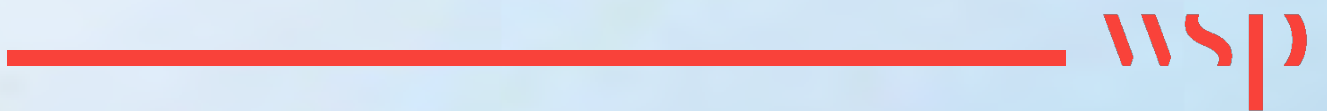
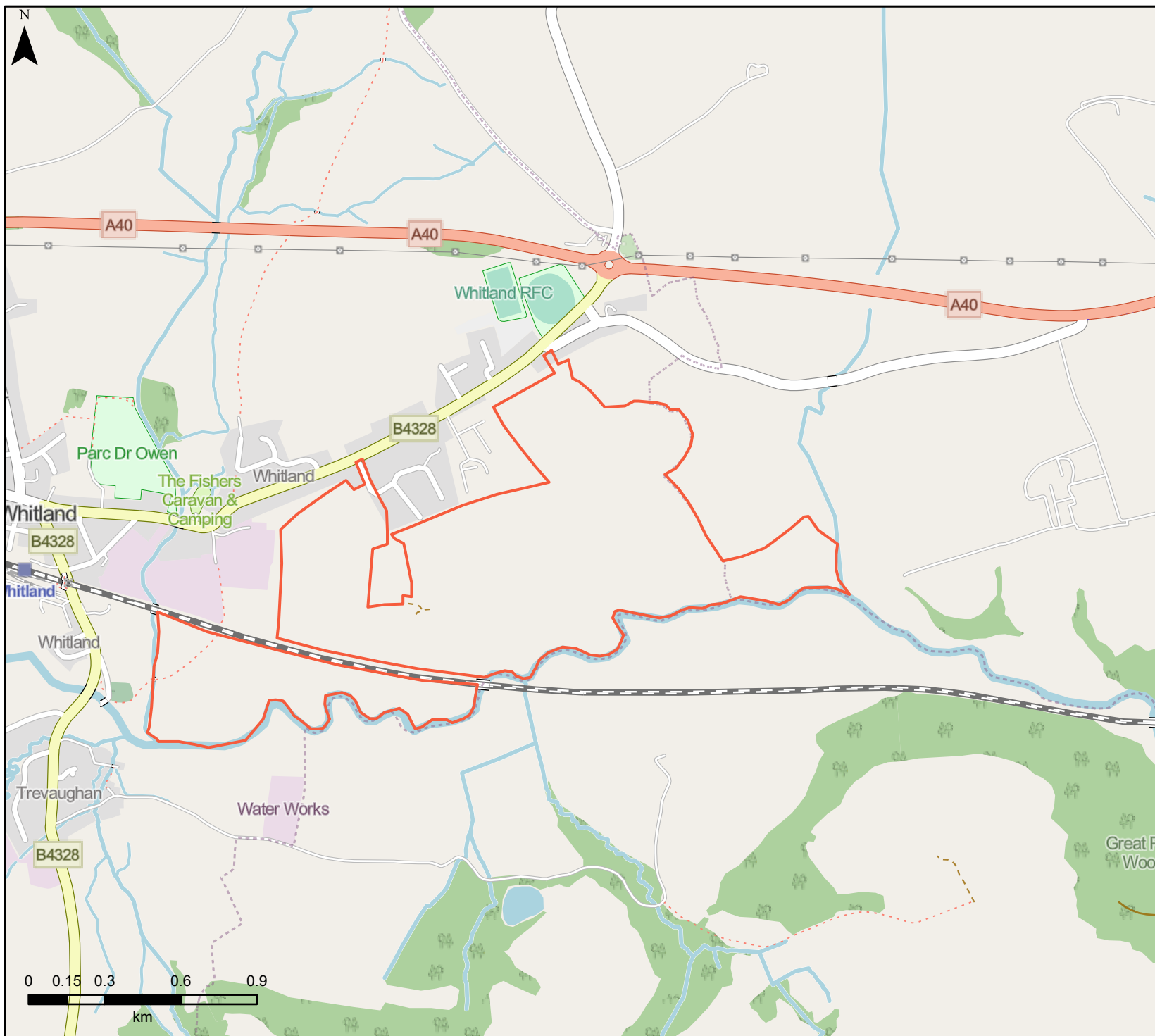


Appendix A

FIGURES





DO NOT SCALE

Information Classification:

INTERNAL

Information that is only intended for internal distribution among WSP employees, independent consultants, contractors, sub-contractors, clients and authorised third parties.

Legend :

— Approximate Site Boundary

Title : Site Layout
Author : ArcGIS Web AppBuilder
Scale : 1:20,996
Layout : WSP A4 Landscape
Current Time : 29/03/2022 11:09



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DO NOT SCALE

Information Classification:

INTERNAL

Information that is only intended for internal distribution among WSP employees, independent consultants, contractors, sub-contractors, clients and authorised third parties.

Legend :

— Approximate Site Boundary

Title : Site Layout

Author : ArcGIS Web AppBuilder

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Layout : WSP A4 Landscape

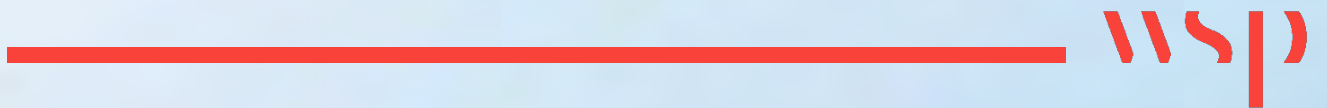
Current Time : 29/03/2022 11:09



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Appendix B

LIMITATIONS



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

GENERAL

1. WSP UK Limited has prepared this report solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed and outlined in the body of the report.
2. Unless explicitly agreed otherwise, in writing, this report has been prepared under WSP UK Limited standard Terms and Conditions as included within our proposal to the Client.
3. Project specific appointment documents may be agreed at our discretion and a charge may be levied for both the time to review and finalise appointments documents and also for associated changes to the appointment terms. WSP UK Limited reserves the right to amend the fee should any changes to the appointment terms create an increase risk to WSP UK Limited.
4. The report needs to be considered in the light of the WSP UK Limited proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

PHASE 1 GEO ENVIRONMENTAL AND PRELIMINARY RISK ASSESSMENTS

Coverage: *This section covers reports with the following titles or combination of titles: phase 1; desk top study; geo environmental assessment; development appraisal; preliminary environmental risk assessment; constraints report; due diligence report; geotechnical development review; environmental statement; environmental chapter; project scope summary report (PSSR), program environmental impact report (PEIR), geotechnical development risk register; and, baseline environmental assessment.*

5. The works undertaken to prepare this report comprised a study of available and easily documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the Site and correspondence with relevant authorities and other interested parties. Due to the short timescales associated with these projects responses may not have been received from all parties. WSP UK Limited cannot be held responsible for any disclosures that are provided post production of our report and will not automatically update our report.
6. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only for the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, WSP UK Limited reserves the right to review such information and, if warranted, to modify the opinions accordingly.
7. It should be noted that any risks identified in this report are perceived risks based on the information reviewed. Actual risks can only be assessed following intrusive investigations of the site.
8. WSP UK Limited does not warrant work / data undertaken / provided by others.

REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

INTRUSIVE INVESTIGATION REPORTS

Coverage: *The following report titles (or combination) may cover this category of work: geo environmental site investigation; geotechnical assessment; GIR (Ground Investigation reports); preliminary environmental and geotechnical risk assessment; and, geotechnical risk register.*

9. The investigation has been undertaken to provide information concerning either:
 - i. The type and degree of contamination present at the site in order to allow a generic quantitative risk assessment to be undertaken; or
 - ii. Information on the soil properties present at the site to allow for geotechnical development constraints to be considered.
10. The scope of the investigation was selected on the basis of the specific development and land use scenario proposed by the Client and may be inappropriate to another form of development or scheme. If the development layout was not known at the time of the investigation the report findings may need revisiting once the development layout is confirmed.
11. For contamination purposes, the objectives of the investigation are limited to establishing the risks associated with potential contamination sources with the potential to cause harm to human health, building materials, the environment (including adjacent land), or controlled waters.
12. For geotechnical investigations the purpose is to broadly consider potential development constraints associated with the physical property of the soils underlying the site within the context of the proposed future or continued use of the site, as stated within the report.
13. The amount of exploratory work, soil property testing and chemical testing undertaken has necessarily been restricted by various factors which may include accessibility, the presence of services; existing buildings; current site usage or short timescales. The exploratory holes completed assess only a small percentage of the area in relation to the overall size of the Site, and as such can only provide a general indication of conditions.
14. The number of sampling points and the methods of sampling and testing do not preclude the possible existence of contamination where concentrations may be significantly higher than those actually encountered or ground conditions that vary from those identified. In addition, there may be exceptional ground conditions elsewhere on the site which have not been disclosed by this investigation and which have therefore not been taken into account in this report.
15. The inspection, testing and monitoring records relate specifically to the investigation points and the timeframe that the works were undertaken. They will also be limited by the techniques employed. As part of this assessment, WSP UK Limited has used reasonable skill and care to extrapolate conditions between these points based upon assumptions to develop our interpretation and conclusions. The assumption made in forming our conclusions is that the ground and groundwater conditions (both chemically and physically) are the same as have been encountered during the works undertaken at the specific points of investigation. Conditions can change between investigation points and these interpretations should be considered indicative.
16. The risk assessment and opinions provided are based on currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values. Specific assumptions associated

REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

with the WSP UK Limited risk assessment process have been outlined within the body or associated appendix of the report.

17. Additional investigations may be required in order to satisfy relevant planning conditions or to resolve any engineering and environmental issues.
18. Where soil contamination concentrations recorded as part of this investigation are used for commentary on potential waste classification of soils for disposal purposes, these should be classed as indicative only. Due consideration should be given to the variability of contaminant concentrations taken from targeted samples versus bulk excavated soils and the potential variability of contaminant concentrations between sampling locations. Where major waste disposal operations are considered, targeted waste classification investigations should be designed.
19. The results of the asbestos testing are factually reported and interpretation given as to how this relates to the previous use of the site, the types of ground encountered and site conceptualisation. This does not however constitute a formal asbestos assessment. These results should be treated cautiously and should not be relied upon to provide detailed and representative information on the delineation, type and extent of bulk ACMs and / or trace loose asbestos fibres within the soil matrix at the site.
20. If costs have been included in relation to additional site works, and / or site remediation works these must be considered as indicative only and must be confirmed by a qualified quantity surveyor.

EUROCODE 7: GEOTECHNICAL DESIGN

21. On 1st April 2010, BS EN 1997-1:2004 (Eurocode 7: Geotechnical Design – Part 1) became the mandatory baseline standard for geotechnical ground investigations.
22. In terms of geotechnical design for foundations, slopes, retaining walls and earthworks, EC7 sets guidance on design procedures including specific guidance on the numbers and spacings of boreholes for geotechnical design, there are limits to methods of ground investigation and the quality of data obtained and there are also prescriptive methods of assessing soil strengths and methods of design. Unless otherwise explicitly stated, the work has not been undertaken in accordance with EC7. A standard geotechnical interpretative report will not meet the requirements of the Geotechnical Design Report (GDR) under Eurocode 7. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. The report is likely to represent a Ground Investigation Report (GIR) under the Eurocode 7 guidance.

DETAILED QUANTITATIVE RISK ASSESSMENTS AND REMEDIAL STRATEGY REPORTS

23. These reports build upon previous report versions and associated notes. The scope of the investigation, further testing and monitoring and associated risk assessments were selected on the basis of the specific development and land use scenario proposed by the Client and may not be appropriate to another form of development or scheme layout. The risk assessment and opinions provided are based on currently available approaches in the generation of Site Specific Assessment Criteria relating to contamination concentrations and are not considered to represent a risk in a specific land use scenario to a specific receptor. No liability can be accepted for the retrospective effects of any future changes or amendments to these values, associated models or associated guidance.



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

- 24. The outputs of the Detailed Quantitative Risk Assessments are based upon WSP UK Limited manipulation of standard risk assessment models. These are our interpretation of the risk assessment criteria.
- 25. Prior to adoption on site they will need discussing and agreeing with the Regulatory Authorities prior to adoption on site. The regulatory discussion and engagement process may result in an alternative interpretation being determined and agreed. The process and timescales associated with the Regulatory Authority engagement are not within the control of WSP UK Limited. All costs and programmes presented as a result of this process should be validated by a quantity surveyor and should be presumed to be indicative.

GEOTECHNICAL DESIGN REPORT (GDR)

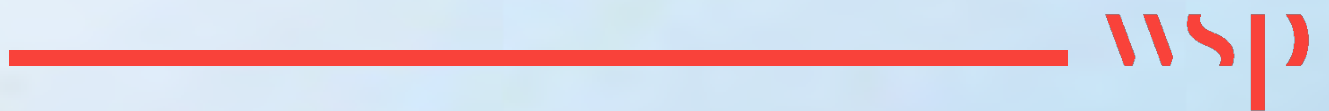
- 26. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. All the relevant information needs to be provided to allow for a GDR to be produced.

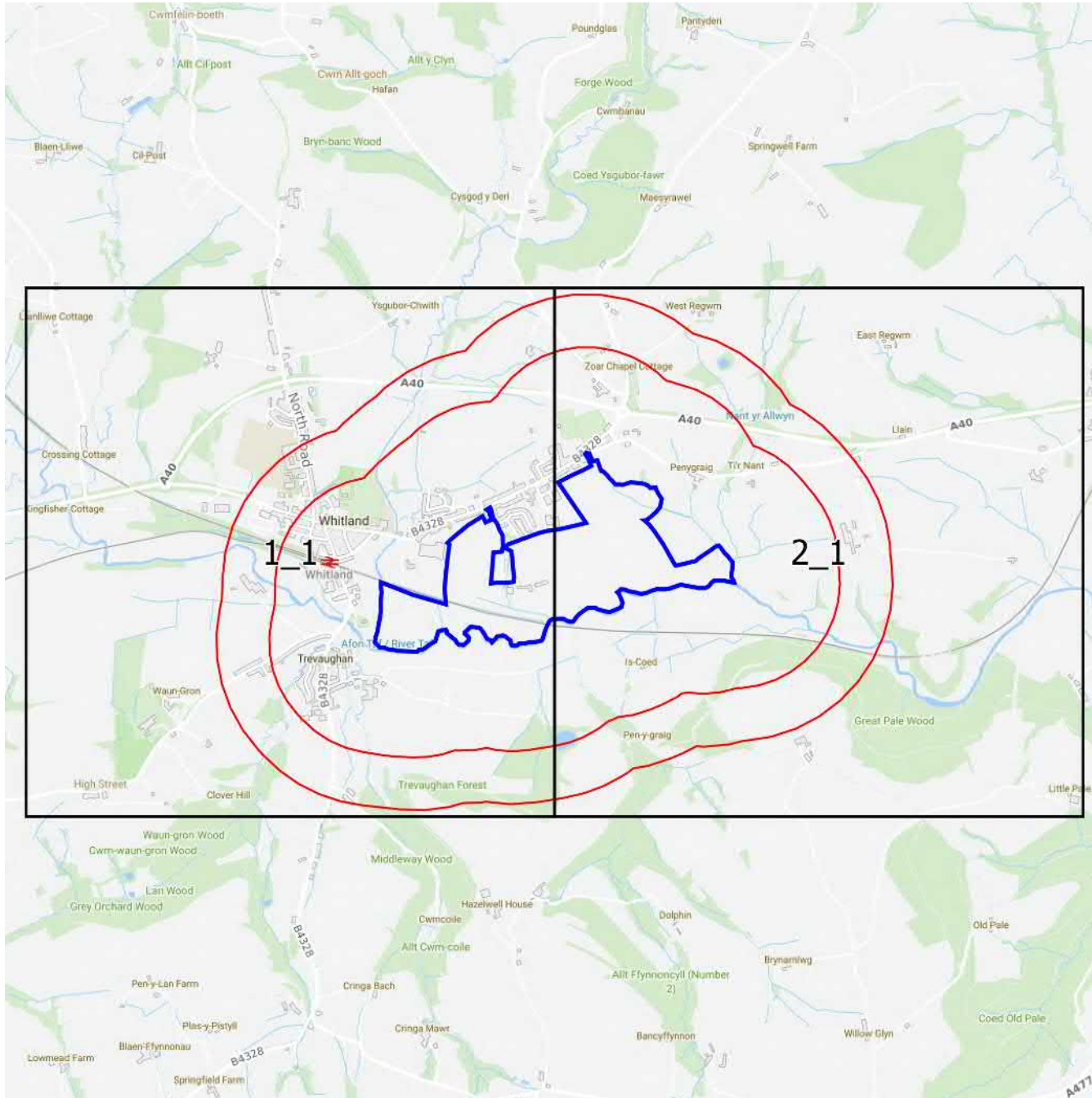
MONITORING (INCLUDING REMEDIATION MONITORING REPORTS)

- 27. These reports are factual in nature and comprise monitoring, normally groundwater and ground gas and data provided by contractors as part of an earthworks or remedial works.
- 28. The data is presented and will be compared with assessment criteria.

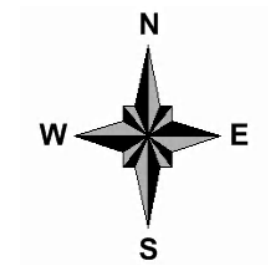
Appendix C

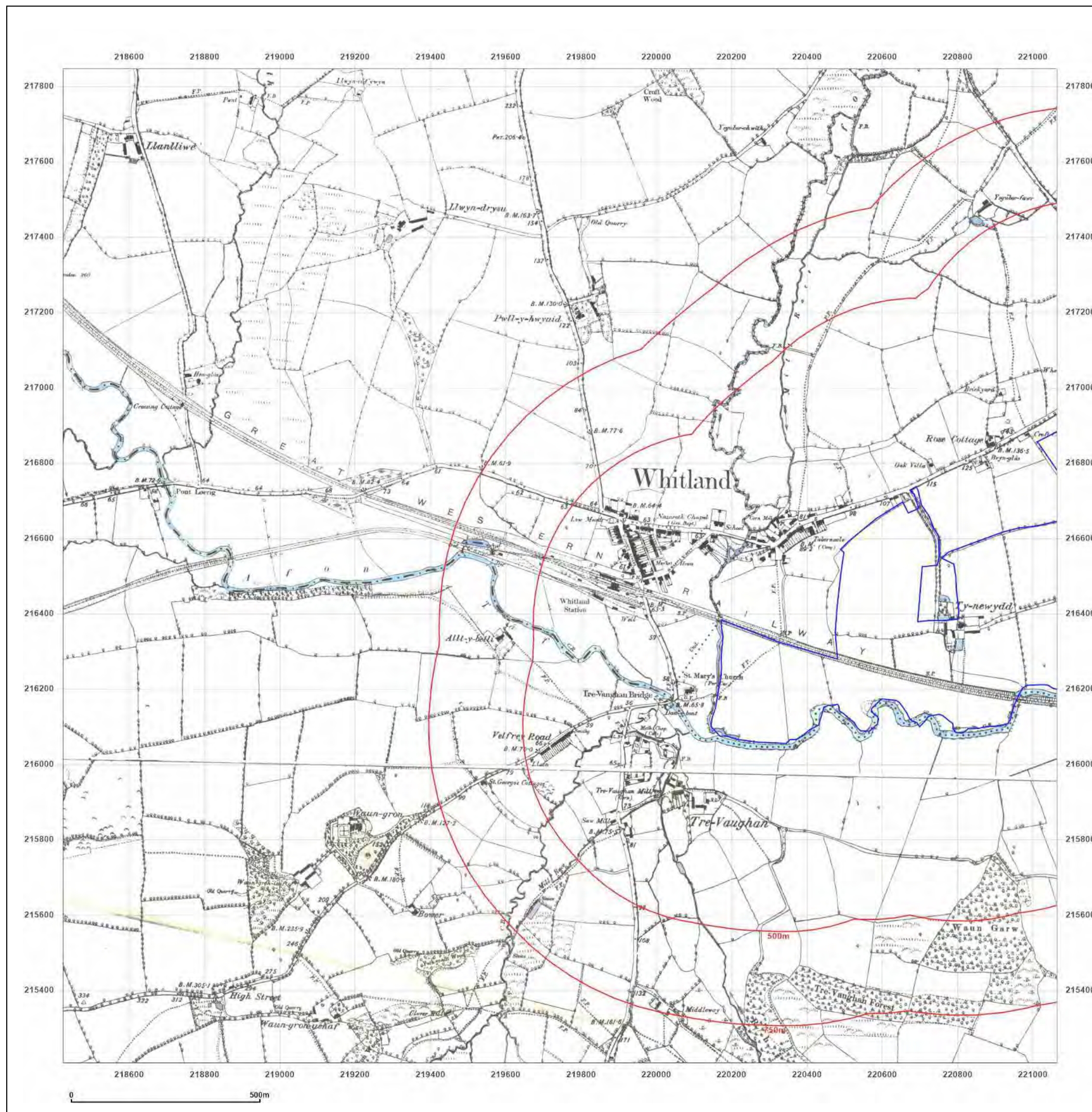
GROUNDSURE REPORT





Small Scale Grid Index







Site Details:

Ty Newydd Farm, WHITLAND,
SA34 0DA

Client Ref: Site_C
Report Ref: WSP-8623850_SS_1_1
Grid Ref: 219743, 216526

Map Name: County Series

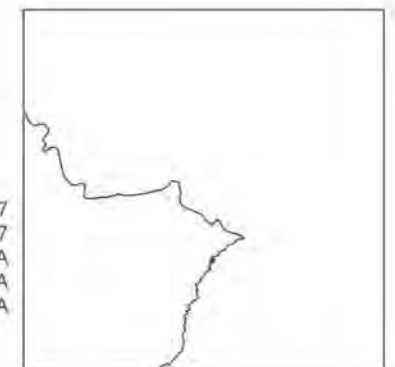
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Printed at: 1:10,560



Surveyed 1887
Revised 1887
Edition N/A
Copyright N/A
Levelled N/A

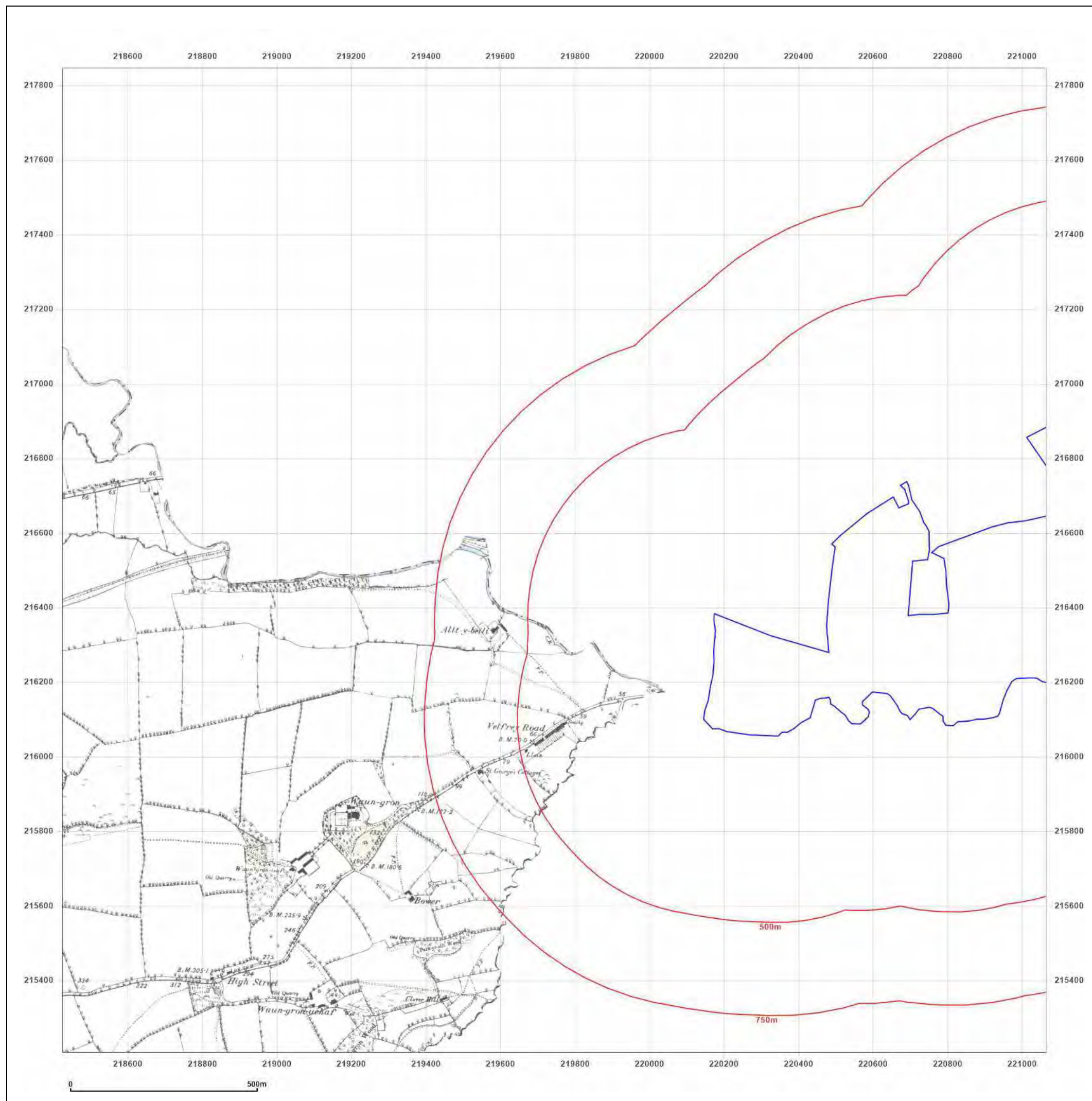


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Site Details:

Ty Newydd Farm, WHITLAND,
SA34 0DA

Client Ref: Site_C
Report Ref: WSP-8623850_SS_1_1
Grid Ref: 219743, 216526

Map Name: County Series

Map date: 1905-1906

Scale: 1:10,560

Printed at: 1:10,560



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Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1887
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

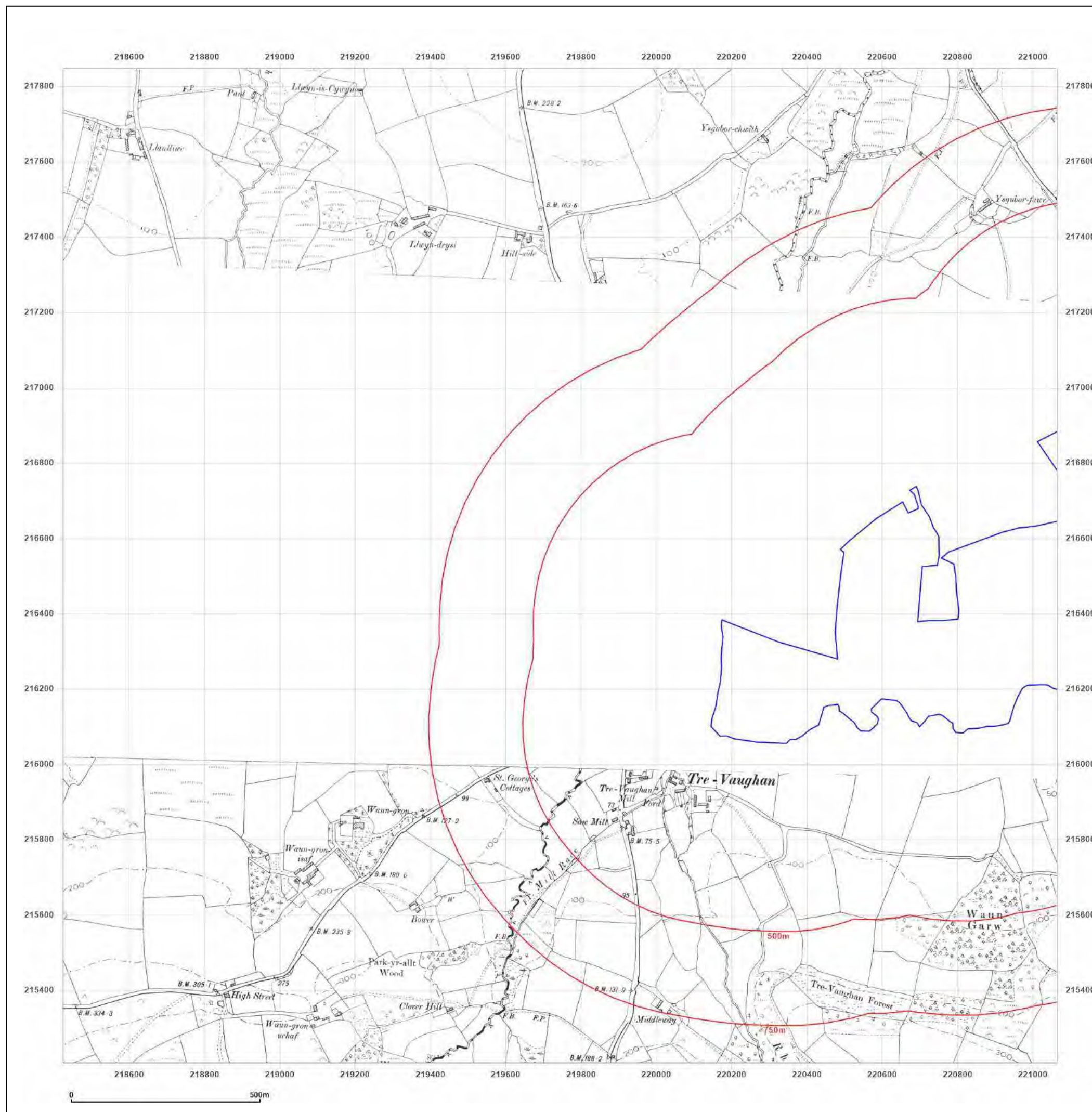


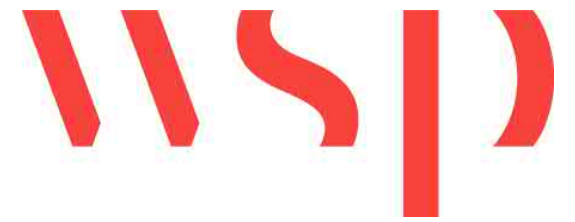
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SA34 0DA

Client Ref: Site_C
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Grid Ref: 219743, 216526

Map Name: County Series

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Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

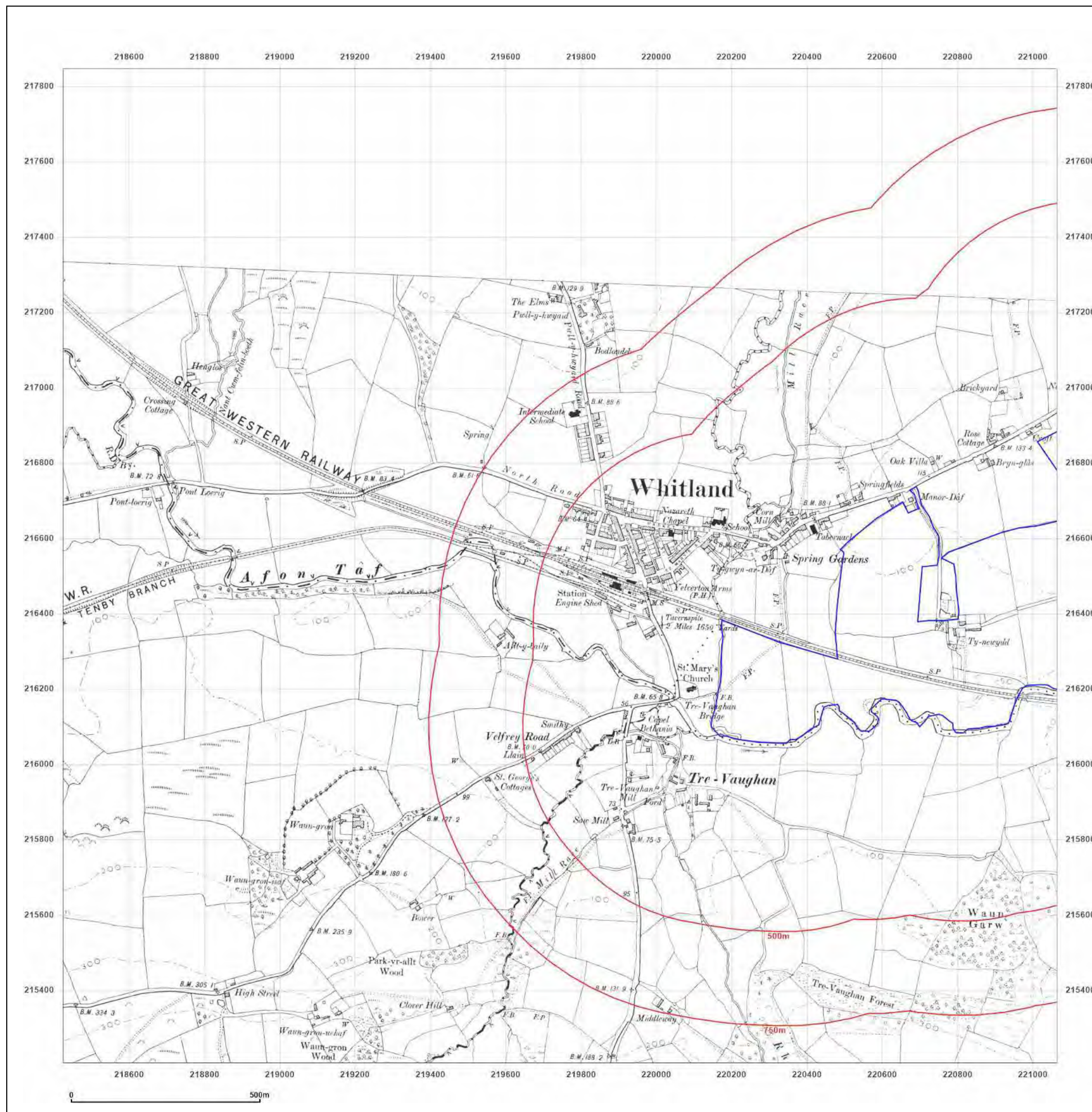


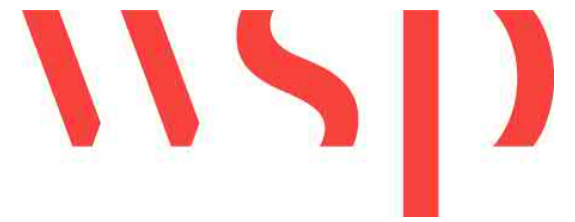
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SA34 0DA

Client Ref: Site_C
Report Ref: WSP-8623850_SS_1_1
Grid Ref: 219743, 216526

Map Name: County Series

Map date: 1908

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1908
Edition 1908
Copyright N/A
Levelled N/A

Surveyed 1887
Revised 1908
Edition 1908
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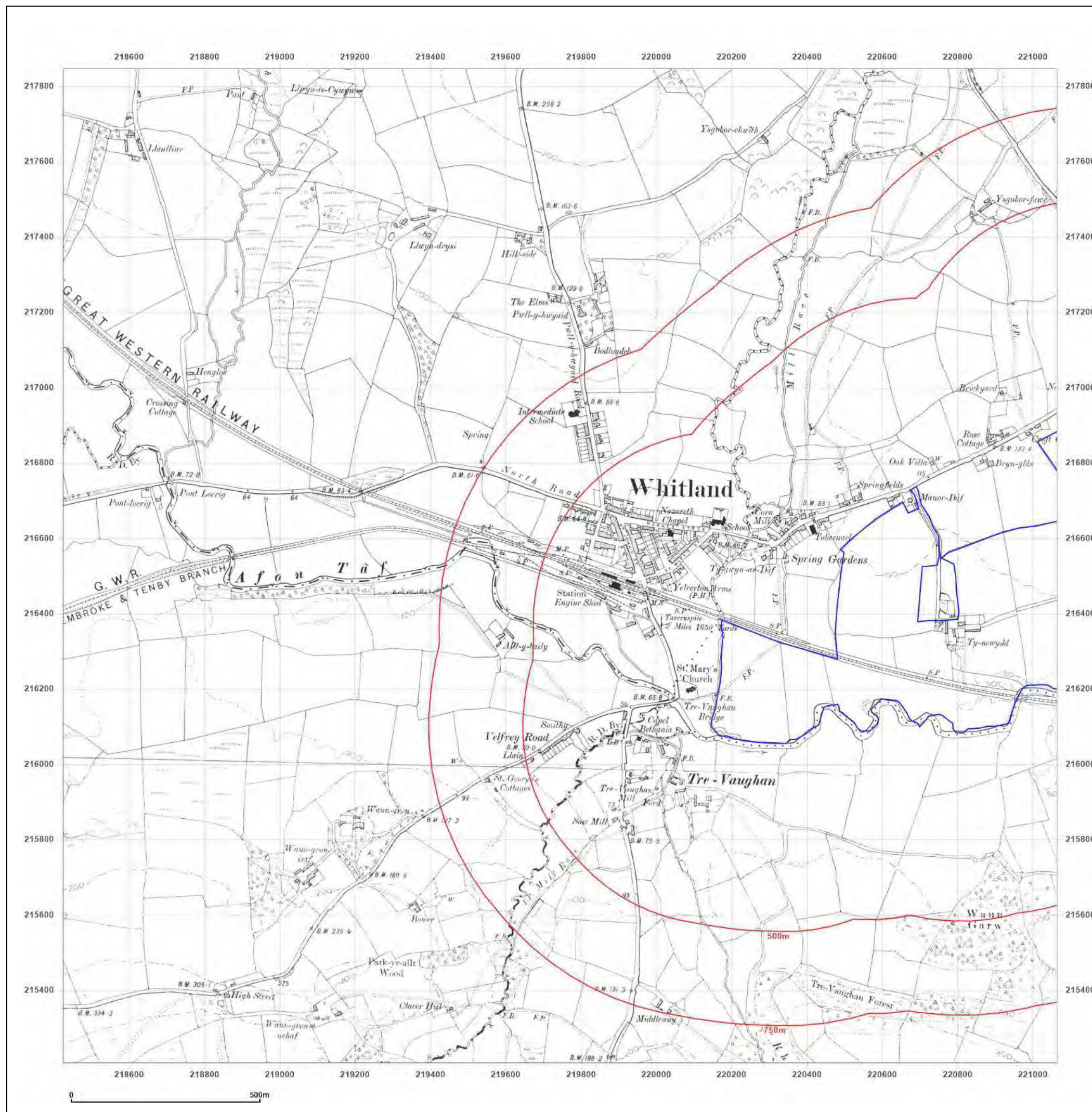


