

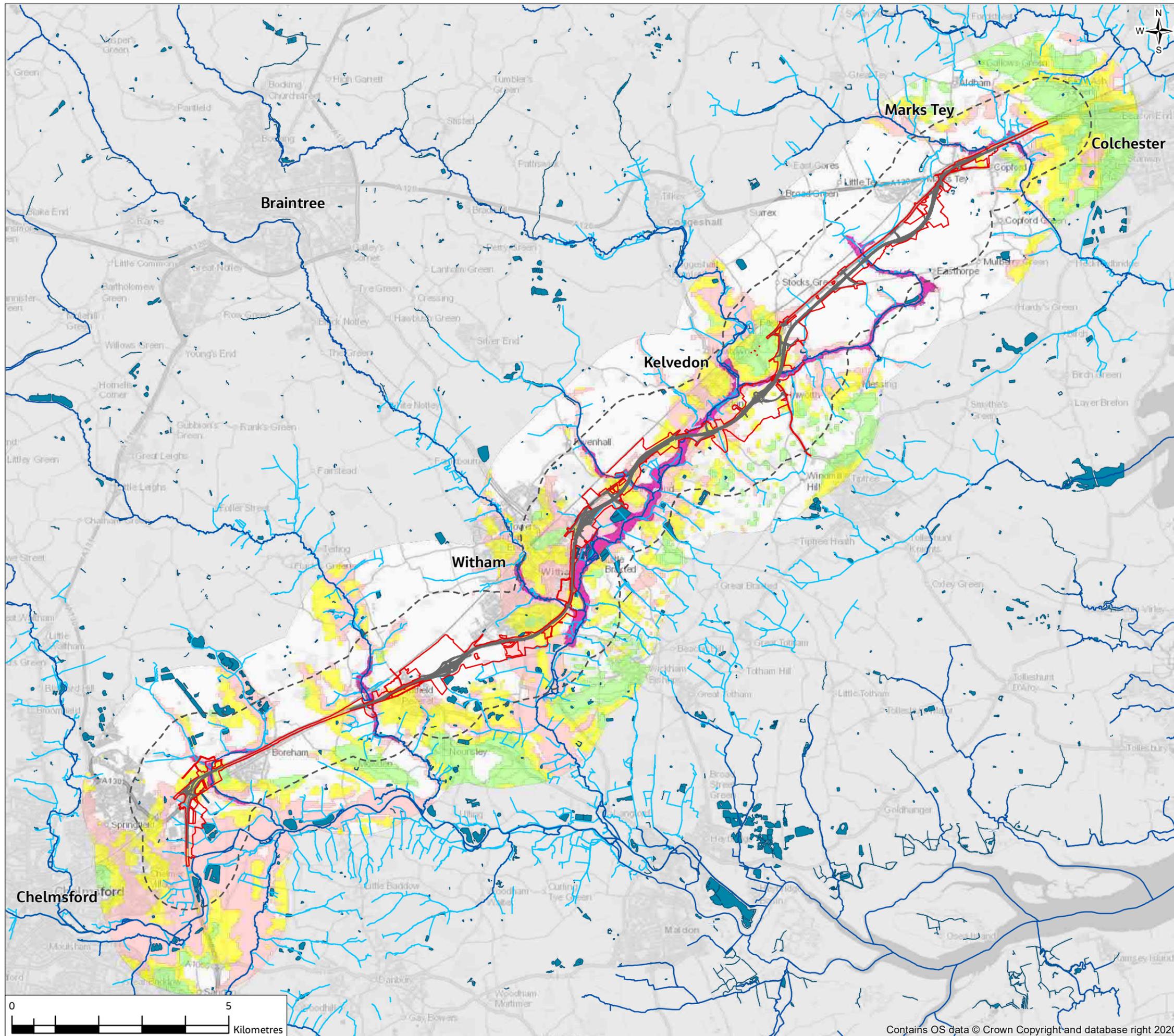
A12 Chelmsford to A120 widening scheme

**PRELIMINARY ENVIRONMENTAL
INFORMATION REPORT**

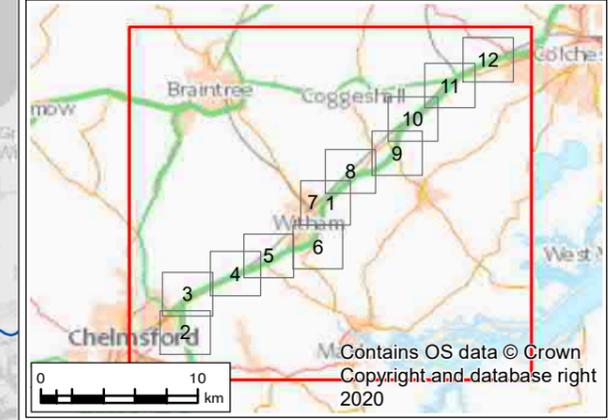
**CHAPTER 14 – ROAD DRAINAGE AND THE WATER
ENVIRONMENT**

FIGURES SECTION 3 OF 3

FIGURE 14.6



- Legend**
- Provisional Order Limits
 - Proposed Scheme
 - Study Area
 - Main River
 - Ordinary Watercourses
 - Existing Water Features (river, ponds, lakes and reservoirs)
 - Modelled main river 1% (1 in 100) AEP plus latest published Environment Agency climate change uplift (65%) extent
- BGS Susceptibility to Groundwater Flooding**
- Very Low
 - Moderate
 - Very High
 - Data not acquired
 - Not considered to be prone to groundwater flooding



PO1	18/05/21	For consultation	JC	CW	DS	SG
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Client



Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

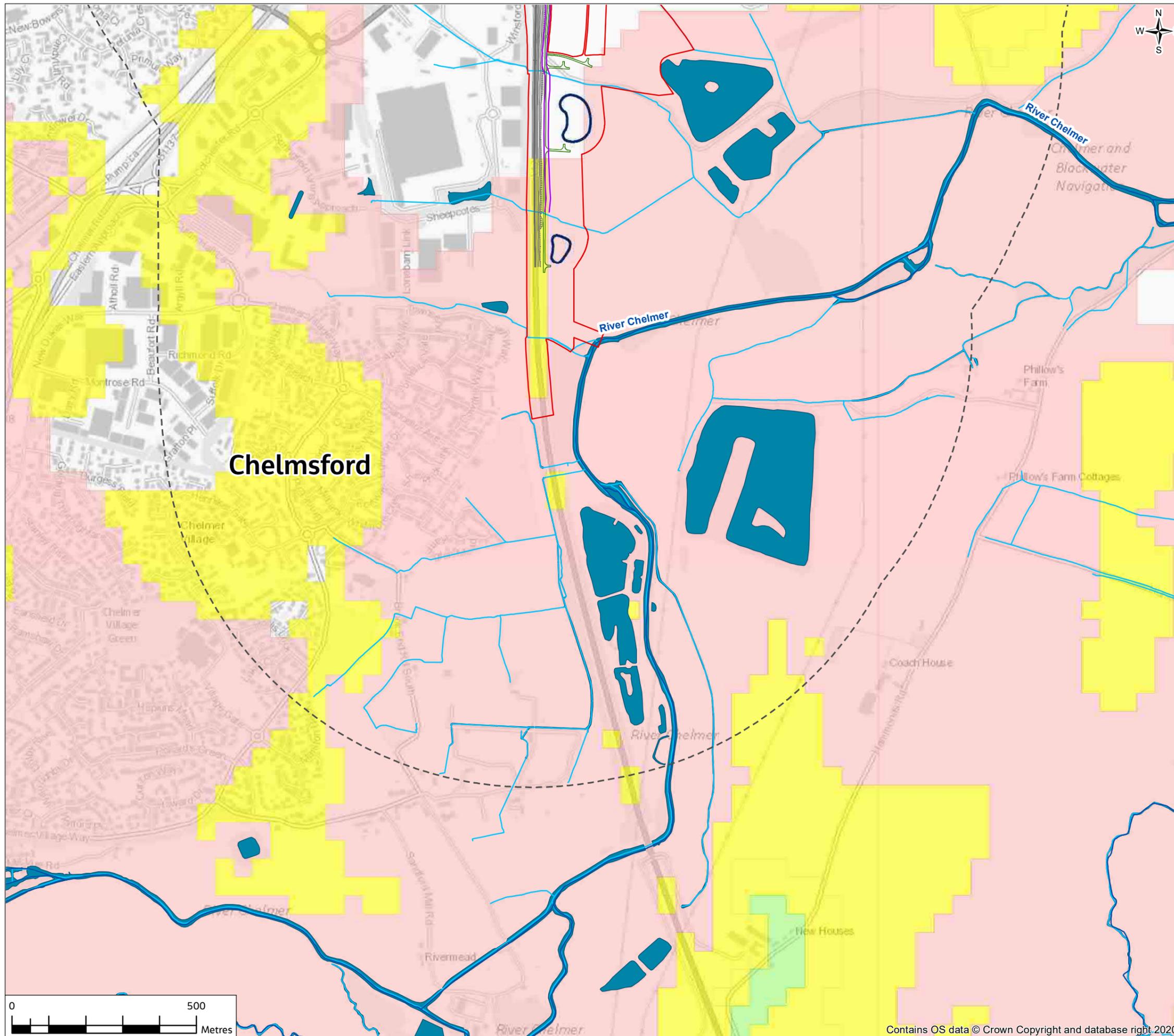
Drawing Title

PEIR
EXISTING GROUNDWATER FLOOD RISK
SHEET 1 OF 12

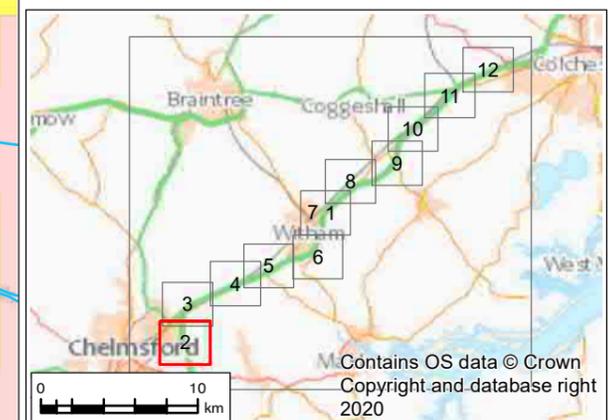
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Client No.	HE551497		
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HE551497-JAC-EWE-SCHW-SK-GI-0136			

