

Tally Ho Public House, Fleet Hill, Eversley, Hook RG27 0RR

Reference: R0821 FRA-v1

Mar-25

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FLOOD RISK ASSESSMENT

Tally Ho Public House, Fleet Hill, Eversley, Hook RG27 0RR

Reference: R0821 FRA-vv1

Report Limitations

All comments and proposals contained in this report, including any conclusions, are based on information available to RIDA Reports during investigations. The conclusions drawn by RIDA Reports could therefore differ if the information is found to be inaccurate or misleading. RIDA Reports accepts no liability should this be the case, nor if additional information exists or becomes available with respect to this scheme.

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All Environment Agency mapping data used under special licence. Data is current as the data on the correspondence given by the Environment Agency and is subject to change.

The information presented and conclusions drawn are based on statistical data and are for guidance purposes only.

The study provides no guarantee against flooding of the study site or elsewhere, nor of the absolute accuracy of water levels, flow rates and associated probabilities.

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Purpose of this report

- 1.1 RIDA Reports Ltd has been appointed to undertake a Level 2 – Scoping Study Flood Risk Assessment for a development located at RG27 ORR.

Objectives

- 1.2 The objectives of this FRA are to demonstrate the following:
- Whether the proposed development will likely be affected by current or future flooding.
 - Whether the proposed development will increase flood risk elsewhere.
 - Whether the flood risks associated with the proposed development can be satisfactorily managed.
 - Whether the measures proposed to deal with the flood risk are sustainable.

Documents Consulted

- 1.3 To achieve these objectives, the following documents have been consulted and referenced:

The National Planning Policy Framework (NPPF)
CIRIA C753 document The SuDS Manual, 2015
Local Flood Risk Management Strategy (LFRMS)
Level 1 Strategic Flood Risk Assessment (SFRA)
Aerial photographs and topographical survey of the site
British Geological Society Records
Local Council flood Maps
Environment Agency flood maps
The CIRIA publication 'C635 Designing for exceedance in urban drainage Good practice'



Development Site and Location

- 2.1 The site is located at Fleet Hill, Eversley. The nearest postcode is RG27 0RR. Refer to appendix A for site location plan.
- 2.2 The current use of the site is the garden of the property. The current user vulnerability classification of the site is Water compatible. The site is located in the River Flood Zone 2. Refer to Appendix B for more details.

Development Proposals

- 2.3 The proposed development includes the extension of the property. Refer to Appendix B for the layout of the proposed development.
- 2.4 The vulnerability classification of the proposed development is More vulnerable with an estimated lifetime between 50 and 100 years.

Site Hydrology and Hydrogeology

- 2.5 **Hydrology** The Blackwater River is located approximately 80 m away from the development.
- 2.6 **Aquifer** The development is located within a secondary aquifer type A. Aquifers type A consist of permeable layers capable of supporting water supplies at a local rather than strategic scale. They are generally aquifers formerly classified as minor aquifers.
- 2.7 **Source Protection Zone** The site is not located within a Source Protection Zone.
- 2.8 **Groundwater Levels** The ground water levels for this site are unknown.

Site Geology

- 2.9 **Bedrock** The British Geological Survey records of the site show that it is located within the London Clay Formation - Clay, Silt and Sand.
- 2.10 **Superficial Deposits** The British Geological Survey records show that the superficial deposits are Alluvium - Clay, Silt, Sand and Gravel.



National Planning Policy Framework (NPPF)

- 3.1 The NPPF and its technical guidance is a set of planning policies with the key objective of contributing to sustainable development. As part of it, they ensure that flood risk and sustainability are considered during the planning process. This ensures that developments are not located in flood risk areas and directs developments to lower risk areas. The NPPF applies a sequential risk-based approach to determining land suitability for development in flood risk areas. The NPPF also encourages developers to seek opportunities to reduce the overall level of flood risk through the development layout and the application of Sustainable Drainage Systems (SuDS).

The Flood and Water Management Act (2010)

- 3.2 The Flood and Water Management Act aims to reduce the flood risk associated with extreme weather events. It provides robust flood risk management for people, homes and businesses and encourages using SuDS for developments. A robust SuDS strategy should consider the recommendations in this Flood Risk Assessment.

Strategic Flood Risk Assessment (SFRA)

- 3.3 Planning policy with regard to development and flood risk in the area is detailed in the Level 1 Strategic Flood Risk Assessment (L1SFRA) which was published in 2023. The proposed development site is located within the administrative boundary of the Wokingham Borough Council.
- 3.4 The SFRA commits to direct new development to locations at the lowest flood risk. The SFRA provides information on the levels and flood hazards that could result from flooding. The Environment Agency flood zone maps and the SFRA ignore the presence of existing flood defences when defining the potential extent of flooding.
- 3.5 This report follows the guidance given in the Level 1 Strategic Flood Risk Assessment by evaluating the flood risk and providing relevant flood mitigation.



- 4.1 The NPPF guidance states that the sequential test "is designed to ensure that areas at little or no risk of flooding from any source are developed in preference to areas at higher risk. This means avoiding, so far as possible, development in current and future medium and high flood risk areas considering all sources of flooding including areas at risk of surface water flooding."

Applicability of the Sequential Test

- 4.2 The flood risks were determined by identifying all the sources of flooding and assessing their possible impact and likelihood to development. It is confirmed that the development is:
- In Flood Zone 2, based on the Planning Flood Risk Map
 - In Flood Zone 2, based on the Flood Level information Provided by the Environment Agency
 - At High risk of surface flooding
 - At very low risk of groundwater flooding
 - Outside of a critical drainage area
 - Outside of an area with sewer flooding

- 4.3 This type of development is exempt from applying the sequential test as per the National Planning Policy Framework paragraph 174, footnote 60. The development has been made safe and has not increased the risk to other properties. See copy of note below "(60) This includes householder development, small non-residential extensions (with a footprint of less than 250m²) and changes of use; except for changes of use to a caravan, camping or chalet site, or to a mobile home or park home site, where the sequential and exception tests should be applied as appropriate."

Exception Test

- 4.4 Fluvial flood risk for this minor development was assessed using the Environment Agency Flood Zone Maps and the standing advice approach recommended in the NPPF guidelines. The standing advice considers the development's size and the flood risk vulnerability of land use.
- Step 1 4.5 The proposed development falls within The Environment Agency (EA) Flood Zone 2. The Flood Zone 2 is considered to have a medium probability of flooding with a 1000 to 100 years annual probability or 0.1-1.0%AEP.
- Flood Zone categorisation



Step 2

4.6

The Exception Test is not required for this development.

The Exception Test



- 5.1 The development has been assessed for the following potential flood risks, river and tidal flood risk, surface water flooding, flooding from groundwater, reservoir flood risk and drainage systems.

Flood Defence and Historic Flooding

- 5.2 The Environment Agency records show that the site does not benefit from flood defences. They also show that the area around the site has potentially been flooded in the past. This data does not indicate if a property has been flooded internally. See Appendix C for details.

Flooding from river and sea

- 5.3 The site is affected by River Flooding. The proposed development falls within The Environment Agency (EA) Flood Zone 2. The Flood Zone 2 is considered to have a medium probability of flooding with a 1000 to 100 years annual probability or 0.1-1.0%AEP.
- 5.4 The climate change allowance has been taken from the EA peak river flow map. The vulnerability of the development, the design life of the building, and the flood zone classification were used to determine it. The climate change allowance for this site is 14%. The nearest climate change allowance of 20% provided by the EA was used as the most representative to complete this assessment.
- 5.5 The levels provided by the Environment Agency are shown in table 1 below. Further details are provided in Appendix D.

Flood levels in channel		Flood levels at Site	
Return Period	Flood Level (m AOD)	Return Period	Flood Level (m AOD)
1 in 20 (5%)	48.69	1 in 20 (5%)	NIL
1 in 30 (3.3%)	NIL	1 in 30 (3.3%)	NIL
1 in 100 (1%)	48.887	1 in 100 (1%)	49.005
1 in 100 + 20%(CC)	48.981	1 in 100 + 20%(CC)	49.111
1 in 1000 (0.1%)	49.162	1 in 1000 (0.1%)	49.325

- 5.6 The river flood risk level is 49.111m AOD. This level is 0.39 m lower than the site level. This flood level does not have an impact on the finished floor levels



of development.