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Ty Newydd Farm, WHITLAND,
SA34 0DA

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Report Ref: WSP-8623850_SS_1_1
Grid Ref: 219743, 216526

Map Name: County Series

Map date: 1948

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1887
Revised 1948
Edition N/A
Copyright N/A
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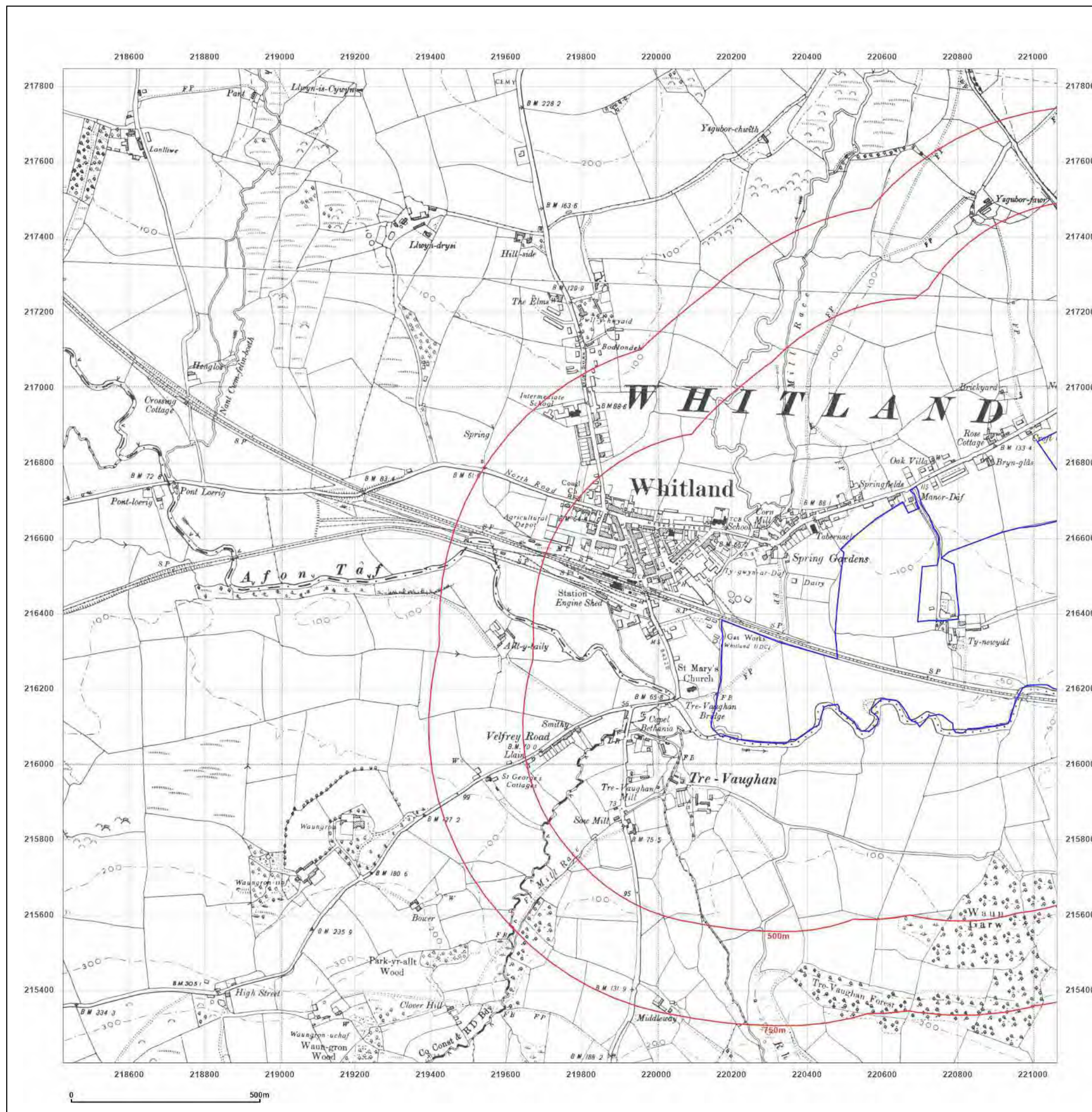


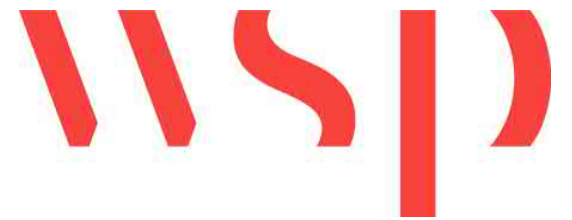
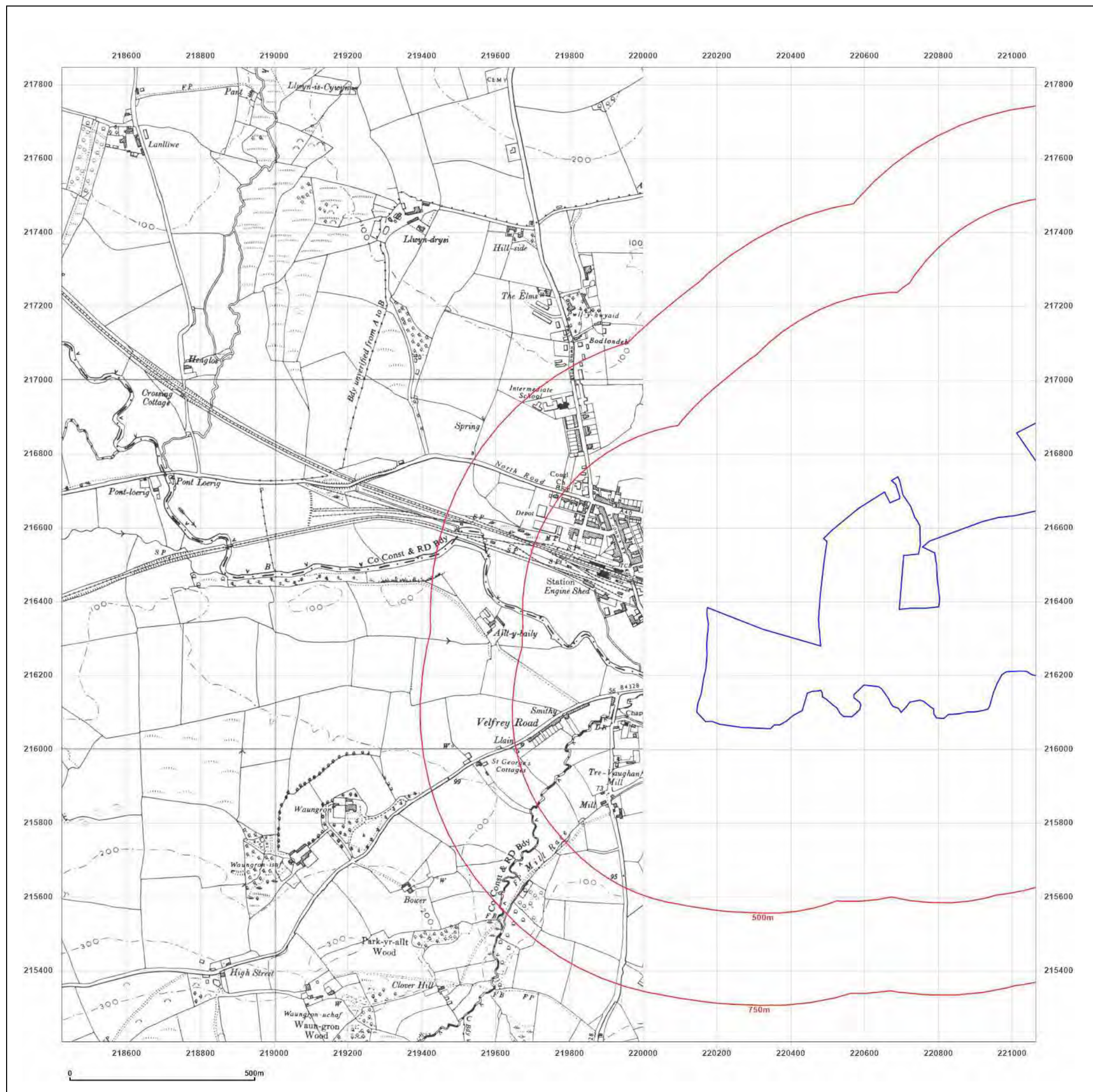
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Site Details:

Ty Newydd Farm, WHITLAND,
SA34 0DA

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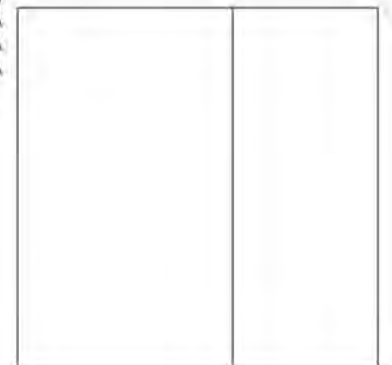
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Revised 1948
Edition N/A
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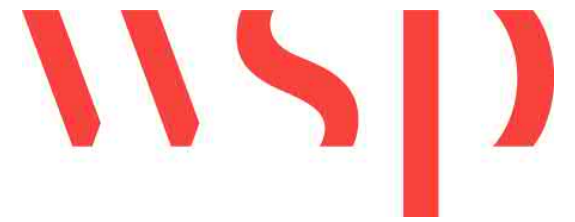


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SA34 0DA

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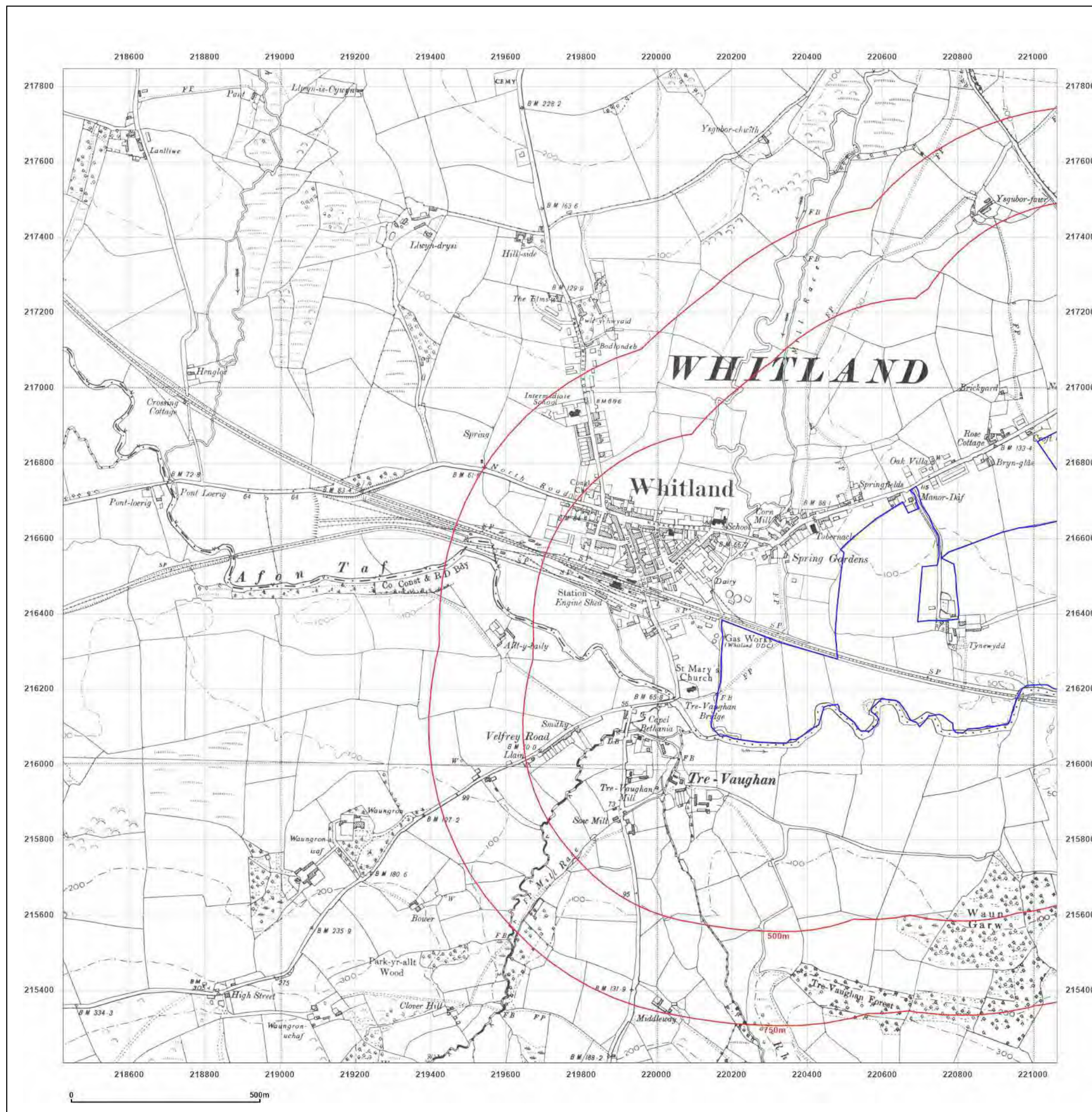


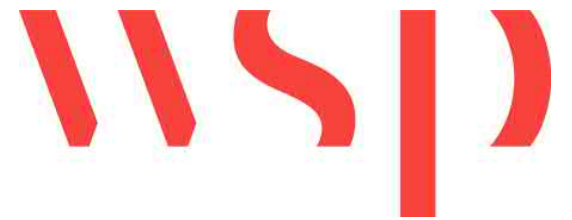
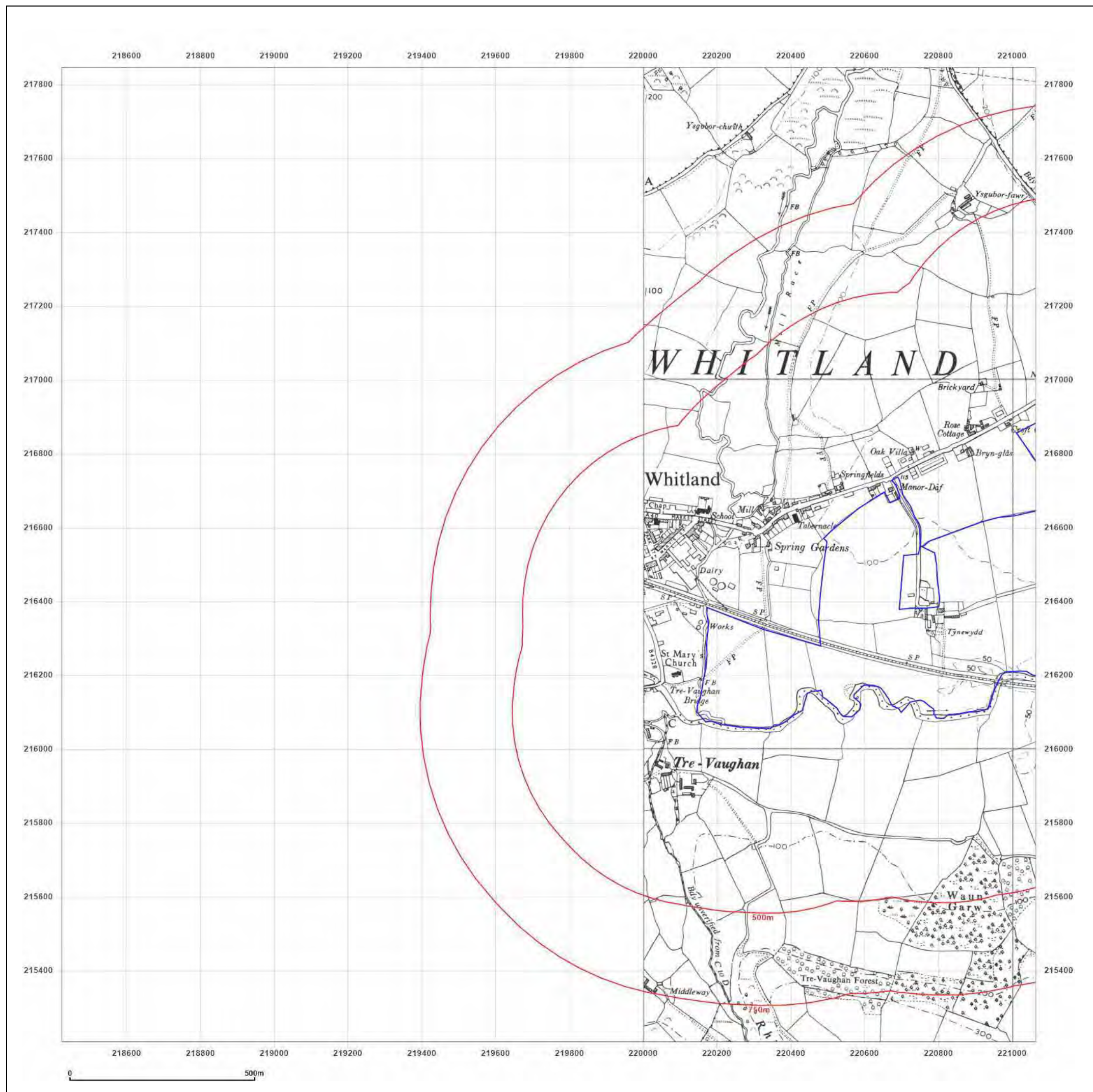
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Site Details:

Ty Newydd Farm, WHITLAND,
SA34 0DA

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Map Name: Provisional

Map date: 1963

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1963
Edition N/A
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Site Details:

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SA34 0DA

Client Ref: Site_C
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Map date: 1973

Scale: 1:10,000

Printed at: 1:10,000



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Edition N/A
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Surveyed 1971
Revised 1973
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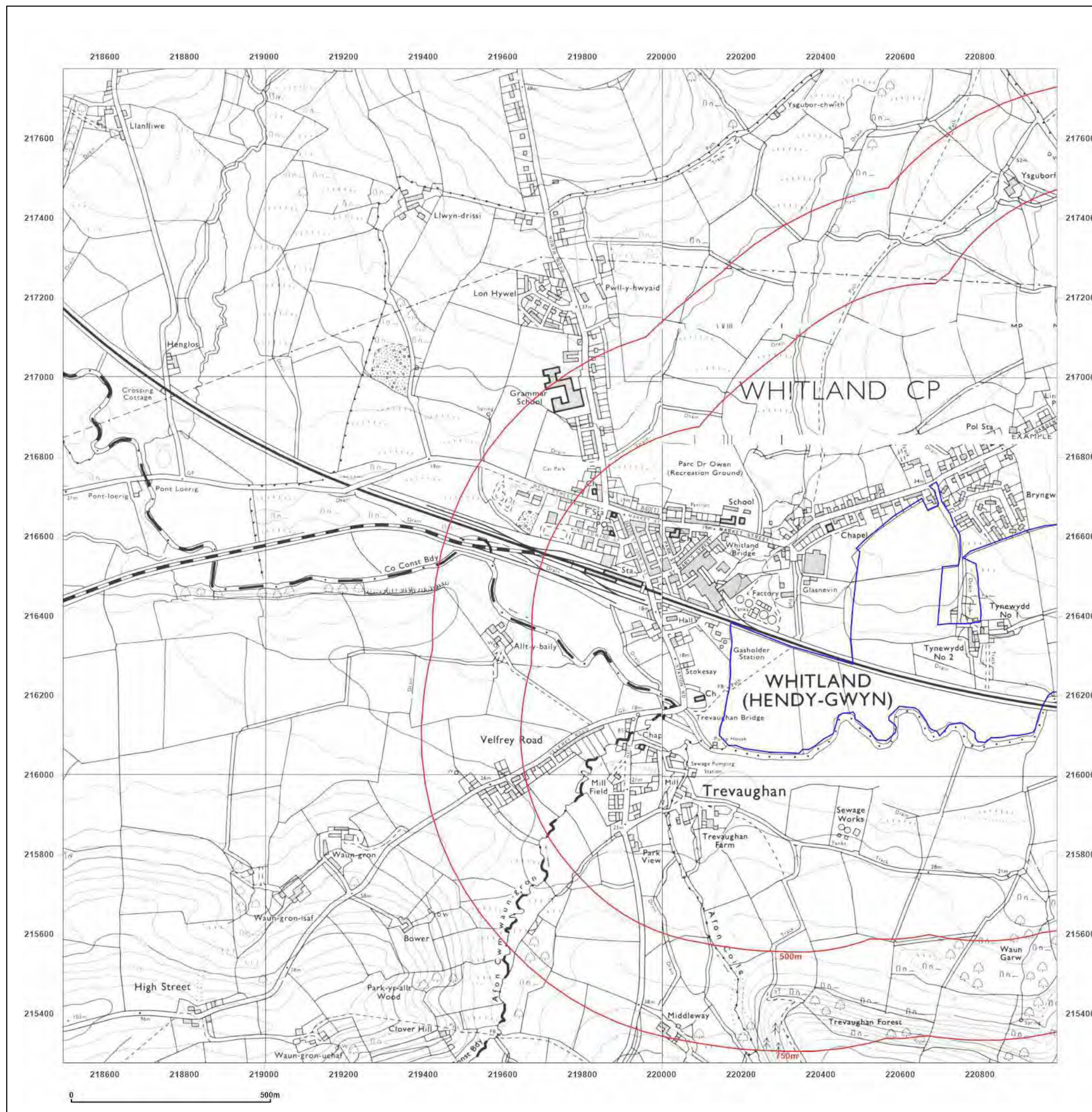


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Site Details:

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SA34 0DA

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Map date: 1992

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Printed at: 1:10,000



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Levelled N/A

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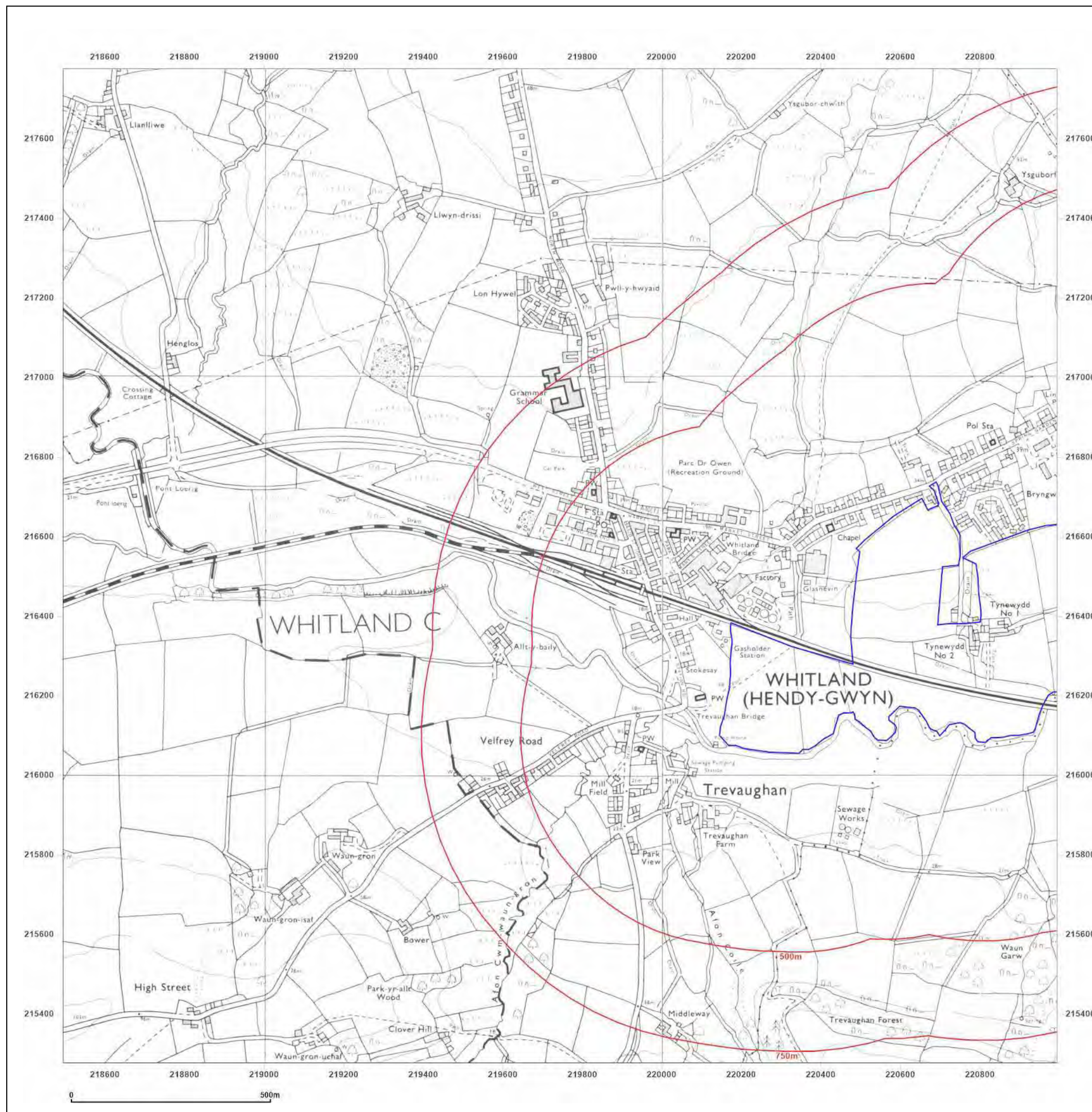


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Site Details:

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SA34 0DA

Client Ref: Site_C
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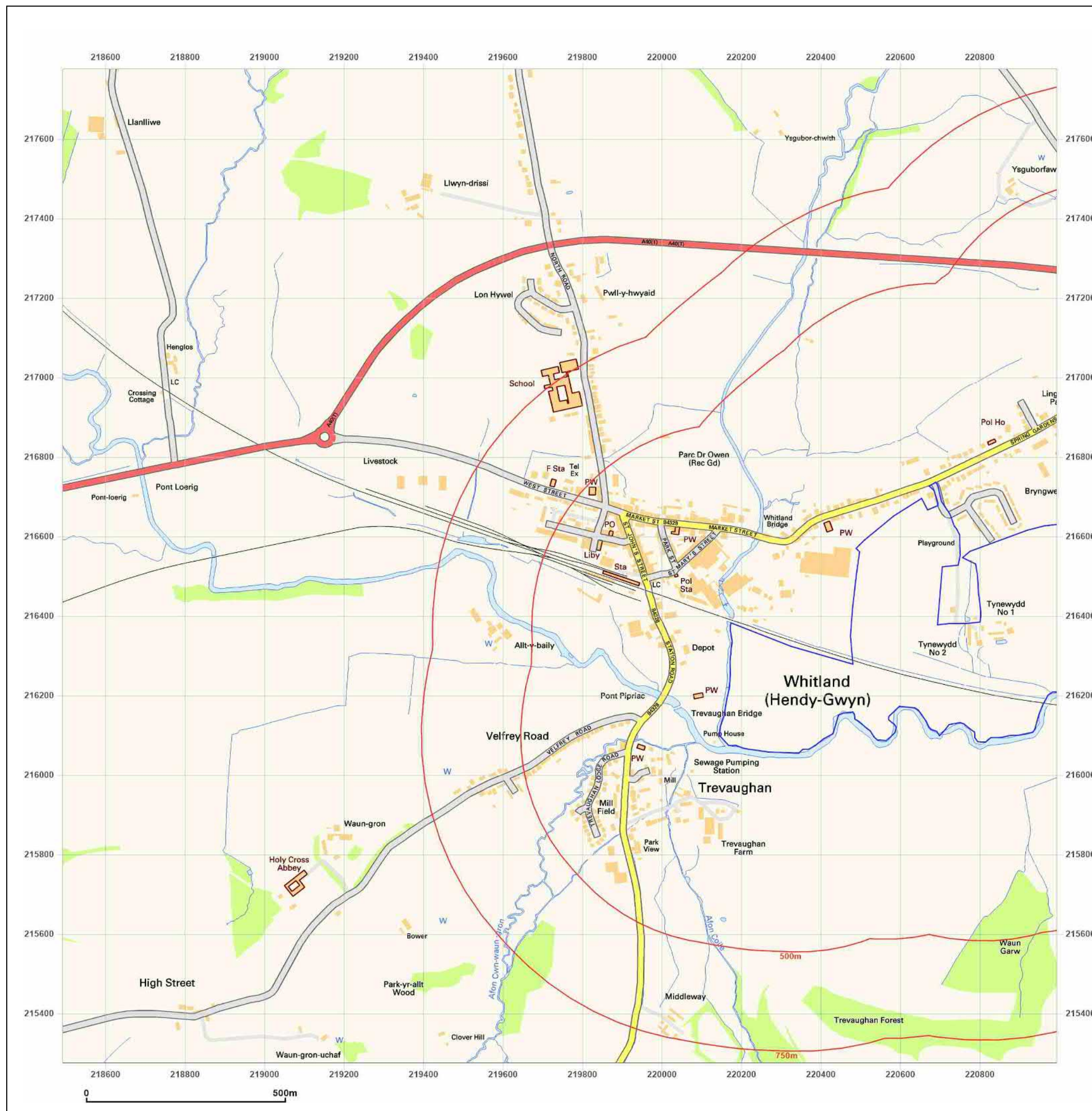


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Site Details:

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SA34 0DA

Client Ref: Site_C
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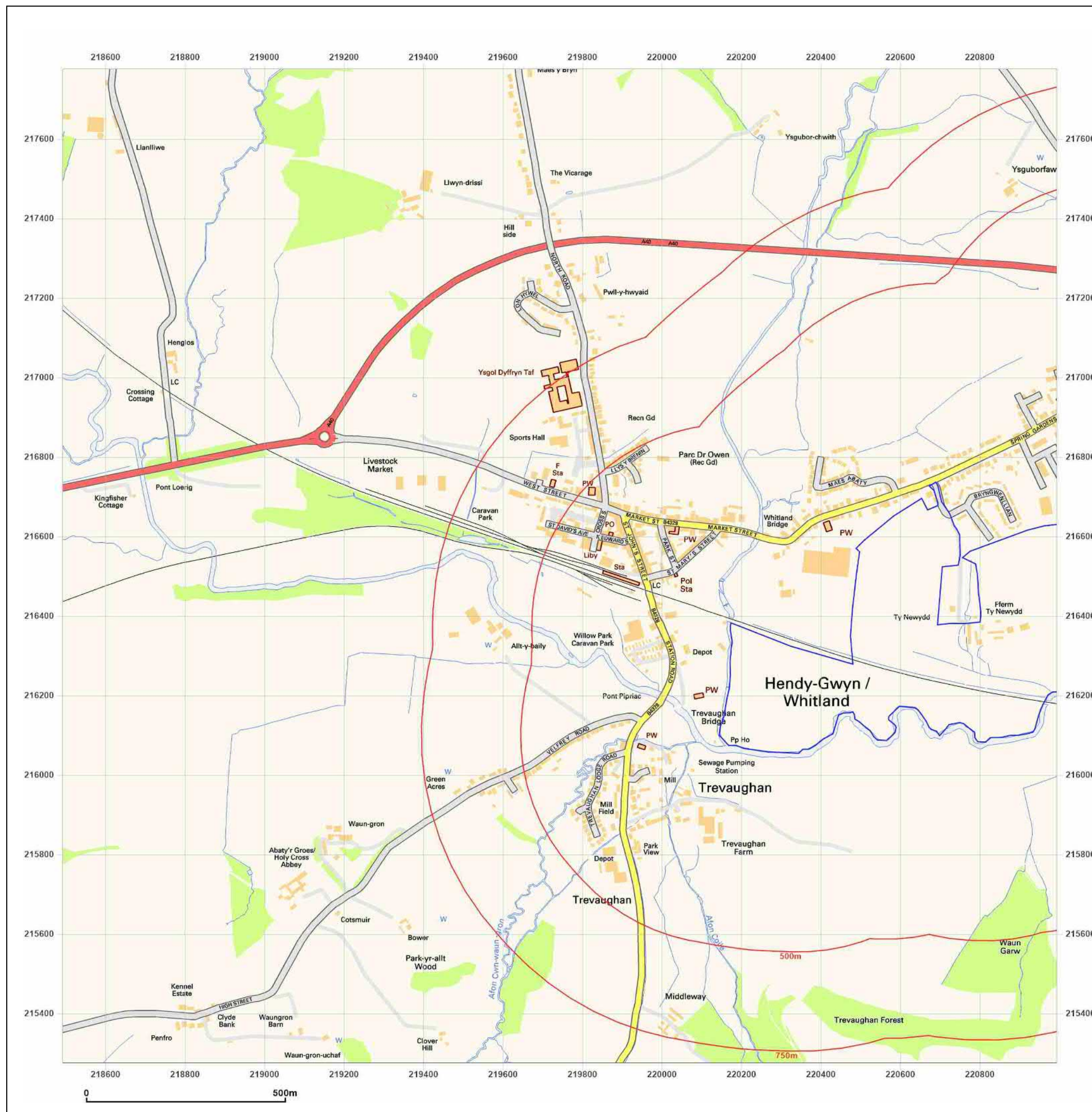
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Site Details:

Ty Newydd Farm, WHITLAND,
SA34 0DA

Client Ref: Site_C
Report Ref: WSP-8623850_SS_1_1
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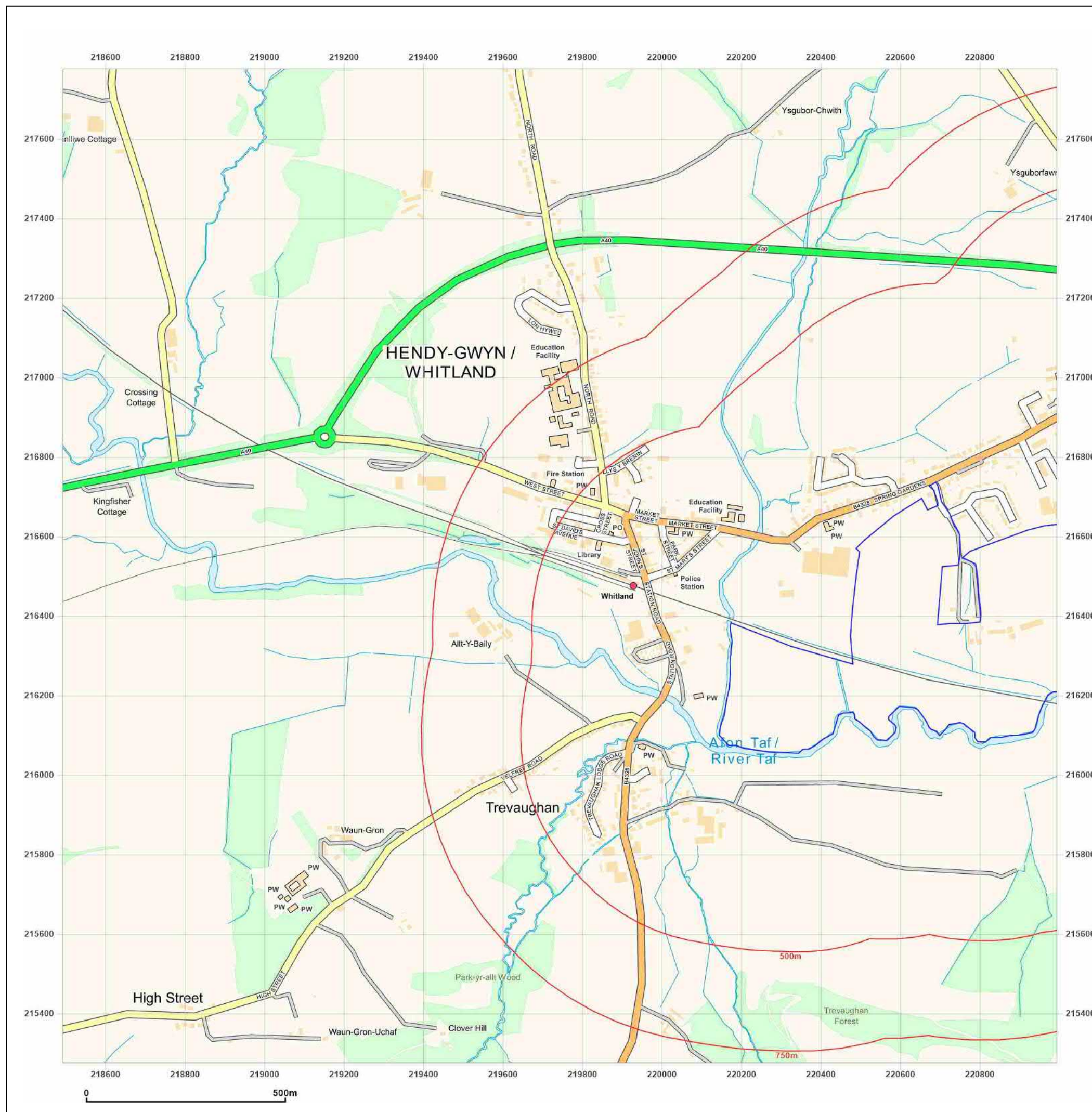


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Site Details:

Ty Newydd Farm, WHITLAND,
SA34 0DA

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Report Ref: WSP-8623850_SS_2_1
Grid Ref: 222243, 216526