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FIGURE 14.6



- Legend**
- Provisional Order Limits
 - Proposed Scheme
 - Study Area
 - Cuttings and Widening deeper than or equal to 1m deep
 - Realigned Walking, Cycling and Horse Riding route
 - Indicative Haul Routes
 - Access Tracks to Proposed Drainage Ponds
 - Main River
 - Ordinary Watercourses
 - Proposed River Diversion
 - Existing Water Features (river, ponds, lakes and reservoirs)
 - Proposed drainage ponds
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 - Proposed compounds and laydown areas
 - Modelled main river 1% (1 in 100) AEP plus latest published Environment Agency climate change uplift
 - BGS Susceptibility to Groundwater Flooding Very Low
 - Moderate
 - Very High
 - Data not acquired
 - Not considered to be prone to groundwater flooding



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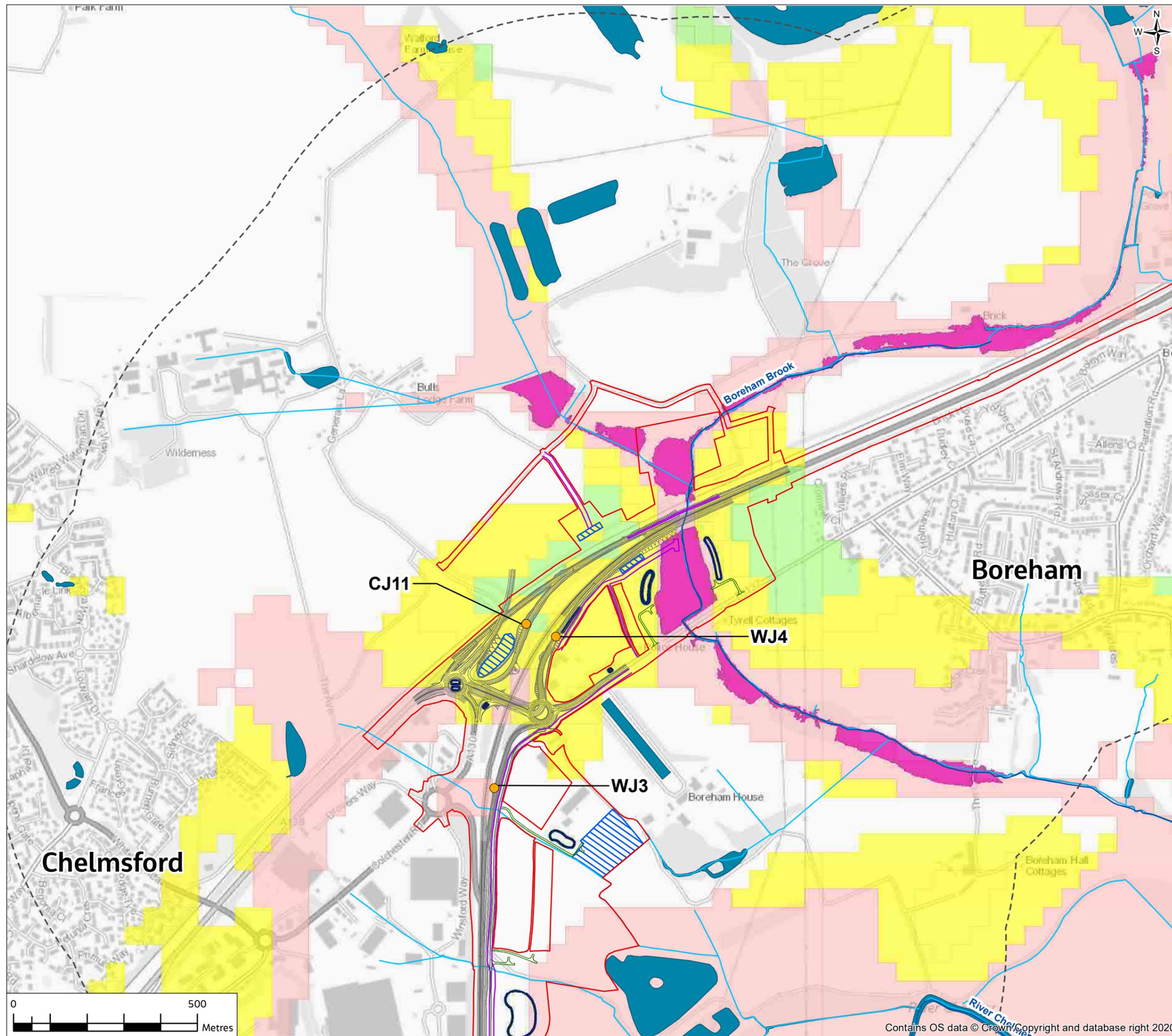
Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing Title
PEIR
EXISTING GROUNDWATER FLOOD RISK
SHEET 2 OF 12

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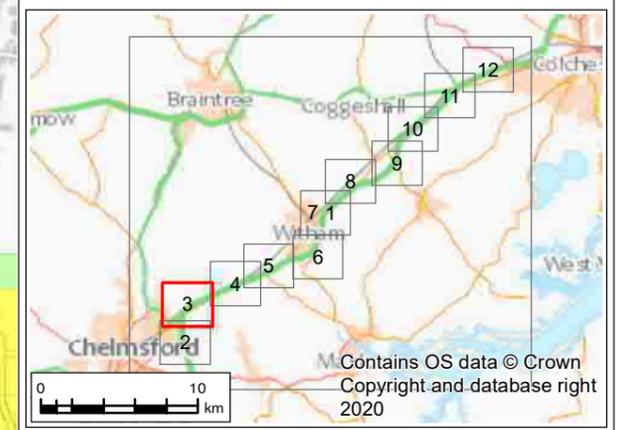


FIGURE 14.6



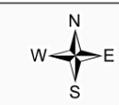
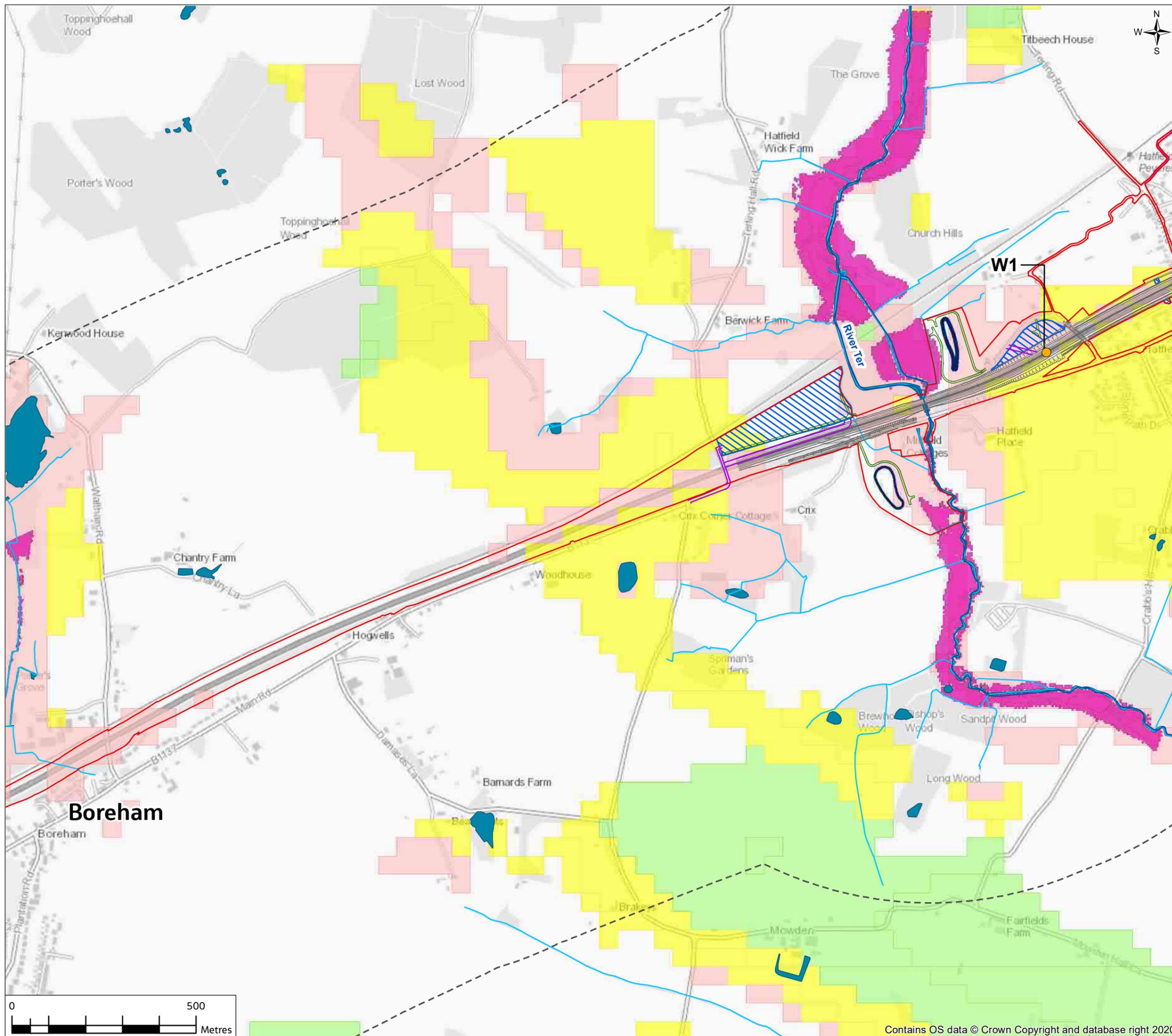
Legend