Surface water (overland flows) flood risk

5.7

The Environment Agency maps show that the flood risk from surface water is high. The residual risk of localised deep ponding remains highly likely. The Environment Agency surface water flood risk maps are defined through a specific procedure based on digital terrain models and assumptions regarding infiltration and urban drainage losses. The surface water flood maps are determined by the Environment Agency as follows:

5.8

"The nationally produced surface water flood mapping only indicates where surface water flooding could occur due to local rainfall. It does not fully represent flooding that occurs from:

- Ordinary watercourses
- Drainage systems or public sewers caused by catchment-wide rainfall events
- Rivers
- Groundwater

Due to the modelling techniques, the mapping picks out depressions in the ground surface. It simulates some flow along natural drainage channels, rivers, low areas in floodplains, and flow paths between buildings. Although the maps appear to show flooding from ordinary watercourses, they should not be taken as definitive mapping of flood risk from these as the conveyance effect of ordinary watercourses or drainage channels is not explicitly modelled. Also, structures (such as bridges, culverts and weirs) and flood risk management infrastructure (such as defences) are not represented.

The nationally produced surface water flood mapping does not consider the effect of pumping stations in catchments with pumped drainage. No allowance is made for tide locking, high tidal or fluvial levels where sewers cannot discharge into rivers or the sea."

5.9

The strategic flood risk for the Wokingham Borough Council confirms that the flood risk for the site is High. The surface water flood data has not been produced to determine the flood levels at individual properties. This data does not contain the climate change allowances for depth levels. Therefore, the Design flood level given below is an assumption. The new development may have greater or lower surface water flood depths.

5.10

Based on the Environment Agency and the Strategic flood risk assessment's surface water mapping, together with the presence of surface water drainage systems at the site and surrounding area, it is concluded that the site is at High risk of flooding from surface water sources. The depth of water is potentially below 300mm. For this assessment, a depth of water of 0.2m has been taken



as the most appropriate depth to the site, this depth has been derived from rofsw_cc01 dataset and includes the effects of climate change. The average ground level at the site is 48.58m AOD. The surface water flood level on this site could be in the region of 48.78m AOD.

Flooding from drainage systems in adjacent areas

- 5.11 The council's database confirms that there are no records of sewer flooding within the site. The site is located outside of the sewer flooding incidents area. See appendix C for details.

Reservoirs Risks

- 5.12 The Reservoir Flood Map (RFM) produced by the Environment Agency does not show the risk to individual properties of dam breach flooding. The maps do not indicate or relate to any particular probability of dam breach flooding. The maps were prepared for emergency planning purposes. They can be used to help reservoir owners produce on-site plans, and the Local Resilience Forum produce off-site plans and to prioritise areas for evacuation/early warning in the event of a potential dam failure. The RFM shows that the development could be outside of the possible dam breach flooding path. See Appendix C.

Groundwater flood risk

- 5.13 The British Geological Survey's flood risk susceptibility maps show that the development has limited susceptibility to groundwater flooding. The risk of groundwater flood to the site is considered very low. Refer to appendix C for record drawings.

Critical Drainage Areas

- 5.14 The development does not fall within a critical drainage area.



6.1 The Flood hazard assessment has demonstrated that the site is:

- In Flood Zone 2, based on the Planning Flood Risk Map
- In Flood Zone 2, based on the Flood Level information Provided by the Environment Agency
- At High risk of surface flooding
- At very low risk of groundwater flooding
- Outside of a critical drainage area
- Outside of an area with sewer flooding

6.2 Under the NPPF it is necessary to demonstrate that, for any new development on the site, it is possible to provide an adequate level of flood protection for personnel working or living at the development.

Design Flood Level

6.3 The design flood level is the maximum estimated water level during the design storm event including an allowance for climate change in line with current best practice and the national planning policy guidance.

6.4 The Design Flood Level for this development has been determined by evaluating the levels from the Fluvial/Sea, Surface Water and Groundwater flood levels.

6.5 For this site, the Design Flood Level is 49.111m AOD. This is the highest level and corresponds to the River/Sea Flood Level.

Flood Protection

6.6 The National Planning Guidance standing advice and Environment Agency recommends that where possible, flood avoidance is provided by establishing the development's finished floor level 600mm above (freeboard) the design flood level. However, this level can be reduced if there is a high level of certainty about the estimated flood level. For this site the estimated free board has been determined to be 0.3m above the Design Flood Level due to the quality of the flood risk information available and the type of risk. The finished floor should be 49.41m AOD. The site already complies with this level as the average level is 49.5 m AOD.

6.7 The Strategic Flood Risk Assessment shows that the site is outside of an area of sewer flooding, therefore no mitigation on sewer flood is required.



7.1

The NPPF specifically stipulates that consideration should be given to potential off-site flood impacts of any proposed development. These off-site impacts are in relation to the following:

- Surface water management
- Flood flow conveyance, storage and climate change

Surface Water Management

7.2

The surface water run-off will be disposed of using SuDS techniques. The aim is to provide a sustainable design that accommodates the proposed attenuation volume and replicates the existing drainage regime using the SuDS hierarchy, as shown in the figure below.

7.3

The Landis Top Soil classification is naturally wet. The SuDS techniques highlighted in red below could be used on-site. This assessment is based on the LANDIS Top Soil infiltration, ground conditions and available potential discharge points.

The SuDS Hierarchy (Source:EA Thames region, SuDS a practical guide)

Most Sustainable	SuDS technique	Flood Reduction	Pollution Reduction	Landscape & Wildlife Benefit
↑	Living roofs	✓	✓	✓
	Basins and ponds	✓	✓	✓
	- Constructed wetlands			
	- Balancing ponds			
	- Detention basins			
	- Retention ponds			
	Filter strips and swales	✓	✓	✓
	Infiltration devices	✓	✓	✓
	- soakaways			
	- infiltration trenches and basins			
	Permeable surfaces and filter drains	✓	✓	
	- gravelled areas			
	- solid paving blocks			
	- porous paviers			
Least Sustainable	Tanked systems	✓		
	- over-sized pipes/tanks			
	- storms cells			

7.4

With no increase in the rate of surface water discharge from the site, compared to the site in its current configuration, the proposed development would have no adverse impact on surface water flood risk at the site or surrounding area. The SuDS should be designed at the detailed project stage.



Flood Flow conveyance and storage

- 7.5 Due to the size of the development and its location in the flood zone, flood compensation for this development is not required.
- 7.6 The proposed development will not affect flood flow conveyance through the site or the surrounding area. It is concluded that there will be no impact on flood risk in the surrounding area.



- 8.1 This flood risk assessment has identified the potential flooding mechanisms that could affect the site. As part of this, the following residual risks have been evaluated.

Public safety and Site Access

- 8.2 This assessment has demonstrated that the proposed development will have no adverse impact on flood risk in the area surrounding the site. Available evidence indicates that the development would not change surface water generation. Therefore, there is no basis to indicate that, with respect to flood risk, the proposed development would adversely impact public safety.
- 8.3 It will be necessary to ensure that all building users are fully informed of procedures to be implemented during the threat of imminent flooding.

Flood Warning and evacuation

- 8.4 The site is located within an area covered by the Environment Agency Flood Alert service. It is recommended that the users of the proposed development are registered with this service to receive early warning of imminent flooding.
- 8.5 The occupants of the site are encouraged to sign up for the alerts. The Table 4 below shows the actions that must be taken for each flood warning.
- 8.6 Action to be taken in the event of an Alarm being Raised or a Flood Warning Received:
- Raise the alarm and evacuate the site following the established Fire Drill procedures. The main assembly is as per the main house fire drill assembly point.
 - Contact Emergency Fire Services (999) if necessary and Environment Agency Floodline: (0845 988 1188) if the event is unexpected.
 - If safe to do so, locate and turn off critical services, e.g. water, gas & electricity.
 - Follow the routes below to evacuate the site altogether.



Actions that will be taken for each flood warning

Warning	Message	Timing	Action
 FLOOD ALERT	Flooding is possible. Be prepared.	2 hours to 2 days in advance of flooding.	- Be prepared for flooding. - Prepare a flood kit.
 FLOOD WARNING	Flooding is expected. Immediate action required.	Half an hour to 1 day in advance of flooding.	- Act now to protect your property. - Block doors with flood boards or sandbags and cover airbricks and other ventilation holes. - Move pets and valuables to a safe place. - Keep a flood kit ready. - Move any critical equipment and information to a safe location
 SEVERE FLOOD WARNING	Severe flooding. Danger to life.	When flooding poses a significant threat to life and different actions are required.	- Be ready should you need to evacuate from the property. - Co-operate with the emergency services and call 999 if you are in immediate danger.
Warning Removed	No further flooding is currently expected for your area.	Issued when a flood warning is no longer in force.	- Flood water may still be around and could be contaminated. - If you've been flooded, ring your buildings and contents insurance company as soon as possible.