Map Name: County Series

Map date: 1887

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1887
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1887
Revised 1887
Edition N/A
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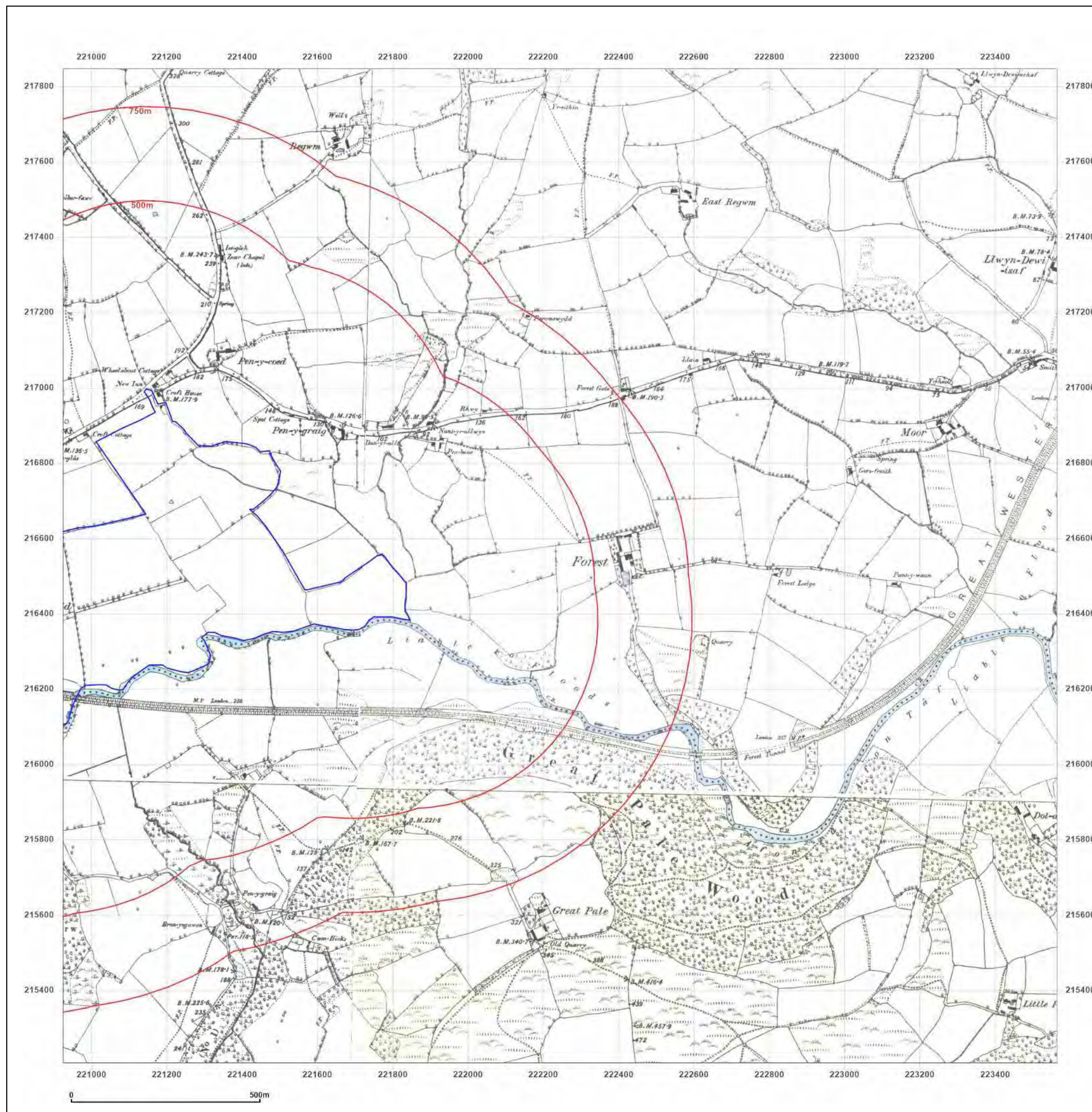


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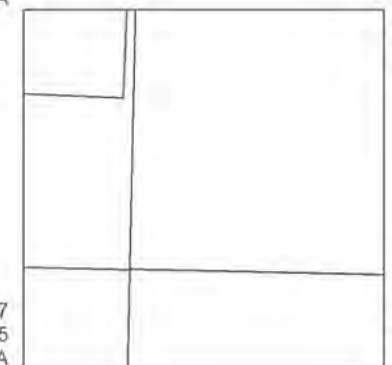
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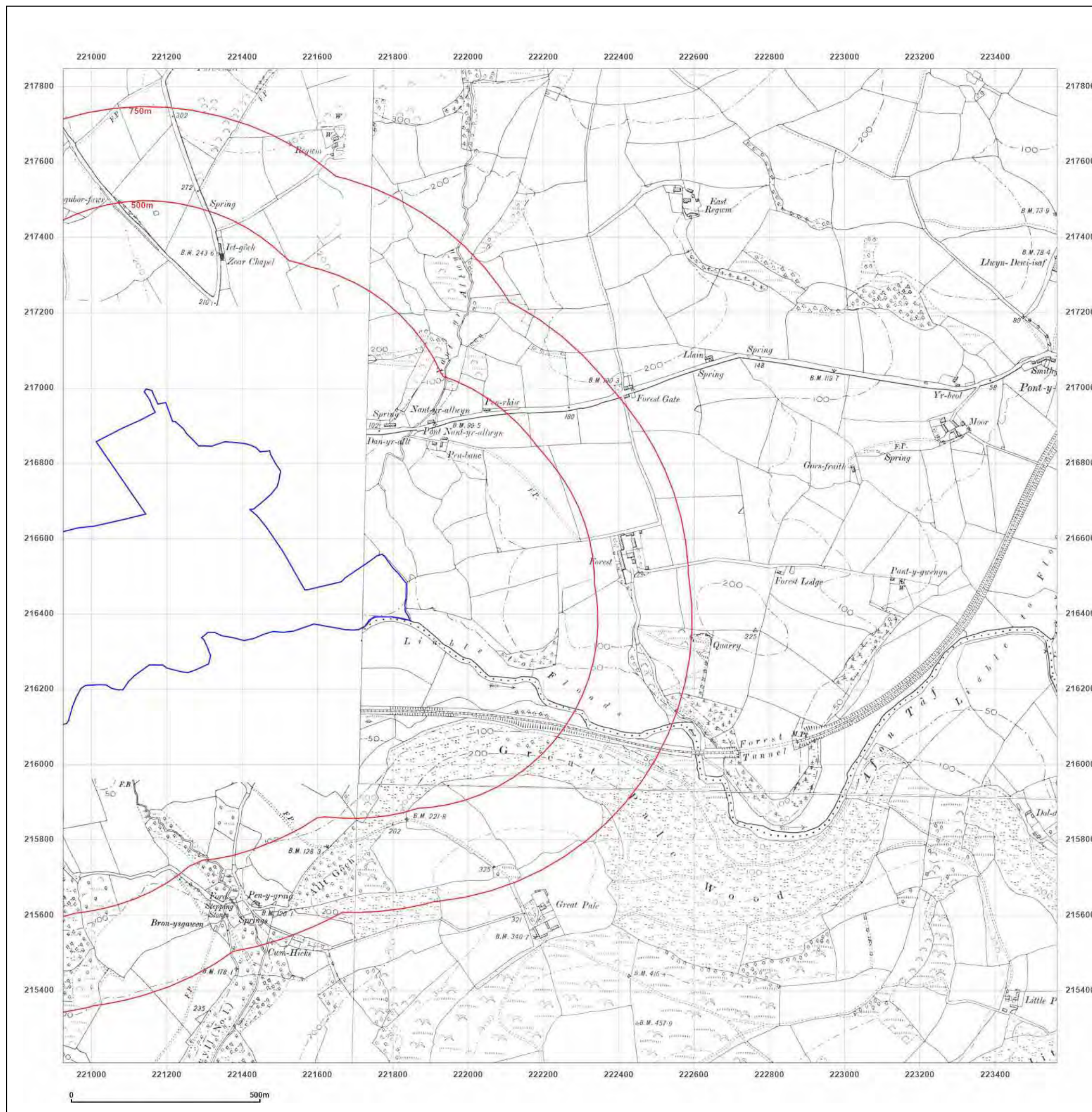


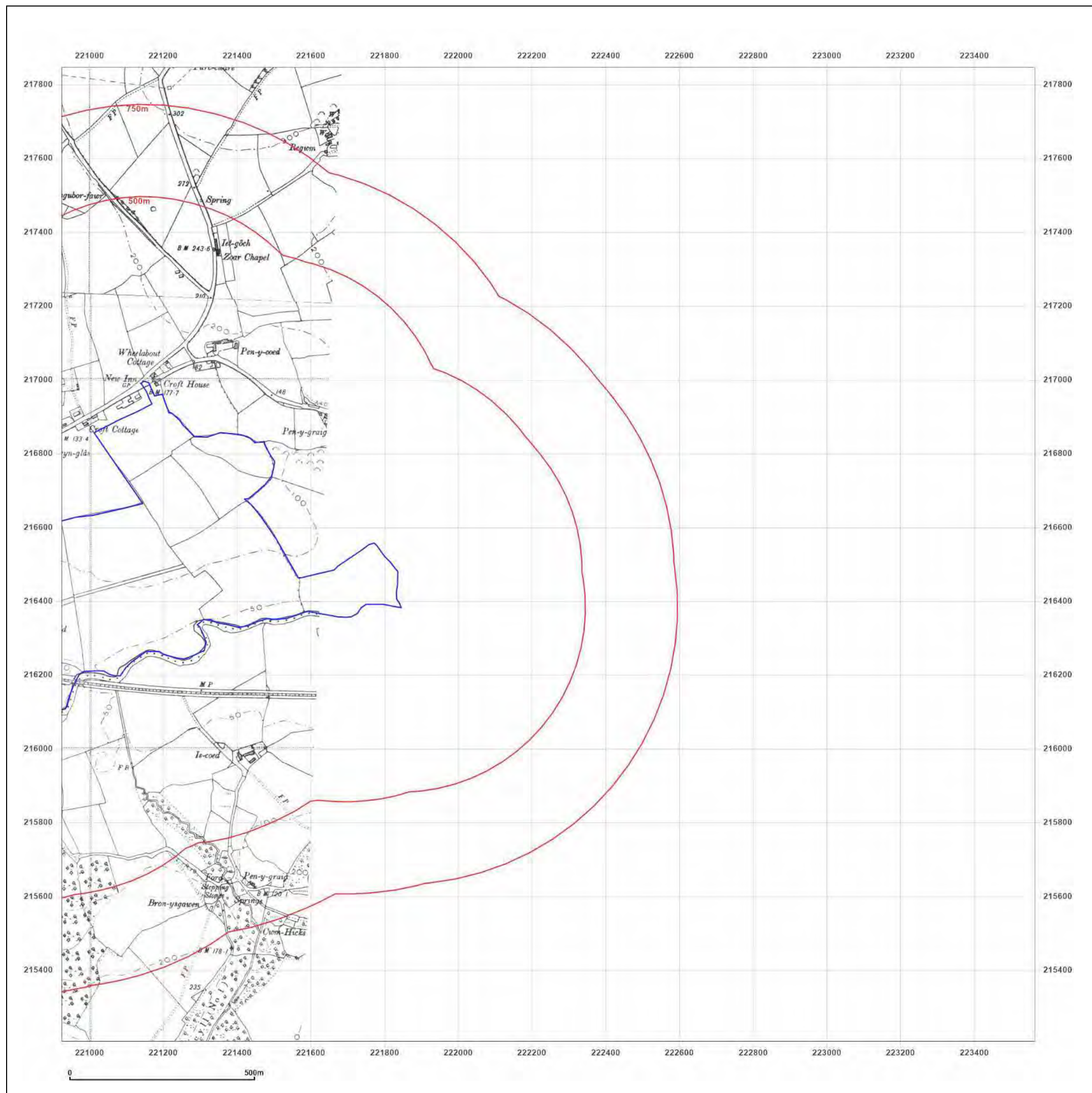
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Site Details:

Ty Newydd Farm, WHITLAND,
SA34 0DA

Client Ref: Site_C
Report Ref: WSP-8623850_SS_2_1
Grid Ref: 222243, 216526

Map Name: County Series

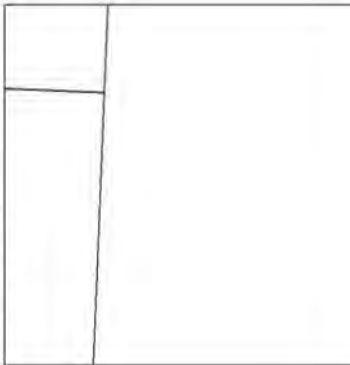
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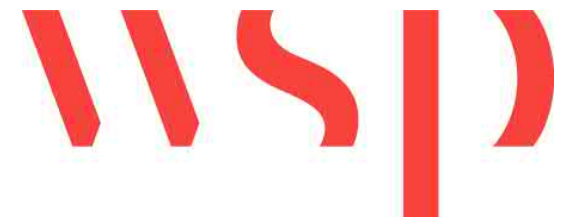


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Site Details:

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SA34 0DA

Client Ref: Site_C
Report Ref: WSP-8623850_SS_2_1
Grid Ref: 222243, 216526

Map Name: Provisional

Map date: 1963

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1963
Edition N/A
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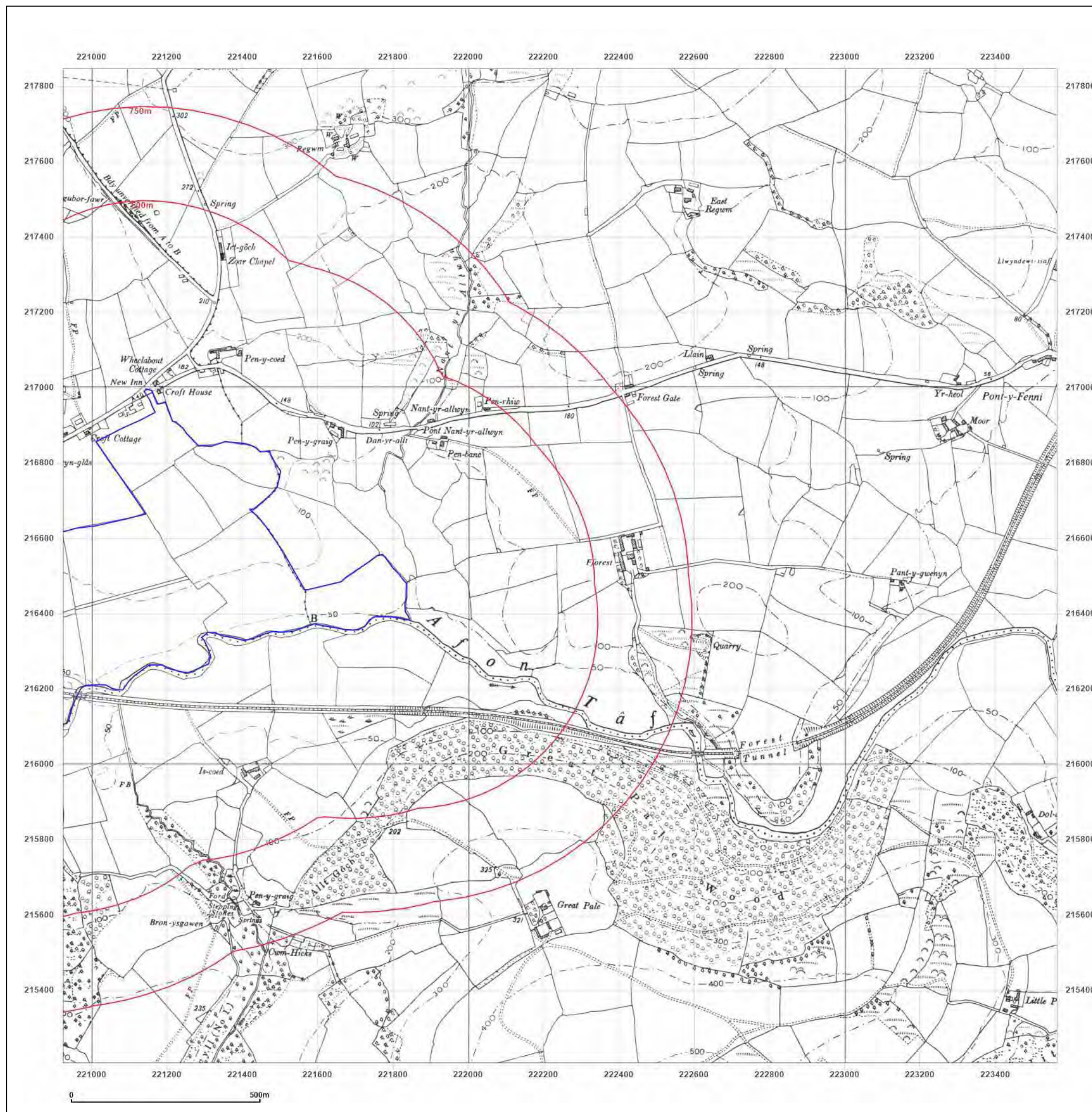


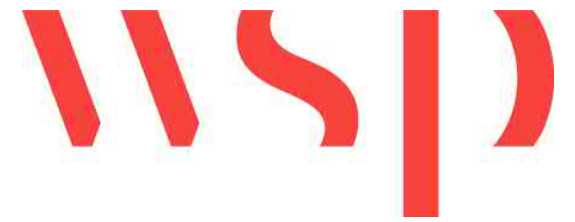
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Site Details:

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SA34 0DA

Client Ref: Site_C
Report Ref: WSP-8623850_SS_2_1
Grid Ref: 222243, 216526

Map Name: National Grid

Map date: 1973

Scale: 1:10,000

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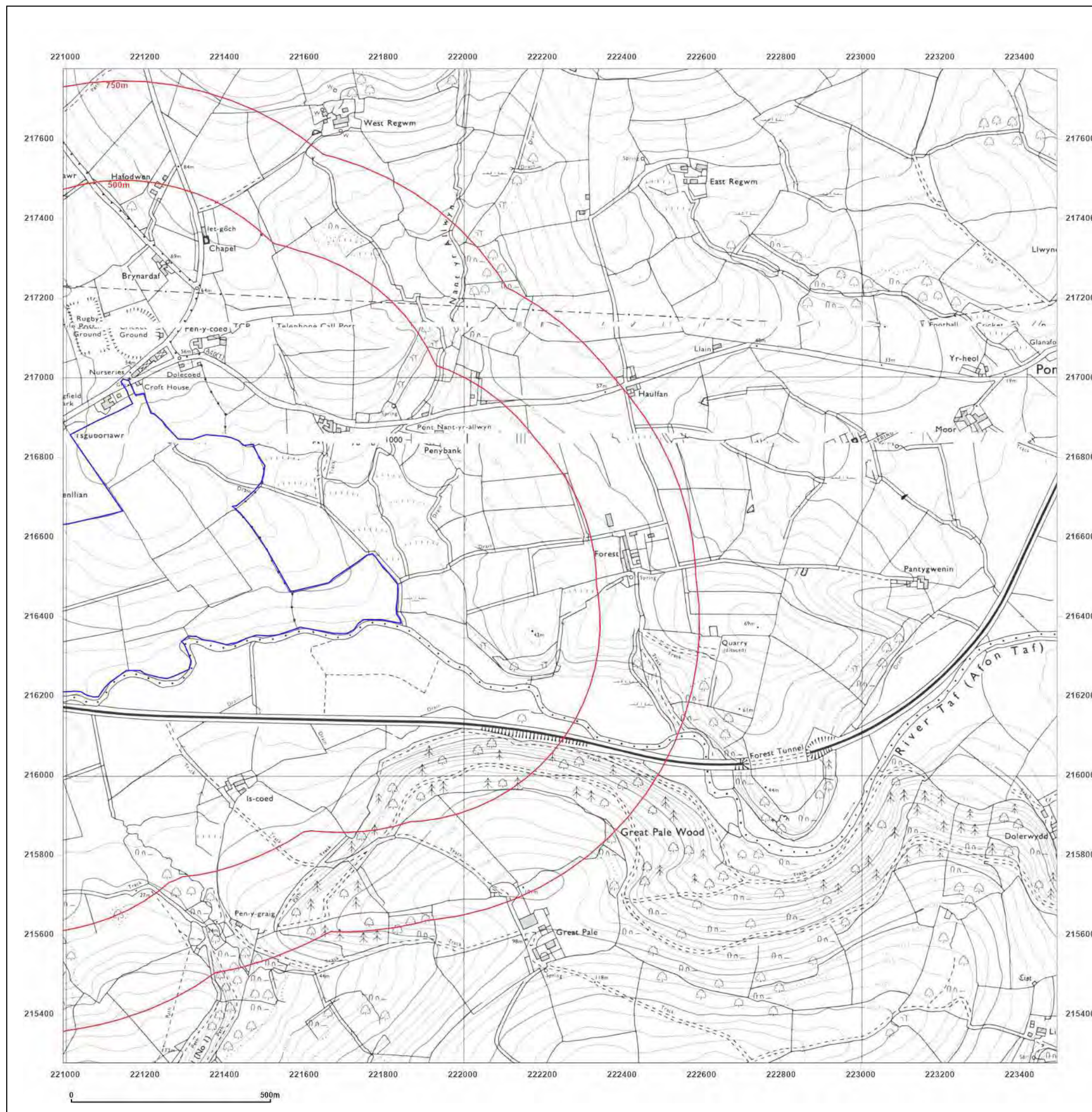


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Site Details:

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Client Ref: Site_C
Report Ref: WSP-8623850_SS_2_1
Grid Ref: 222243, 216526

Map Name: National Grid

Map date: 1992

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1971
Revised 1992
Edition N/A
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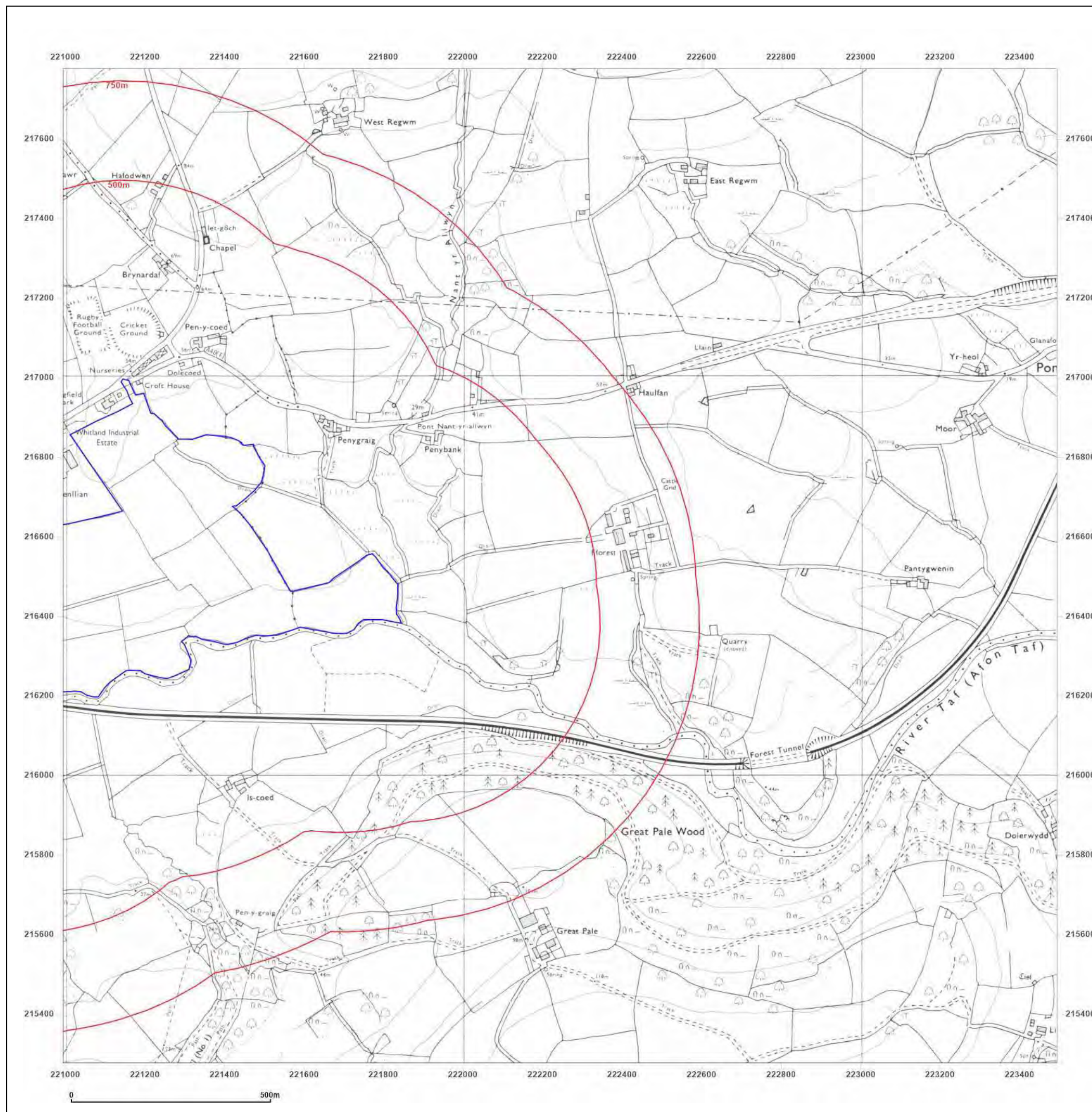


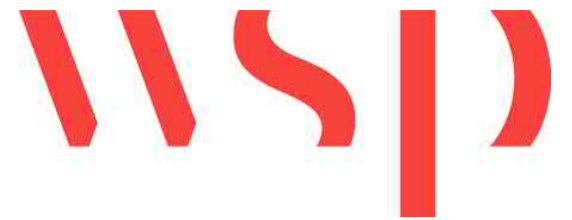
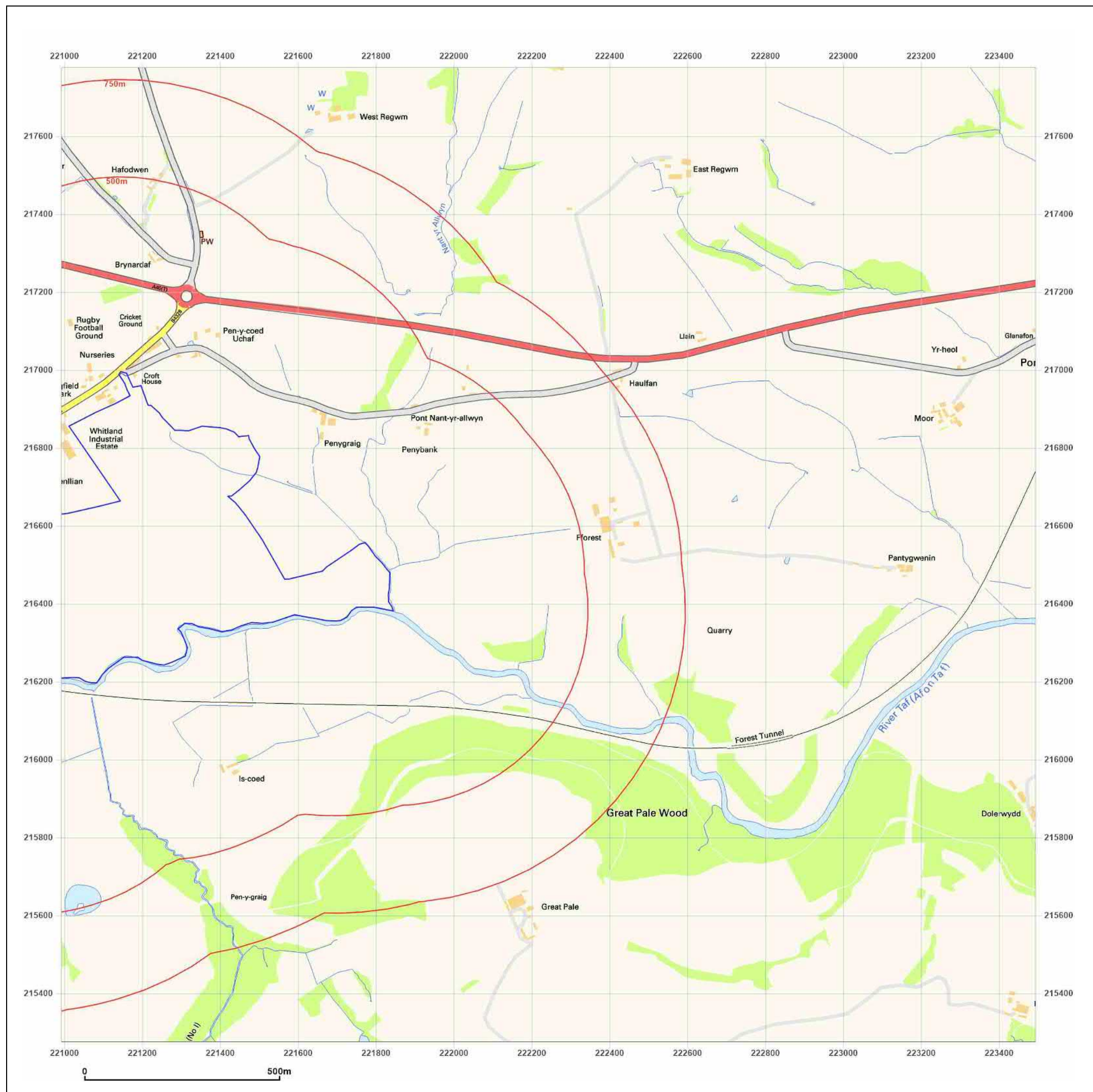
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Client Ref: Site_C
Report Ref: WSP-8623850_SS_2_1
Grid Ref: 222243, 216526

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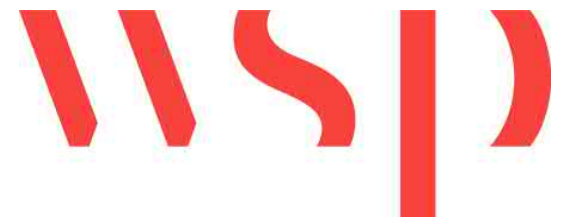
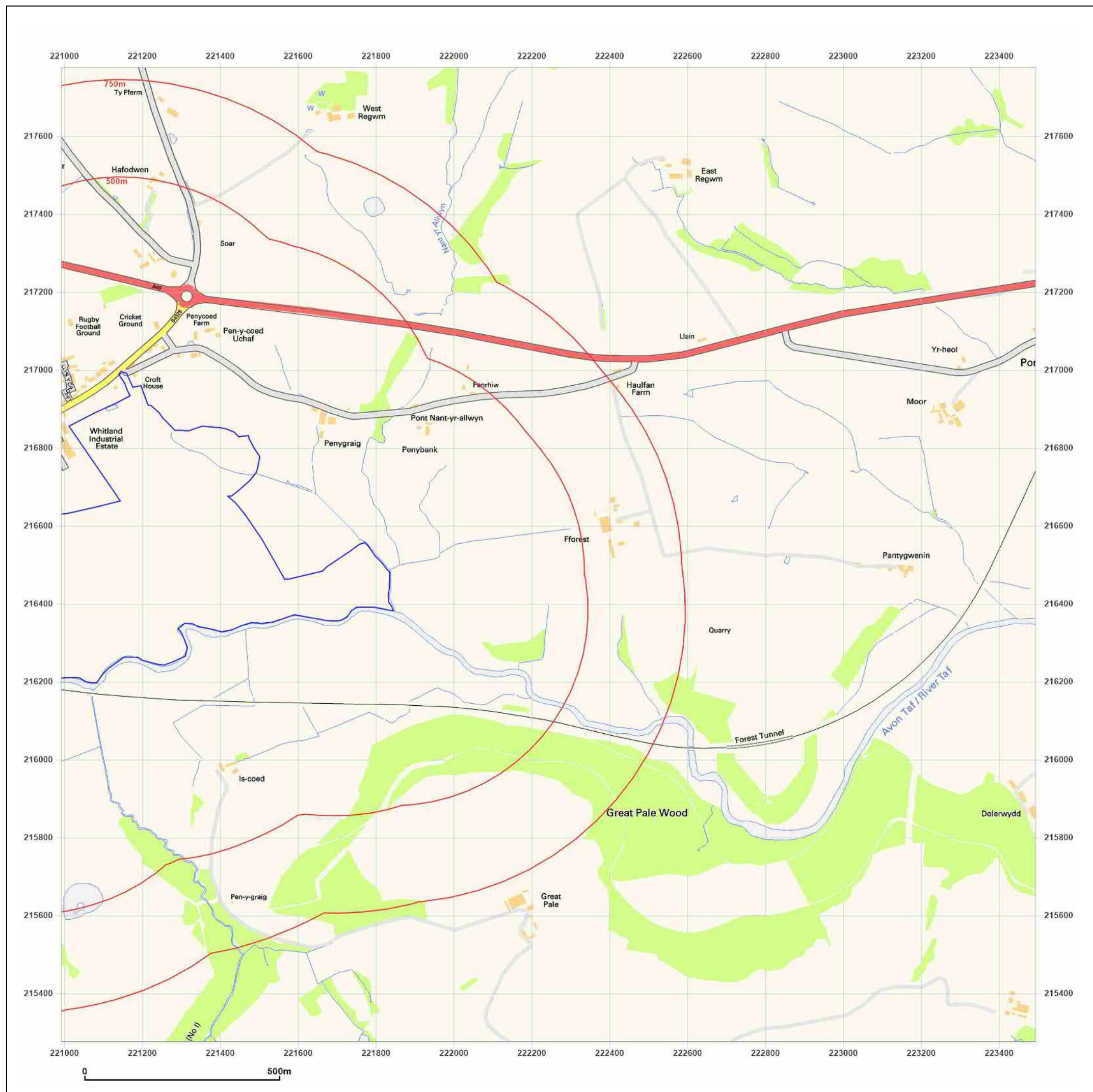


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Site Details:

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SA34 0DA

Client Ref: Site_C
Report Ref: WSP-8623850_SS_2_1
Grid Ref: 222243, 216526

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

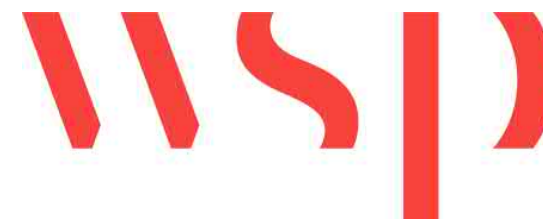


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Site Details:

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Client Ref: Site_C
Report Ref: WSP-8623850_SS_2_1
Grid Ref: 222243, 216526

Map Name: National Grid

Map date: 2022

Scale: 1:10,000

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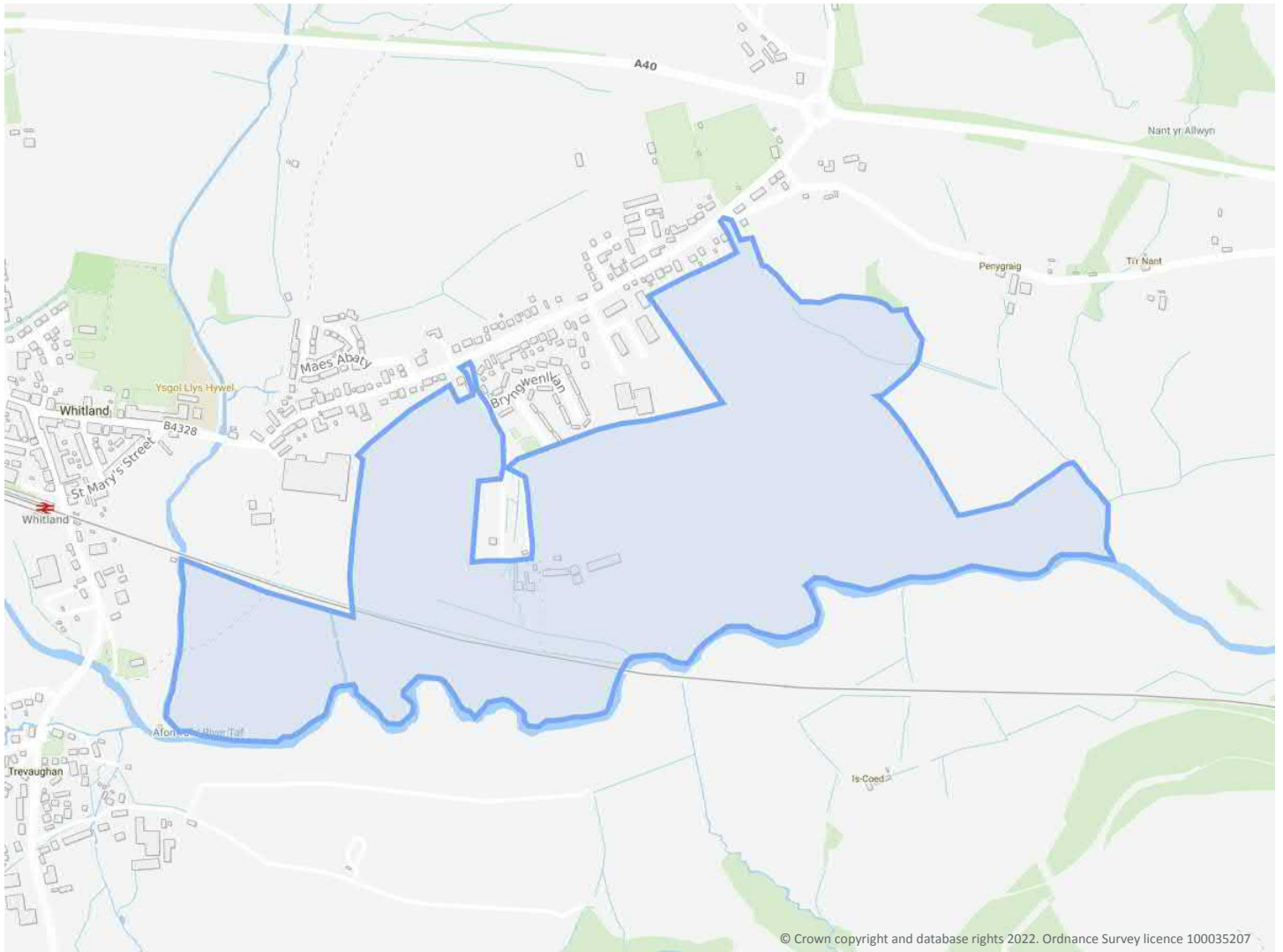
Ty Newydd Farm, WHITLAND, SA34 0DA

Order Details

Date: 25/03/2022
Your ref: Site_C
Our Ref: WSP-8623851
Client: Rebecca Hoyle

Site Details

Location: 221456 216601
Area: 64.35 ha
Authority: [Sir Gaerfyrddin - Carmarthenshire County Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