- Provisional Order Limits
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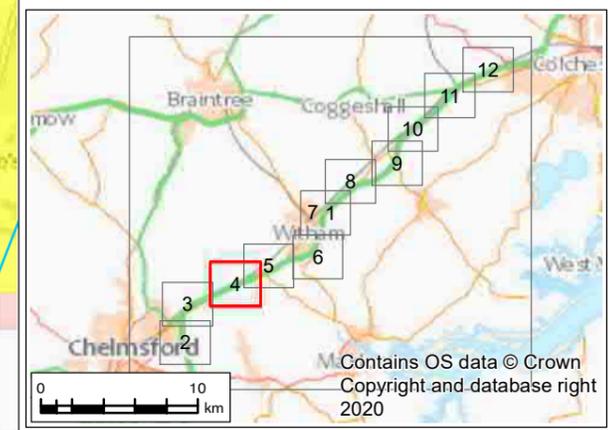


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Client No.	HE551497					P01
Drawing Number						
HE551497-JAC-EWE-SCHW-SK-GI-0138						

FIGURE 14.6



- Legend**
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A12 CHELMSFORD TO A120 WIDENING SCHEME

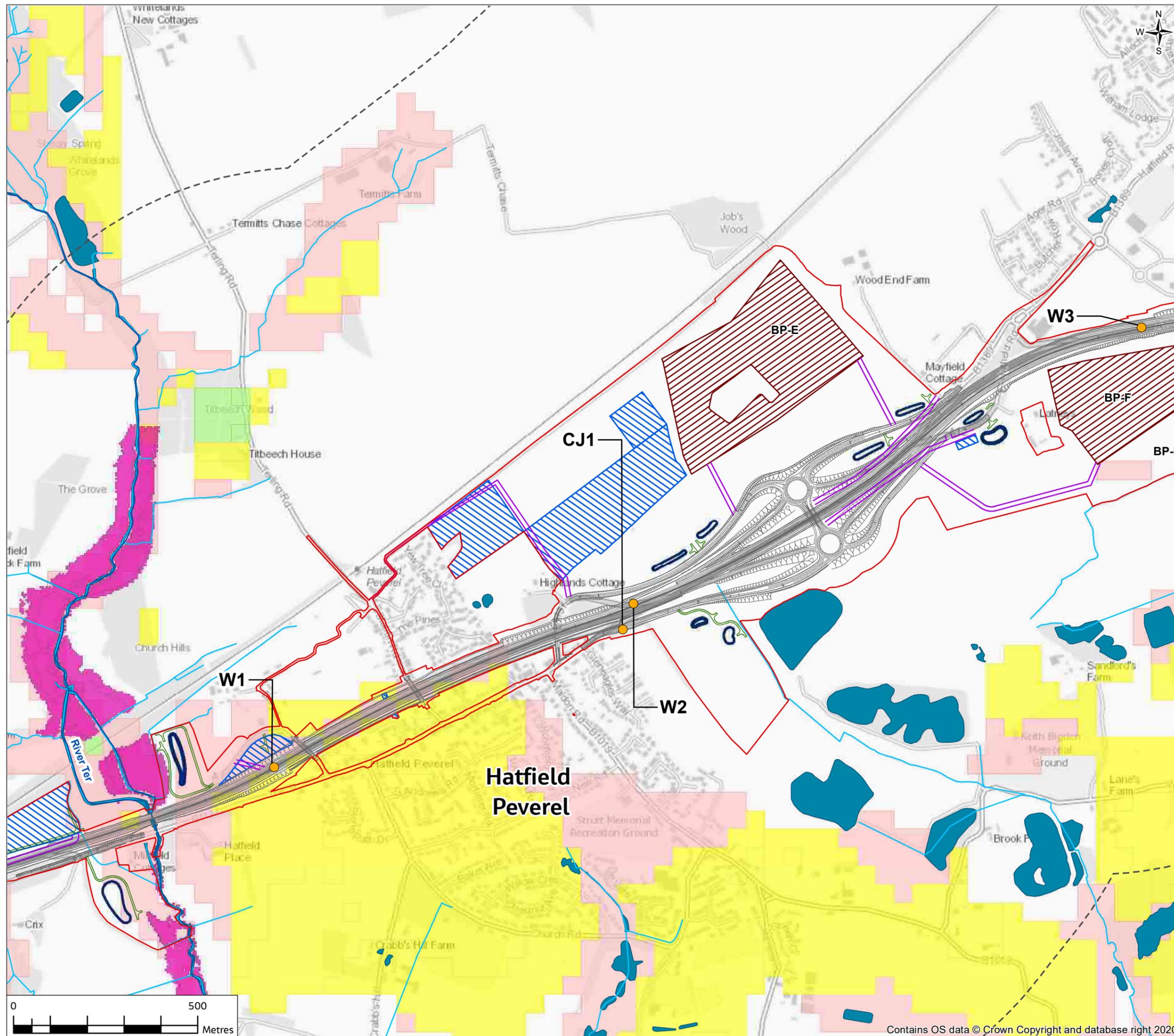
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 EXISTING GROUNDWATER FLOOD RISK
 SHEET 4 OF 12**

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Drawing Number	HE551497-JAC-EWE-SCHW-SK-GI-0139	

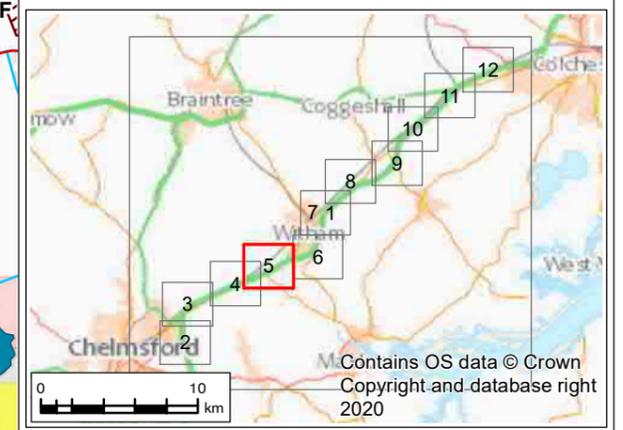


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FIGURE 14.6



- Legend**
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 - Study Area
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 - Moderate
 - Very High
 - Data not acquired
 - Not considered to be prone to groundwater flooding

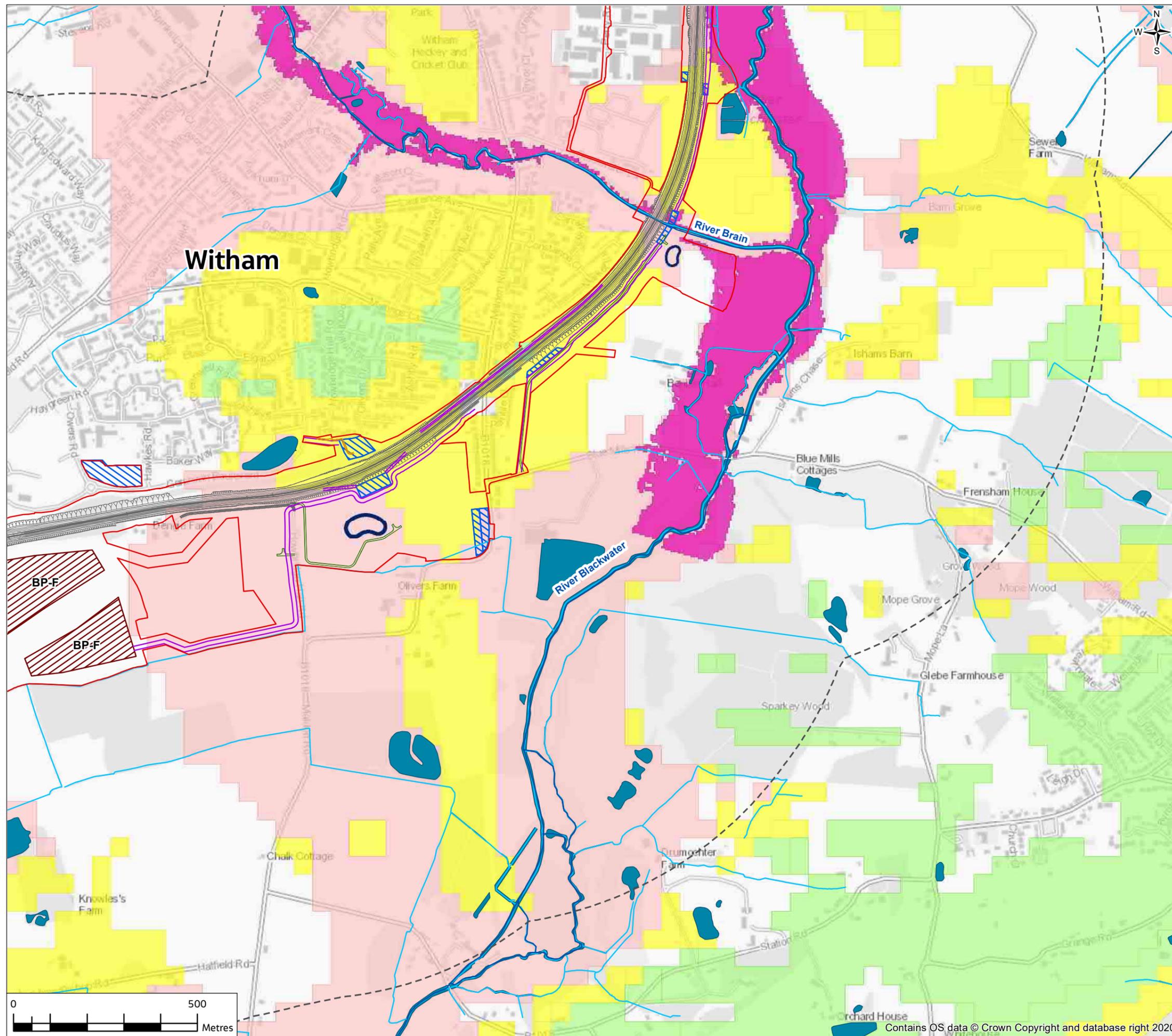


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Drawing Title						
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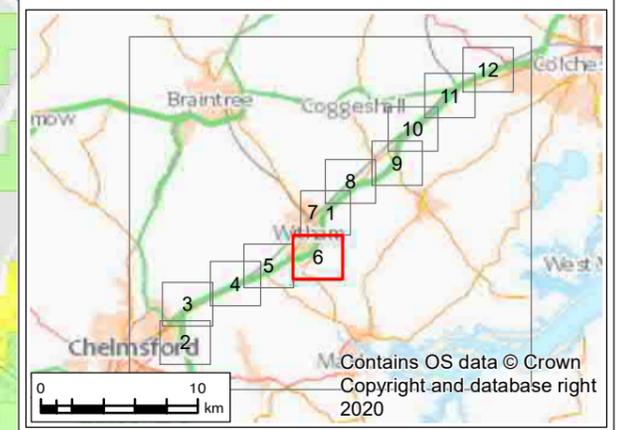
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FIGURE 14.6



