

LEGEND

- Paddock Wood SWMP Study Area
- Model Boundary

LIDAR

Elevation (mAOD)



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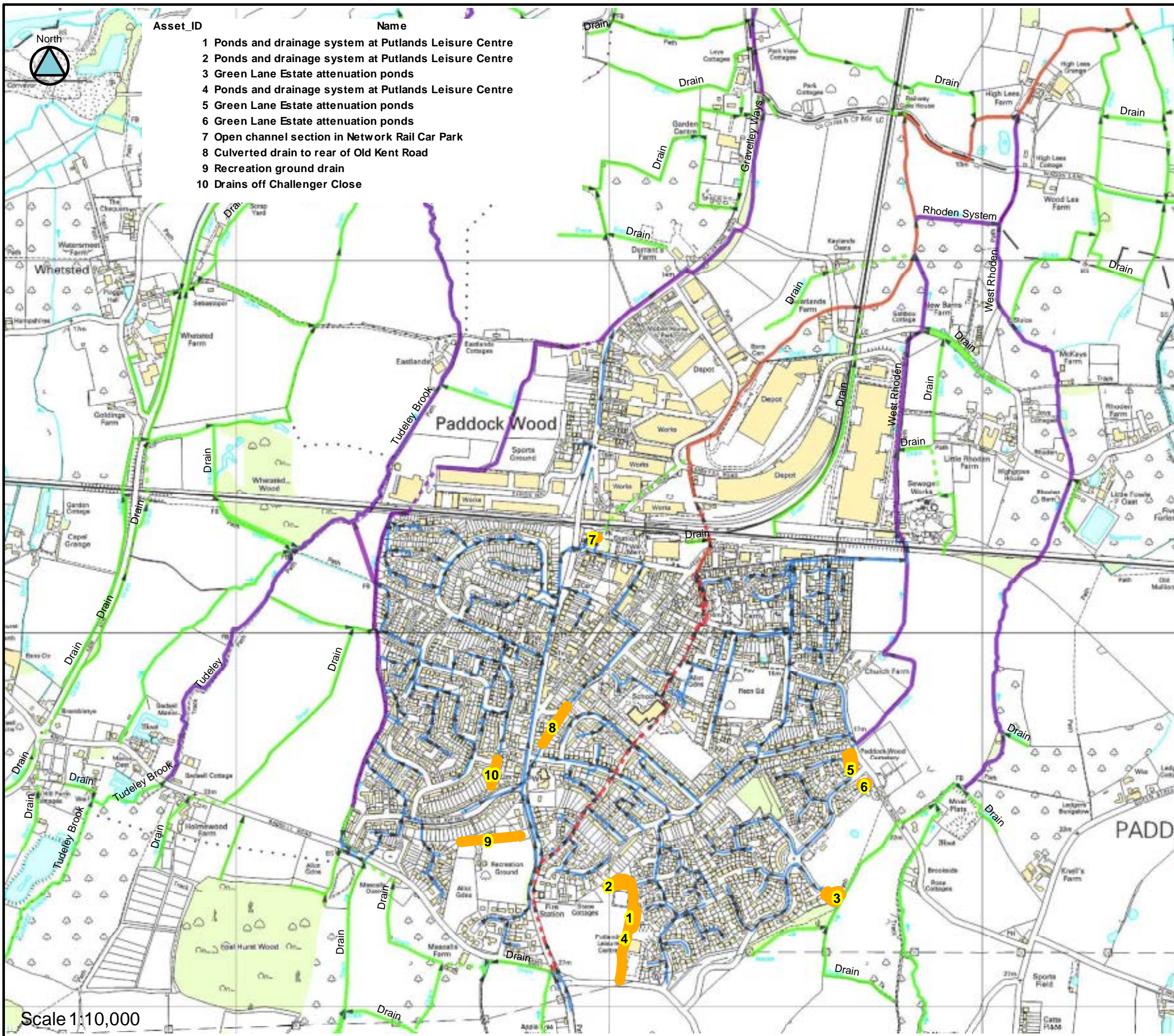
Consultant



PADDOCK WOOD SWMP

Map 1: Study Location and Topography

Scale 1:30,000



Asset_ID	Name
1	Ponds and drainage system at Putlands Leisure Centre
2	Ponds and drainage system at Putlands Leisure Centre
3	Green Lane Estate attenuation ponds
4	Ponds and drainage system at Putlands Leisure Centre
5	Green Lane Estate attenuation ponds
6	Green Lane Estate attenuation ponds
7	Open channel section in Network Rail Car Park
8	Culverted drain to rear of Old Kent Road
9	Recreation ground drain
10	Drains off Challenger Close

LEGEND	
	Unmaintained and disputed assets
	Main River (EA) - open channel
	Main River (EA) - culverted
	Ordinary Watercourse (MIDB) - open channel
	Ordinary Watercourse (MIDB) - culverted
	Ordinary Watercourse (Riparian Owner) - open channel
	Ordinary Watercourse (Riparian Owner) - culverted
	Surface Water Sewer (Southern Water)

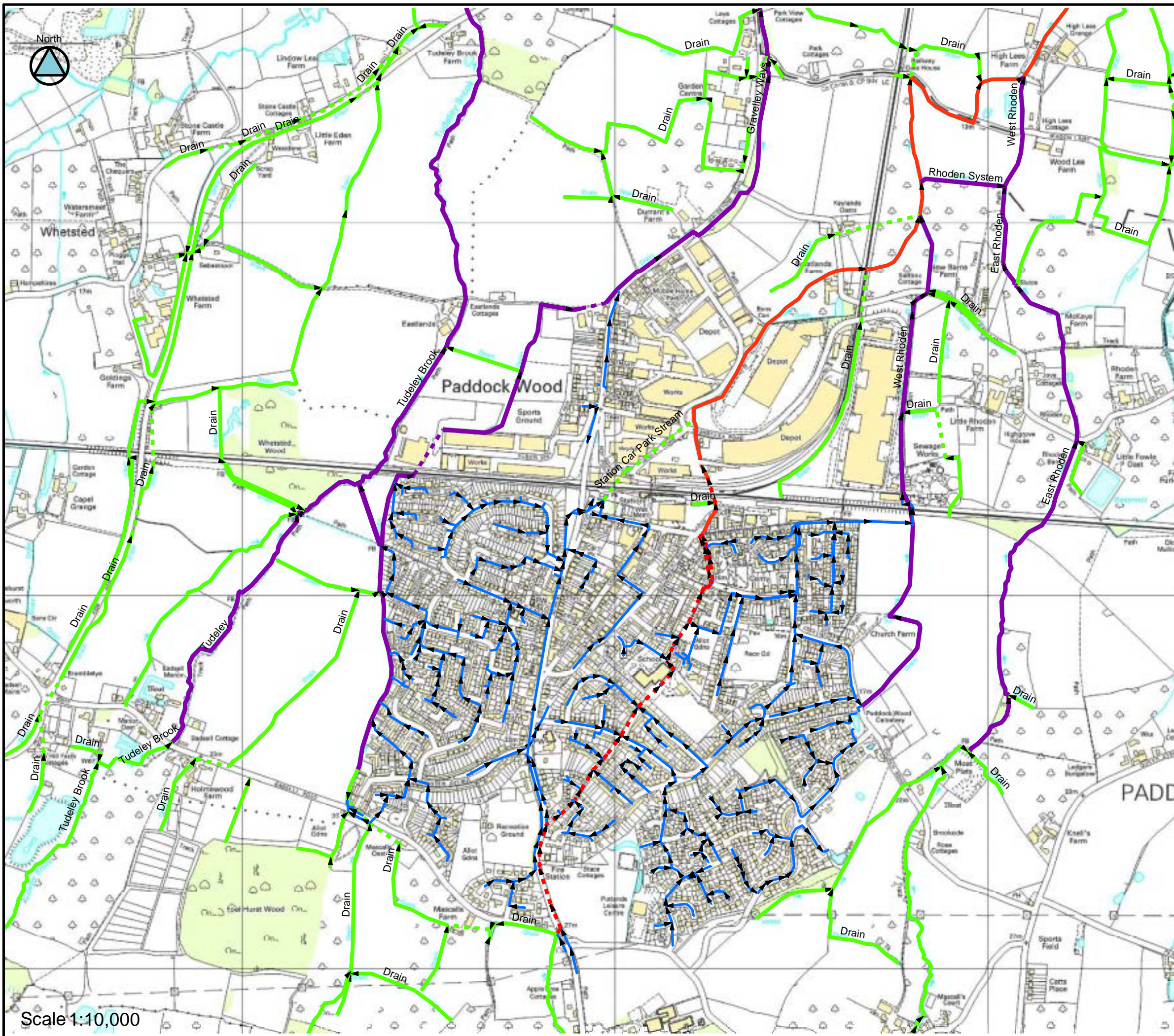
This map shows drainage assets identified by the partners as having uncertain or disputed ownership and maintenance.

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- ### LEGEND
- Main River (EA) - open channel
 - - - Main River (EA) - culverted
 - Ordinary Watercourse (MIDB) - open channel
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 - - - Ordinary Watercourse (Riparian Owner) - culverted
 - Surface Water Sewer (Southern Water)

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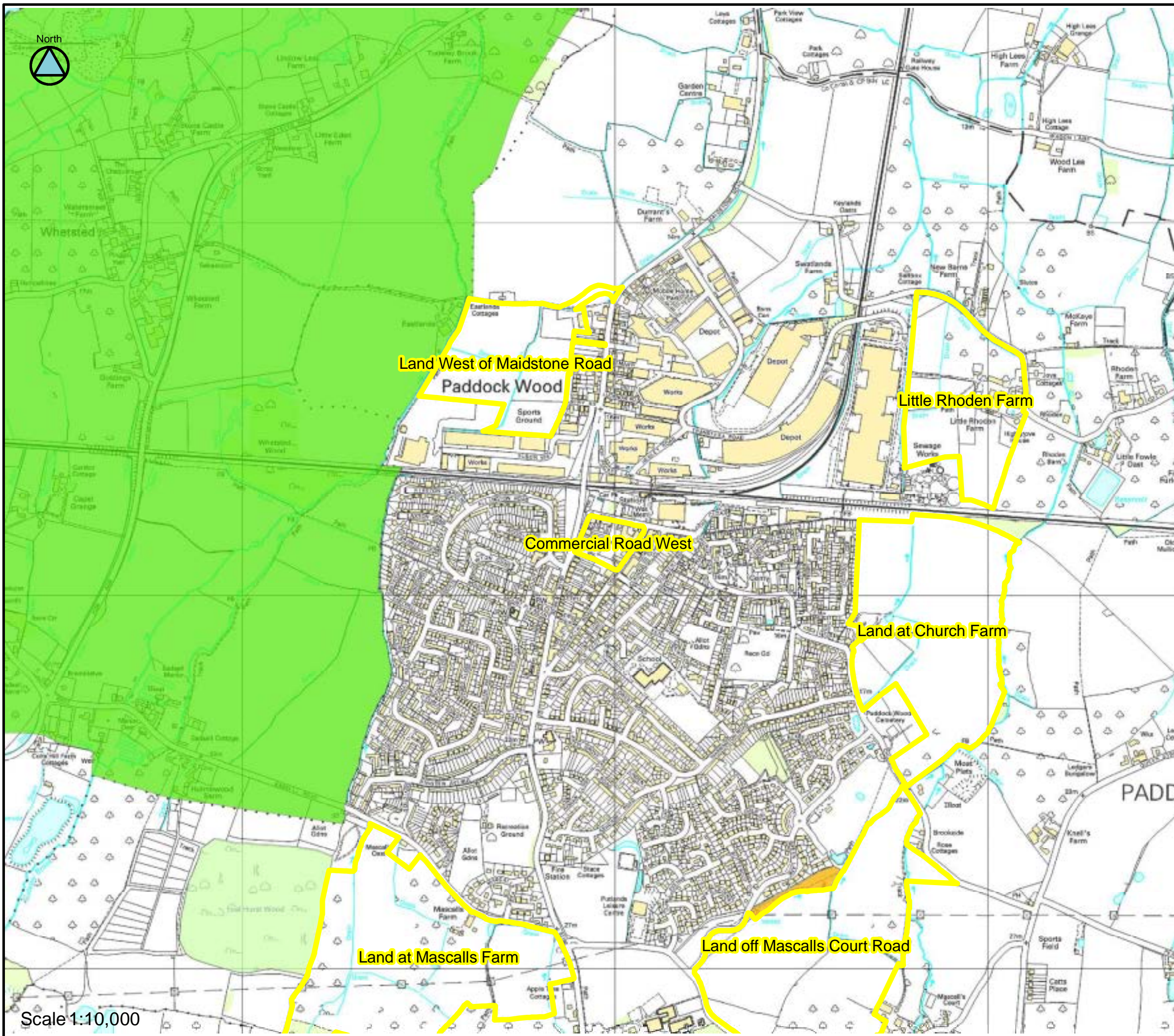
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Map 3: Watercourses and Drainage Systems



