

APPENDIX D: ENVIROCHECK REPORTS

D.1 Sensitivity Report and Maps

D.2 Geology Maps

D.3 BGS BHs

D.4 Groundwater Maps

D.5 Historic Maps

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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

31821026_1_1

Customer Reference:

121620

National Grid Reference:

335770, 348860

Slice:

A

Site Area (Ha):

5.32

Search Buffer (m):

1000

Site Details:

Site at 335760, 348880

Llwyn Onn WTW

Cefn Road

Wrexham

Client Details:

MR R Jones

Black & Veatch Ltd

38 City Road

Chester

CH1 3AE

Prepared For:

Dee Valley Water

Packsaddle

Wrexham Road

Rhostyllen

Wrexham

LL14 4EH

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	19
Hazardous Substances	-
Geological	23
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Sensitive Land Use	-
Data Currency	28
Data Suppliers	33
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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and the Health Protection Agency.

Report Version v47.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		3	4	29
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 9	Yes			
Pollution Incidents to Controlled Waters	pg 10	1		1	17
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 13		1	1	2
River Quality Biology Sampling Points	pg 13			1	1
River Quality Chemistry Sampling Points	pg 14				4
Substantiated Pollution Incident Register	pg 17		1		
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability	pg 17	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 18		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 18		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 19				4
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 19				2
Local Authority Recorded Landfill Sites	pg 20				3
Registered Landfill Sites	pg 20			2	1
Registered Waste Transfer Sites	pg 22				1
Registered Waste Treatment or Disposal Sites	pg 22				1

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS Recorded Mineral Sites	pg 23				4
BGS 1:625,000 Solid Geology	pg 23	Yes	n/a	n/a	n/a
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 23	Yes	n/a	n/a	n/a
Mining Instability	pg 23	Yes	n/a	n/a	n/a
Natural and Mining Cavities					
Potential for Collapsible Ground Stability Hazards				n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 23	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 24	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 25	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 25	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 26	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 26	Yes	n/a	n/a	n/a
Shallow Mining Hazards				n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 27			1	n/a
Fuel Station Entries					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Llwynonn Combined Sewerage System Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: CM0005901 Permit Version: 1 Effective Date: 14th February 1958 Issued Date: 14th February 1958 Revocation Date: 28th March 2002 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Clywedog Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A13NW (W)	44	1	335600 348900
2	Discharge Consents Operator: Company Secretary Property Type: Water Treatment Works Location: Llwyn Onn Wtw Cefn Road Abenbury, Cefn Road, Wrexham, LI13 9tt Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0066701 Permit Version: 3 Effective Date: 12th July 2003 Issued Date: 11th July 2003 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: River Clywedog Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SE (S)	176	1	335850 348550
2	Discharge Consents Operator: Company Secretary Property Type: Water Treatment Works Location: Llwyn Onn Wtw Cefn Road Abenbury, Cefn Road, Wrexham, LI13 9tt Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0066701 Permit Version: 2 Effective Date: 14th July 2000 Issued Date: 24th September 1971 Revocation Date: 11th July 2003 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: River Clywedog Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 10m	A13SE (S)	176	1	335850 348550
3	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Wrexham Frog Hall (Nw Trunk Se Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0200801 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 4th March 1994 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Clywedog Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A12NE (W)	313	1	335300 348900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Llwyn Onn Cso, Off Millbrook Road, Wrexham Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0005901 Permit Version: 2 Effective Date: 29th March 2002 Issued Date: 28th March 2002 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Afon Clywedog Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12NE (W)	335	1	335280 348890
4	Discharge Consents Operator: Wrexham Borough Council Property Type: Undefined Or Other Location: Five Fords Stw Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0057501 Permit Version: 1 Effective Date: 17th June 1969 Issued Date: 17th June 1969 Revocation Date: 21st March 1986 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Clywedog Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	479	1	336150 348350
4	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Five Fords Stw - Settled Storm, Cefn Road, Abenbury, Wrexham, LI13 0rx Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0005702 Permit Version: 2 Effective Date: 18th November 2003 Issued Date: 17th November 2003 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Clywedog Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	502	1	336180 348340
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Five Fords Stw, Wrexham, Wales, Uk Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0077801 Permit Version: 1 Effective Date: 1st July 1983 Issued Date: 1st January 1981 Revocation Date: 13th November 1989 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dee Status: Authorisation revokedRevoked Positional Accuracy: Manually corrected supplier location	A9NW (SE)	488	1	336200 348370