Legend

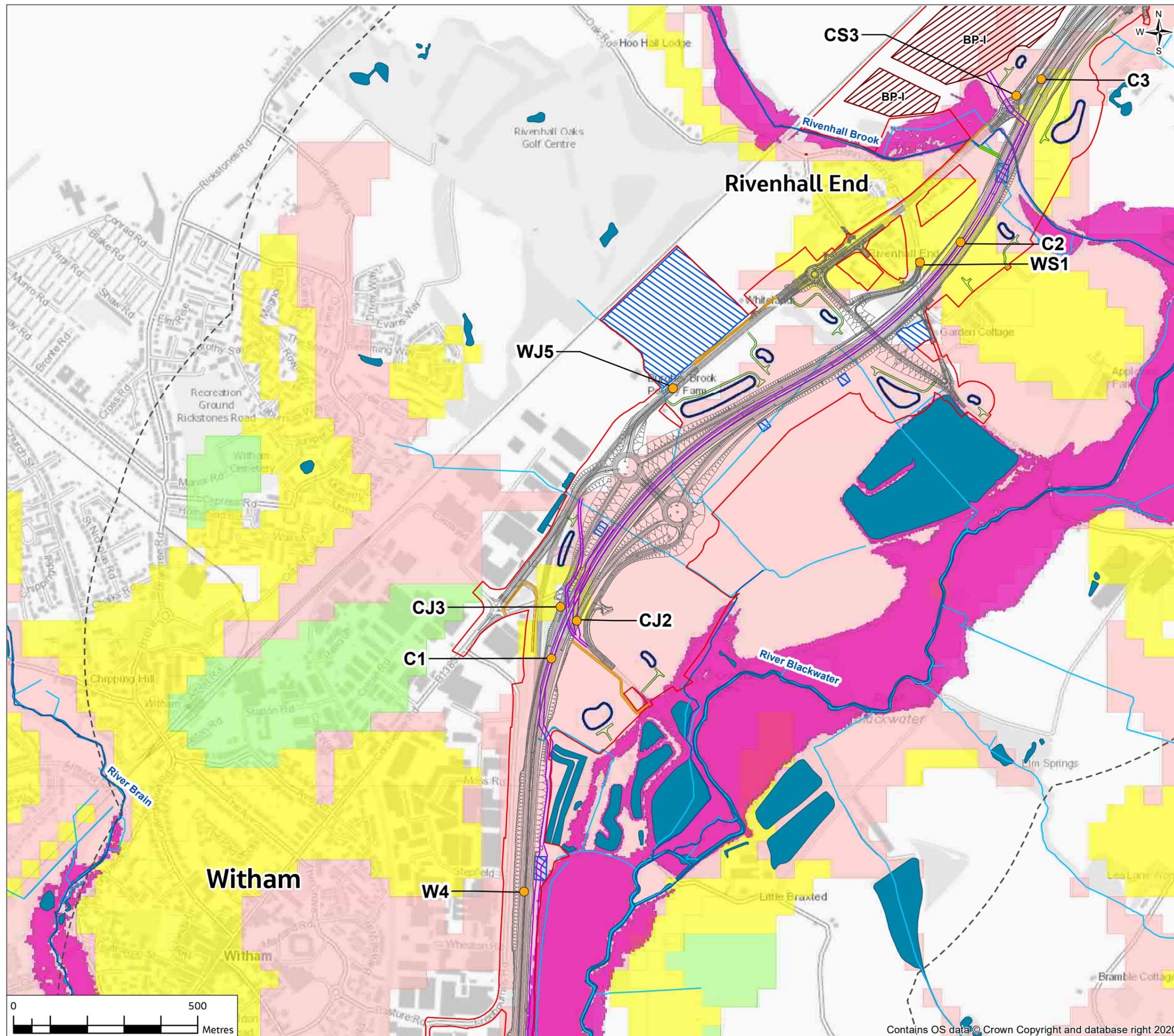
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- Proposed Scheme
- Study Area
- Cuttings and Widening deeper than or equal to 1m deep
- Realigned Walking, Cycling and Horse Riding route
- Indicative Haul Routes
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Drawing Title						
PEIR EXISTING GROUNDWATER FLOOD RISK SHEET 6 OF 12						
Drawing Status						
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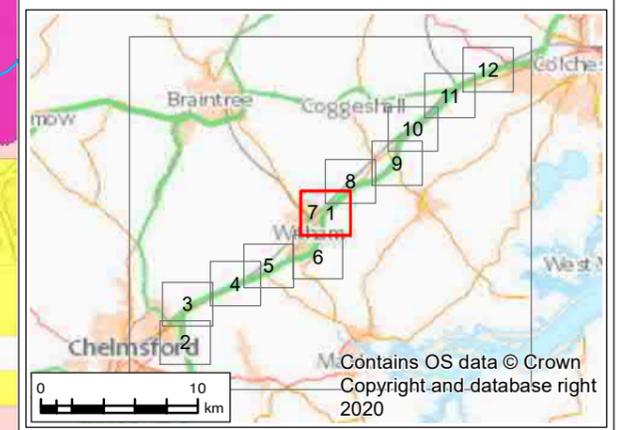
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FIGURE 14.6



Legend

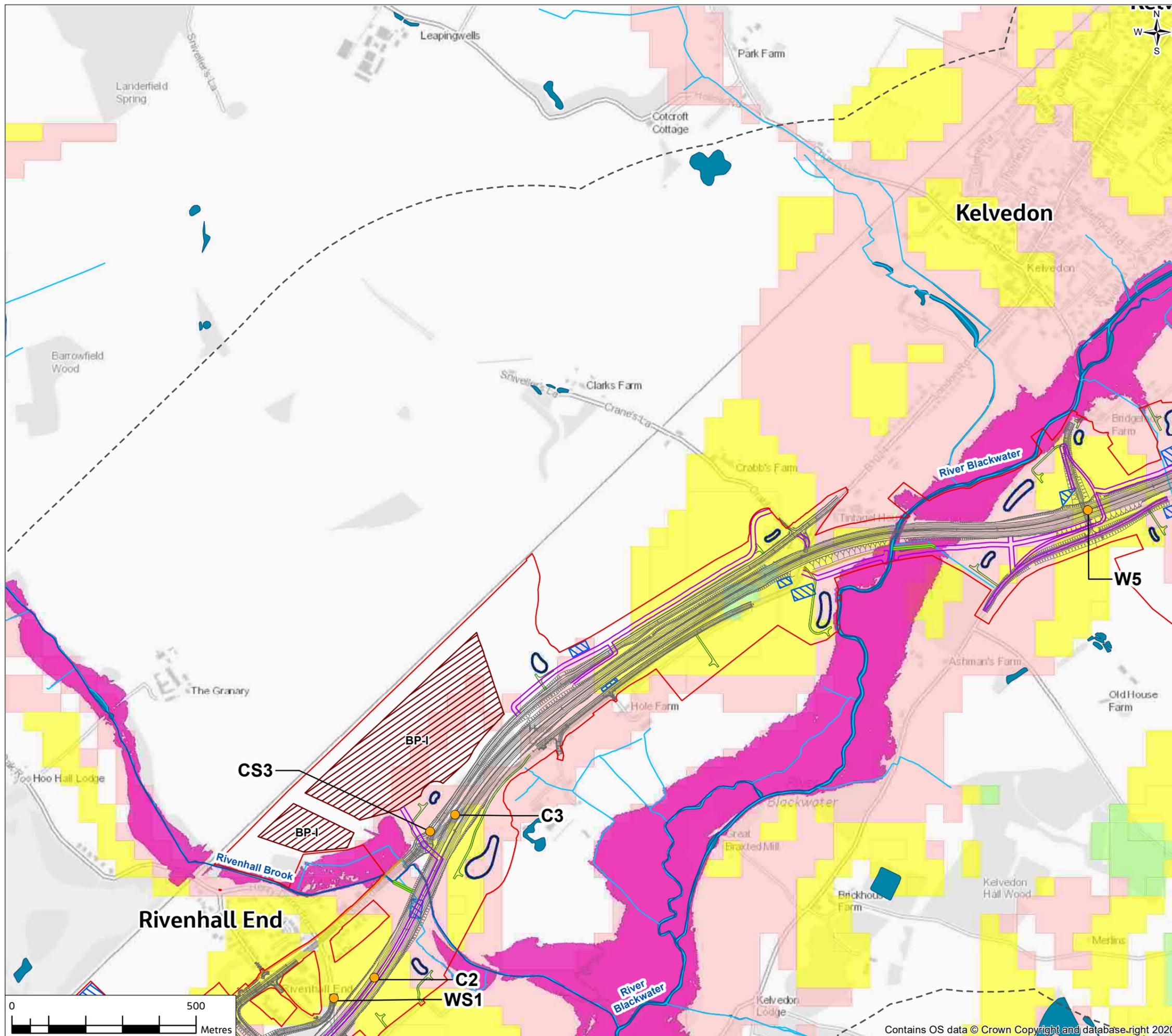
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- Study Area
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- Realigned Walking, Cycling and Horse Riding route
- Indicative Haul Routes
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Project						
A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing Title						
PEIR EXISTING GROUNDWATER FLOOD RISK SHEET 7 OF 12						
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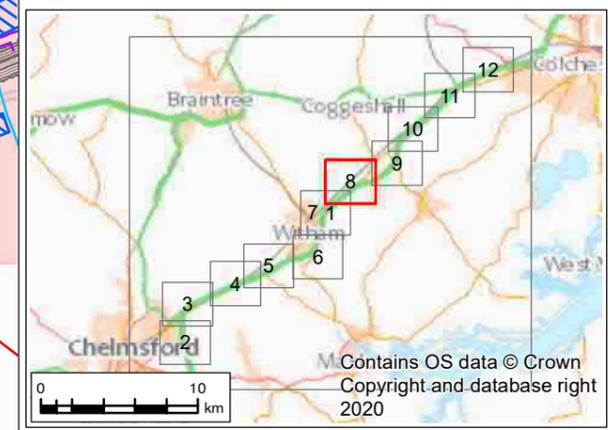


