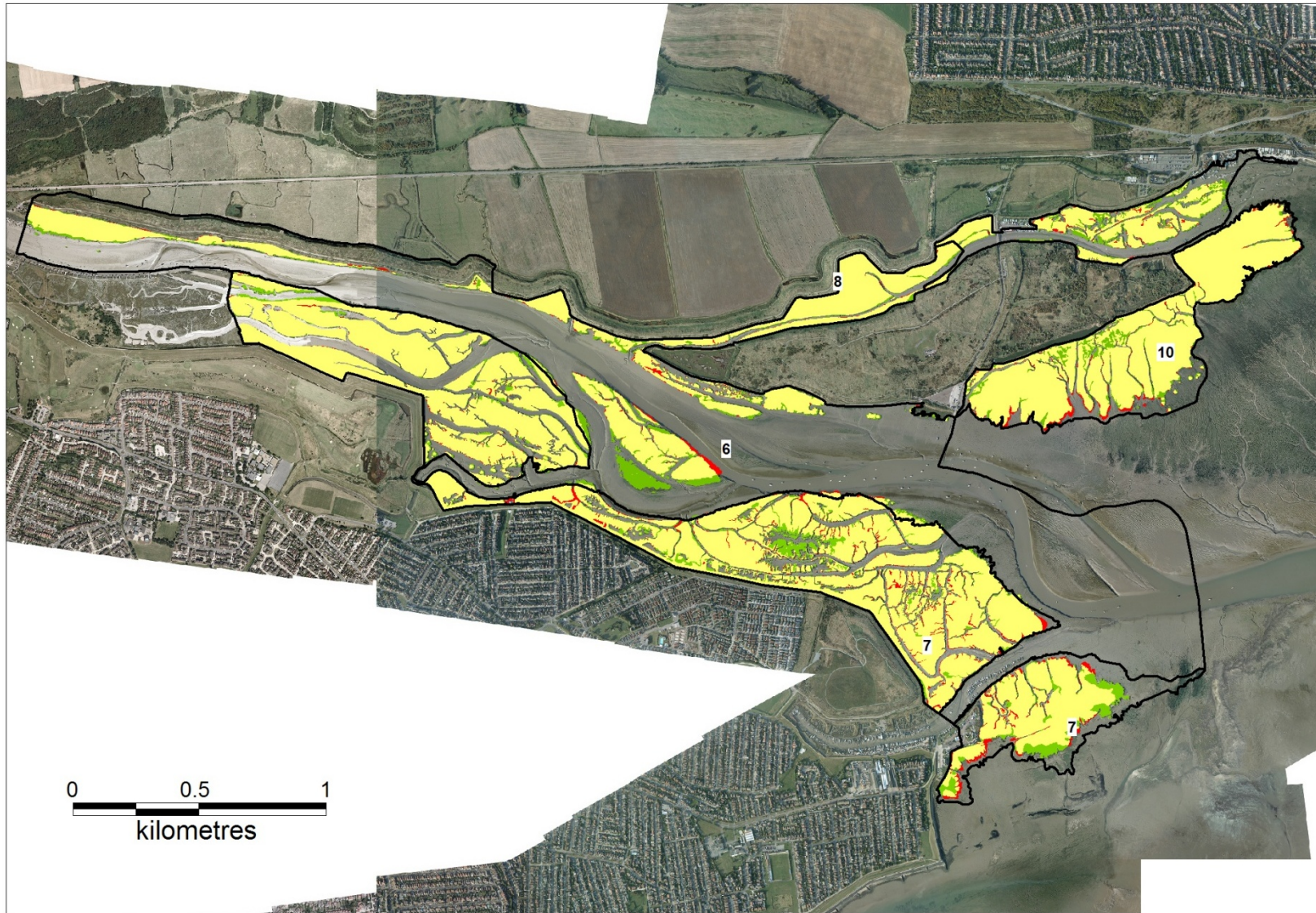


Stable Saltmarsh

2. BENFLEET AND SOUTHEND MARSHES



Map 1. Benfleet and Southend Marshes SSSI. Location of Management Units.



Map 2. Units 6, 7, 8 & 10 Benfleet and Southend Marshes SSSI.

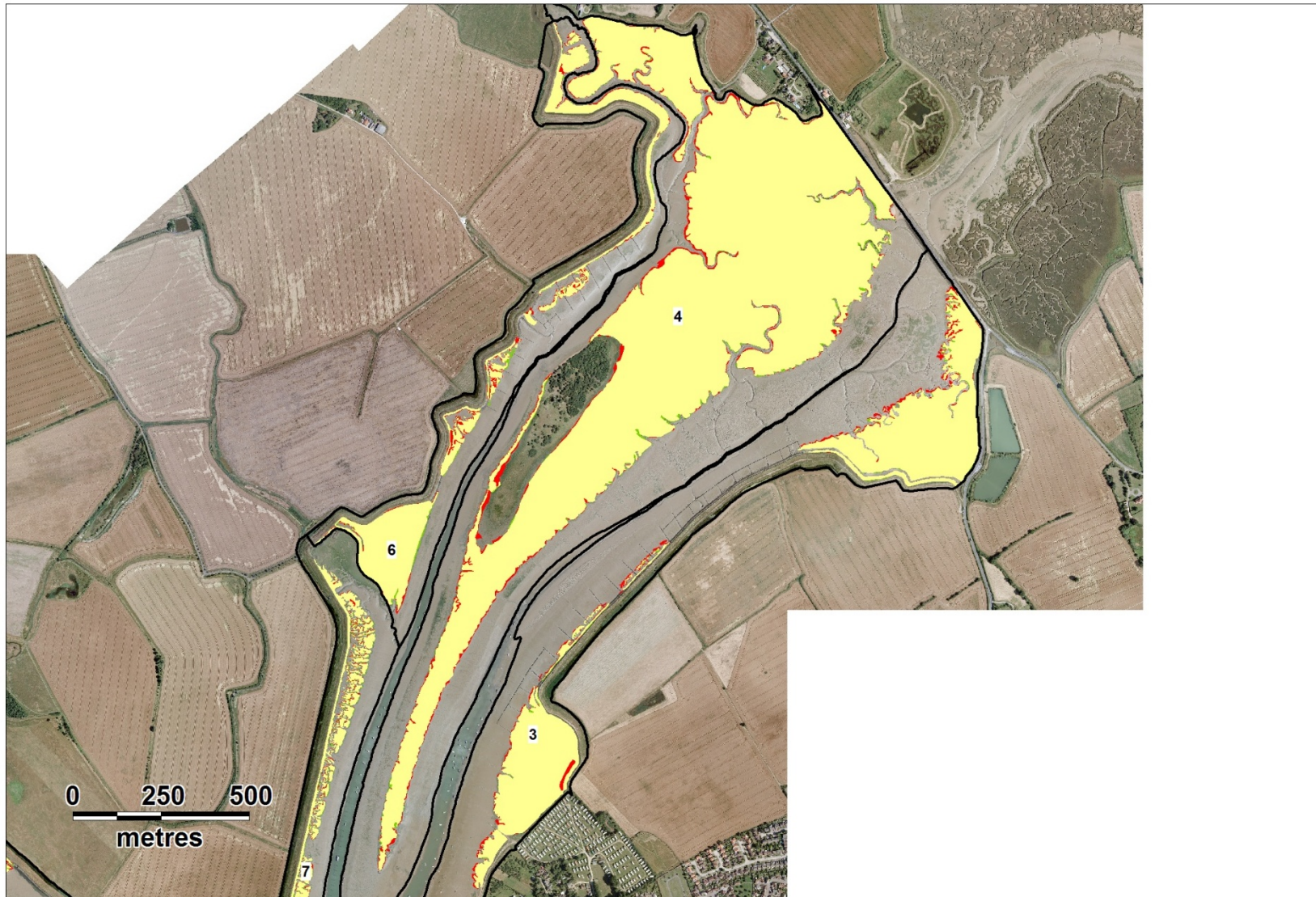
3 BLACKWATER ESTUARY



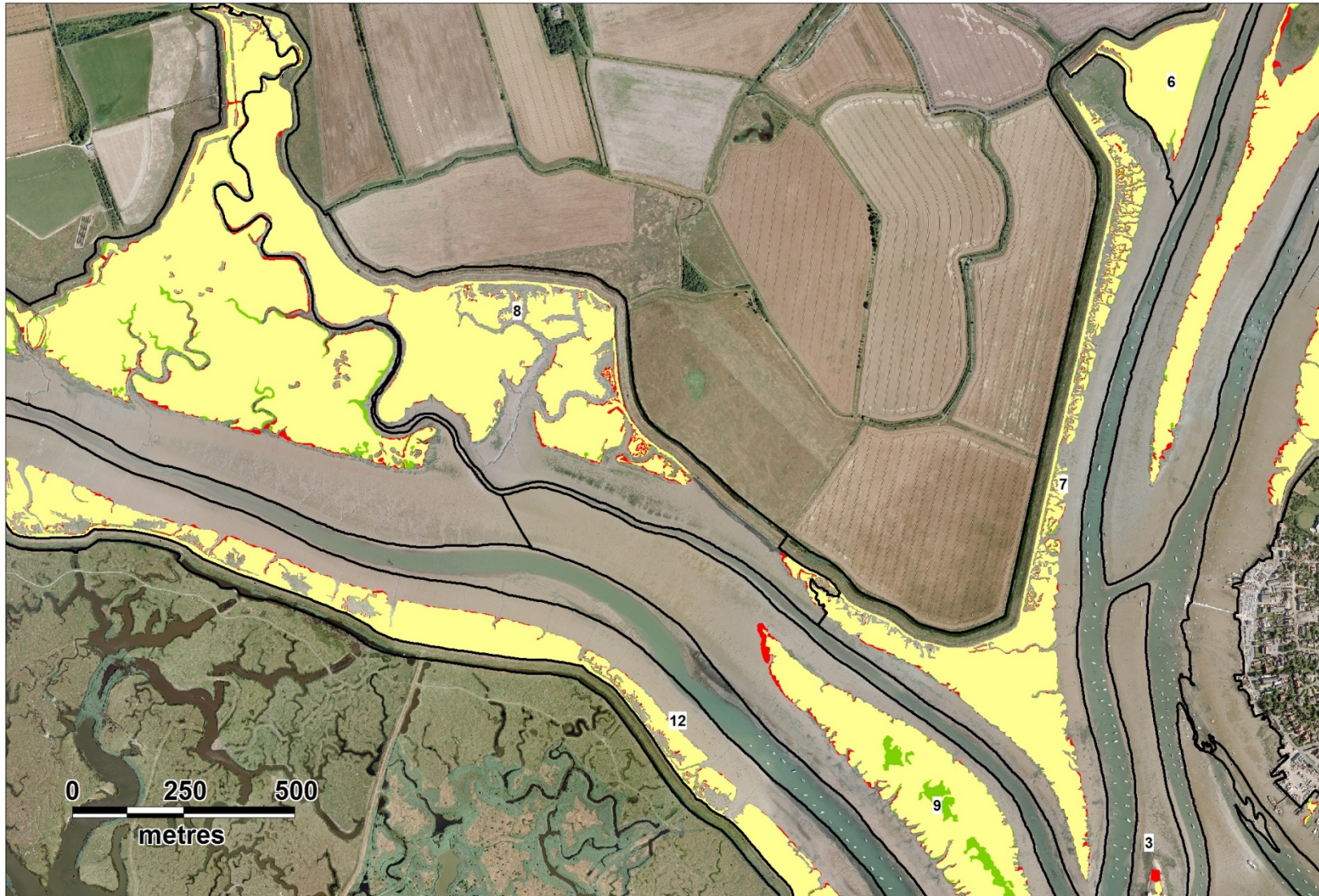
Map 3. Blackwater Estuary SSSI. Location of Management Units.



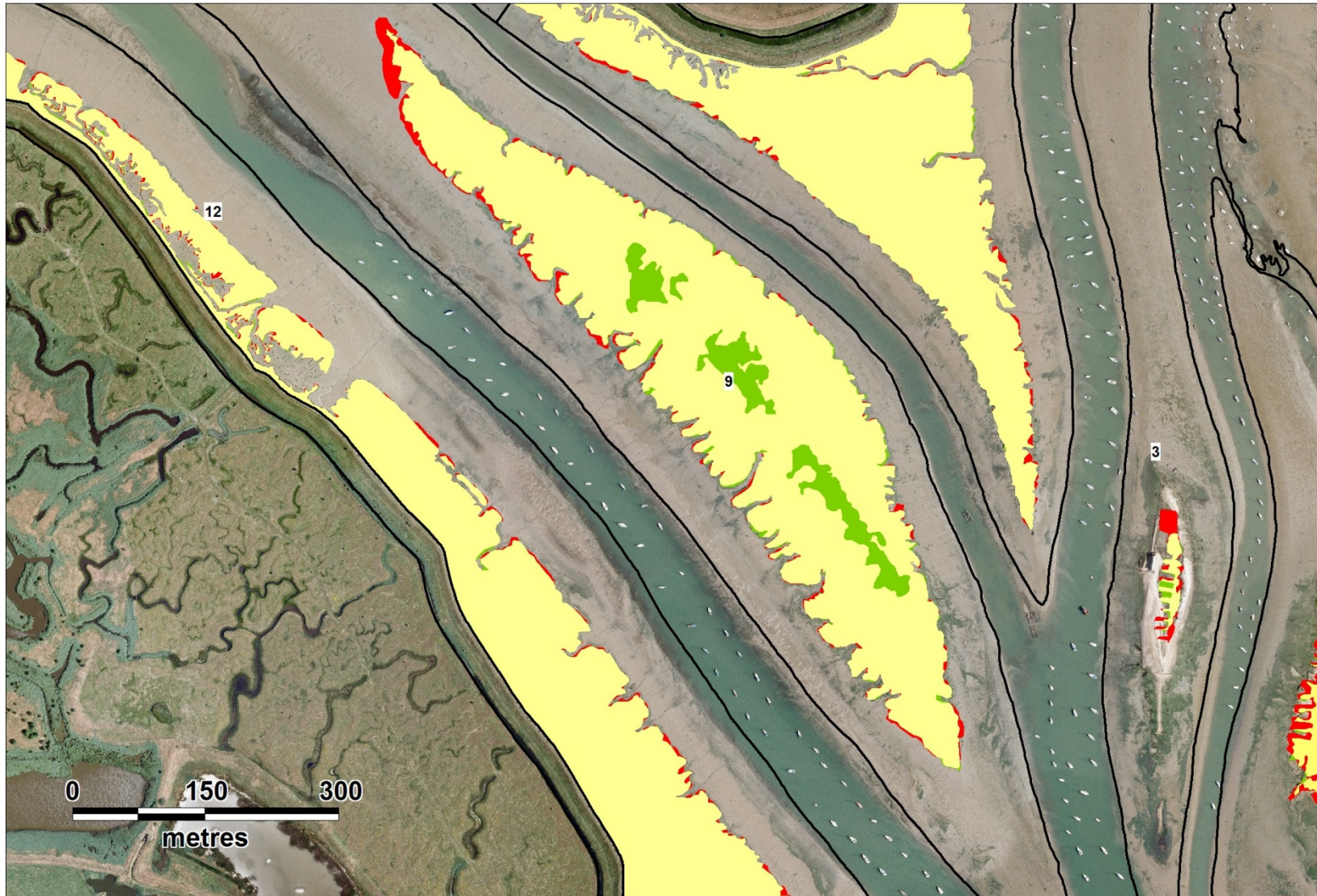
Map 4. Units 1, 2 & 3 (South) Blackwater Estuary SSSI.



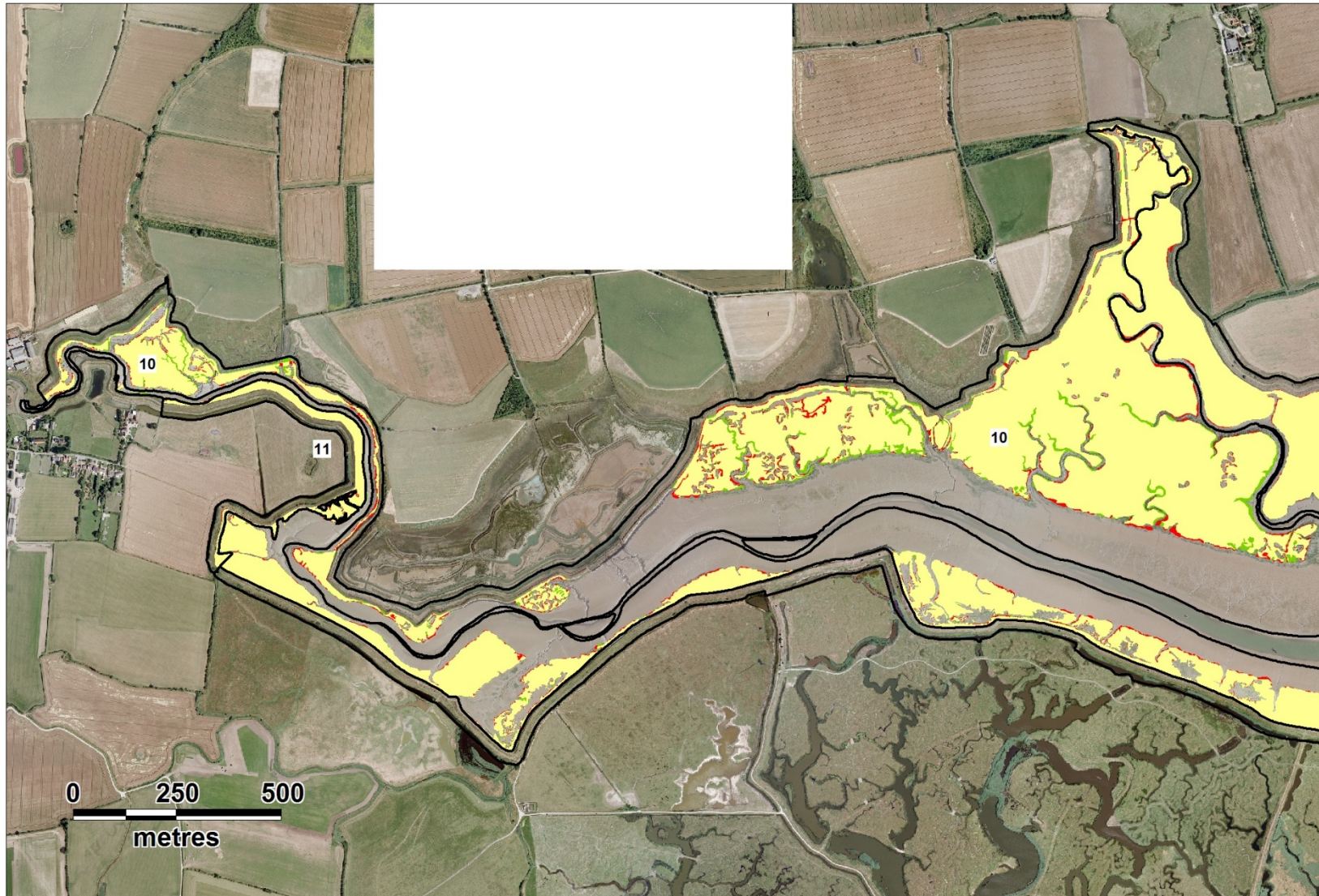
Map 5. Units 3 (North), 4, 5 & 6 Blackwater Estuary SSSI.



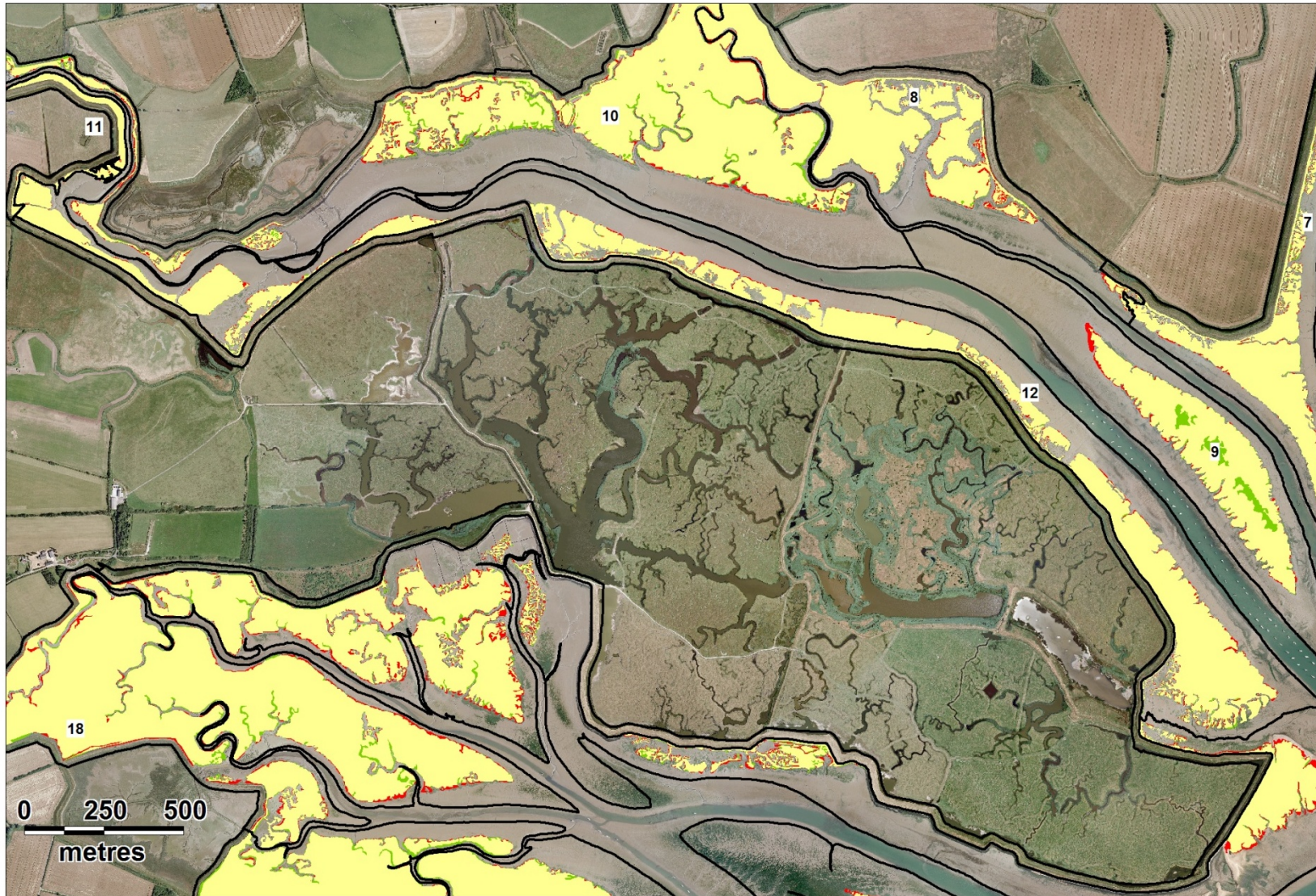
Map 6. Units 7 & 8 Blackwater Estuary SSSI.



Map 7. Unit 9 Blackwater Estuary SSSI.



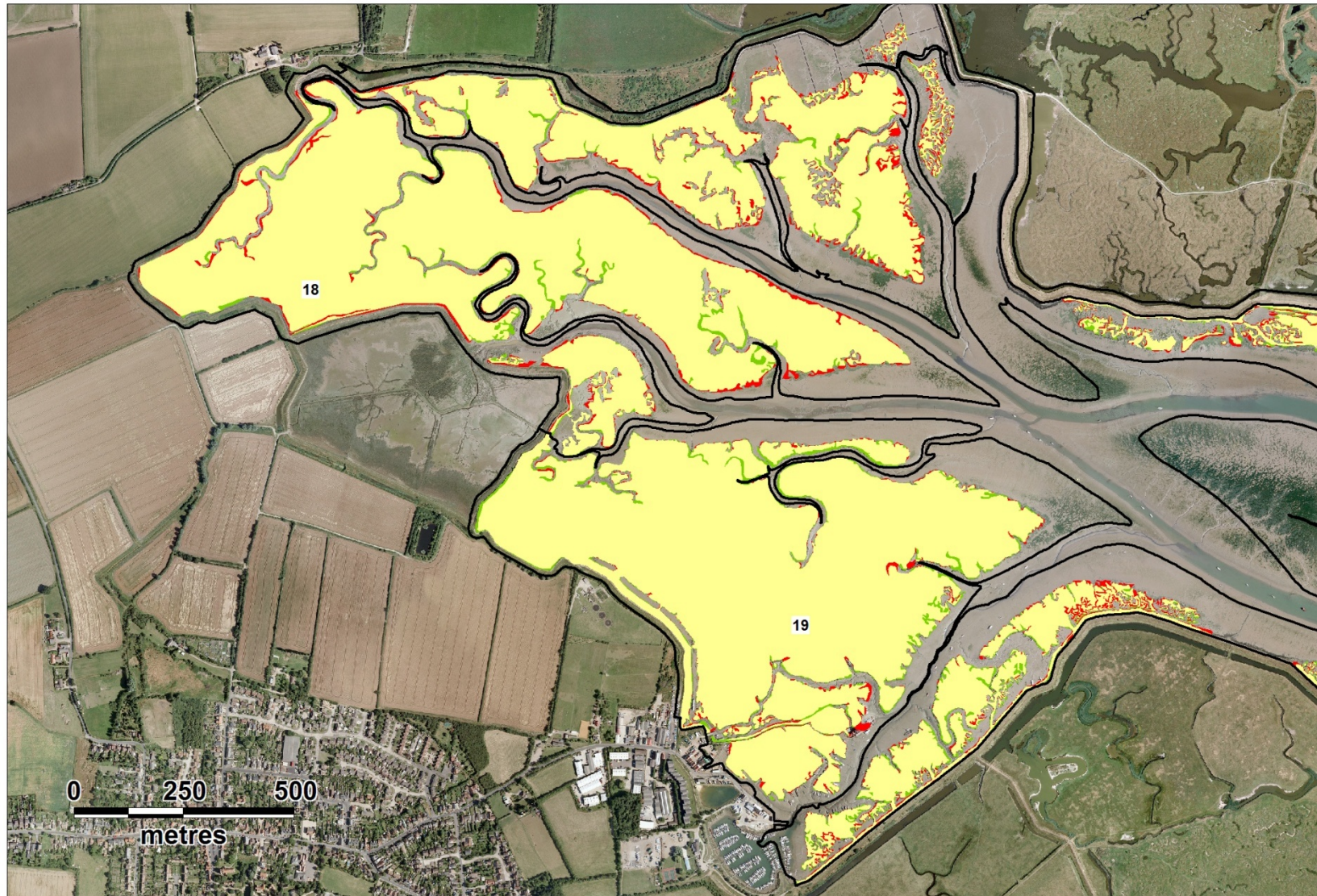
Map 8. Units 10 & 11 Blackwater Estuary SSSI.



Map 9. Unit 12 Blackwater Estuary SSSI.