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Five Fords Stw, Wrexham, Wales, Uk Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0077801 Permit Version: 2 Effective Date: 14th November 1989 Issued Date: 14th November 1989 Revocation Date: 29th September 1990 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dee Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	508	1	336234 348370
5	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Five Fords Stw, Wrexham, Wales, Uk Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0077801 Permit Version: 3 Effective Date: 30th September 1990 Issued Date: 14th November 1989 Revocation Date: 28th November 1991 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Dee Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	508	1	336234 348370
6	Discharge Consents Operator: Company Secretary Property Type: Water Supply Grid Location: Between Llwyn Onn And Kings' Mills, Kings' Mills Wrexham Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: CM0066701 Permit Version: 1 Effective Date: 24th September 1971 Issued Date: 24th September 1971 Revocation Date: 13th July 2000 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Clywedog Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A12NE (W)	511	1	335100 348900
7	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Undefined Or Other Location: Five Fords Stw Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0061201 Permit Version: 1 Effective Date: 20th February 1970 Issued Date: 20th February 1970 Revocation Date: 22nd December 1992 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Clywedog Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	566	1	336350 348400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: Rigg G.R.A. Property Type: Undefined Or Other Location: Llwyn Onn Septic Tank Drainage Authority: Environment Agency, Welsh Region Catchment Area: Unknown Reference: Cm0002101 Permit Version: 1 Effective Date: 15th February 1966 Issued Date: 15th February 1966 Revocation Date: 11th November 1994 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Clywedog Status: Consent expired Positional Accuracy: Approximate location provided by supplier	A12NW (W)	610	1	335000 349000
9	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Abenbury Wwtw, Cefn Road, Abenbury, Wrexham, LI13 0pa Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0110201 Permit Version: 3 Effective Date: 20th April 2005 Issued Date: 20th April 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Cylwedog Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	731	1	336554 348403
9	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Abenbury Stw Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: CM0110201 Permit Version: 2 Effective Date: 30th January 1985 Issued Date: 30th January 1985 Revocation Date: 19th April 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Cylwedog Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	763	1	336600 348420
9	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Abenbury Stw Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0110201 Permit Version: 1 Effective Date: 19th August 1982 Issued Date: 19th August 1982 Revocation Date: 29th January 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Not Specified Environment: Receiving Water: Cylwedog Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	763	1	336600 348420

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Discharge Consents Operator: Clwyd County Council Property Type: Undefined Or Other Location: Abenbury Road Sewerage Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0031901 Permit Version: 1 Effective Date: 19th November 1965 Issued Date: 19th November 1965 Revocation Date: 5th April 1995 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Gwenfro Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A17SW (W)	793	1	334850 349190
11	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Wrexham Queens Park Bryn Hafod Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0174501 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 16th March 1998 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Gwenfro Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	814	1	335100 349600
12	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Wrexham Queens Park Light Ind. Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0174601 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 16th March 1998 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Gwenfro Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	834	1	334900 349400
13	Discharge Consents Operator: Wrexham Maelor Borough Council Property Type: Undefined Or Other Location: Wrexham Whitegate Factory Estate Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0114501 Permit Version: 1 Effective Date: 18th November 1966 Issued Date: 18th November 1966 Revocation Date: 8th April 1993 Discharge Type: Miscellaneous Discharges - Surface Water Discharge: Ditch Environment: Receiving Water: Ditch Leading To River Gwenfro Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	841	1	334925 349450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Discharge Consents Operator: Wrexham Maelor Borough Council Property Type: Undefined Or Other Location: Wrexham Abenbury Works Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0037801 Permit Version: 1 Effective Date: 14th December 1966 Issued Date: 14th December 1966 Revocation Date: 11th July 1991 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Gwenfro Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	878	1	334800 349300
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Queensway Industrial Estate, Manafon, Wrexham Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Cg0418901 Permit Version: 3 Effective Date: 31st March 2010 Issued Date: 3rd February 2010 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Clwyddog Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	914	1	334761 349299
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Queensway Industrial Estate, Manafon, Wrexham Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Cg0418901 Permit Version: 2 Effective Date: 31st March 2010 Issued Date: 23rd March 2009 Revocation Date: 30th March 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Clwyddog Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	914	1	334761 349299
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Queensway Industrial Estate, Manafon, Wrexham Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Cg0418901 Permit Version: 1 Effective Date: 31st March 2009 Issued Date: 4th March 2005 Revocation Date: 30th March 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Clwyddog Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Manually corrected supplier location	A17SW (NW)	914	1	334761 349299