FIGURE 14.6



Legend

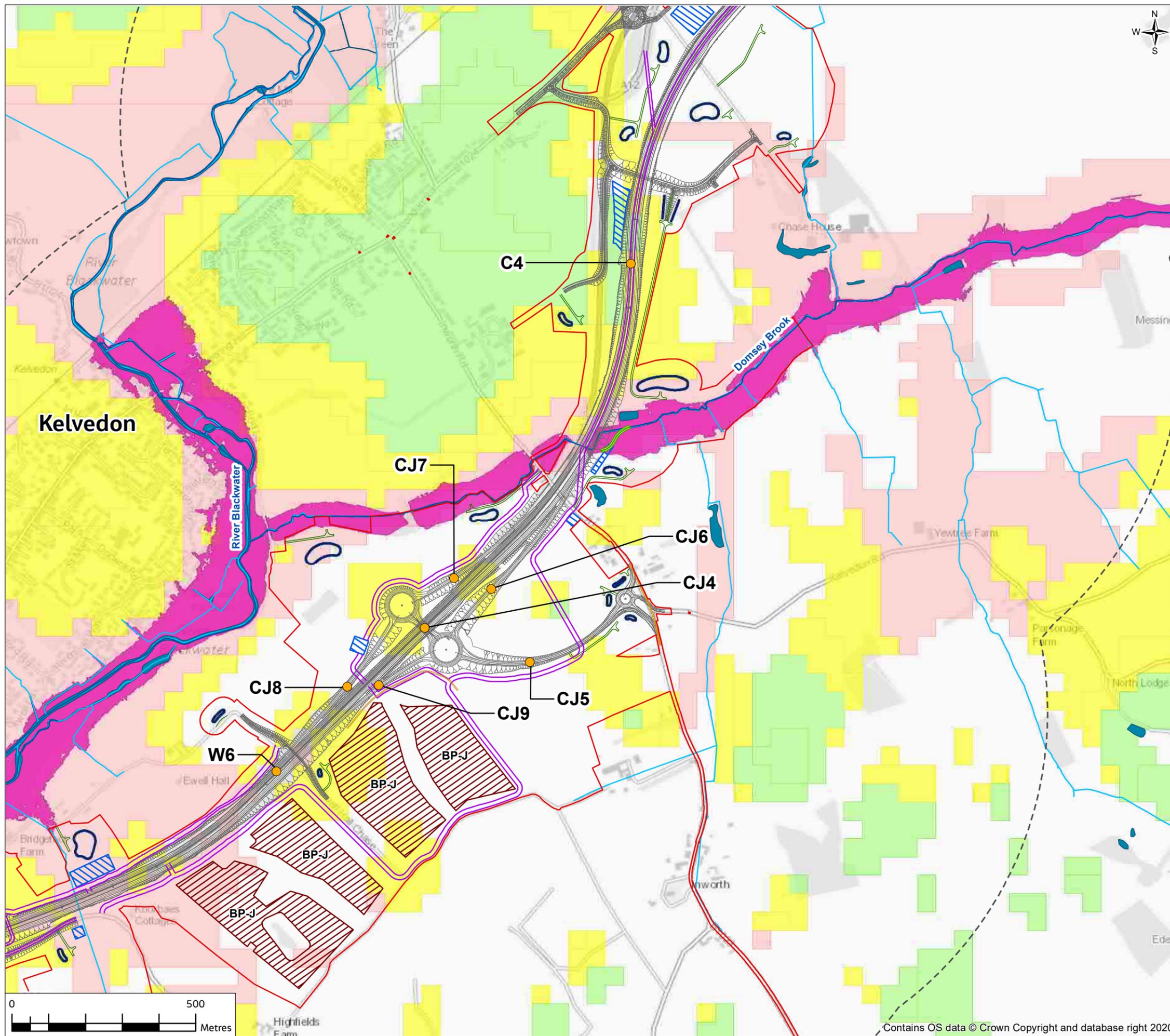
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- Proposed Scheme
- Study Area
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- Realigned Walking, Cycling and Horse Riding route
- Indicative Haul Routes
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Drawing Title						
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Drawing Status						
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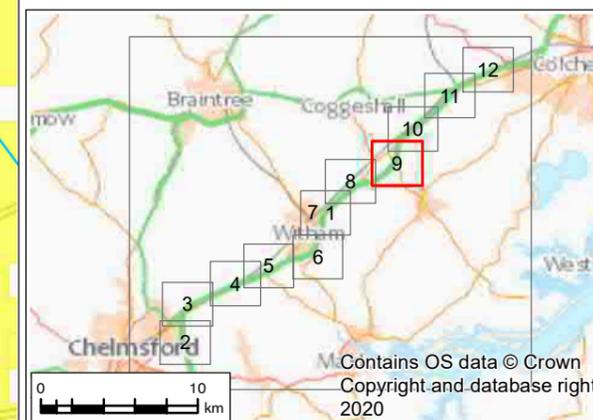


FIGURE 14.6



Legend

- Provisional Order Limits
- Proposed Scheme
- Study Area
- Cuttings and Widening deeper than or equal to 1m deep
- Realigned Walking, Cycling and Horse Riding route
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Client

Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing Title

PEIR
EXISTING GROUNDWATER FLOOD RISK
SHEET 9 OF 12

Drawing Status

S4 - SUITABLE FOR STAGE APPROVAL

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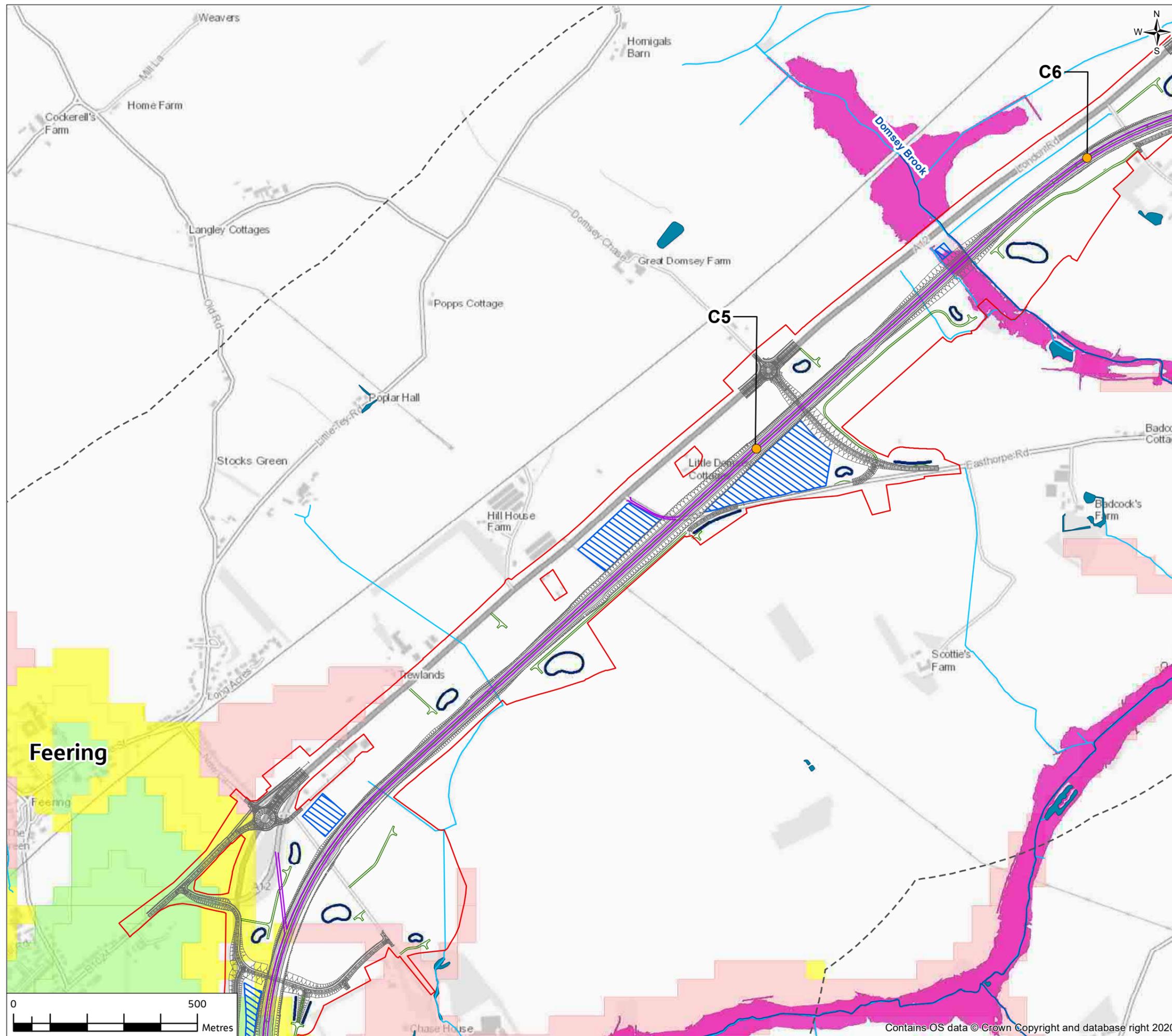
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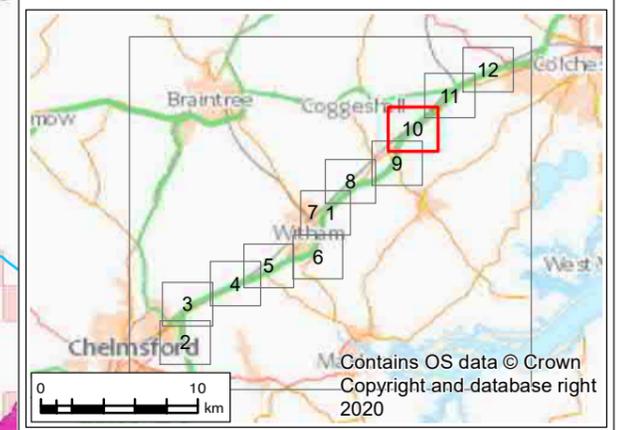
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FIGURE 14.6