LEGEND

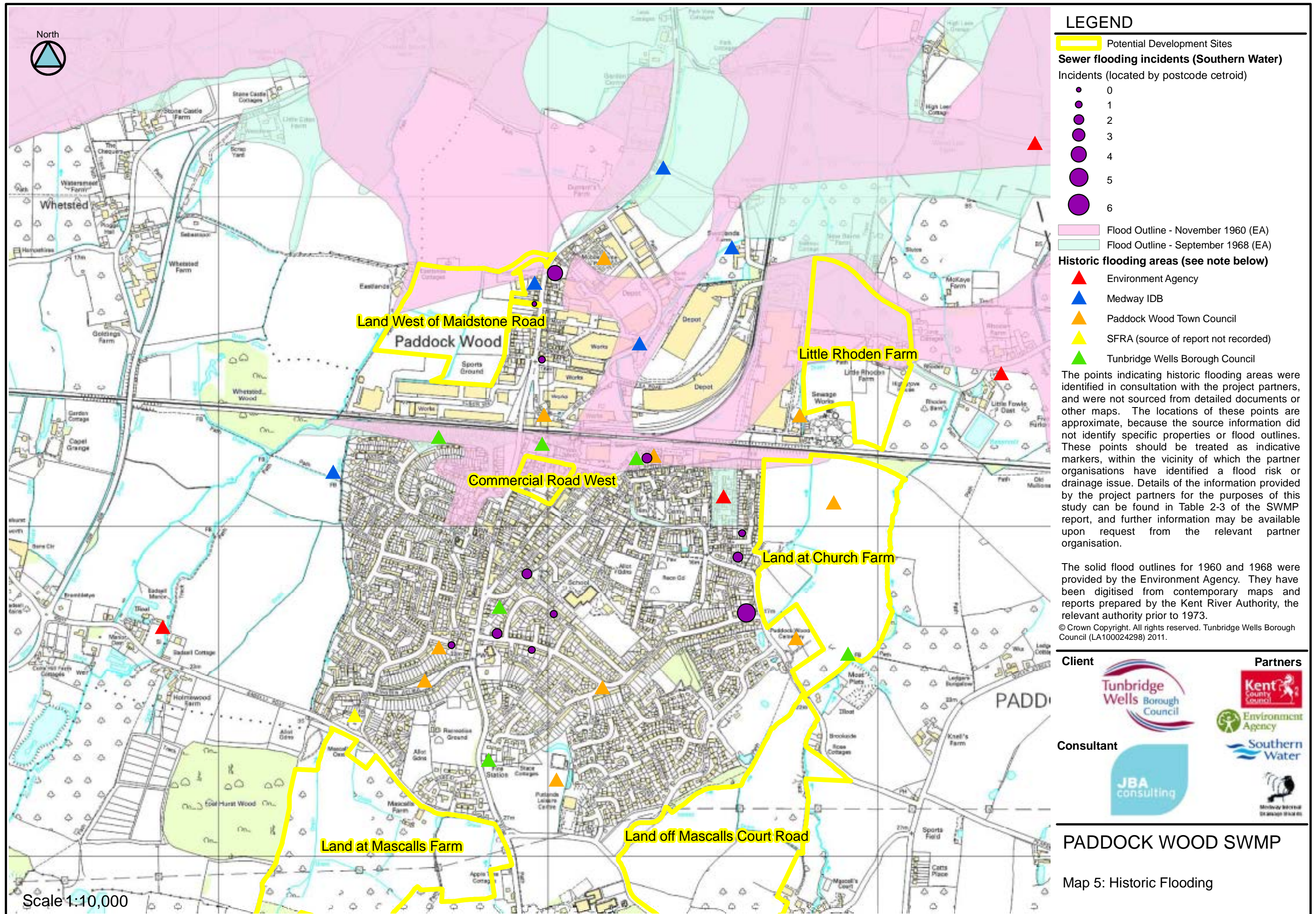
- Development Sites
- Conservation Areas
- KCC Historic Parks Gardens
- AONB
- EH Historic Parks Gardens
- LNR region
- Monuments
- SLNCVs
- SSSI
- Green Belt

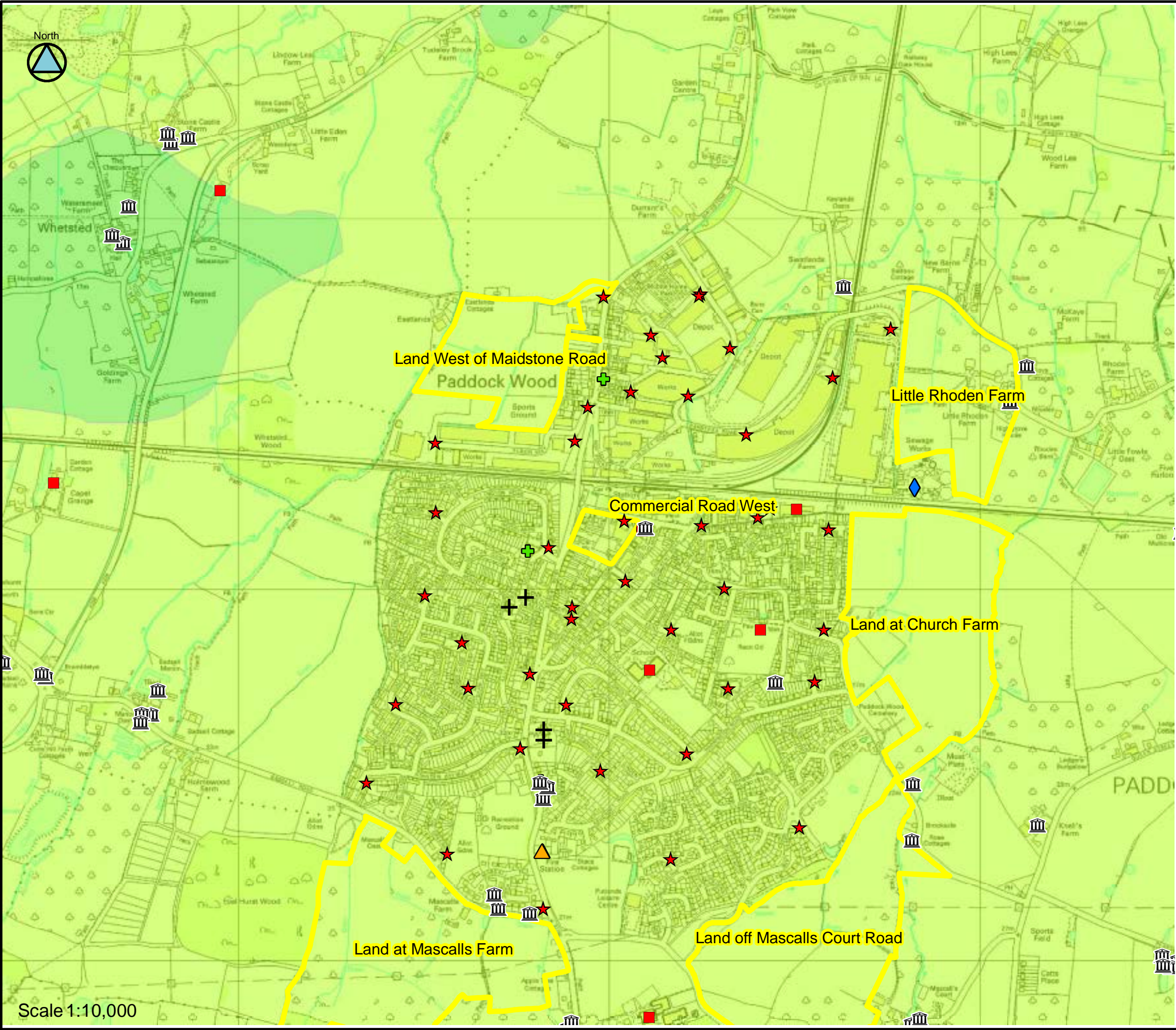
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LEGEND

- Listed Buildings
- School / University / College
- Surgery / Health Centre
- Hall / Community Centre
- Fire / Ambulance
- Church / Chapel
- Water Utilities
- Electricity / Communications
- Potential Development Sites
- Grade 1 agricultural land
- Grade 2 agricultural land
- Grade 3 agricultural land
- Grade 4 agricultural land
- Grade 5 agricultural land
- Non-agricultural land
- Urban area