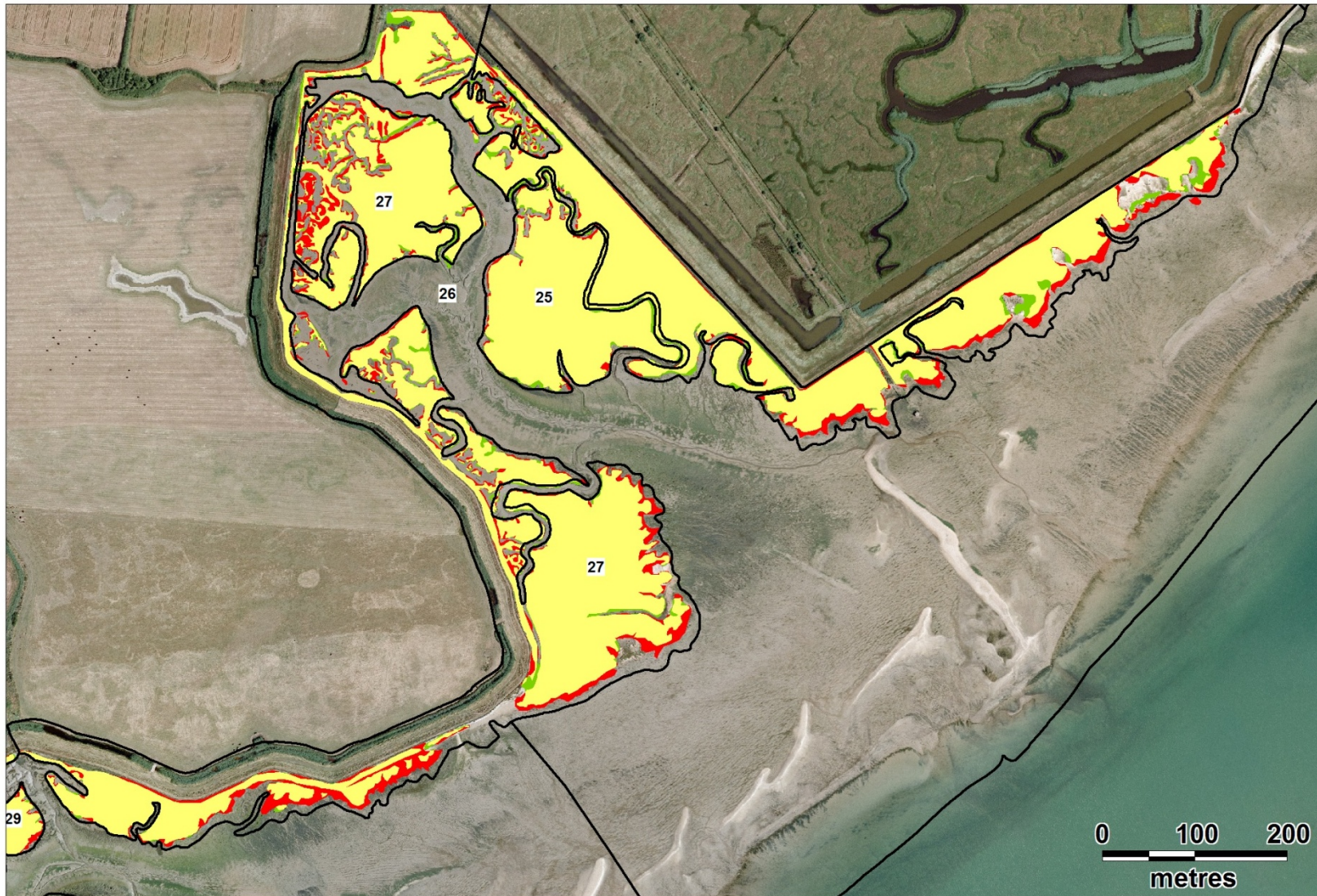
Map 10. Unit s 13 & 18 (East) Blackwater Estuary SSSI.



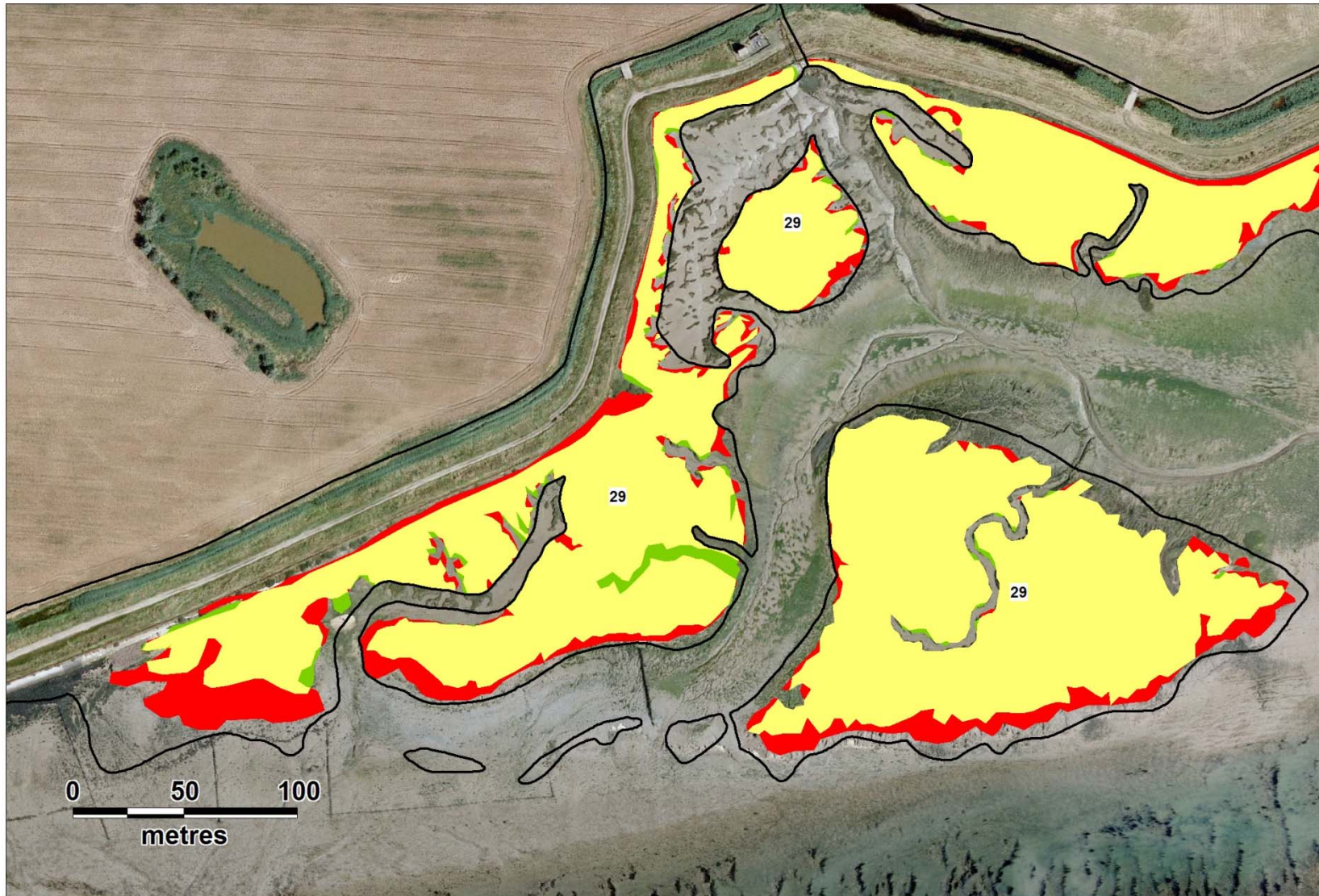
Map 11. Units 18 (West) & 19 Blackwater Estuary SSSI.



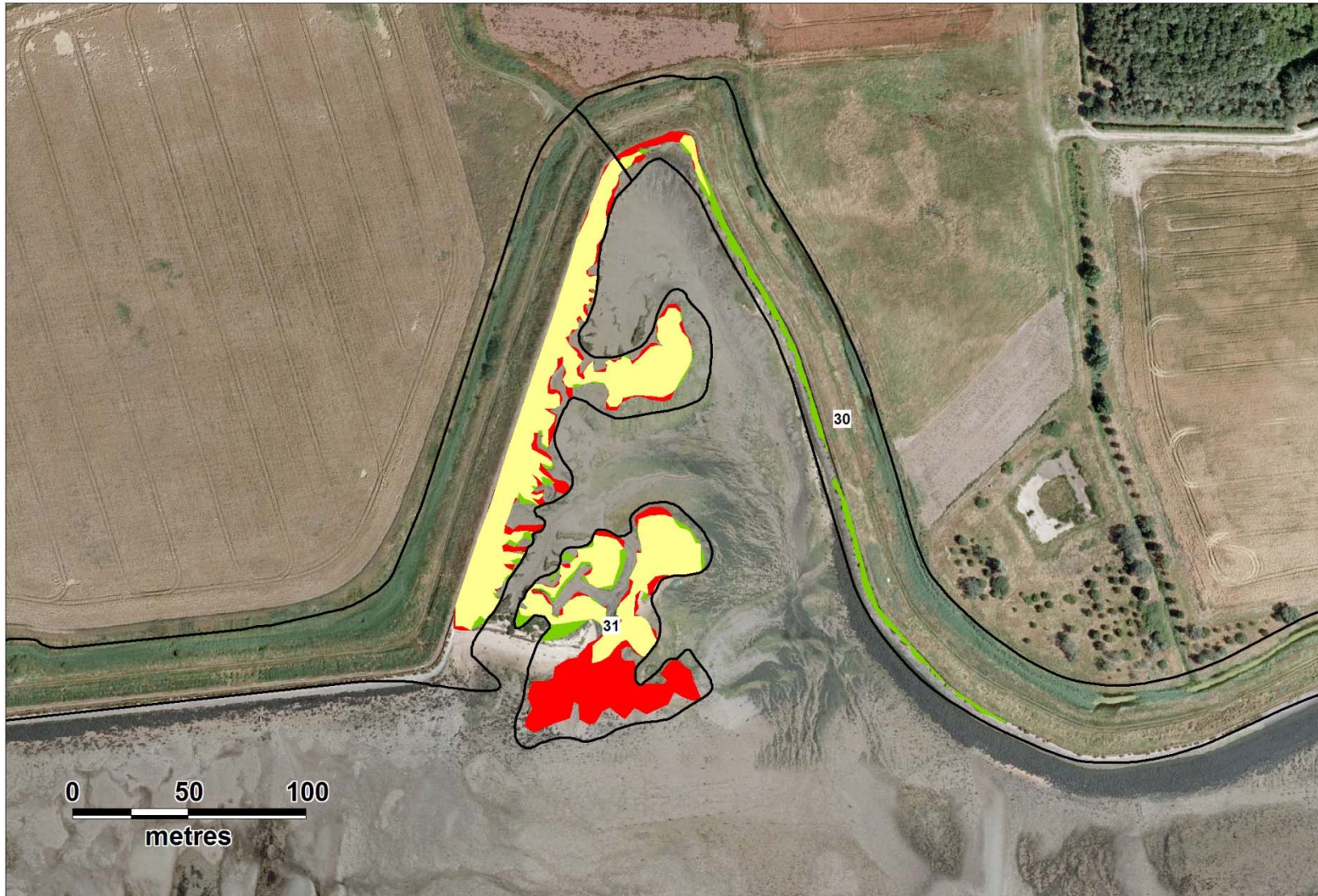
Map 12. Unit 20 Blackwater Estuary SSSI.



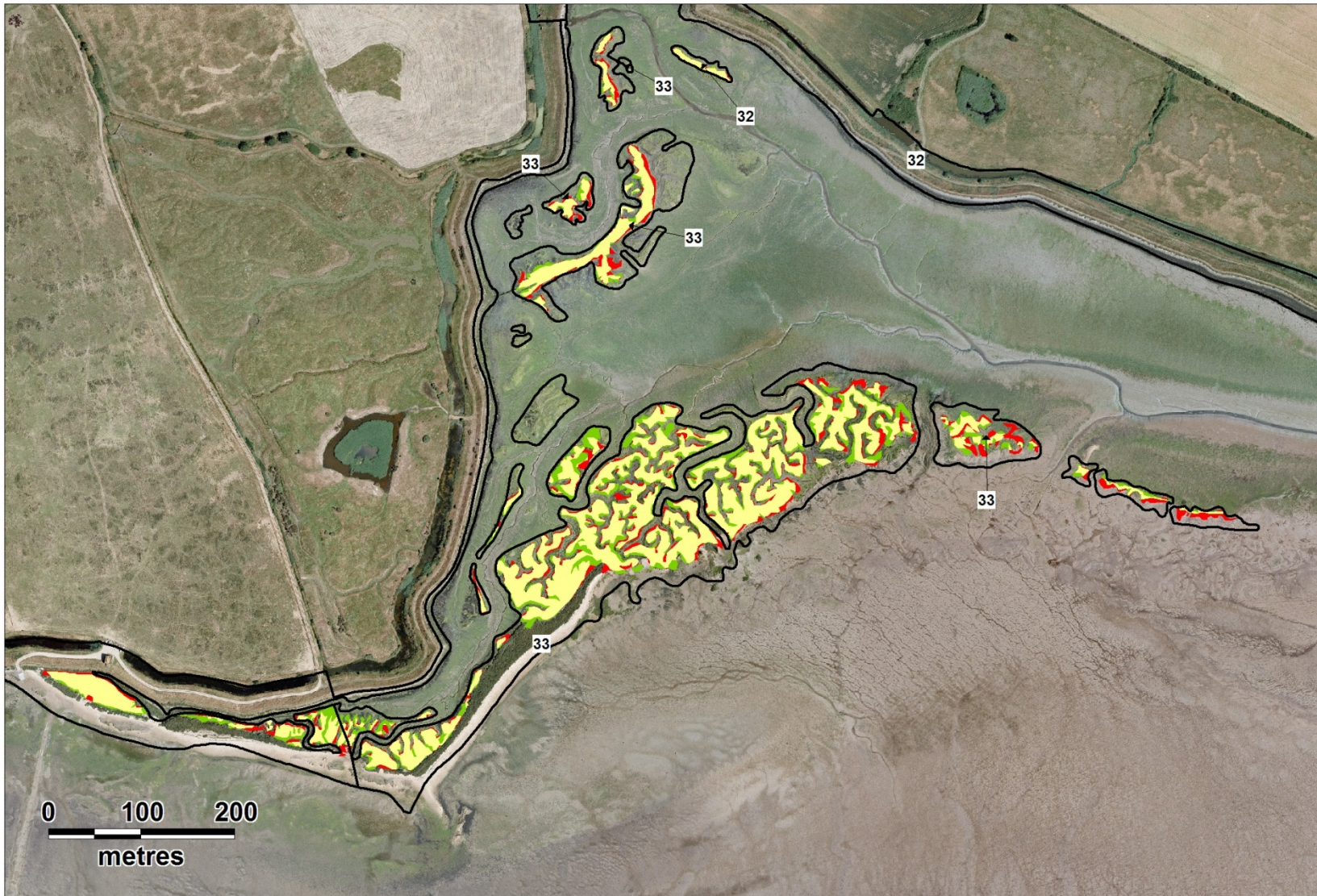
Map 13. Units 25, 26 & 27 Blackwater Estuary SSSI.



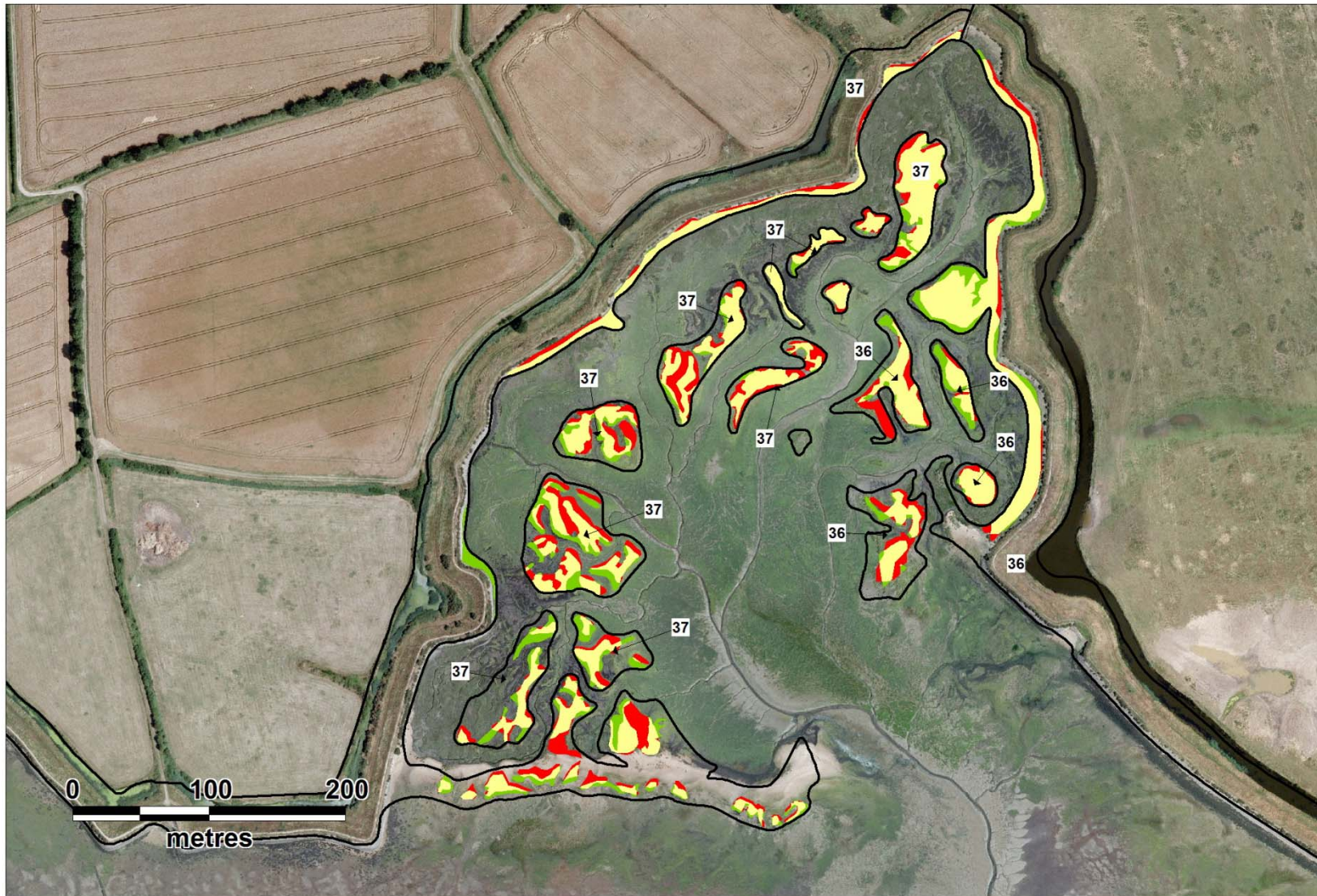
Map 14. Unit 29 Blackwater Estuary SSSI.



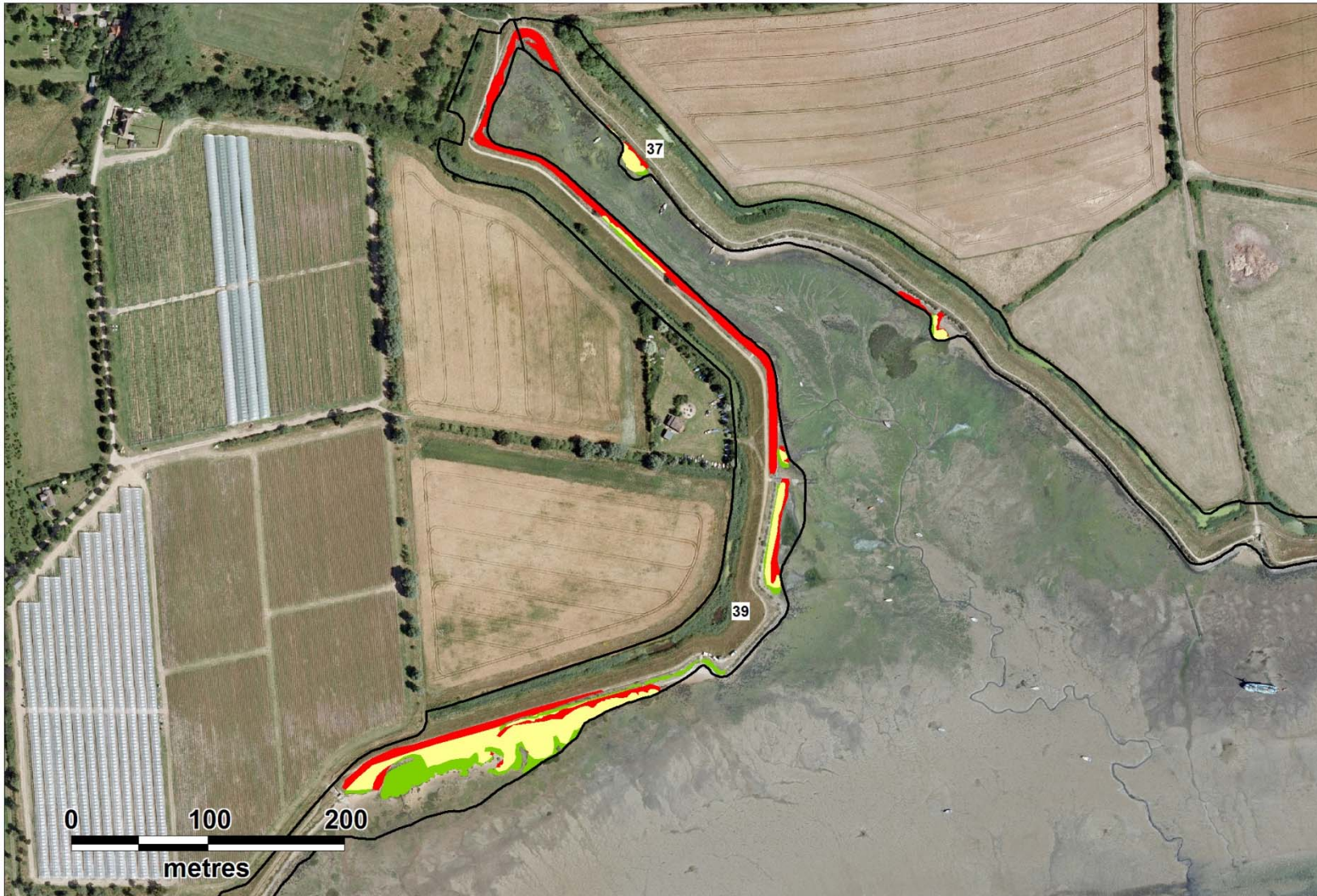
Map 15. Units 30 & 31(East) Blackwater Estuary SSSI.



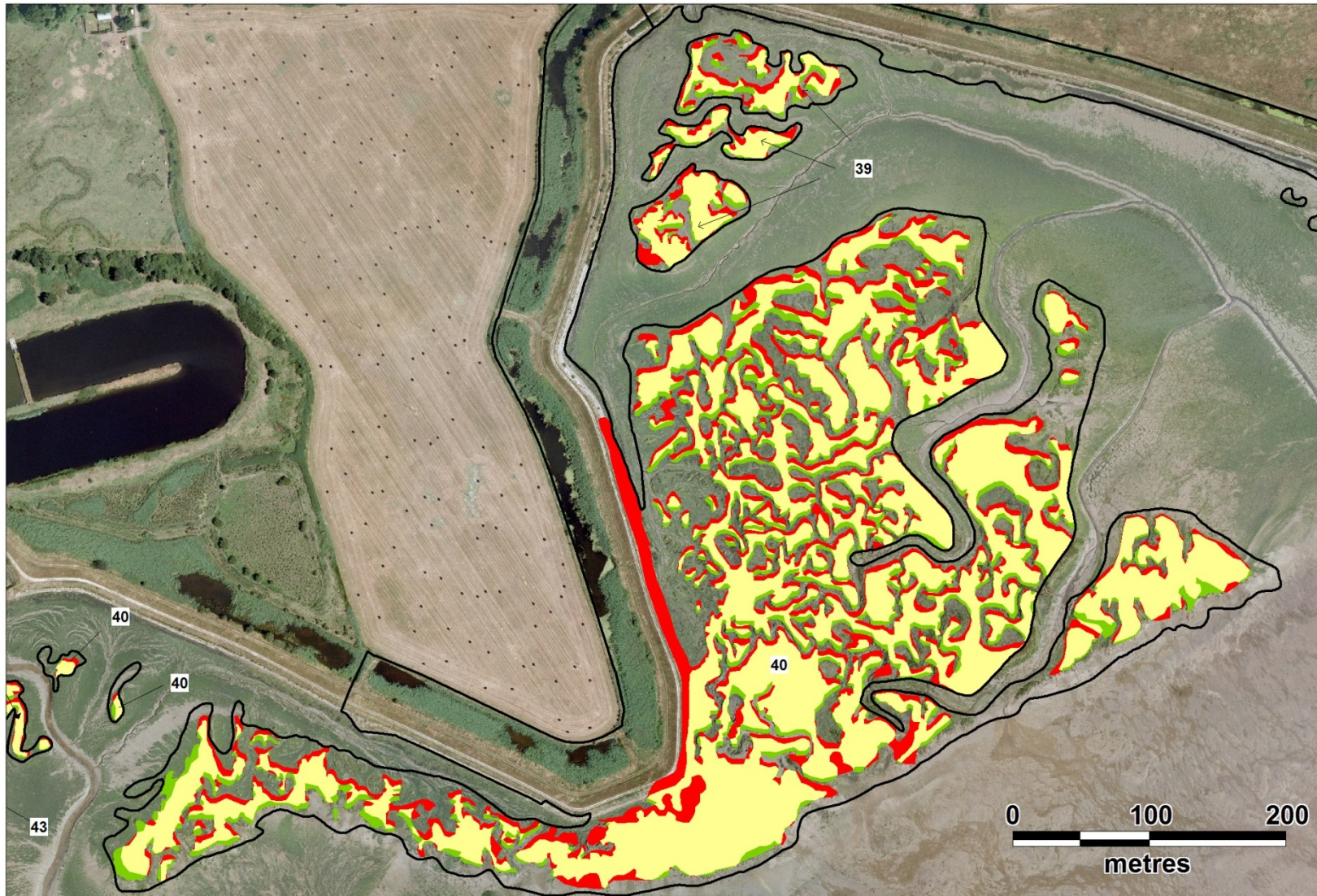
Map 16. Units 32 (West), 33 & 36 (East) Blackwater Estuary SSSI.



Map 17. Unit 36 (West) & 37 (East) Blackwater Estuary SSSI.



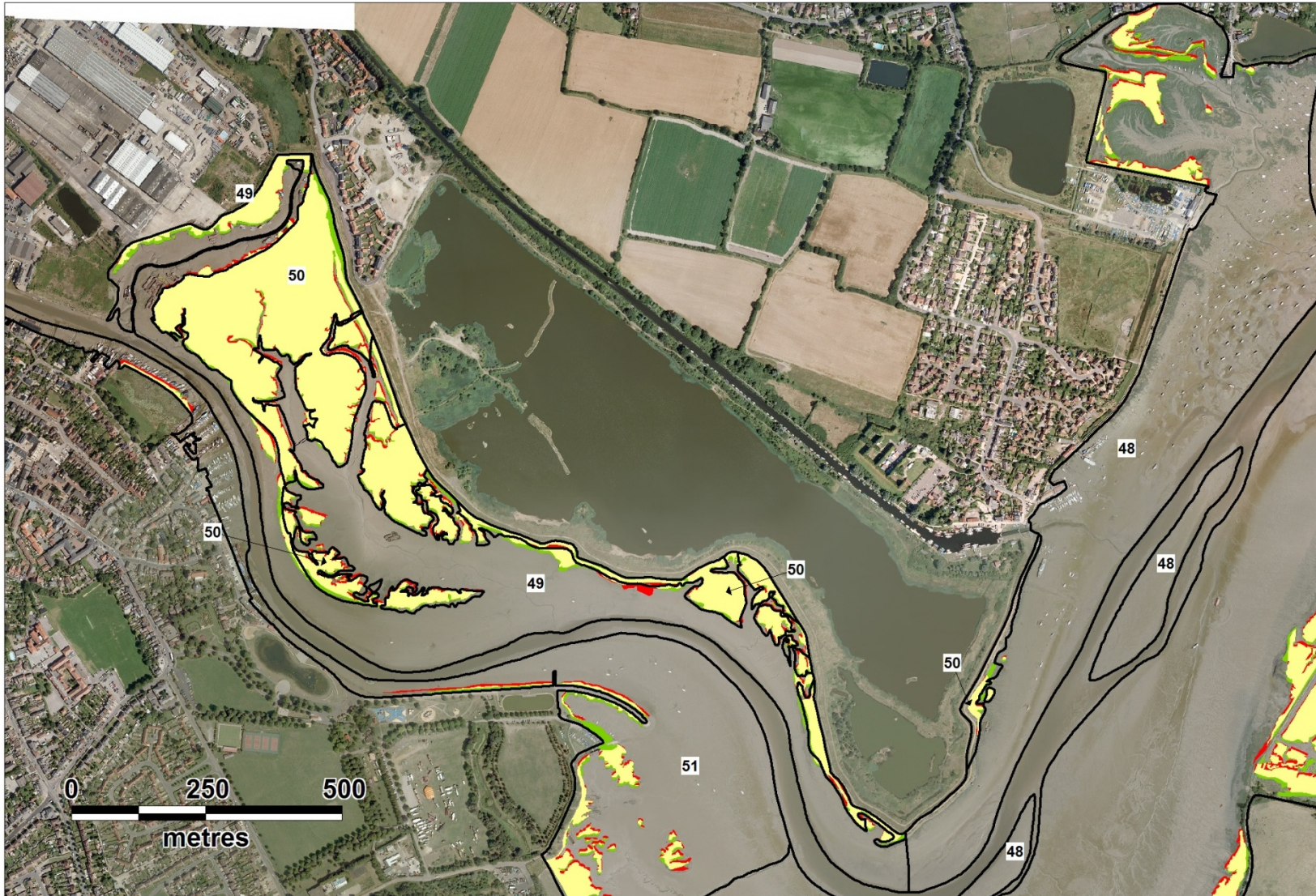
Map 18. Unit 37 (West) & 39 (East) Blackwater Estuary SSSI.