- Legend**
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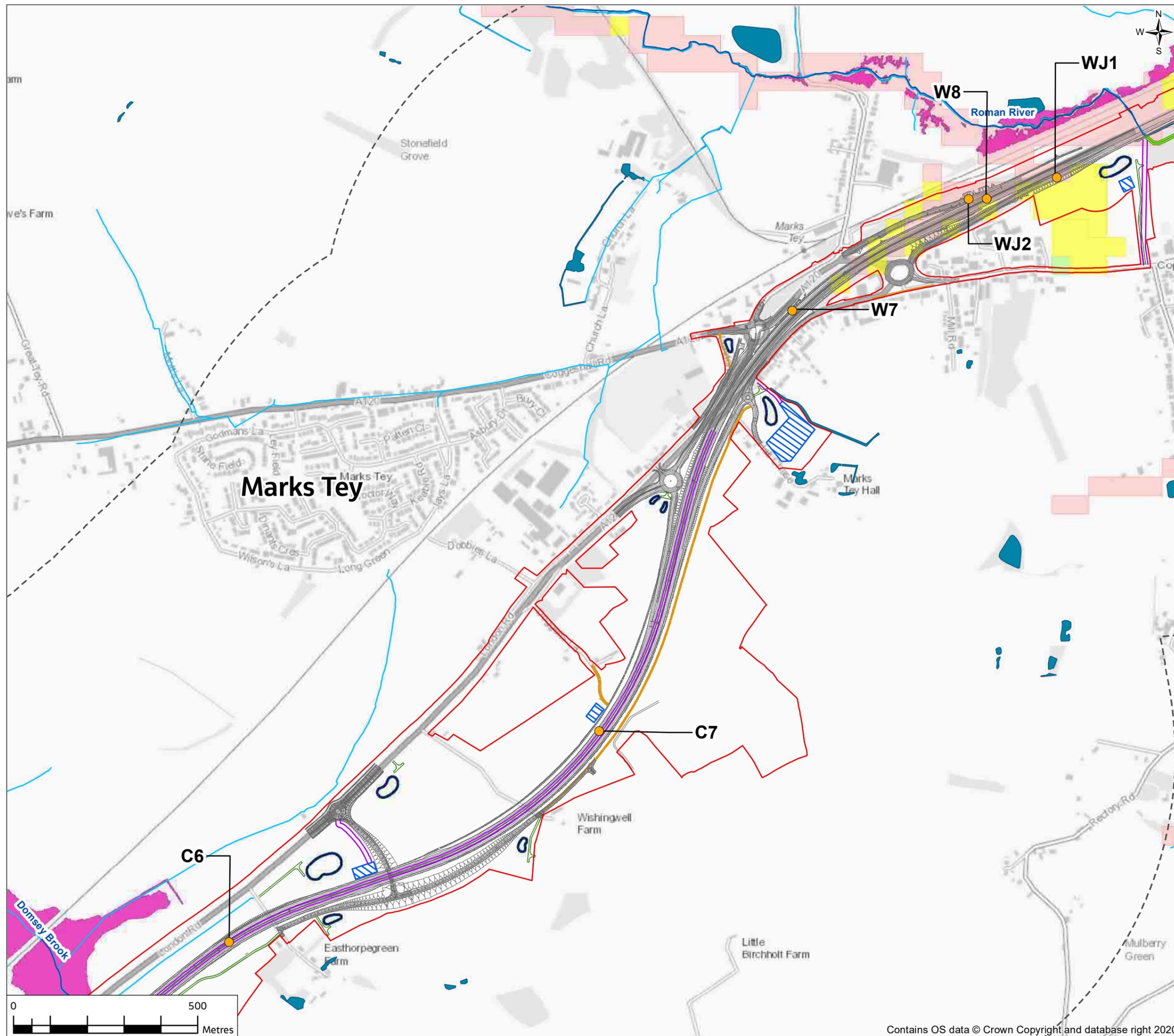
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Project						
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Drawing Title						
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Drawing Status						
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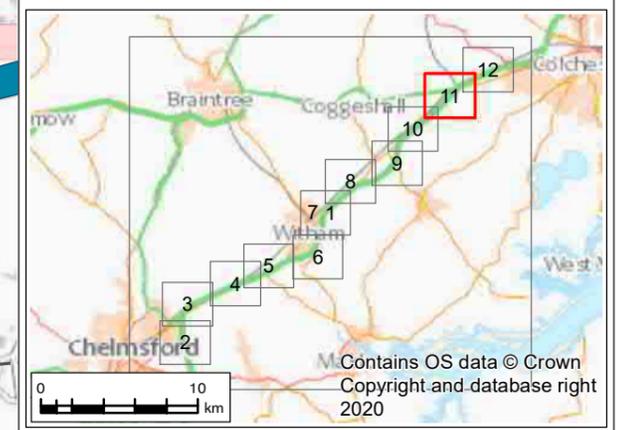
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FIGURE 14.6



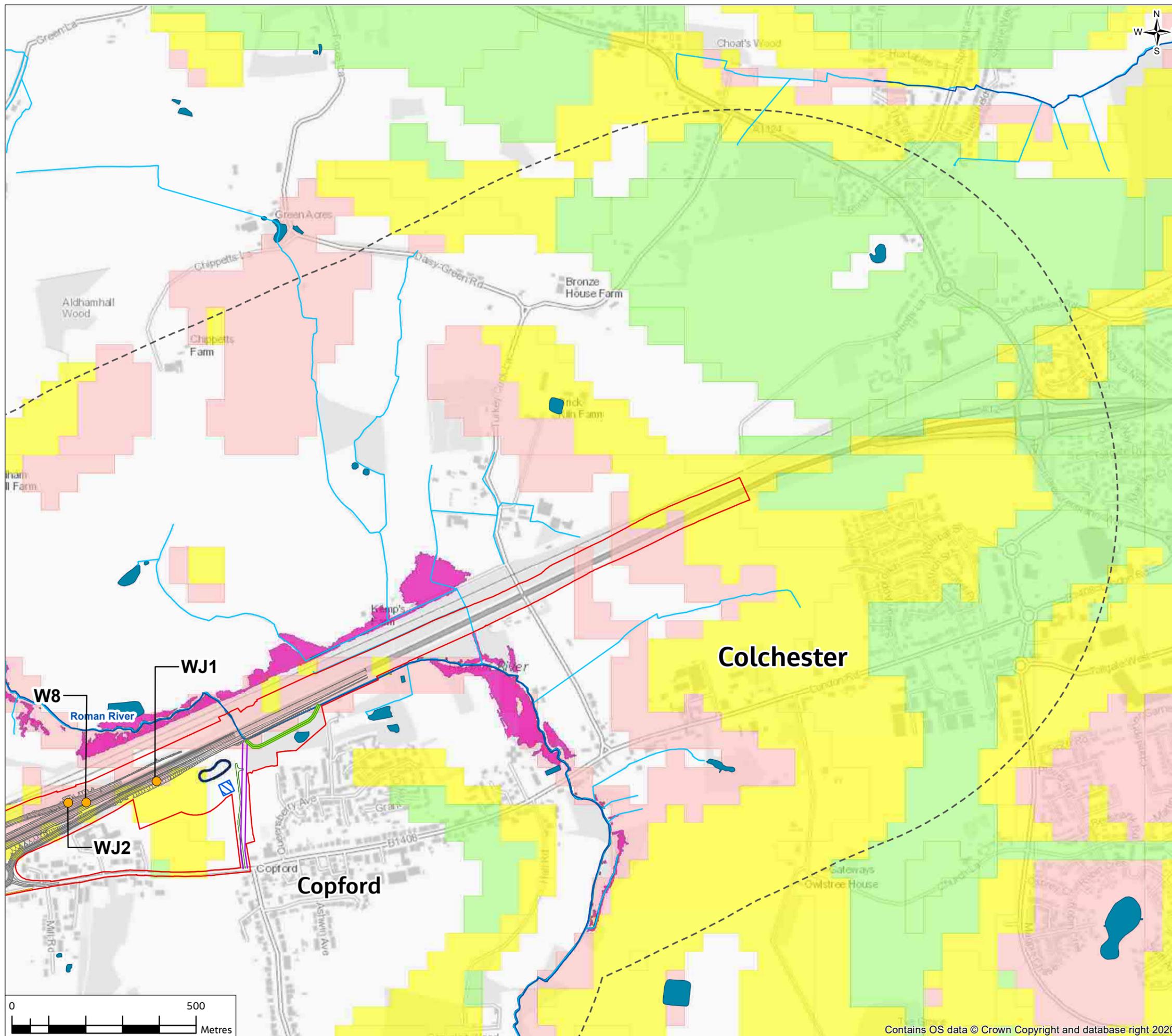
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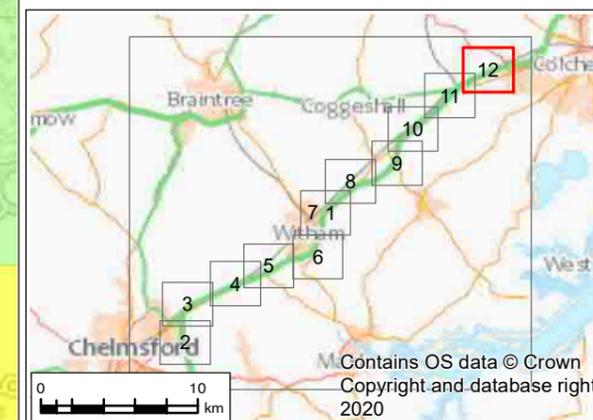
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FIGURE 14.6