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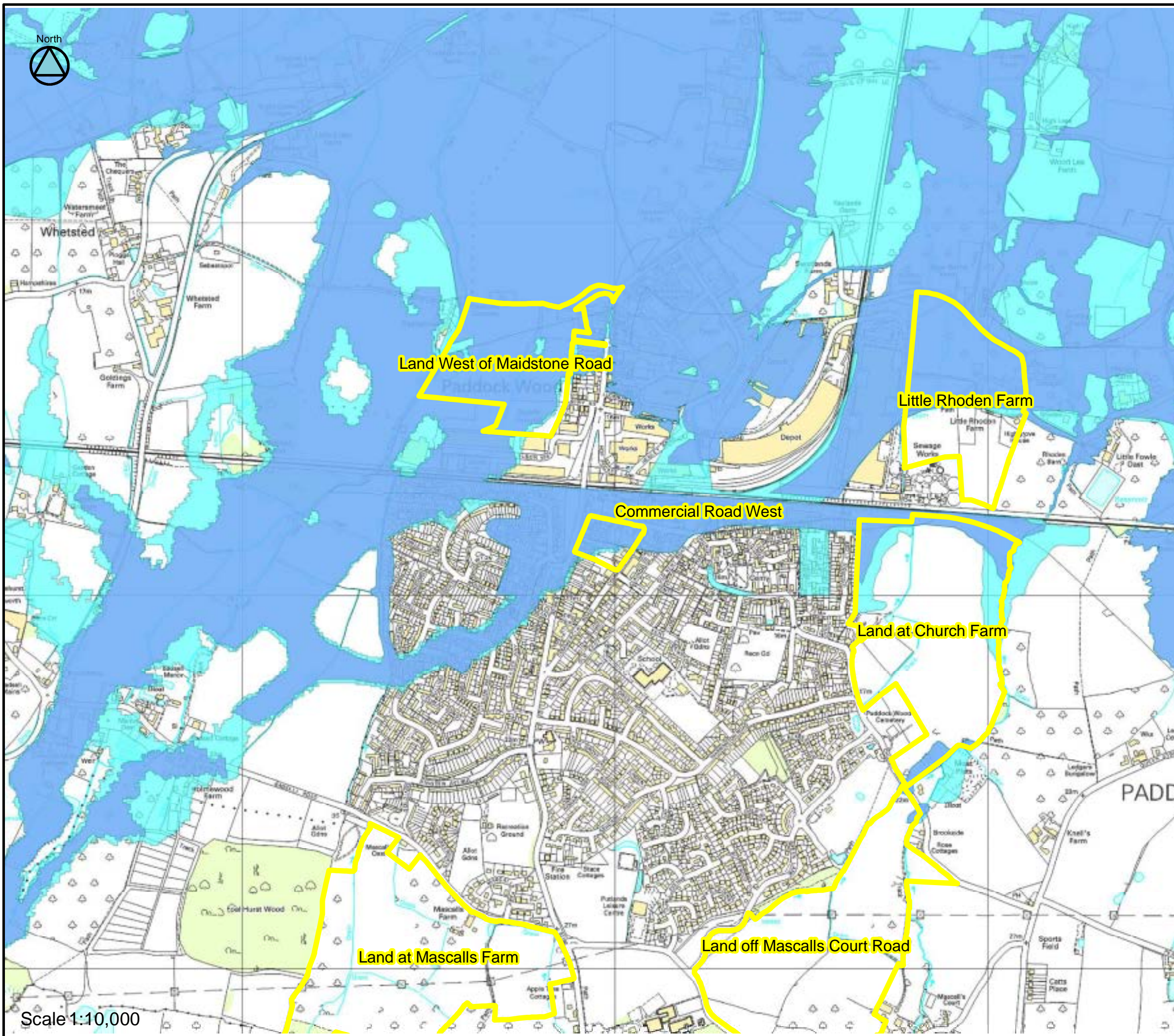


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Map 6: Flooding Receptors



LEGEND

Potential Development Sites

National Flood Defences

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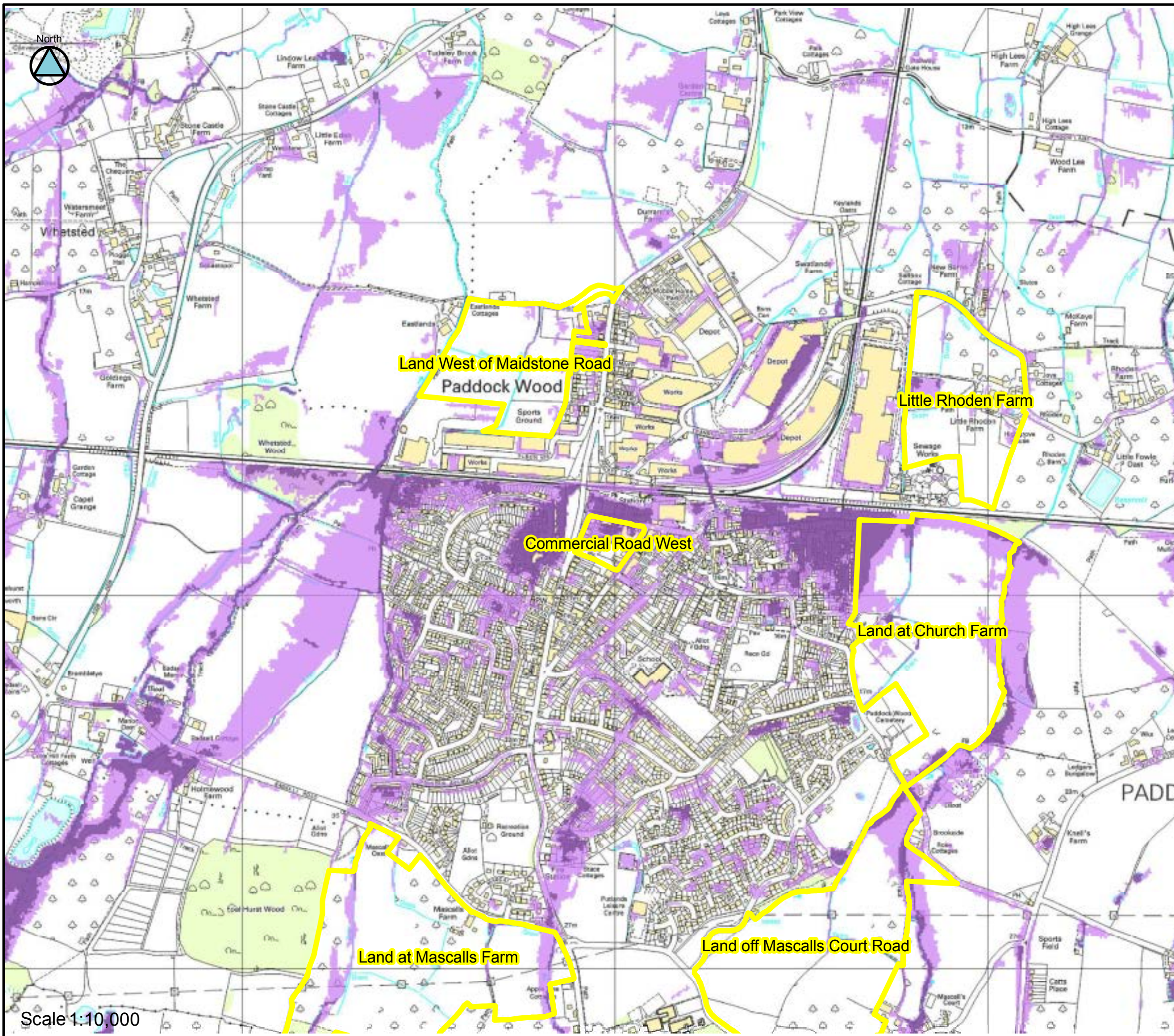
Environment Agency

Southern Water

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JBA consulting

Scale 1:10,000



LEGEND

- Potential Development Sites
- FMfSW 1 in 200 AEP
 - > 0.3m deep
 - > 0.1m deep

Environment Agency Disclaimer:

The Environment Agency's surface water flood maps give an indication of the broad areas likely to be at risk of surface water flooding. However, Environment Agency surface water flood maps are not suitable for identifying whether an individual property will flood. This is because the modelling only gives an indication of broad areas at risk, and because we do not hold information on floor levels, construction characteristics or designs of properties. We would need this and other detailed information to be able to say whether flooding of certain depth would enter into an individual property and cause damage. They may be suitable for identifying where properties are in areas at risk of flooding for locations where surface water flooding is strongly influenced by topography.

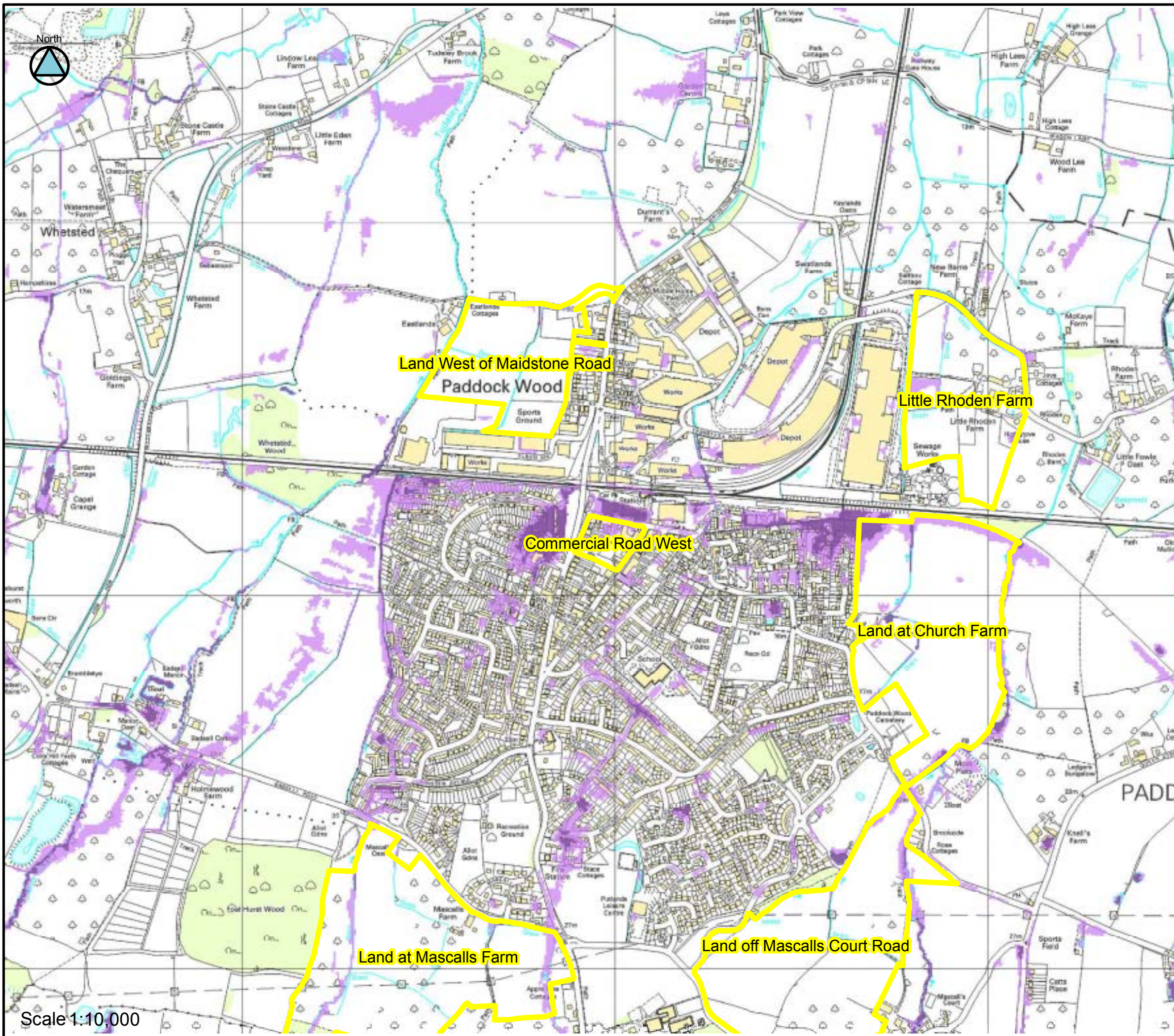
Each map can only give an indication of areas at risk from surface water flooding from a national assessment. They cannot provide detail on individual properties. Therefore the information should not be interpreted as showing that the location you are interested in will or won't actually flood, but simply that it is in or not in an area shown at risk on the maps.

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PADDOCK WOOD SWMP

Map 9: Flood Map for Surface Water
1 in 200 annual exceedance probability



LEGEND

Potential Development Sites

FmSW 1 in 30 AEP

> 0.3m deep

> 0.1m deep

Environment Agency Disclaimer:

The Environment Agency's surface water flood maps give an indication of the broad areas likely to be at risk of surface water flooding. However, Environment Agency surface water flood maps are not suitable for identifying whether an individual property will flood. This is because the modelling only gives an indication of broad areas at risk, and because we do not hold information on floor levels, construction characteristics or designs of properties. We would need this and other detailed information to be able to say whether flooding of certain depth would enter into an individual property and cause damage. They may be suitable for identifying where properties are in areas at risk of flooding for locations where surface water flooding is strongly influenced by topography.