Useful local phone numbers

Please write your local phone numbers in the space provided below.
Make sure they are easy to find in the event of a flood.

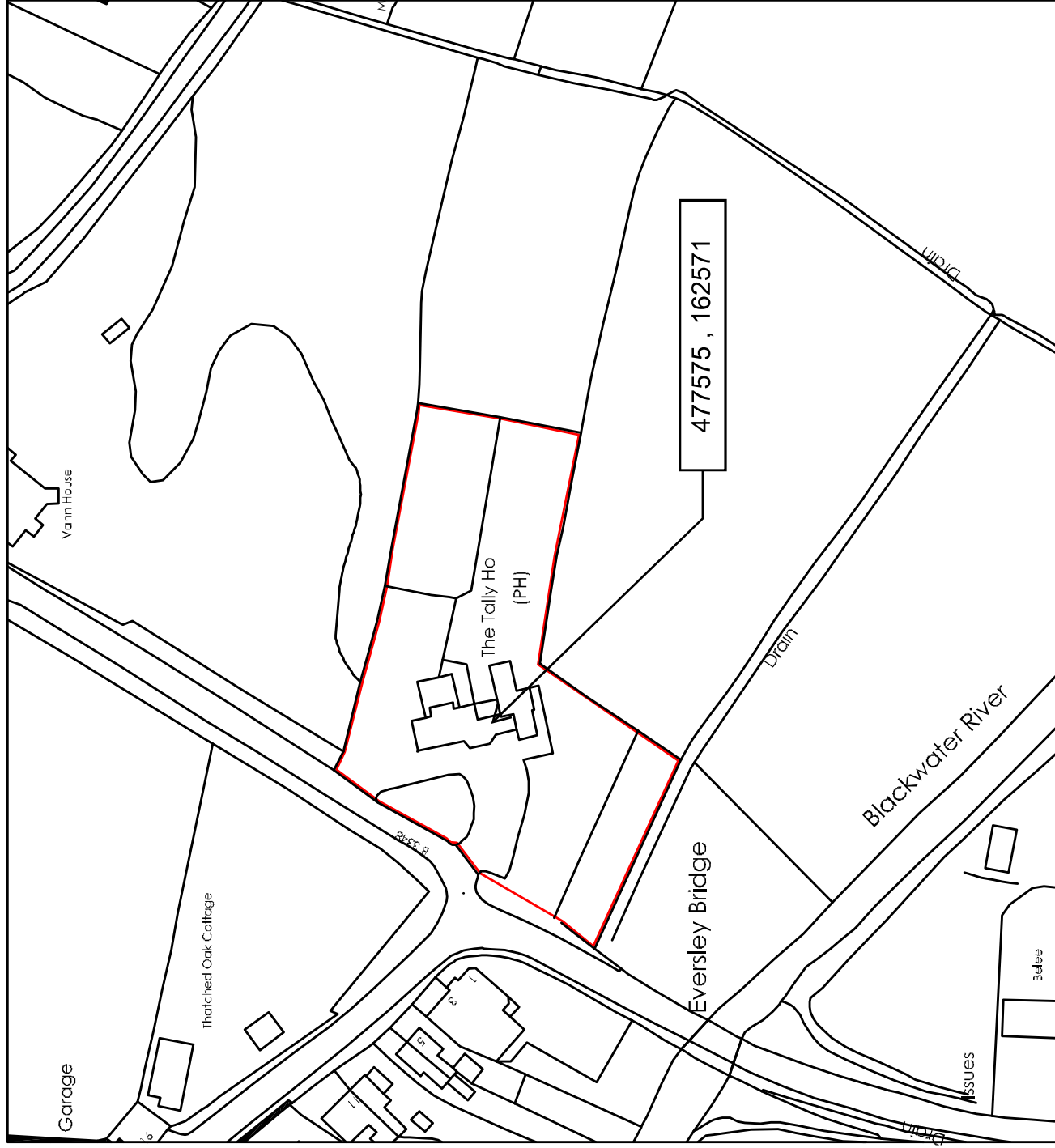
	Local authority:
	Local police:
	Gas and electricity company:
	Insurance company and policy details:
	Doctor:
	Pharmacy:
	Electrician:
	Gas safe engineer:
	Plumber:
	Builder:



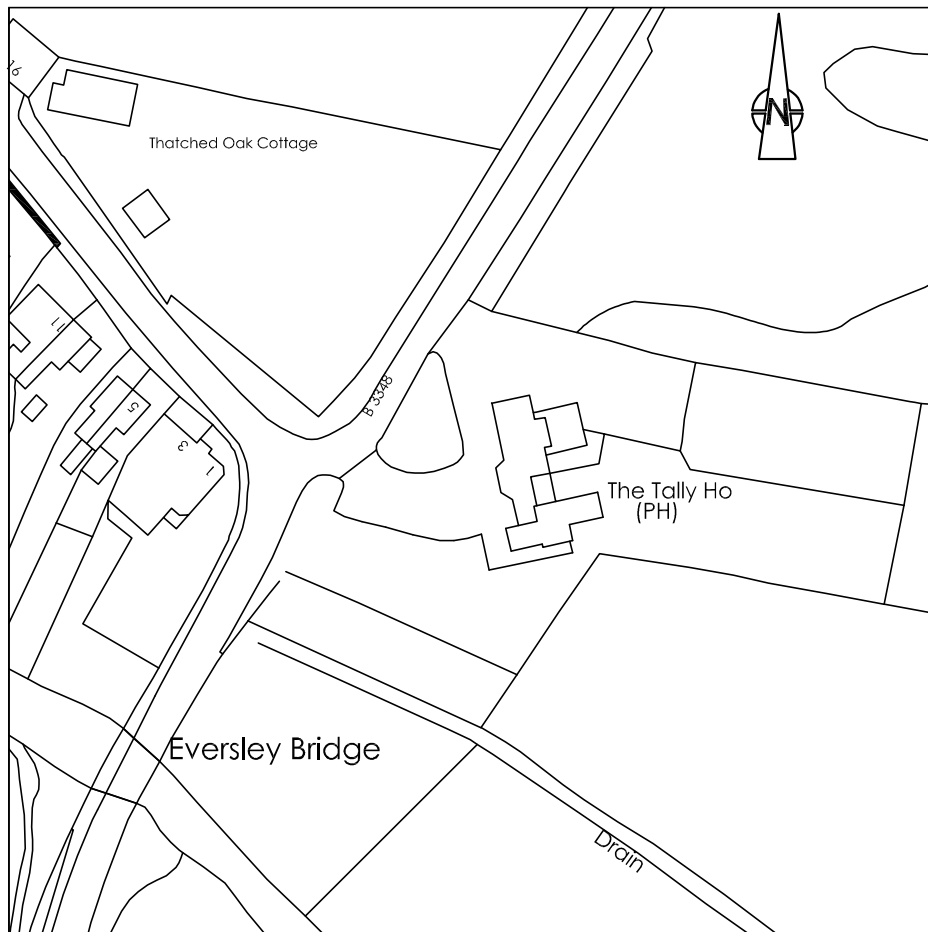
- 9.1 It is concluded that subject to the proposed mitigation measures, the site can be developed in accordance with the provisions of the NPPF and the requirements of the Environment Agency and the local planning authority.
- 9.2 This report demonstrates that the proposal will be safe, in terms of flood risk, for its design life and will not increase the flood risk elsewhere.
- 9.3 It is proposed that a formal Flood Warning and Emergency Response Plan is developed for the proposed development to communicate flood emergency response procedures to all the occupants of the site.