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Nr King'S Mills Queens Park Wr, Queens Park Wrexham Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Cg0346602 Permit Version: 3 Effective Date: 3rd May 2010 Issued Date: 3rd February 2010 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Gwenfro Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	915	1	334760 349300
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Nr King'S Mills Queens Park Wr, Queens Park Wrexham Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Cg0346602 Permit Version: 3 Effective Date: 3rd May 2010 Issued Date: 3rd February 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Gwenfro Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	915	1	334760 349300
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Nr King'S Mills Queens Park Wr, Queens Park Wrexham Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Cg0346602 Permit Version: 2 Effective Date: 31st March 2009 Issued Date: 27th March 2009 Revocation Date: 2nd May 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Gwenfro Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	915	1	334760 349300
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Nr King'S Mills Queens Park Wr, Queens Park Wrexham Authority: Environment Agency, Welsh Region Catchment Area: Not Given Reference: CG0350501 Permit Version: 1 Effective Date: 14th September 1994 Issued Date: 14th September 1994 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Gwenfro Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	915	1	334760 349300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Nr King'S Mills Queens Park Wr, Queens Park Wrexham Authority: Environment Agency, Welsh Region Catchment Area: Not Given Reference: CG0346602 Permit Version: 1 Effective Date: 12th August 1994 Issued Date: 12th August 1994 Revocation Date: 30th March 2009 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Gwenfro Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	915	1	334760 349300
15	Discharge Consents Operator: Jones G.E. & Co. Property Type: Undefined Or Other Location: Five Fords Farm Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0162701 Permit Version: 1 Effective Date: 27th October 1988 Issued Date: 27th October 1988 Revocation Date: 23rd December 1992 Discharge Type: Unspecified Discharge: Onto Land Environment: Receiving Water: To Land Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	909	1	336700 348300
16	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Wrexham Queens Park Ps Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0175101 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 16th March 1998 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Gwenfro Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	921	1	334800 349400
16	Discharge Consents Operator: Company Secretary Property Type: Sewerage Network - Pumping Station - Water Company Location: Wrexham Queens Park Ps Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0066601 Permit Version: 1 Effective Date: 24th September 1971 Issued Date: 24th September 1971 Revocation Date: 12th January 1996 Discharge Type: Unspecified Discharge: Into And/Or Watercourse Environment: Receiving Water: Un-Named Trib. Of Clywedog Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	921	1	334800 349400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Discharge Consents Operator: Company Secretary Property Type: Sewerage Network - Pumping Station - Water Company Location: Wrexham Queens Park Ps Authority: Environment Agency, Welsh Region Catchment Area: River Dee Reference: Cm0066602 Permit Version: 1 Effective Date: 24th September 1971 Issued Date: 24th September 1971 Revocation Date: 12th January 1996 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Clywedog Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	921	1	334800 349400
16	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Sso At Queens Park Wrexham, Storm Sewage Overflow, Queens Park, Wrexham, Wales Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Cm0109701 Permit Version: 2 Effective Date: 30th October 2002 Issued Date: 29th October 2002 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Gwenfro Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	926	1	334780 349370
16	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Sso At Queens Park Wrexham, Storm Sewage Overflow, Queens Park, Wrexham, Wales Authority: Environment Agency, Welsh Region Catchment Area: Not Supplied Reference: Cm0109701 Permit Version: 1 Effective Date: 26th July 1966 Issued Date: 26th July 1966 Revocation Date: 29th October 2002 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: River Gwenfro Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	926	1	334780 349370
17	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Cso Near Minafon Queens Park Wrexh, Queens Park Wrexham Authority: Environment Agency, Welsh Region Catchment Area: Not Given Reference: CG0346601 Permit Version: 1 Effective Date: 12th August 1994 Issued Date: 12th August 1994 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Gwenfro Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	979	1	335050 349770
	Nearest Surface Water Feature	A13SE (SE)	0	-	335811 348793

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Storm Overflow Location: Abenbury Fields Authority: Environment Agency, Welsh Region Pollutant: Agricultural: Silage Liquor Note: Weather Incident Date: 31st July 1991 Incident Reference: 3101 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	0	1	335700 348940
19	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Storm Overflow Location: Abenbury Fields Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Emergency Overflow Incident Date: 21st September 1991 Incident Reference: 2029 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	284	1	335325 348935
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Five Fords Stw Authority: Environment Agency, Welsh Region Pollutant: Chemicals - Other Organic Note: Not Supplied Incident Date: 31st July 1996 Incident Reference: 29258 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	529	1	336300 348400
21	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewage Treatment Works Location: Five Fords Sdw Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Blocked Sewer Incident Date: 1st April 1996 Incident Reference: 27776 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	547	1	336200 348300
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Five Fords Sdw Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Blocked Sewer Incident Date: 1st April 1996 Incident Reference: 27776 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	551	1	336200 348295
22	Pollution Incidents to Controlled Waters Property Type: Council Premises Location: Abenbury Fields Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Blocked Sewer Incident Date: 1st July 1991 Incident Reference: 2902 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	609	1	335001 349001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Pollution Incidents to Controlled Waters Property Type: Road (Lost Load) Location: Cefndra, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Accidental Spillage/Leakage Incident Date: 1st February 1992 Incident Reference: 3544 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	703	1	335300 349600
24	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Surface Runoff Location: 1 Tuttle Street, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Vandalism Incident Date: 20th September 1995 Incident Reference: 25948 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	794	1	335300 349700
25	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Cefn Park Farm, Llwynknotia Cefn Road, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Fire water / Foam Note: Emergency Overflow Incident Date: 25th May 1997 Incident Reference: 32344 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	820	1	335800 349800
26	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Rear Of, Glan Yr Afon Cottage Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Afon Clywedog Incident Date: 19th March 1998 Incident Reference: 35143 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	861	1	336700 348400
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Kings Mill, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Unknown; River Gwenfro Incident Date: 26th July 1998 Incident Reference: 36263 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	878	1	334800 349300
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Kings Mill, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Unknown; River Gwenfro Incident Date: 19th July 1998 Incident Reference: 36228 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	909	1	334765 349295