Each map can only give an indication of areas at risk from surface water flooding from a national assessment. They cannot provide detail on individual properties. Therefore the information should not be interpreted as showing that the location you are interested in will or won't actually flood, but simply that it is in or not in an area shown at risk on the maps.

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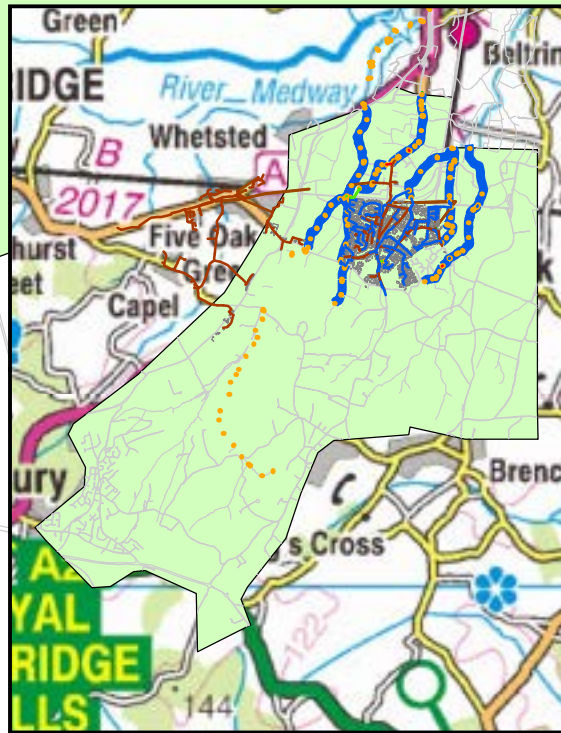
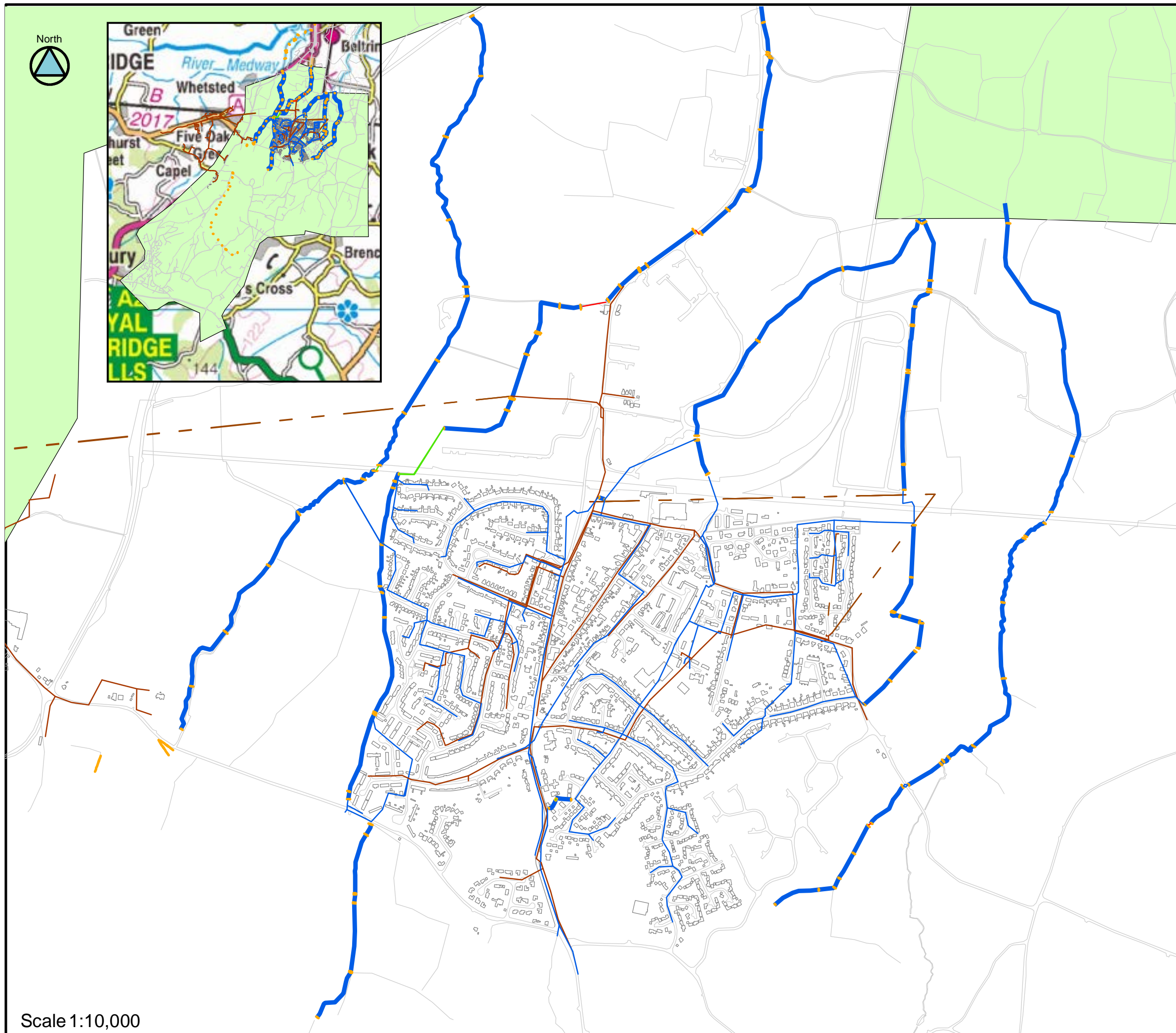
Kent County Council

Environment Agency

Southern Water

Consultant

JBA consulting



LEGEND

1D model elements

Conduit System Type	
	Foul
	Storm
	Combined
	Other
	Cross section line
Pump System Type	
	Foul
	Storm
	Combined
	Other
	River reach

2D model elements

	Break line
	Porous wall
	2D zone

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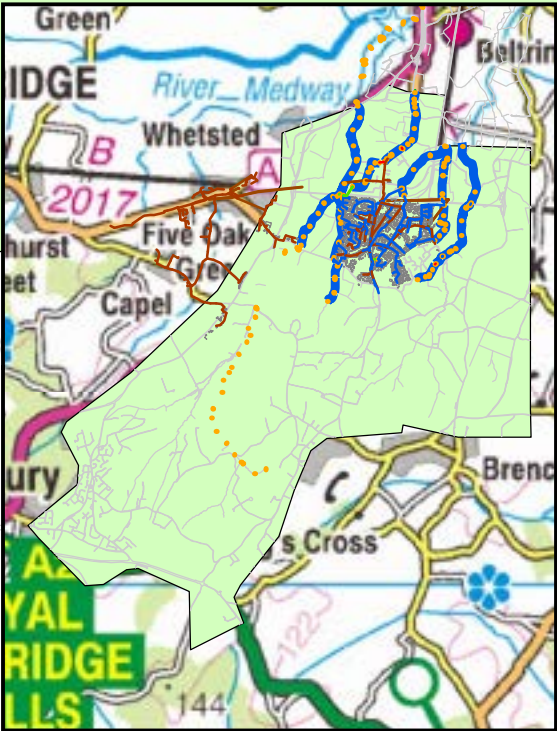
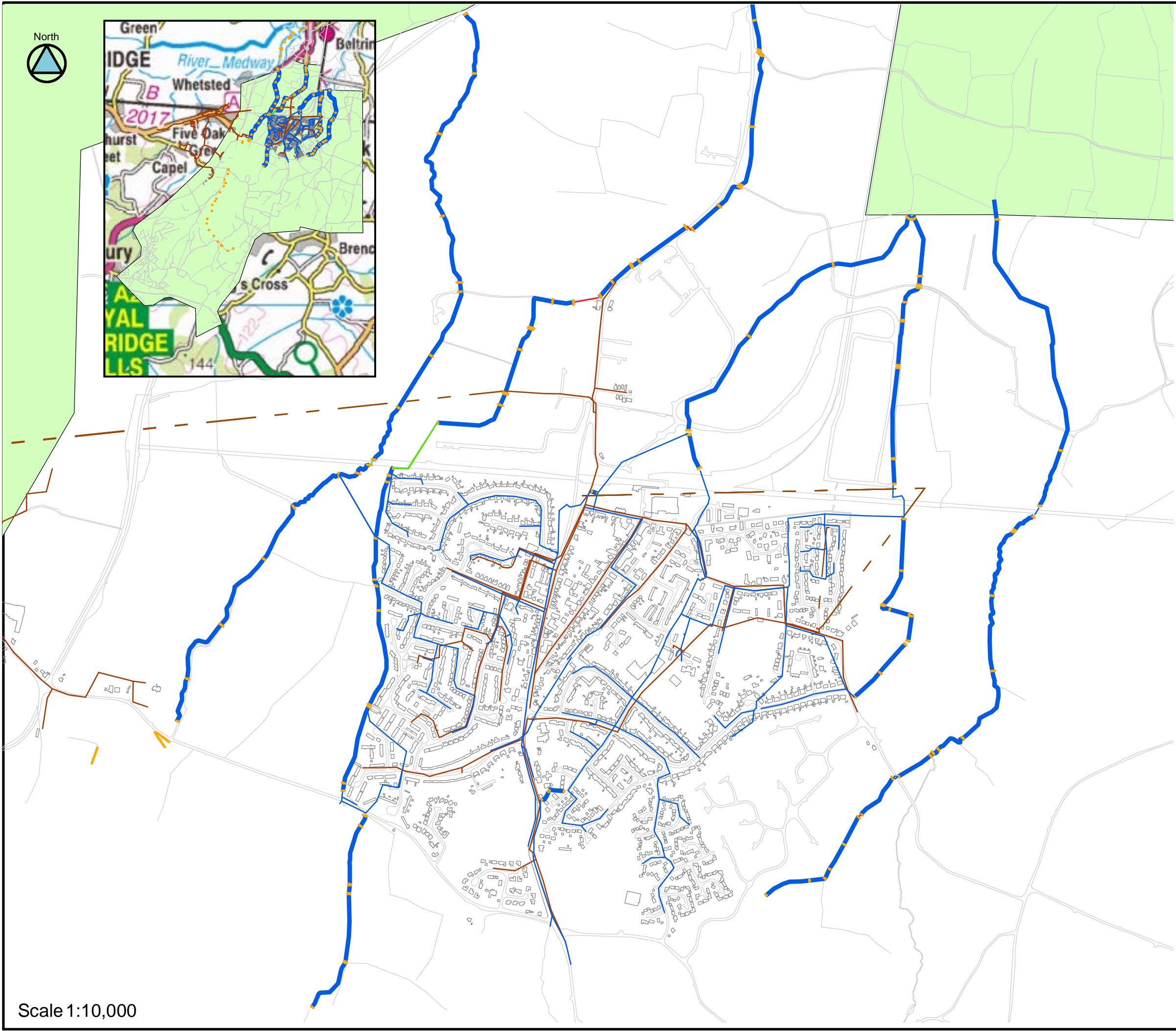
Partners