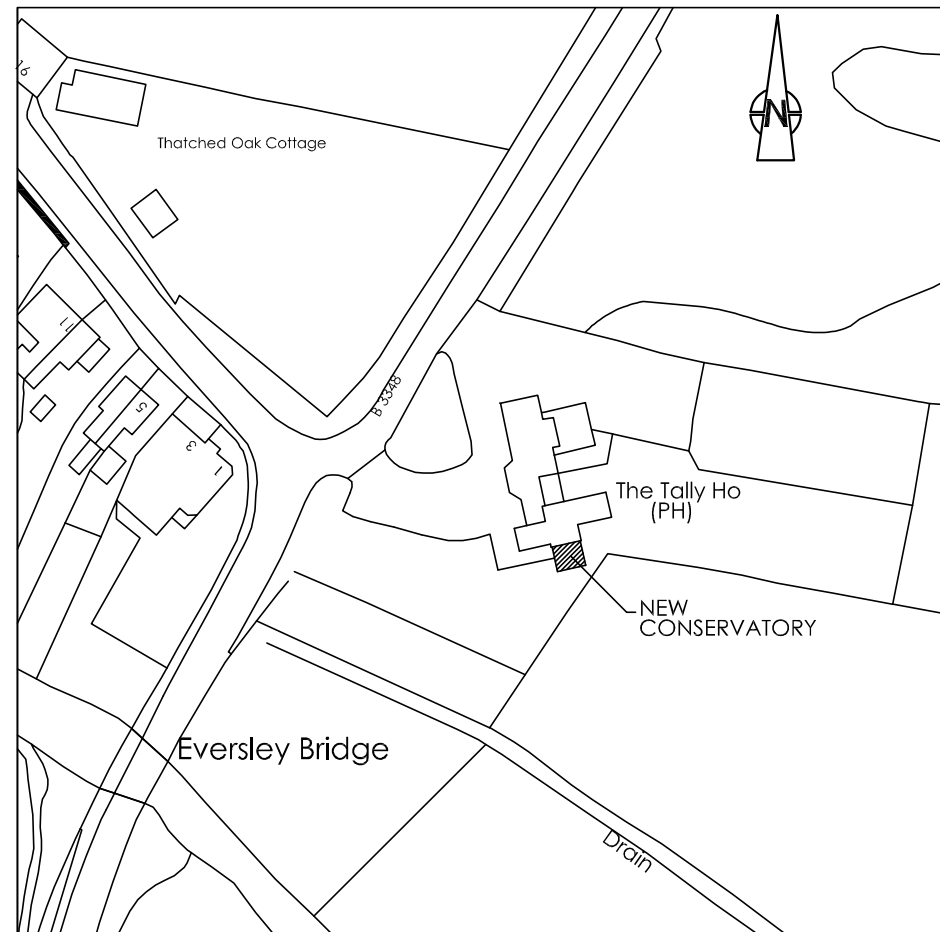
Appendix A



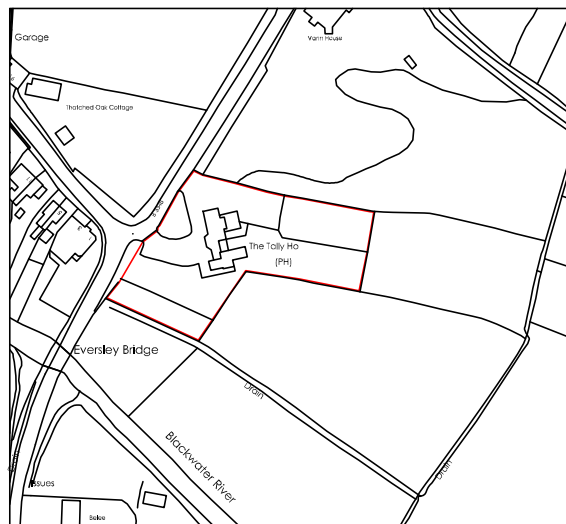
Appendix B



EXISTING BLOCK PLAN
SCALE 1:500



PROPOSED BLOCK PLAN
SCALE 1:500

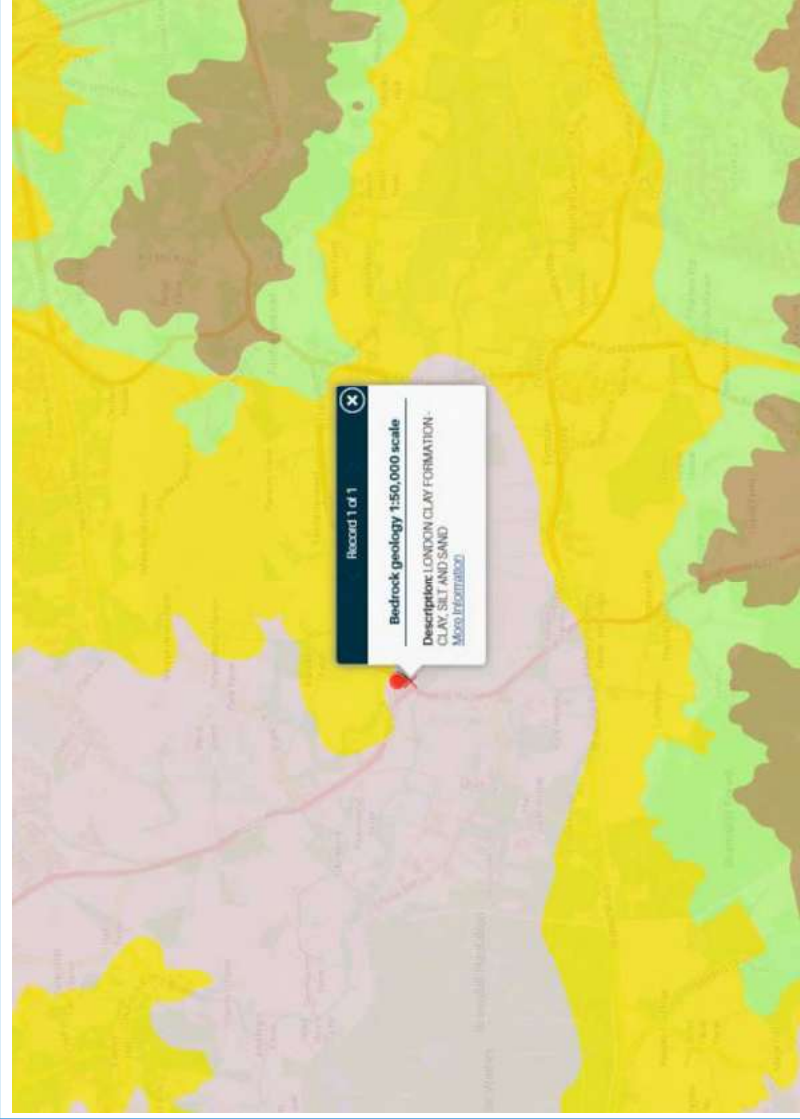


Ordinance Survey Map 1:1250

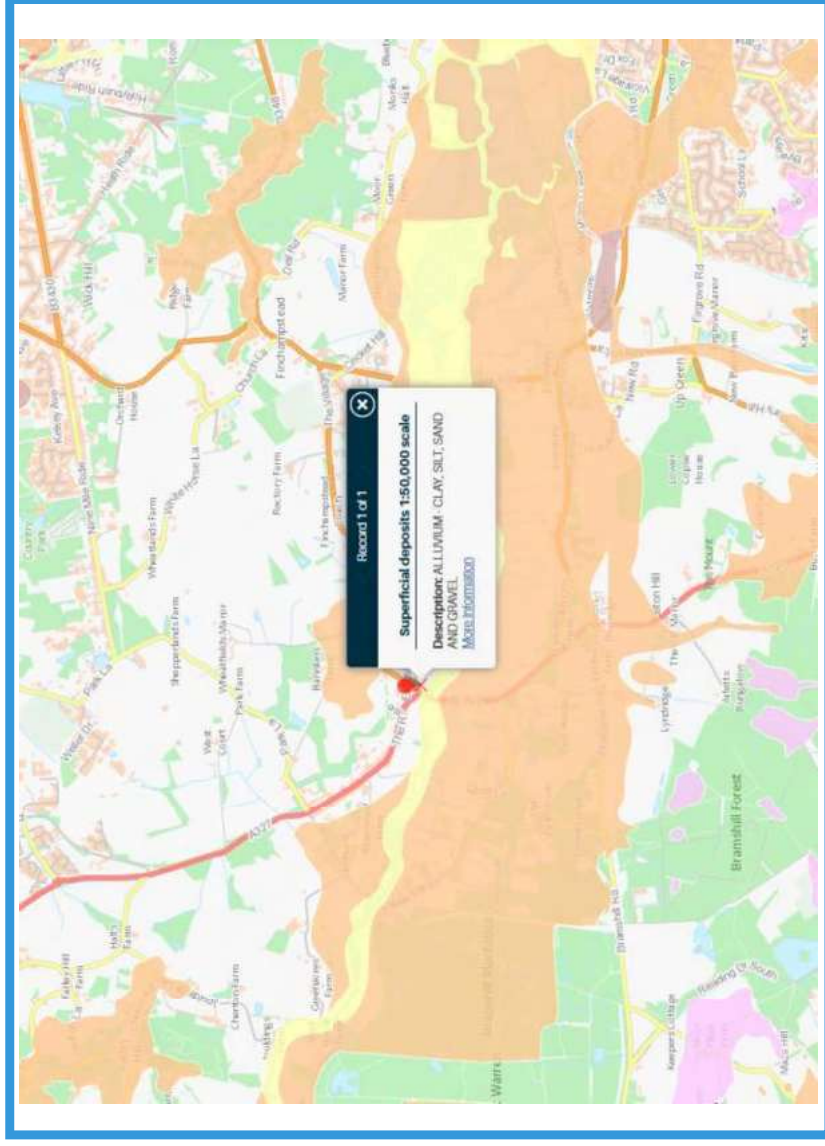
No.	Rev.	Initial	Date
Project: BLUEBECKERS THE TALLY HO FLEET HILL EVERSLEY, BERKSHIRE			
Description: EXISTING & PROPOSED BLOCK PLAN			
Drawing not to be scaled. Dimensions indicated must be checked on site before manufacture by contractor. any discrepancy should be reported immediately.			
DRN:	TMD	DRG. No.	204/07/13
SCALE	1:500/1:1250	REV.	
DATE	JULY 2010		
THOMAS MOSS Architectural Design & Surveying Services Summit House, Horsecroft Road, The Pinnoles, Holford, Essex, CM119 5BN Tel/Fax: 01279 436168.			