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Plas Noble Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Not Supplied Incident Date: 18th April 1991 Incident Reference: 2609 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	893	1	334890 349490
29	Pollution Incidents to Controlled Waters Property Type: Warehouses Location: Mojos Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 16th April 1991 Incident Reference: 2632 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	899	1	334800 349350
30	Pollution Incidents to Controlled Waters Property Type: Road (Lost Load) Location: Prince Charles, Road Queenspark, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Road Run-Off Note: Accidental Spillage/Leakage Incident Date: 8th October 1995 Incident Reference: 26233 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A11NE (W)	909	1	334700 349000
31	Pollution Incidents to Controlled Waters Property Type: Warehouses Location: Queensferry Industrial Estate, QUEENSFERRY Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Accidental Spillage/Leakage Incident Date: 13th September 1991 Incident Reference: 3209 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A16SE (W)	940	1	334700 349200
32	Pollution Incidents to Controlled Waters Property Type: Land Location: Mojo, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Foam/Soap Suds Note: Not Supplied Incident Date: 16th April 1991 Incident Reference: 2306 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	970	1	334800 349495
32	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Ennos Packaging, Queensway Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 28th December 1991 Incident Reference: 3606 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	972	1	334800 349500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	Pollution Incidents to Controlled Waters Property Type: Council Premises Location: Queenspark, Pumping Station Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Weather Incident Date: 14th December 1994 Incident Reference: 22045 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Burst Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A16SE (W)	971	1	334700 349300
	River Quality Name: Clywedog GQA Grade: River Quality B Reach: O/F 5 Fords Stw-Conf.Gwenfro Kings Mill Estimated Distance (km): 2.2 Flow Rate: Flow less than 1.25 cumecs Flow Type: River Year: 2000	A13SW (SW)	108	1	335578 348748
	River Quality Name: Clywedog GQA Grade: River Quality B Reach: Conf.Redwither Bk. - O/F Five Fords Stw Estimated Distance (km): 4.8 Flow Rate: Flow less than 1.25 cumecs Flow Type: River Year: 2000	A9NW (SE)	463	1	336155 348371
	River Quality Name: Gwenfro GQA Grade: River Quality C Reach: Conf.Clywedog - Willow Road Wrexham Estimated Distance (km): 2.4 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A17SW (NW)	734	1	335061 349450
	River Quality Name: Clywedog GQA Grade: River Quality A Reach: Conf.Gwenfro -Conf.Black Bk.Erddig Pk Estimated Distance (km): 2.9 Flow Rate: Flow less than 1.25 cumecs Flow Type: River Year: 2000	A11NE (W)	923	1	334686 348992
34	River Quality Biology Sampling Points Name: Clywedog (Dee) Reach: Confluence Redwither Bk. - Outfall Five Fords Sewage Treatment Works Estimated Distance: 4.80 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 1995 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2000 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2002 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2003 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2008 GQA Grade: River Quality Biology GQA Grade B - Good	A9NW (SE)	464	1	336200 348400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	River Quality Biology Sampling Points Name: Clywedog (Dee) Reach: Outfall 5 Fords Sewage Treatment Works - Confluence Gwenfro Kings Mill Estimated Distance: 2.20 Positional Accuracy: Located by supplier to within 100m Year: 1990 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 1995 GQA Grade: River Quality Biology GQA Grade A - Very Good Year: 2000 GQA Grade: River Quality Biology GQA Grade C - Fairly Good Year: 2002 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2003 GQA Grade: River Quality Biology GQA Grade Not Supplied Year: 2004 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2005 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2006 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2007 GQA Grade: River Quality Biology GQA Grade B - Good Year: 2008 GQA Grade: River Quality Biology GQA Grade B - Good	A16SE (W)	940	1	334700 349200
36	River Quality Chemistry Sampling Points Name: Clywedog Reach: Confluence Redwither Brook To Overflow Five Fords Sewage Treatment Works Estimated Distance: 4.80 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A9NE (SE)	850	1	336710 348450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	River Quality Chemistry Sampling Points Name: Clywedog Reach: Outfall 5 Fords Sewage Treatment Works To Confluence Gwenfro Kings Mill Estimated Distance: 2.20 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade D - Fair Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A9NE (SE)	850	1	336710 348450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	River Quality Chemistry Sampling Points Name: Gwenfro Reach: Confluence River Clywedog To Willow Road Wrexham Estimated Distance: 2.40 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade F - Bad Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade E - Poor Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied	A11NE (W)	907	1	334720 349140

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	River Quality Chemistry Sampling Points Name: Clywedog Reach: Confluence River Gwenfro To Confluence Black Brook Erddig Pk Estimated Distance: 2.90 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A11NE (W)	921	1	334700 349110
38	Substantiated Pollution Incident Register Authority: Environment Agency Wales, North Area Incident Date: 10th April 2001 Incident Reference: 2707 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable : Other	A12NE (NW)	185	1	335430 349007
	Groundwater Vulnerability Geological Classification: Minor Aquifer (Variably permeable) - These can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability including unconsolidated deposits. Although not producing large quantities of water for abstraction, they are important for local supplies and in supplying base flow to rivers Soil Classification: Soils of High Leaching Potential (H2) - Deeps, permeable, coarse textured solids which readily transmit a wide range of pollutants because of their rapid drainage and low attenuation potential Map Sheet: Sheet 16 West Cheshire Scale: 1:100,000	A13SE (S)	0	1	335804 348680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 16 West Cheshire Scale: 1:100,000	A13NW (NW)	0	1	335672 348928
	Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Boundary Accuracy: As Supplied	A13NW (W)	38	1	335595 348871
	Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Boundary Accuracy: As Supplied	A13NW (W)	38	1	335590 348861
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Historical Landfill Sites Licence Holder: Moler Products Limited Location: Wrexham, Adenbury Name: Abenbury Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14767 First Input Date: 1st December 1947 Last Input Date: 31st December 1983 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: -9999 Regis Ref: Not Supplied WRC Ref: 6955/0001 BGS Ref: Not Supplied Other Ref: WMBC L/16	A12NW (W)	538	1	335080 349060
40	Historical Landfill Sites Licence Holder: Wrexham Borough Council Location: Rear Of Benjamin Road, Queens Park Name: The Dunks 3 Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14263 First Input Date: 31st December 1970 Last Input Date: 31st December 1980 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: -9999 Regis Ref: Not Supplied WRC Ref: 6955/0056 BGS Ref: Not Supplied Other Ref: Not Supplied	A17SE (NW)	672	1	335157 349461
41	Historical Landfill Sites Licence Holder: Marshall Refractories Limited Location: Kings Mill, Wrexham Name: Marshall Refractories Limited off Abenbury Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14256 First Input Date: 31st December 1968 Last Input Date: 31st December 1987 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: -9999 Regis Ref: Not Supplied WRC Ref: 6955/0041 BGS Ref: Not Supplied Other Ref: WD/003	A17SW (NW)	775	1	334945 349360
42	Historical Landfill Sites Licence Holder: Wrexham Rural District Council Location: Wrexham, Clwyd Name: Bala Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14242 First Input Date: 30th September 1966 Last Input Date: 30th April 1971 Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Type: Special Waste EA Waste Ref: -9999 Regis Ref: Not Supplied WRC Ref: 6955/0004 BGS Ref: 104 Other Ref: Not Supplied	A17NE (NW)	920	1	335241 349812
43	Licensed Waste Management Facilities (Locations) Licence Number: 37130 Location: Abenbury, Wrexham, Clwyd, LL13 0PA Operator Name: United Utilities Green Energy Limited Operator Location: Not Supplied Authority: Environment Agency Wales, North Area Site Category: Treatment - Biological Licence Status: Surrendered Issued: 26th April 1995 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 16th September 2003 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	781	1	336426 348174