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PADDOCK WOOD SWMP

Map 10: Modelled watercourses and drainage systems

Scale 1:10,000



LEGEND

1D model elements

Conduit System Type

- Foul
- Storm
- Combined
- Other
- Cross section line

Pump System Type

- Foul
- Storm
- Combined
- Other
- River reach

2D model elements

- Break line
- Porous wall
- 2D zone

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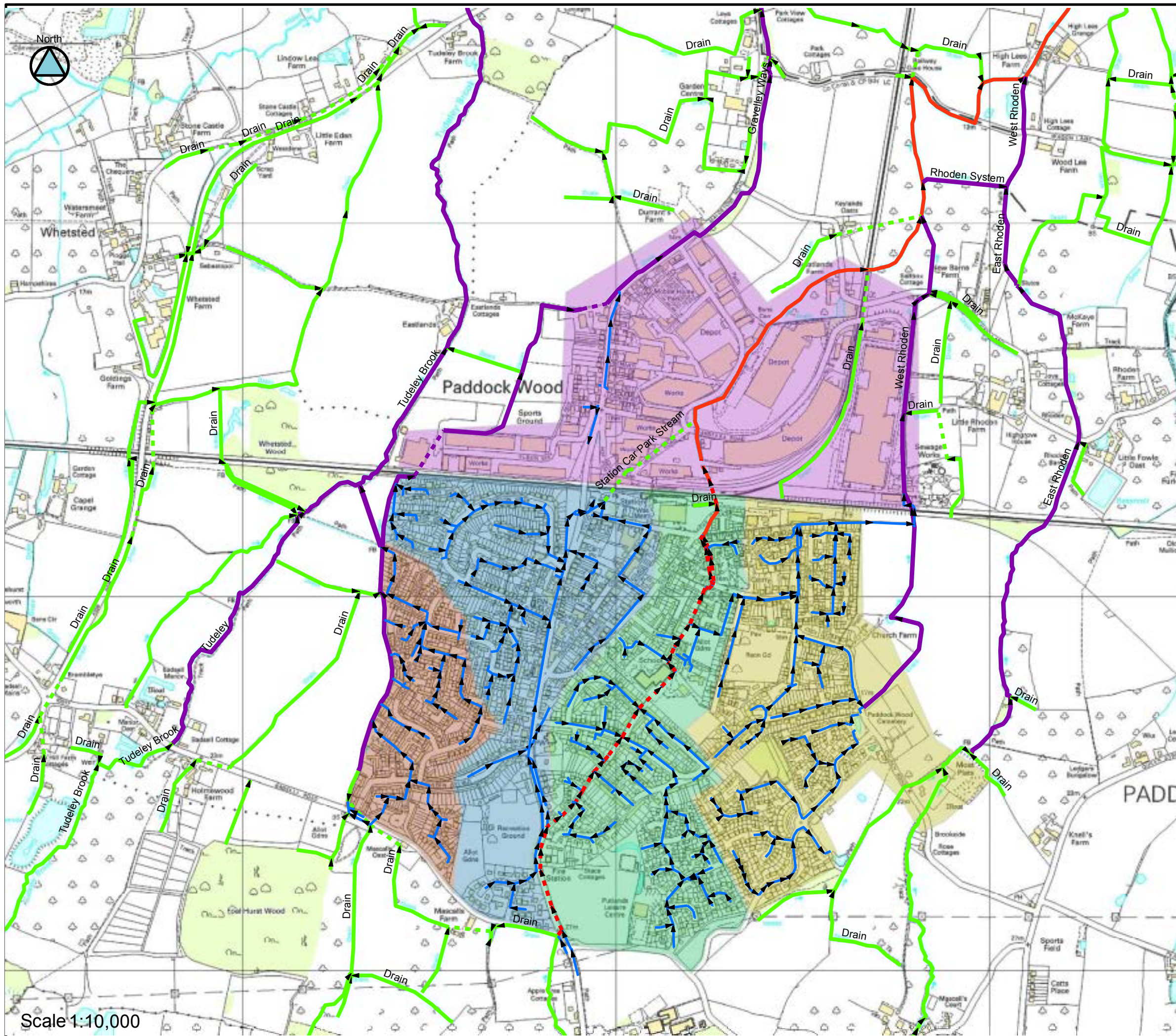
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PADDOCK WOOD SWMP

Map 10: Modelled watercourses and drainage systems

Scale 1:10,000



LEGEND

Main River (EA) - open channel

Main River (EA) - culverted

Ordinary Watercourse (MIDB) - open channel

Ordinary Watercourse (MIDB) - culverted

Ordinary Watercourse (Riparian Owner) - open channel

Ordinary Watercourse (Riparian Owner) - culverted

Surface Water Sewer (Southern Water)

Sub-catchments used for damage calculations

Allington Rd / "Station car park" stream

Gravelley Way Stream / Tudeley Brook

Paddock Wood Stream (u/s of railway)

Paddock Wood Stream / Rhoden system (d/s of railway)

Rhoden system (u/s of railway)

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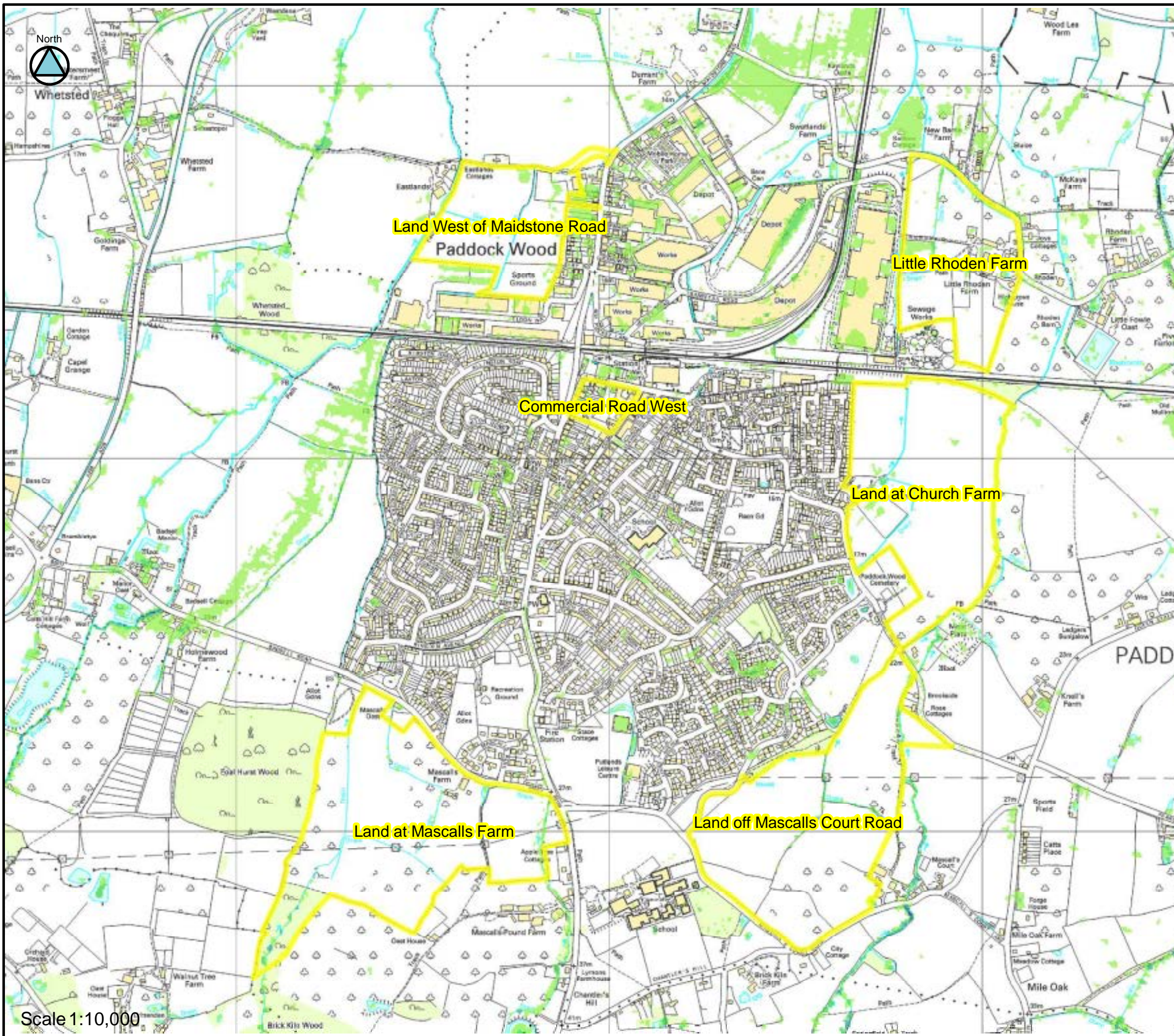
Client

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Map 11: Sub-catchments used for damage calculations



LEGEND

Potential Development Sites

Depth (m)

- < 0.05
- 0.05 - 0.25
- 0.25 - 0.5
- 0.5 - 1
- 1.0 - 1.5
- > 1.5

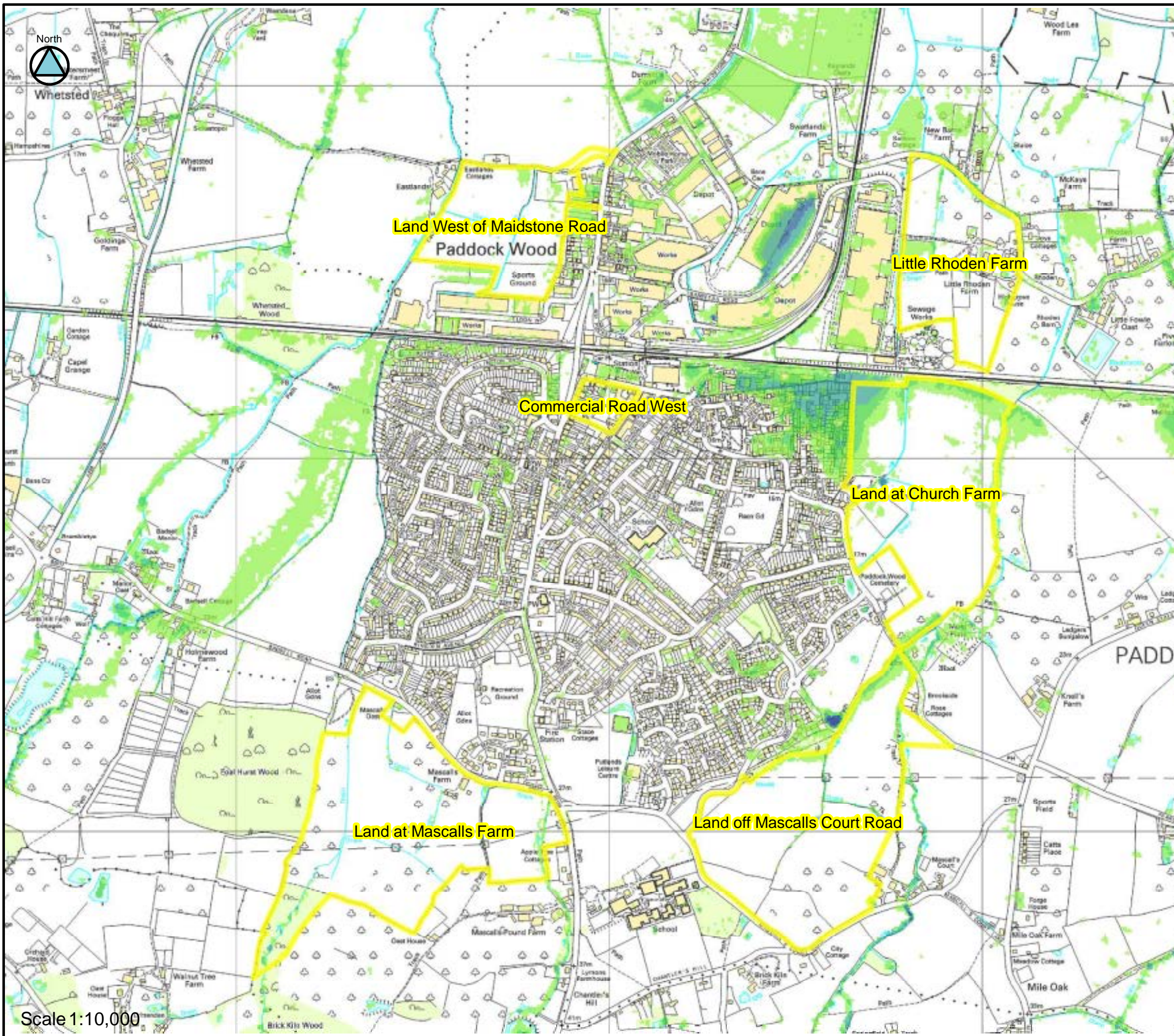
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PADDOCK WOOD SWMP
Map 13: Model results - Depth - 1 in 10 annual exceedance probability, 600 minute storm duration