- Legend**
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A12 CHELMSFORD TO A120 WIDENING SCHEME						
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Client No.	HE551497					P01
Drawing Number						
HE551497-JAC-EWE-SCHW-SK-GI-0147						



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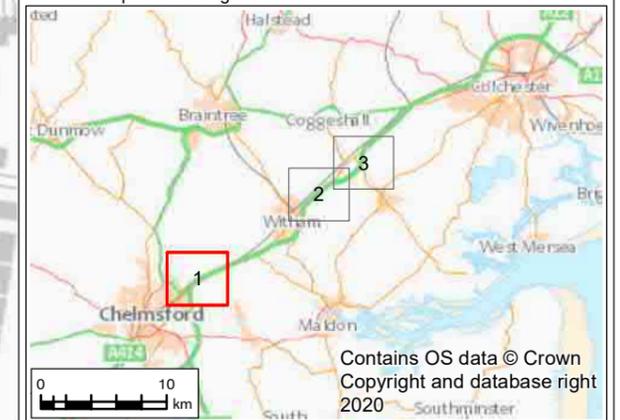
FIGURE 14.7



Legend

- Provisional Order Limits
- Proposed Scheme
- Study Area
- Proposed structures
- Main River
- Ordinary Watercourses
- Proposed Scheme Culverts
- Existing Water Features (river, ponds, lakes and reservoirs)
- Proposed Cut-off ditch
- 10 – 50mm decrease
- 10 – 10mm change (negligible)
- 10 – 50mm increase
- 50 – 100mm increase
- >100mm increase
- >50mm decrease

Note:
This Figure indicates those watercourses where hydraulic modelling has indicated a potentially significant increase in peak main river water levels as a result of the Proposed Scheme. Those watercourses not included would not experience a significant increase.



P01	18/05/21	Initial Issue	JC	CW	DS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

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Client

Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing Title

PEIR
CHANGE IN FLOOD RISK FOR 1% AEP
PLUS 65% CLIMATE CHANGE EVENT
SHEET 1 OF 3

Drawing Status		S4 - SUITABLE FOR STAGE APPROVAL	
Scale @ A3	1:5000	DO NOT SCALE	
Jacobs No.	B36601D1	Rev P01	
Client No.	HE551497		
Drawing Number			
HE551497-JAC-EWE-SCHW-SK-GI-0148			

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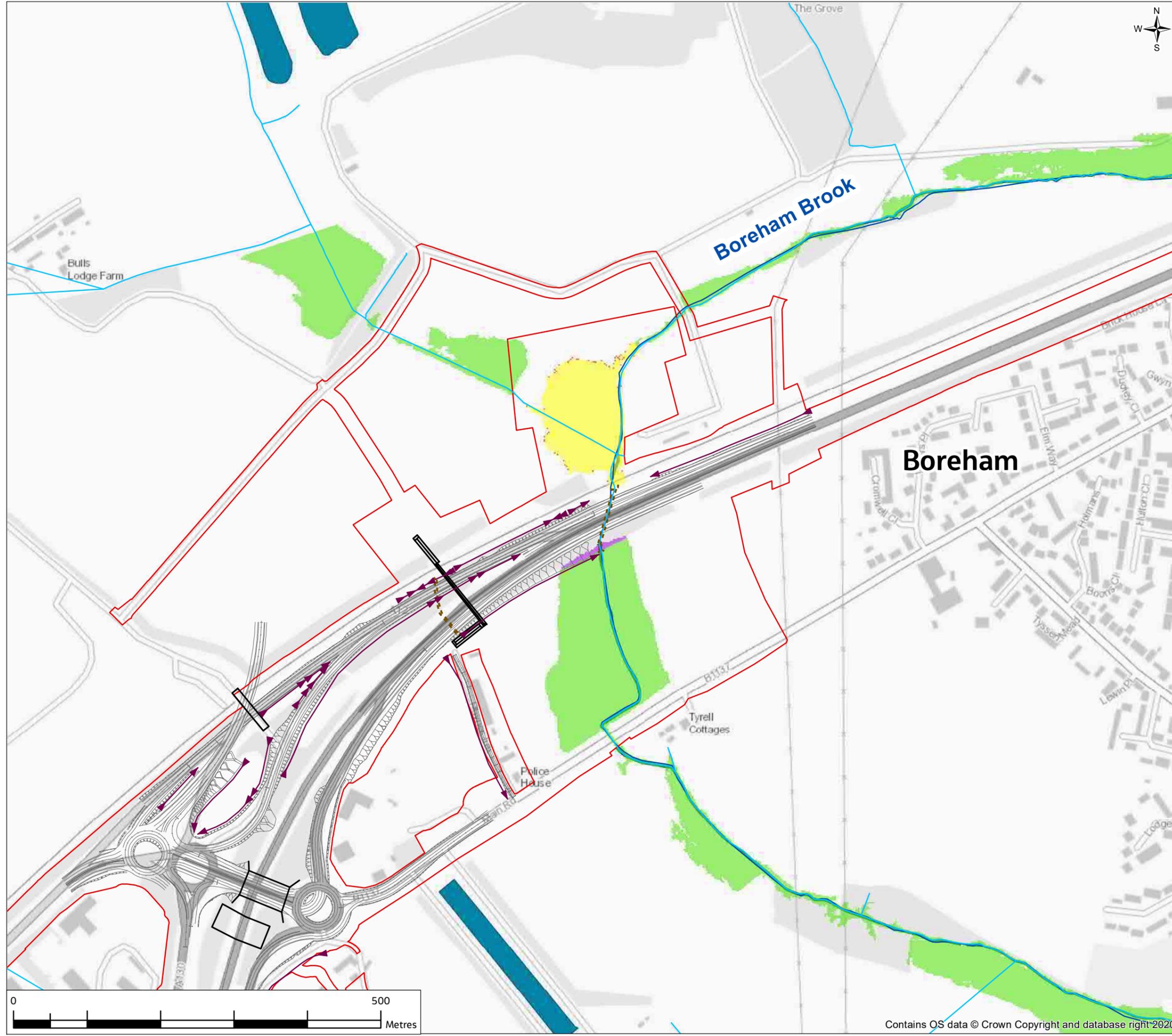
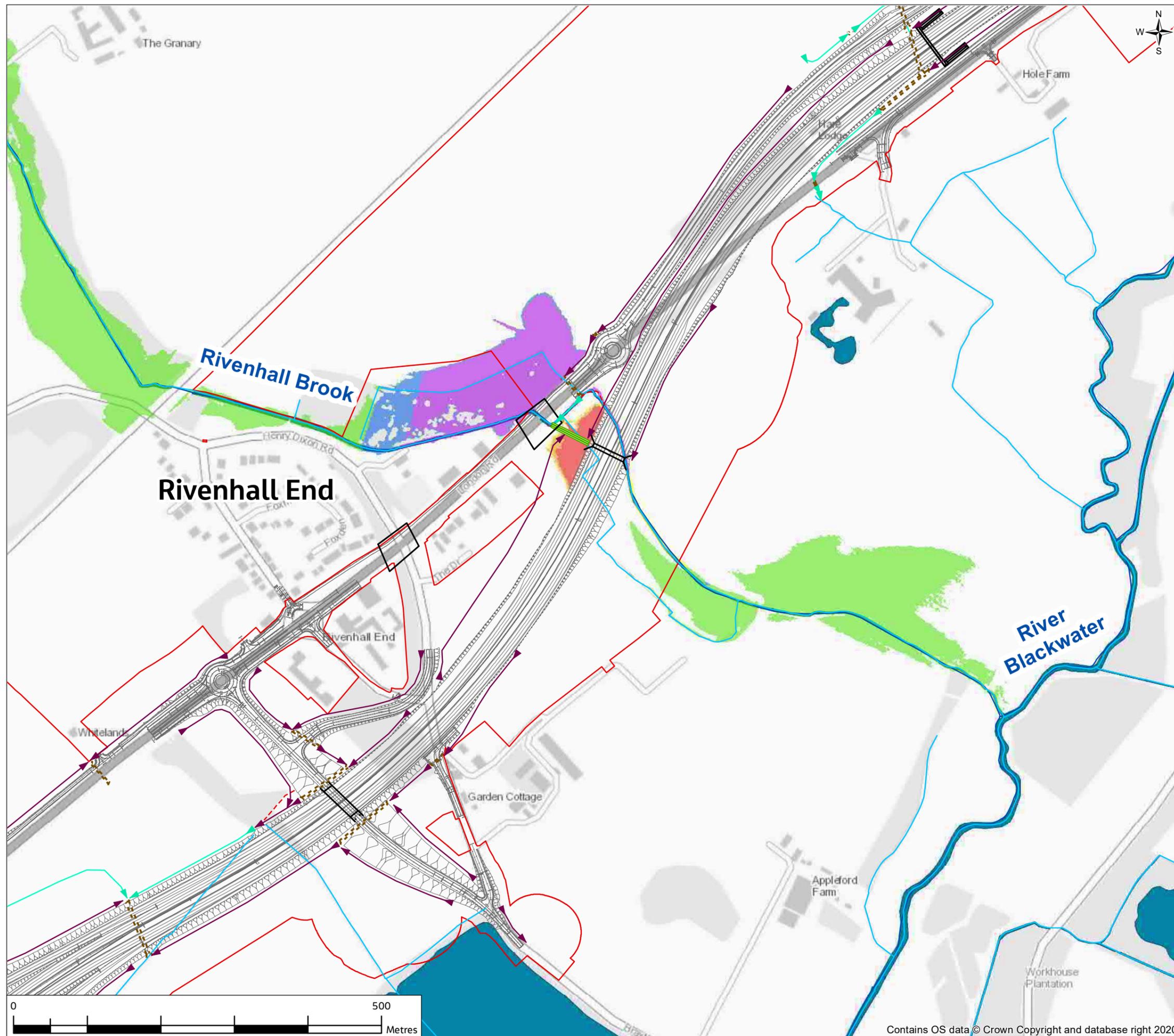