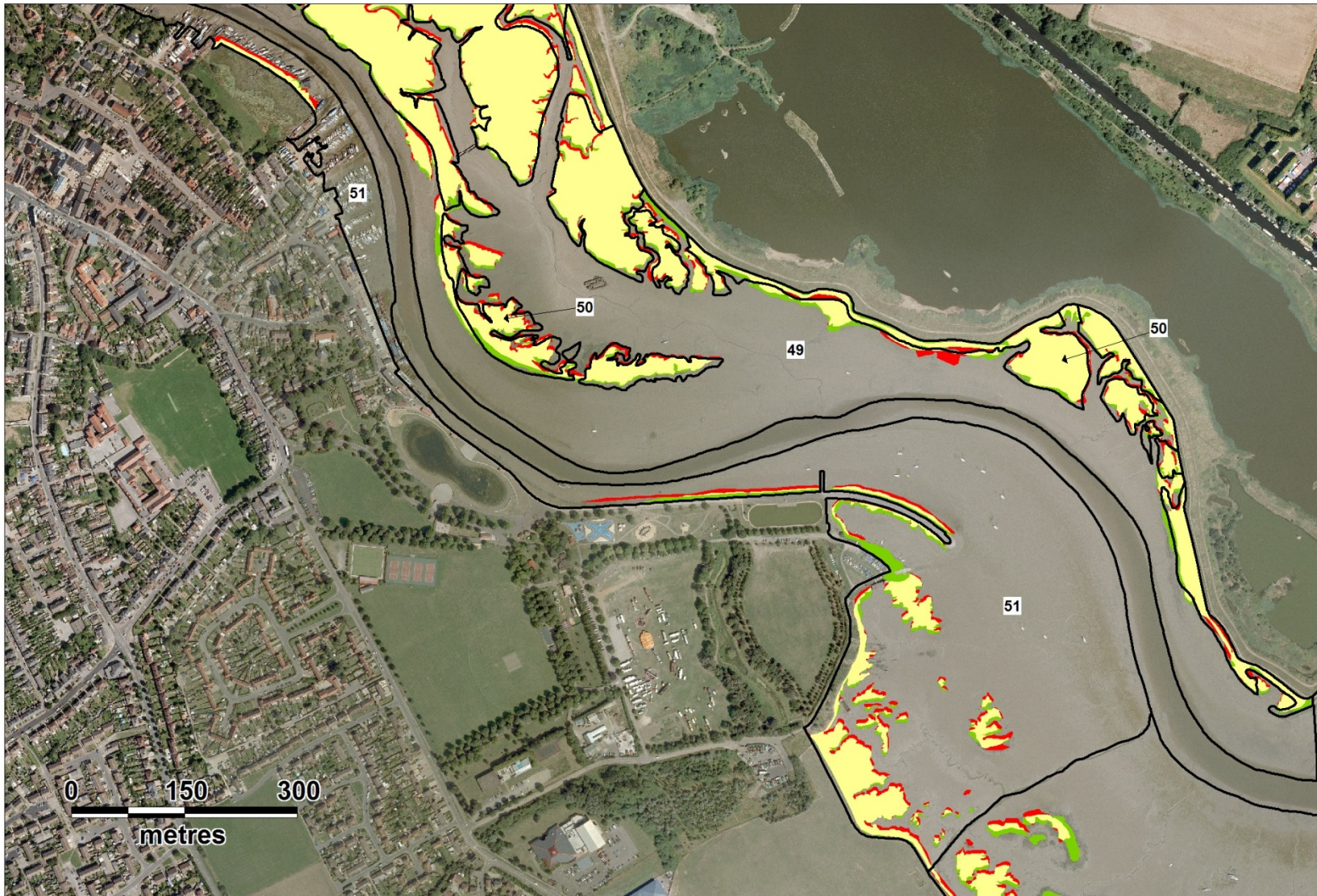
Map 19. Units 39 (West) & 40 Blackwater Estuary SSSI.



Map 20. Units 43, 44 & 45 Blackwater Estuary SSSI.



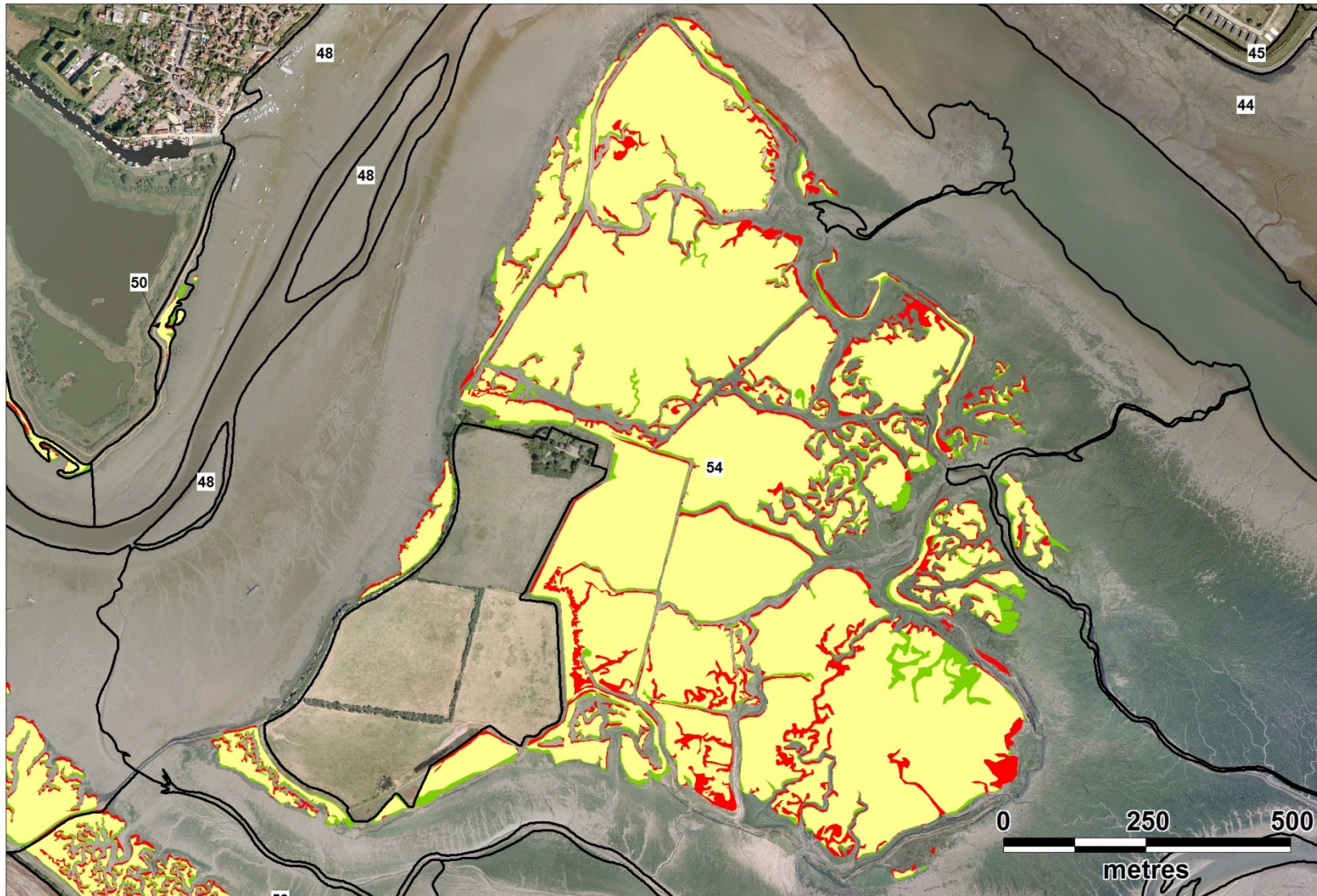
Map 21. Units 48, 49 & 50 Blackwater Estuary SSSI.



Map 22. Unit 51 Blackwater Estuary SSSI.



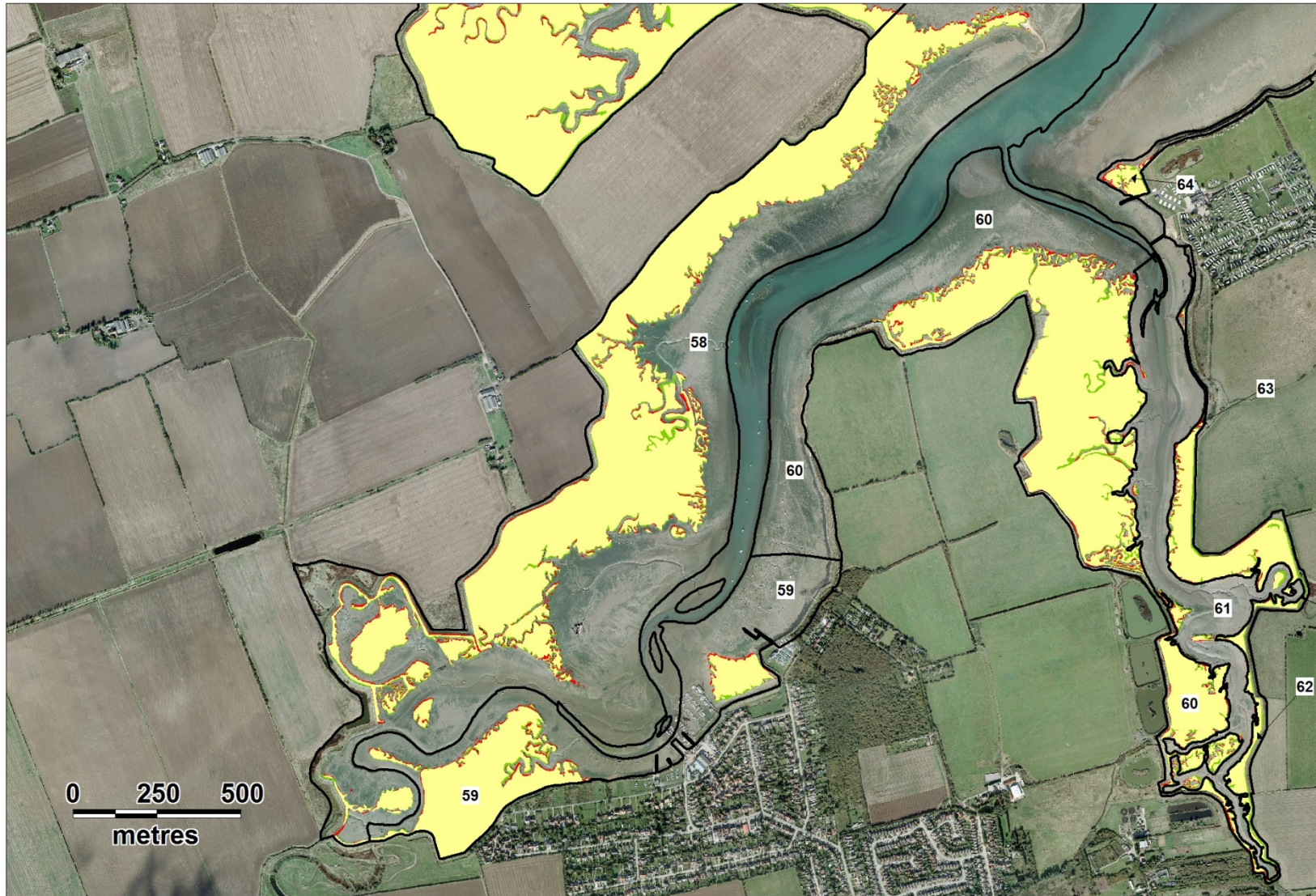
Map 23. Units 52, 53 & 55 Blackwater Estuary SSSI.



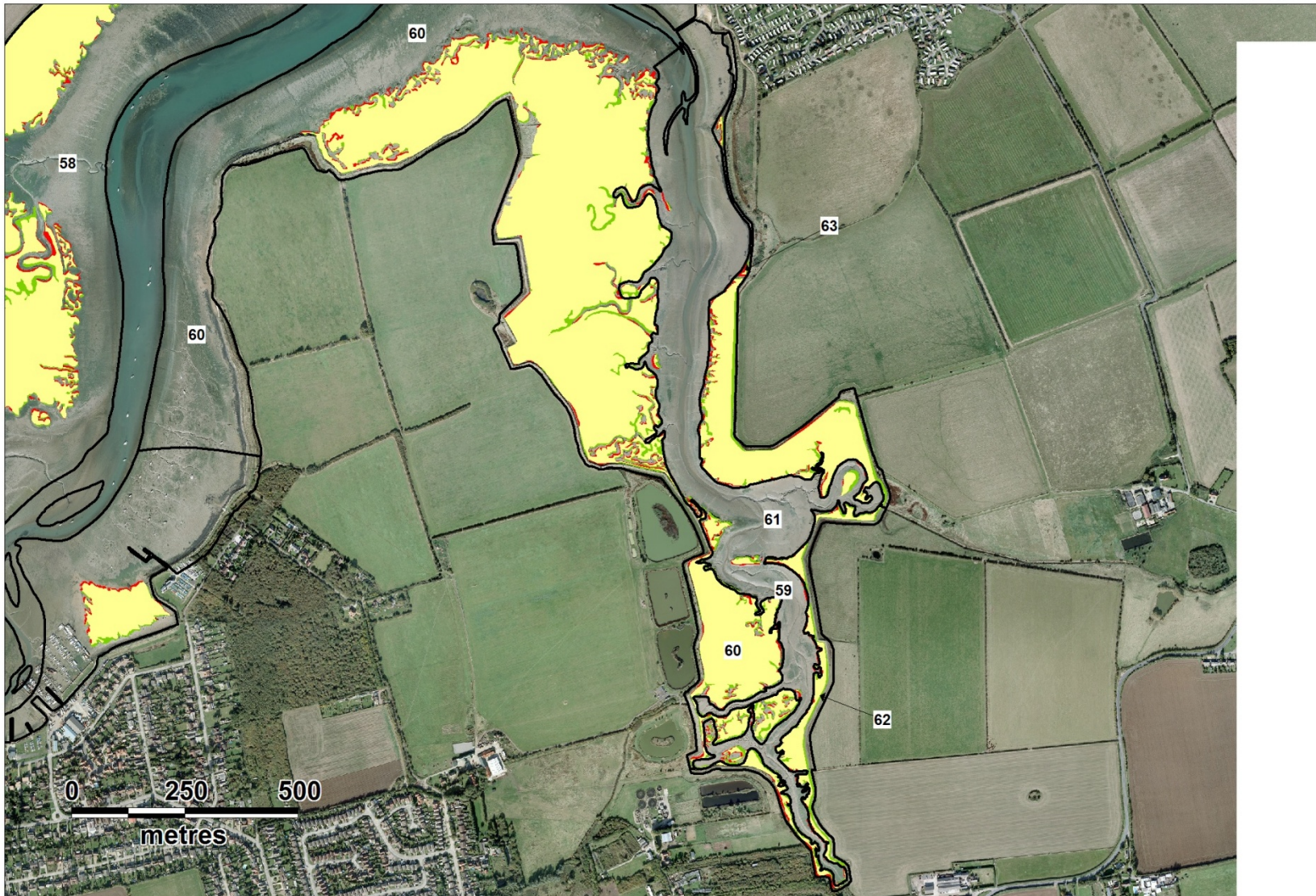
Map 24. Unit 54 Blackwater Estuary SSSI.



Map 25. Units 56 & 57 Blackwater Estuary SSSI.



Map 26. Units 58 & 59 Blackwater Estuary SSSI.



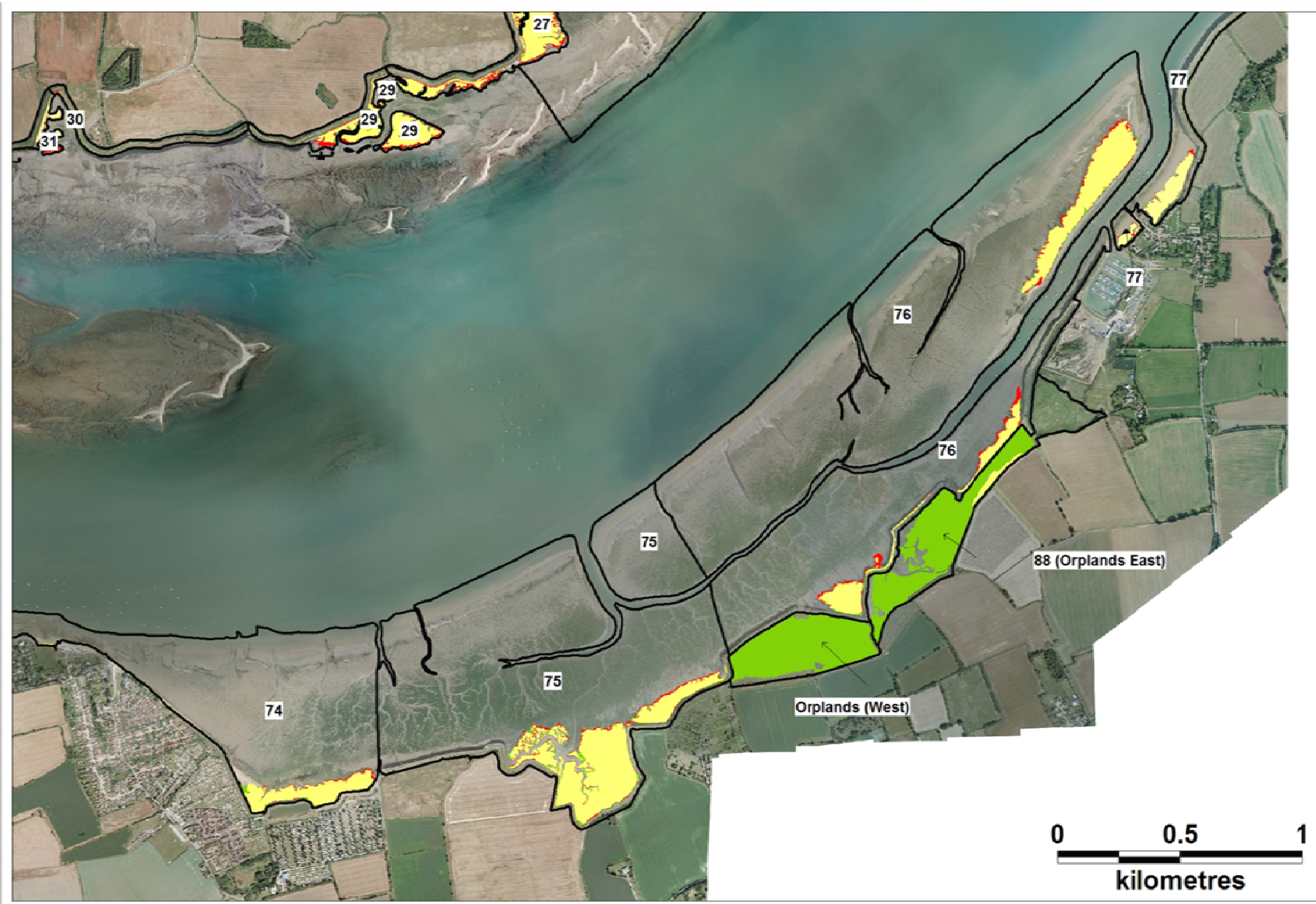
Map 27. Units 60 - 63 Blackwater Estuary SSSI.



Map 28. Units 64, 65, 67, 68 & 69 Blackwater Estuary SSSI.

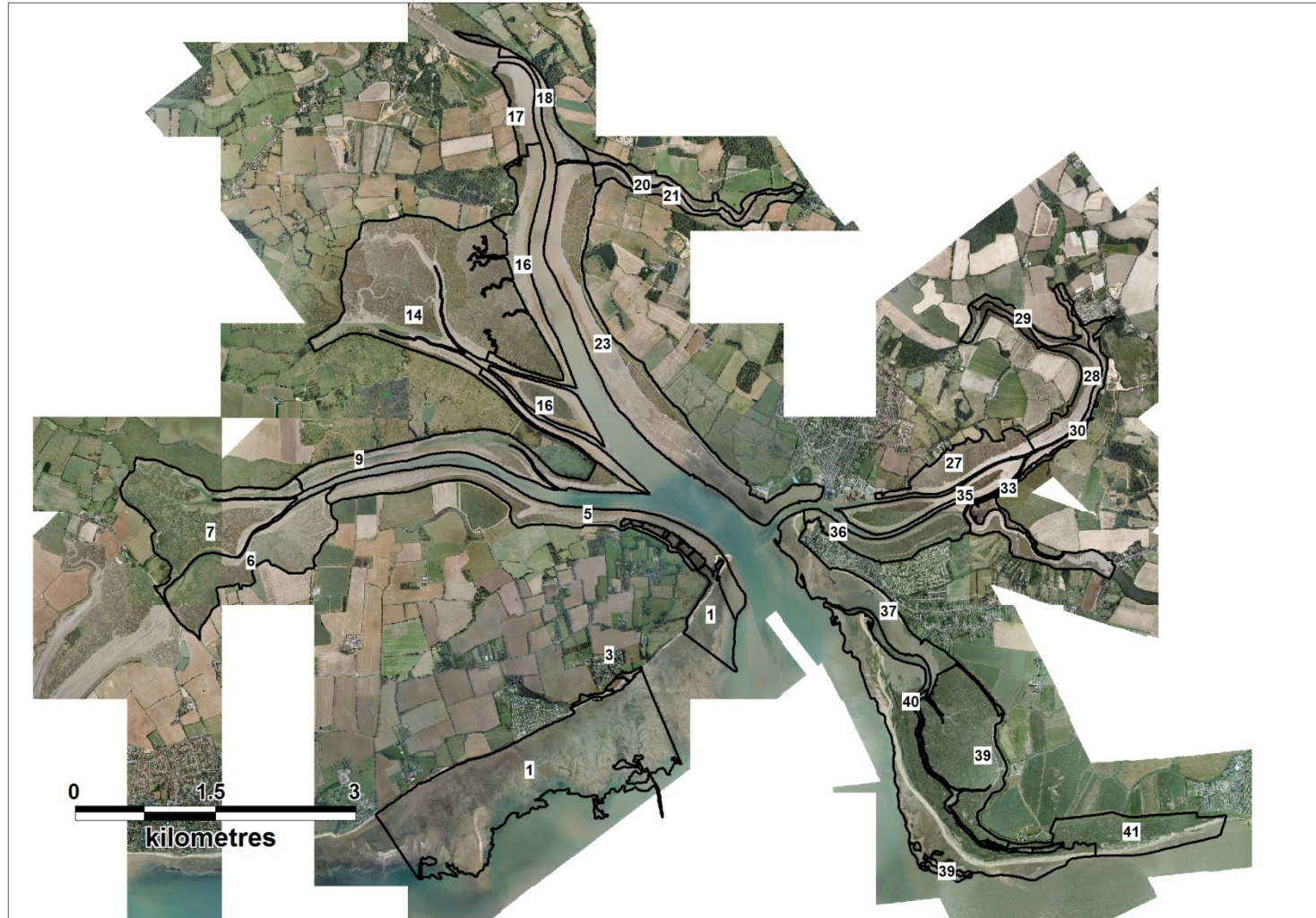


Map 29. Units 70, 71 & 74 Blackwater Estuary SSSI.



Map 30. Units 74, 75, 76, 77, 88 & Orplands Blackwater Estuary SSSI.

4. COLNE ESTUARY



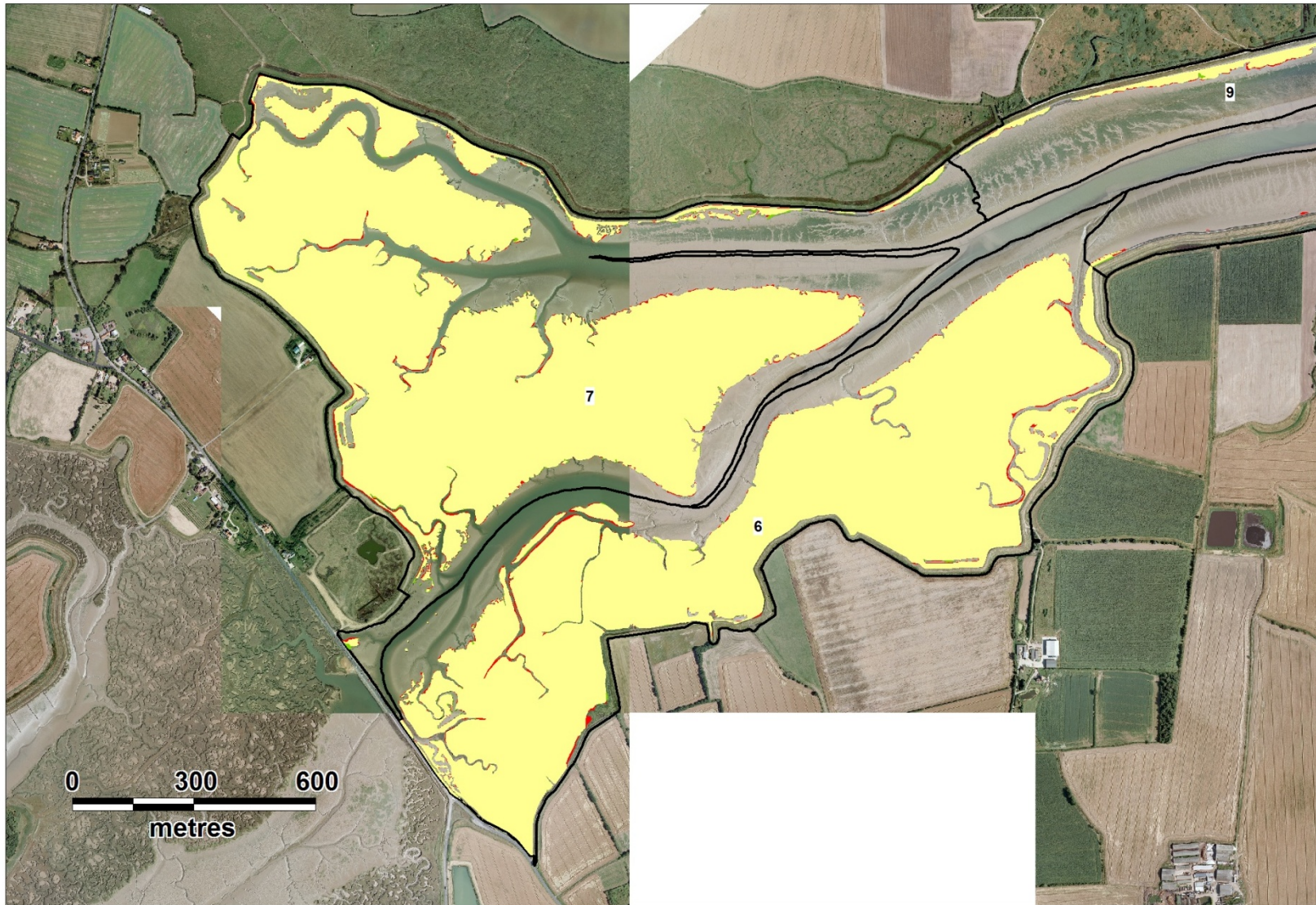
Map 31. Colne Estuary (SSSI). Location of Management Units.