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	Licensed Waste Management Facilities (Locations) Licence Number: 37040 Location: Queensway Civic Amenity Site, Queensway, Wrexham, Clwyd, LL13 8UN Operator Name: 3 C Waste Ltd Operator Location: Not Supplied Authority: Environment Agency Wales, North Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Surrendered Issued: 1st October 1992 Last Modified: 10th December 2003 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 23rd June 2008 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	888	1	334885 349476
	Local Authority Landfill Coverage Name: Wrexham County Borough Council - Has supplied landfill data		0	2	341773 350094
45	Local Authority Recorded Landfill Sites Location: The Dunks 3, Queensway, Wrexham Reference: 6955/0056 Authority: Wrexham County Borough Council Last Reported Status: Closed Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A17SE (NW)	674	2	335156 349463
46	Local Authority Recorded Landfill Sites Location: Marshall Refractories Ltd, King'S Mills, Wrexham Reference: 6955/0041 Authority: Wrexham County Borough Council Last Reported Status: Closed Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A17SW (NW)	779	2	334940 349359
47	Local Authority Recorded Landfill Sites Location: Glan Gors, Bala Road, Wrexham Reference: 6955/0004 Authority: Wrexham County Borough Council Last Reported Status: Closed Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A17NE (NW)	916	2	335241 349807
48	Registered Landfill Sites Licence Holder: Maelor Products Ltd Licence Reference: L16 Site Location: Abenbury Works, Kingsmills, Wrexham, Clwyd Licence Easting: 335000 Licence Northing: 349200 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1977 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Clay Waste Fired Or Unfired Waste Offcuts/Dust From Insul'G Bricks	A12NE (NW)	405	1	335228 349098

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	Registered Landfill Sites Licence Holder: Moler Products Licence Reference: L16 Site Location: Abenbury Works, Kingsmills, Wrexham, Clwyd Licence Easting: 335000 Licence Northing: 349200 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1977 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Waste Offcuts/Dust Ex Insulating Bricks	A12NE (NW)	405	1	335228 349098
50	Registered Landfill Sites Licence Holder: Jones Brothers Ruthin (Holding) Co Ltd Licence Reference: L36 Site Location: Kingsmill, Bryn Y Grog Hill, Wrexham, Clwyd Licence Easting: 334650 Licence Northing: 349150 Operator Location: Denbigh Hill, Denbigh, Denbighshire Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st December 1981 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Rubble Subsoil	A11NE (W)	878	1	334747 349126