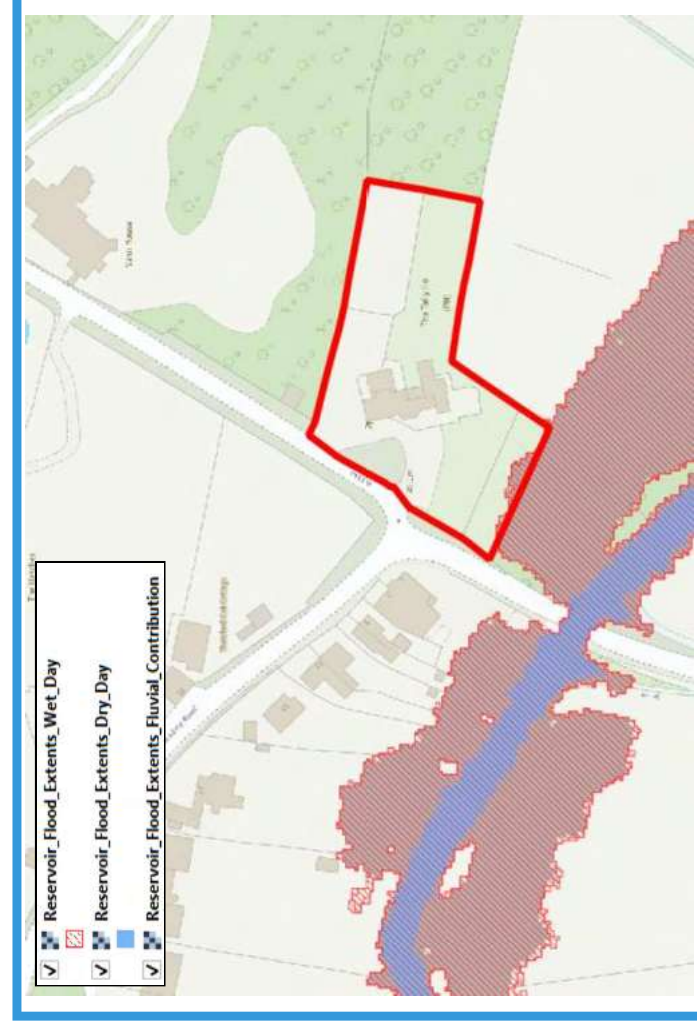
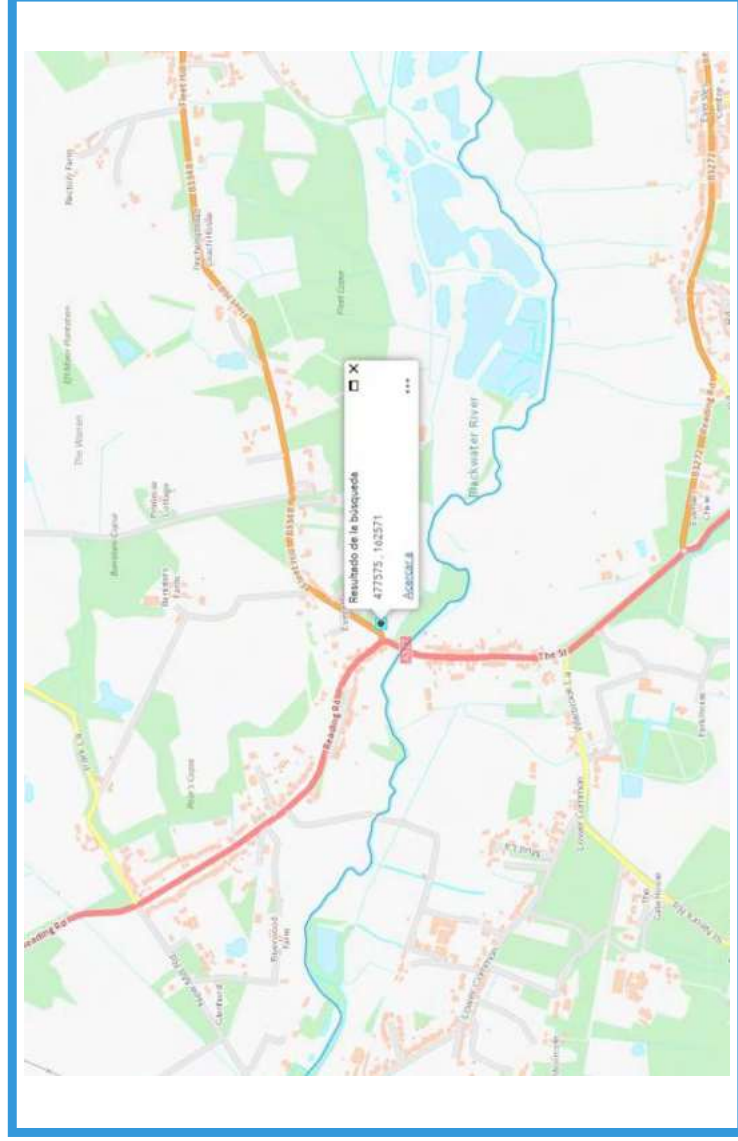
Appendix C

GEOLOGY - BEDROCK - LONDON CLAY FORMATION - CLAY, SILT AND SAND



GEOLOGY - SUPERFICIAL DEPOSITS - ALLUVIUM - CLAY, SILT, SAND AND GRAVEL





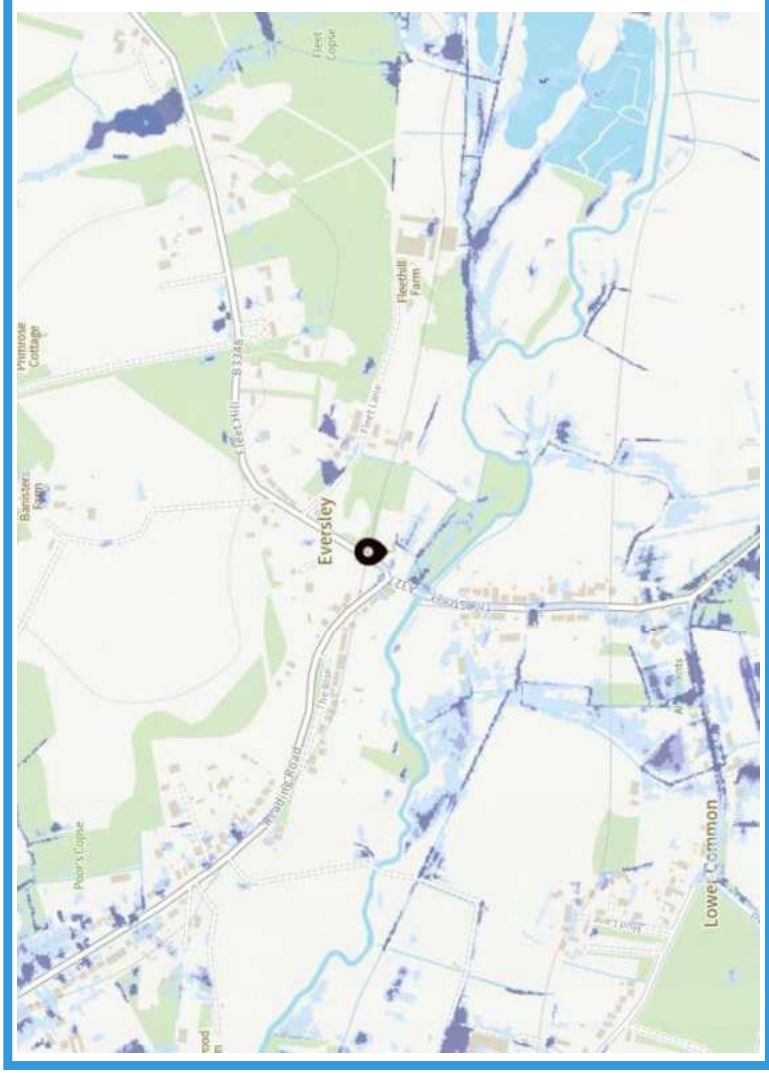
When river levels are normal

When there is also flooding from rivers



SITE SURFACE WATER FLOOD RISK

High risk means a chance of flooding greater than 3.3% (1:30)
 Medium risk means a chance of flooding of btw 1% (1:100) and 3.3%
 Low risk means a chance of flooding of btw 0.1% (1:1000) and 1%
 Flooding from surface water is difficult to predict as rainfall location and volume are difficult to forecast. In addition, local features can greatly affect the chance and severity of flooding