Map 32. Units 1-5 Colne Estuary SSSI



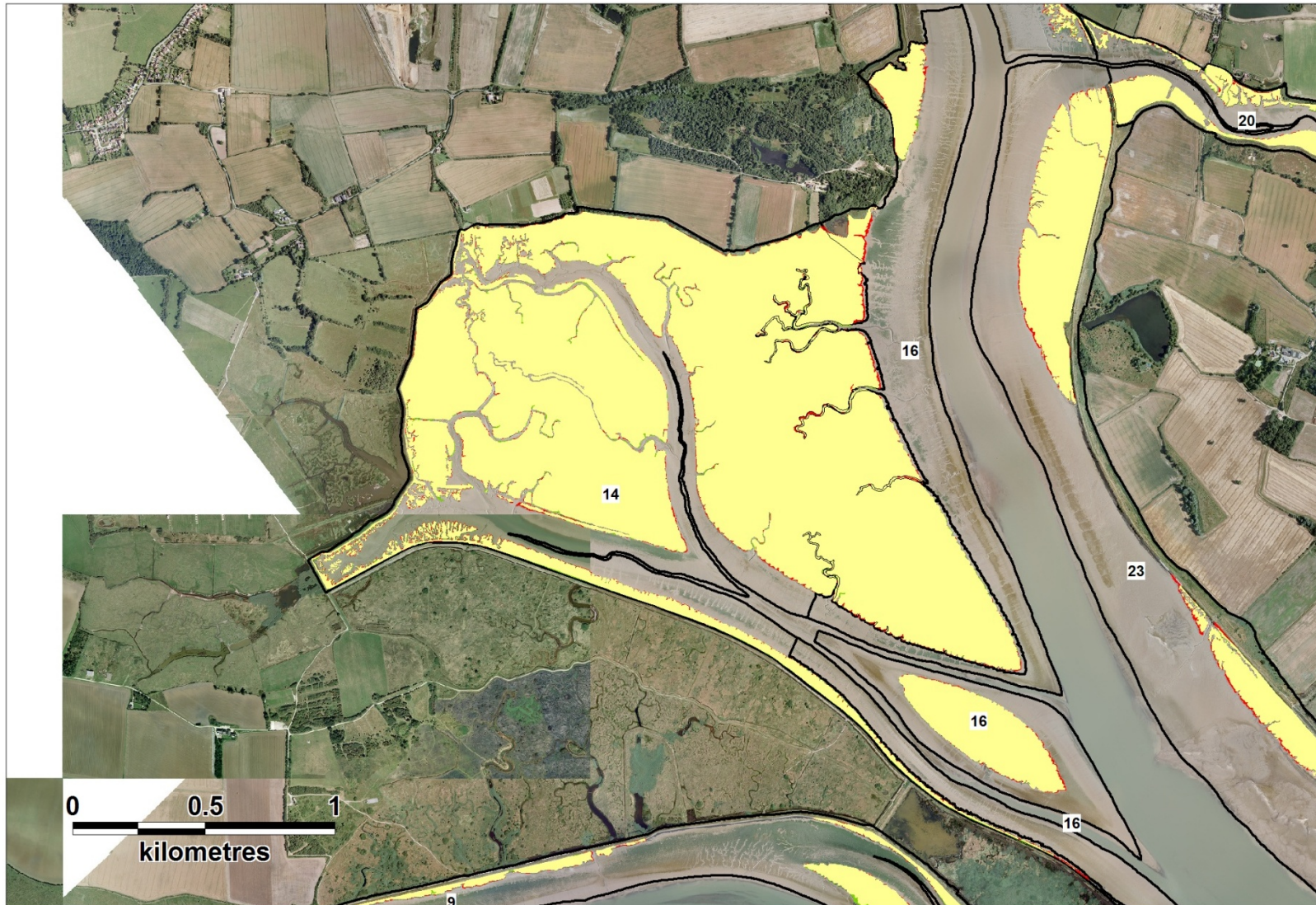
Map 33. Unit 3 Colne Estuary SSSI



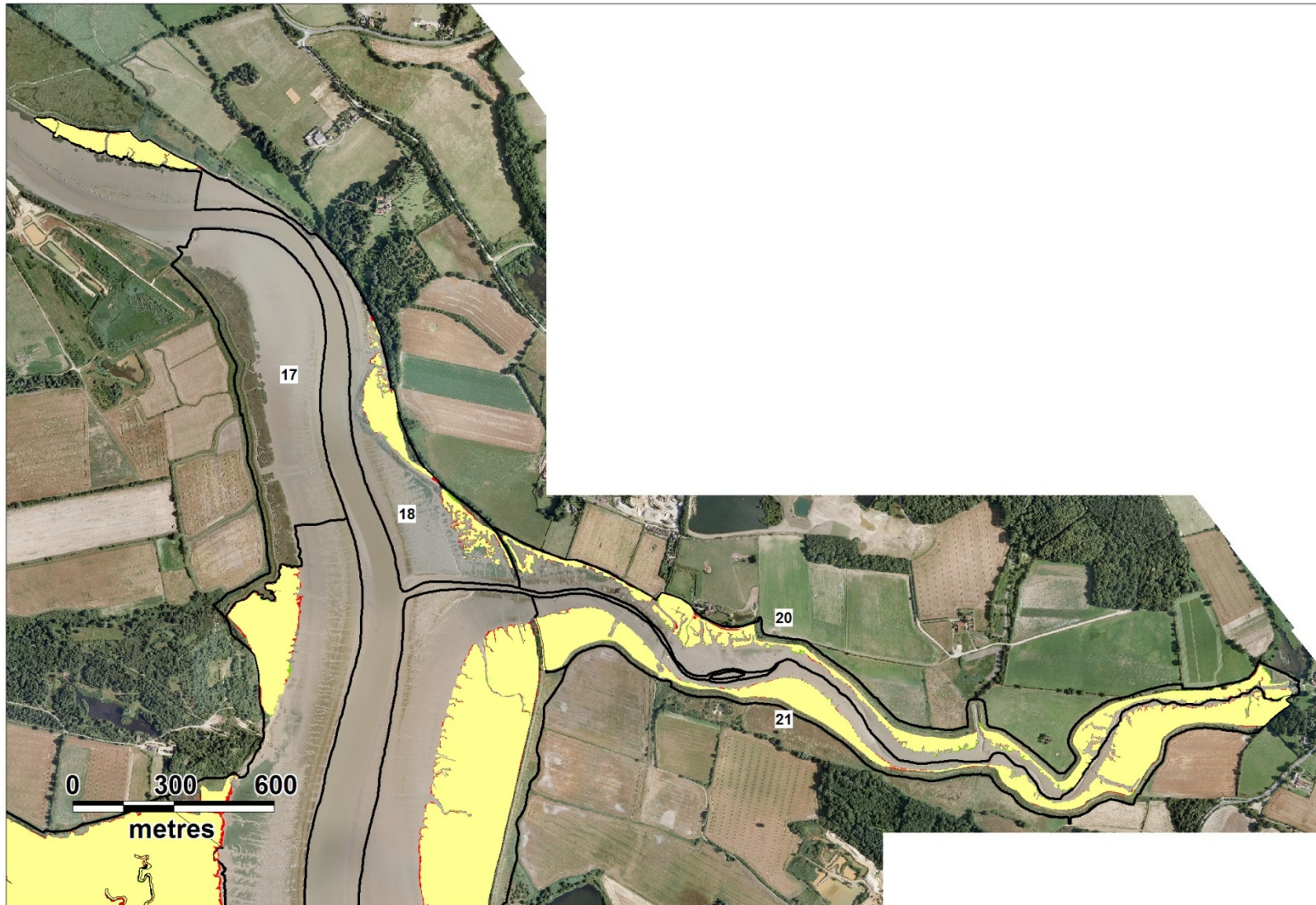
Map 34. Units 6 & 7 Colne Estuary SSSI



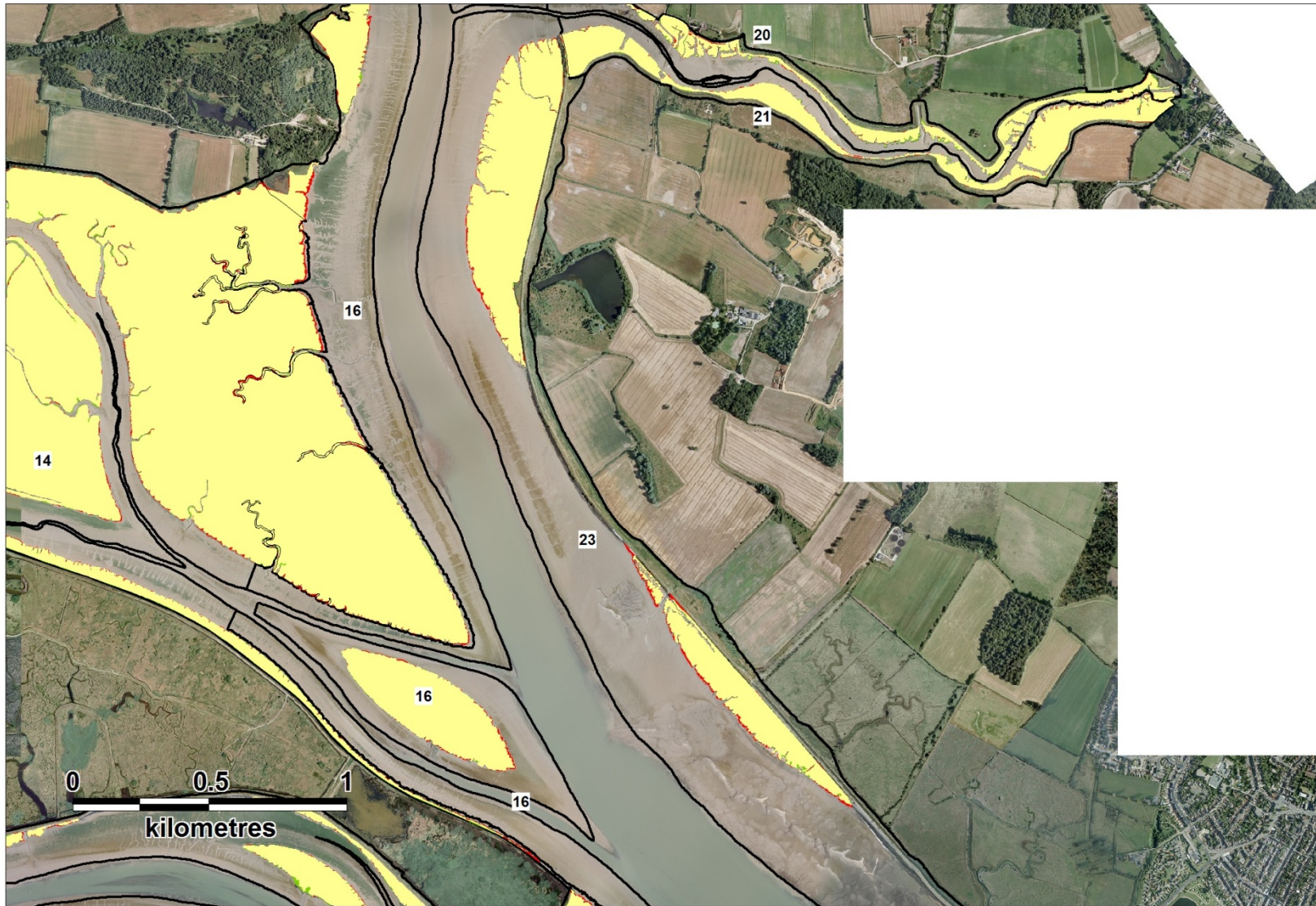
Map 35. Unit 9 Colne Estuary SSSI



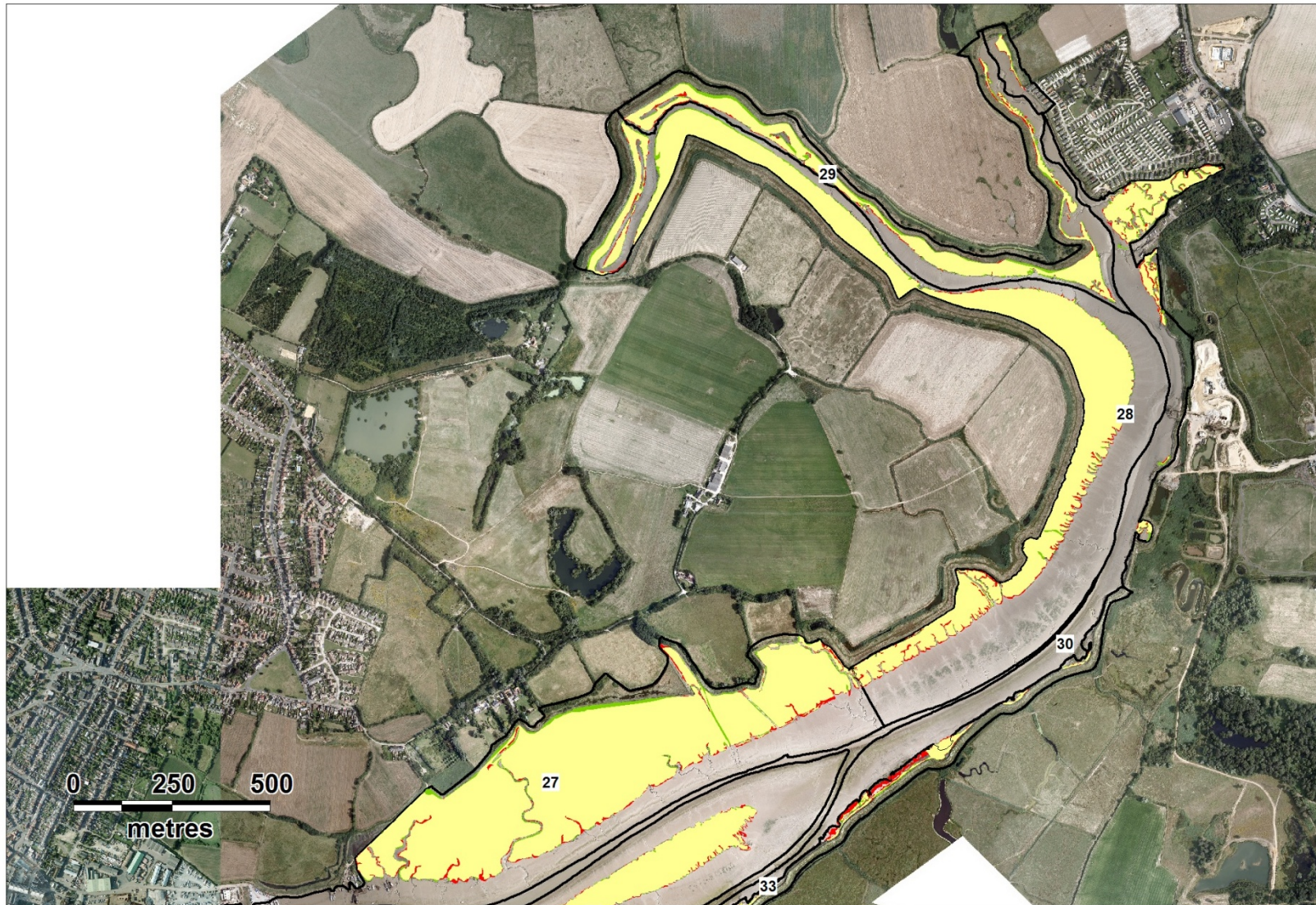
Map 36. Units 14 & 16 Colne Estuary SSSI



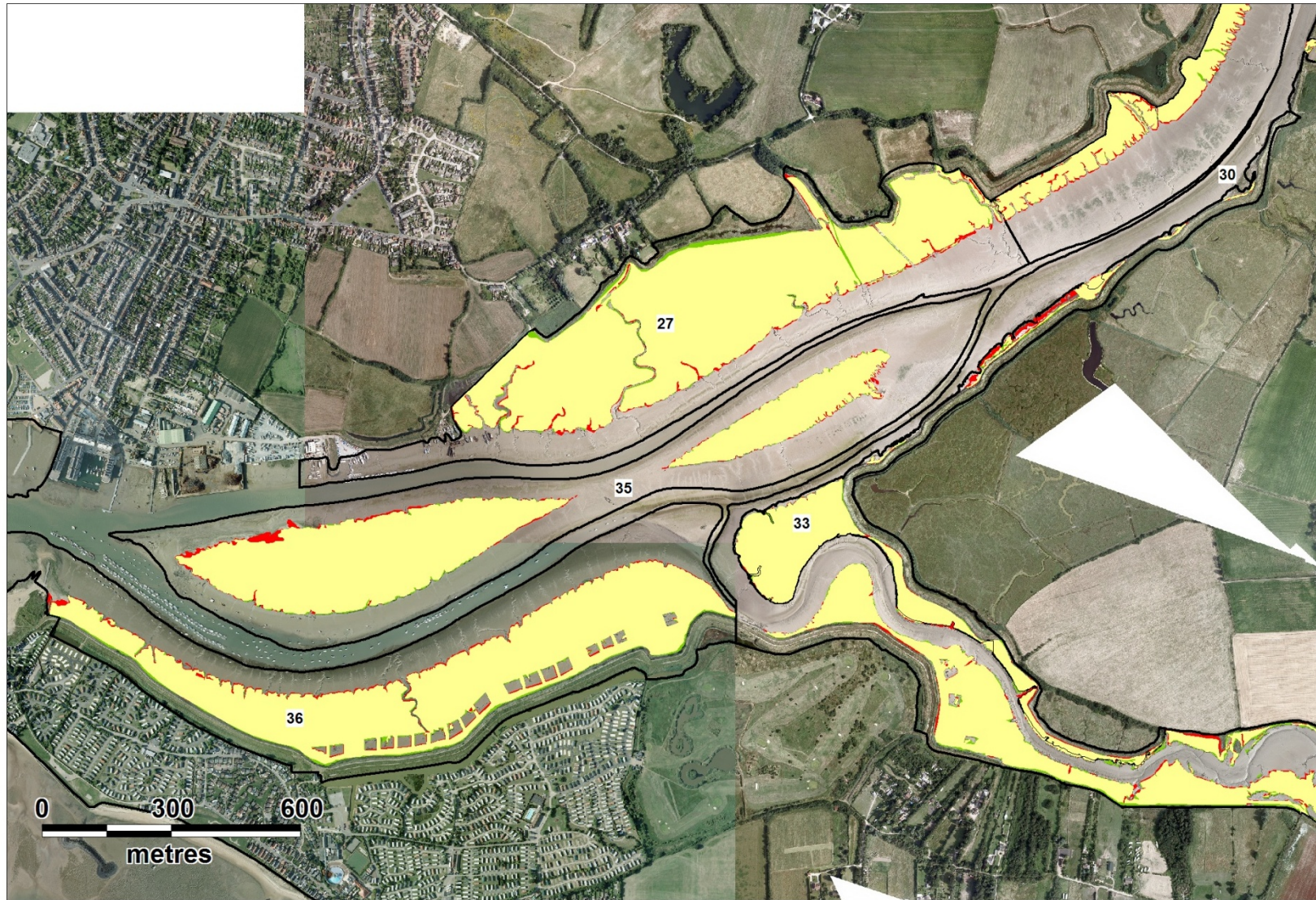
Map 37. Units 17, 18, 20 & 21 Colne Estuary SSSI



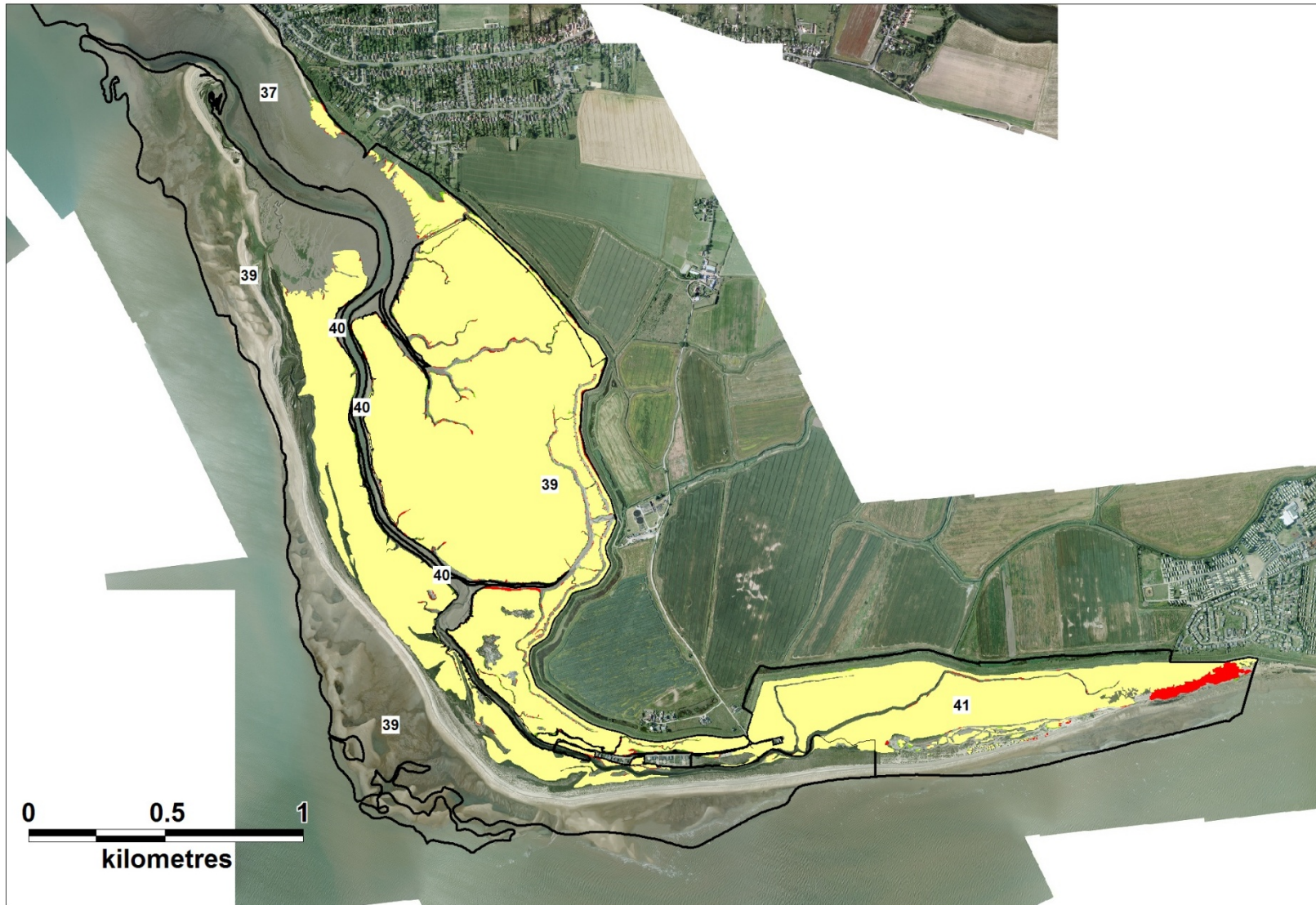
Map 38. Unit 23 Colne Estuary SSSI



Map 39. Units 27, 28, 29 & 30 Colne Estuary SSSI



Map 40. Units 33, 35 & 36 Colne Estuary SSSI



Map 41. Units 37, 39, 40 & 41 Colne Estuary SSSI

5. CROUCH & ROACH



Map 42. Crouch & Roach SSSI (West). Location of Management Units.



Map 43. Crouch & Roach SSSI (East). Location of Management Units.



Map 44. Unit 1 Crouch & Roach SSSI.



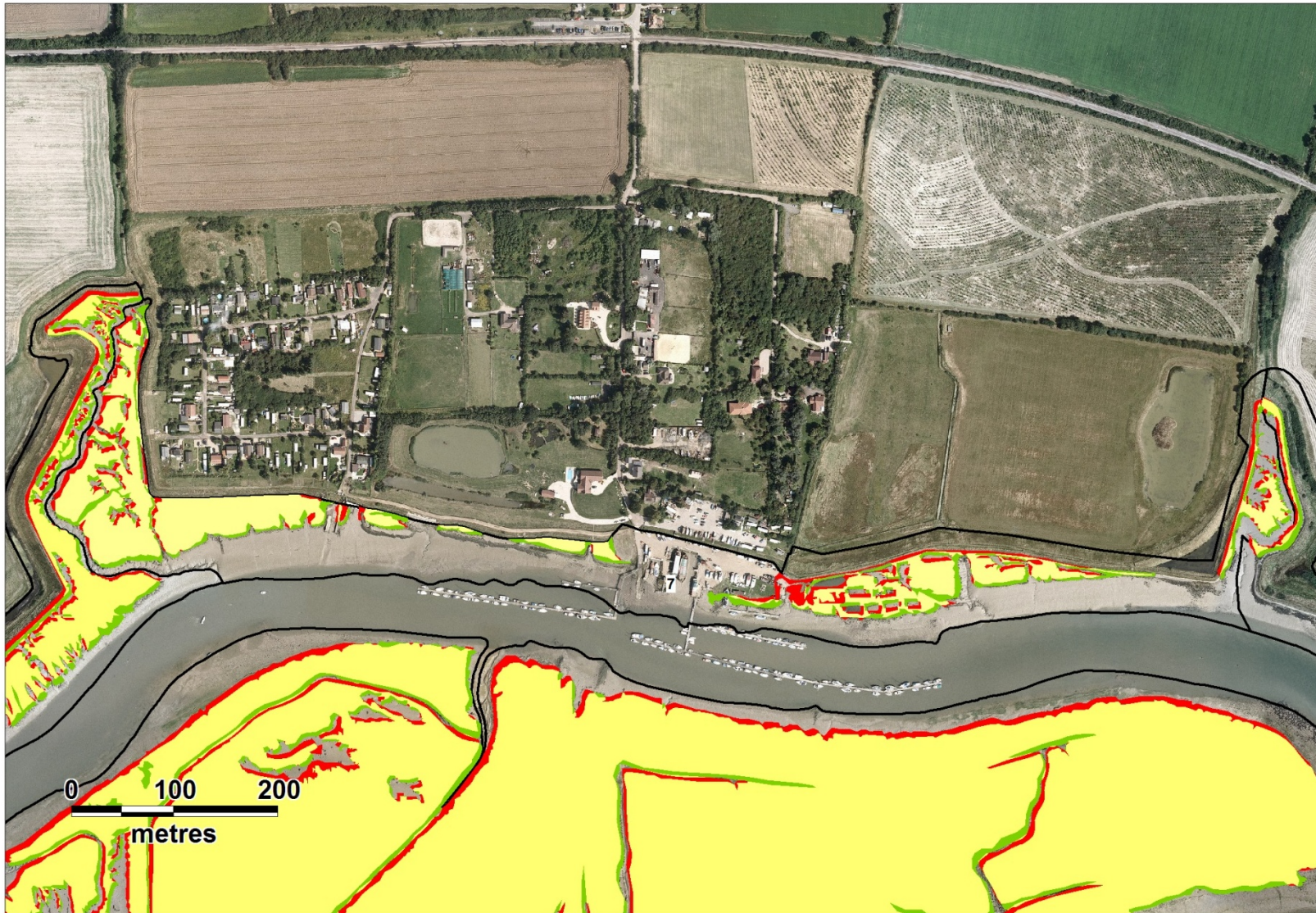
Map 45. Unit 2 Crouch & Roach SSSI.



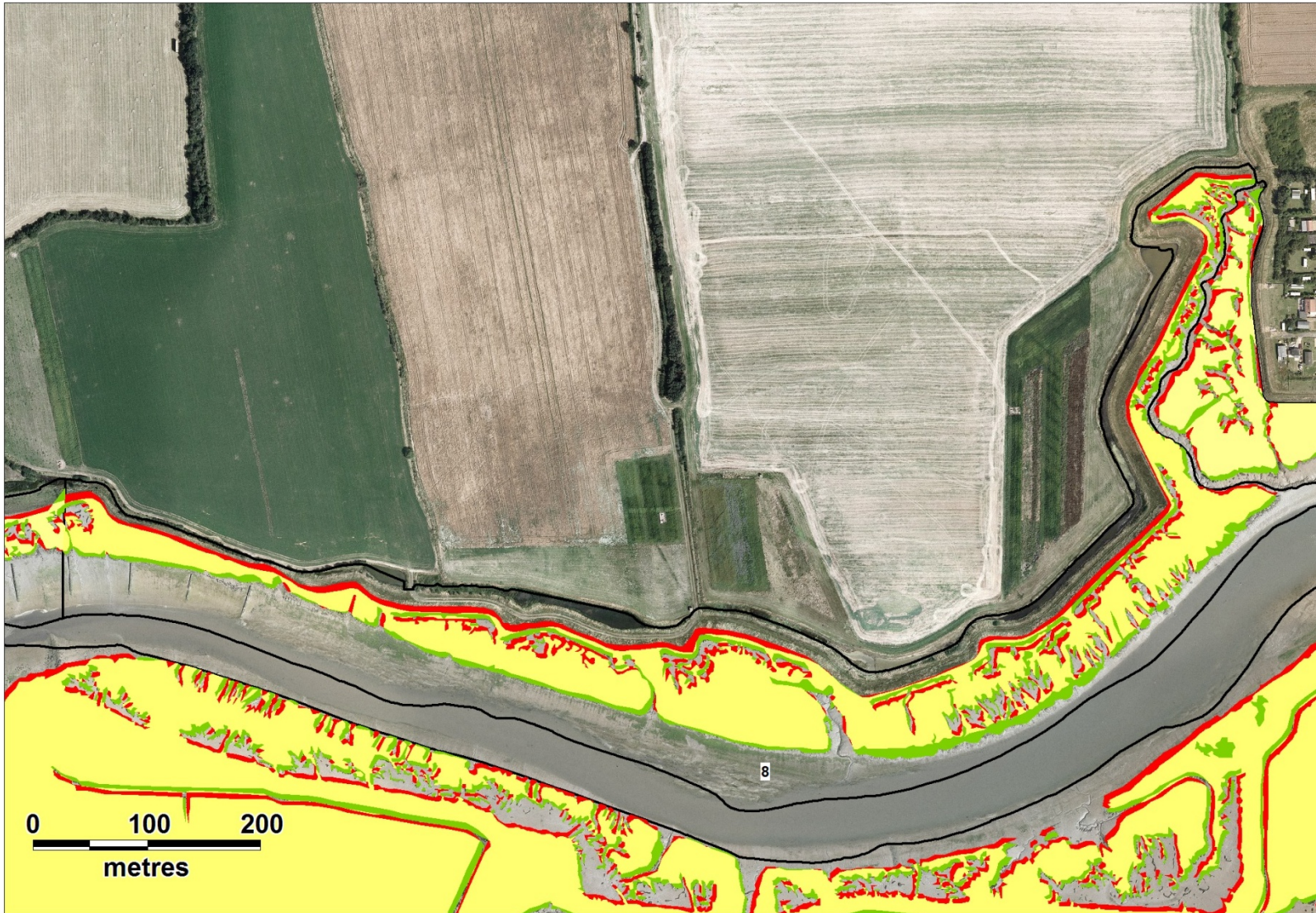
Map 46. Unit 4 Crouch & Roach SSSI.