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	Registered Waste Transfer Sites Licence Holder: Hlc Wrexham Ltd Licence Reference: NOW-503-L (L73) Site Location: Queensway Civic Amenity Site, Wrexham, Clwyd Operator Location: 4 Churchill Court, 58 Station Road, North Harrow, Middlesex, Ha2 7sa Authority: Environment Agency Wales, North Area Site Category: Civic Amenity Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 1st October 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Household & Commercial Waste Max.Waste Permitted By Licence Waste Lub'N Oil From Petrol/Diesel Eng Prohibited Waste: Agricultural Wastes Ammonia Animal Carcasses, Offal Cadmium Compounds Carcinogenic/Mutagenic/Teratogenic Sub Clinical - As In Control.Waste Regs'92 Cyanide Compounds Drummed Waste Fluorine Compounds Industrial Wastes Likely Danger Arise Combust'N/Fume/Gas Liquid Waste N.O.S. List I Substances In Eec Dir. 80/68 Mercury Compounds Nitrate Compounds Organohalogens Organometallic Cpds Organophosphorus Cmpds Organosilicon Cpds Organosulphur Cmpds Pcbs/Pcts/Naphthalenes Percussive/Explosive/Similar Waste Poisonous, Noxious, Polluting Wastes Pressurised/Liquified Gas Spec.Waste (Epa'90:S62/1996 Regs)N.O.S Special Forms Of Asbestos Sub'S Control. Radioactive Subs Act'60 Sub'S Deleterious To Groundwater Sub'S In E.P(Prosc.Proc/Subs) Regs '91 Sulphide Compounds Waste N.O.S. Waste With Viable Pathogenic Organisms	A17SW (NW)	909	1	334870 349490
52	Registered Waste Treatment or Disposal Sites Licence Holder: Hyder Industrial Ltd Licence Reference: NOW-523-L (L85) Site Location: Five Fords S.T.Works, Cefn Road, Marchwiel, Wrexham, Clwyd Operator Location: Alexandra Gate, Rover Road, CARDIFF, South Glamorgan, CF2 2UE Authority: Environment Agency Wales, North Area Site Category: Treatment - Biological Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: Some restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 1st April 1995 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Max.Waste Permitted By Licence Specified Waste From Local Company Prohibited Waste: Medical, Surgical, Veterinary Wastes Percussive/Explosive/Similar Waste Red List Substances (76/464/Eec) Spec.Waste (Epa'90:S62/1996 Regs) Sub'S Control. Radioactive Subs Act'60 Waste In Drums Waste N.O.S. Waste With Flash Pt < 32 C	A9NW (SE)	635	1	336200 348200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	BGS Recorded Mineral Sites Site Name: Abenbury Brick Works Location: Kings Mills, Wrexham Source: British Geological Survey, National Geoscience Information Service Reference: 18897 Type: Underground And Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Salop Formation Commodity: Fireclay Positional Accuracy: Located by supplier to within 10m	A12NW (W)	593	3	335025 349065
53	BGS Recorded Mineral Sites Site Name: Abenbury Brick Works Location: Kings Mills, Wrexham Source: British Geological Survey, National Geoscience Information Service Reference: 18897 Type: Underground And Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12NW (W)	593	3	335025 349065
54	BGS Recorded Mineral Sites Site Name: Kingsmills Brick Works Location: Kings Mills, Wrexham Source: British Geological Survey, National Geoscience Information Service Reference: 18896 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciolacustrine Deposits, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	745	3	334944 349295
55	BGS Recorded Mineral Sites Site Name: Abenbury Location: Kings Mills, Wrexham, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 9066 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous, Permian Geology: Salop Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12NW (W)	784	3	334850 349155
	BGS 1:625,000 Solid Geology Description: Westphalian and Stephanian, undivided, of Barren Red lithology	A19SE (NE)	0	3	336647 349259
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	(S)	0	4	335767 347000
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (E)	0	-	336000 348861
	Potential for Collapsible Ground Stability Hazards No Hazard				
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	3	335700 348925
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	3	335700 348925
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	32	3	335600 348861

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	99	3	335550 348850
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	157	3	335925 349100
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	232	3	335475 348675
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	3	335700 348925
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	3	335700 348925
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	3	335650 348861
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	32	3	335600 348861
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	34	3	335575 348925
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	50	3	335600 348850
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	57	3	335750 349025
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	82	3	335725 348650
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	83	3	335525 348950
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	84	3	335675 348675
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	87	3	335600 348750
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	90	3	335575 348800
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	94	3	335700 348650
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	96	3	335650 348675
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	98	3	335600 348725
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	106	3	335675 348650
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	118	3	335800 348600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	128	3	335675 348625
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	130	3	335625 348650
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	133	3	335475 348950
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	138	3	335700 348600
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	140	3	335475 349000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	144	3	335600 348650
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	145	3	335575 348675
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	154	3	335550 348700
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12NE (W)	186	3	335425 348900
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	232	3	335475 348675
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	3	335625 348925
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	3	335700 348925
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	3	335700 348925
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	11	3	335600 348925
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	32	3	335600 348861
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	48	3	335750 348675
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	93	3	335775 348625
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	99	3	335550 348850
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	157	3	335925 349100
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	3	335625 348861
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	3	335700 348925

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	3	335700 348925
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	157	3	335925 349100
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	159	3	336000 348625
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	232	3	335475 348675
	Radon Potential - Radon Affected Areas Affected Area: The property is in a radon affected area, as between 3 and 5% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	3	335750 348875
	Radon Potential - Radon Affected Areas Affected Area: The property is in a radon affected area, as between 5 and 10% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	3	335750 348875
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	3	335750 348875
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	3	335750 348875
	Shallow Mining Hazards No Hazard				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	Contemporary Trade Directory Entries Name: Skipless Waste Solutions Location: 9, Greenways, Wrexham, Clwyd, LL13 8JL Classification: Waste Disposal Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	412	-	335197 348981

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Cheshire West and Chester Council - Environmental Health Department Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department Wrexham County Borough Council - Public Protection Department	April 2009 August 2008 May 2010	Annually Not Applicable Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region	April 2010	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region Environment Agency - Welsh Region	May 2010 May 2010	Quarterly Quarterly
Integrated Pollution Controls Environment Agency - North West Region Environment Agency - Welsh Region	October 2008 October 2008	Not Applicable Not Applicable
Integrated Pollution Prevention And Control Environment Agency - North West Region Environment Agency - Welsh Region	April 2010 April 2010	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department Cheshire West and Chester Council - Environmental Health Department Wrexham County Borough Council - Environmental Health Department	December 2008 March 2010 November 2009	Not Applicable Annually Annual Rolling Update
Local Authority Pollution Prevention and Controls Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department Cheshire West and Chester Council - Environmental Health Department Wrexham County Borough Council - Environmental Health Department	December 2008 March 2010 November 2009	Not Applicable Annually Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department Cheshire West and Chester Council - Environmental Health Department Wrexham County Borough Council - Environmental Health Department	December 2008 March 2010 November 2009	Not Applicable Annually Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	February 2010	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Environment Agency - North West Region	July 2010 May 2010	Monthly Monthly
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Environment Agency - North West Region	July 2010 March 2010	Monthly Monthly
Registered Radioactive Substances Environment Agency - North West Region Environment Agency - Welsh Region	April 2010 April 2010	Quarterly Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	January 2010	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	January 2010	Annually
Substantiated Pollution Incident Register Environment Agency - North West Region - South Area Environment Agency Wales - North Area	April 2010 April 2010	Quarterly Quarterly