Yearly chance of flooding
between 2040 and 2060



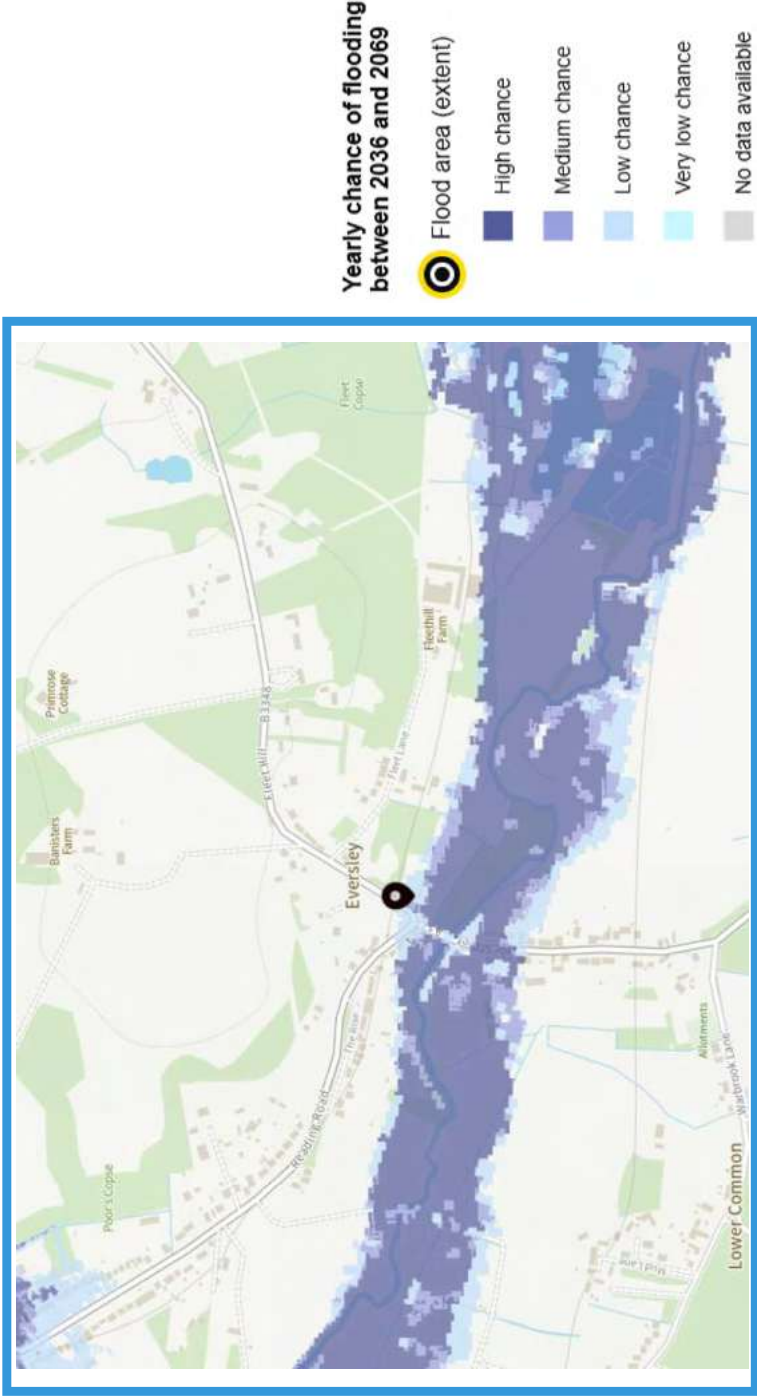
High chance
 Medium chance
 Low chance

DEPTH



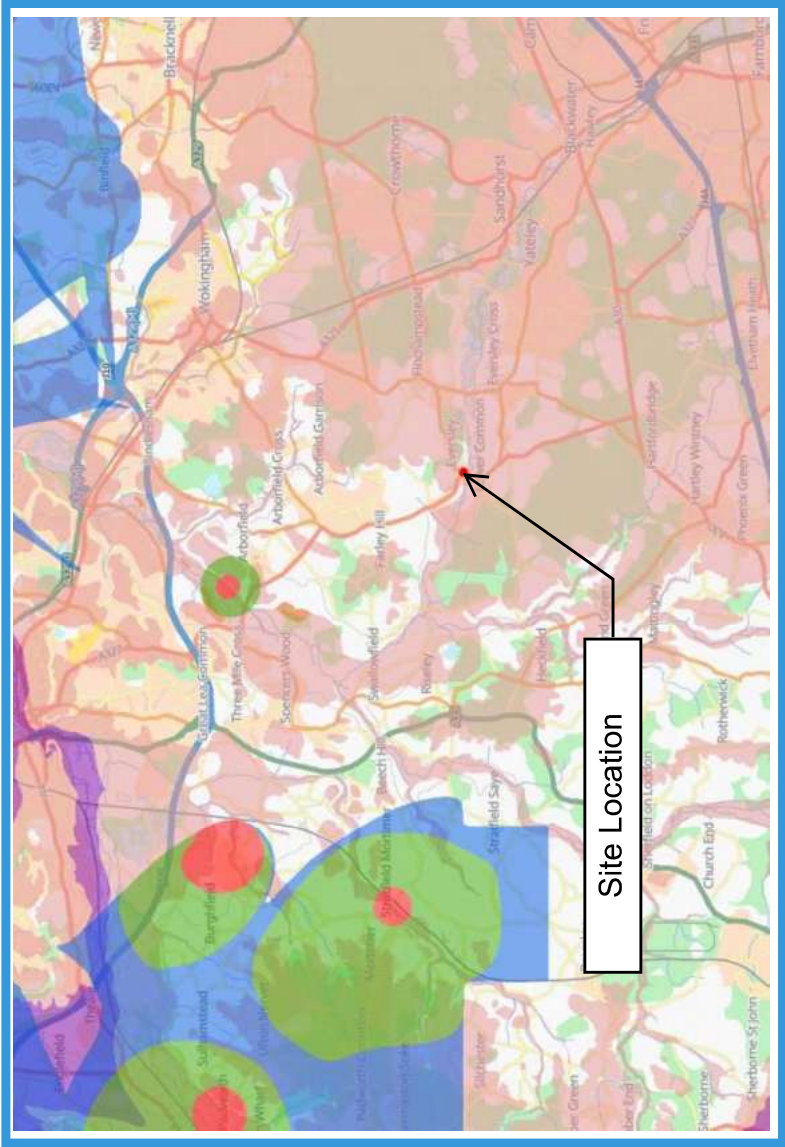
RIVER AND SEA FLOOD RISK MAP

- High - greater than or equal to 1 in 30 (3.3%) chance of flooding in any year
- Medium -Less than 1 in 30 (3.3%) but greater than or equal to 1 in 100 (1%) chance of flooding in any given year
- Low -Less than 1 in 100 (1%) but greater than or equal to 1 in 1000 (0.1%) chance of flooding in any given year
- Very low -less than 1 in 1000 (0.1%) chance of flooding in any given year