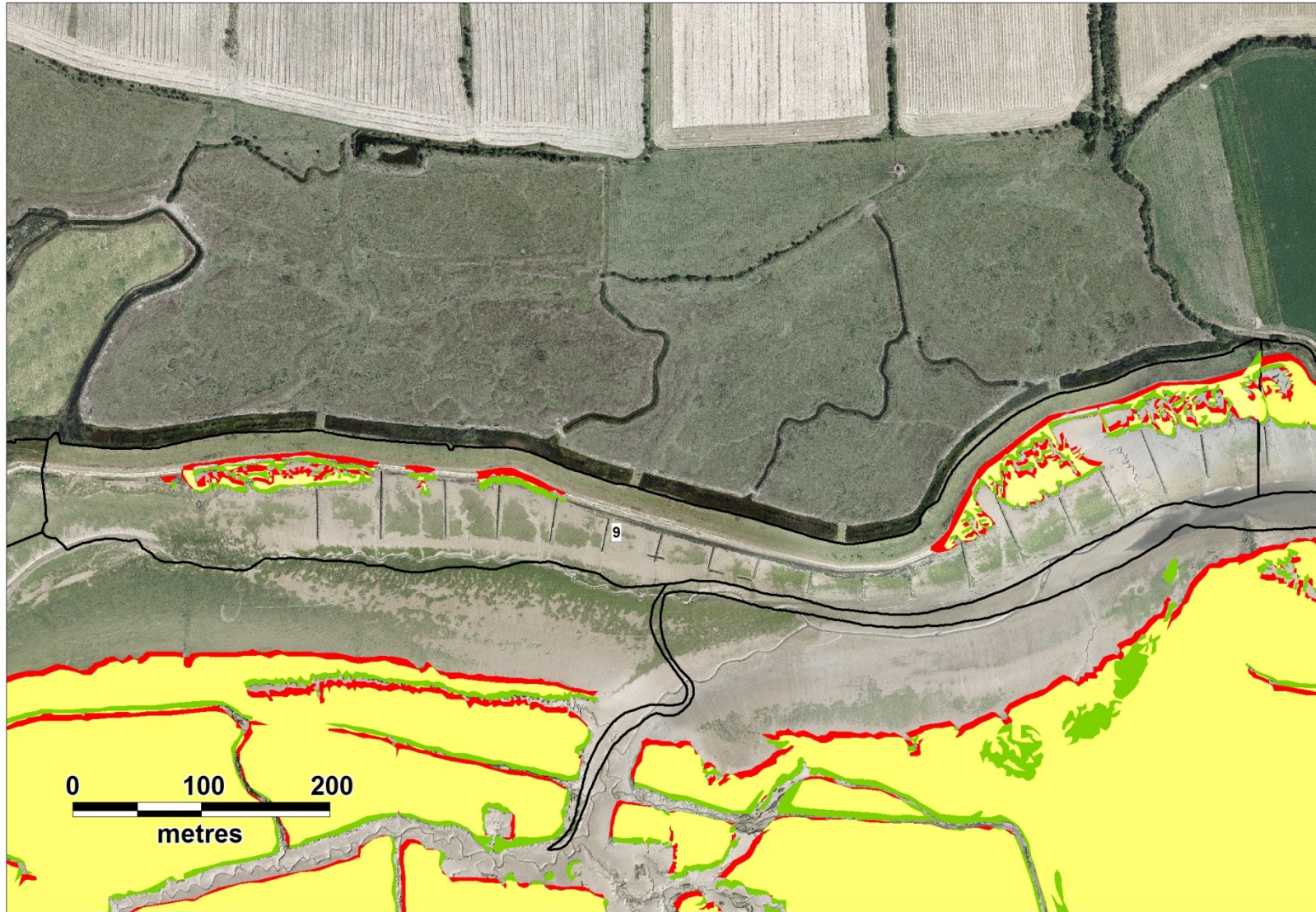
Map 47. Unit 5 Crouch & Roach SSSI.



Map 48. Unit 7 Crouch & Roach SSSI.



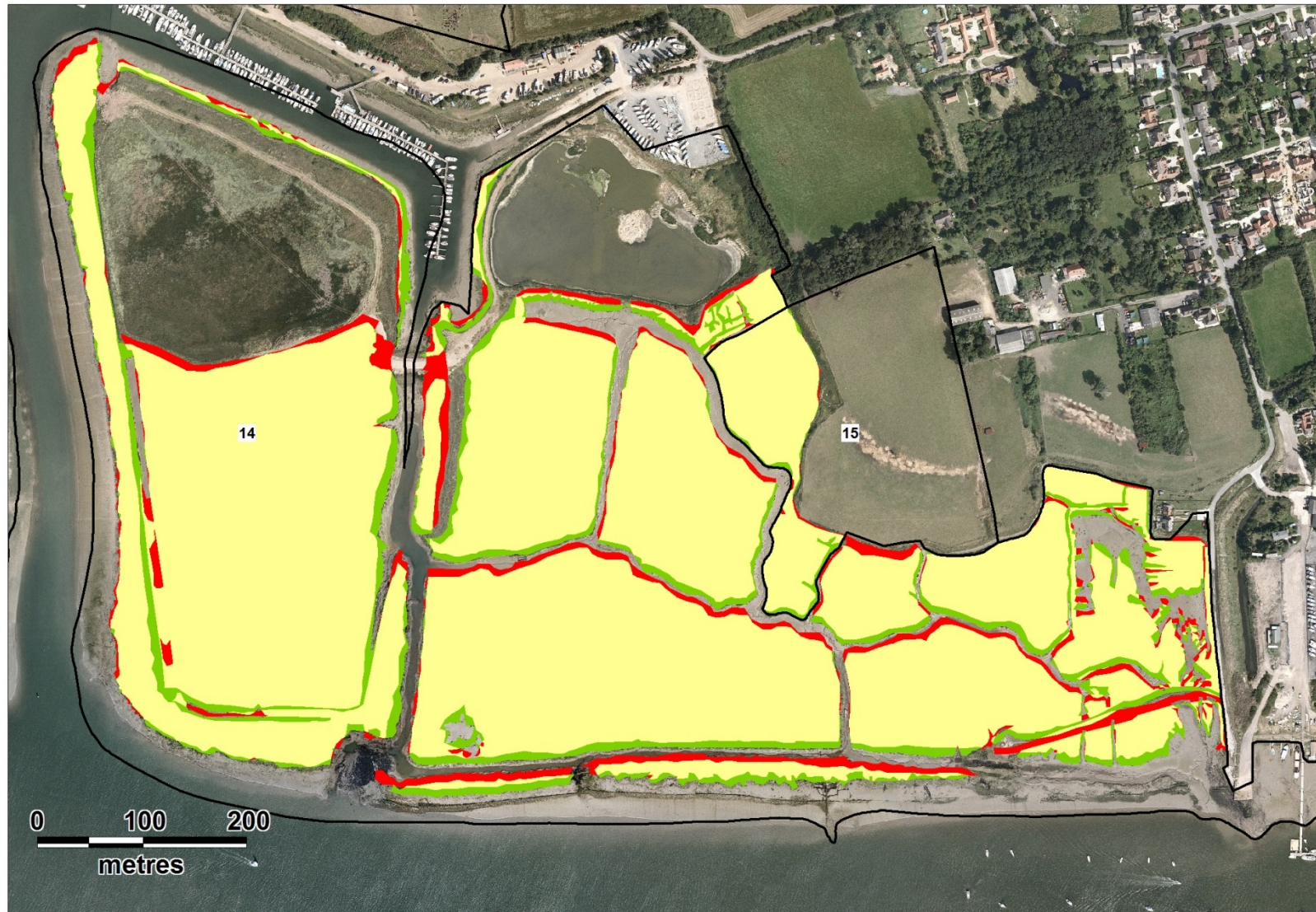
Map 49. Unit 8 Crouch & Roach SSSI.



Map 50. Unit 9 Crouch & Roach SSSI.



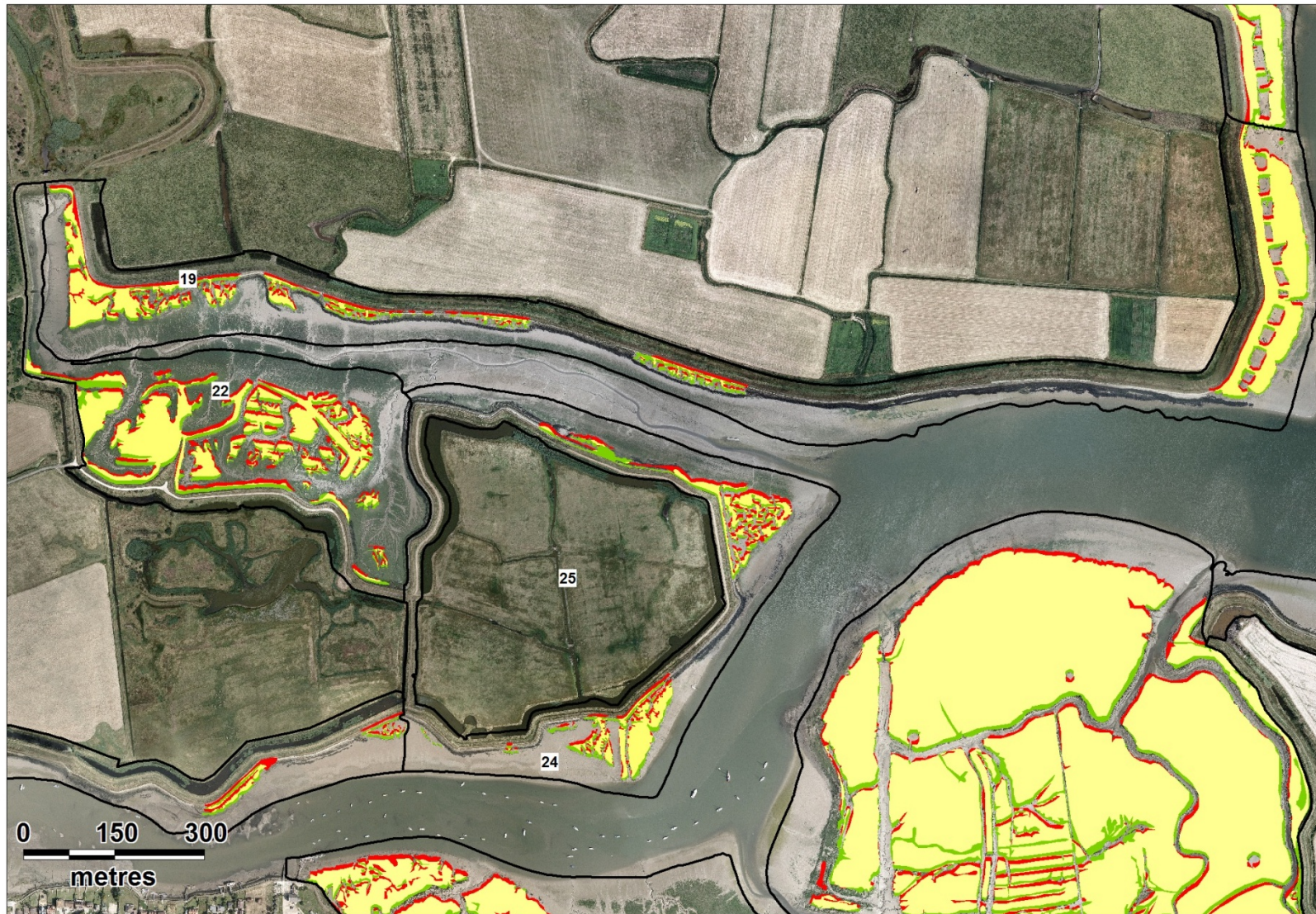
Map 51. Unit 11 Crouch & Roach SSSI.



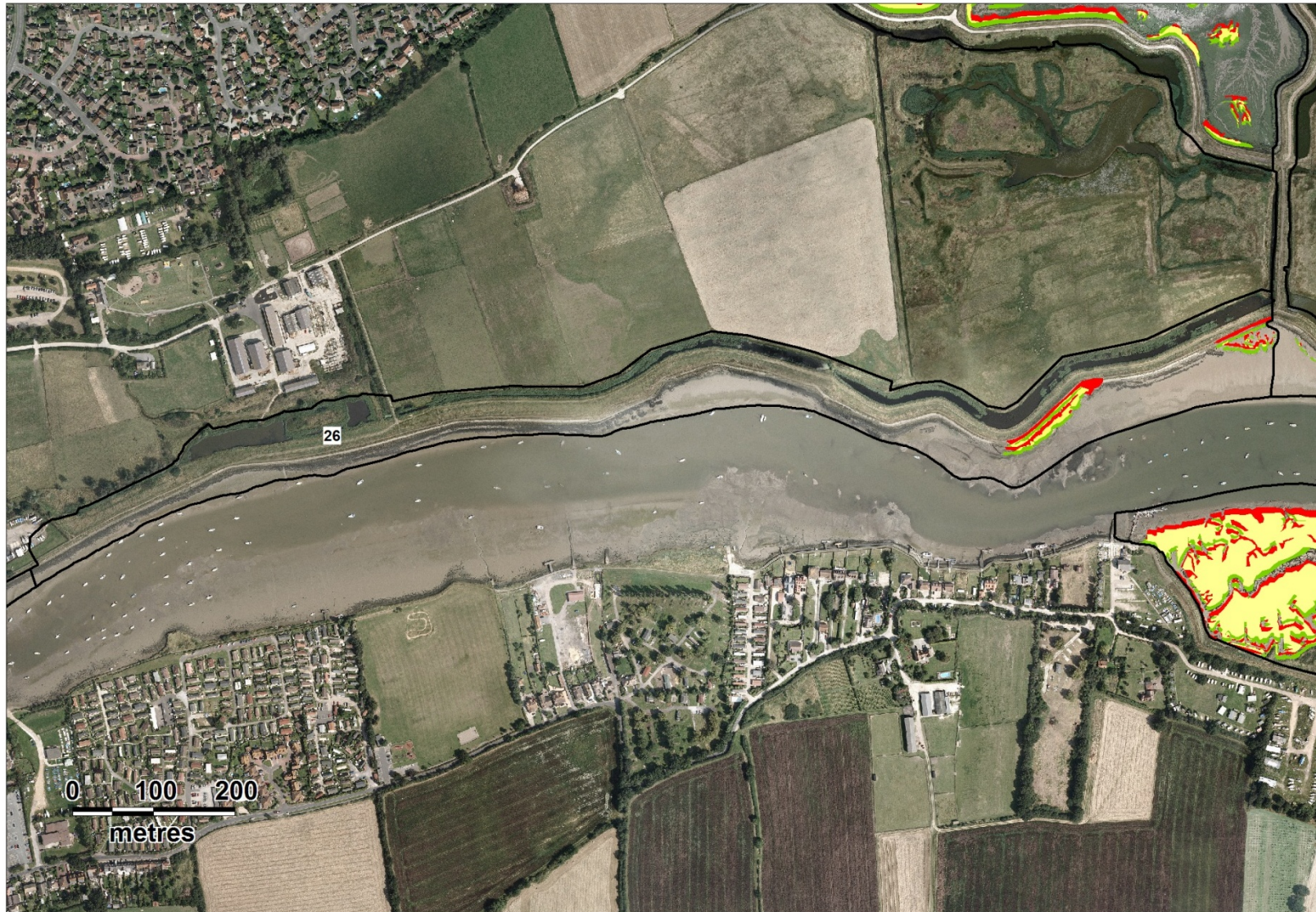
Map 52. Units 14 & 15 Crouch & Roach SSSI.



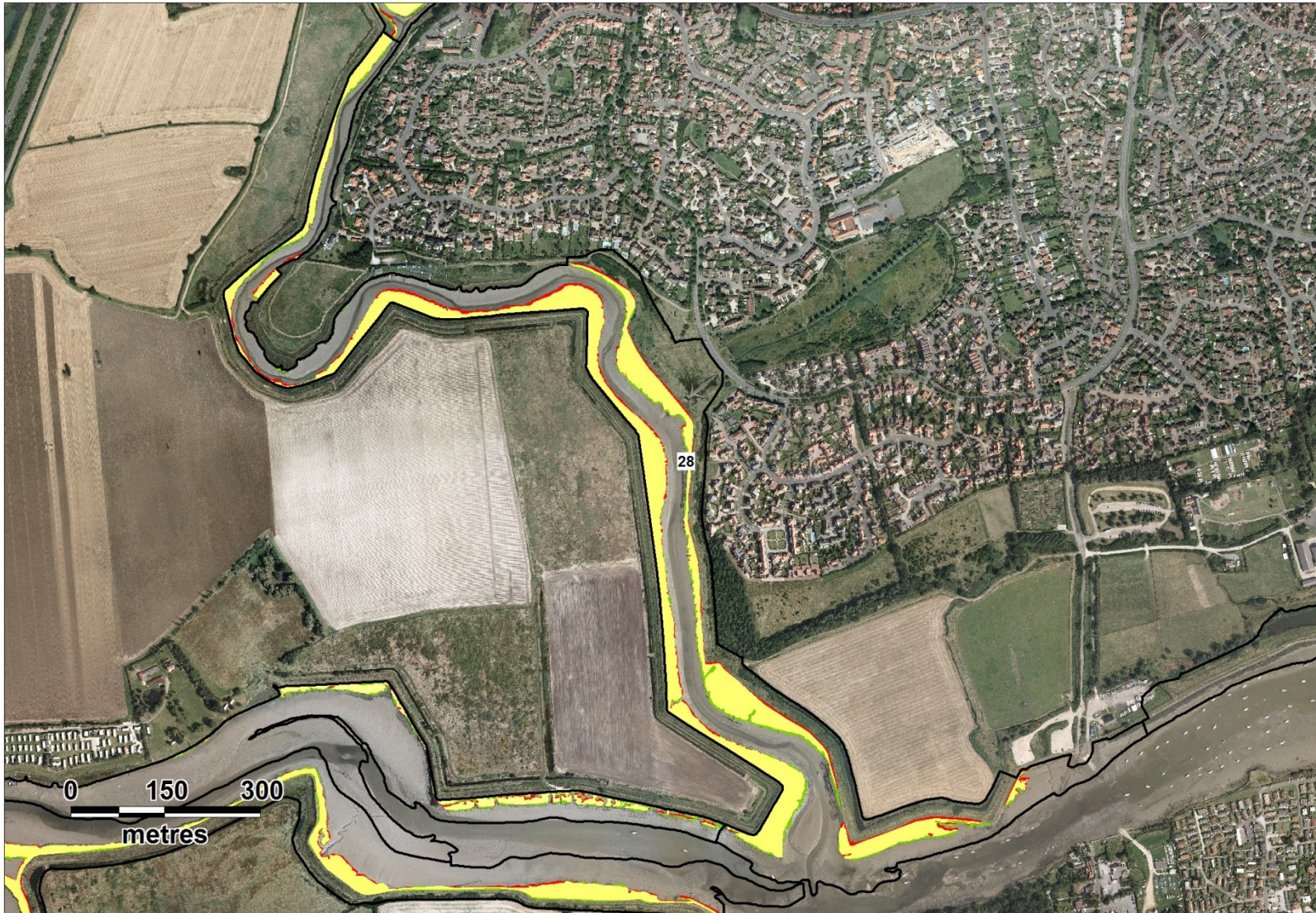
Map 53. Unit 17 Crouch & Roach SSSI.



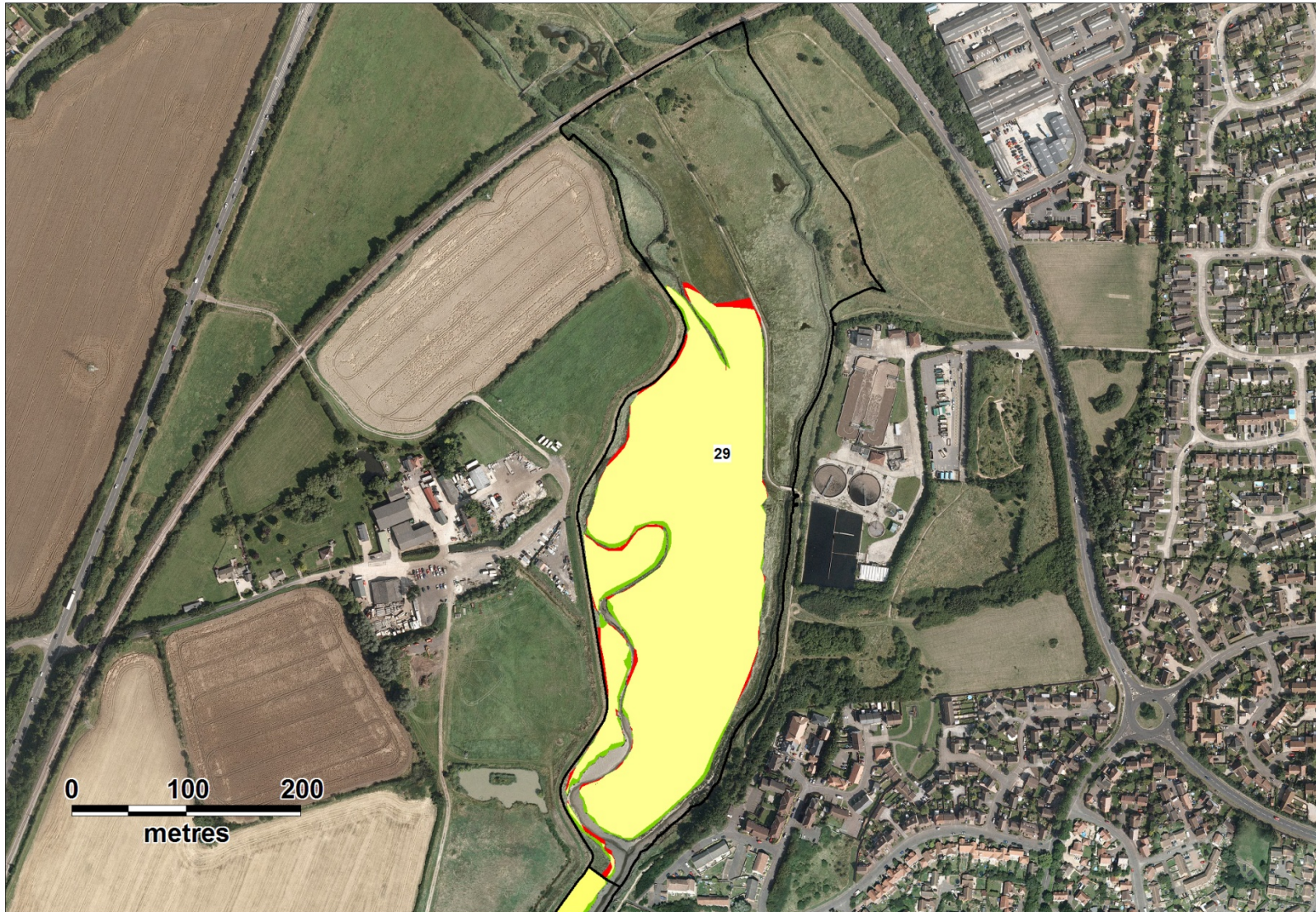
Map 54. Units 19, 22, 24 & 25 Crouch & Roach SSSI.



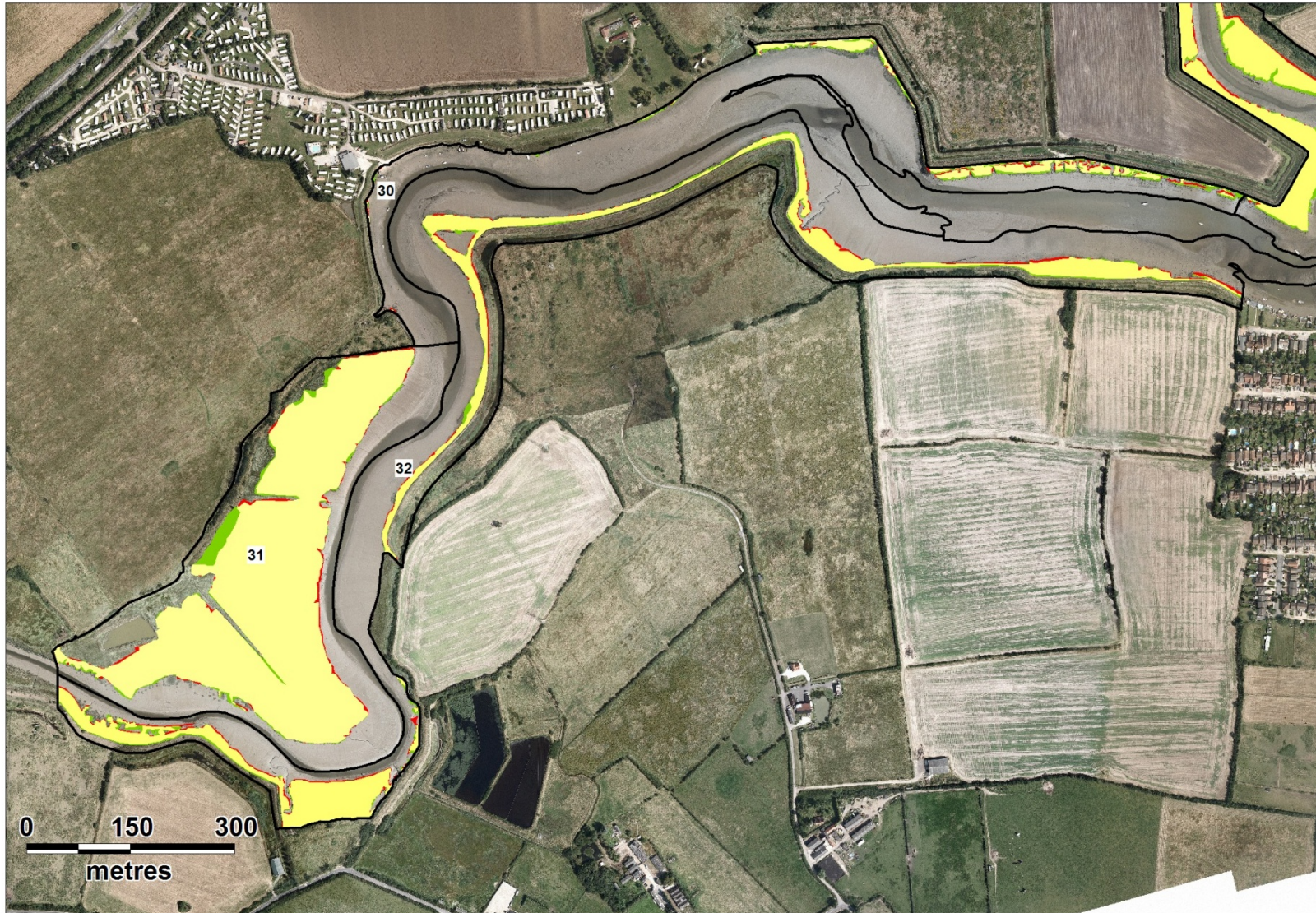
Map 55. Unit 26 Crouch & Roach SSSI.