N/A: >10ha

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Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	<u>Historical industrial land uses</u>	3	15	47	37	-
17	1.2	<u>Historical tanks</u>	0	11	34	0	-
19	1.3	<u>Historical energy features</u>	3	3	2	2	-
20	1.4	Historical petrol stations	0	0	0	0	-
20	1.5	<u>Historical garages</u>	0	0	8	2	-
21	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
22	2.1	<u>Historical industrial land uses</u>	3	24	68	44	-
28	2.2	<u>Historical tanks</u>	0	13	37	0	-
30	2.3	<u>Historical energy features</u>	3	4	3	4	-
30	2.4	Historical petrol stations	0	0	0	0	-
31	2.5	<u>Historical garages</u>	0	0	11	7	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
32	3.1	Active or recent landfill	0	0	0	0	-
32	3.2	Historical landfill (BGS records)	0	0	0	0	-
33	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
33	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
33	3.5	Historical waste sites	0	0	0	0	-
33	3.6	Licensed waste sites	0	0	0	0	-
33	3.7	<u>Waste exemptions</u>	0	15	23	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
37	4.1	<u>Recent industrial land uses</u>	2	8	16	-	-
39	4.2	<u>Current or recent petrol stations</u>	0	0	1	0	-
40	4.3	Electricity cables	0	0	0	0	-
40	4.4	Gas pipelines	0	0	0	0	-
40	4.5	Sites determined as Contaminated Land	0	0	0	0	-



40	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
40	4.7	Regulated explosive sites	0	0	0	0	-
41	4.8	Hazardous substance storage/usage	0	0	0	0	-
41	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
41	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
41	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
41	4.12	Radioactive Substance Authorisations	0	0	0	0	-
42	4.13	<u>Licensed Discharges to controlled waters</u>	2	7	10	0	-
45	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
45	4.15	Pollutant release to public sewer	0	0	0	0	-
45	4.16	List 1 Dangerous Substances	0	0	0	0	-
45	4.17	List 2 Dangerous Substances	0	0	0	0	-
45	4.18	<u>Pollution Incidents (EA/NRW)</u>	1	0	10	0	-
47	4.19	Pollution inventory substances	0	0	0	0	-
47	4.20	Pollution inventory waste transfers	0	0	0	0	-
47	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
48	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
50	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
52	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
53	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
54	5.5	Groundwater vulnerability- local information	None (within 0m)				
55	5.6	<u>Groundwater abstractions</u>	2	2	0	2	18
60	5.7	<u>Surface water abstractions</u>	1	0	0	0	4
62	5.8	Potable abstractions	0	0	0	0	0
62	5.9	Source Protection Zones	0	0	0	0	-
62	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
63	6.1	<u>Water Network (OS MasterMap)</u>	12	30	68	-	-



72	6.2	Surface water features	1	11	40	-	-
72	6.3	WFD Surface water body catchments	2	-	-	-	-
73	6.4	WFD Surface water bodies	2	0	0	-	-
73	6.5	WFD Groundwater bodies	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
74	7.1	Risk of flooding from rivers and the sea	High (within 50m)				
75	7.2	Historical Flood Events	2	0	2	-	-
75	7.3	Flood Defences	0	1	5	-	-
76	7.4	Areas Benefiting from Flood Defences	0	2	1	-	-
76	7.5	Flood Storage Areas	0	0	0	-	-
77	7.6	Flood Zone 2	Identified (within 50m)				
78	7.7	Flood Zone 3	Identified (within 50m)				
Page	Section	Surface water flooding					
79	8.1	Surface water flooding	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
81	9.1	Groundwater flooding	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
82	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	1
83	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
83	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
83	10.4	Special Protection Areas (SPA)	0	0	0	0	0
83	10.5	National Nature Reserves (NNR)	0	0	0	0	0
84	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
84	10.7	Designated Ancient Woodland	0	0	0	6	76
87	10.8	Biosphere Reserves	0	0	0	0	0
87	10.9	Forest Parks	0	0	0	0	0
88	10.10	Marine Conservation Zones	0	0	0	0	0
88	10.11	Green Belt	0	0	0	0	0
88	10.12	Proposed Ramsar sites	0	0	0	0	0



88	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
88	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
89	10.15	Nitrate Sensitive Areas	0	0	0	0	0
89	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
90	10.17	SSSI Impact Risk Zones	0	-	-	-	-
90	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
91	11.1	World Heritage Sites	0	0	0	-	-
92	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
92	11.3	National Parks	0	0	0	-	-
92	11.4	Listed Buildings	0	0	1	-	-
93	11.5	Conservation Areas	0	0	0	-	-
93	11.6	Scheduled Ancient Monuments	0	0	0	-	-
93	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
94	12.1	Agricultural Land Classification	Grade 3b (within 250m)				
95	12.2	Open Access Land	0	0	0	-	-
95	12.3	Tree Felling Licences	0	0	0	-	-
95	12.4	Environmental Stewardship Schemes	0	0	0	-	-
96	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
97	13.1	Priority Habitat Inventory	0	0	0	-	-
97	13.2	Habitat Networks	0	0	0	-	-
97	13.3	Open Mosaic Habitat	0	0	0	-	-
97	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
98	14.1	10k Availability	Identified (within 500m)				
99	14.2	Artificial and made ground (10k)	0	0	0	0	-
100	14.3	Superficial geology (10k)	0	0	0	0	-

100	14.4	Landslip (10k)	0	0	0	0	-
101	14.5	Bedrock geology (10k)	0	0	0	0	-
101	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<u>102</u>	<u>15.1</u>	<u>50k Availability</u>	Identified (within 500m)				
103	15.2	Artificial and made ground (50k)	0	0	0	0	-
103	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<u>104</u>	<u>15.4</u>	<u>Superficial geology (50k)</u>	2	0	1	2	-
<u>105</u>	<u>15.5</u>	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
105	15.6	Landslip (50k)	0	0	0	0	-
105	15.7	Landslip permeability (50k)	None (within 50m)				
<u>106</u>	<u>15.8</u>	<u>Bedrock geology (50k)</u>	4	1	5	5	-
<u>107</u>	<u>15.9</u>	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
<u>108</u>	<u>15.10</u>	<u>Bedrock faults and other linear features (50k)</u>	0	2	2	4	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
<u>109</u>	<u>16.1</u>	<u>BGS Boreholes</u>	0	0	8	-	-
Page	Section	Natural ground subsidence					
<u>111</u>	<u>17.1</u>	<u>Shrink swell clays</u>	Very low (within 50m)				
<u>113</u>	<u>17.2</u>	<u>Running sands</u>	Low (within 50m)				
<u>115</u>	<u>17.3</u>	<u>Compressible deposits</u>	Moderate (within 50m)				
<u>117</u>	<u>17.4</u>	<u>Collapsible deposits</u>	Very low (within 50m)				
<u>118</u>	<u>17.5</u>	<u>Landslides</u>	Low (within 50m)				
<u>120</u>	<u>17.6</u>	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
122	18.1	Natural cavities	0	0	0	0	-
123	18.2	BritPits	0	0	0	0	-
<u>123</u>	<u>18.3</u>	<u>Surface ground workings</u>	2	4	15	-	-
<u>124</u>	<u>18.4</u>	<u>Underground workings</u>	0	0	0	0	5
124	18.5	Historical Mineral Planning Areas	0	0	0	0	-



<u>125</u>	<u>18.6</u>	<u>Non-coal mining</u>	1	0	1	1	0
125	18.7	Mining cavities	0	0	0	0	0
125	18.8	JPB mining areas	None (within 0m)				
126	18.9	Coal mining	None (within 0m)				
126	18.10	Brine areas	None (within 0m)				
126	18.11	Gypsum areas	None (within 0m)				
126	18.12	Tin mining	None (within 0m)				
126	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<u>127</u>	<u>19.1</u>	<u>Radon</u>	Between 3% and 5% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>129</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	28	5	-	-	-
130	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
131	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
132	21.1	Underground railways (London)	0	0	0	-	-
132	21.2	Underground railways (Non-London)	0	0	0	-	-
133	21.3	Railway tunnels	0	0	0	-	-
<u>133</u>	<u>21.4</u>	<u>Historical railway and tunnel features</u>	0	8	13	-	-
134	21.5	Royal Mail tunnels	0	0	0	-	-
<u>134</u>	<u>21.6</u>	<u>Historical railways</u>	0	1	0	-	-
<u>134</u>	<u>21.7</u>	<u>Railways</u>	6	12	9	-	-
136	21.8	Crossrail 1	0	0	0	0	-
136	21.9	Crossrail 2	0	0	0	0	-
136	21.10	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 14/05/2020

Site Area: 64.35ha



Recent site history - 2017 aerial photograph



Capture Date: 25/05/2017

Site Area: 64.35ha



Recent site history - 2013 aerial photograph



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Capture Date: 04/06/2013

Site Area: 64.35ha



Recent site history - 2009 aerial photograph



Capture Date: 19/04/2009

Site Area: 64.35ha



Recent site history - 2000 aerial photograph

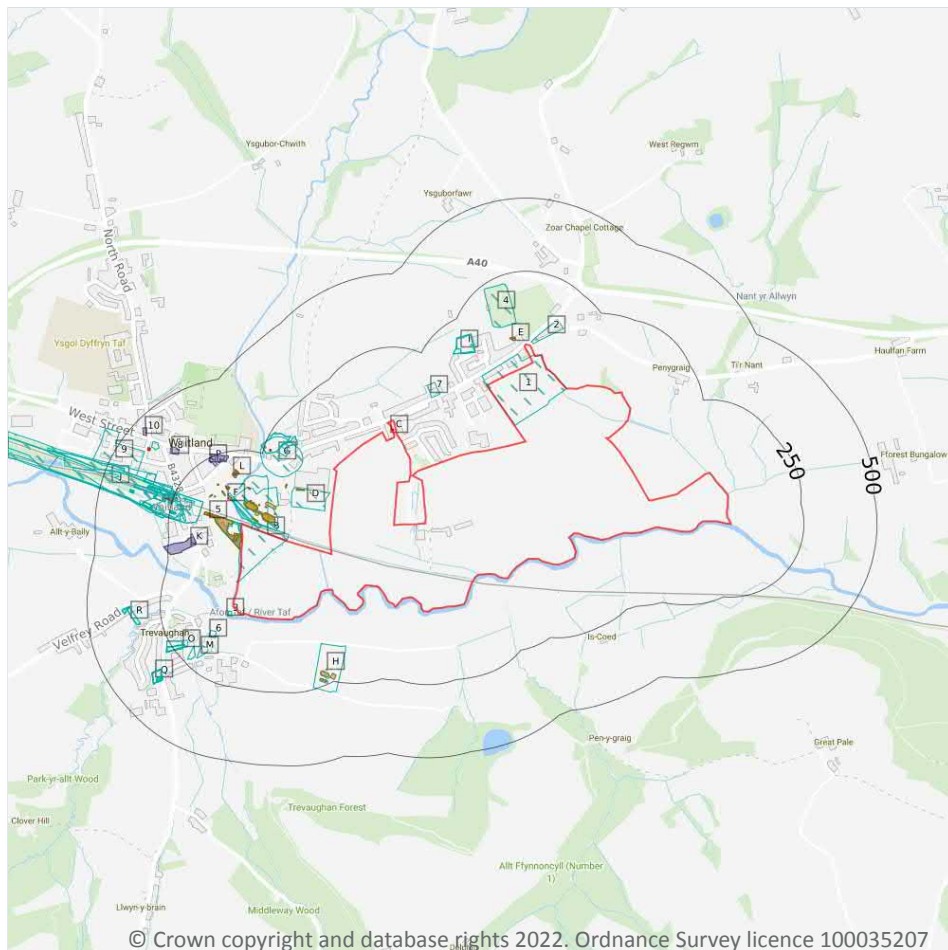


Capture Date: 21/07/2000

Site Area: 64.35ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

1.1 Historical industrial land uses

Records within 500m

102

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
1	On site	Industrial Estate	1992	256217



ID	Location	Land use	Dates present	Group ID
A	On site	Gas Works	1948	314642
B	On site	Cuttings	1887	268752
A	2m W	Gas Works	1948	315174
A	2m W	Gas Holder Station	1973 - 1992	296832
B	3m N	Railway Sidings	1948 - 1963	290321
A	6m W	Unspecified Works	1963	253345
B	8m N	Railway Sidings	1948	271672
2	12m NE	Nurseries	1973 - 1992	316146
A	13m W	Gasometer	1948	253609
A	13m W	Unspecified Tanks	1973 - 1992	316192
D	13m W	Dairy	1948	271339
A	15m W	Gasometer	1948	285934
A	16m W	Unspecified Tanks	1963	294225
3	16m SW	Pump House	1973 - 1992	292692
B	17m N	Unspecified Factory	1973 - 1992	300836
B	19m N	Dairy	1948 - 1963	280037
B	34m N	Unspecified Tanks	1973 - 1992	308145
B	52m N	Unspecified Tanks	1973 - 1992	272272
B	55m N	Unspecified Tanks	1948	300497
B	56m N	Unspecified Tanks	1963	282310
4	80m NW	Unspecified Ground Workings	1973 - 1992	273500
6	100m SW	Sewage Pumping Station	1973 - 1992	279483
G	110m W	Unspecified Mill	1963	261795
H	117m SE	Sewage Works	1973 - 1992	310934
I	119m NW	Brick Yard	1948	297058
I	119m NW	Brick Yard	1887 - 1906	297089
I	119m NW	Brick Yard	1908	292325
I	123m NW	Brick Yard	1963	316532



ID	Location	Land use	Dates present	Group ID
J	148m W	Railway Sidings	1906 - 1908	277759
J	148m W	Railway Sidings	1948	305897
G	149m NW	Corn Mill	1908 - 1948	293793
G	149m NW	Corn Mill	1887	294319
7	154m NE	Police Station	1973 - 1992	298399
M	161m SW	Unspecified Mill	1973 - 1992	276222
J	177m NW	Railway Building	1906 - 1948	287017
J	180m W	Railway Sidings	1948	277991
G	184m NW	Disused Corn Mill	1948	253987
G	184m NW	Corn Mill	1906	273949
J	190m W	Railway Building	1948	256333
M	191m SW	Unspecified Mill	1908	261791
O	193m SW	Unspecified Mill	1905	313872
J	201m W	Railway Sidings	1973 - 1992	313369
H	206m SE	Unspecified Tanks	1973 - 1992	314728
J	206m W	Railway Sidings	1887	311580
J	208m W	Railway Sidings	1948	295109
O	209m SW	Corn Mill	1887	254268
O	209m SW	Unspecified Mill	1949	299821
J	210m W	Railway Buildings	1887	251527
O	211m SW	Unspecified Mill	1948	274397
O	211m SW	Unspecified Mill	1906	292845
J	216m W	Railway Building	1887	256330
H	223m S	Unspecified Tanks	1973 - 1992	279208
J	227m W	Railway Building	1887	309173
J	227m W	Unspecified Tank	1887	252435
J	229m W	Railway Building	1908 - 1948	288611
J	231m W	Railway Building	1948	276887

ID	Location	Land use	Dates present	Group ID
J	231m W	Railway Building	1906	313081
J	232m W	Railway Building	1948	311386
J	243m NW	Railway Station	1973	281484
J	243m NW	Railway Station	1992	298898
J	246m W	Railway Building	1948	279071
J	248m W	Railway Station	1906	289766
J	248m W	Railway Station	1948	291353
J	249m NW	Railway Building	1948	318345
J	250m NW	Railway Building	1887	289320
J	250m NW	Railway Building	1948	311391
J	251m W	Railway Building	1948	293711
J	254m W	Railway Building	1887	279978
J	266m W	Railway Building	1948	281993
J	266m W	Railway Building	1906	291732
J	273m W	Railway Building	1887	289233
J	274m W	Railway Station	1948	274903
J	279m W	Railway Station	1887	297203
J	279m W	Railway Station	1908	312458
J	311m W	Engine Shed	1906	283085
J	311m W	Engine Shed	1948	290939
J	313m W	Railway Building	1908	256334
J	313m W	Engine Shed	1948	272268
Q	321m SW	Unspecified Mill	1948	261790
R	323m W	Smithy	1908	301202
R	323m W	Smithy	1948	293790
Q	324m SW	Sawmill	1908	314545
Q	326m SW	Sawmill	1887	301466
Q	326m SW	Sawmill	1949	310601



ID	Location	Land use	Dates present	Group ID
J	331m NW	Railway Building	1948	298020
J	332m NW	Railway Building	1973 - 1992	297780
J	338m W	Railway Building	1948	256328
Q	342m SW	Sawmill	1906	275953
Q	342m SW	Sawmill	1948	316937
J	346m W	Unspecified Tank	1887	252437
Q	347m SW	Sawmill	1905	280516
R	351m W	Smithy	1948	282710
R	351m W	Smithy	1906	289214
R	360m W	Smithy	1948	272134
R	360m W	Smithy	1887	274328
S	383m NW	Fire Station	1973 - 1992	277896
J	384m W	Railway Building	1887	301802
J	385m W	Railway Building	1908 - 1948	284182
J	385m W	Railway Building	1948	281248
9	396m NW	Unspecified Depot	1948	254420
J	475m W	Railway Building	1887	256339

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

45

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
A	3m W	Gas Holder Station	1969 - 1989	36162



ID	Location	Land use	Dates present	Group ID
A	13m W	Gas Holder	1969	34936
A	14m W	Gasholders	1989	34493
B	25m N	Tanks	1995	34627
B	37m N	Tanks	1995	35834
B	39m N	Tanks	1989	35912
E	39m NW	Tanks	1997	34664
B	39m N	Tanks	1969	35175
E	43m NW	Tanks	1997	34661
B	44m N	Unspecified Tank	1989 - 1995	36585
E	49m NW	Tanks	1997	34662
B	55m N	Unspecified Tank	1995	33261
B	56m N	Tanks	1969	35595
B	56m N	Tanks	1989	35128
B	56m N	Tanks	1995	35313
B	69m N	Unspecified Tank	1995	33265
B	78m N	Tanks	1969	35331
B	78m N	Tanks	1969	34657
B	80m N	Tanks	1969	34658
B	81m N	Unspecified Tank	1995	33262
B	86m N	Tanks	1989 - 1995	35683
5	87m W	Tanks	1969 - 1989	35211
F	89m NW	Tanks	1995	34656
D	101m W	Tanks	1995	34659
F	111m NW	Tanks	1989 - 1995	36286
B	119m N	Unspecified Tank	1969	35814
B	121m N	Unspecified Tank	1995	35168
B	122m N	Unspecified Tank	1989	35274
F	125m N	Tanks	1995	35939



ID	Location	Land use	Dates present	Group ID
F	127m NW	Tanks	1989	35201
F	128m N	Tanks	1969	36226
F	129m NW	Tanks	1969	34655
F	140m NW	Tanks	1969	34652
F	142m NW	Tanks	1969	34653
F	153m NW	Unspecified Tank	1989	33263
L	158m N	Tanks	1995	36638
D	161m W	Tanks	1969	34660
D	163m W	Unspecified Tank	1989	33260
L	164m N	Tanks	1989	35059
L	171m N	Tanks	1989	36610
L	173m N	Tanks	1989	35124
H	200m SE	Tanks	1995	34625
H	201m SE	Unspecified Tank	1970	33266
H	223m S	Tanks	1970	34626
H	223m SE	Settling Tanks	1970	34923

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

10

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
C	On site	Electricity Substation	1995	17404
C	On site	Electricity Transformer	1969	18176



ID	Location	Land use	Dates present	Group ID
C	On site	Electricity Transformer	1989	18807
A	3m W	Gas Holder Station	1969 - 1989	17946
A	13m W	Gas Holder	1969	17751
A	14m W	Gasholders	1989	17696
G	223m W	Electricity Substation	1995	17403
G	224m W	Electricity Transformer	1969 - 1989	18607
S	401m NW	Electricity Transformer	1969	17668
S	402m NW	Electricity Substation	1995 - 1997	18664

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

10

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
K	156m W	Garage	1995	6140
K	157m W	Garage	1989	6151
N	171m W	Garage	1997	6070



ID	Location	Land use	Dates present	Group ID
N	171m W	Garage	1995	6368
P	216m NW	Garage	1995	5847
P	221m N	Garage	1995	6012
P	222m N	Garage	1969 - 1989	6276
P	235m NW	Garage	1969 - 1989	6390
8	320m NW	Garage	1969 - 1997	6241
10	443m NW	Garage	1969	5714

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

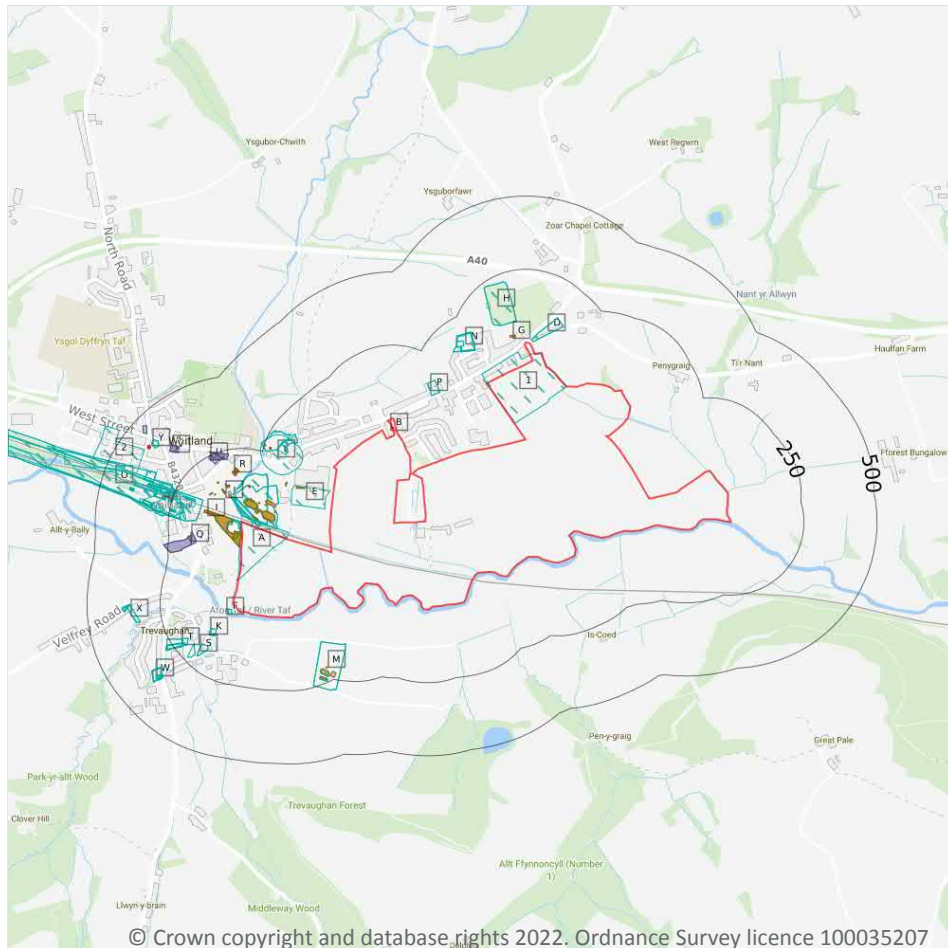
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

2.1 Historical industrial land uses

Records within 500m

139

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 22**

ID	Location	Land Use	Date	Group ID
1	On site	Industrial Estate	1992	256217
A	On site	Gas Works	1948	314642
C	On site	Cuttings	1887	268752



ID	Location	Land Use	Date	Group ID
A	2m W	Gas Works	1948	315174
A	2m W	Gas Holder Station	1973	296832
A	2m W	Gas Holder Station	1992	296832
C	3m N	Railway Sidings	1948	290321
A	6m W	Unspecified Works	1963	253345
C	8m N	Railway Sidings	1948	271672
C	10m N	Railway Sidings	1963	290321
D	12m NE	Nurseries	1973	316146
D	12m NE	Nurseries	1992	316146
A	13m W	Unspecified Tanks	1973	316192
A	13m W	Unspecified Tanks	1992	316192
A	13m W	Gasometer	1948	253609
E	13m W	Dairy	1948	271339
A	15m W	Gasometer	1948	285934
A	16m W	Unspecified Tanks	1963	294225
F	16m SW	Pump House	1973	292692
F	16m SW	Pump House	1992	292692
C	17m N	Unspecified Factory	1973	300836
C	17m N	Unspecified Factory	1992	300836
A	17m W	Gasometer	1948	285934
C	19m N	Dairy	1948	280037
C	19m N	Dairy	1963	280037
C	34m N	Unspecified Tanks	1973	308145
C	34m N	Unspecified Tanks	1992	308145
C	52m N	Unspecified Tanks	1973	272272
C	52m N	Unspecified Tanks	1992	272272
C	55m N	Unspecified Tanks	1948	300497
C	56m N	Unspecified Tanks	1963	282310

ID	Location	Land Use	Date	Group ID
C	57m N	Unspecified Tanks	1948	300497
H	80m NW	Unspecified Ground Workings	1973	273500
H	80m NW	Unspecified Ground Workings	1992	273500
K	100m SW	Sewage Pumping Station	1973	279483
K	100m SW	Sewage Pumping Station	1992	279483
L	110m W	Unspecified Mill	1963	261795
M	117m SE	Sewage Works	1973	310934
M	117m SE	Sewage Works	1992	310934
N	119m NW	Brick Yard	1948	297058
N	119m NW	Brick Yard	1887	297089
N	119m NW	Brick Yard	1908	292325
N	119m NW	Brick Yard	1908	292325
N	121m NW	Brick Yard	1948	297058
N	121m NW	Brick Yard	1906	297089
N	123m NW	Brick Yard	1963	316532
O	148m W	Railway Sidings	1948	305897
O	148m W	Railway Sidings	1906	277759
L	149m NW	Corn Mill	1948	293793
L	149m NW	Corn Mill	1887	294319
P	154m NE	Police Station	1973	298399
P	154m NE	Police Station	1992	298399
S	161m SW	Unspecified Mill	1973	276222
S	161m SW	Unspecified Mill	1992	276222
L	165m W	Corn Mill	1908	293793
O	170m W	Railway Sidings	1908	277759
O	177m NW	Railway Building	1948	287017
O	177m NW	Railway Building	1906	287017
O	180m W	Railway Sidings	1948	277991



ID	Location	Land Use	Date	Group ID
L	184m NW	Disused Corn Mill	1948	253987
L	184m NW	Corn Mill	1906	273949
O	190m W	Railway Building	1948	256333
S	191m SW	Unspecified Mill	1908	261791
O	191m W	Railway Building	1948	287017
O	192m W	Railway Building	1908	287017
T	193m SW	Unspecified Mill	1905	313872
T	193m SW	Unspecified Mill	1905	313872
O	201m W	Railway Sidings	1973	313369
O	201m W	Railway Sidings	1992	313369
M	206m SE	Unspecified Tanks	1973	314728
M	206m SE	Unspecified Tanks	1992	314728
O	206m W	Railway Sidings	1887	311580
O	208m W	Railway Sidings	1948	295109
T	209m SW	Unspecified Mill	1949	299821
T	209m SW	Corn Mill	1887	254268
O	210m W	Railway Buildings	1887	251527
T	211m SW	Unspecified Mill	1948	274397
T	211m SW	Unspecified Mill	1906	292845
T	213m SW	Unspecified Mill	1948	274397
O	216m W	Railway Building	1887	256330
M	223m S	Unspecified Tanks	1973	279208
M	223m S	Unspecified Tanks	1992	279208
O	227m W	Railway Building	1887	309173
O	227m W	Unspecified Tank	1887	252435
O	229m W	Railway Building	1948	288611
O	231m W	Railway Building	1948	276887
O	231m W	Railway Building	1906	313081

ID	Location	Land Use	Date	Group ID
O	232m W	Railway Building	1948	311386
O	234m W	Railway Building	1908	288611
O	243m NW	Railway Station	1973	281484
O	243m NW	Railway Station	1992	298898
O	246m W	Railway Building	1948	279071
O	248m W	Railway Station	1948	291353
O	248m W	Railway Station	1906	289766
O	249m NW	Railway Building	1948	318345
O	250m NW	Railway Building	1948	311391
O	250m NW	Railway Building	1887	289320
O	251m W	Railway Building	1948	293711
O	254m W	Railway Building	1887	279978
O	266m W	Railway Building	1948	281993
O	266m W	Railway Building	1906	291732
O	273m W	Railway Building	1887	289233
O	274m W	Railway Station	1948	274903
O	274m W	Railway Station	1948	274903
O	279m W	Railway Station	1887	297203
O	279m W	Railway Station	1908	312458
O	311m W	Engine Shed	1948	290939
O	311m W	Engine Shed	1906	283085
O	311m W	Engine Shed	1948	290939
O	313m W	Railway Building	1908	256334
O	313m W	Engine Shed	1948	272268
W	321m SW	Unspecified Mill	1948	261790
X	323m W	Smithy	1908	301202
X	323m W	Smithy	1948	293790
W	324m SW	Sawmill	1908	314545



ID	Location	Land Use	Date	Group ID
W	326m SW	Sawmill	1949	310601
W	326m SW	Sawmill	1887	301466
O	331m NW	Railway Building	1948	298020
O	332m NW	Railway Building	1973	297780
O	332m NW	Railway Building	1992	297780
O	338m W	Railway Building	1948	256328
W	342m SW	Sawmill	1948	316937
W	342m SW	Sawmill	1906	275953
O	346m W	Unspecified Tank	1887	252437
W	347m SW	Sawmill	1905	280516
W	347m SW	Sawmill	1905	280516
X	351m W	Smithy	1948	282710
X	351m W	Smithy	1906	289214
X	360m W	Smithy	1948	272134
X	360m W	Smithy	1887	274328
X	361m W	Smithy	1887	274328
Y	383m NW	Fire Station	1973	277896
Y	383m NW	Fire Station	1992	277896
O	384m W	Railway Building	1887	301802
O	385m W	Railway Building	1948	284182
O	385m W	Railway Building	1948	281248
O	387m W	Railway Building	1908	284182
2	396m NW	Unspecified Depot	1948	254420
O	475m W	Railway Building	1887	256339

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

50

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 22**

ID	Location	Land Use	Date	Group ID
A	3m W	Gas Holder Station	1969	36162
A	5m W	Gas Holder Station	1989	36162
A	13m W	Gas Holder	1969	34936
A	14m W	Gasholders	1989	34493
C	25m N	Tanks	1995	34627
C	37m N	Tanks	1995	35834
C	39m N	Tanks	1989	35912
G	39m NW	Tanks	1997	34664
C	39m N	Tanks	1969	35175
G	43m NW	Tanks	1997	34661
C	44m N	Unspecified Tank	1995	36585
C	46m N	Unspecified Tank	1989	36585
G	49m NW	Tanks	1997	34662
C	55m N	Unspecified Tank	1995	33261
C	56m N	Tanks	1969	35595
C	56m N	Tanks	1989	35128
C	56m N	Tanks	1995	35313
C	69m N	Unspecified Tank	1995	33265
C	78m N	Tanks	1969	35331
C	78m N	Tanks	1969	34657
C	80m N	Tanks	1969	34658
C	81m N	Unspecified Tank	1995	33262
C	86m N	Tanks	1995	35683



ID	Location	Land Use	Date	Group ID
I	87m W	Tanks	1969	35211
I	87m W	Tanks	1989	35211
C	88m N	Tanks	1989	35683
J	89m NW	Tanks	1995	34656
E	101m W	Tanks	1995	34659
J	111m NW	Tanks	1995	36286
J	112m NW	Tanks	1989	36286
C	119m N	Unspecified Tank	1969	35814
C	121m N	Unspecified Tank	1995	35168
C	122m N	Unspecified Tank	1989	35274
J	125m N	Tanks	1995	35939
J	127m NW	Tanks	1989	35201
J	128m N	Tanks	1969	36226
J	129m NW	Tanks	1969	34655
J	140m NW	Tanks	1969	34652
J	142m NW	Tanks	1969	34653
J	153m NW	Unspecified Tank	1989	33263
R	158m N	Tanks	1995	36638
E	161m W	Tanks	1969	34660
E	163m W	Unspecified Tank	1989	33260
R	164m N	Tanks	1989	35059
R	171m N	Tanks	1989	36610
R	173m N	Tanks	1989	35124
M	200m SE	Tanks	1995	34625
M	201m SE	Unspecified Tank	1970	33266
M	223m S	Tanks	1970	34626
M	223m SE	Settling Tanks	1970	34923

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

14

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 22**

ID	Location	Land Use	Date	Group ID
B	On site	Electricity Substation	1995	17404
B	On site	Electricity Transformer	1969	18176
B	On site	Electricity Transformer	1989	18807
A	3m W	Gas Holder Station	1969	17946
A	5m W	Gas Holder Station	1989	17946
A	13m W	Gas Holder	1969	17751
A	14m W	Gasholders	1989	17696
L	223m W	Electricity Substation	1995	17403
L	224m W	Electricity Transformer	1969	18607
L	225m W	Electricity Transformer	1989	18607
Y	401m NW	Electricity Transformer	1969	17668
Y	402m NW	Electricity Substation	1995	18664
Y	402m NW	Electricity Substation	1997	18664
Y	402m NW	Electricity Substation	1995	18664

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



2.5 Historical garages

Records within 500m

18

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

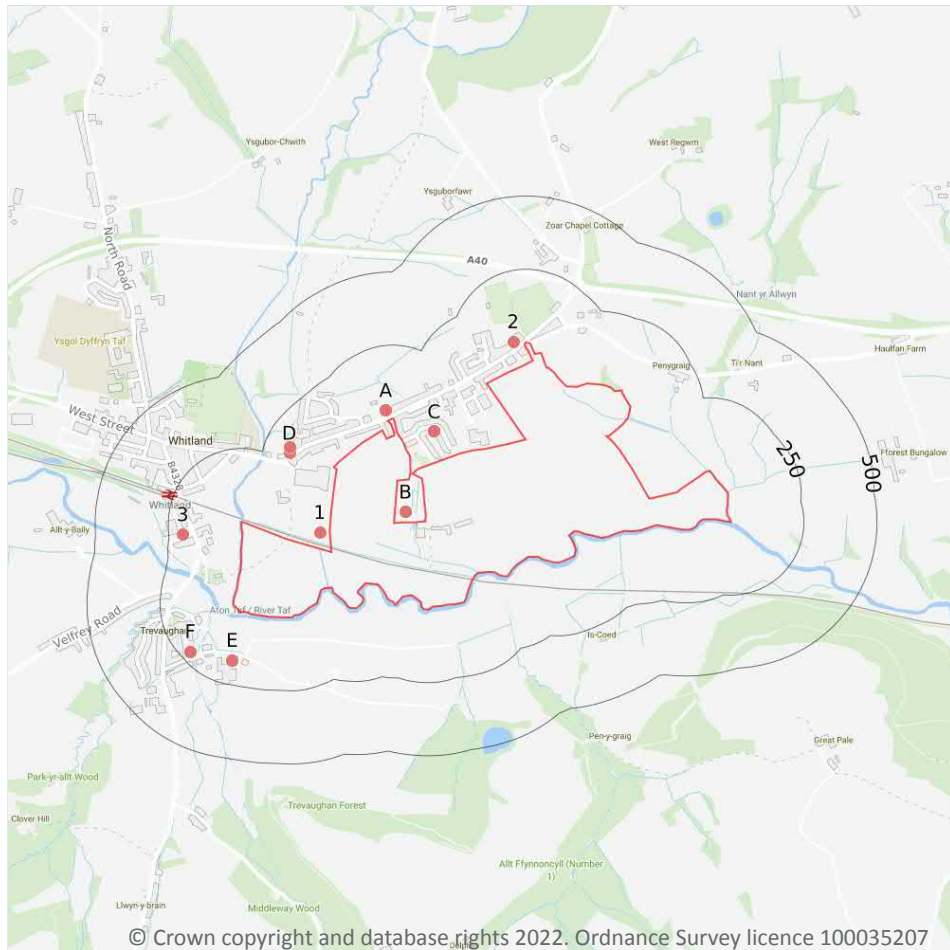
Features are displayed on the Past land use - un-grouped map on **page 22**

ID	Location	Land Use	Date	Group ID
Q	156m W	Garage	1995	6140
Q	157m W	Garage	1989	6151
Q	171m W	Garage	1995	6368
Q	171m W	Garage	1997	6070
Q	173m W	Garage	1995	6368
U	216m NW	Garage	1995	5847
U	221m N	Garage	1995	6012
U	222m N	Garage	1989	6276
U	223m N	Garage	1969	6276
U	235m NW	Garage	1989	6390
U	236m NW	Garage	1969	6390
V	320m NW	Garage	1969	6241
V	328m NW	Garage	1995	6241
V	328m NW	Garage	1997	6241
V	328m NW	Garage	1995	6241
V	329m NW	Garage	1981	6241
V	329m NW	Garage	1991	6241
3	443m NW	Garage	1969	5714

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



— Site Outline
Search buffers in metres (m)
● Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m

0

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m

0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m

0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m

38

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 32**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	33m NW	FFYNNON GLIR, SPRING GARDENS, WHITLAND, SA34 0HP	WEX099410	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
A	33m NW	FFYNNON GLIR, SPRING GARDENS, WHITLAND, SA34 OHP	WEX099410	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	33m NW	FFYNNON GLIR, SPRING GARDENS, WHITLAND, SA34 OHP	WEX099410	Disposing of waste exemption	On a farm	Burning waste in the open
A	33m NW	Land adj CIs Llwyn Ty Gwyn Spring Gardens Whitland Carmarthenshire Sa340hp	NRW-WME024441	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	33m NW	Land adj CIs Llwyn Ty Gwyn Spring Gardens Whitland Carmarthenshire Sa340hp	NRW-WME024441	Disposing of waste exemption	On a farm	Burning waste in the open
A	33m NW	Land adj CIs Llwyn Ty Gwyn Spring Gardens Whitland Carmarthenshire Sa340hp	NRW-WME024441	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	33m N	Fferm Ty Newydd Bryngwenllian Whitland Sir Gaerfyrddin SA340DB	NRW-WME025702	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	33m N	Fferm Ty Newydd Bryngwenllian Whitland Sir Gaerfyrddin SA340DB	NRW-WME025702	Treating waste exemption	On a farm	Screening and blending of waste
B	33m N	Fferm Ty Newydd Bryngwenllian Whitland Sir Gaerfyrddin SA340DB	NRW-WME025702	Using waste exemption	On a farm	Incorporation of ash into soil
B	33m N	Fferm Ty Newydd Bryngwenllian Whitland Sir Gaerfyrddin SA340DB	NRW-WME025702	Using waste exemption	On a farm	Use of waste for a specified purpose
B	33m N	Fferm Ty Newydd Bryngwenllian Whitland Sir Gaerfyrddin SA340DB	NRW-WME025702	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	33m N	Fferm Ty Newydd Bryngwenllian Whitland Sir Gaerfyrddin SA340DB	NRW-WME025702	Using waste exemption	On a farm	Use of waste in construction
B	33m N	Fferm Ty Newydd Bryngwenllian Whitland Sir Gaerfyrddin SA340DB	NRW-WME025702	Disposing of waste exemption	On a farm	Burning waste in the open
1	35m W	TP & CT Evans, DAIRY PARK, WHITLAND, WHITLAND, Carmarthenshire, SA34 OHN	NRW-WME044513	Using waste exemption	Not on a farm	Use of waste in construction