DEPTH





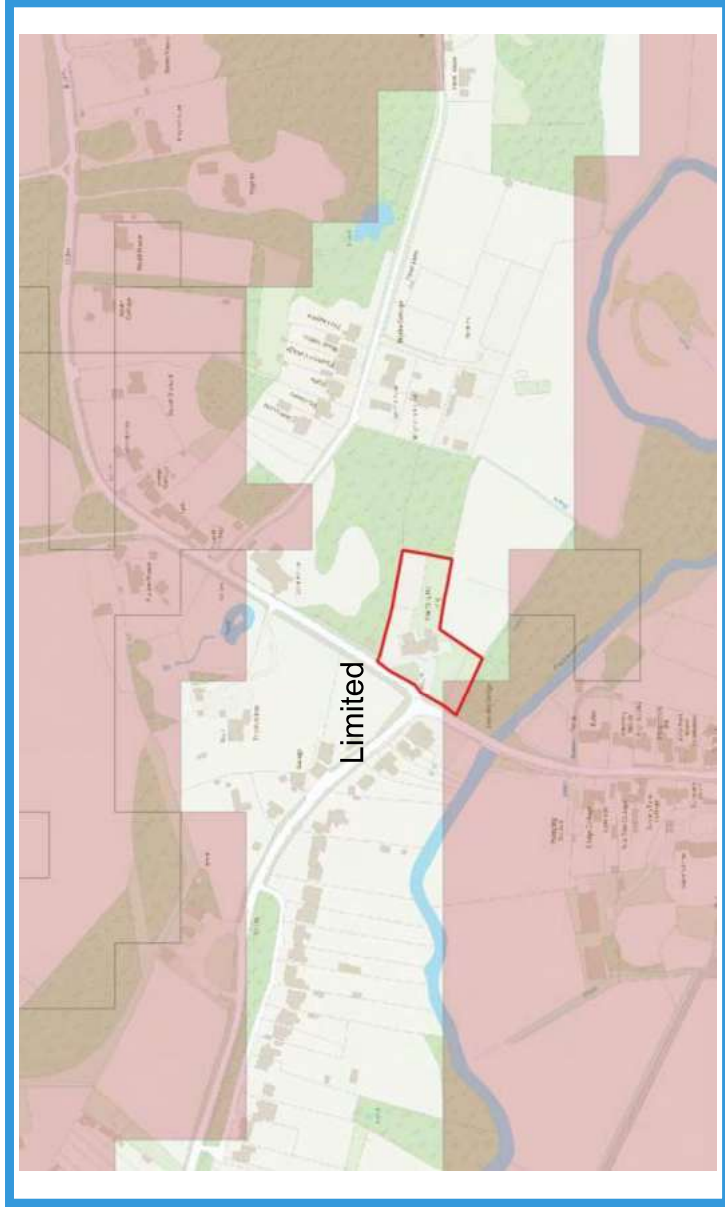
Site Check Results	
Site Check Report generated on Fri Mar 21 2025	
The following features have been found in your search area:	
You selected the location: Centroid Grid Ref: SU77586255	
Aquifer Designation Map (Superficial Drift) (England)	
TPOLOGY	Secondary A
Aquifer Designation Map (Bedrock) (England)	
TPOLOGY	Unproductive
Source Protection Zones merged (England)	
No Features found	

Table 5-3: Sewer flooding incidents recorded by Thames Water (January 2000-May 2022)

Postcode	Number of recorded incidents 2022	Number of recorded incidents 2021	Number of recorded incidents 2020	Number of recorded incidents 2019	Number of recorded incidents from 2000-2019	Total flooding incidents
RG10 0	1	4	2	63	70	70
RG10 8	0	0	0	2	2	2
RG10 9	5	5	4	94	108	108
RG2 8	0	0	0	10	10	10
RG2 9	7	10	6	148	172	172
RG27 0	0	0	0	5	5	5
RG4 6	1	2	0	33	36	36
RG40 1	0	0	0	1	1	1
RG40 2	0	0	0	3	3	3
RG40 4	2	1	1	47	51	51

Postcode	Number of recorded incidents 2022	Number of recorded incidents 2021	Number of recorded incidents 2020	Number of recorded incidents 2019	Number of recorded incidents from 2000-2019	Total flooding incidents
RG40 5	0	0	0	0	3	3
RG41 1	0	0	0	0	8	8
RG41 2	0	0	1	0	3	4
RG41 3	0	0	0	0	1	1
RG41 4	1	1	2	0	5	9
RG41 5	0	7	7	4	205	223
RG45 6	0	0	0	0	16	16
RG5 3	2	8	6	12	113	141
RG5 4	1	11	14	6	297	329
RG6 1	0	5	5	4	34	48
RG6 3	0	4	8	8	83	103
RG6 4	0	1	7	6	54	68
RG6 5	0	0	5	4	62	71
RG6 7	0	3	6	7	91	107
RG7 1	0	7	17	4	153	181

GROUND WATER FLOOD RISK



FLOOD WARNING AREA



 Flood Warning areas

CRITICAL DRAINAGE AREA

9.4.4 Critical Drainage Areas

A Critical Drainage Area (CDA) is an area with critical drainage problems (which has been formally notified to the LPA by the EA. Within CDAs, proposed development may present increased risks of flooding both on and off site if the surface water runoff is not effectively managed. A dataset containing CDAs is available to download from the EA website here. There are currently no CDAs identified within Wokingham Borough.

HISTORIC FLOOD MAP



● Historic Flood Outline



Flood map for planning

Your reference
<Unspecified>

Location (easting/northing) Created
477586/162560 **21 Mar 2025 5:02**

Your selected location is in flood zone 3, an area with a high probability of flooding.

This means:

- you must complete a flood risk assessment for development in this area
- you should follow the Environment Agency's standing advice for carrying out a flood risk assessment (see www.gov.uk/guidance/flood-risk-assessment-standing-advice)

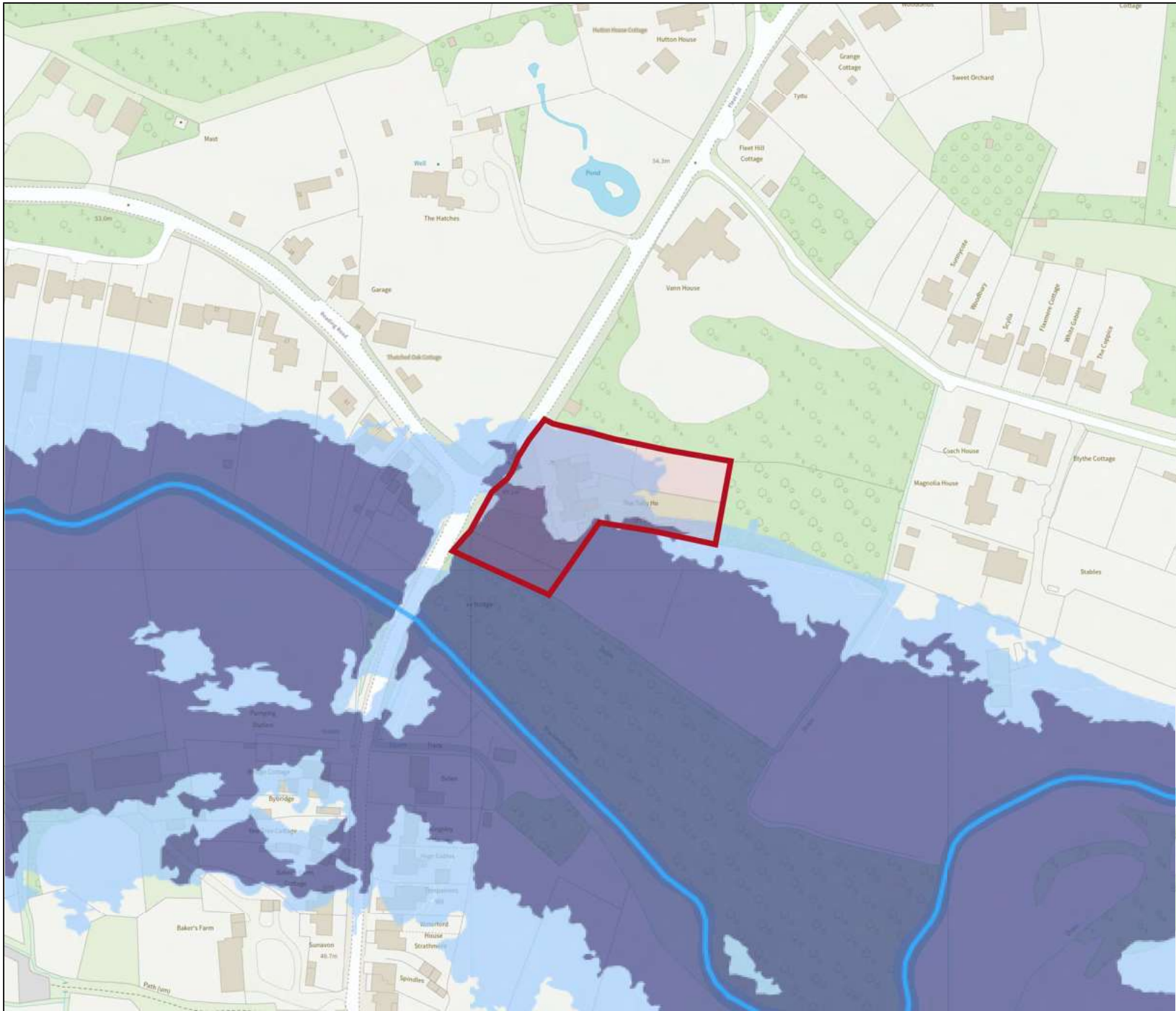
Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