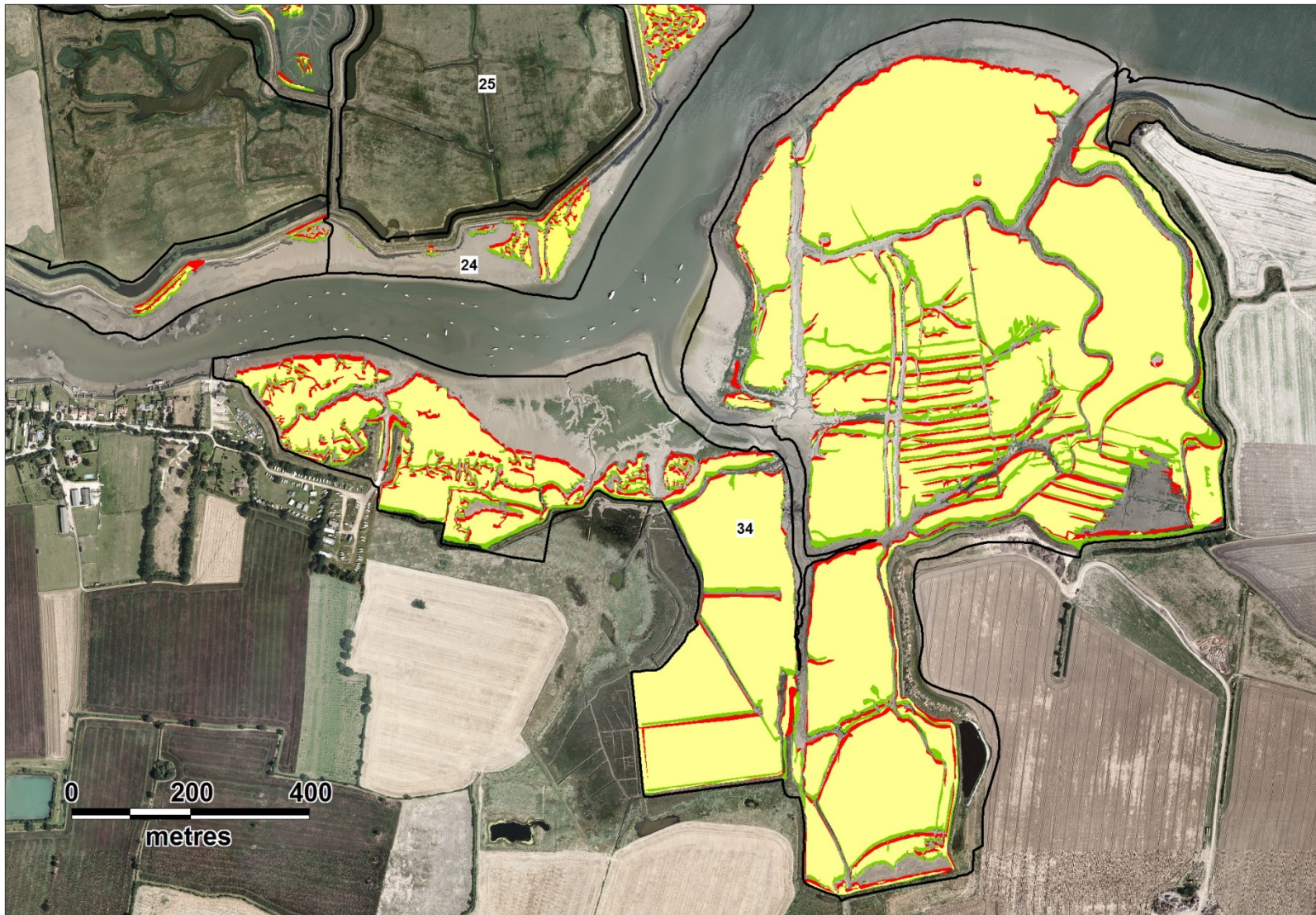
Map 56. Unit 28 Crouch & Roach SSSI.



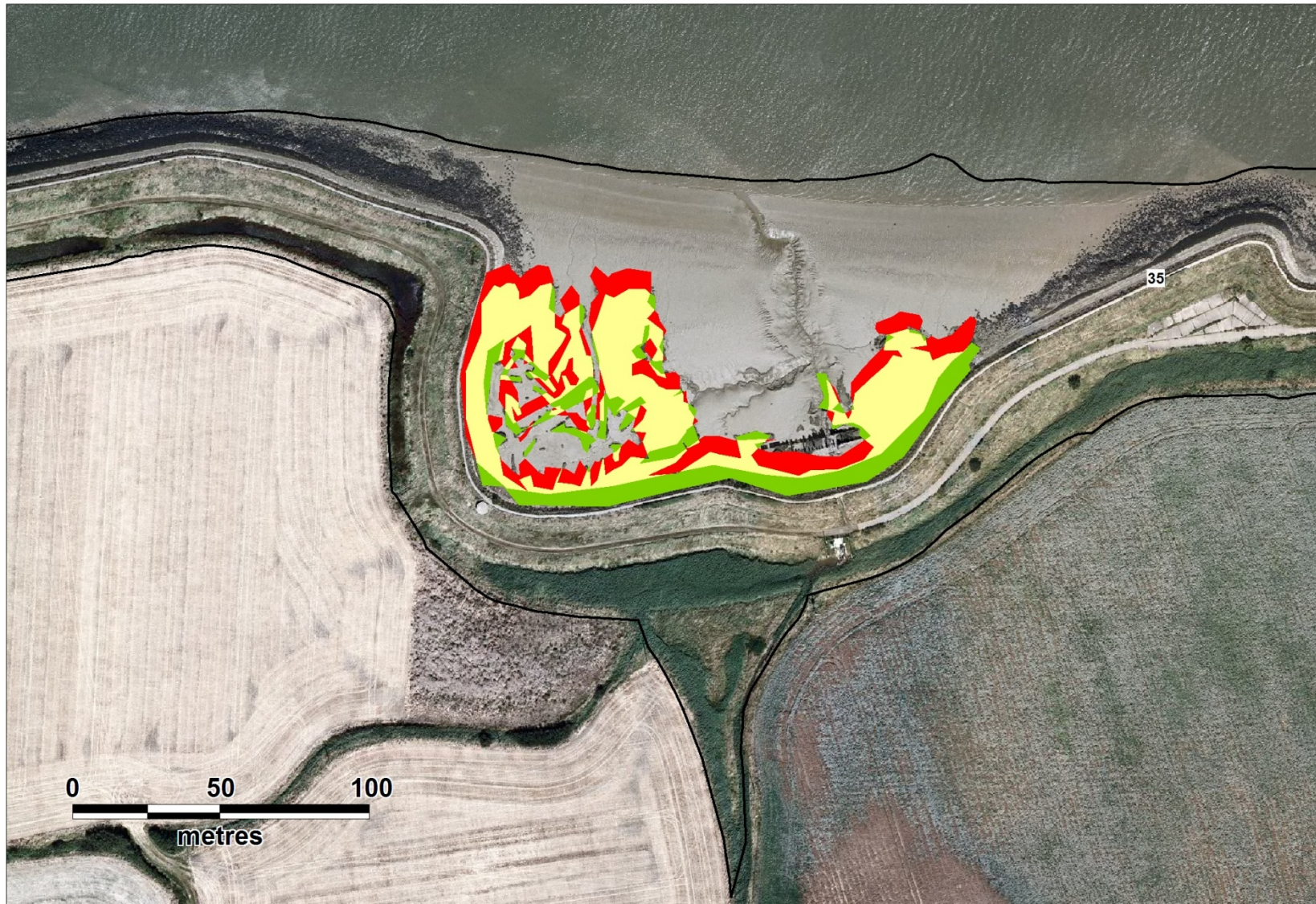
Map 57. Unit 29 Crouch & Roach SSSI.



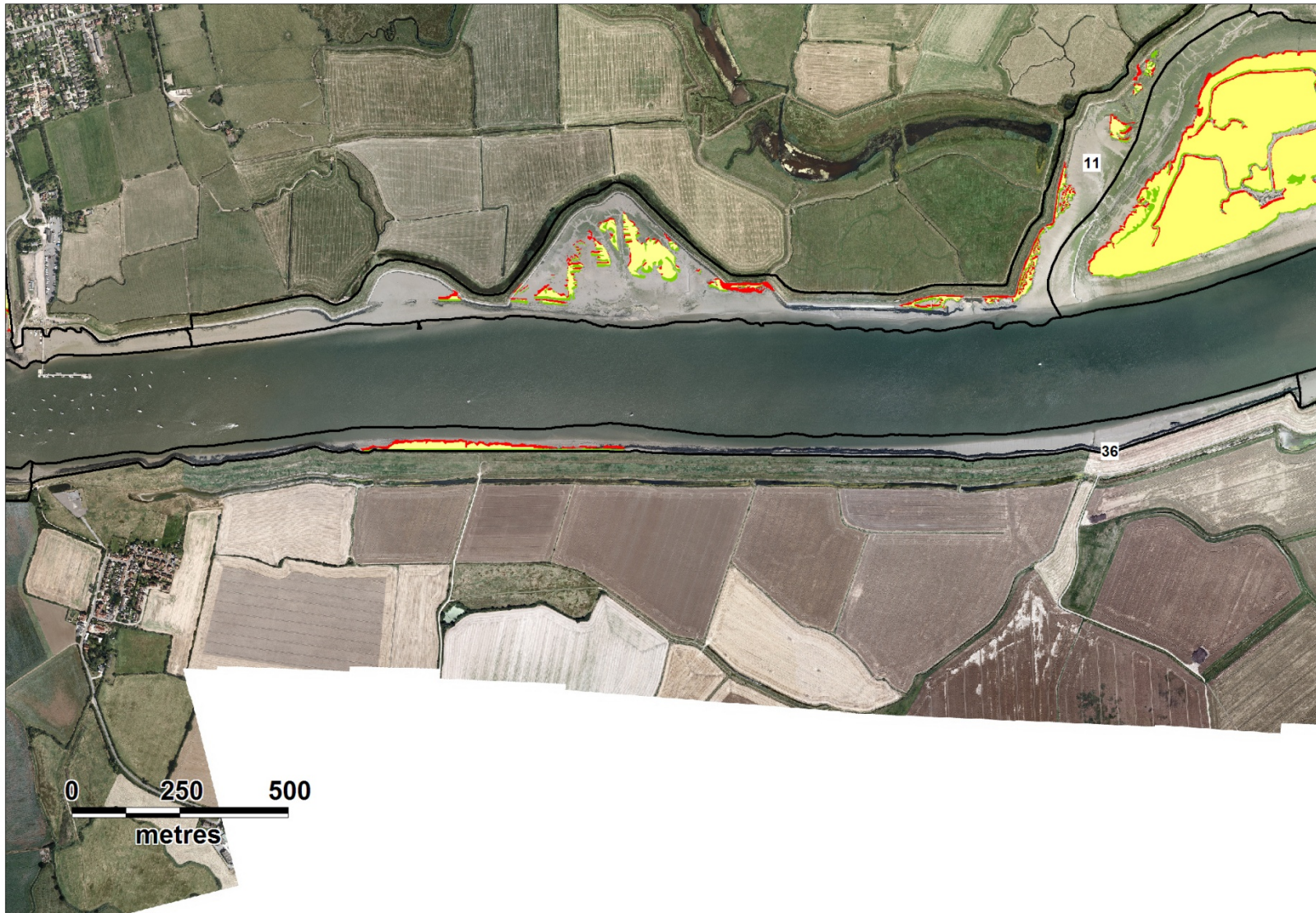
Map 58. Units 30, 31 & 32 Crouch & Roach SSSI.



Map 59. Unit 34 Crouch & Roach SSSI.



Map 60. Unit 35 Crouch & Roach SSSI.



Map 61. Unit 36 Crouch & Roach SSSI.



Map 62. Unit 37 & 38 Crouch & Roach SSSI.



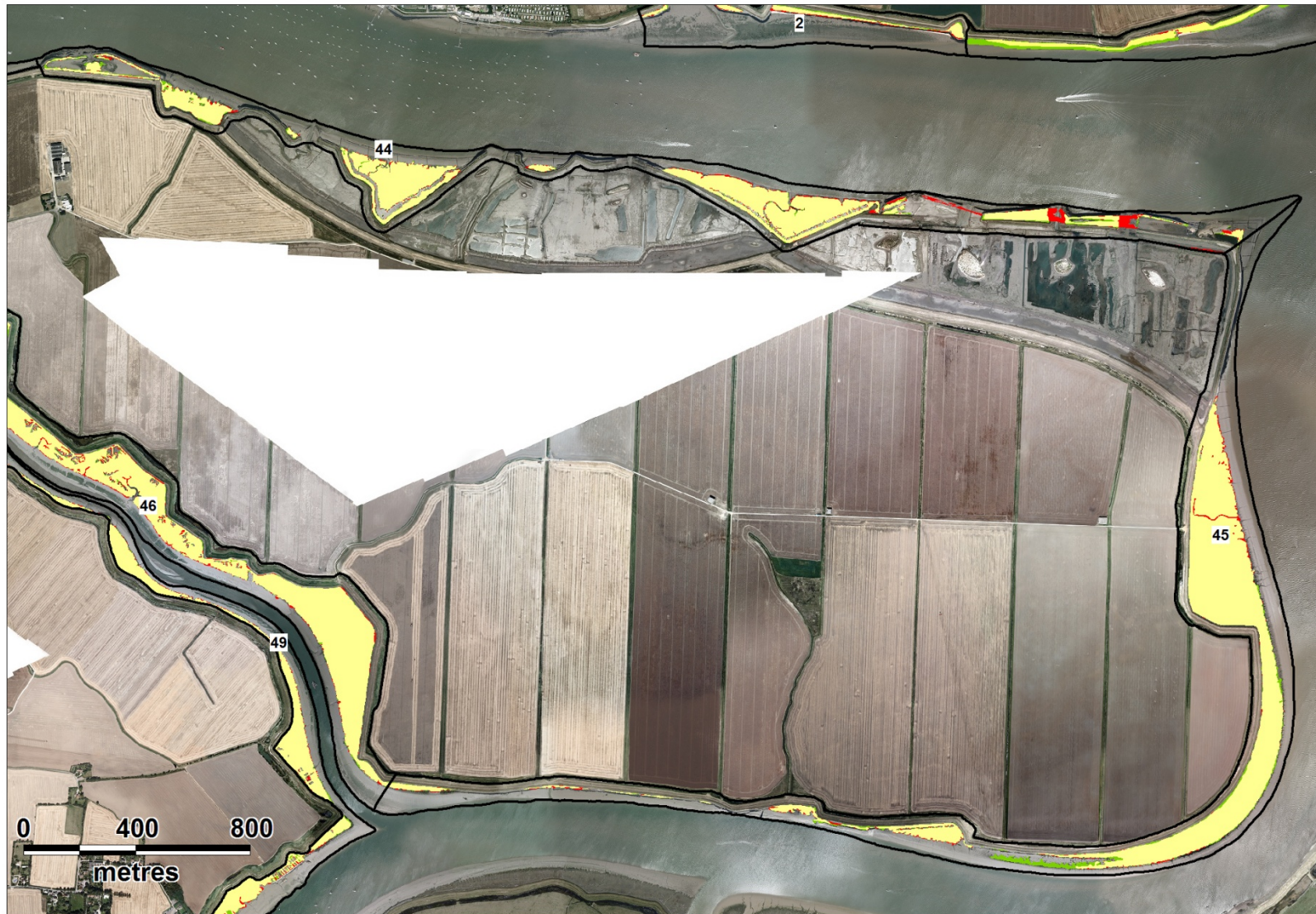
Map 63. Unit 39 Crouch & Roach SSSI.



Map 64. Unit 41 Crouch & Roach SSSI.



Map 65. Unit 43 Crouch & Roach SSSI.



Map 66. Unit 44 & 45 Crouch & Roach SSSI.



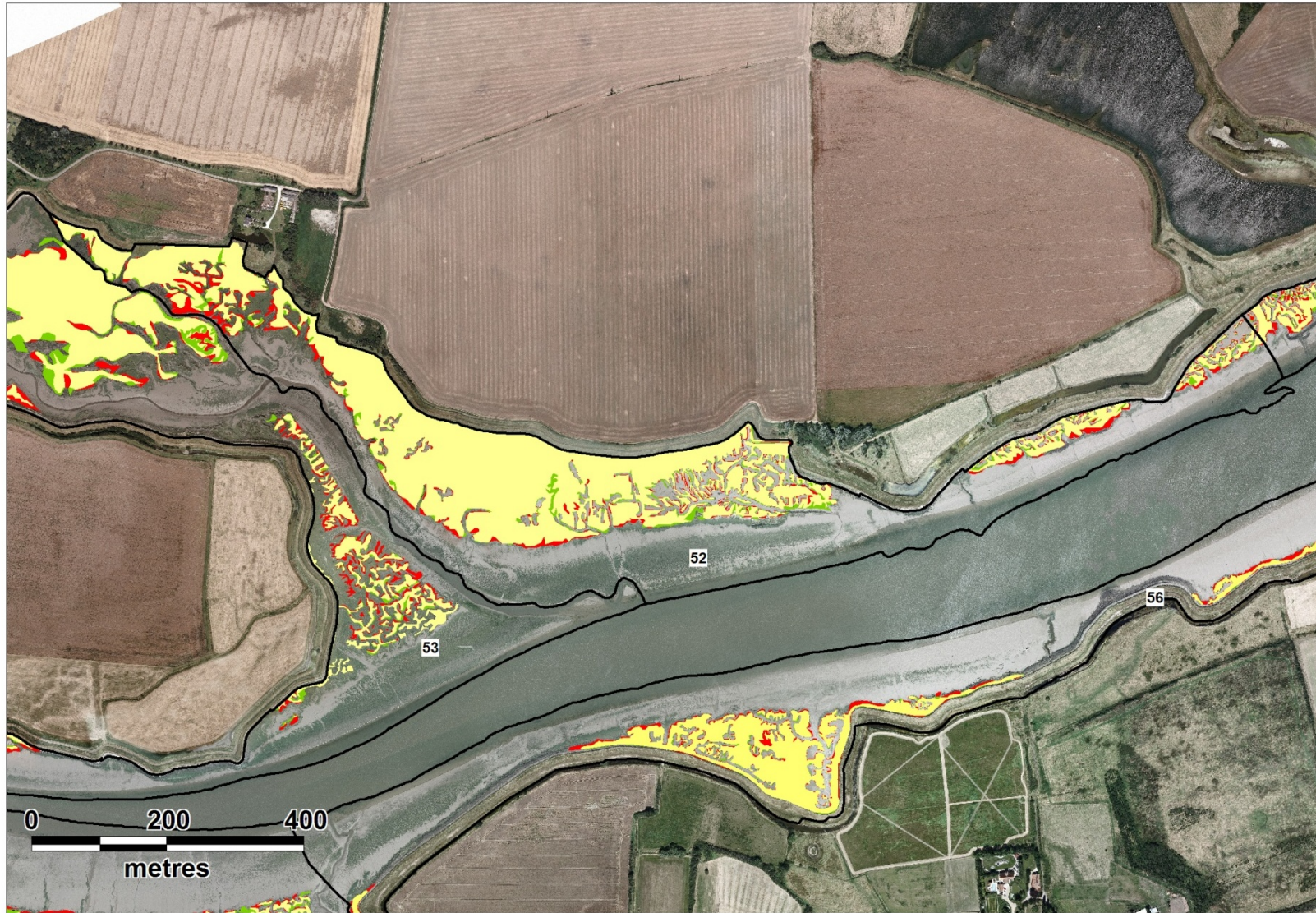
Map 67. Units 46 (West), 47 & 48 Crouch & Roach SSSI.



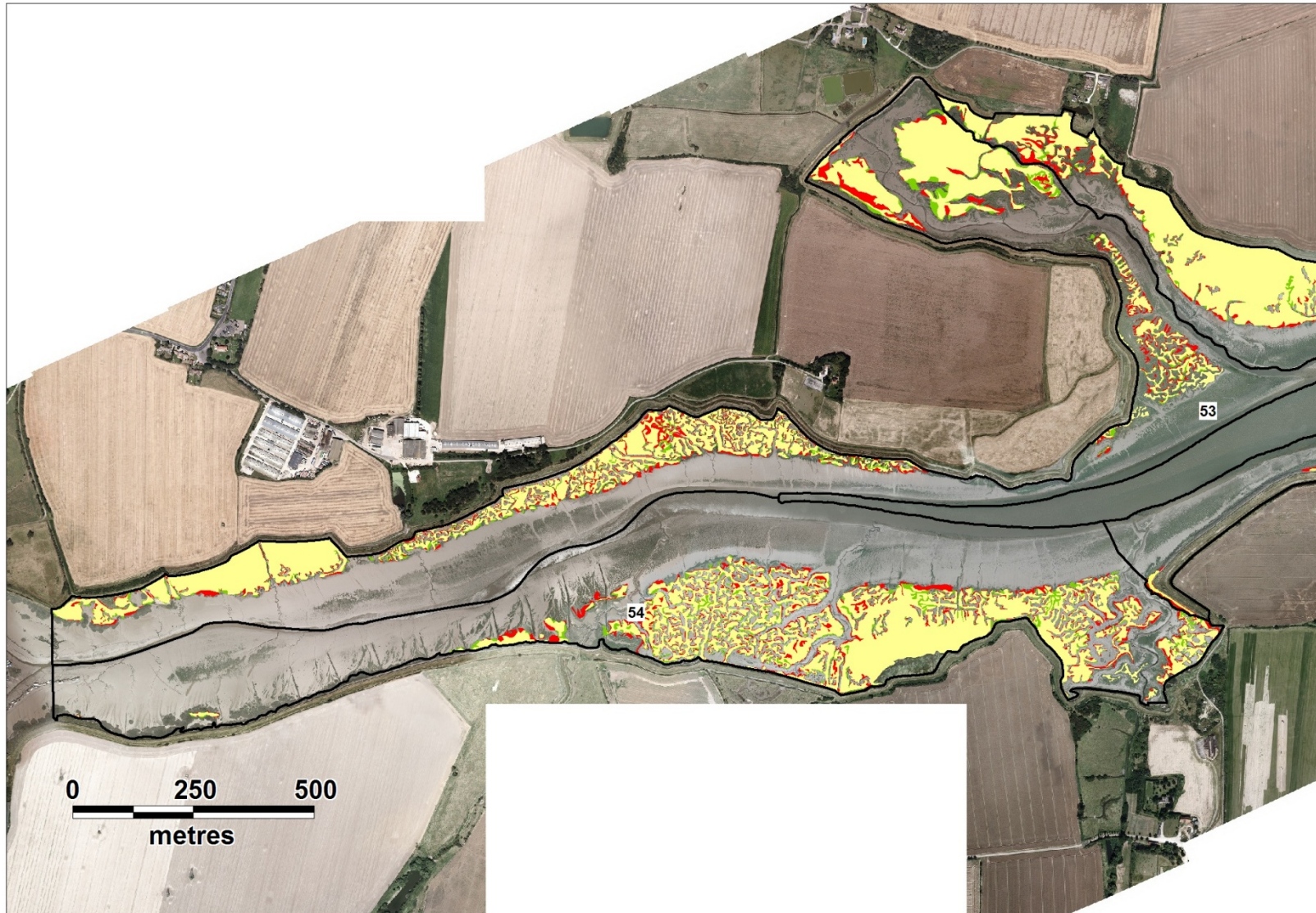
Map 68. Unit 46 (West), 47 & 48 Crouch & Roach SSSI.



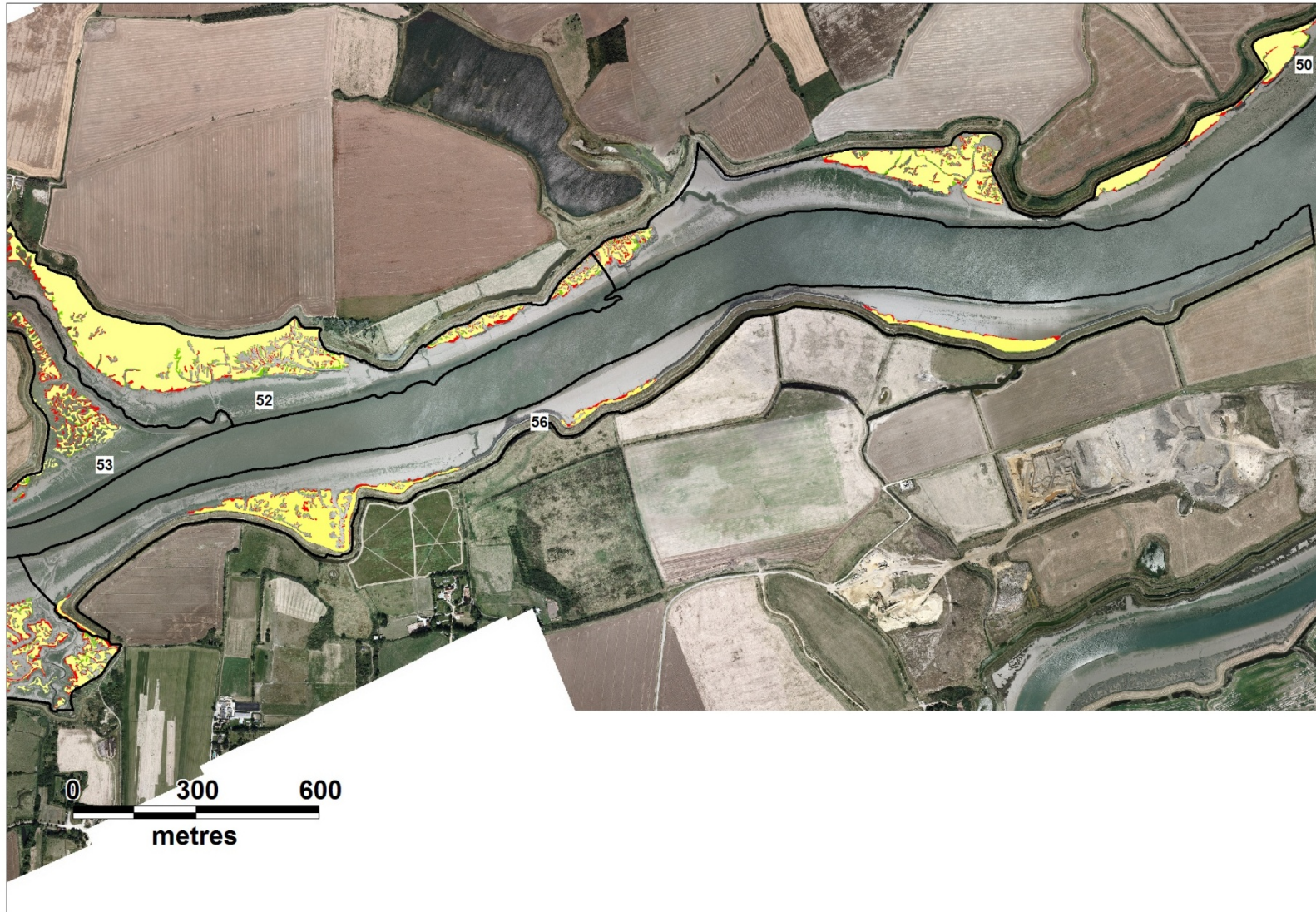
Map 69. Unit 50 Crouch & Roach SSSI.