LEGEND

Potential Development Sites

Depth (m)

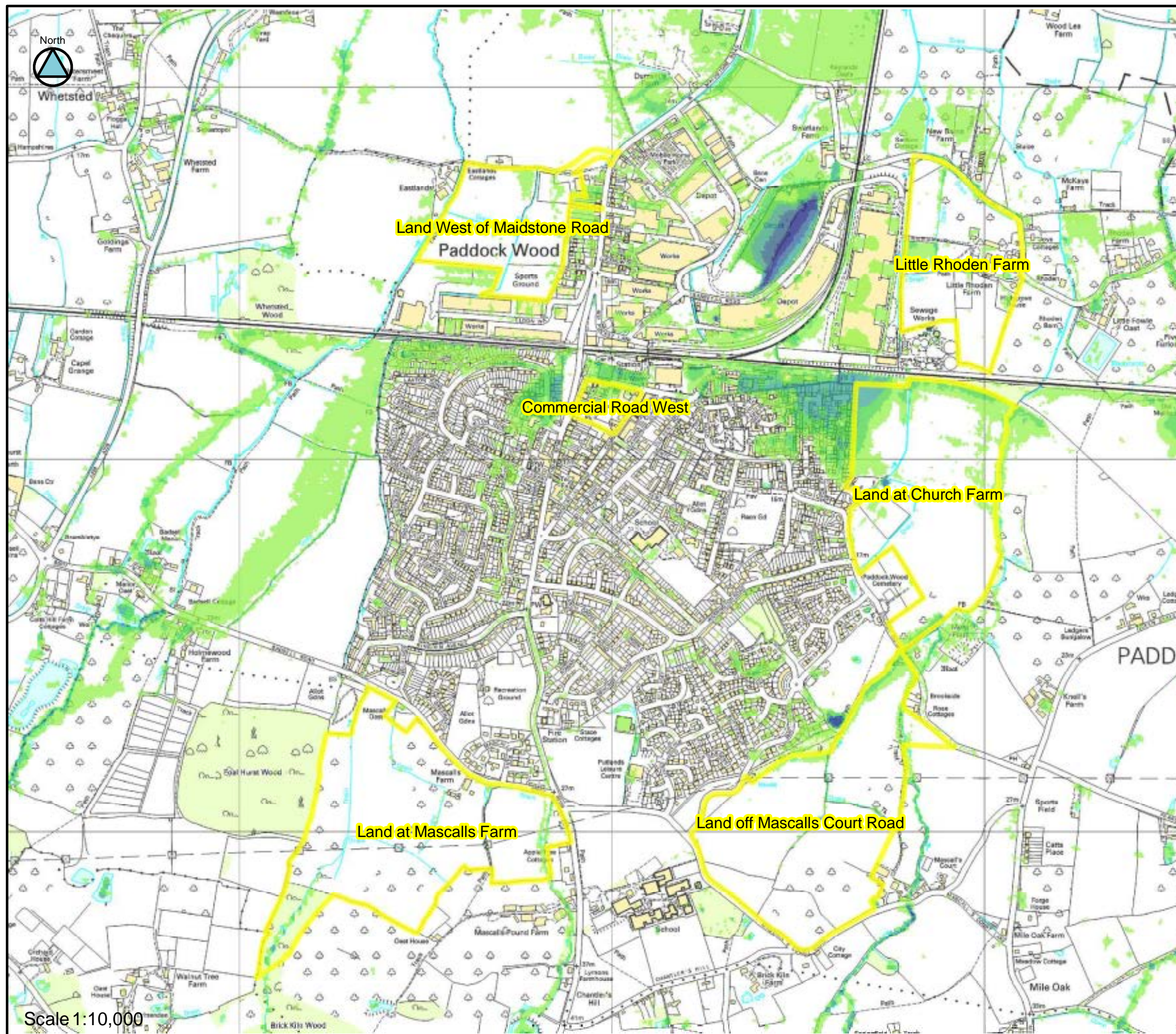
- < 0.05
- 0.05 - 0.25
- 0.25 - 0.5
- 0.5 - 1
- 1.0 - 1.5
- >1.5

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PADDOCK WOOD SWMP
Map 14: Model results - Depth - 1 in 30 annual exceedance probability, 600 minute storm duration

Scale 1:10,000



LEGEND

 Potential Development Sites

Depth (m)

< 0.05

0.05 - 0.25

0.25 - 0.5

0.5 - 1

1.0 - 1.5

> 1.5

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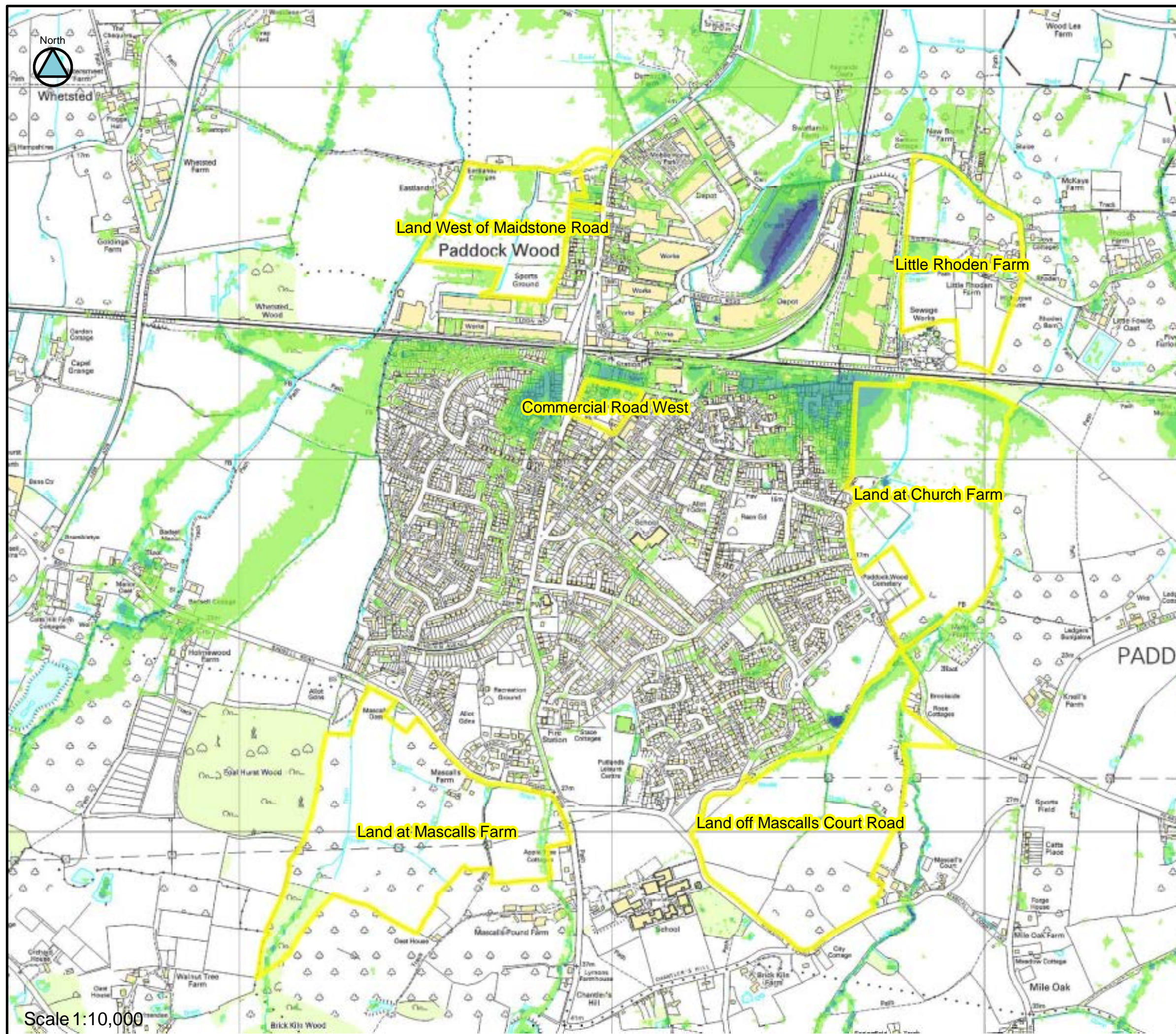
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PADDOCK WOOD SWMP
Map 15: Model results - Depth - 1 in
100 annual exceedance probability,
600 minute storm duration



LEGEND

Potential Development Sites

Depth (m)

< 0.05

0.05 - 0.25

0.25 - 0.5

0.5 - 1

1.0 - 1.5

>1.5

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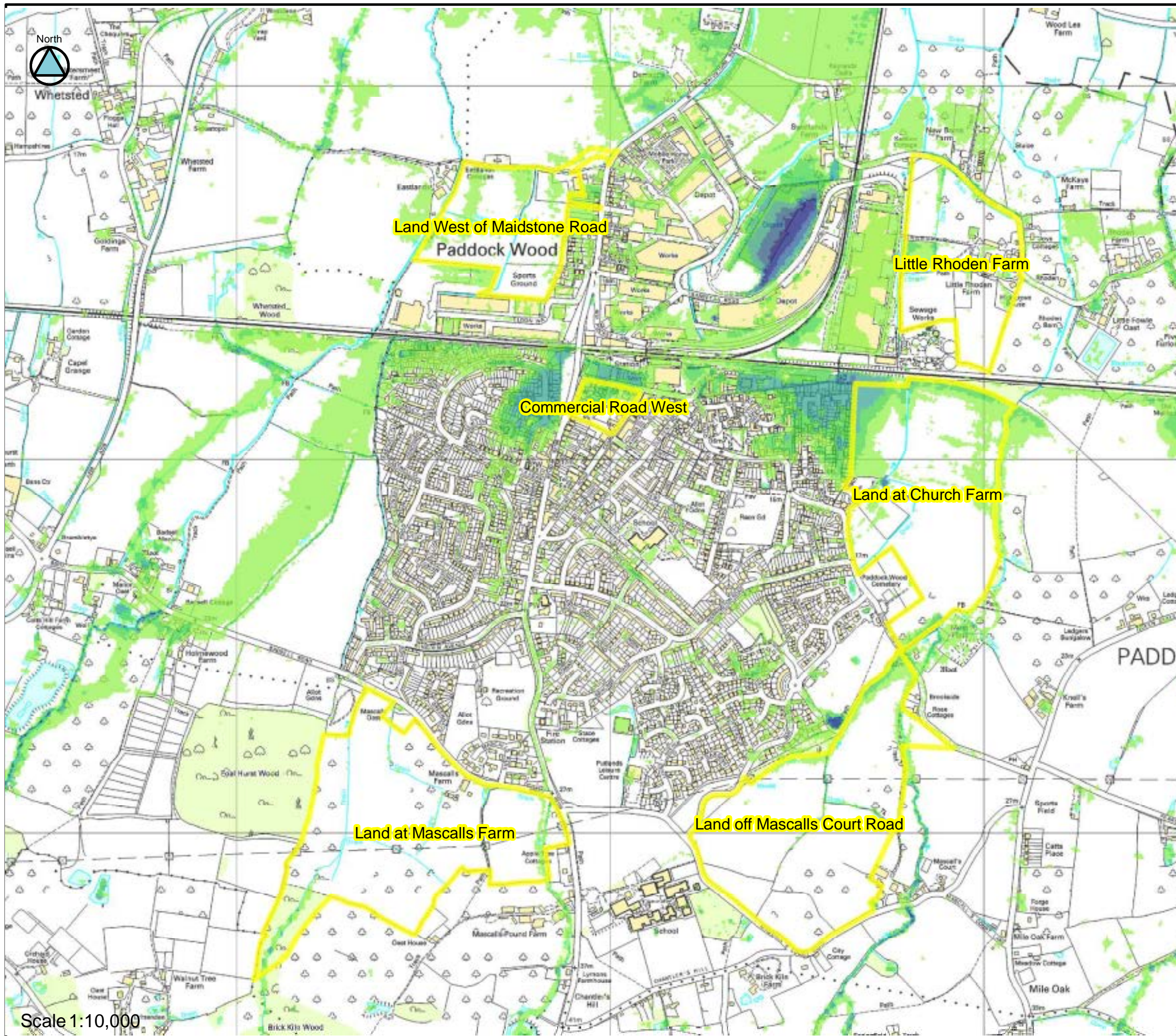
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PADDOCK WOOD SWMP
Map 16: Model results - Depth - 1 in
200 annual exceedance probability,
600 minute storm duration