ID	Location	Site	Reference	Category	Sub-Category	Description
2	40m W	G D Harries & Sons Ltd, Whitland RFC, Whitland, Sir Gaerfyrddin, SA340HR	NRW- WME029563	Using waste exemption	Not on a farm	Use of waste in construction
C	98m N	11 Bryngwenllian, Whitland, Sir Gaerfyrddin, SA34 ODA	NRW- WME041690	Disposing of waste exemption	On a farm	Burning waste in the open
C	100m N	11 Bryngwenllian, Whitland, Sir Gaerfyrddin, sa34 Oda	NRW- WME001270	Disposing of waste exemption	Waste Exemption - Agricultural	Deposit of waste from dredging of inland waters
C	100m N	11 Bryngwenllian, Whitland, Sir Gaerfyrddin, sa34 Oda	NRW- WME001270	Disposing of waste exemption	Waste Exemption - Agricultural	Burning waste in the open
C	100m N	11 Bryngwenllian, Whitland, Sir Gaerfyrddin, sa34 Oda	NRW- WME001270	Storing waste exemption	Waste Exemption - Agricultural	Storage of waste in a secure place
C	100m N	11 Bryngwenllian, Whitland, Sir Gaerfyrddin, sa34 Oda	NRW- WME001270	Using waste exemption	Waste Exemption - Agricultural	Spreading waste on agricultural land to confer benefit
D	160m W	Plot - Old Creamery Site, Spring Gardens, Whitland, Sir Gaerfyrddin, SA34 OHH	NRW- WME041030	Using waste exemption	Not on a farm	Use of waste in construction
D	165m NW	Natural Resources Wales, The Old Creamery, Spring Gardens, Hendy-Gwyn, Carmarthenshire, sa340hh	NRW- WME010219	Using waste exemption	Not on a farm	Use of waste in construction
D	165m NW	Plot, Spring Gardens, Dyfed, SA34 OHH	NRW- WME001631	Using waste exemption	Waste Exemption - Non-Agricultural	Use of waste in construction
E	169m S	TREVAUGHAN FARM, TREVAUGHAN, WHITLAND, SA34 OQL	WEX094230	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
E	169m S	TREVAUGHAN FARM, TREVAUGHAN, WHITLAND, SA34 OQL	WEX094230	Using waste exemption	On a farm	Incorporation of ash into soil
E	169m S	TREVAUGHAN FARM, TREVAUGHAN, WHITLAND, SA34 OQL	WEX094230	Disposing of waste exemption	On a farm	Burning waste in the open
E	169m S	TREVAUGHAN FARM, TREVAUGHAN, WHITLAND, SA34 OQL	WEX094230	Using waste exemption	On a farm	Use of waste in construction

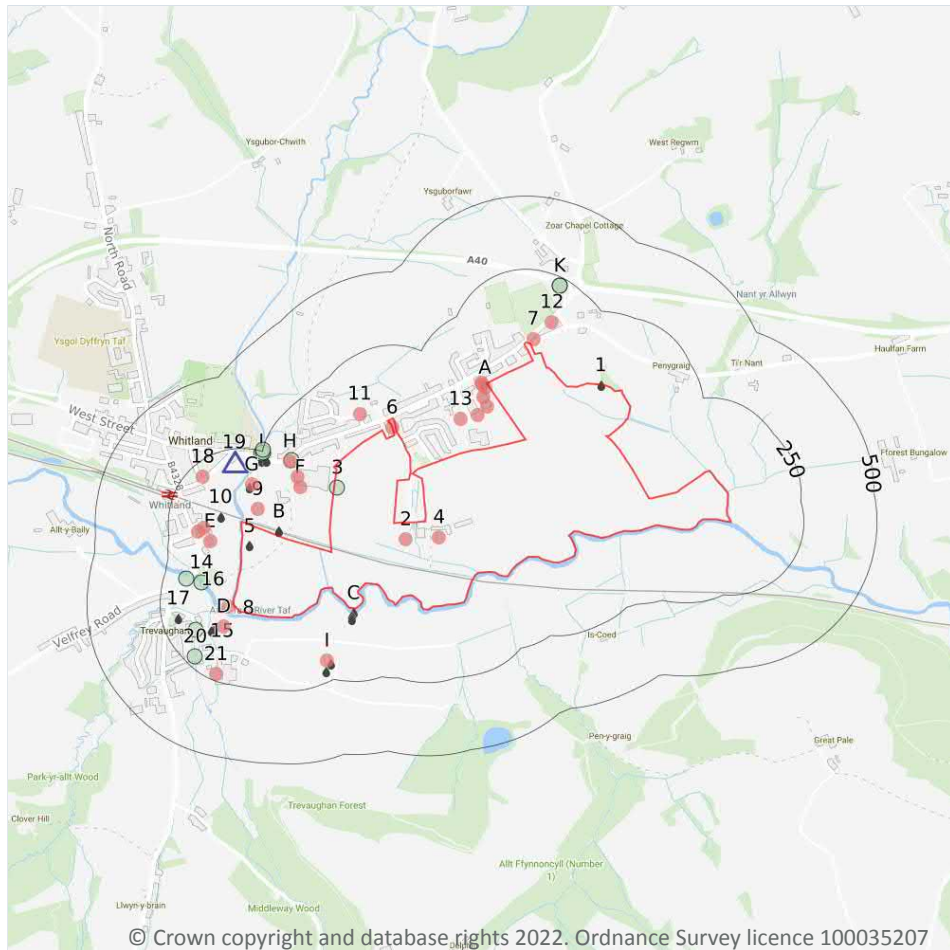


ID	Location	Site	Reference	Category	Sub-Category	Description
E	169m S	TREVAUGHAN FARM, TREVAUGHAN, WHITLAND, SA34 0QL	WEX094230	Using waste exemption	On a farm	Use of waste for a specified purpose
3	203m W	G D Harries & Sons Ltd, Willow Park, Station Road, Whitland, Sir Gaerfyrddin, SA340QE	NRW- WME022861	Using waste exemption	Not on a farm	Use of waste in construction
F	219m SW	Trevaughan Farm, Trevaughan, Whitland, Sir Gaerfyrddin, SA34 0QL	NRW- WME044375	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	219m SW	Trevaughan Farm, Trevaughan, Whitland, Sir Gaerfyrddin, SA34 0QL	NRW- WME044375	Disposing of waste exemption	On a farm	Burning waste in the open
F	219m SW	Trevaughan Farm, Trevaughan, Whitland, Sir Gaerfyrddin, SA34 0QL	NRW- WME044375	Using waste exemption	On a farm	Use of waste for a specified purpose
F	219m SW	Trevaughan Farm, Trevaughan, Whitland, Sir Gaerfyrddin, SA34 0QL	NRW- WME044375	Using waste exemption	On a farm	Incorporation of ash into soil
F	219m SW	Trevaughan Farm, Trevaughan, Whitland, Sir Gaerfyrddin, SA34 0QL	NRW- WME044375	Using waste exemption	On a farm	Use of waste in construction
F	219m SW	W GET SCOURFIELD AND SON, Trevaughan Farm, Trevaughan, Hendy-Gwyn, SA340QL	NRW- WME023531	Using waste exemption	On a farm	Use of waste in construction
F	219m SW	W GET SCOURFIELD AND SON, Trevaughan Farm, Trevaughan, Hendy-Gwyn, SA340QL	NRW- WME023531	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	219m SW	W GET SCOURFIELD AND SON, Trevaughan Farm, Trevaughan, Hendy-Gwyn, SA340QL	NRW- WME023531	Using waste exemption	On a farm	Incorporation of ash into soil
F	219m SW	W GET SCOURFIELD AND SON, Trevaughan Farm, Trevaughan, Hendy-Gwyn, SA340QL	NRW- WME023531	Using waste exemption	On a farm	Use of waste for a specified purpose

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- ▲ Current or recent petrol stations
- ◆ Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

26

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 37**

ID	Location	Company	Address	Activity	Category
2	On site	Slurry Bed	Dyfed, SA34	Waste Storage, Processing and Disposal	Infrastructure and Facilities
4	On site	Slurry Bed	Dyfed, SA34	Waste Storage, Processing and Disposal	Infrastructure and Facilities
6	1m W	Electricity Sub Station	Dyfed, SA34	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
A	14m SW	Connaught Shutters & Blinds	Whitland Delivery Office Unit 16-17, Spring Gardens Industrial Estate, Whitland, Dyfed, SA34 0HZ	Curtains and Blinds	Consumer Products
A	15m W	Peter Lewis Flooring	Unit 14, Spring Gardens Industrial Estate, Whitland, Dyfed, SA34 0HZ	Construction Completion Services	Construction Services
A	18m W	West Wales Hydroponics	Unit 13, Spring Gardens Industrial Estate, Whitland, Dyfed, SA34 0HZ	Horticultural Equipment	Industrial Products
7	19m NE	Magstim	Spring Gardens, Whitland, Dyfed, SA34 0HR	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
8	19m SW	Pump House	Dyfed, SA34	Water Pumping Stations	Industrial Features
A	35m SW	Angel Motors	Unit 5, Spring Gardens Industrial Estate, Whitland, Dyfed, SA34 0HZ	Secondhand Vehicles	Motoring
A	43m SW	Whitland Ambulance Station	Ambulance Station Unit 8, Spring Gardens Industrial Estate, Whitland, Dyfed, SA34 0HZ	Ambulance and Medical Transportation Services	Health Support Services
9	59m N	Tank	Dyfed, SA34	Tanks (Generic)	Industrial Features
D	75m SW	Sewage Pumping Station	Dyfed, SA34	Waste Storage, Processing and Disposal	Infrastructure and Facilities
A	88m SW	Electricity Sub Station	Dyfed, SA34	Electrical Features	Infrastructure and Facilities
11	89m NW	Electricity Sub Station	Dyfed, SA34	Electrical Features	Infrastructure and Facilities
12	105m NE	Narberth Mini Bus Travel	Llys y Blodau Ivydene, Spring Gardens, Whitland, Dyfed, SA34 0HR	Vehicle Hire and Rental	Hire Services
E	109m W	Wynne Phillips Truck Centre	Station Road, Whitland, Dyfed, SA34 0QE	Vehicle Repair, Testing and Servicing	Repair and Servicing
13	114m N	Whitland Industrial Estate	Dyfed, SA34	Business Parks and Industrial Estates	Industrial Features
F	116m W	Tank	Dyfed, SA34	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
F	128m W	Western Seeds Distribution Centre	Distribution Centre, Spring Gardens, Whitland, Dyfed, SA34 0HN	Agricultural Machinery and Goods	Industrial Products
E	128m W	Shoreline Caravans Ltd	Shoreline, Station Road, Whitland, Dyfed, SA34 0QE	New Vehicles	Motoring
G	131m N	Tank	Dyfed, SA34	Tanks (Generic)	Industrial Features
E	149m W	Station Garage	Station Road, Whitland, Dyfed, SA34 0QE	Vehicle Repair, Testing and Servicing	Repair and Servicing
H	152m W	Alchimica Building Chemicals	2, Spring Gardens, Whitland, Dyfed, SA34 0HN	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
I	183m SE	Sewage Works	Dyfed, SA34	Waste Storage, Processing and Disposal	Infrastructure and Facilities
18	204m NW	Mido Publications Ltd	11, St. Mary Street, Whitland, Dyfed, SA34 0PY	Published Goods	Industrial Products
21	228m S	Tank	Dyfed, SA34	Tanks (Generic)	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	1
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Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 37**

ID	Location	Company	Address	LPG	Status
19	204m N	MURCO	Market Street, Whitland, Carmarthenshire, SA34 0PY	Not Applicable	Obsolete

This data is sourced from Experian.



4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0
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Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0
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Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

0

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m

19

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 37**

ID	Location	Address	Details	
1	On site	AEL-Y-BRYN WHITLAND, WHITLAND	Effluent Type: UNSPECIFIED Permit Number: BL0138401 Permit Version: 1 Receiving Water: OPEN DITCH TRIB.OF NANT YR ARL	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 05/01/1983 Effective Date: 05/01/1983 Revocation Date: 16/09/1994
5	On site	GAS HOLDER WATER -WHITLAND	Effluent Type: UNSPECIFIED Permit Number: BN0043601 Permit Version: 1 Receiving Water: RIVER GRONW	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 18/08/1971 Effective Date: 18/08/1971 Revocation Date: 18/11/1992
B	14m N	SOUTH DAIRY WISTON HAVERFORDWEST, SOUTH DAIRY WISTON HAVERFORDWES, WISTON HAVERFORDWEST, HAVERFORDWEST, HAVERFORDW	Effluent Type: UNSPECIFIED Permit Number: BN0238201 Permit Version: 1 Receiving Water: TO LAND	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 12/12/1980 Effective Date: 12/12/1980 Revocation Date: -
B	14m N	SOUTH DAIRY WISTON HAVERFORDWEST, SOUTH DAIRY WISTON HAVERFORDWES, WISTON HAVERFORDWEST, HAVERFORDWEST, HAVERFORDW	Effluent Type: UNSPECIFIED Permit Number: BN0238201 Permit Version: 1 Receiving Water: TO LAND	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 12/12/1980 Effective Date: 12/12/1980 Revocation Date: -
C	17m S	WHITLAND WWTW WHITLAND CARMS, WHITLAND WWTW, WHITLAND, CARMARTHENSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: BL0138501 Permit Version: 5 Receiving Water: RIVER TAF	Status: Effective Issue date: 26/06/2009 Effective Date: 01/01/2010 Revocation Date: -
C	17m S	WHITLAND WWTW WHITLAND CARMS, WHITLAND WWTW, WHITLAND, CARMARTHENSHIRE	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: BL0138502 Permit Version: 2 Receiving Water: AFON TAF	Status: Effective Issue date: 30/12/2005 Effective Date: 31/12/2005 Revocation Date: -



ID	Location	Address	Details	
C	29m S	WHITLAND STW	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: BL0138501 Permit Version: 1 Receiving Water: RIVER TAF	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 30/09/1983 Effective Date: 30/09/1983 Revocation Date: 07/03/2005
C	29m S	WHITLAND STW	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: BL0138501 Permit Version: 2 Receiving Water: RIVER TAF	Status: MODIFIED - (WRA 91 SCHD 10 - AS AMENDED BY ENV ACT 1995) Issue date: 08/03/2005 Effective Date: 08/03/2005 Revocation Date: 29/12/2005
C	39m S	WHITLAND WORKS INLET . . .	Effluent Type: UNSPECIFIED Permit Number: BL0138502 Permit Version: 1 Receiving Water: TAF	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 13/12/1991 Effective Date: 13/12/1991 Revocation Date: 30/12/2005
10	74m W	WHITLAND CREAMERY ST MARY'S STREET, WHITLAND CREAMERY ST MARY'S STRE, ST MARY'S STREET WHITLAND, Whitland	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BP0020501 Permit Version: 1 Receiving Water: RIVER GRONW	Status: Effective Issue date: 08/08/1986 Effective Date: 08/08/1986 Revocation Date: -
D	108m SW	Whitland Terminal Pumping Station CSO and EO, Nr Mill House, Trevaughan, Whitland, SA34 0QJ	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: BP0113001 Permit Version: 4 Receiving Water: AFON TAF	Status: Effective Issue date: 06/02/2020 Effective Date: 06/02/2020 Revocation Date: -
D	108m SW	Whitland Terminal Pumping Station CSO and EO, Nr Mill House, Trevaughan, Whitland, SA34 0QJ	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: BP0113001 Permit Version: 4 Receiving Water: AFON TAF	Status: Effective Issue date: 06/02/2020 Effective Date: 06/02/2020 Revocation Date: -
D	116m SW	WHITLAND PS TREVAUGHAN WHITLAND, WHITLAND PS, TREVAUGHAN, WHITLAND, CARMARTHENSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BP0113001 Permit Version: 3 Receiving Water: RIVER TAF	Status: Effective Issue date: 30/12/2005 Effective Date: 31/12/2005 Revocation Date: -



ID	Location	Address	Details	
G	118m N	WHITLAND CREAMERY ST MARY'S STREET, WHITLAND CREAMERY ST MARY'S STRE, ST MARY'S STREET WHITLAND, WHITLAND	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: BJ0097601 Permit Version: 1 Receiving Water: PIPE NR. RIVER GRONW	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV Issue date: 31/07/1985 Effective Date: 31/07/1985 Revocation Date: 15/03/2001
17	194m W	STP @ BETHANIA CHAPEL, Whitland, CARMARTHEN, CARMARTHENSHIRE, SA34 0QJ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: ZP3128XB Permit Version: 1 Receiving Water: AFON CWN-WAUN-GRON	Status: Effective Issue date: 06/02/2013 Effective Date: 06/02/2013 Revocation Date: -
I	200m SE	WHITLAND WWTW, Trevaughan, Whitland, Carmarthenshire, SA34 0QL	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: BL0138501 Permit Version: 6 Receiving Water: RIVER TAF	Status: Effective Issue date: 16/08/2019 Effective Date: 15/08/2019 Revocation Date: -
I	214m SE	WHITLAND WWTW, Trevaughan, Whitland, Carmarthenshire, SA34 0QL	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: BL0138501 Permit Version: 6 Receiving Water: RIVER TAF	Status: Effective Issue date: 16/08/2019 Effective Date: 15/08/2019 Revocation Date: -
J	216m N	15 METRES D/S WHITLAND BRIDGE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BP0246101 Permit Version: 1 Receiving Water: RIVER GRONW	Status: Effective Issue date: 21/07/1994 Effective Date: 21/07/1994 Revocation Date: -
J	221m N	15 Meters D/S Whitland Bridge CSO, Nr Fishers Arms, Market St, Whitland, SA34 9HH	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BP0246101 Permit Version: 3 Receiving Water: RIVER GRONW	Status: Effective Issue date: 07/10/2019 Effective Date: 07/10/2019 Revocation Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.



4.14 Pollutant release to surface waters (Red List)

Records within 500m**0**

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m**0**

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m**0**

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m**0**

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m**11**

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 37**

ID	Location	Details	
3	On site	Incident Date: 22/08/2001 Incident Identification: 26037 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
14	122m W	Incident Date: 12/05/2003 Incident Identification: 157630 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	146m W	Incident Date: 25/09/2002 Incident Identification: 110404 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
15	154m SW	Incident Date: 27/05/2015 Incident Identification: 1340268 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
16	175m W	Incident Date: 27/10/2015 Incident Identification: 1383719 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
20	216m SW	Incident Date: 27/08/2014 Incident Identification: 1271867 Pollutant: - Pollutant Description: -	Water Impact: - Land Impact: - Air Impact: -
K	221m NE	Incident Date: 25/04/2001 Incident Identification: 3382 Pollutant: Oils and Fuel Pollutant Description: Other Oil or Fuel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
K	221m NE	Incident Date: 25/04/2001 Incident Identification: 3382 Pollutant: Oils and Fuel Pollutant Description: Other Oil or Fuel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	241m N	Incident Date: 25/03/2011 Incident Identification: 869507 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	246m W	Incident Date: 19/01/2015 Incident Identification: 1307517 Pollutant: - Pollutant Description: -	Water Impact: - Land Impact: - Air Impact: -



ID	Location	Details	
J	249m W	Incident Date: 02/04/2011 Incident Identification: 872028 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m	0
----------------------------	----------

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m	0
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The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m	0
----------------------------	----------

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

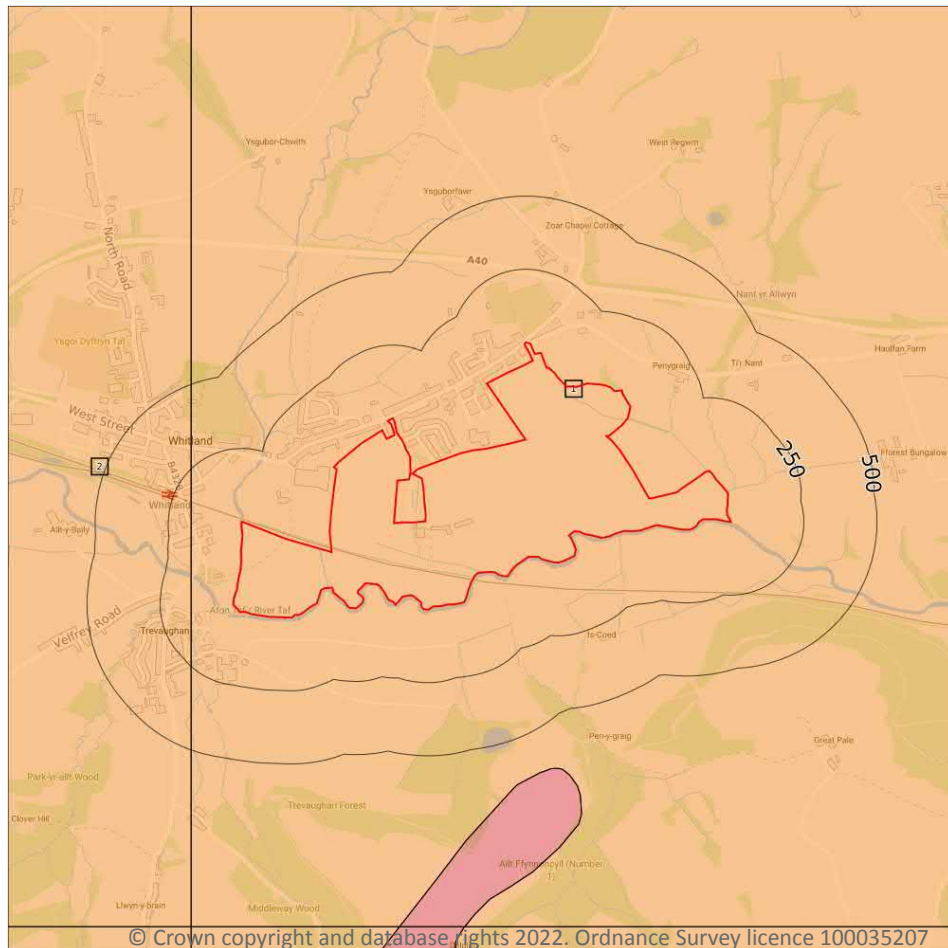
This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

ID	Location	Designation	Description
3	187m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	280m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



- Site Outline**
- Search buffers in metres (m)**
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 50**

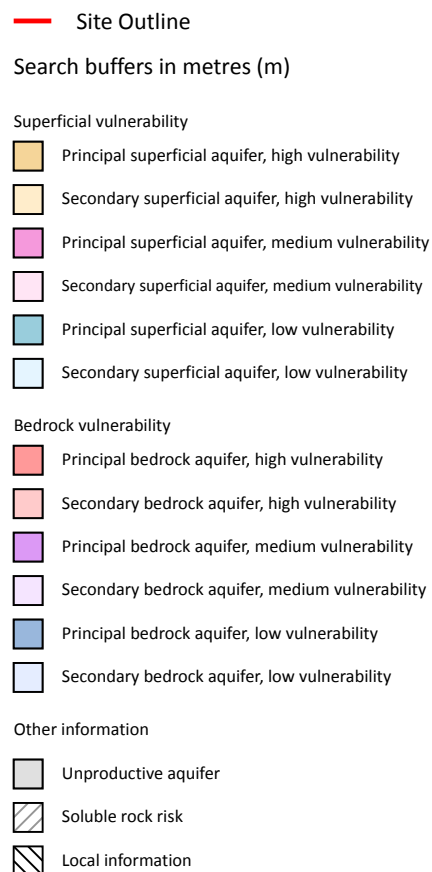
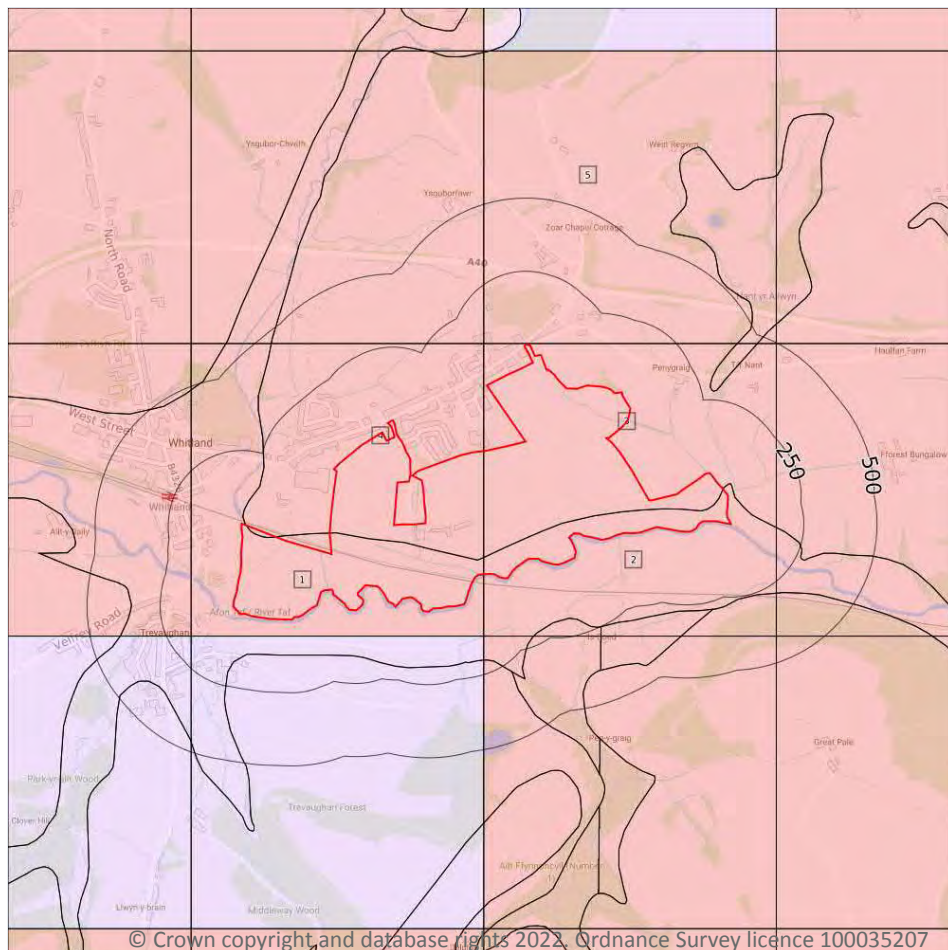
ID	Location	Designation	Description
1	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
2	144m W	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers



This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

5

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 52**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
5	3m N	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.



5.5 Groundwater vulnerability- local information

Records on site

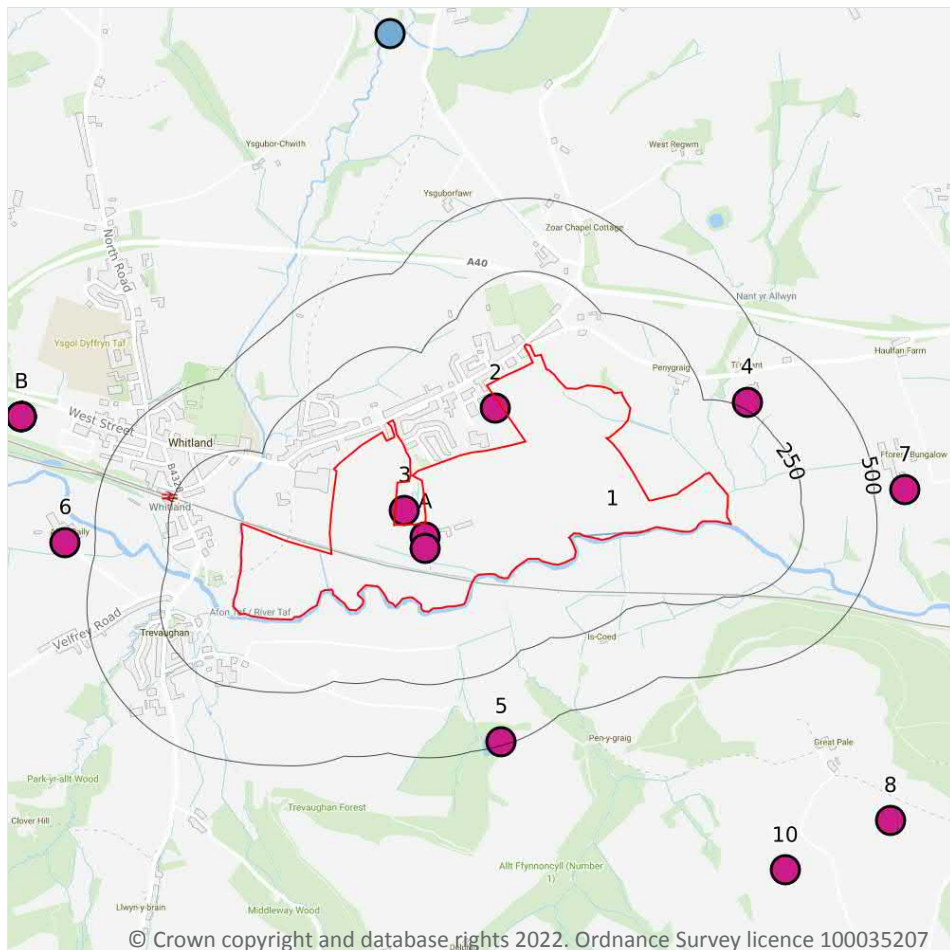
0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.



Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

24

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 55**

ID	Location	Details	
A	On site	Status: Historical Licence No: 22/60/4/0008 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL IN ENCLOSURE NO. 854 AT TYNEWYDD Data Type: Point Name: Thomas Easting: 220800 Northing: 216340	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 30/12/1965 Version End Date: -
A	On site	Status: Historical Licence No: 22/60/4/0076 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL AT TYNEWYDD Data Type: Point Name: George Easting: 220800 Northing: 216300	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 30/03/1966 Version End Date: -
2	19m SW	Status: Historical Licence No: 22/60/4/0064 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL IN ENCLOSURE 829 NEAR BRYNGLAS Data Type: Point Name: Thomas Easting: 221040 Northing: 216780	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 28/02/1966 Version End Date: -
3	32m E	Status: Historical Licence No: 22/60/4/0008 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL IN ENCLOSURE 856 AT TYNEWYDD Data Type: Point Name: Thomas Easting: 220730 Northing: 216430	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 30/12/1965 Version End Date: -
4	274m NE	Status: Historical Licence No: 22/60/4/0051 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL AT PENYBANC, WHITLAND Data Type: Point Name: Richards Easting: 221900 Northing: 216800	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 22/06/1992 Version End Date: -



ID	Location	Details	
5	486m S	Status: Active Licence No: 22/60/4/0099 Details: Unknown (Impounding) - Direct Source: - Point: - Data Type: Point Name: - Easting: 221060 Northing: 215640	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Dec 13 1995 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
6	601m W	Status: Historical Licence No: 22/60/4/0066 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL IN ENCLOSURE NO. 1494 AT ALLT-Y-BAILEY Data Type: Point Name: Haycocks Easting: 219570 Northing: 216320	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 30/03/1966 Version End Date: -
7	605m E	Status: Historical Licence No: 22/60/4/0078 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL IN FIELD NO. OS 737 AT FFOREST FARM Data Type: Point Name: Windsor Easting: 222440 Northing: 216500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 16/07/1985 Version End Date: -
B	837m NW	Status: Historical Licence No: 22/60/4/0100 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: EAW Groundwater Point: U/G STRATA SHALE MUDSTONE & GRIT Data Type: Point Name: Whitland Mart Ltd Easting: 219420 Northing: 216750	Annual Volume (m ³): 25550 Max Daily Volume (m ³): 70 Original Application No: - Original Start Date: 30/09/1996 Expiry Date: - Issue No: 101 Version Start Date: 23/07/2013 Version End Date: -
B	837m NW	Status: Historical Licence No: 22/60/4/0100 Details: Animal Watering & General Use In Non Farming Situations Direct Source: EAW Groundwater Point: U/G STRATA SHALE MUDSTONE & GRIT Data Type: Point Name: Whitland Mart Ltd Easting: 219420 Northing: 216750	Annual Volume (m ³): 25550 Max Daily Volume (m ³): 70 Original Application No: - Original Start Date: 30/09/1996 Expiry Date: - Issue No: 101 Version Start Date: 23/07/2013 Version End Date: -



ID	Location	Details	
B	837m NW	Status: Active Licence No: 22/60/4/0100 Details: Animal Watering & General use in non-farming situations - Medium Direct Source: Shale, mudstone and grit Point: - Data Type: Point Name: - Easting: 219420 Northing: 216750	Annual Volume (m ³): 22,190 Max Daily Volume (m ³): 90 Original Application No: - Original Start Date: Apr 28 2017 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
B	837m NW	Status: Active Licence No: 22/60/4/0100 Details: Animal Watering & General use in non-farming situations - Medium Direct Source: Shale, mudstone and grit Point: - Data Type: Point Name: - Easting: 219420 Northing: 216750	Annual Volume (m ³): 3,360 Max Daily Volume (m ³): 120 Original Application No: - Original Start Date: Apr 28 2017 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
8	1150m SE	Status: Historical Licence No: 22/60/4/0042 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL IN ENCLOSURE 864 AT GREAT PALE FARM Data Type: Point Name: James Easting: 222390 Northing: 215370	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 31/01/1966 Version End Date: -
10	1197m S	Status: Historical Licence No: 22/60/4/0042 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL IN ENCLOSURE 868 AT GREAT PALE FARM Data Type: Point Name: James Easting: 222030 Northing: 215200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 31/01/1966 Version End Date: -
-	1245m E	Status: Historical Licence No: 22/60/4/0036 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL IN ENCLOSURE 743 AT PANTYGWENIN Data Type: Point Name: Bowen Easting: 223090 Northing: 216390	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 31/01/1966 Version End Date: -



ID	Location	Details	
-	1290m E	Status: Historical Licence No: 22/60/4/0057 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: SPRING AT MOOR FARM Data Type: Point Name: Phillips Easting: 223080 Northing: 216820	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 09/06/1992 Version End Date: -
-	1298m E	Status: Historical Licence No: 22/60/4/0036 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL ON FARM YARD AT PANTYGWENIN Data Type: Point Name: Bowen Easting: 223140 Northing: 216470	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 31/01/1966 Version End Date: -
-	1645m NW	Status: Historical Licence No: 22/60/4/0038 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL IN FIELD NO. 562 AT HENGLOS, WHITLAND Data Type: Point Name: Evans Easting: 218750 Northing: 217210	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 08/06/1992 Version End Date: -
-	1758m E	Status: Historical Licence No: 22/60/4/0054 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: SPRING ON FORESTRY COMMISSION LAND ADJ. TO DOLERWYDD Data Type: Point Name: Thomas Easting: 223540 Northing: 215920	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 08/06/1992 Version End Date: -
-	1840m SE	Status: Historical Licence No: 22/60/4/0003 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: THREE WEL AT LITTLE PALE FARM Data Type: Point Name: Thomas Easting: 223400 Northing: 215400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 30/12/1965 Version End Date: -



ID	Location	Details	
-	1843m W	Status: Historical Licence No: 22/60/4/0035 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL IN ENCLOSURE 1402 AT GORSE FARM, WHITLAND Data Type: Point Name: Barnard Easting: 218350 Northing: 215680	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 05/04/2001 Version End Date: -
-	1926m S	Status: Historical Licence No: 22/60/4/0020 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL IN ENCLOSURE 456 AT CRINGA MAWR Data Type: Point Name: Werrett Easting: 220370 Northing: 214130	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 31/01/1966 Version End Date: -
-	1927m S	Status: Historical Licence No: 22/60/4/0020 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: SPRING IN ENCLOSURE 458 AT CRINGA MAWR Data Type: Point Name: Werrett Easting: 220400 Northing: 214130	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 31/01/1966 Version End Date: -
-	1965m SE	Status: Historical Licence No: 22/60/4/0021 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: SPRING AT BRUNANT FARM Data Type: Point Name: Ebsworth Easting: 221700 Northing: 214300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 31/01/1966 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m

5

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.