Agency & Hydrological	Version	Update Cycle
Water Abstractions Environment Agency - Welsh Region	April 2010	Quarterly
Water Industry Act Referrals Environment Agency - North West Region Environment Agency - Welsh Region	January 2010 January 2010	Quarterly Quarterly
Groundwater Vulnerability Environment Agency - Head Office	January 1999	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Source Protection Zones Environment Agency - Head Office	April 2010	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	March 2010	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	March 2010	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	March 2010	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	March 2010	Quarterly
Flood Defences Environment Agency - Head Office	March 2010	Quarterly

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - North West Region - South Area Environment Agency Wales - North Area	April 2010 April 2010	Quarterly Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region Environment Agency - Welsh Region	October 2008 October 2008	Not Applicable Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - South Area Environment Agency Wales - North Area	April 2010 April 2010	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - South Area Environment Agency Wales - North Area	April 2010 April 2010	Quarterly Quarterly
Local Authority Landfill Coverage Cheshire County Council (now part of Cheshire East Council) - Environmental Planning Department Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department Wrexham County Borough Council	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Cheshire County Council (now part of Cheshire East Council) - Environmental Planning Department Wrexham County Borough Council Chester City Council (now part of Cheshire West and Chester Council) - Environmental Health Department	February 2005 June 2003 May 2000	Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - North West Region - South Area Environment Agency Wales - North Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - South Area Environment Agency Wales - North Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - South Area Environment Agency Wales - North Area	March 2003 March 2003	Not Applicable Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	May 2010	Bi-Annually
Explosive Sites Health and Safety Executive	January 2009	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Wrexham County Borough Council - Planning Department Cheshire County Council (now part of Cheshire East Council) - Planning Department Cheshire West and Chester Council - Planning Department Chester City Council (now part of Cheshire West and Chester Council)	December 2009 July 2008 March 2010 October 2008	Annual Rolling Update Annual Rolling Update Annually Not Applicable
Planning Hazardous Substance Consents Wrexham County Borough Council - Planning Department Cheshire County Council (now part of Cheshire East Council) - Planning Department Cheshire West and Chester Council - Planning Department Chester City Council (now part of Cheshire West and Chester Council)	December 2009 July 2008 March 2010 October 2008	Annual Rolling Update Annual Rolling Update Annually Not Applicable

Geological	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2010	Bi-Annually
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	January 2006	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural and Mining Cavities Peter Brett Associates	May 2010	Bi-Annually
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2009	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2009	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2009	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2009	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2009	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2009	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	May 2007	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	May 2007	As notified
Shallow Mining Hazards British Geological Survey - National Geoscience Information Service	August 2002	Not Applicable
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	March 2010	Quarterly
Fuel Station Entries Catalist Ltd - Experian Catalist	April 2010	Quarterly