LEGEND

Potential Development Sites

Depth (m)

< 0.05

0.05 - 0.25

0.25 - 0.5

0.5 - 1

1.0 - 1.5

>1.5

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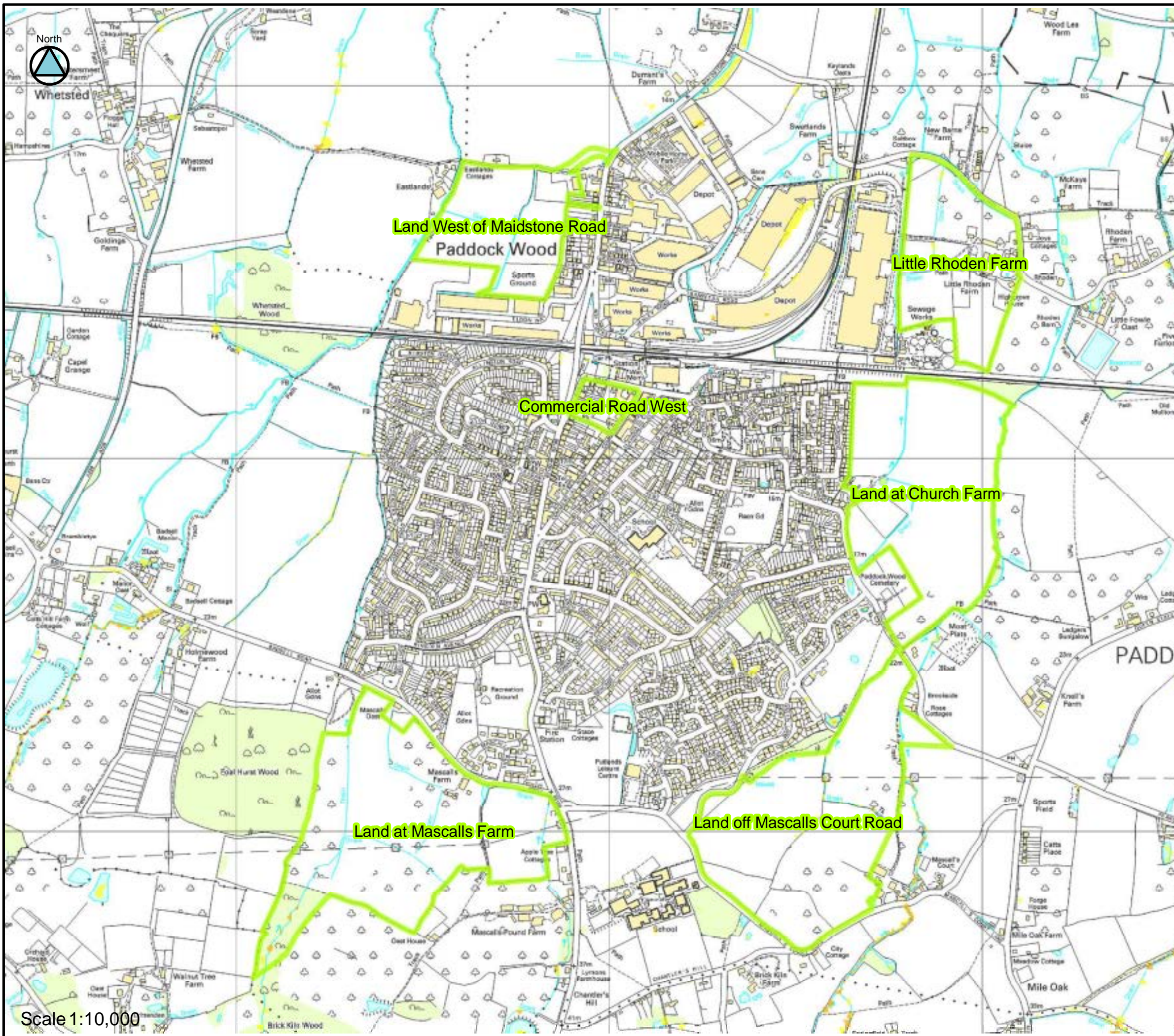
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PADDOCK WOOD SWMP
Map 17: Model results - Depth - 1 in
100 AEP plus Climate Change, 600
minute storm duration



LEGEND

Potential Development Sites

Hazard

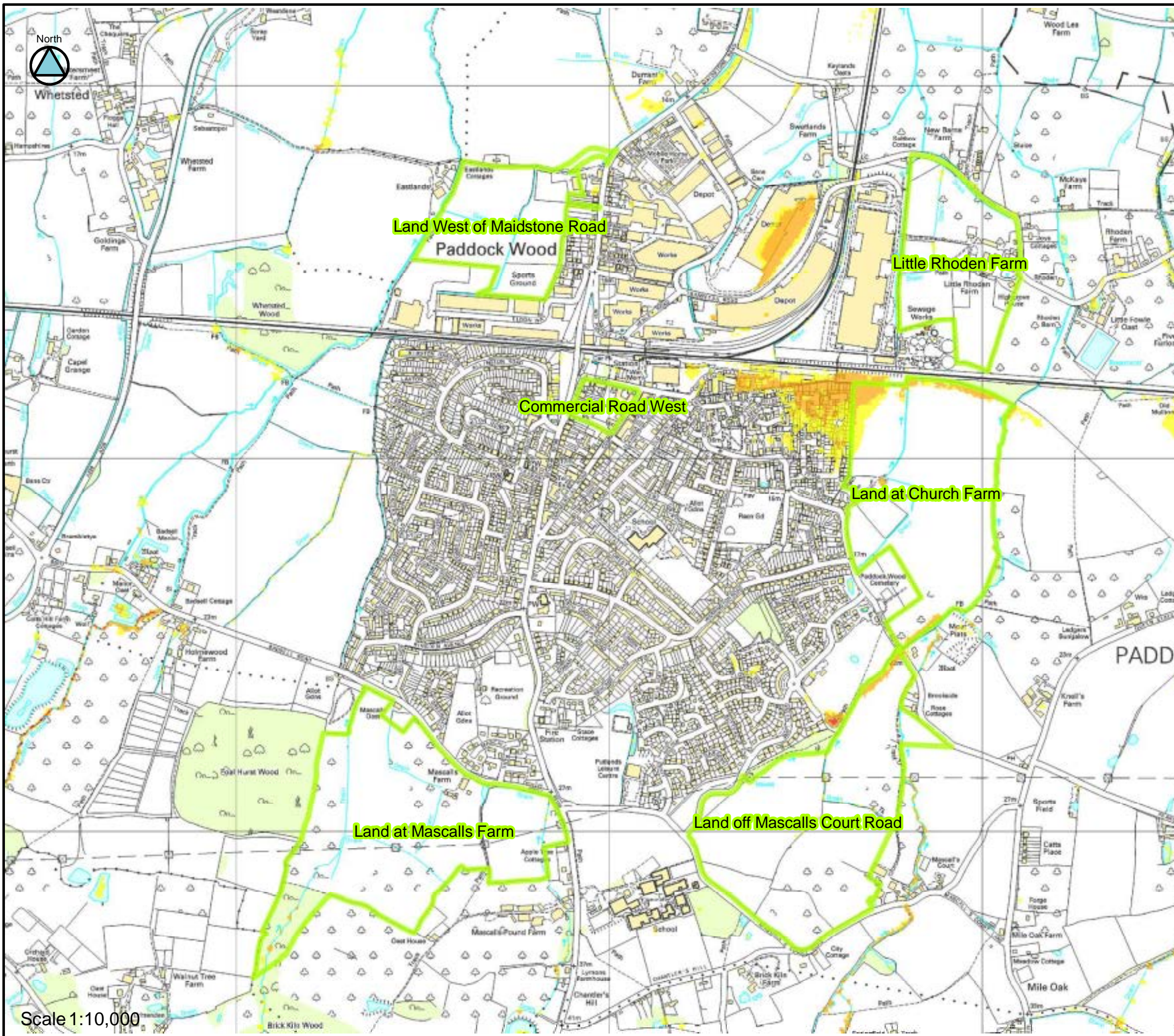
- Caution (Very low hazard)
- Moderate (Danger for some)
- Significant (Danger for most)
- Extreme (Danger for all)

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PADDOCK WOOD SWMP
Map 18: Model results - Hazard Rating
- 1 in 10 annual exceedance
probability, 600 minute storm duration

Scale 1:10,000



LEGEND

Potential Development Sites

Hazard

- Caution (Very low hazard)
- Moderate (Danger for some)
- Significant (Danger for most)
- Extreme (Danger for all)