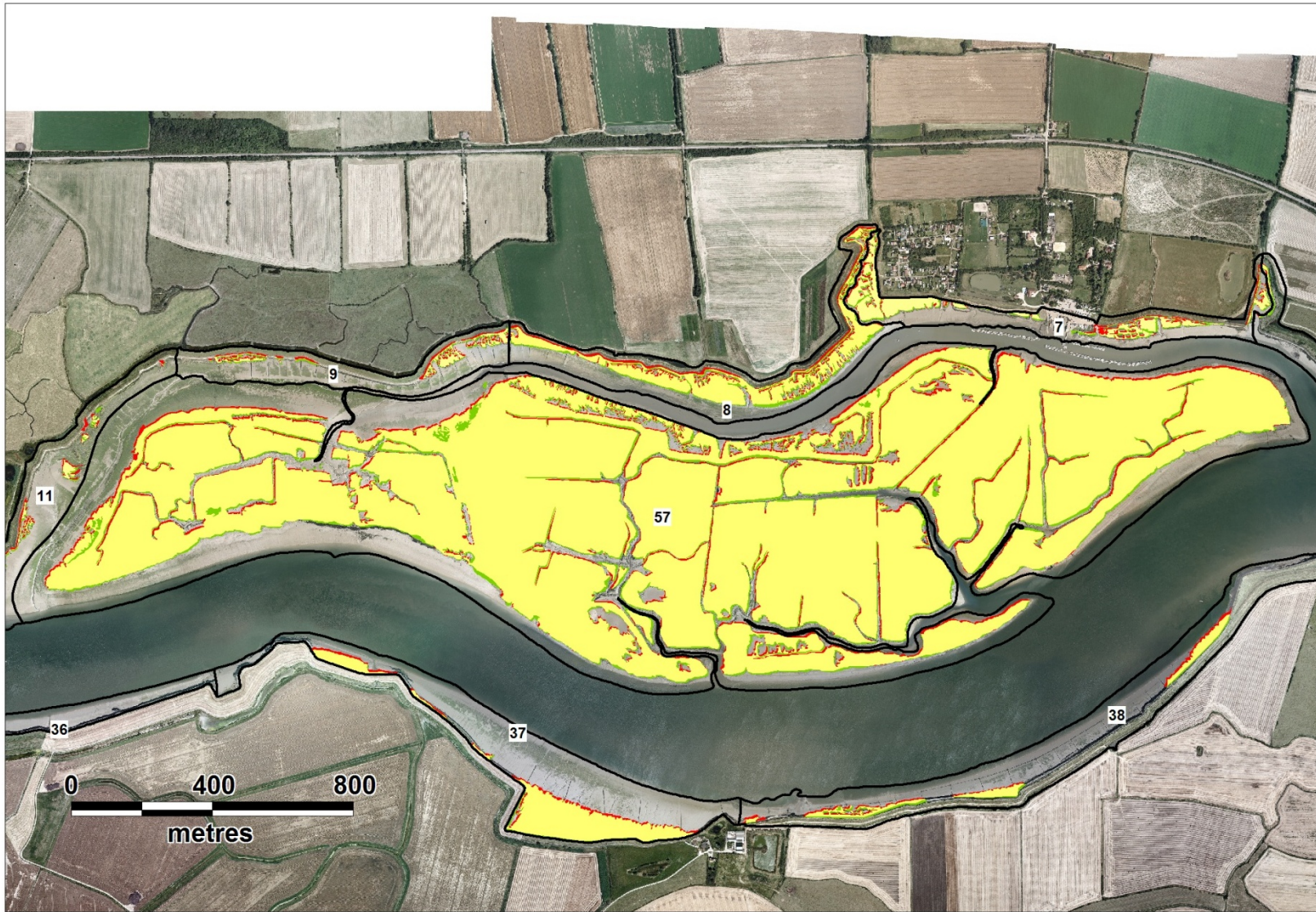
Map 70. Unit 52 Crouch & Roach SSSI.



Map 71. Unit 53 & 54 Crouch & Roach SSSI.



Map 72. Unit 56 Crouch & Roach SSSI.



Map 73. Unit 57 Crouch & Roach SSSI.

6. DENGIE



Map 74. Dengie SSSI. Location of Management Units



Map 76.



Map 76. Unit 6 Dengie SSSI



Map 77. Unit 7 Dengie SSSI



Map 78. Unit 8 Dengie SSSI

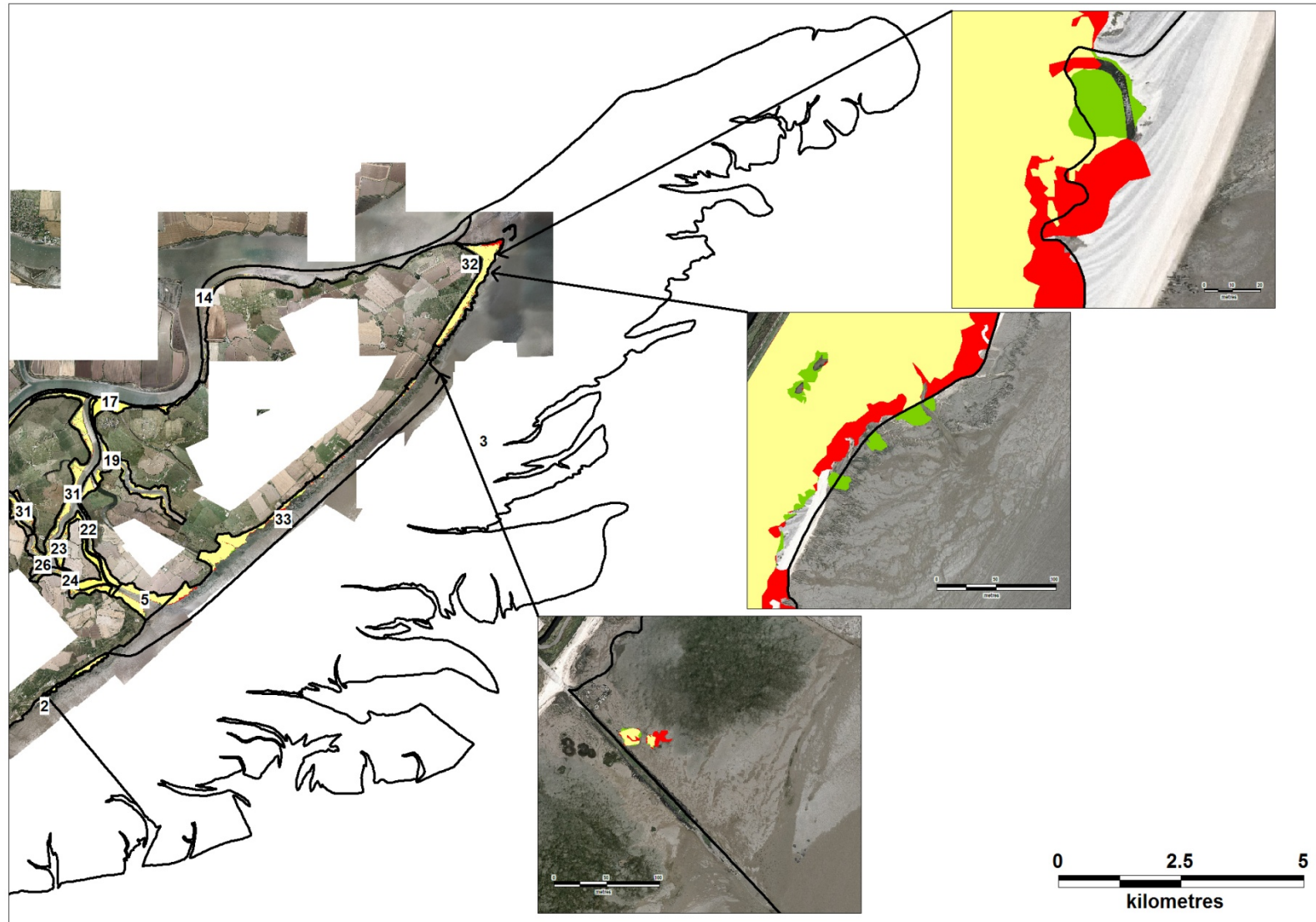
7. FOULNESS



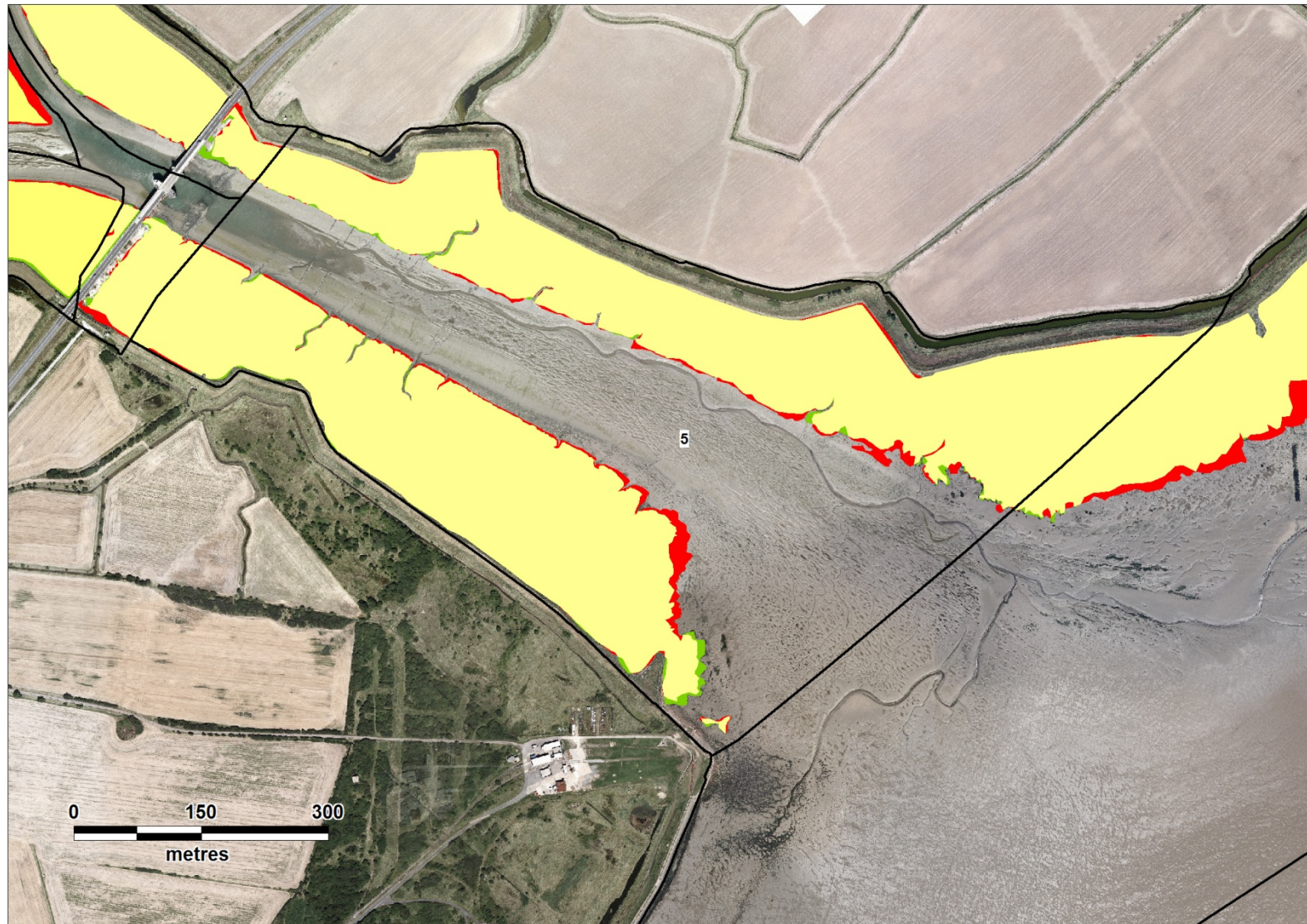
Map 79. Foulness SSSI. Location of Management Units.



Map 80. Unit 3 Dengie SSSI.



Map 81. Unit 3 Foulness SSSI



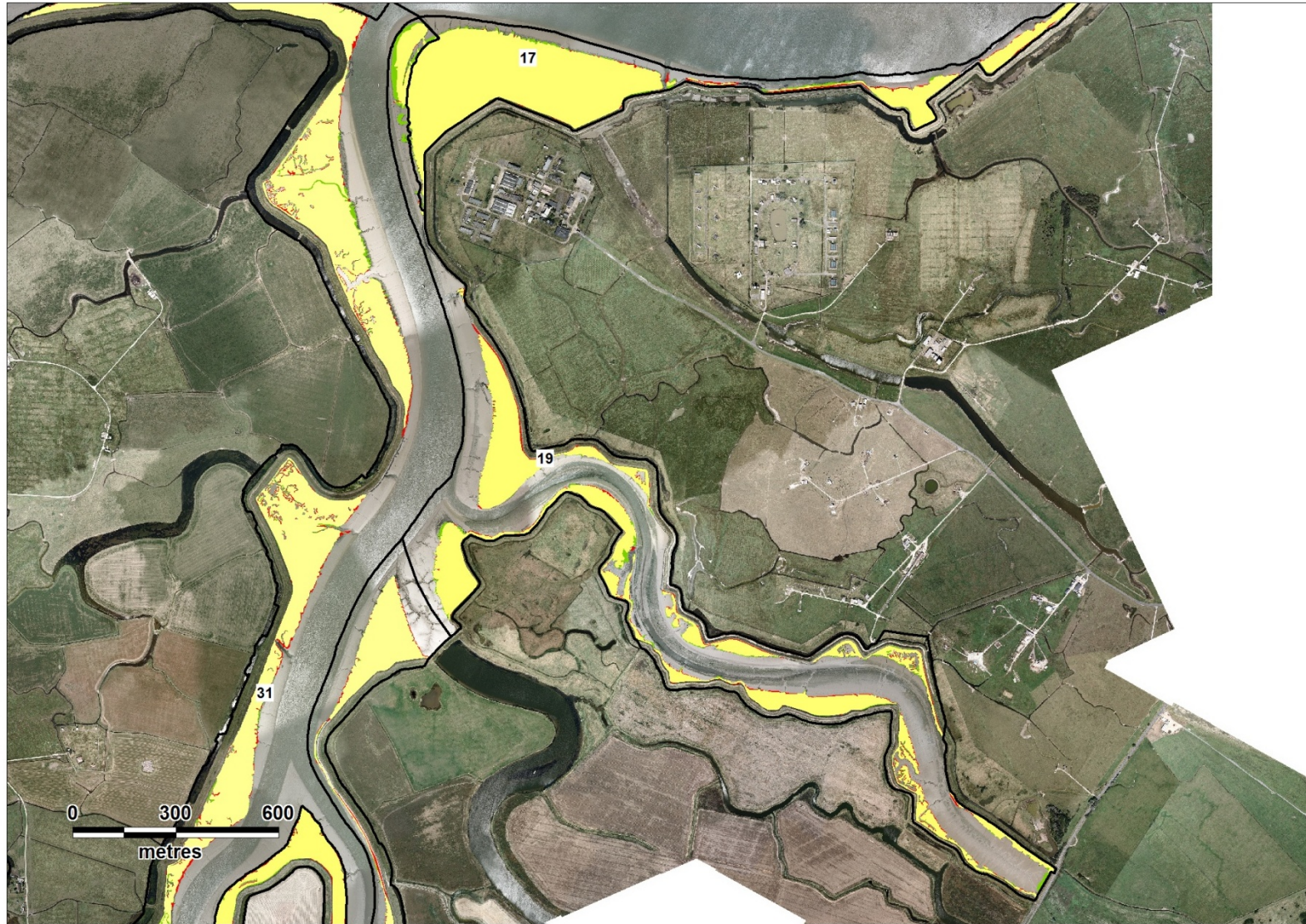
Map 82. Unit 5 Foulness SSSI



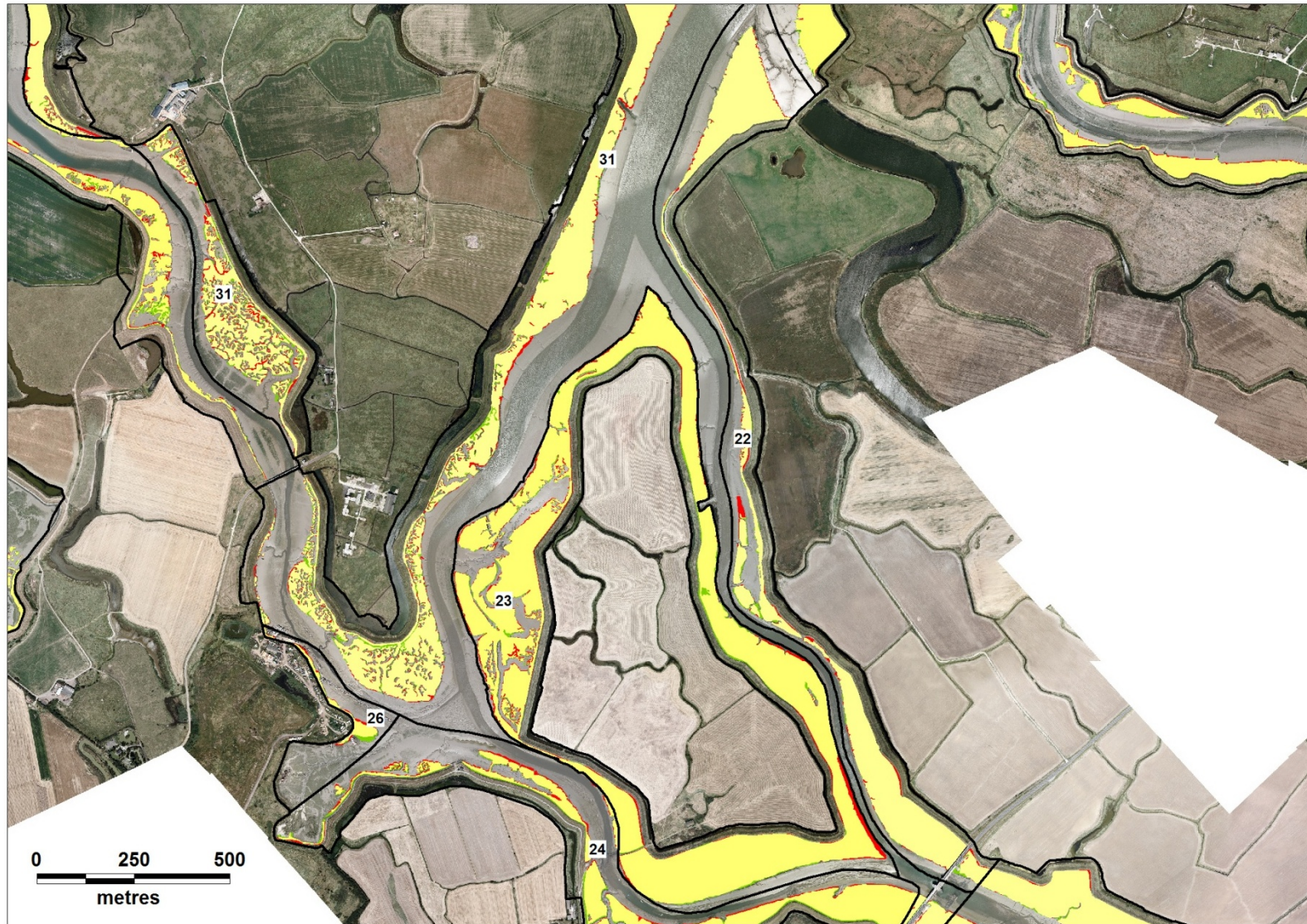
Map 83. Unit 14 Foulness SSSI



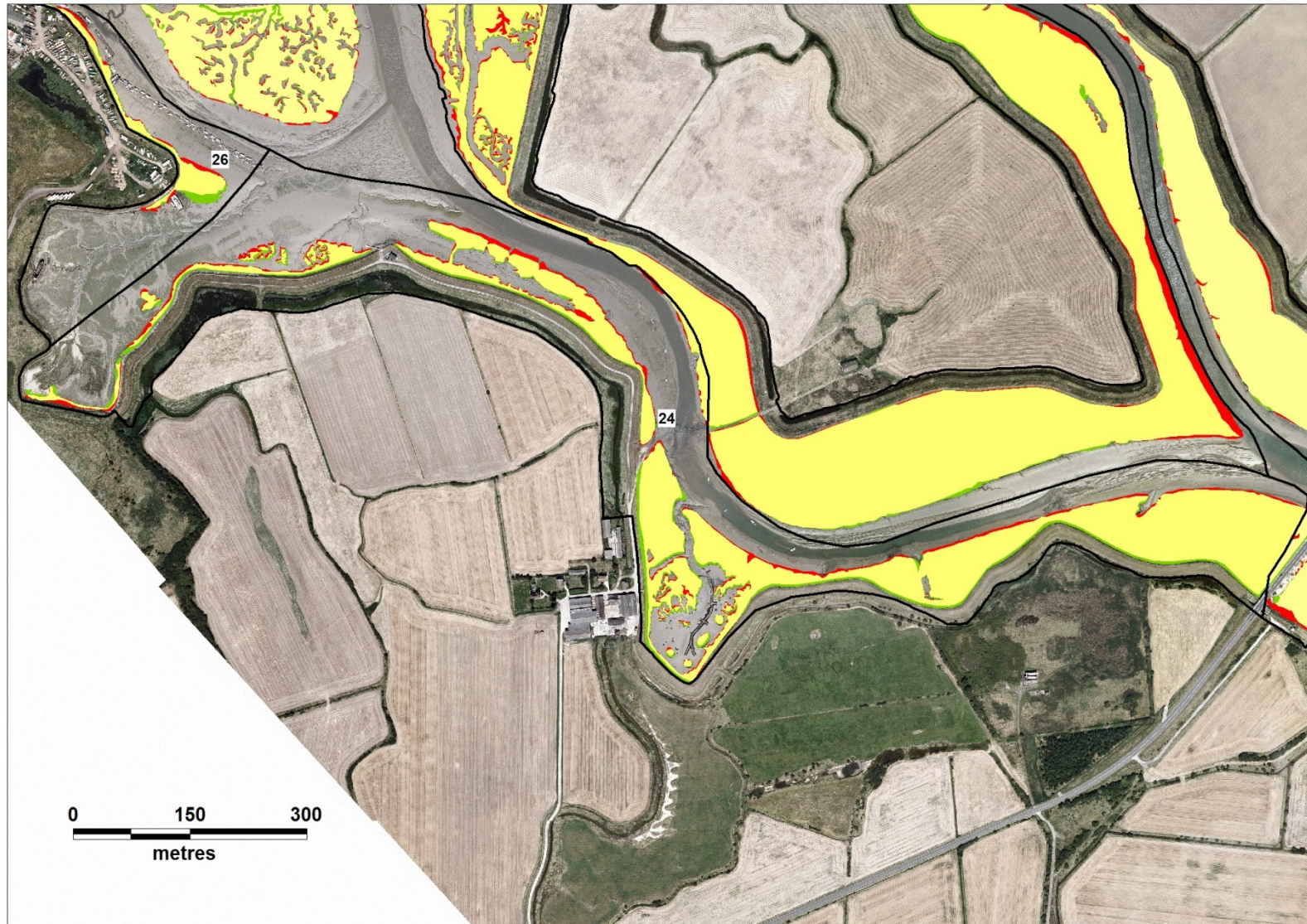
Map 84. Unit 17 Foulness SSSI



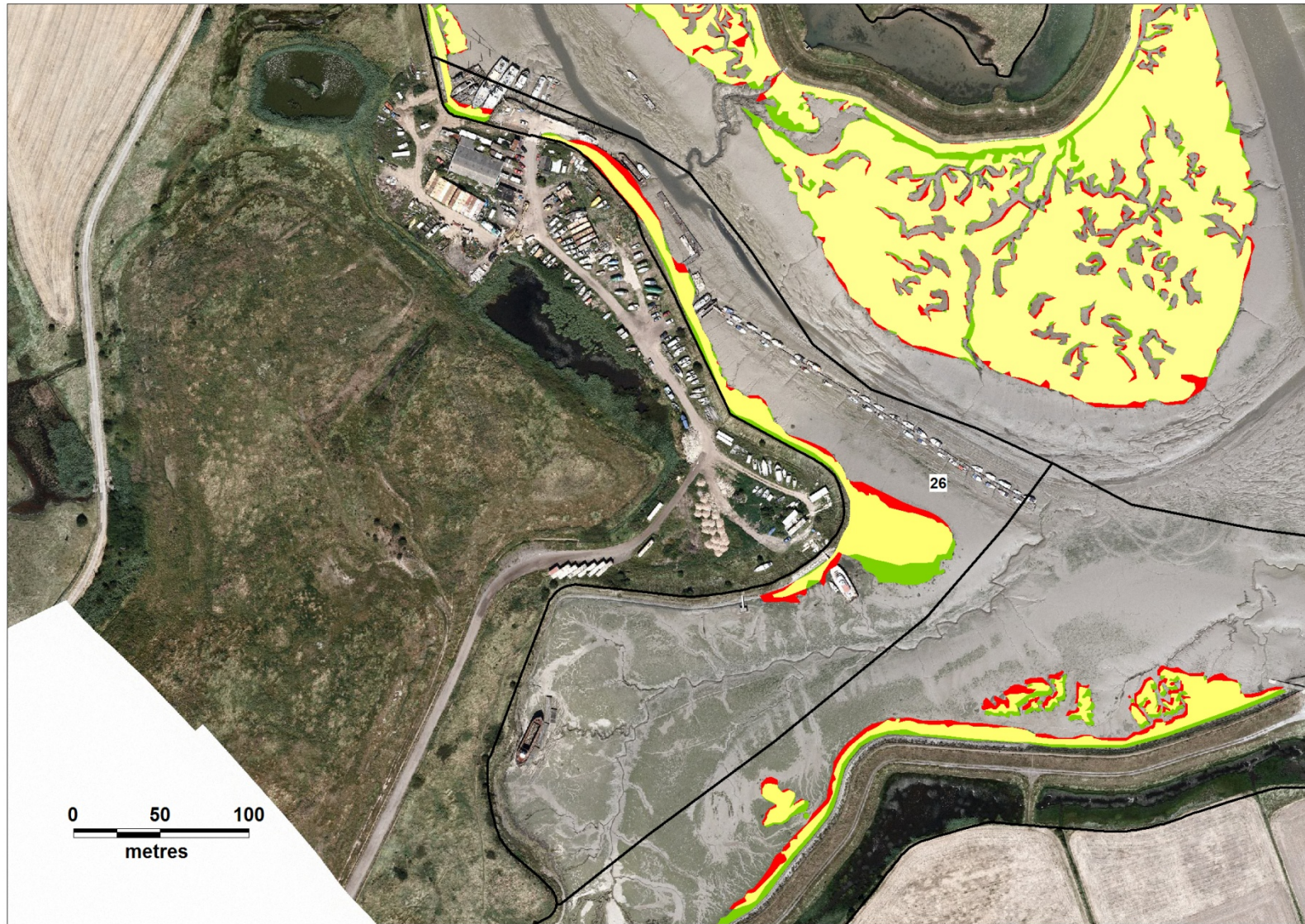
Map 85. Unit 19 Foulness SSSI.



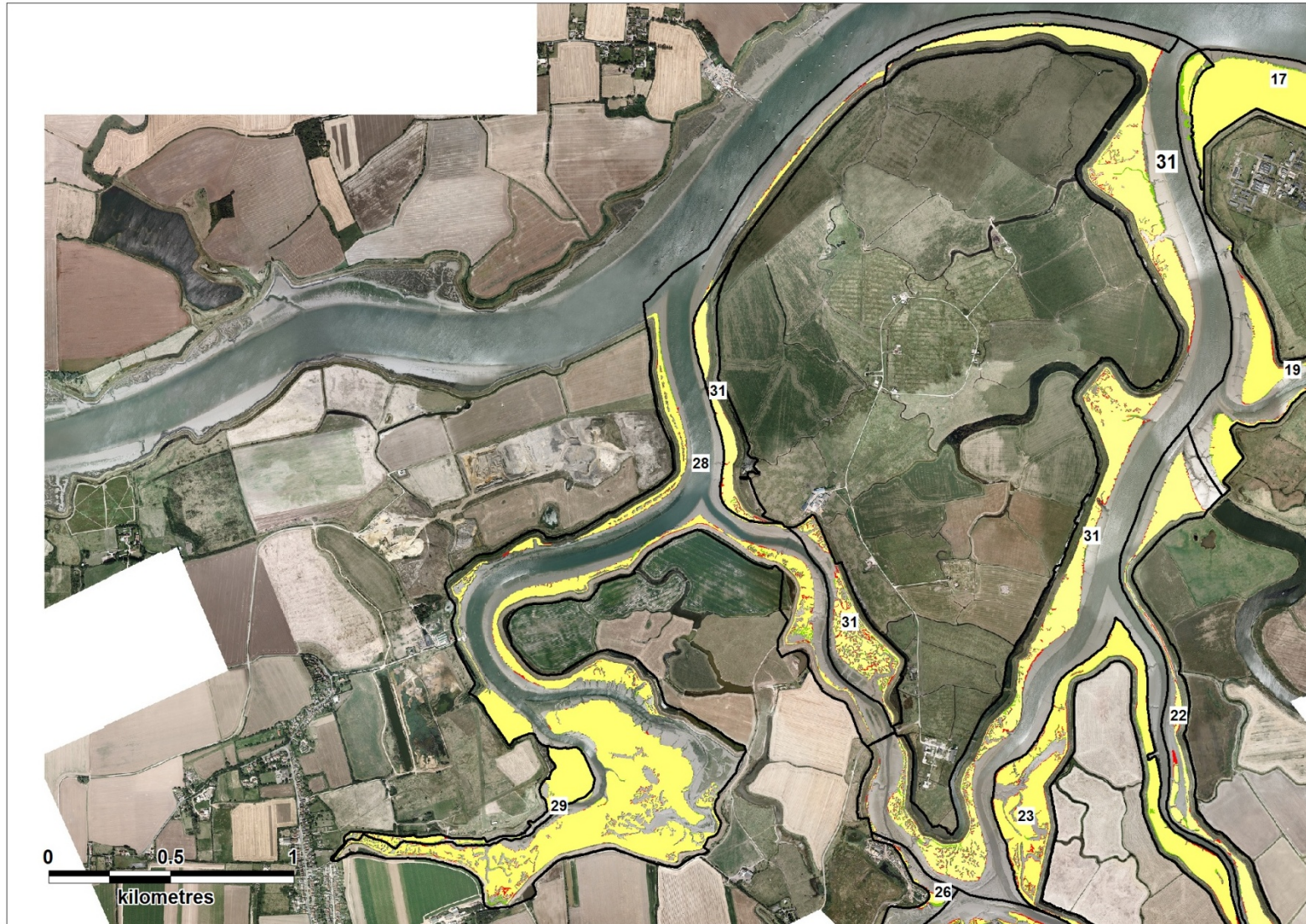
Map 86. Units 22 & 23 Foulness SSSI.