Features are displayed on the Abstractions and Source Protection Zones map on **page 55**

ID	Location	Details	
1	On site	Status: Historical Licence No: 22/60/4/0079 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: RIVER TAF Data Type: Line Name: Garnon Easting: 221310 Northing: 216340	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 01/04/2001 Version End Date: -
9	1160m NW	Status: Active Licence No: 22/60/4/0094 Details: Unknown (Impounding) - Direct Source: - Point: - Data Type: Point Name: - Easting: 220680 Northing: 218060	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Mar 4 1991 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1224m N	Status: Historical Licence No: 22/60/4/0091 Details: Lake & Pond Throughflow Direct Source: EAW Surface Water Point: AFON GRONW TO SUPPLY AMENITY POND Data Type: Point Name: Hill Easting: 221080 Northing: 218220	Annual Volume (m ³): 165929 Max Daily Volume (m ³): 454.6 Original Application No: - Original Start Date: 03/03/1989 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2007 Version End Date: -
-	1224m N	Status: Active Licence No: 22/60/4/0091 Details: Lake & Pond Throughflow - Very Low Direct Source: - Point: - Data Type: Point Name: - Easting: 221080 Northing: 218220	Annual Volume (m ³): 165,929 Max Daily Volume (m ³): - Original Application No: - Original Start Date: Apr 1 2007 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1257m N	Status: Historical Licence No: 22/60/4/0091 Details: Lake & Pond Throughflow Direct Source: EAW Surface Water Point: AFON GRONW TO SUPPLY AMENITY POND Data Type: Point Name: Hill Easting: 221040 Northing: 218250	Annual Volume (m ³): 165929 Max Daily Volume (m ³): 454.6 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 03/03/1989 Version End Date: -



This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m

0

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

Records within 500m

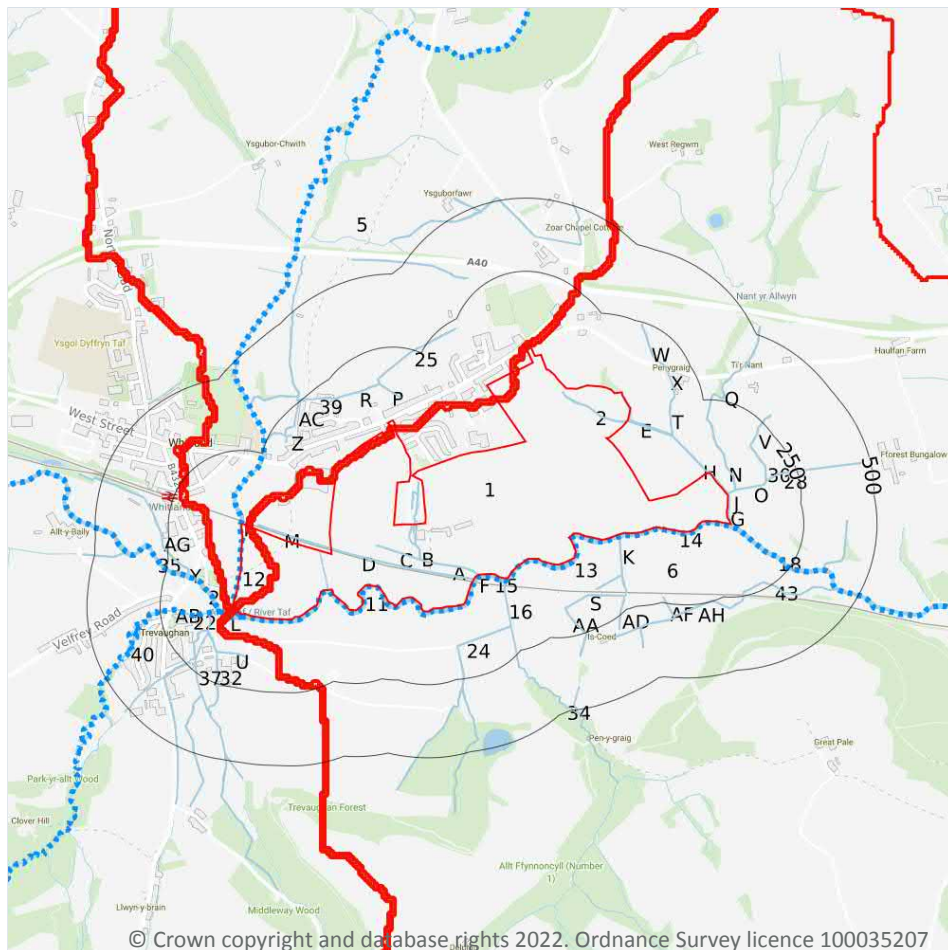
0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

110

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 63**

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Taf
12	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Gronw



ID	Location	Type of water feature	Ground level	Permanence	Name
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	1m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	1m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
13	2m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Taf
G	2m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant yr Allwyn
I	3m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Gronw
14	4m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Taf
J	4m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant yr Allwyn
15	5m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Taf
F	6m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Taf
B	6m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	7m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
16	8m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
B	8m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	9m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	9m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Taf
18	10m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Taf
I	11m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Gronw
B	13m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	16m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	19m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	19m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	23m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	30m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	31m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
N	31m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant yr Allwyn



ID	Location	Type of water feature	Ground level	Permanence	Name
O	31m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	35m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
21	50m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Taf
L	50m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Cwm-waun-gron
I	75m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Gronw
I	75m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	81m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
22	84m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Cwm-waun-gron
L	84m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Coile
K	93m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Q	98m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Nant yr Allwyn
K	98m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	108m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Gronw



ID	Location	Type of water feature	Ground level	Permanence	Name
I	108m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	120m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	120m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	120m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Afon Coile
L	122m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Coile
24	126m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	130m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	131m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
25	132m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	132m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	134m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	135m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	135m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
28	139m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
30	139m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
32	151m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
T	151m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
T	157m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	158m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	159m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	160m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	161m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	161m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	164m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
34	165m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
35	166m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Taf



ID	Location	Type of water feature	Ground level	Permanence	Name
Y	166m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	167m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Afon Coile
37	170m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Coile
K	178m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
39	183m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	183m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	184m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Z	186m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	187m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	196m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	200m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	203m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	203m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
AB	203m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	203m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	204m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
40	207m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Cwm-waun-gron
K	208m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AC	208m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	209m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	210m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Gronw
Z	210m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Gronw
AD	214m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
43	227m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	227m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	230m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
Y	232m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AG	236m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	244m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Gronw
Z	244m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	247m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	52
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Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 63**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	2
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The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 63**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
5	On site	River WB catchment	Gronw - headwaters to confluence with Taf	GB110060029360	Taf	Carmarthen Bay and the Gower
6	On site	River WB catchment	Taf -Gronw to estuary	GB110060036284	Taf	Carmarthen Bay and the Gower

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	2
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Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site.

Features are displayed on the Hydrology map on **page 63**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
3	On site	River	Taf -Gronw to estuary	GB110060036284	Moderate	Fail	Good	2016
4	On site	River	Gronw - headwaters to confluence with Taf	GB110060029360	Good	Good	Good	2016

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	1
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Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

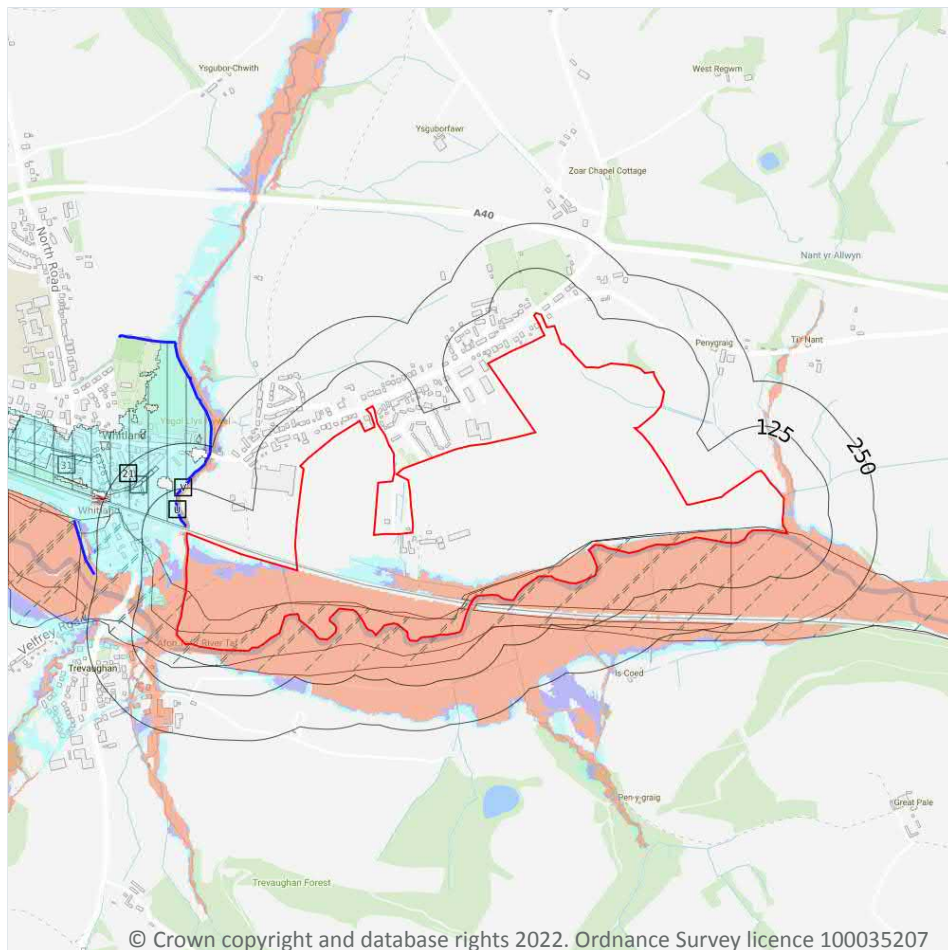
Features are displayed on the Hydrology map on **page 63**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Tywi, Taf and Gwendraeths	GB41002G200500	Poor	Poor	Good	2017

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding



— Site Outline
Search buffers in metres (m)

River and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

304

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on **page 74**

Distance	Flood risk category
On site	High
0 - 50m	High

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	4
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Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

Features are displayed on the River and coastal flooding map on **page 74**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
A	On site	Whitland March 1981	1981-03-11 1981-03-11	Main river	Channel capacity exceeded (no raised defences)	Fluvial
F	On site	Whitland December 1979	1979-12-27 1979-12-27	Main river	Channel capacity exceeded (no raised defences)	Fluvial
27	161m NW	Whitland December 1979	1979-12-27 1979-12-27	Main river	Channel capacity exceeded (no raised defences)	Fluvial
31	187m NW	Whitland March 1981	1981-03-11 1981-03-11	Main river	Channel capacity exceeded (no raised defences)	Fluvial

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	6
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Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

Features are displayed on the River and coastal flooding map on **page 74**

ID	Location	Update
L	19m N	29/11/2021



ID	Location	Update
U	51m NW	29/11/2021
V	111m N	29/11/2021
V	148m N	29/11/2021
V	199m N	29/11/2021
V	237m N	29/11/2021

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m

3

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 74**

ID	Location	
L	16m N	Area benefiting from flood defences
21	18m NW	Area benefiting from flood defences
AP	241m W	Area benefiting from flood defences

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

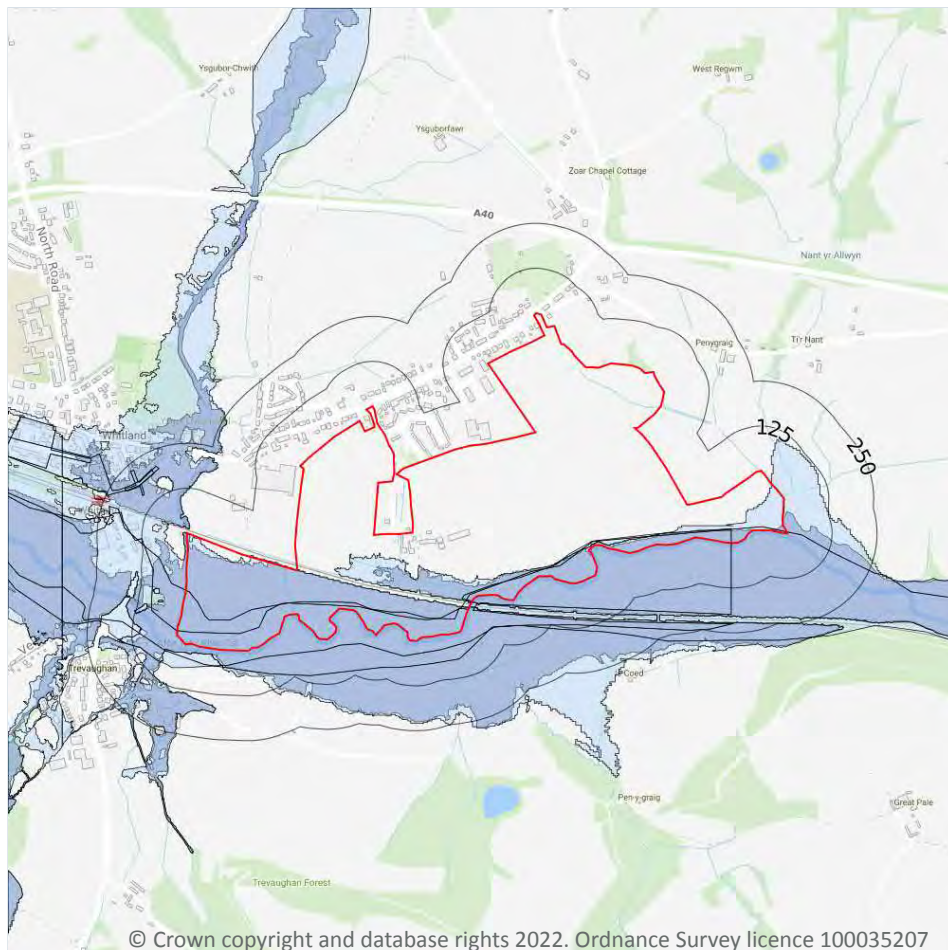
0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on **page 74**

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

This data is sourced from the Environment Agency and Natural Resources Wales.



7.7 Flood Zone 3

Records within 50m

1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

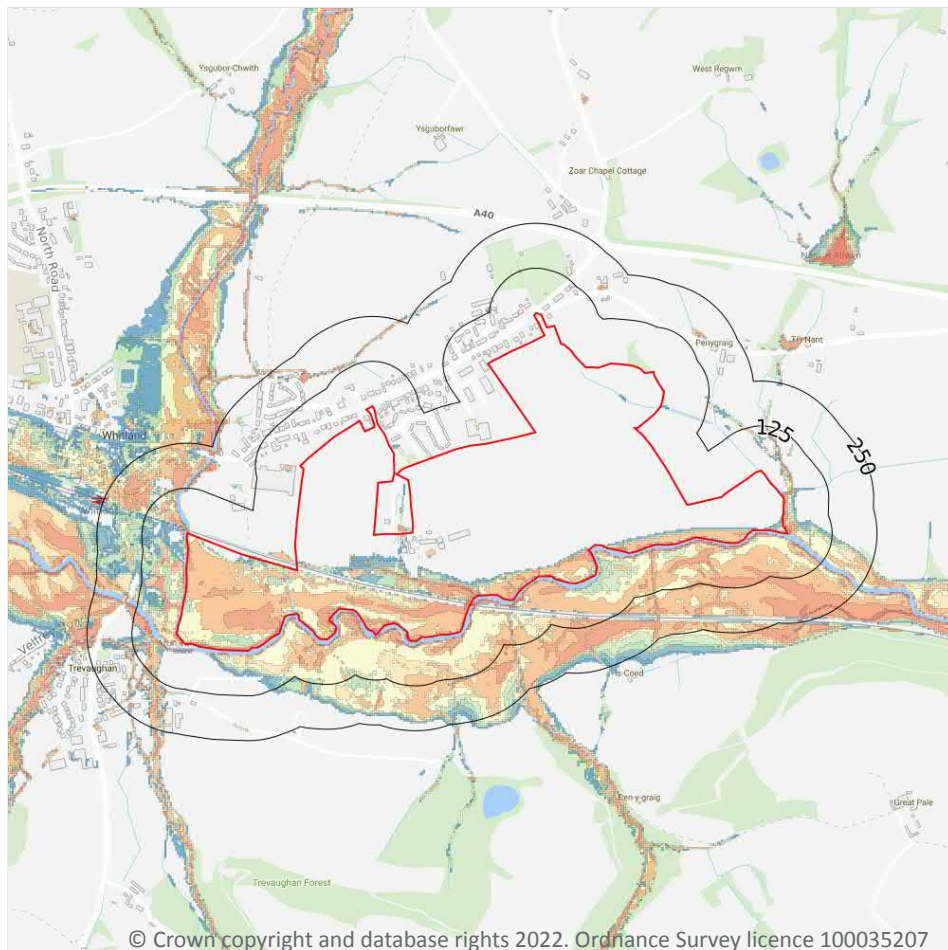
Features are displayed on the River and coastal flooding map on **page 74**

Location	Type
On site	Zone 3 - (Fluvial Models)

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 79**

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

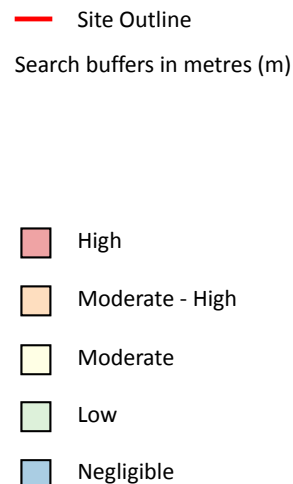
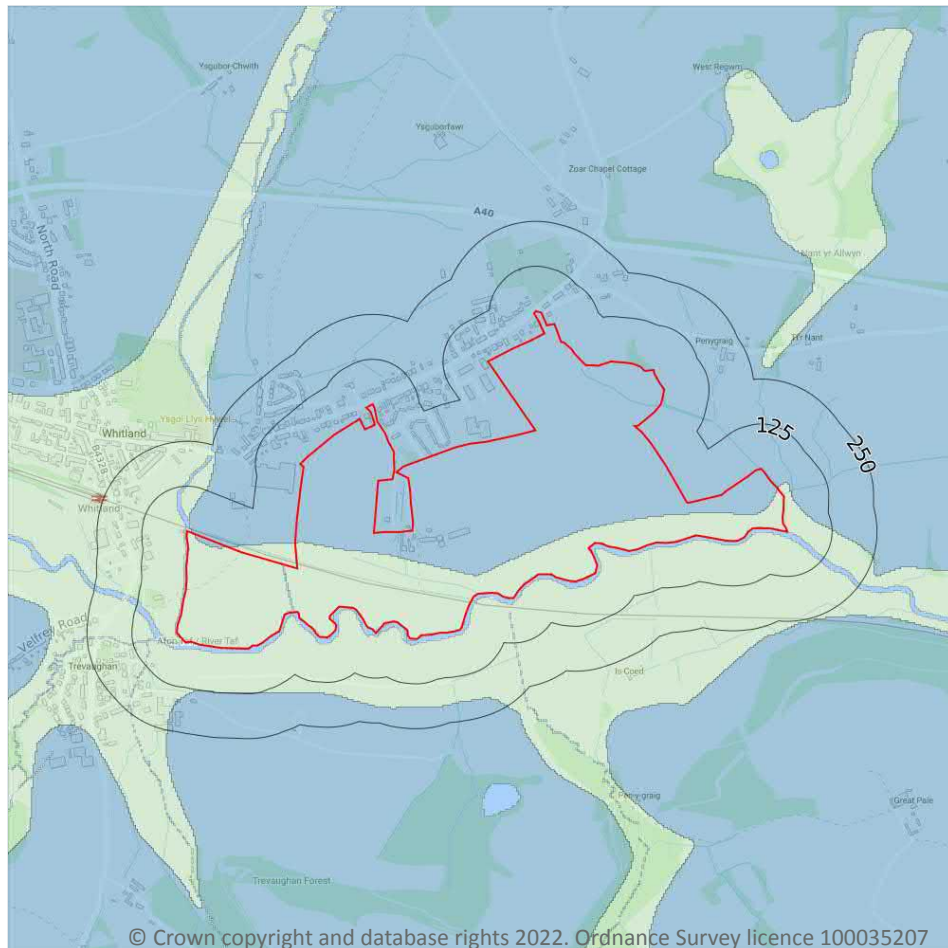
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

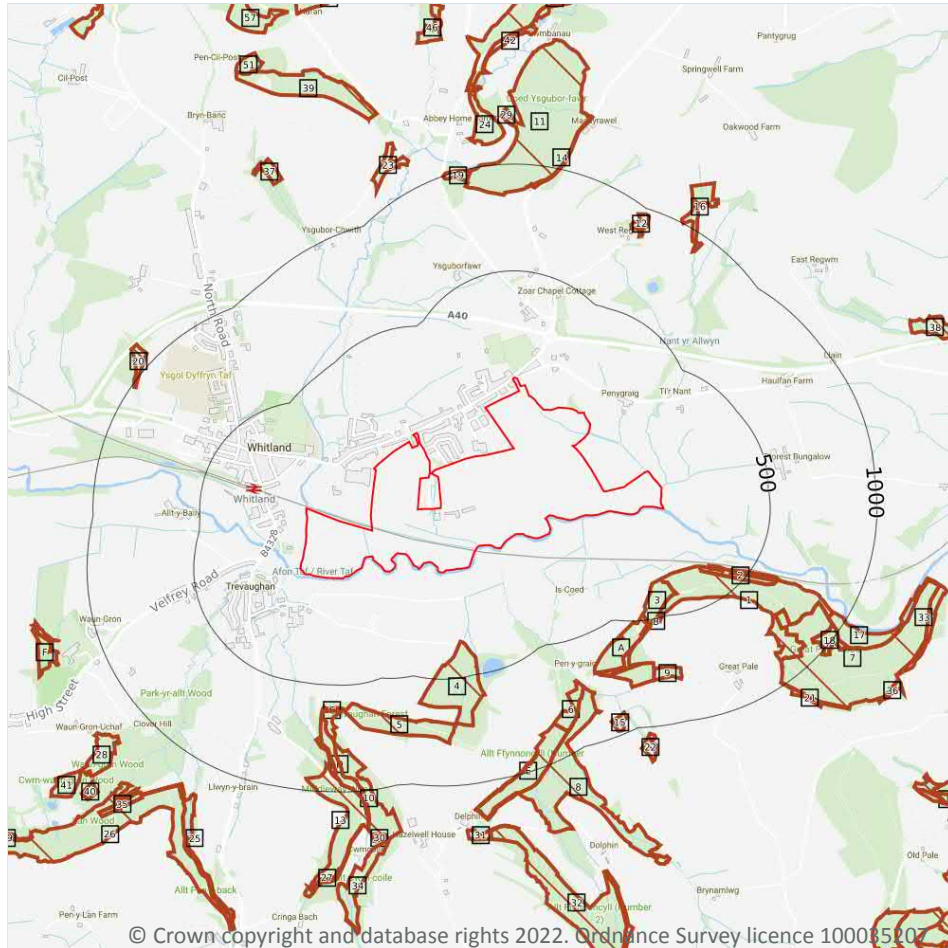
Low

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 81**

This data is sourced from Ambient Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

1

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 82**

ID	Location	Name	Data source
-	1985m E	PONT Y FENNI QUARRY AND ROAD CUTTING	Natural Resources Wales



This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m

0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m

0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m

0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m

82

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 82**

ID	Location	Name	Woodland Type
1	301m S	Unknown	Ancient Semi Natural Woodland
2	320m SE	Unknown	Ancient Semi Natural Woodland
3	328m S	Unknown	Plantation on Ancient Woodland Site
4	333m S	Unknown	Ancient Semi Natural Woodland
A	472m S	Unknown	Ancient Semi Natural Woodland
B	499m S	Unknown	Ancient Semi Natural Woodland
B	520m S	Unknown	Ancient Semi Natural Woodland
5	587m S	Unknown	Restored Ancient Woodland Site
C	605m S	Unknown	Plantation on Ancient Woodland Site
A	605m S	Unknown	Plantation on Ancient Woodland Site
C	619m S	Unknown	Plantation on Ancient Woodland Site
D	664m S	Unknown	Restored Ancient Woodland Site
6	691m S	Unknown	Ancient Semi Natural Woodland
A	701m S	Unknown	Plantation on Ancient Woodland Site
7	722m SE	Unknown	Plantation on Ancient Woodland Site
8	728m S	Unknown	Ancient Semi Natural Woodland



ID	Location	Name	Woodland Type
9	729m S	Unknown	Restored Ancient Woodland Site
D	745m S	Unknown	Restored Ancient Woodland Site
10	770m S	Unknown	Plantation on Ancient Woodland Site
E	835m SE	Unknown	Ancient Semi Natural Woodland
11	856m N	Unknown	Restored Ancient Woodland Site
12	865m N	Unknown	Ancient Semi Natural Woodland
13	879m S	Unknown	Ancient Semi Natural Woodland
14	896m N	Unknown	Restored Ancient Woodland Site
15	908m SE	Unknown	Ancient Semi Natural Woodland
16	910m NE	Unknown	Restored Ancient Woodland Site
E	917m S	Unknown	Ancient Semi Natural Woodland
17	926m SE	Unknown	Ancient Semi Natural Woodland
18	928m SE	Unknown	Ancient Semi Natural Woodland
19	943m N	Unknown	Restored Ancient Woodland Site
20	981m NW	Unknown	Restored Ancient Woodland Site
21	983m SE	Unknown	Plantation on Ancient Woodland Site
22	1030m S	Unknown	Ancient Semi Natural Woodland
23	1086m NW	Unknown	Restored Ancient Woodland Site
24	1100m N	Unknown	Restored Ancient Woodland Site
25	1139m SW	Unknown	Ancient Semi Natural Woodland
26	1151m SW	Unknown	Ancient Semi Natural Woodland
27	1159m S	Unknown	Ancient Semi Natural Woodland
28	1161m SW	Unknown	Ancient Semi Natural Woodland
F	1201m W	Unknown	Ancient Semi Natural Woodland
29	1205m N	Unknown	Restored Ancient Woodland Site
F	1206m W	Unknown	Ancient Woodland Site of Unknown Category
30	1208m S	Unknown	Restored Ancient Woodland Site
31	1212m S	Unknown	Ancient Semi Natural Woodland

ID	Location	Name	Woodland Type
32	1219m S	Unknown	Ancient Semi Natural Woodland
33	1224m SE	Unknown	Plantation on Ancient Woodland Site
34	1248m S	Unknown	Ancient Semi Natural Woodland
35	1280m SW	Unknown	Ancient Semi Natural Woodland
36	1339m SE	Unknown	Plantation on Ancient Woodland Site
37	1343m NW	Unknown	Ancient Semi Natural Woodland
G	1354m N	Unknown	Ancient Semi Natural Woodland
38	1380m NE	Unknown	Ancient Semi Natural Woodland
39	1386m NW	Unknown	Ancient Semi Natural Woodland
40	1391m SW	Unknown	Ancient Semi Natural Woodland
41	1397m SW	Unknown	Ancient Semi Natural Woodland
42	1434m N	Unknown	Ancient Semi Natural Woodland
H	1491m SE	Unknown	Ancient Semi Natural Woodland
-	1559m E	Unknown	Ancient Semi Natural Woodland
H	1562m SE	Unknown	Ancient Semi Natural Woodland
44	1562m SE	Unknown	Ancient Semi Natural Woodland
-	1569m E	Unknown	Plantation on Ancient Woodland Site
-	1571m SE	Unknown	Ancient Semi Natural Woodland
46	1621m N	Unknown	Ancient Semi Natural Woodland
47	1678m N	Unknown	Ancient Semi Natural Woodland
I	1746m SE	Unknown	Ancient Semi Natural Woodland
-	1763m W	Unknown	Ancient Semi Natural Woodland
I	1771m SE	Unknown	Ancient Semi Natural Woodland
49	1775m SW	Unknown	Ancient Semi Natural Woodland
-	1777m E	Unknown	Ancient Semi Natural Woodland
J	1825m SE	Unknown	Plantation on Ancient Woodland Site
51	1857m NW	Unknown	Ancient Semi Natural Woodland
-	1875m N	Unknown	Restored Ancient Woodland Site

ID	Location	Name	Woodland Type
-	1879m S	Unknown	Restored Ancient Woodland Site
-	1889m E	Unknown	Restored Ancient Woodland Site
-	1913m SE	Unknown	Ancient Semi Natural Woodland
-	1916m SE	Unknown	Ancient Semi Natural Woodland
54	1917m N	Unknown	Ancient Semi Natural Woodland
-	1939m N	Unknown	Restored Ancient Woodland Site
-	1957m SE	Unknown	Ancient Semi Natural Woodland
-	1962m N	Unknown	Plantation on Ancient Woodland Site
-	1977m SE	Unknown	Ancient Woodland Site of Unknown Category
57	1993m NW	Unknown	Restored Ancient Woodland Site

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m**0**

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m**0**

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m**0**

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.



10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

0

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

This data is sourced from Natural England and Natural Resources Wales.

SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site	0
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Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

This data is sourced from Natural England.

10.18 SSSI Units

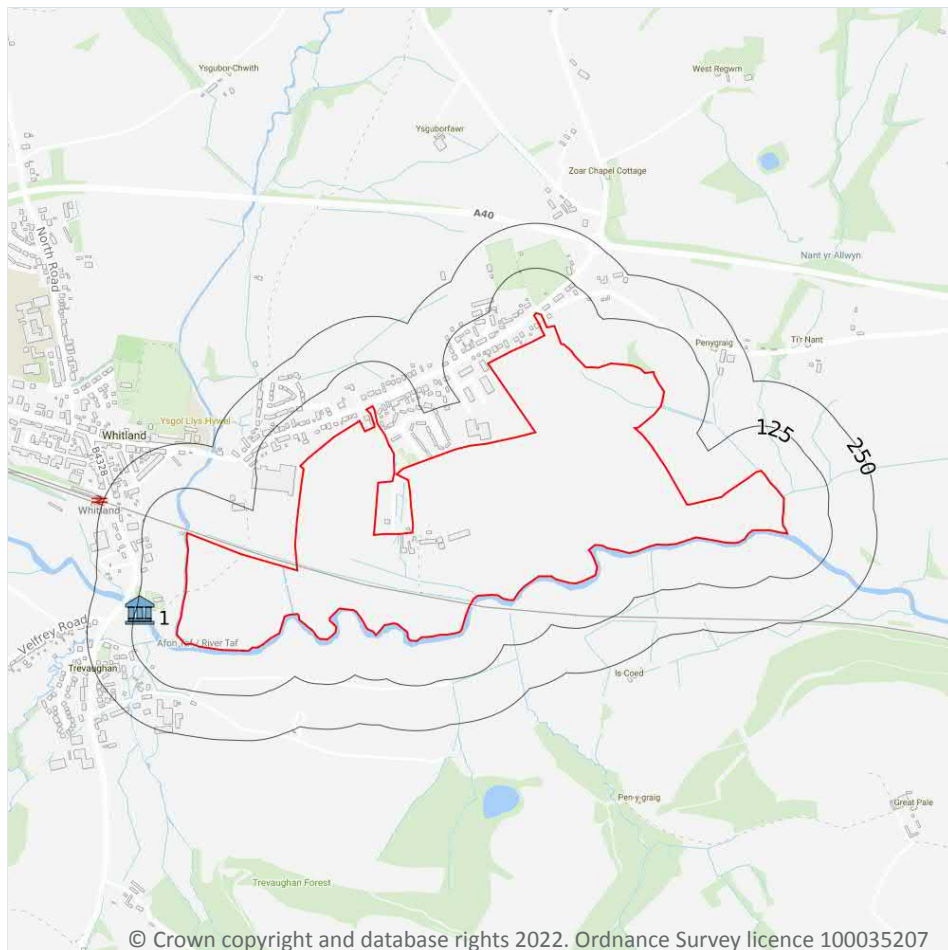
Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

1

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 91**

ID	Location	Name	Grade	Reference Number	Listed date
1	116m W	Trevaughan Bridge., Situated At End Of No-Through Road, Immediately SW Of St. Mary's Church	II	9416	30/11/1966

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m**0**

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m**0**

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

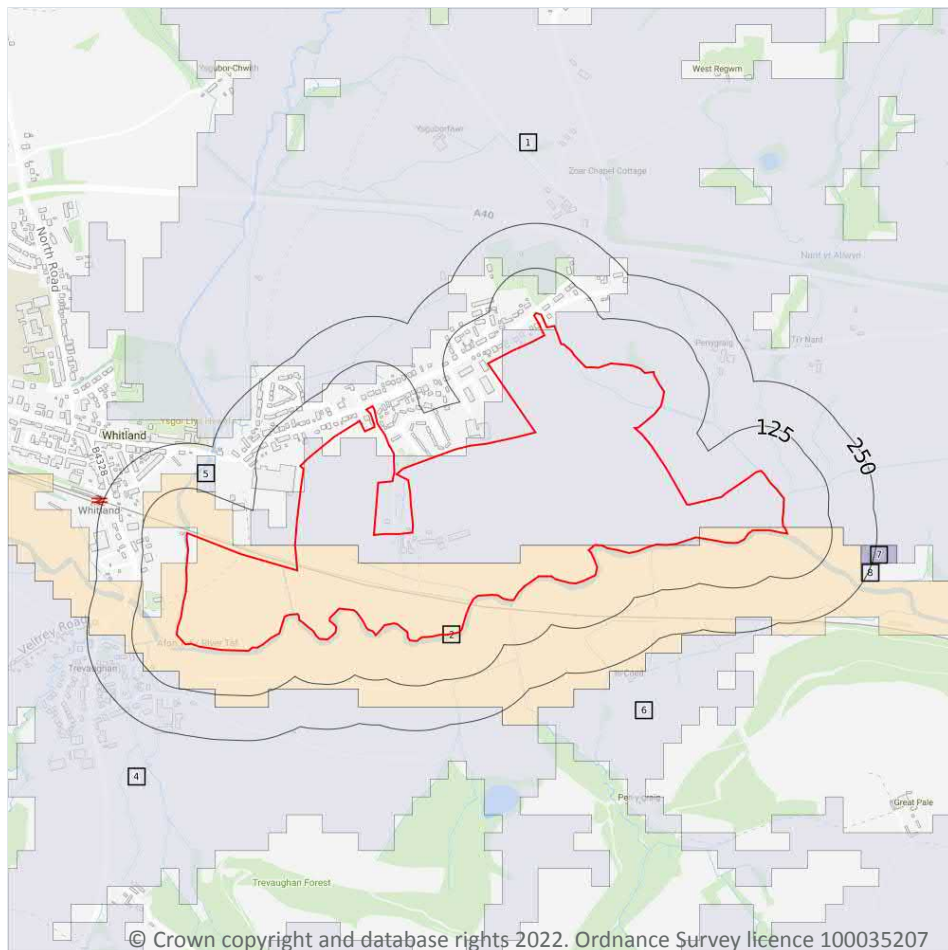
11.7 Registered Parks and Gardens

Records within 250m**0**

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Timber felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

7

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 94**

ID	Location	Classification	Description
1	On site	Grade 3b	Moderate quality agricultural land
2	On site	Grade 3a	Good to moderate quality agricultural land
4	77m S	Grade 3b	Moderate quality agricultural land

ID	Location	Classification	Description
5	119m N	Grade 3b	Moderate quality agricultural land
6	207m S	Grade 3b	Moderate quality agricultural land
7	209m E	Grade 4	Poor quality agricultural land
8	222m E	Grade 3b	Moderate quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m **0**

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m **0**

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m **0**

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.