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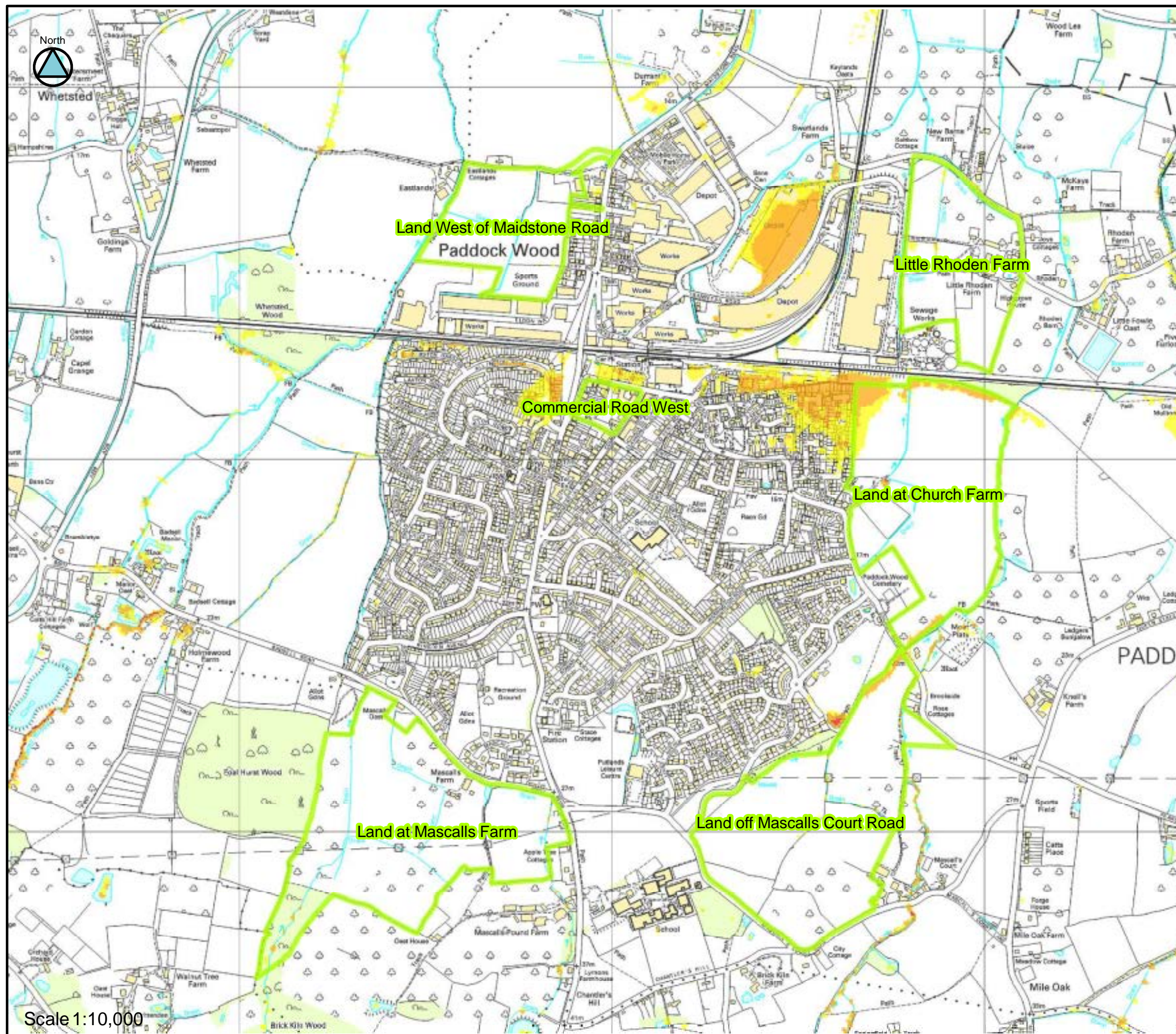
Client

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PADDOCK WOOD SWMP
Map 19: Model results - Hazard Rating
- 1 in 30 annual exceedance
probability, 600 minute storm duration

Scale 1:10,000



LEGEND

- Potential Development Sites
- Hazard**
 - Caution (Very low hazard)
 - Moderate (Danger for some)
 - Significant (Danger for most)
 - Extreme (Danger for all)

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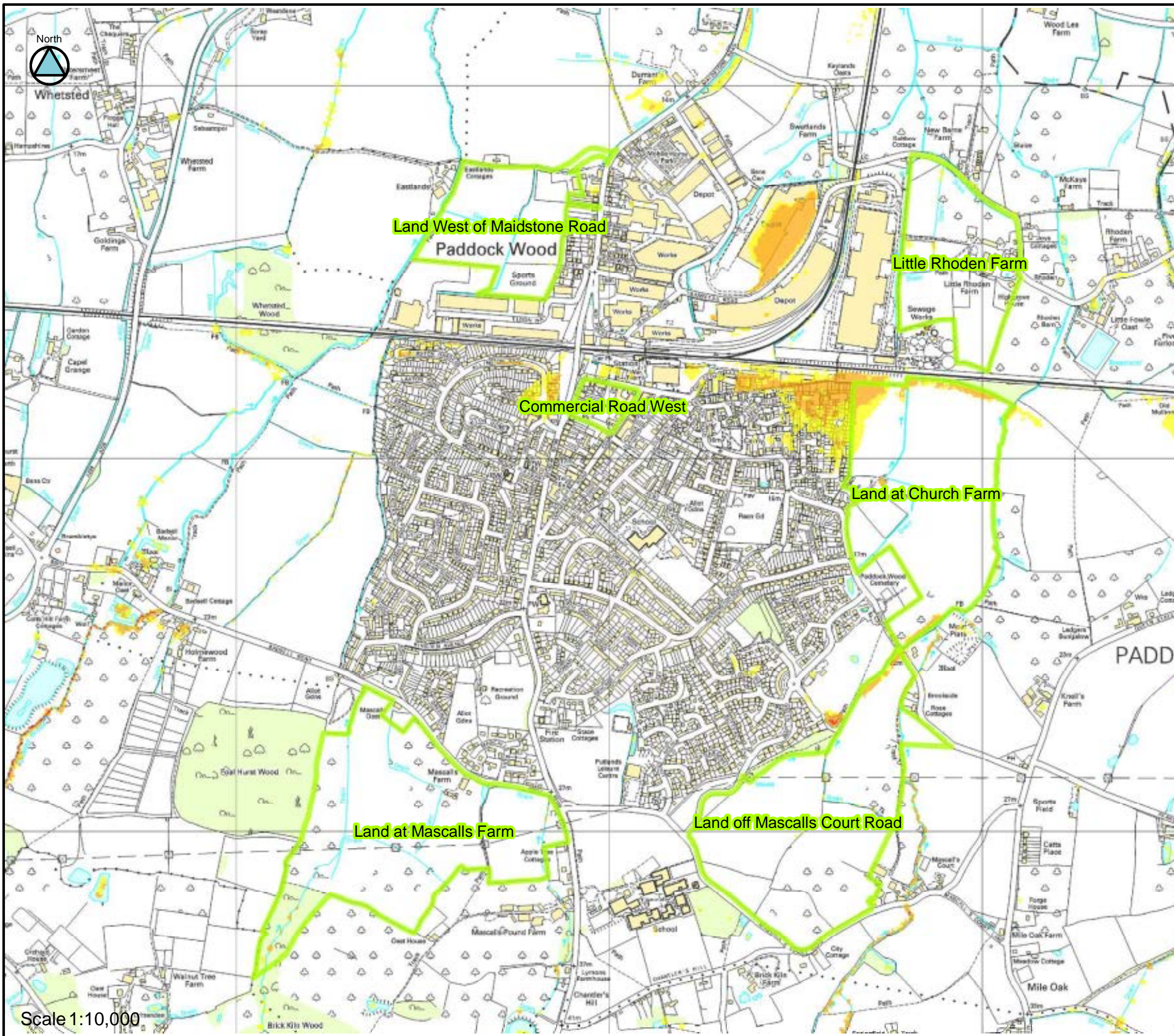


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PADDOCK WOOD SWMP
 Map 20: Model results - Hazard Rating
 - 1 in 100 annual exceedance
 probability, 600 minute storm duration

Scale 1:10,000



LEGEND

Potential Development Sites

Hazard

Caution (Very low hazard)

Moderate (Danger for some)

Significant (Danger for most)

Extreme (Danger for all)

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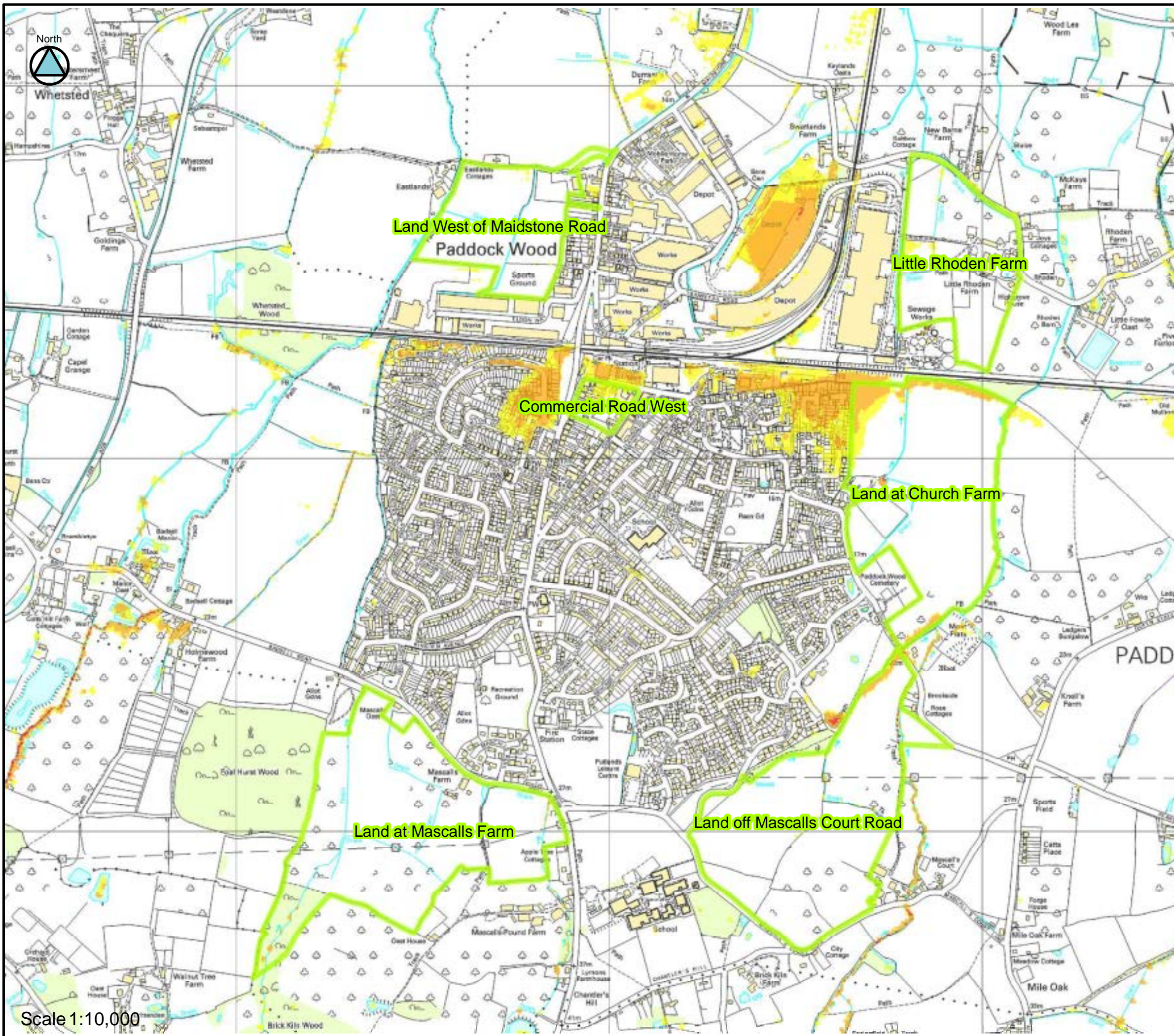
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PADDOCK WOOD SWMP
Map 21: Model results - Hazard Rating
- 1 in 200 annual exceedance probability, 600 minute storm duration

Scale 1:10,000



LEGEND

Potential Development Sites

Hazard

Caution (Very low hazard)

Moderate (Danger for some)

Significant (Danger for most)

Extreme (Danger for all)

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PADDOCK WOOD SWMP
Map 22: Model results - Hazard Rating
- 1 in 100 AEP plus Climate Change,
600 minute storm duration

Scale 1:10,000