Map 87. Unit 24 Foulness SSSI.



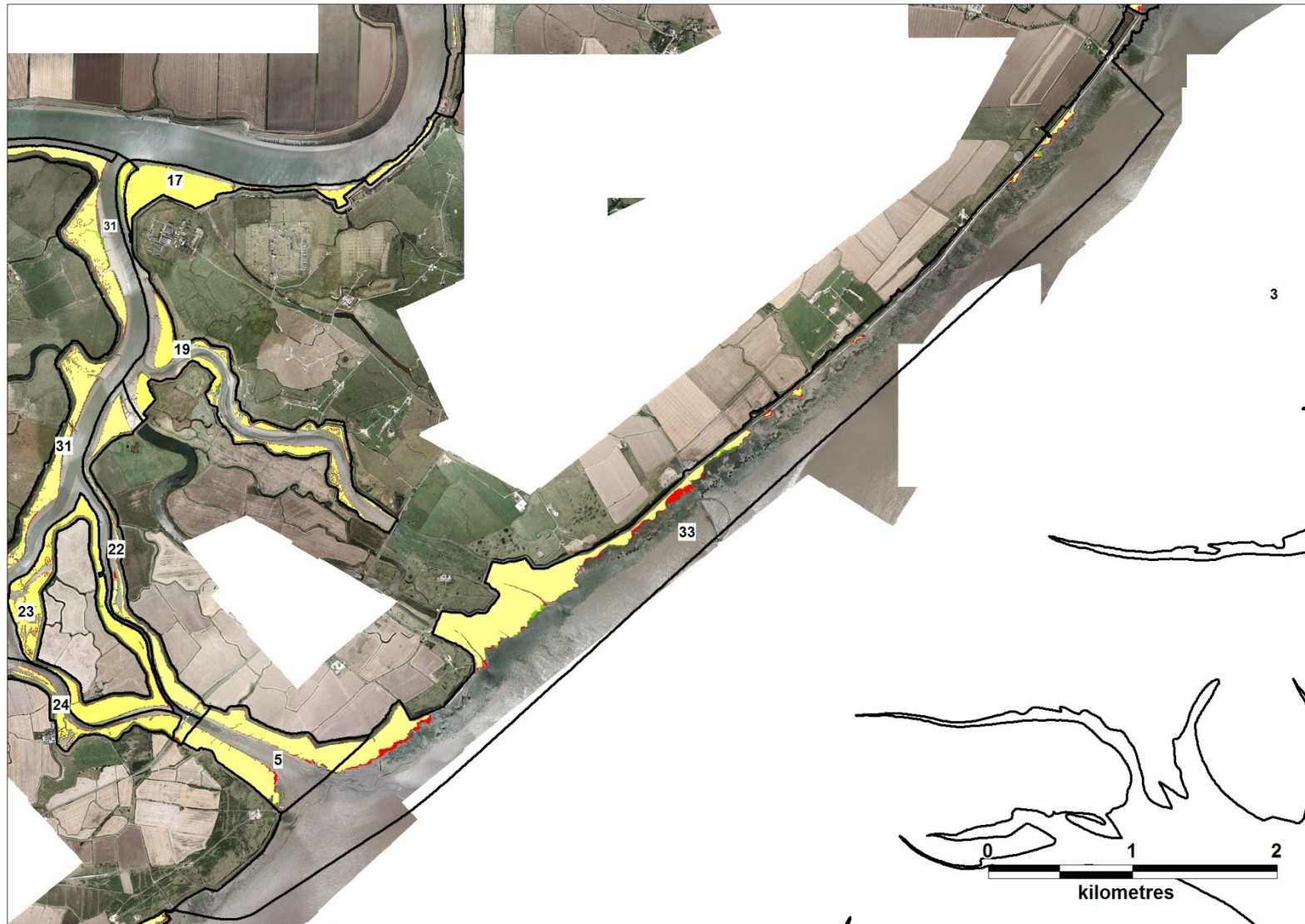
Map 88. Unit 26 Foulness SSSI.



Map 89. Unit 28, 29 & 31 Foulness SSSI.



Map 90. Unit 32 Foulness SSSI



Map 91. Unit 33 Dengie SSSI

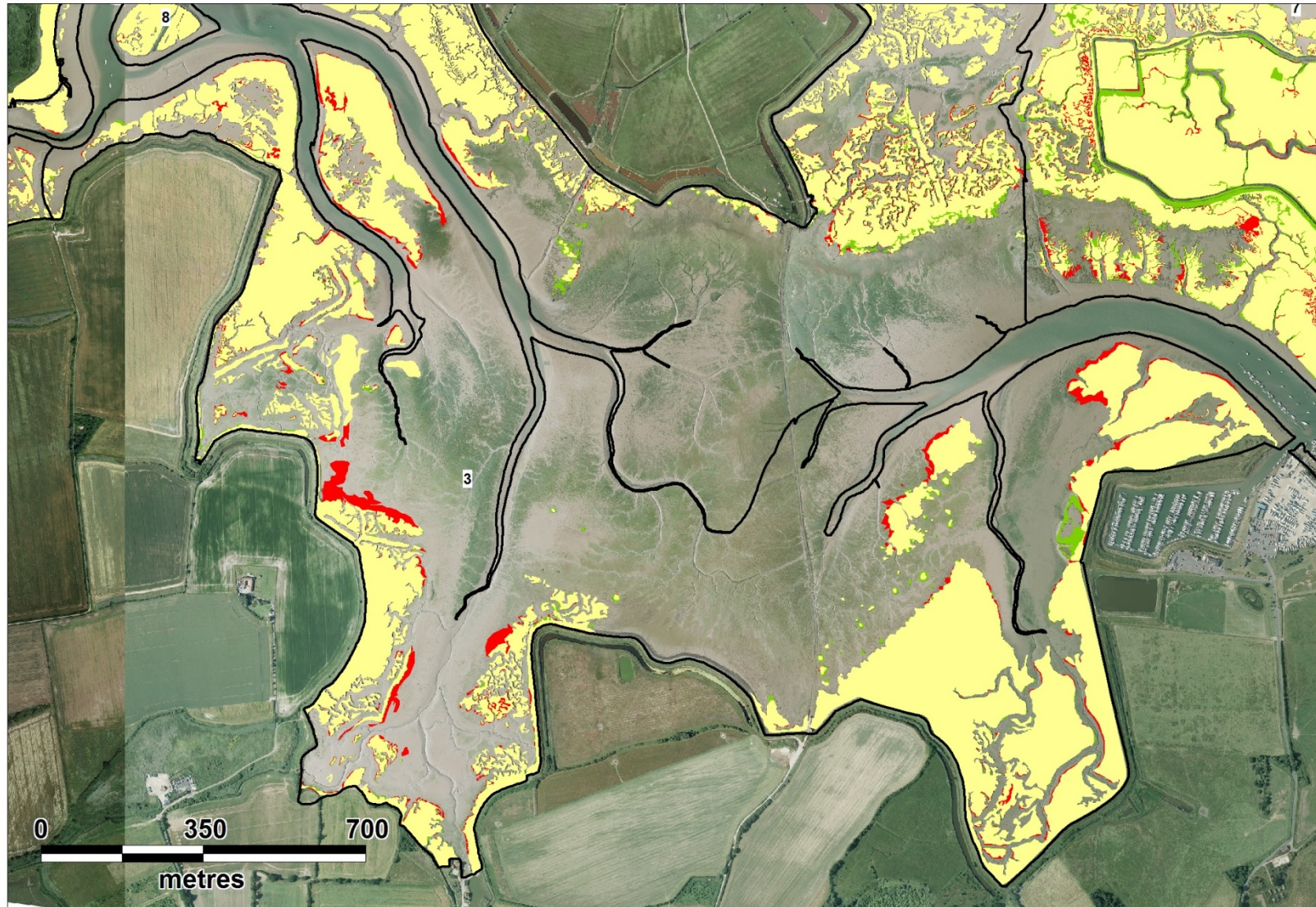
7. HAMFORD



Map 92. Hamford SSSI. Location of Management Units.



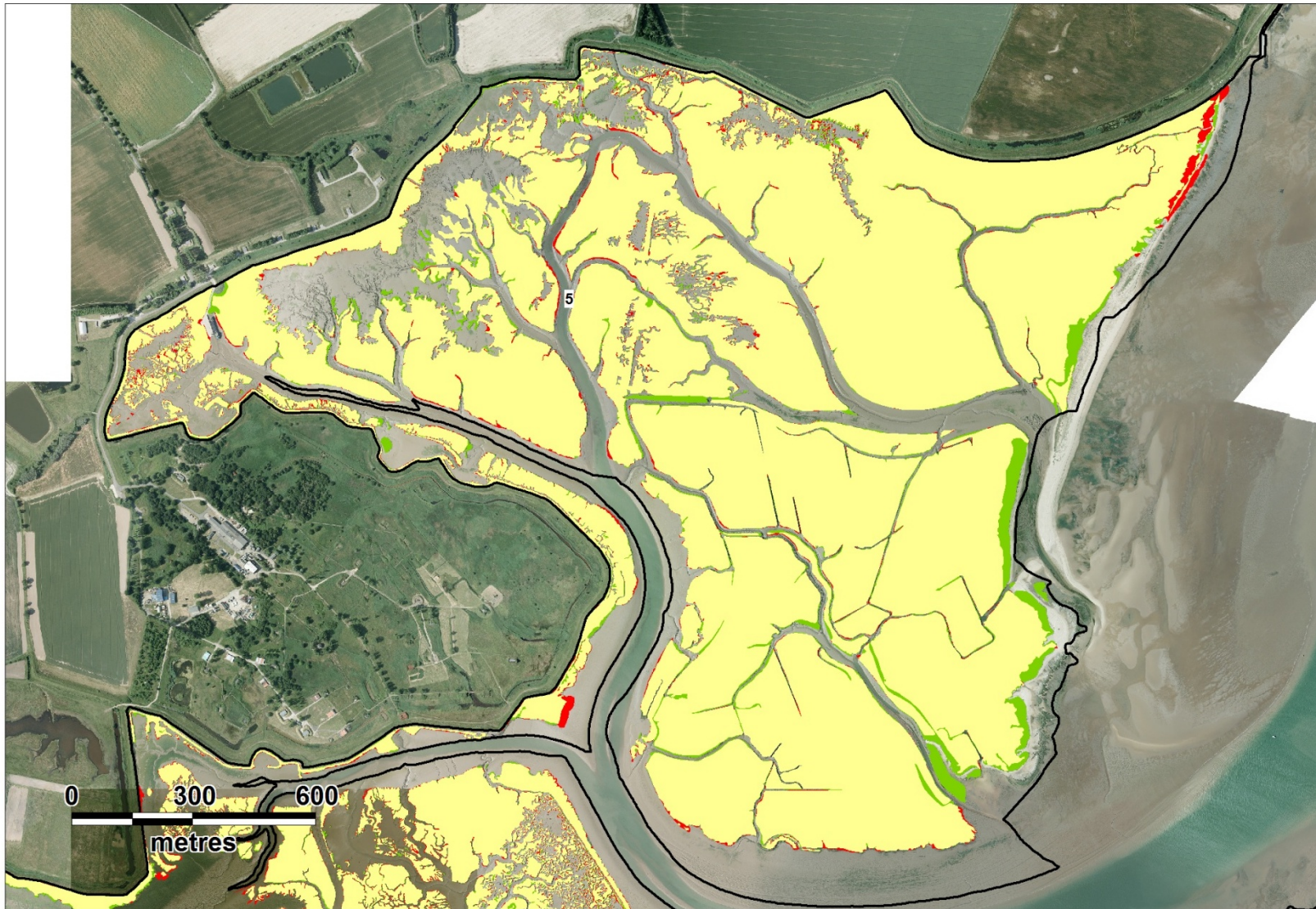
Map 93. Units 2 & 10 Hamford SSSI.



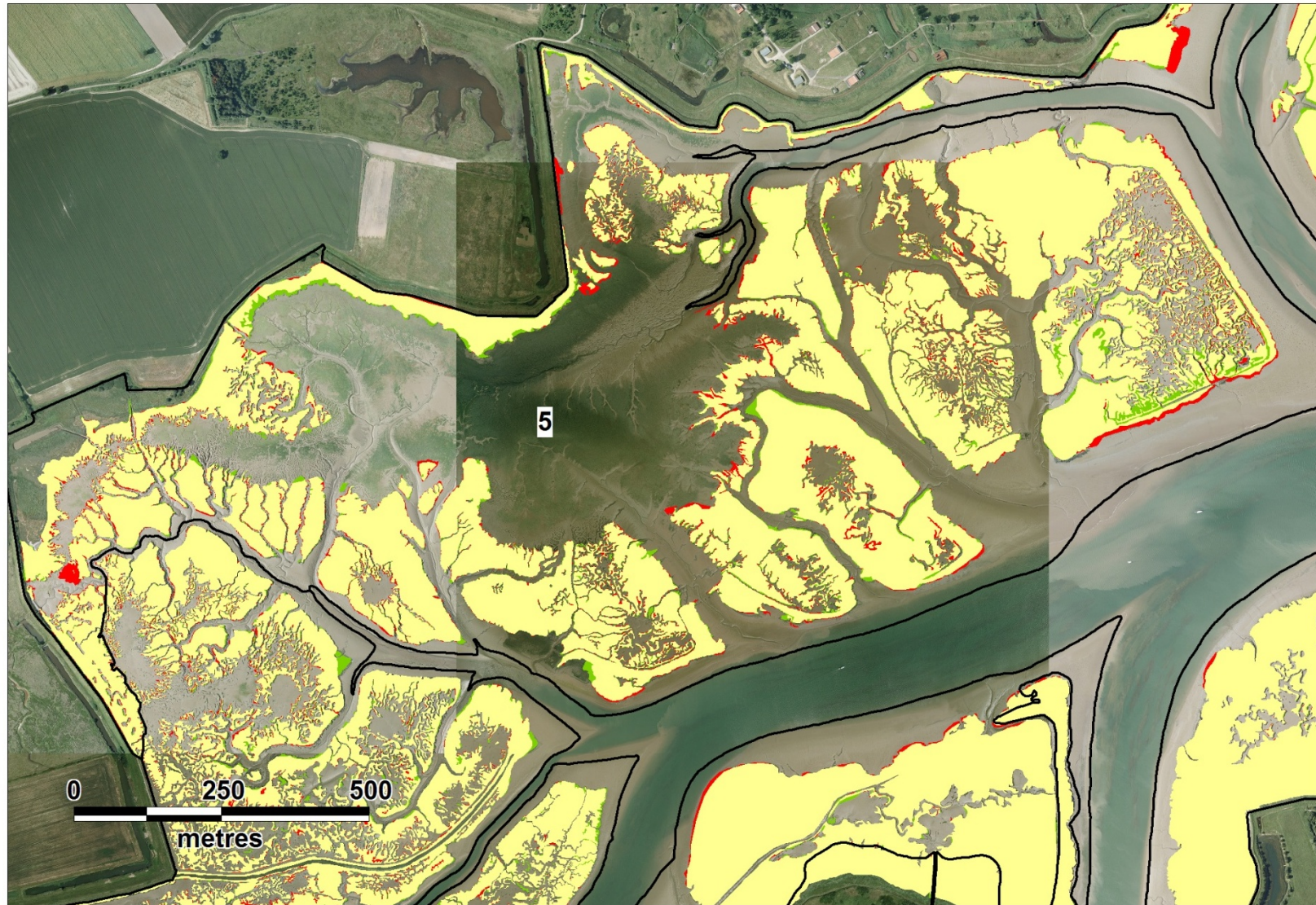
Map 94. Unit 3 Hamford SSSI.



Map 95. Unit 4 & 5 (North) Hamford SSSI.



Map 96. Unit 5 (Middle) Hamford SSSI.



Map 97. Unit 5 (South) Hamford SSSI.



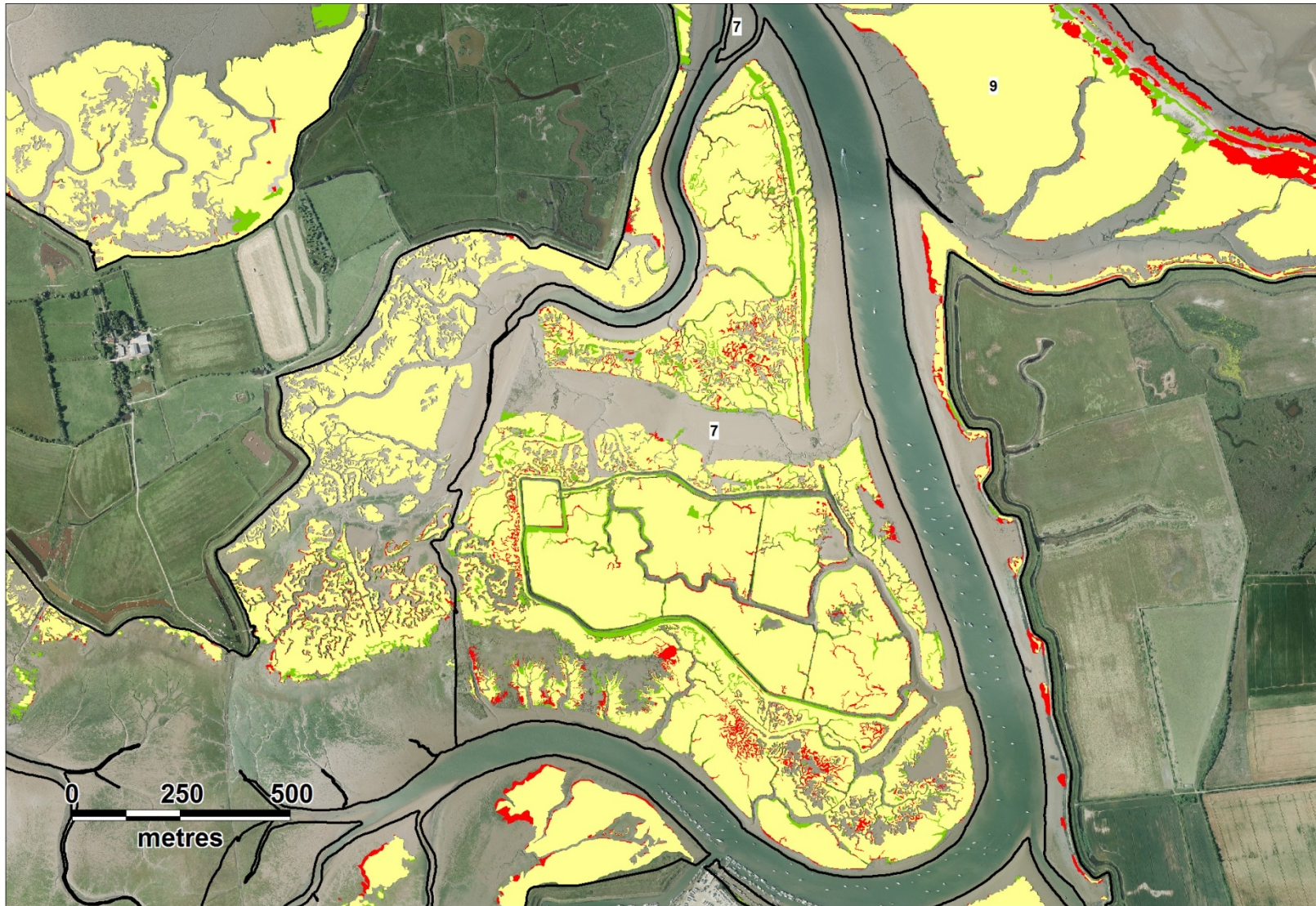
Map 98. Unit 6 (North) Hamford SSSI.



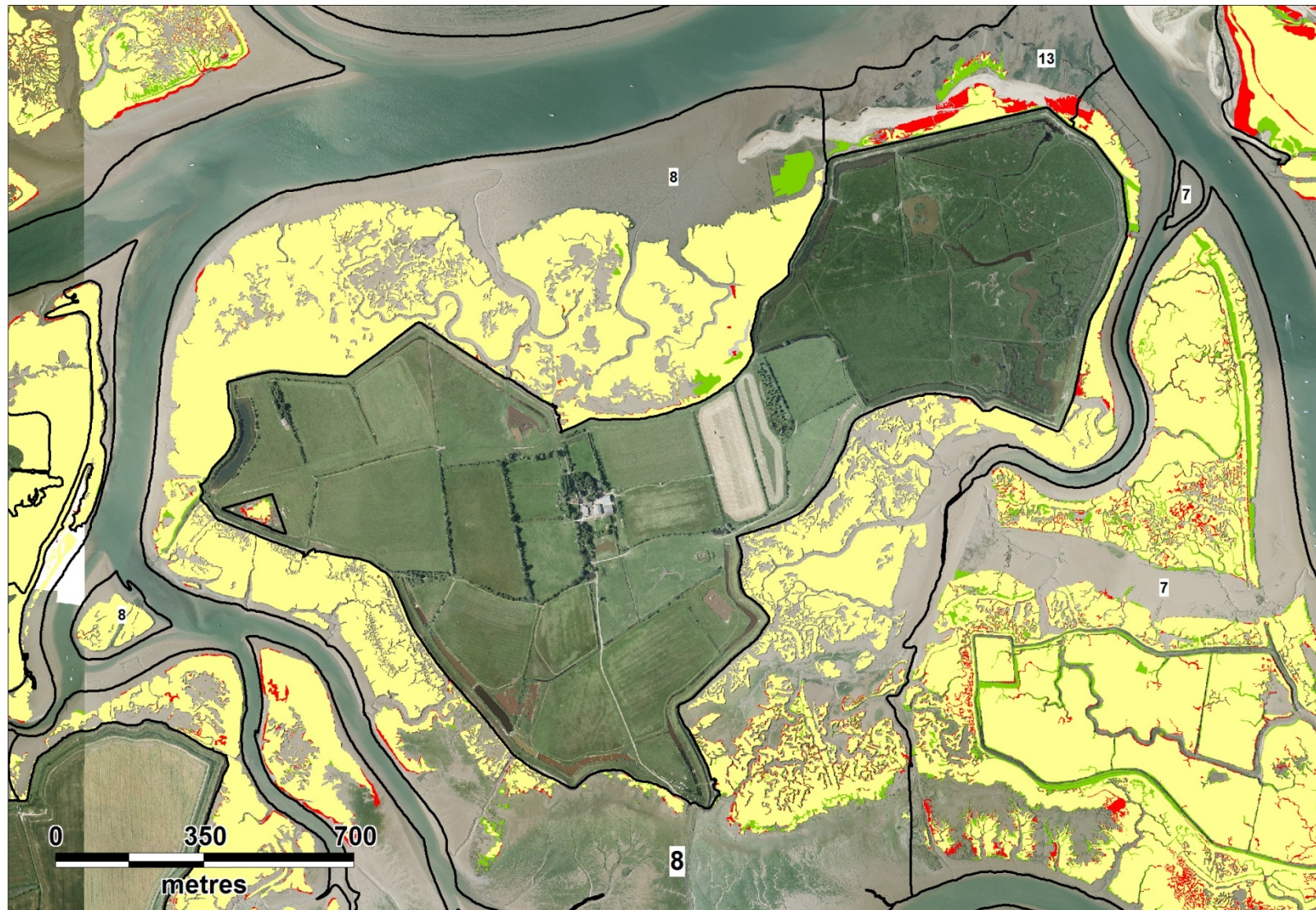
Map 99. Unit 6 (Middle) Hamford SSSI.



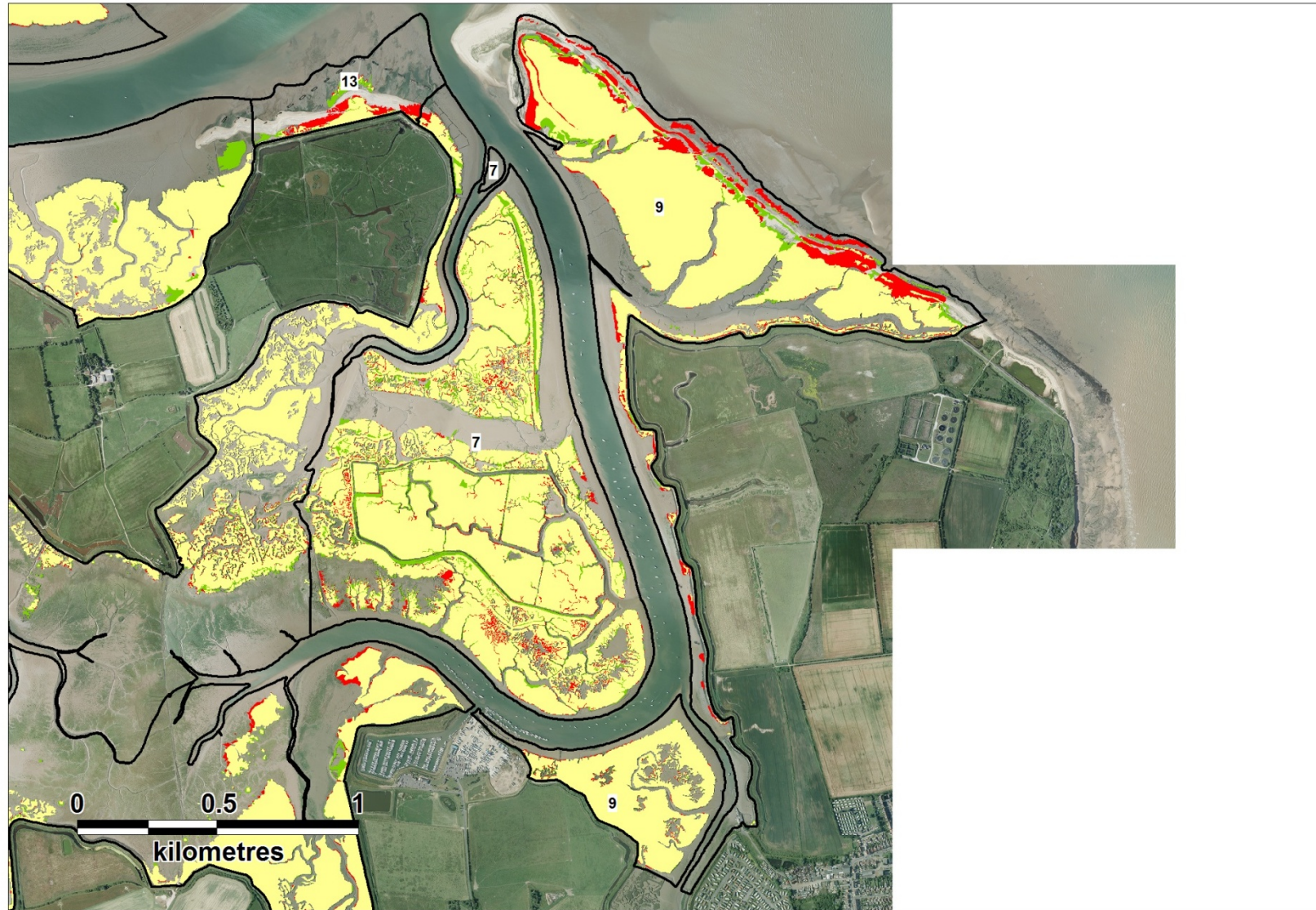
Map 100. Unit 6 (South) Hamford SSSI.



Map 101. Unit 7 Hamford SSSI.



Map 102. Units 8 & 13 Hamford SSSI.



Map 103. Unit 9 Hamford SSSI.