12.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m

0

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

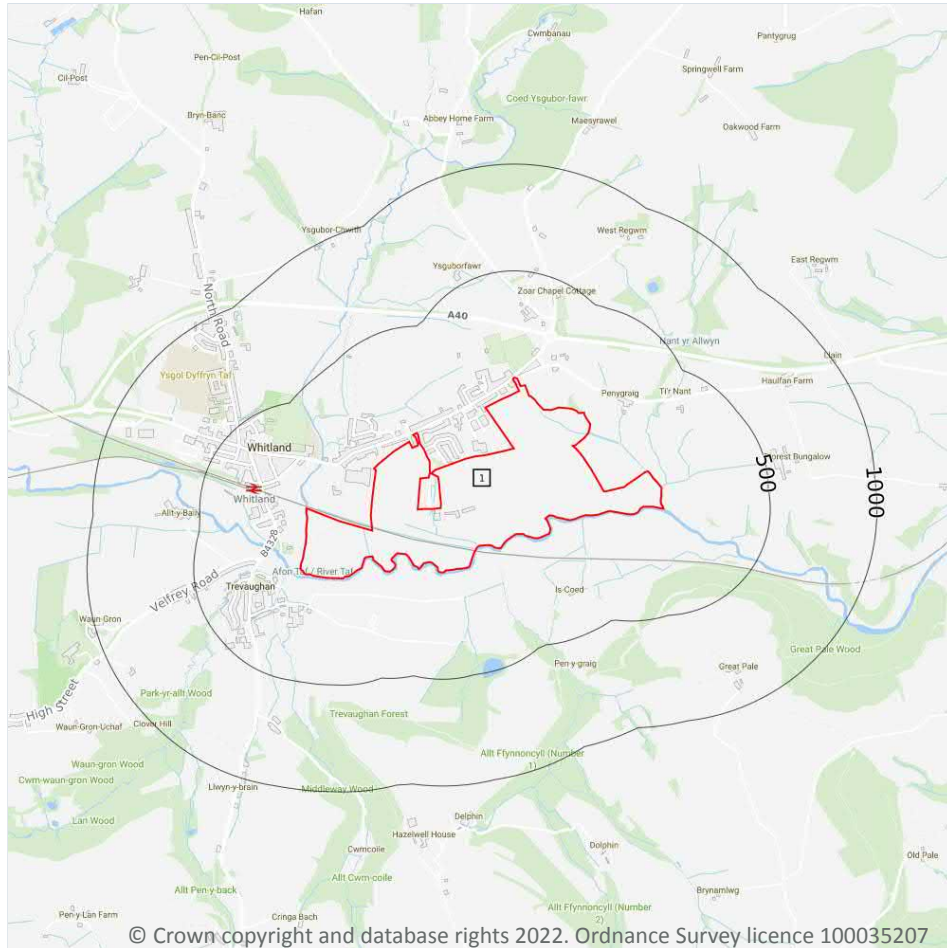
0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 98**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	No coverage	No coverage	No coverage	NoCov

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground

14.2 Artificial and made ground (10k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m

0

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

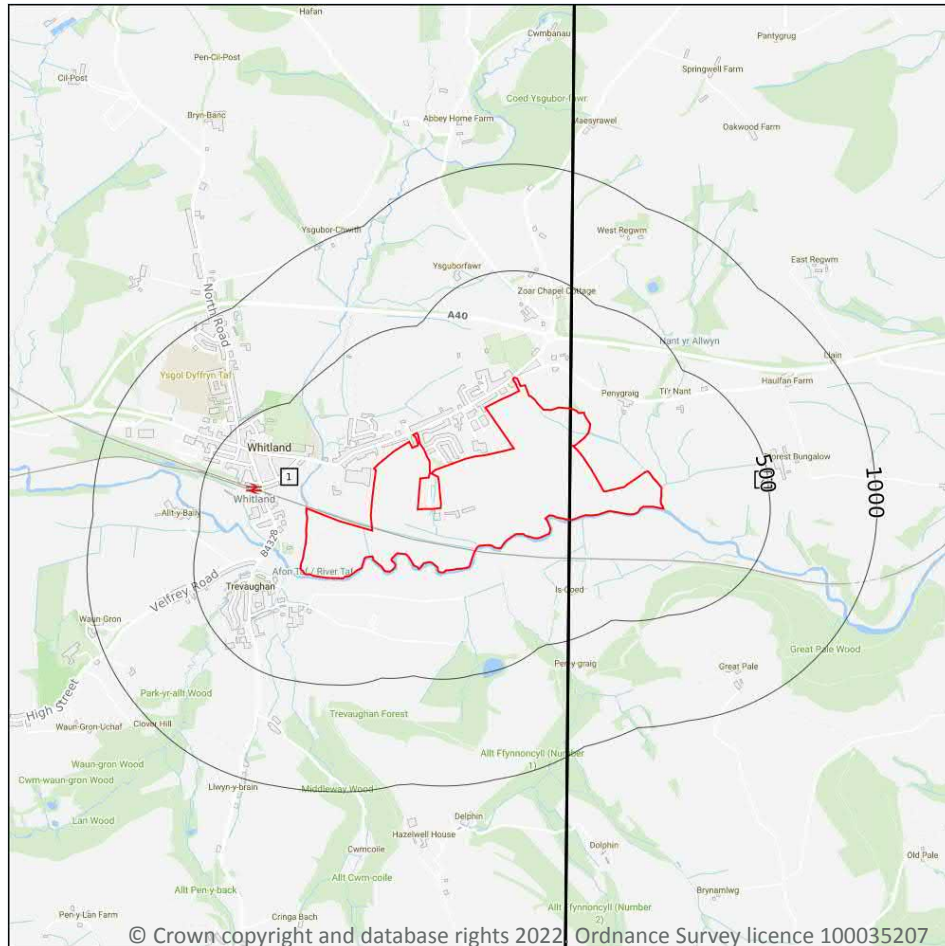
0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

☐ Geological map tile

15.1 50k Availability

Records within 500m

2

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme. Where 50k data is not available, this area has been filled in with 625k scale data.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 102**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW228_haverfordwest_v4
2	On site	Full	Full	Full	Full	EW229_carmarthen_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground

15.2 Artificial and made ground (50k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

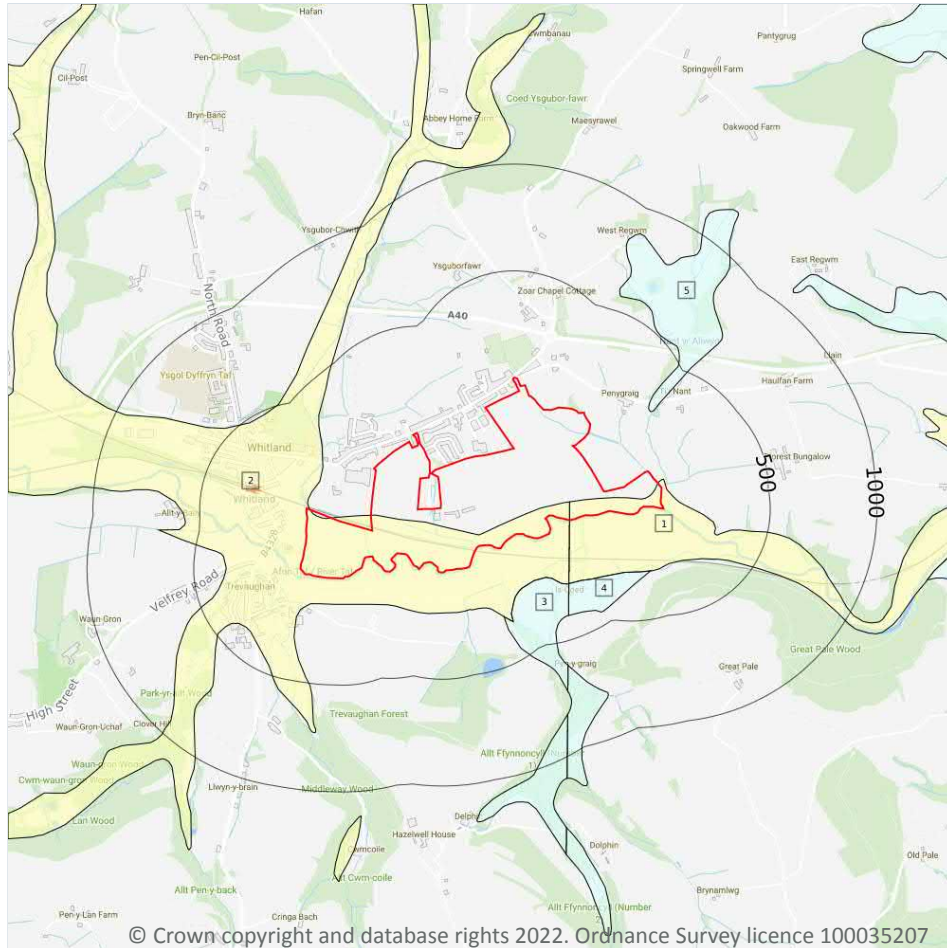
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

5

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 104**

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	187m S	TILL-DMTN	TILL	DIAMICTON
4	251m SE	TILL-DMTN	TILL	DIAMICTON

ID	Location	LEX Code	Description	Rock description
5	280m N	TILL-DMTN	TILL	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	1
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0
----------------------------	----------

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

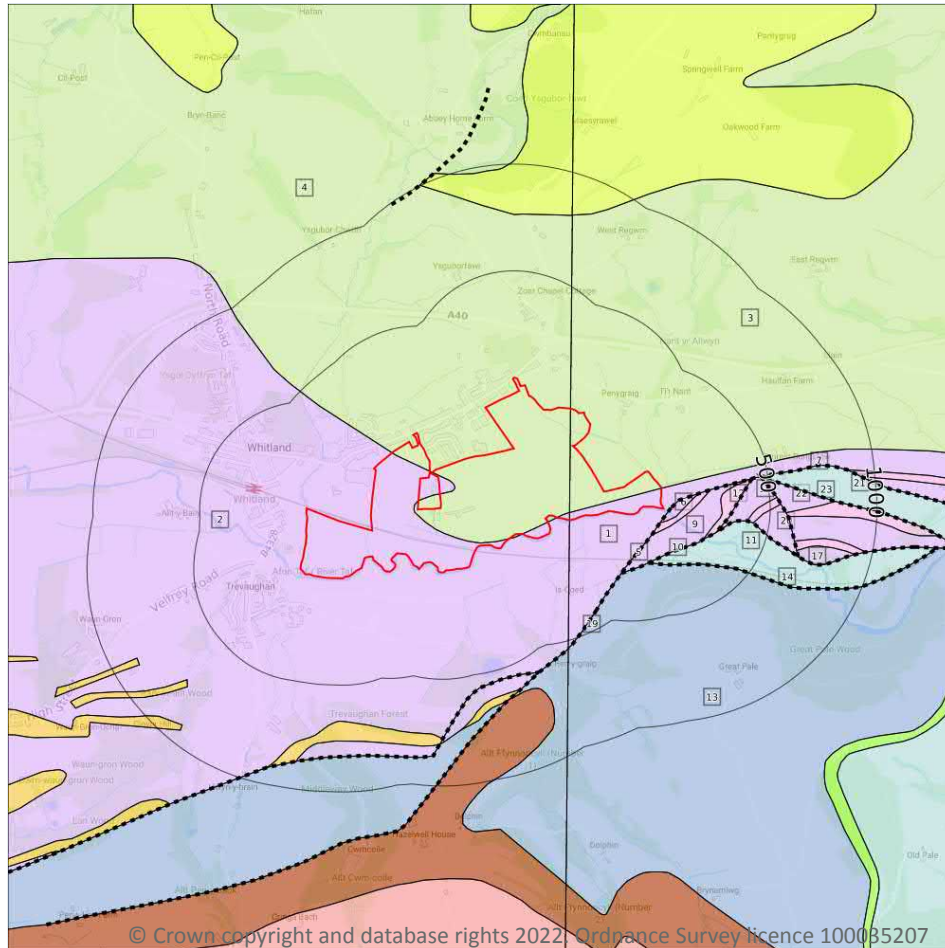
15.7 Landslip permeability (50k)

Records within 50m	0
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

15

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 106**

ID	Location	LEX Code	Description	Rock age
1	On site	DBB-MDST	DIDYMOGRAPTUS BIFIDUS BEDS - MUDSTONE	ABEREIDDIAN
2	On site	DBB-MDST	DIDYMOGRAPTUS BIFIDUS BEDS - MUDSTONE	ABEREIDDIAN
3	On site	TTRA-MDST	TETRAGRAPTUS BEDS - MUDSTONE	-
4	On site	TTRA-MDST	TETRAGRAPTUS BEDS - MUDSTONE	-



ID	Location	LEX Code	Description	Rock age
6	26m SE	DBB-MDST	DIDYMOGRAPTUS BIFIDUS BEDS - MUDSTONE	ABEREIDDIAN
8	59m SE	DBB-TFASST	DIDYMOGRAPTUS BIFIDUS BEDS - TUFFACEOUS-SANDSTONE	ABEREIDDIAN
9	85m SE	DBB-MDST	DIDYMOGRAPTUS BIFIDUS BEDS - MUDSTONE	ABEREIDDIAN
11	204m S	SLR-ARSD	SLADE AND REDHILL FORMATION - ARGILLACEOUS ROCKS AND [SUBEQUAL/SUBORDINATE] SANDSTONE, INTERBEDDED	-
12	235m SE	DBB-TFASST	DIDYMOGRAPTUS BIFIDUS BEDS - TUFFACEOUS-SANDSTONE	ABEREIDDIAN
13	238m S	PFHD-MDST	PORTFIELD FORMATION AND HAVERFORD MUDSTONE FORMATION (UNDIFFERENTIATED) - MUDSTONE	-
15	270m SE	DBB-MDST	DIDYMOGRAPTUS BIFIDUS BEDS - MUDSTONE	ABEREIDDIAN
18	396m E	DBB-TFASST	DIDYMOGRAPTUS BIFIDUS BEDS - TUFFACEOUS-SANDSTONE	ABEREIDDIAN
20	426m E	DBB-MDST	DIDYMOGRAPTUS BIFIDUS BEDS - MUDSTONE	ABEREIDDIAN
21	471m E	SLR-ARSD	SLADE AND REDHILL FORMATION - ARGILLACEOUS ROCKS AND [SUBEQUAL/SUBORDINATE] SANDSTONE, INTERBEDDED	-
22	471m E	DBB-MDST	DIDYMOGRAPTUS BIFIDUS BEDS - MUDSTONE	ABEREIDDIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Low	Low
On site	Fracture	Low	Low

This data is sourced from the British Geological Survey.



15.10 Bedrock faults and other linear features (50k)

Records within 500m

8

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

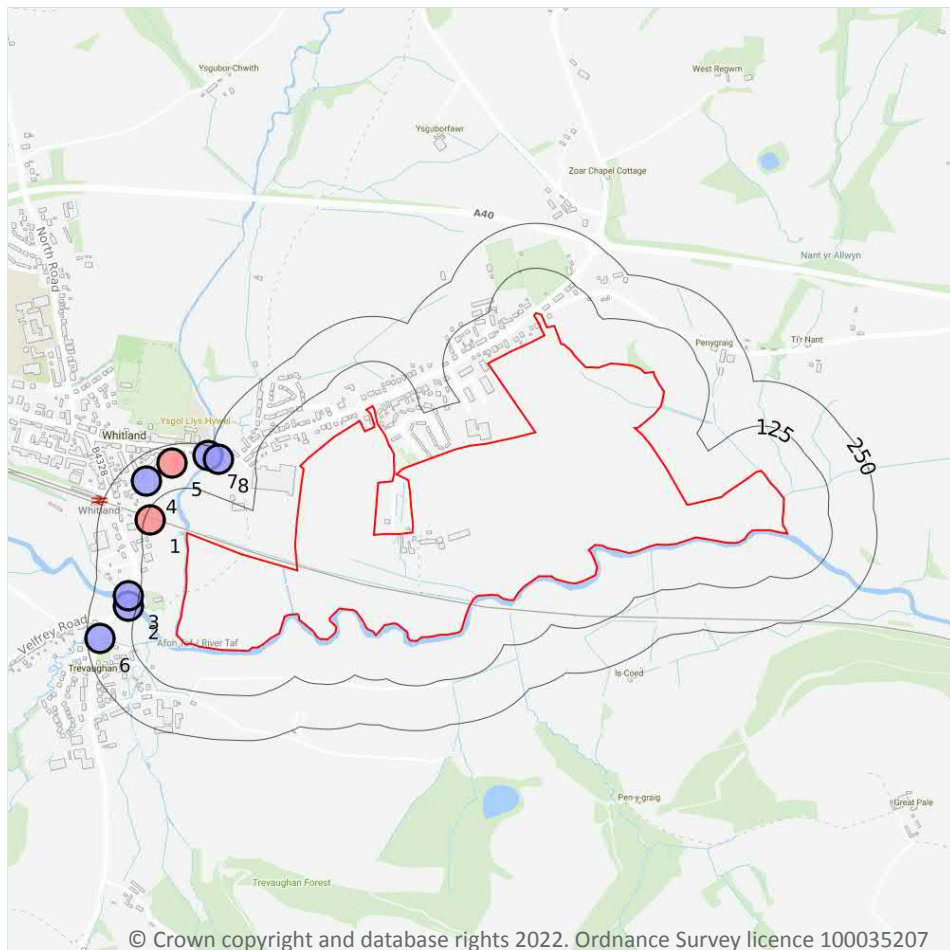
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 106**

ID	Location	Category	Description
5	26m SE	FAULT	Fault, inferred, displacement unknown
7	35m E	FAULT	Fault, observed, displacement unknown
10	204m S	FAULT	Fault, inferred, displacement unknown
14	238m S	FAULT	Fault, observed, displacement unknown
16	270m SE	FAULT	Fault, observed, displacement unknown
17	270m SE	FAULT	Fault, observed, displacement unknown
19	421m SE	FAULT	Fault, observed, displacement unknown
23	471m E	FAULT	Fault, observed, displacement unknown

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

8

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 109**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	109m W	220070 216420	WHITLAND	33.53	N	253589
2	148m W	220010 216180	TREVAUGHAN BRIDGE 1	6.15	N	253599
3	154m W	220010 216210	TREVAUGHAN BRIDGE 2	5.7	N	253600

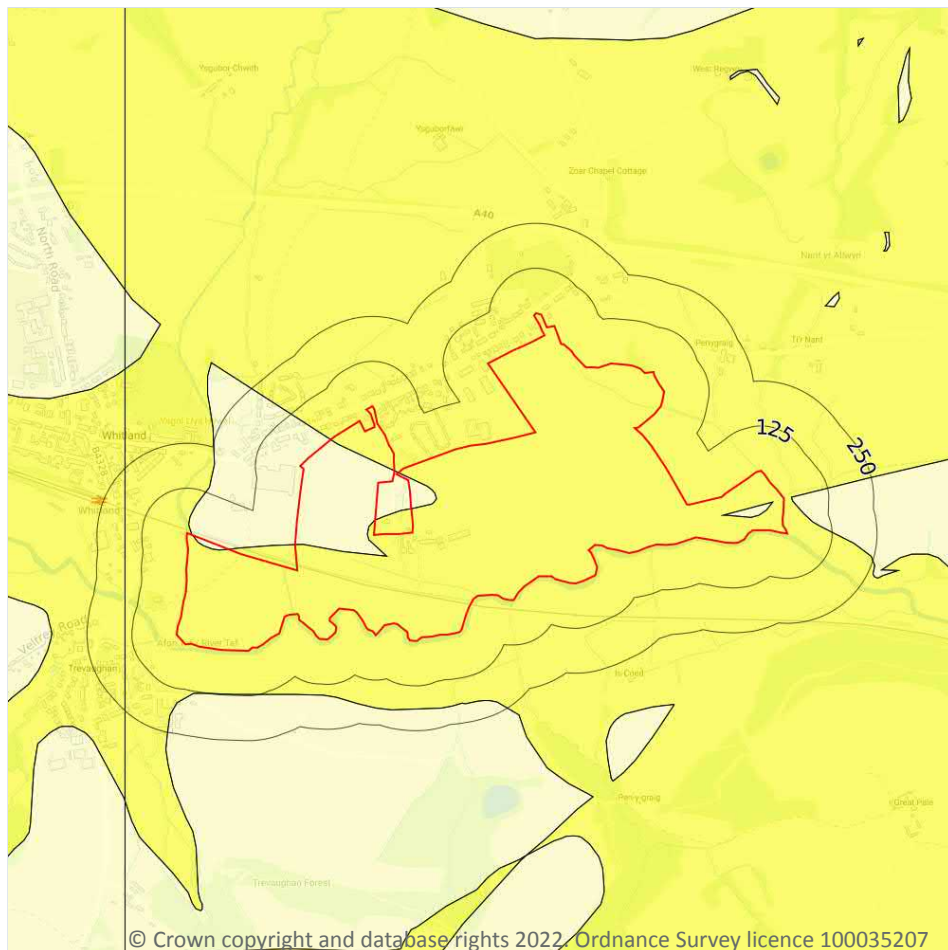


ID	Location	Grid reference	Name	Length	Confidential	Web link
4	184m NW	220060 216530	WHITLAND	-2.0	N	253603
5	200m N	220130 216580	WHITLAND	42.67	N	253602
6	214m W	219930 216090	TREVAUGHAN BRIDGE 4	5.22	N	253124
7	223m N	220230 216600	GROWN BRIDGE, WHITLAND (A40). 1	8.5	N	253587
8	223m N	220260 216590	GROWN BRIDGE, WHITLAND (A40). 2	7.5	N	253588

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

3

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

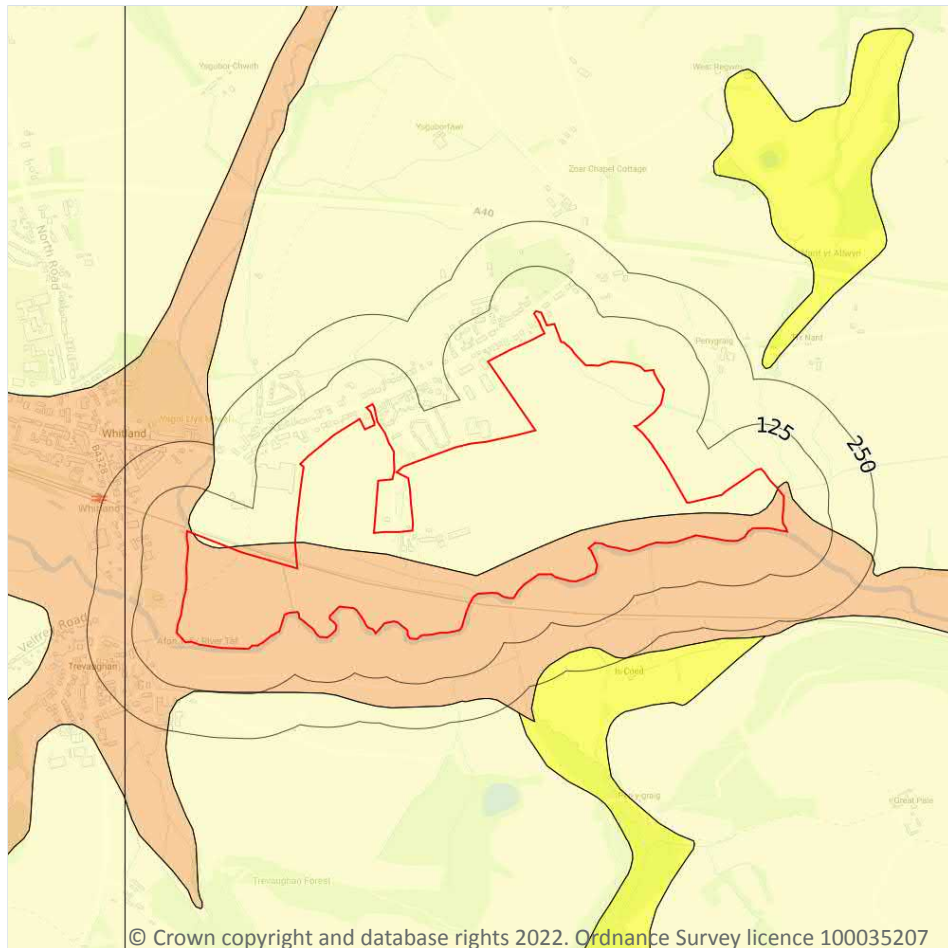
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 111**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
22m E	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.2 Running sands

Records within 50m

2

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 113**

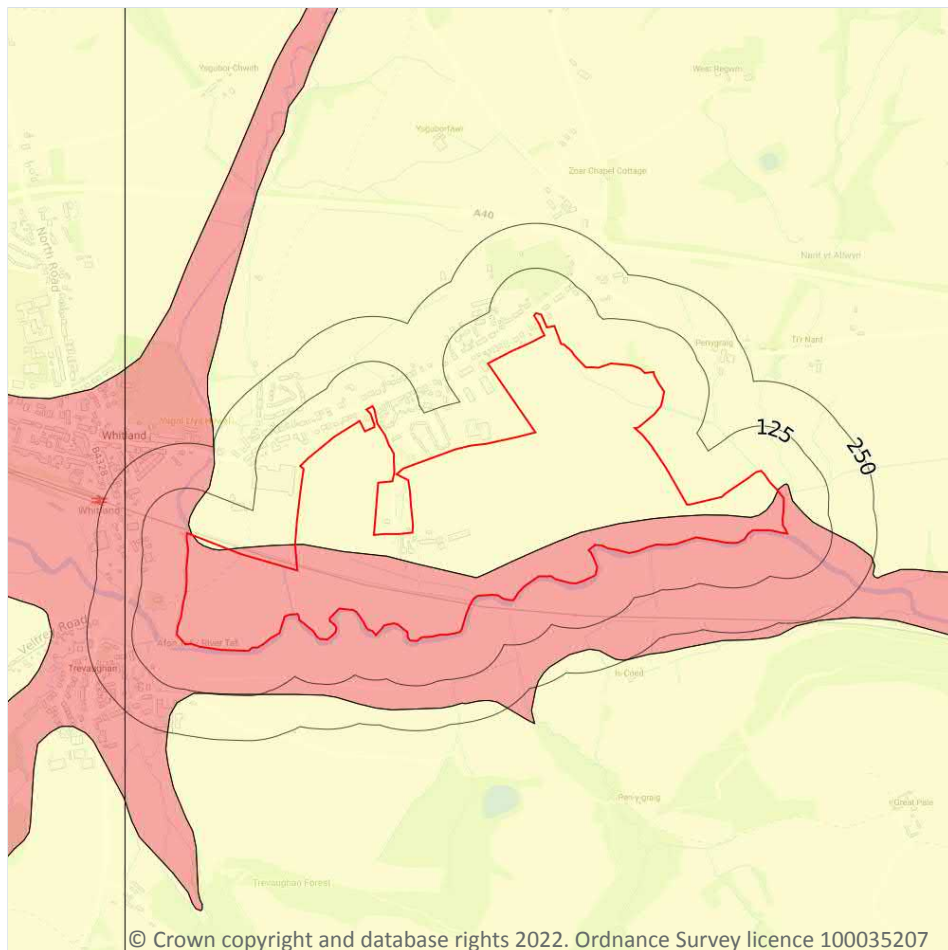
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.3 Compressible deposits

Records within 50m

2

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 115**

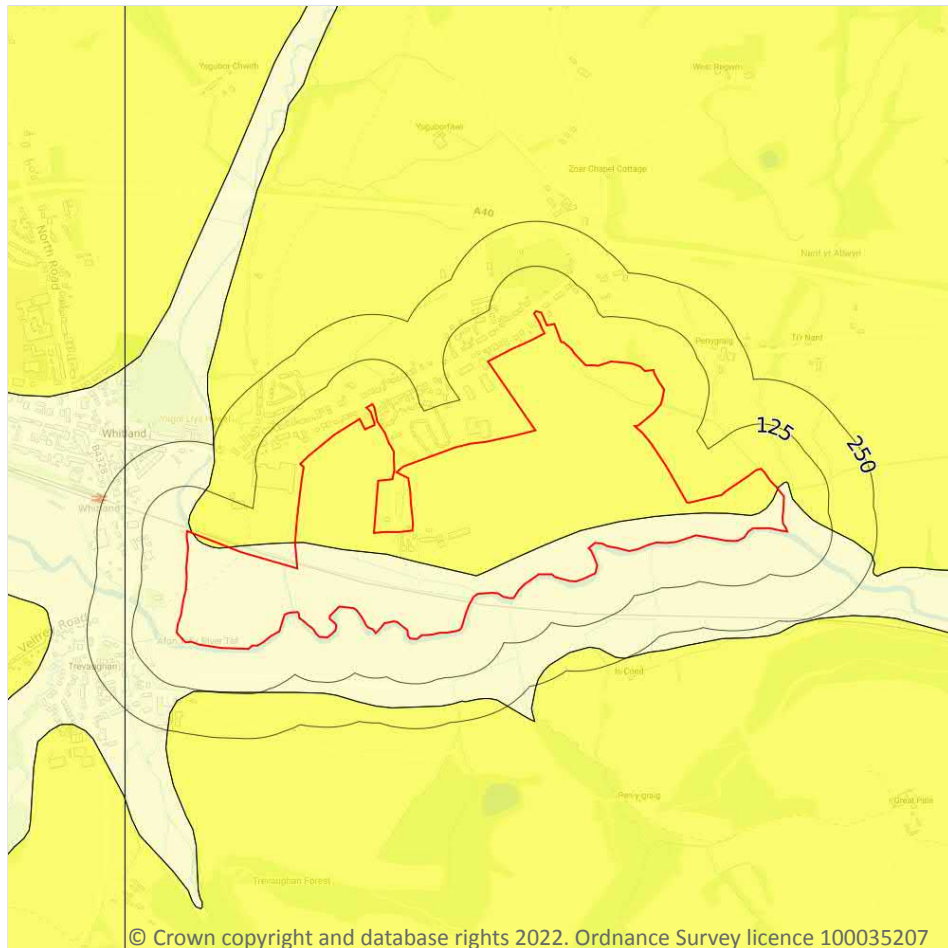
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.4 Collapsible deposits

Records within 50m

2

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

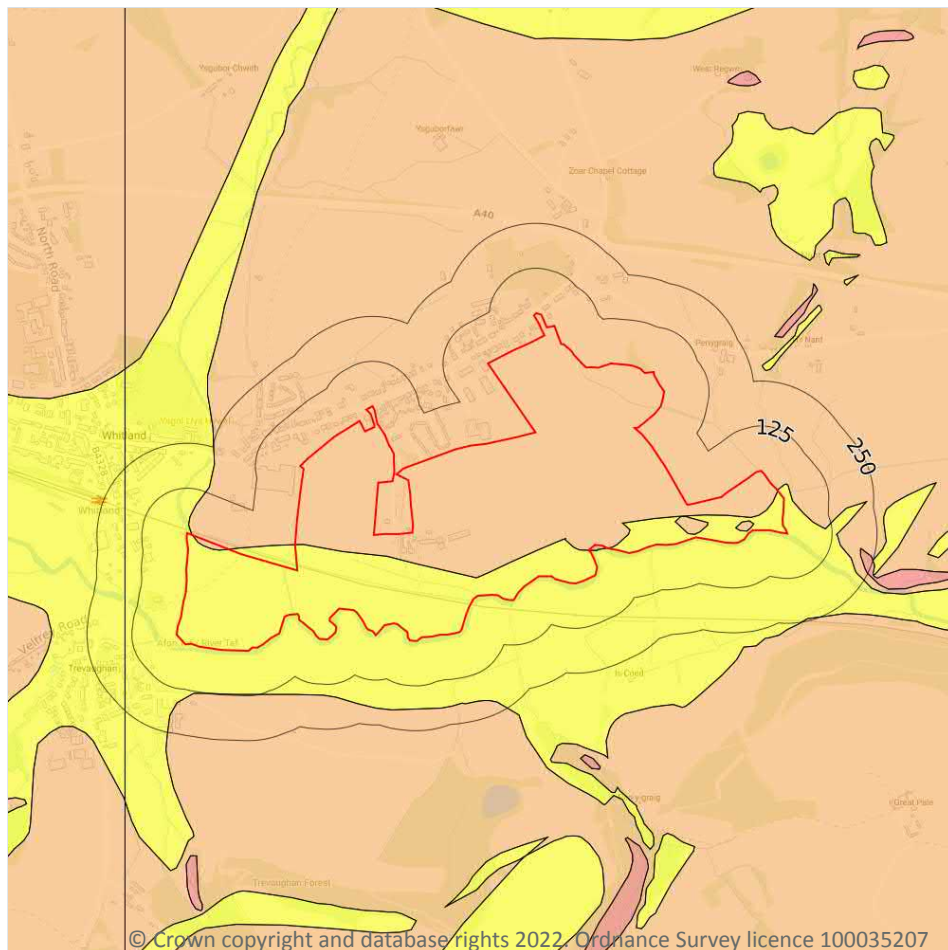
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 117**

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.5 Landslides

Records within 50m

2

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 118**

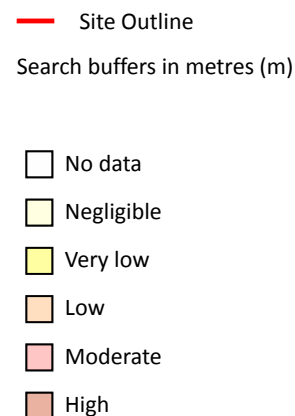
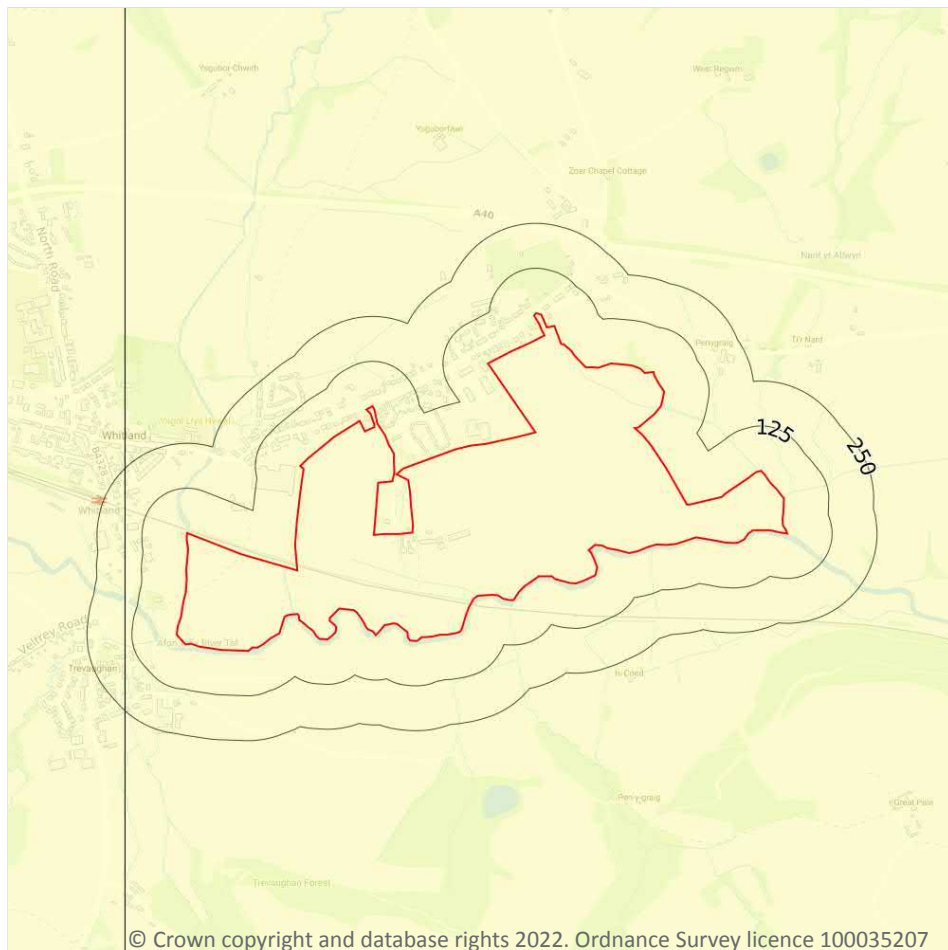
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 120**

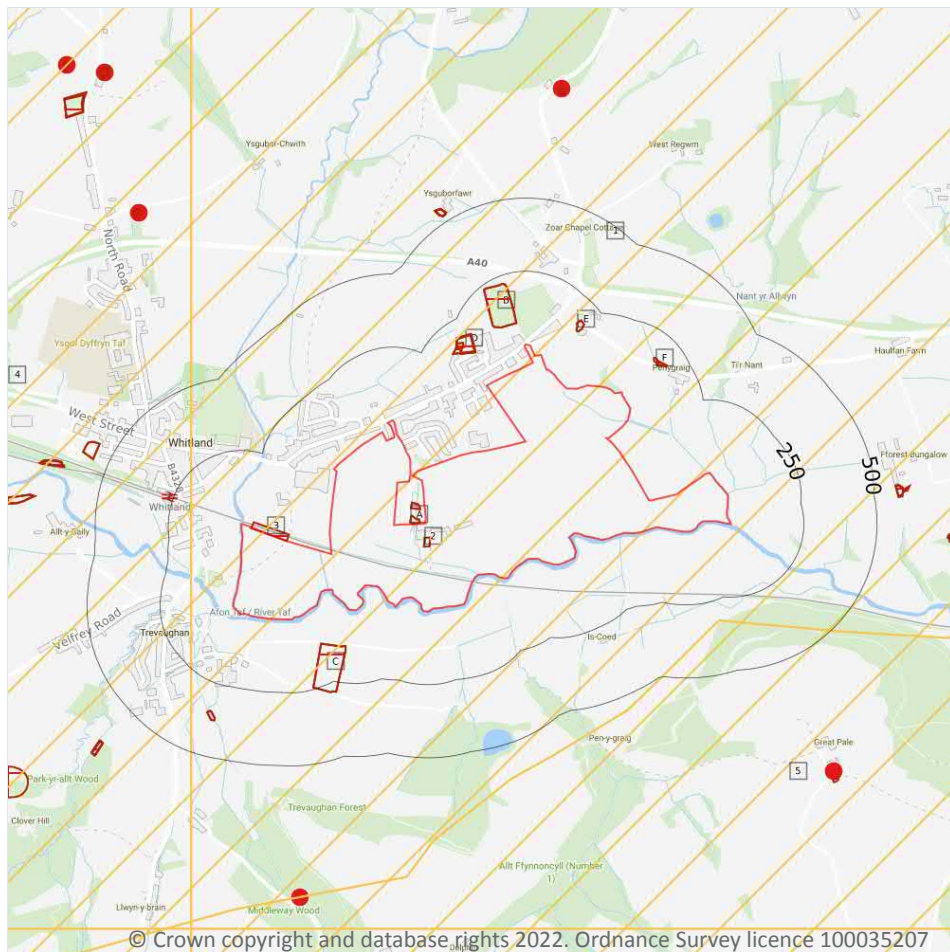
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

0

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

21

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 122**

ID	Location	Land Use	Year of mapping	Mapping scale
2	On site	Pond	1887	1:10560
3	On site	Cuttings	1887	1:10560
A	2m N	Pond	1948	1:10560
A	2m N	Pond	1887	1:10560
A	16m W	Pond	1948	1:10560
A	16m W	Pond	1887	1:10560
B	80m NW	Unspecified Ground Workings	1973	1:10000
B	80m NW	Unspecified Ground Workings	1992	1:10000
C	117m SE	Sewage Works	1973	1:10000
C	117m SE	Sewage Works	1992	1:10000
D	119m NW	Brick Yard	1948	1:10560
D	119m NW	Brick Yard	1887	1:10560
D	119m NW	Brick Yard	1908	1:10560
D	119m NW	Brick Yard	1908	1:10560
D	121m NW	Brick Yard	1948	1:10560
D	121m NW	Brick Yard	1906	1:10560
D	123m NW	Brick Yard	1963	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
E	148m NE	Ponds	1948	1:10560
E	148m NE	Ponds	1887	1:10560
F	153m NE	Ponds	1948	1:10560
F	156m NE	Ponds	1887	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

5

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 122**

ID	Location	Land Use	Year of mapping	Mapping scale
-	926m E	Tunnel	1949	1:10560
-	926m E	Tunnel	1973	1:10000
-	926m E	Tunnel	1992	1:10000
-	936m E	Tunnel	1948	1:10560
-	936m E	Tunnel	1887	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.



18.6 Non-coal mining

Records within 1000m

3

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on **page 122**

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
4	144m W	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
5	319m S	Berwyn Hills	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.



18.9 Coal mining

Records on site	0
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Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0
-----------------	---

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

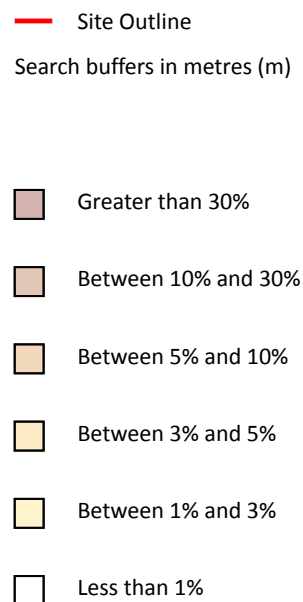
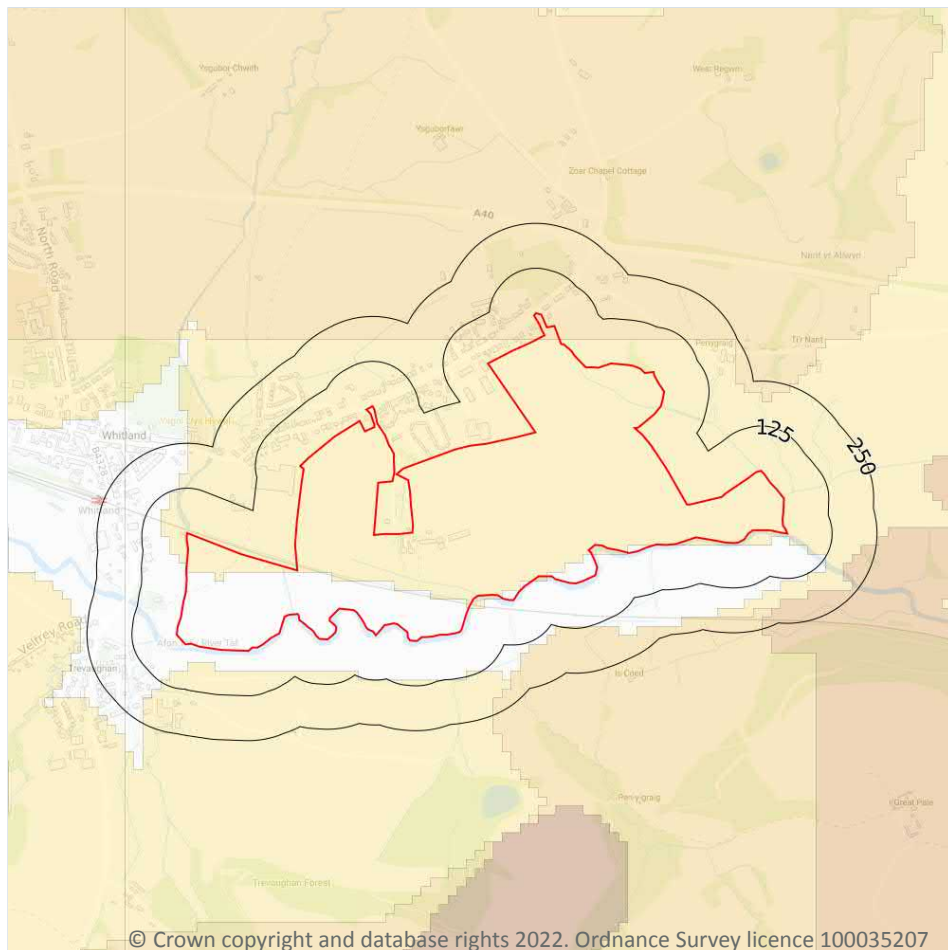
18.13 Clay mining

Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



19.1 Radon

Records on site

3

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 127**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None
On site	Less than 1%	None**



Location	Estimated properties affected	Radon Protection Measures required
On site	Between 3% and 5%	Basic

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

33

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
3m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
3m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
21m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
21m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
26m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.