Flood risk data is covered by the Open Government Licence which sets out the terms and conditions for using government data. <https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/>

Use of the address and mapping data is subject to Ordnance Survey public viewing terms under Crown copyright and database rights 2024 OS AC0000807064. <https://flood-map-for-planning.service.gov.uk/os-terms>



Flood map for planning

Your reference
<Unspecified>

Location (easting/northing)
477586/162560

Scale
1:2500

Created
21 Mar 2025 5:02

-  Selected area
-  Flood zone 3
-  Flood zone 2
-  Flood zone 1
-  Flood defence
-  Main river
-  Water storage area

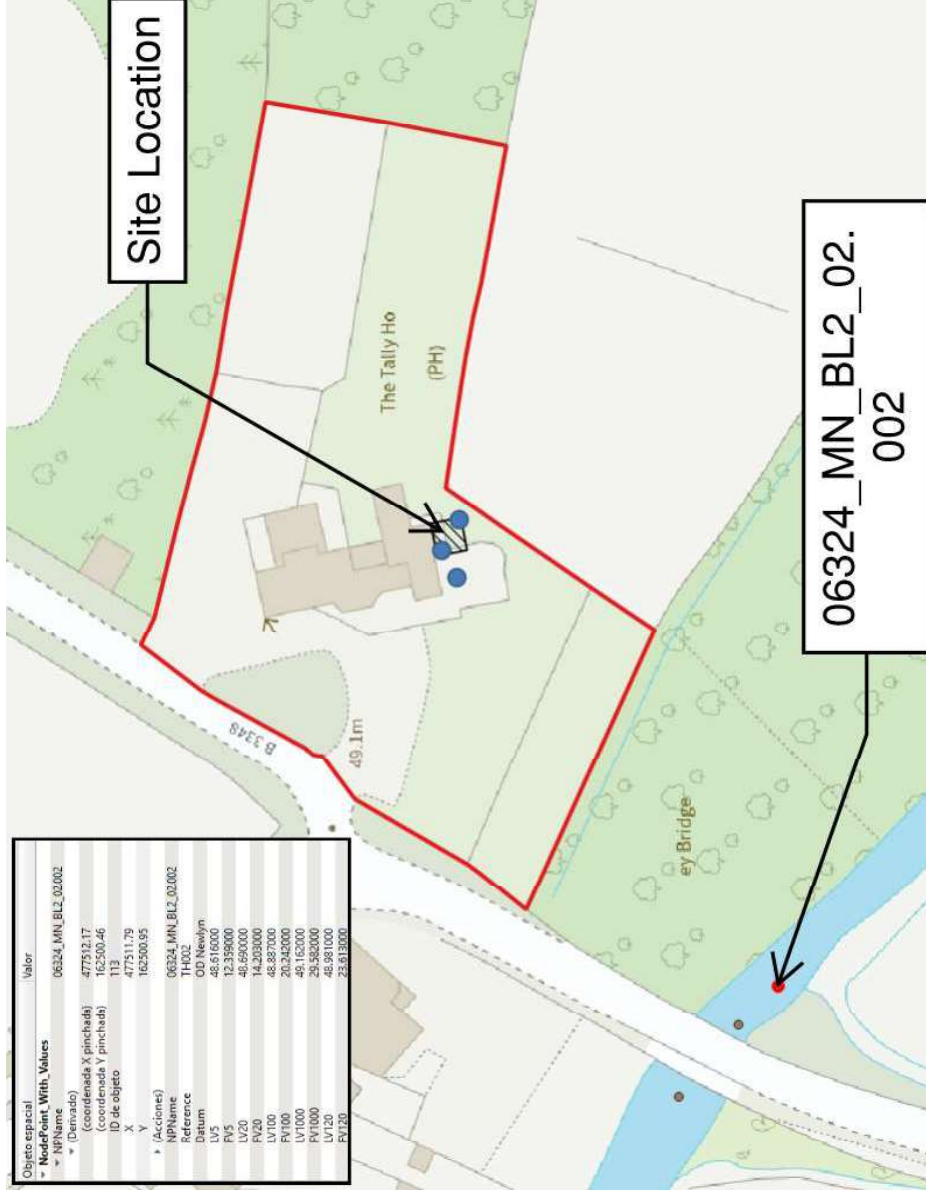
0 20 40 60m

Appendix D

FLOOD LEVELS

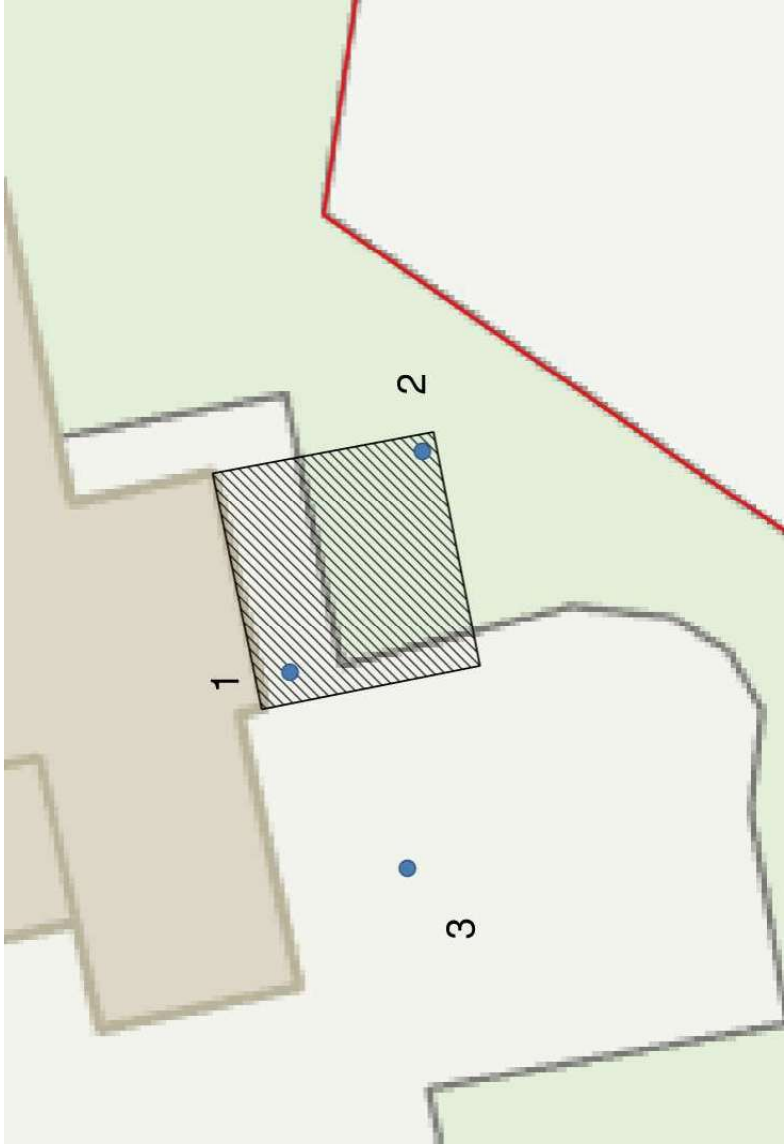
Model Blackwater (Sandhurst to Bramshill) 2009

Level in relation to property



Node	Easting	Northing	Water Level (m AOD) 1 in 5	Water Level (m AOD) 1 in 20	Water Level (m AOD) 1 in 100	Water Level (m AOD) 1 in 120	Water Level (m AOD) 1 in 1000
06324_MN_BL2_02.002	477511.79	162500.95	48.616	48.690	48.887	48.981	49.162

The water levels of the site



Node	Easting	Northing	Water Level (m AOD) 1 in 5	Water Level (m AOD) 1 in 20	Water Level (m AOD) 1 in 100	Water Level (m AOD) 1 in 100+CC	Water Level (m AOD) 1 in 1000
1	477579.55	162553.55	NIL	NIL	NIL	NIL	49.329
2	477584.29	162550.72	NIL	NIL	NIL	NIL	49.335
3	477575.37	162551.04	NIL	NIL	49.005	49.111	49.325