FIGURE 14.7



Legend

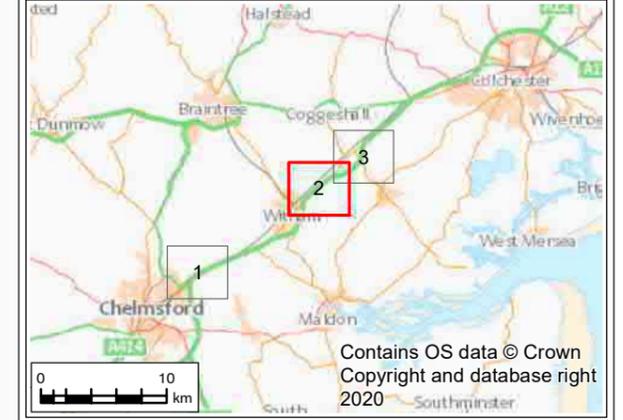
- Provisional Order Limits
- Proposed Scheme
- Study Area
- Proposed structures
- Main River
- Ordinary Watercourses
- Proposed River Diversion
- Proposed Scheme Culverts
- Existing Water Features (river, ponds, lakes and reservoirs)
- Proposed Cut-off ditch
- Existing Ditch / Watercourse (realigned)
- Existing Ditch / Watercourse (to be abandoned)

Modelled change in flood depths (mm) for 1% (1 in 100) AEP plus climate change uplift (65%) event as a result of Proposed Scheme

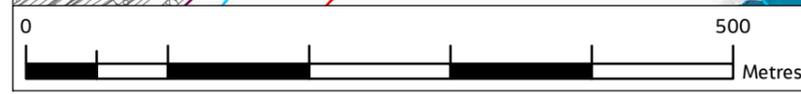
- >50mm decrease
- 10 – 50mm decrease
- 10 – 10mm change (negligible)
- 10 – 50mm increase
- 50 – 100mm increase
- >100mm increase

Cut-Off Ditches

Note:
This Figure indicates those watercourses where hydraulic modelling has indicated a potentially significant increase in peak main river water levels as a result of the Proposed Scheme. Those watercourses not included would not experience a significant increase.



P01	18/05/21	Initial Issue	JC	CW	DS	SG
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Client						
Project						
A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing Title						
PEIR CHANGE IN FLOOD RISK FOR 1% AEP PLUS 65% CLIMATE CHANGE EVENT SHEET 2 OF 3						
Drawing Status						
S4 - SUITABLE FOR STAGE APPROVAL						
Scale @ A3	1:5000					DO NOT SCALE
Jacobs No.	B36601D1					Rev
Client No.	HE551497					P01
Drawing Number						
HE551497-JAC-EWE-SCHW-SK-GI-0149						



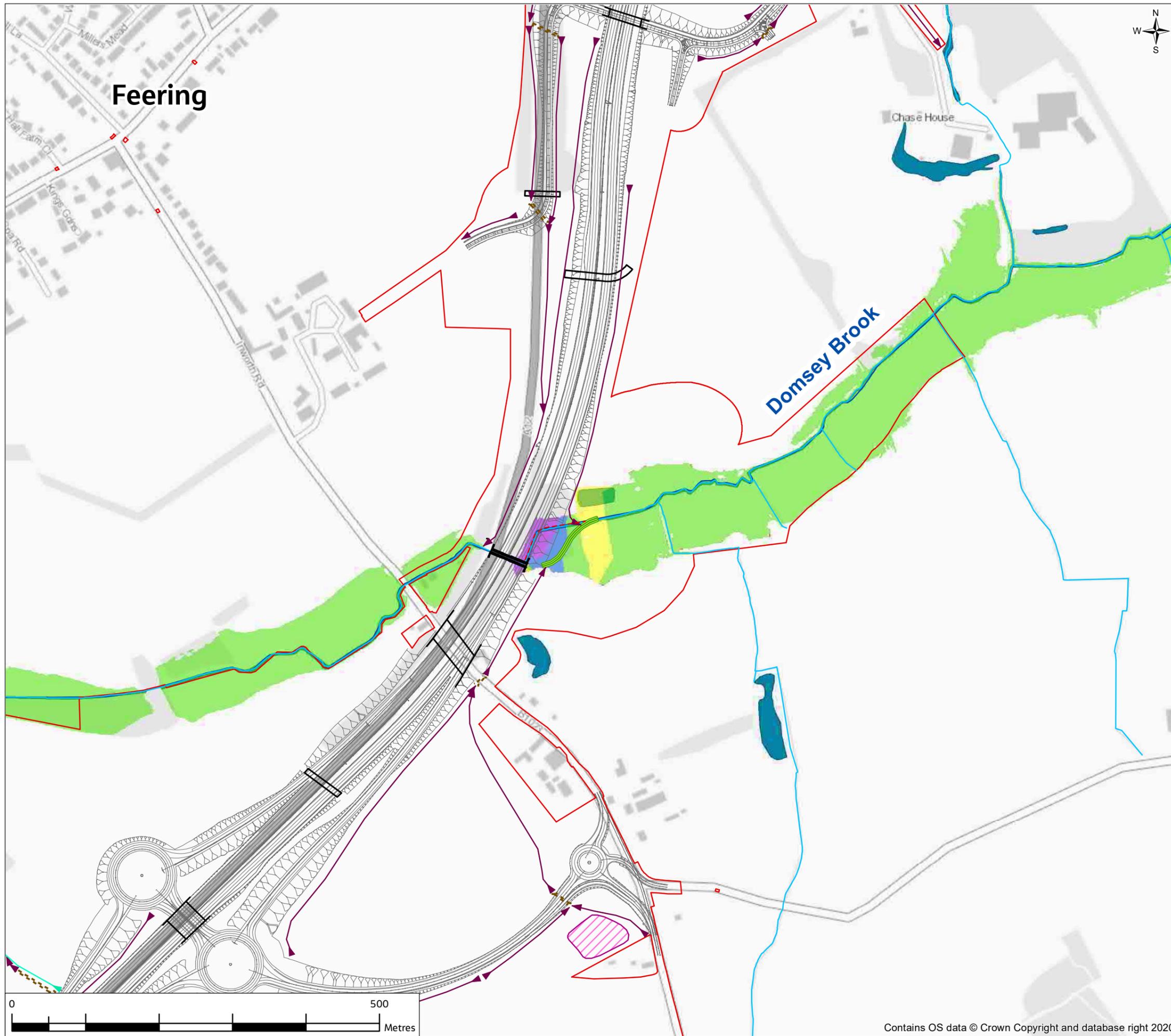
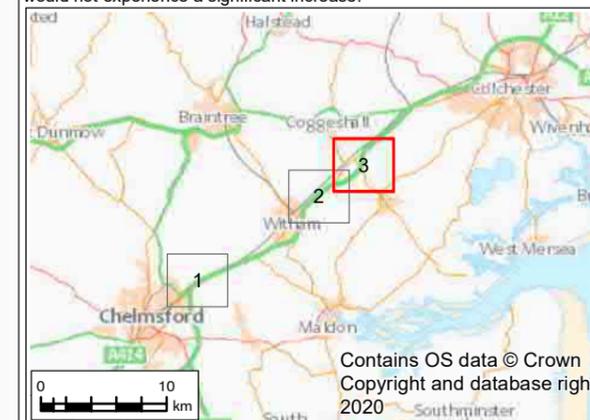


FIGURE 14.7

Legend

- Provisional Order Limits
 - Proposed Scheme
 - Study Area
 - Proposed structures
 - Main River
 - Ordinary Watercourses
 - Proposed River Diversion
 - Proposed Scheme Culverts
 - Existing Water Features (river, ponds, lakes and reservoirs)
 - Flood Plain Compensation for ordinary watercourse (indicative)
 - Proposed Cut-off ditch
 - Existing Ditch / Watercourse (realigned)
 - Existing Ditch / Watercourse (to be abandoned)
- Modelled change in flood depths (mm) for 1% (1 in 100) AEP plus climate change uplift (65%) event as a result of Proposed Scheme**
- >50mm decrease
 - 10 – 50mm decrease
 - 10 – 10mm change (negligible)
 - 10 – 50mm increase
 - 50 – 100mm increase
 - >100mm increase

Note:
This Figure indicates those watercourses where hydraulic modelling has indicated a potentially significant increase in peak main river water levels as a result of the Proposed Scheme. Those watercourses not included would not experience a significant increase.



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Client

Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing Title

**PEIR
CHANGE IN FLOOD RISK FOR 1% AEP
PLUS 65% CLIMATE CHANGE EVENT
SHEET 3 OF 3**

Drawing Status

S4 - SUITABLE FOR STAGE APPROVAL

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Drawing Number

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