20.3 BGS Measured Urban Soil Chemistry

Records within 50m

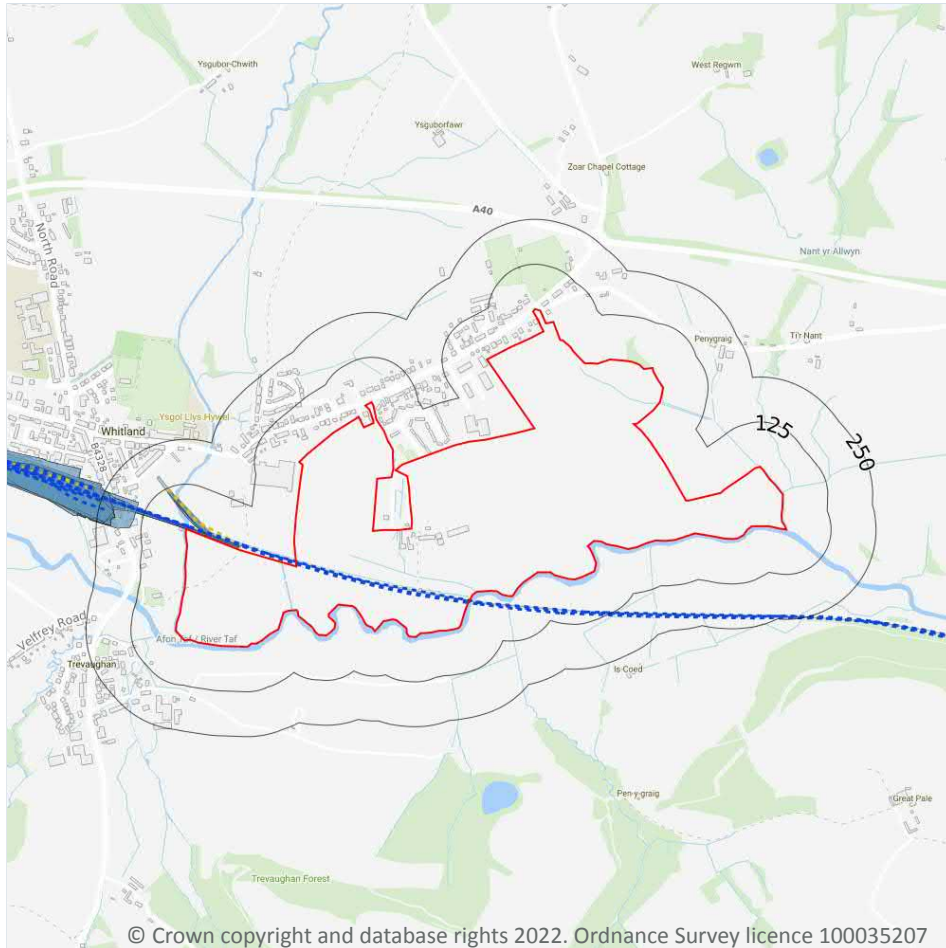
0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- ... Active railways
- ... Active tunnels
- ... Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

21

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 132**

Location	Land Use	Year of mapping	Mapping scale
0m N	Railway Sidings	1889	2500
0m N	Railway Sidings	1969	2500
1m N	Railway Sidings	1907	2500
1m N	Railway Sidings	1989	2500
3m N	Railway Sidings	1948	10560
8m N	Railway Sidings	1948	10560
9m N	Railway Sidings	1989	2500
10m N	Railway Sidings	1963	10560
148m W	Railway Sidings	1948	10560
148m W	Railway Sidings	1906	10560
170m W	Railway Sidings	1908	10560
180m W	Railway Sidings	1948	10560
201m W	Railway Sidings	1973	10000
201m W	Railway Sidings	1992	10000
206m W	Railway Sidings	1887	10560
208m W	Railway Sidings	1948	10560
214m W	Railway Sidings	1969	2500



Location	Land Use	Year of mapping	Mapping scale
215m W	Railway Sidings	1981	2500
215m W	Railway Sidings	1991	2500
232m W	Railway Sidings	1995	2500
232m W	Railway Sidings	1997	2500

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m **0**

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m **1**

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

Features are displayed on the Railway infrastructure and projects map on **page 132**

Location	Description
15m N	Abandoned

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m **27**

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

Features are displayed on the Railway infrastructure and projects map on **page 132**

Location	Name	Type
On site		rail



Location	Name	Type
On site		rail
On site		rail
On site		rail
On site	Not given	Multi Track
On site	Not given	Multi Track
7m N		rail
8m N	Not given	Multi Track
9m N	Not given	Multi Track
10m N		rail
10m N		rail
11m NW		rail
13m N	Not given	Multi Track
14m NW		rail
15m N	Not given	Multi Track
23m SE		rail
25m NW		rail
25m SE		rail
95m S		rail
95m S	Not given	Multi Track
114m SE	Not given	Multi Track
117m SE	Not given	Multi Track
218m W		rail
232m W	Not given	Multi Track
234m W		rail
242m S	Not given	Multi Track
246m S	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.



21.8 Crossrail 1

Records within 500m**0**

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m**0**

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m**0**

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

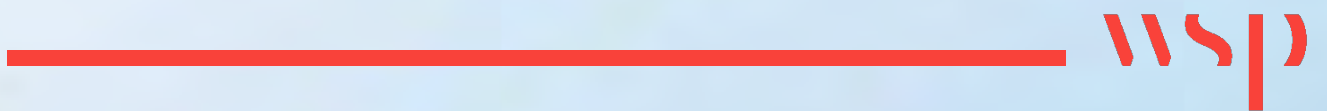
Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.



Appendix D

PHOTOLOG



SITE C TY NEWYDD FARM PHOTOGRAPHS



Figure 1. Farmyard of Ty Newydd Farm with farm machinery and bags of nitrogen fertiliser with old structures in poor condition.



Figure 2. Old farm buildings and machinery present. Loose hay and manure covering parts of animal enclosure.



Figure 3. View of the pond present at farm and the storage of equipment, wood and wires.



Figure 4. Hardstanding around the farmyard in poor condition with loose gravel and hard packed dirt.



Figure 5. Oil store within the farmyard not situated on hardstanding.



Figure 6. Examples of disconnected services in poor condition at the Site.



Figure 7. Covered manhole in farmyard.



Figure 8. Burnt rubbish pile to the left of the track. Old rusting farm equipment to the right. Hay bales and large puddles filled with green tinted standing water.



Figure 9. On the farmyard mounds of earth, rubbish piles and hay bales are present.



Figure 10. Pond/marshy area to the north of the railway line.



Figure 11. A view of the farm track facing south showing the stream across the track and within fields.



Figure 12. Churned up field with stream running through and railway to the south.



Figure 13. View looking north-east from next to the railway with a stream present behind the fence flowing into the Afon Taf in the left of the photo. Cows present in all fields.



Figure 14. Rusty iron railway bridge over the River Taf, with concrete and rubble underneath. Gravel track leading right under bridge running parallel with the water.



Figure 15. Bridge over tributary to Afon Taf.



Figure 16. View looking west across the fields to the south of the railway containing cows with broken hay container partially buried by soil.



Figure 17. South Wales Mainland Railway passes through the south-west of the site, crossing the River Taf on its exit out of the Site in the south.



Figure.18 Second fuel tank present with liklihood of needing filling up. A couple of muck heaps also present.



Figure 19. Piles of rubbish mostly made of plastic hay bail wrapping. Manure and muck present on concrete floor. Farm buildings in poor condition.



Figure 20. Farm equipment including fuel containers and and containers with unspecified contents.



Figure 21. Field with sheep and with gas pipeline close to the track leading to the farm yard.



Figure 22. Salt and Grit dispenser present at the edge of the site and a substation



Figure 23. View of the housing next to north-eastern access track.



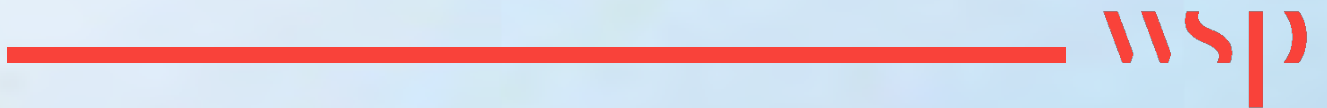
Figure 24. View from north-eastern farm track looking south, old farm equipment on a grassy field, blue water pipe line also present



Figure 25. View of the eastern fields with track to water trough.

Appendix E

BOREHOLE RECORDS



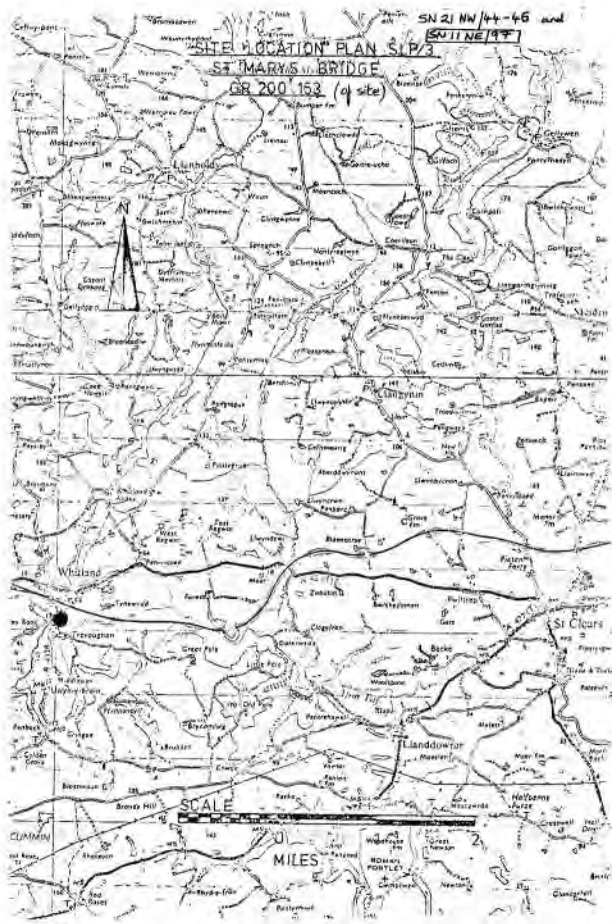
SN 21 NW/44-46 and

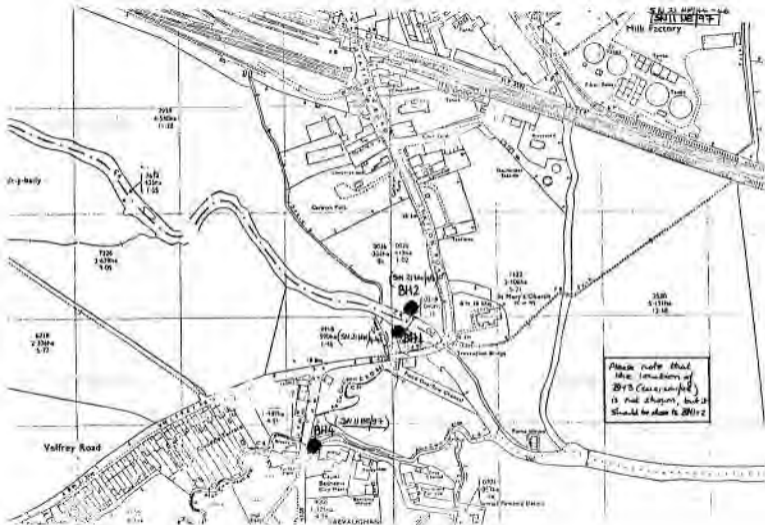
SN 11 NE/97

SITE LOCATION PLAN SLP/3

ST MARY'S BRIDGE

GB 200 153 (of site)





Norwest Holst Soil Engineering Ltd.

SN 11 NE 97

Borehole N

4

Contract No. PA955
Location Wistland
Client Dyfed County Council
Method of Boring Percussion
Diameter of Borehole 200 mm

BOREHOLE LOG

Co-ordinates
1993 = 1609

Sheet 1 of 1
Chainage
Ground Level 17.74 m A.O.D.
Date 23/7/81

Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N" R.O.D. %	Depth
TOPSOIL.		0.10	17.64				
MADE GROUND: Grey sandy loessil with occasional roots and glass.		1.00	16.74				
Fine brown silty CLAY with occasional fine to medium gravel.		1.80	16.14		1.00	(46)	
Stiff grey and brown mottled friable silty CLAY with much fine to coarse sub-rounded gravel.		3.25	14.49		2.00 No Recovery	(80)	
(Highly weathered grey shaly weak silty MUDSTONE becoming moderately weathered below 4.50 m.		5.22	12.52		3.00 (2.50)	(78)	
					4.50	114 For 300mm	
					5.00	77 For 220 mm	

Type of Sample

- ☒ S.P.T. ☒ Undisturbed
☒ C.P.T. ☒ Vane
☒ Jar ☒ Water
☒ Bulk ☒ Piezometer

Remarks (Observations of Ground Water etc.)

Water seepage encountered at 3.00 m.
Rose to 2.50 m in 20 mins.

Water levels are subject to seasonal or tide variations and should not be taken as constant

SN21NW/32

Geotechnical Engineering soil mechanics department		BOREHOLE No. 1																						
CONTRACT Whitland, 2023.1660		REPORT No. 4285/73/DT																						
Client Messrs. W.S. Atkins & Partners.		Ground Level m. O.D.																						
Situ Address Gronw Bridge, Whitland, Carmarthenshire.		Boring Commenced 19.6.73 Boring Completed 19.6.73																						
Types and Dia. of Boring Shell and Auger - 200 mm. diameter																								
Water Strikes 1. 4.00 m. 2. 3.		Water Levels Recorded During Boring m <table border="1"> <tr> <td>Hole Depth</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Casing Depth</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Water Level</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		Hole Depth							Casing Depth							Water Level						
Hole Depth																								
Casing Depth																								
Water Level																								
Remarks Ground water not sealed off during boring operations. Chiselling from 7.0 m. to 8.50 m.																								
Description	Scale 20mm = 1m.		Samples		Depth m	S.P.T. N																		
	Depth	Legend	Ref. No.	Type																				
Made ground (brown and grey mottled clay with small stones, coal, brick fragments and occasional root fibres.) Grey shale, weathered in upper levels.			601	D	1.00	20																		
			602	J	1.75																			
			603	J	2.50																			
			604	U	3.00-3.45																			
			605	J	3.75																			
			606	J	4.25																			
			607	D	4.50	82																		
			608	J	5.25																			
			609	D	6.00	150+																		
			610	J	6.75																			
			611	D	7.50	300+																		
			612	J	8.25																			
		SPT	8.50	200+																				

SP 21 NW 133

soil mechanics department

BOREHOLE No.
2

CONTRACT	Whitland.	2026. 1659	REPORT No. 4285/73/DT
Client	Messrs. W.S. Atkins & Partners.		Ground Level m. O.D.
Site Address	Grown Bridge, Whitland, Carmarthenshire.		Boring Commenced 20.6.73 Boring Completed 21.6.73
Type and Dia. of Boring	Shell and Auger - 200 mm. diameter		

Water Strikes	Water Levels Recorded During Boring m.						
1. 6.00 m.	Hole Depth	6.50					
2.	Casing Depth	6.00					
3.	Water Level	4.25*					

Remarks *Overnight standing water level. Ground water not sealed off during boring operations.

Description	Scale 20mm = 1m.		Samples		Depth m	S.P.T. N
	Depth	Legend	Ref. No.	Type		
Made ground (brown/grey mottled clay with small stones, coal, brick fragments etc.).			616	D	1.50	17
			617	J	2.25	
			618	J	2.75	
Grey friable shale with iron-staining in fissures and bands of grey clay.	2.75		619	U	3.00-3.45	
			620	J	3.75	
			621	U	4.50-4.95	
			622	J	5.25	
Grey shale, weathered in upper levels.	5.25		623	D	6.00	59
			624	J	6.75	
			625	D	7.50	200+
	7.50		626	W	(6.00)	

SNAINW/3.4
 SN 21 NW 34
 2007.1642

1147 WE 1150-1200 1200 1200 1200 1200

SECTION OF Boring (core)

at Island Whittard

228

Maps: One-inch NS. 228 Six-inch 37 SW County Cornwall

Height above O D. _____ Latitude _____ Longitude _____

Communicated by J. E. Cornwall, Tulse Lodge, Upper Road (N.W.) Date of Sinking 1935

Made by ? (for Dr. A. Cornish) Water Table Dip of Strata see below

G.S.M. 6198

	Thickness	Depth from Surface
Note (opposite) for, and primarily of, The United States (G.S.M.) LIT, Whittard		
228/2.B. Yellow clay	3	3
Alternating	3	6
Grey clay	7	13
Massive	97	110
Shale interspersed with quartz.		
Depth of 228/2.B. 110		110
[From bottom of 228/2.B. 110] Very hard, extremely resistant, dark, fine & light		110
Shale of 228/2.B. 110 light soil to G.S.M. Described as quartz, and fine. Was		
a medium to light grey, heavily black, shale with many more flakes, rather irregular, flat,		
partially, and heavily broken. Truly the circular grinding marks on horizontal, the		
228/2.B. 110 will be about 60°.		
Cat D. 11.5.35.		

Mr. Cornwall says (11.5.35) :- "I made a test of 100 ft. and find 560 yards
 granite for lower strata." [? for lower strata or for the granite?]

One described (as broken (flying into)) at 110 ft. depth

228/2.B. 110 has been used as a test of the quality of the material used for the

228/2.B. 110 is a small dry light or red soil which has
 not been used for several years & is not white or light as
 before. It is mixed with a small amount of R.W.L. (probably)
 light & white as Portland cement (probably in small)
 228/2.B. 110

SN 20 16
A SN 2012 1654
B SN 2013 1658
C SN 2006 1653

SN 214-A-C 100

229

SECTION OF Briny (core)at Grand WhittardMaps: One-inch MS. 228 Six-inch 37 SW County Cornwall

Height above O.D. _____ Latitude _____ Longitude _____

Communicated by J. E. Connell, Junior Lodge, Upper Road (N.W.) Date of Sinking 1935Made by ? (For Dr. A. Connell) Western Ice Mine Dip of Strata see later

G.S.M. 6198

Notes (apparently) for, and probably at,
The Central Division (Whitlock), L.R., Whittard

228/3.B. { Yellow clay
 { Green
 { Gray clay

Whittard, 1/2 Shale interspersed with quartz.

1/2 8 7 1/2

Depth at Feb. 11, 1935

[From letter of Feb. 11, 35] Very hard solution resulting, slate pale & light

Sample at ¹⁰⁰ depth sent to Gen. L. L. Connell in quartz, no fossils. Color a medium-to-dark gray, scarcely black, shale with small mica flakes, rather irregular, flaky fracture; uncrystalline. Taking the circular grinding marks as horizontal, the dip of the ^{shale} ~~shale~~ would be about 60°.

C.H.D. 16. 2. 35.

Mr. Connell says (11.11.35) in "I made a list of 100 ft. and had 500 yards of shale for low attainable" [? for low shale or low to ground?]

Bore standard (= horizontal of sinking site) at 110 ft. depth

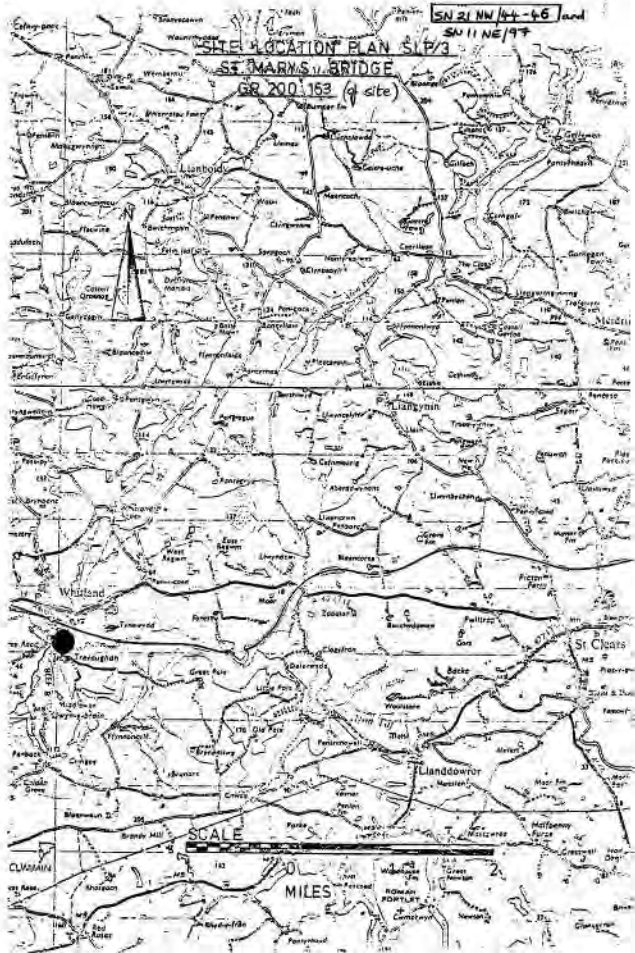
228/3.B. This bore was not used as the only section was not used.

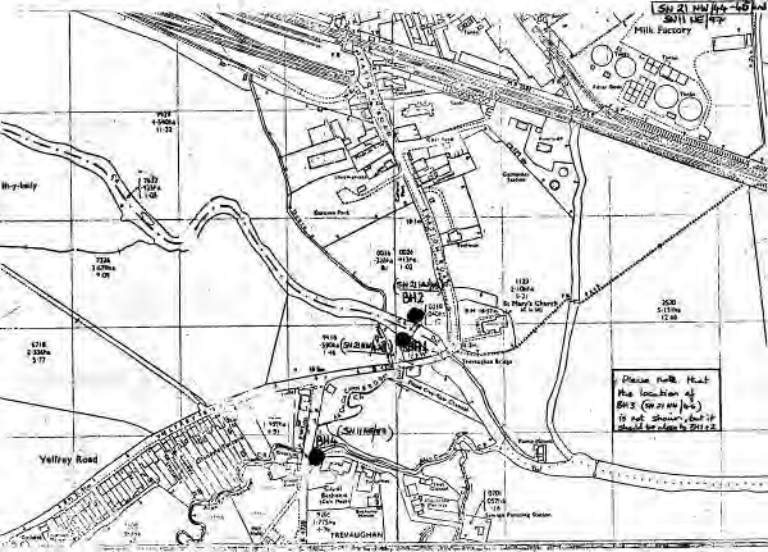
228/3.A. This is a mud log kept in the safety cabinet for some years & don't think we should be right that put down about 1925. It is used as a R.W.C. attainable.

Sighted & listed on Parabolite 31 N.W., (actually in Cornhill)

209 17/2/35

GR 200 153 (at site)





SN 21 NW/44

Norwest Holst Soil Engineering Ltd.

Borehole No.

1

Contract No. F4955

BOREHOLE LOG

Sheet 1 of 1

Location: Whistland

Client: Dyfed County Council

Method of Soring: Percussion

Diameter of Borehole: 200 mm

Coordinates

2001 N. 161° E.

Chainage: 17.32

Ground Level: 17.32 m A.D.D.

Date: 21/2/81

Description of Strata	Legend	Depth Below G.L. (m)	G.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.D.D. %	Daily Progress
TOPSOIL.		0.20	17.12				
Firm brown friable silty CLAY with occasional roots.		1.00	16.12		0.50		
Soft brown silty CLAY with very occasional fine gravel.		1.50	15.62		1.00	(8)	
Very soft grey silty occasionally fine sandy CLAY.		2.30	15.02		2.00	(40)	
Medium dense slightly silty sandy medium and coarse sub-rounded GRAVEL.		3.60	13.82		3.00	27	
Firm grey CLAY with frequent large mudstone fragments.		4.00	13.32		4.00	24	
Medium dense coarse GRAVEL and COBBLES with silty sandy clay matrix.		4.50	12.82	200mm to 5.00m	4.50	(90)	
Highly weathered grey weak silty shaly MUDESTONE.		5.20	12.12		5.20	83 blows for 225 mm	
Moderately weathered grey silty moderately weak MUDESTONE.		6.15	11.17		6.00	78 for 150 mm	

Type of Sample

- ☐ S.P.T. ☐ Undisturbed
☐ C.P.T. ☐ Vane
☐ Jar ☐ Water
☐ Bulk ☐ Piezometer

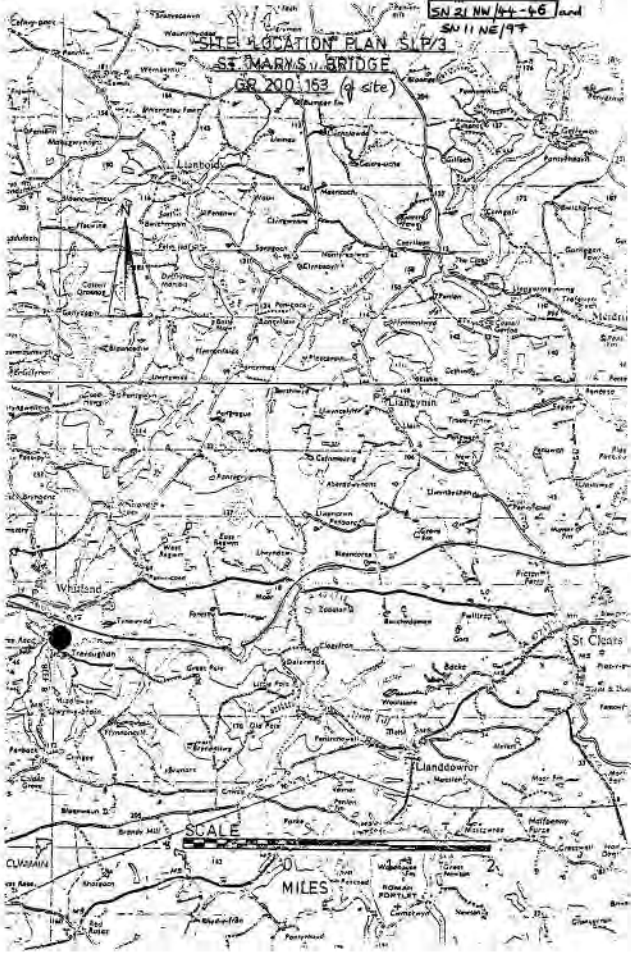
Remarks (Observations of Ground Water etc.)

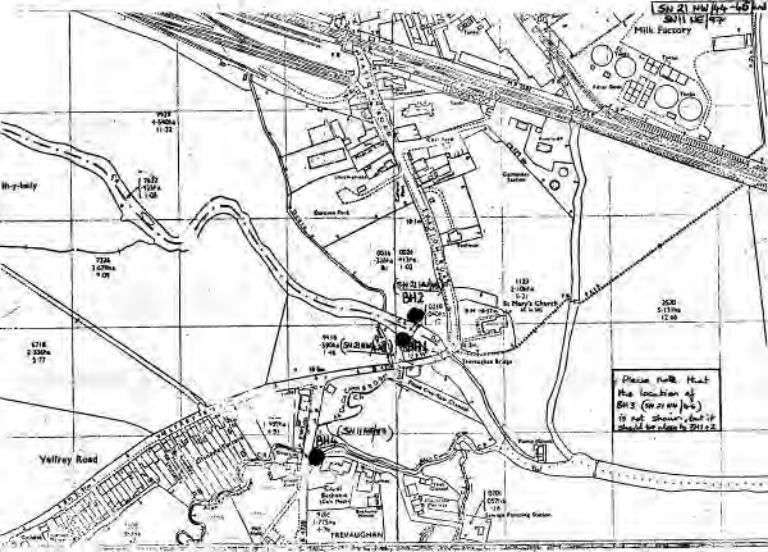
Water struck at 2.5 m.

Water levels are subject to seasonal or tidal variations and should not be taken as constant

SN 21 NW 44-46 and
SW 11 NE 97

SITE LOCATION PLAN SLP/3
ST MARNS BRIDGE
GR 200 153 (of site)





Norwest Holst Soil Engineering Ltd.

Borehole No.

2

Contract No. F4955
 Location Whitland
 Client Dyfed County Council
 Method of Boring Percussion
 Diameter of Borehole 200 mm

BOREHOLE LOG

Co-ordinates
 20015. 1621 N.

Sheet 1 of 1

Chainage

Ground Level 16.87 m.A.O.D.

Date 24/7/81

Description of Strata	Legend	Depth Below G.L. (m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/R.O.D. %	Daily Progress
TOPSOIL.		0.10	16.77				
Firm brown friable silty CLAY with occasional roots.		1.15	15.72		0.50 1.00	(6)	
Very soft grey very silty CLAY with some peat traces.		2.60	14.27		2.00	(20)	
Medium dense brown sandy GRAVEL.		3.00	13.87		3.00	20	
Medium dense fine to coarse sub-angular GRAVEL with silty sandy clay matrix.		3.50	13.37				
Highly weathered grey weak MUDESTONE with much completely weathered clayey material.		4.50	12.37	200mm to 4.50m	4.00 4.50	23	
Highly to moderately weathered dark grey silty shaly weak MUDESTONE.		5.70	11.17		5.50	98 for 225mm	

Type of Sample

- ☒ S.P.T. ☒ Undisturbed
☒ C.P.T. ☒ Vane
☐ Jar ☐ Water
☒ Bulk ☒ Piezometer

Remarks (Observations of Ground Water etc.)

Water struck at 2.50 m.

Water levels are subject to seasonal or tidal variations and should not be taken as constant.

SN 20 16
A SN 2012 1654
B SN 2013 1658
C SN 2006 1653

SN 214-A-C 100

229

SECTION OF Briny (ore)at Black WhittardMaps: One-inch N.S. 228 Six-inch 37 SW County Carver

Height above O.D. _____ Latitude _____ Longitude _____

Communicated by J. E. Connell, Tule Lodge, Upper Rock (N.W.) Date of Sinking 1935Made by ? (For Dr. A. Connell) Western Slope Mine Dip of Strata see later

G.S.M. 6198

Notes (apparently) for, and probably at,
The Central Division (Whittard) L.R., Whittard

228/3.B. { Yellow clay
 { Green
 { Gray clay

Whittard, 1/2 Shale interspersed with quartz.

1/4 8 7 4 7

Depth at Feb. 4, 1935

[From letter of Feb. 11, 35] Very hard solution resulting, slate pale & light

Sample at ¹⁰⁰ depth sent to Geo. L. Connell. Described as quartz, iron pyrite. Also a medium-to-dark gray, somewhat black, shale with small iron flakes, rather irregular, flaky fracture; uncrystalline. Taking the circular grinding marks as horizontal, the dip of the ^{shale} ~~shale~~ would be about 60°.

C.H.D. 16. 2. 35.

Mr. Connell says (N.W. 35) in "I made a test at 100 ft. and found 500 grains of pyrite per lb. of shale" [? per lb. shale or per lb. ground?]

Bore described (as "Whittard" of sinking site) at 110 ft. depth

228/3.B. This bore was not used as the only other one was used.

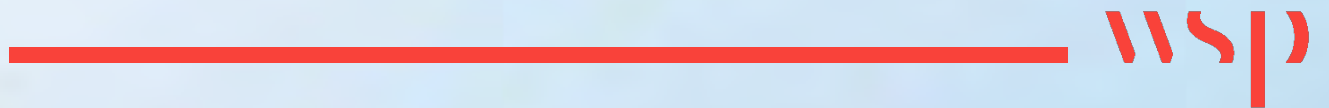
228/3.A. This is a small dry shaft on the right side of the hill, which has been used for several years & doubt which is detailed as from ^{note that put down about 1925.} It is used as a R.W.C. shaft.

Sighted & noted on Parole, 31 N.W., (actually in boundary)

209 17/2/35

Appendix F

UXO PRE-DESK STUDY
ASSESSMENT



Pre-Desk Study Assessment

Site:	Ty Newydd Farm, Whitland, Wales
Client:	WSP
Contact:	Rebecca Hoyle
Date:	3 rd May 2022
Pre-WWI Military Activity on or Affecting the Site	None identified.
WWI Military Activity on or Affecting the Site	None identified.
WWI Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Transport infrastructure and public utilities.
WWI Bombing	None identified on the Site.
Interwar Military Activity on or Affecting the Site	None identified.
WWII Military Activity on or Affecting the Site	None identified.
WWII Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Transport infrastructure and public utilities.
WWII Bombing Decoys (within 5km of Site)	None.
WWII Bombing	During WWII the Site was located in the Rural District (RD) of Carmarthen, which officially recorded 67No. High Explosive (HE) bombs with a bombing density of 0.3 bombs per 405 hectares (ha). No readily available records have been found to indicate that the Site was bombed.
Post-WWII Military Activity on or Affecting the Site	None identified.
Recommendation	A detailed desk study, whilst always prudent, is not considered essential in this instance.
Further information	For information about Zetica's detailed UXO desk studies and other UXO services, please visit our website: www.zeticauxo.com . Details and downloadable resources covering the most common sources of UXO hazard affecting sites in the UK can be found here . If you have any further queries, please don't hesitate to get in contact with us at uxo@zetica.com or 01993 886 682.

This summary is based on a cursory review of readily available records. Caution is advised if you plan to action work based on this summary.

It should be noted that where a potentially significant source of UXO hazard has been identified on the Site, the requirement for a detailed desk study and risk assessment has been confirmed and no further research will be undertaken at this stage. It is possible that further in-depth research as part of a detailed UXO desk study and risk assessment may identify other potential sources of UXO hazard on the Site.

Appendix G

RISK ASSESSMENT METHODOLOGY

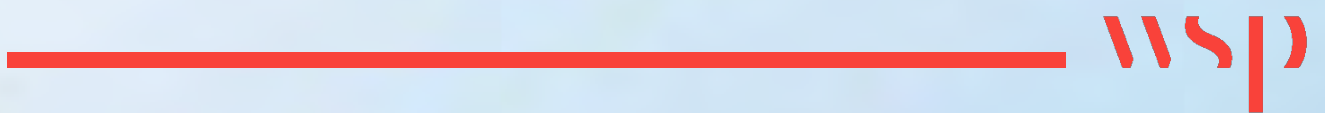


Table 1: Classification of the Severity of Risk

Severe	Acute risks to human health; Major pollution of controlled waters (watercourses or groundwater).
Medium	Chronic (long-term) risk to human health; Pollution of sensitive controlled waters (surface waters or aquifers).
Mild	Exposure to human health unlikely to lead to “significant harm”; Exposure could lead to slight short-term effects (e.g. mild skin rash); Requirement for protective equipment during site works to mitigate health effects; Damage to non-sensitive ecosystems or species.
Minor	No measurable effects on humans, water quality or ecosystems.

The probability of the risk occurring is classified according to criteria given in Table 2.

Table 2: Probability of Risk Occurring

High Likelihood	Contaminant linkage may be present, and risk is almost certain to occur in the long term, or there is evidence of harm to the receptor.
Likely	Contaminant linkage may be present, and it is probable that the risk will occur over the long term.
Low Likelihood	Contaminant linkage may be present and there is a possibility of the risk occurring, although there is no certainty that it will do so.
Unlikely	Contaminant linkage may be present but the circumstances under which harm would occur are improbable.

An overall qualitative evaluation of the level of risk is gained from a comparison of the severity and probability as presented in Table 3.

Table 3: Comparison of Severity and Probability

		Severity			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very high risk	High Risk	Moderate risk	Low risk
	Likely	High risk	Moderate risk	Moderate / low risk	Low risk
	Low Likelihood	Moderate risk	Moderate/ low risk	Low risk	Very low risk
	Unlikely	Moderate / low risk	Low risk	Very low risk	Very low risk

The definitions of classified risk terms, as stated in Table 3, are defined below in Table 4.

Table 4: Qualitative Risk Assessment – Classification of Consequence

Classification	Definition
Very High Risk	Severe harm to a receptor may already be occurring, or a high likelihood severe harm will arise to a receptor, unless immediate remedial works / mitigation measures are undertaken.
High Risk	Harm is likely to arise to a receptor, and is likely to be severe, unless appropriate remedial actions / mitigation measures are undertaken. Remedial works may be required in the short-term, but likely to be required over the long-term.
Moderate Risk	Possible that harm could arise to a receptor, but low likelihood that such harm would be severe. Harm is likely to be mild. Some remedial works may be required in the long-term.
Moderate / Low Risk	Possible that harm could arise to a receptor, but where a combination of likelihood and consequence results in a risk that is above low, but is not of sufficient concern to be classified as mild. Limited further investigation may be required to clarify the risk. If necessary, remediation works are likely to be limited in extent.
Low Risk	Possible that harm could arise to a receptor. Such harm, at worst, would normally be mild.
Very Low Risk	Low likelihood that harm could arise to a receptor. Such harm is unlikely to be any worse than mild.



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