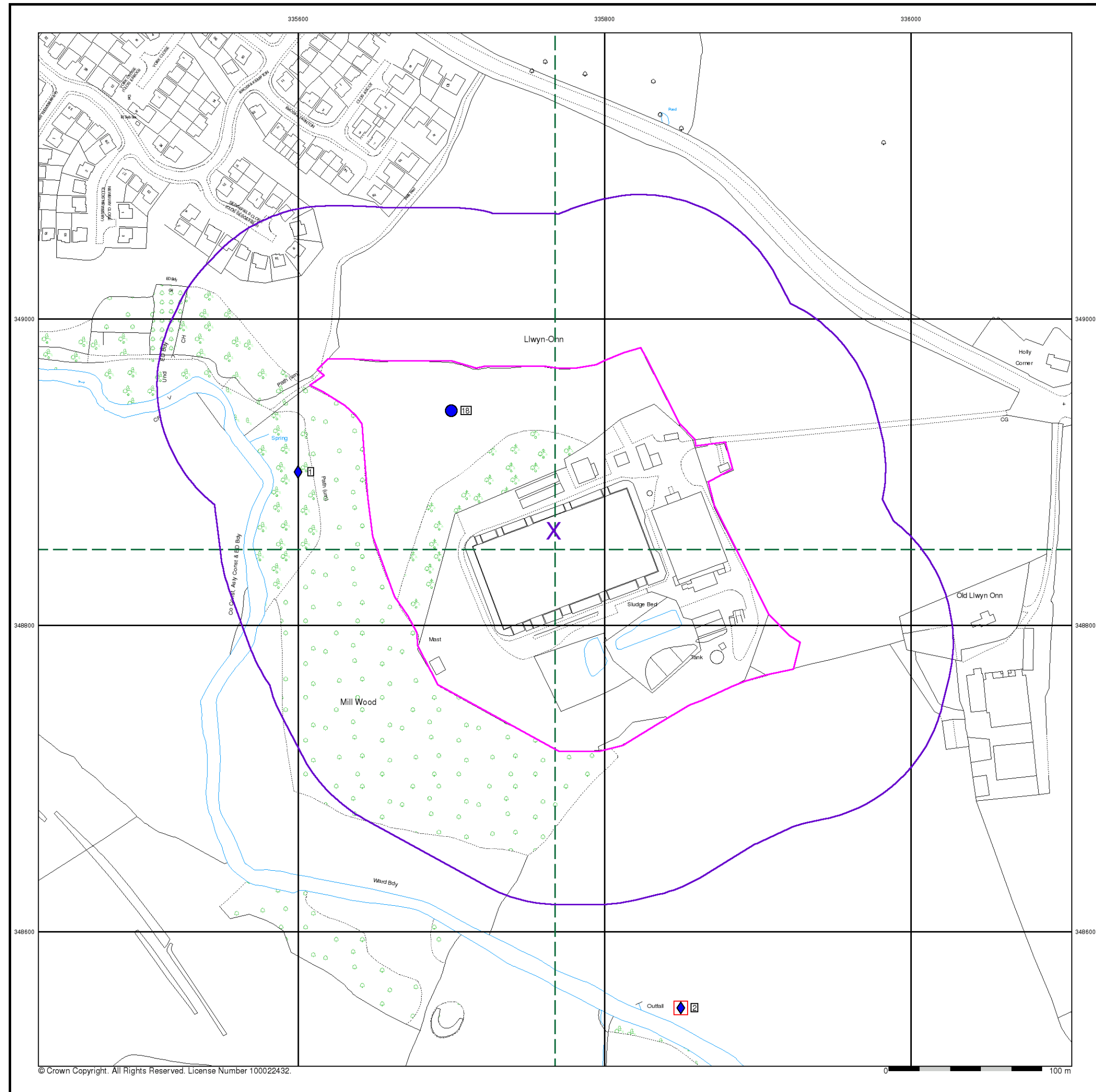
Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt Chester City Council (now part of Cheshire West and Chester Council)	March 2010	As notified
Areas of Unadopted Green Belt Chester City Council (now part of Cheshire West and Chester Council)	March 2010	As notified
Areas of Outstanding Natural Beauty Countryside Council for Wales Natural England	February 2010 July 2010	Bi-Annually Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural England	August 2008 July 2010	Annually Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England Wrexham County Borough Council	December 2009 February 2010	Bi-Annually Bi-Annually
Marine Nature Reserves Countryside Council for Wales	February 2010	Bi-Annually
National Nature Reserves Countryside Council for Wales	February 2010	Bi-Annually
National Parks The National Assembly for Wales - GI Services (Department of Planning & Countryside) Natural England	August 2008 July 2010	Annually Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2009	Not Applicable
Nitrate Vulnerable Zones The National Assembly for Wales - GI Services (Department of Planning & Countryside)	October 2005	Annually
Ramsar Sites Countryside Council for Wales	February 2010	Bi-Annually
Sites of Special Scientific Interest Countryside Council for Wales	February 2010	Bi-Annually
Special Areas of Conservation Countryside Council for Wales	February 2010	Bi-Annually
Special Protection Areas Countryside Council for Wales	February 2010	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Countryside Council for Wales	 CYNGOR CEFN GWLAD CYMRU COUNTRYSIDE COUNCIL FOR WALES
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	Wrexham County Borough Council Lampet Street, Guildhall, Wrexham, Clwyd, LL11 1WL	Telephone: 01978 292000 Fax: 01978 292502 Website: www.wrexham.gov.uk
3	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	The Coal Authority - Mining Report Service 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
5	Countryside Council for Wales Plas Penrhose, Fford Penrhos, Bangor, Gwynedd, LL57 2LQ	Telephone: 01248 385500 Fax: 01248 355782
-	Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	Landmark Information Group Limited The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.





General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location
- Pylon
- Overhead Transmission Line

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral
- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

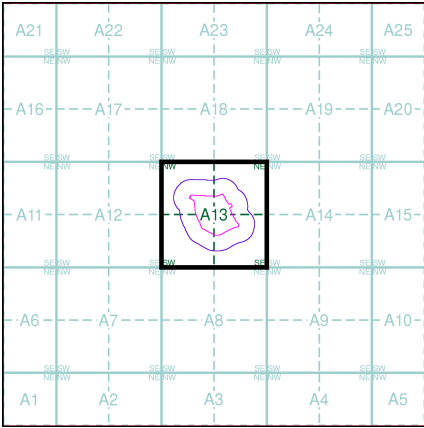
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment A13



Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Plot Buffer (m): 100

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



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A Landmark Information Group Service v40.0 09-Jul-2010 Page 1 of 1

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

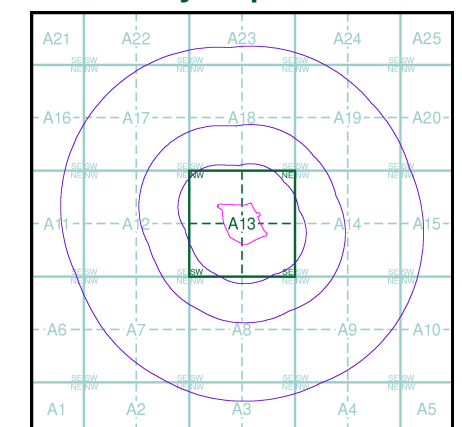
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A

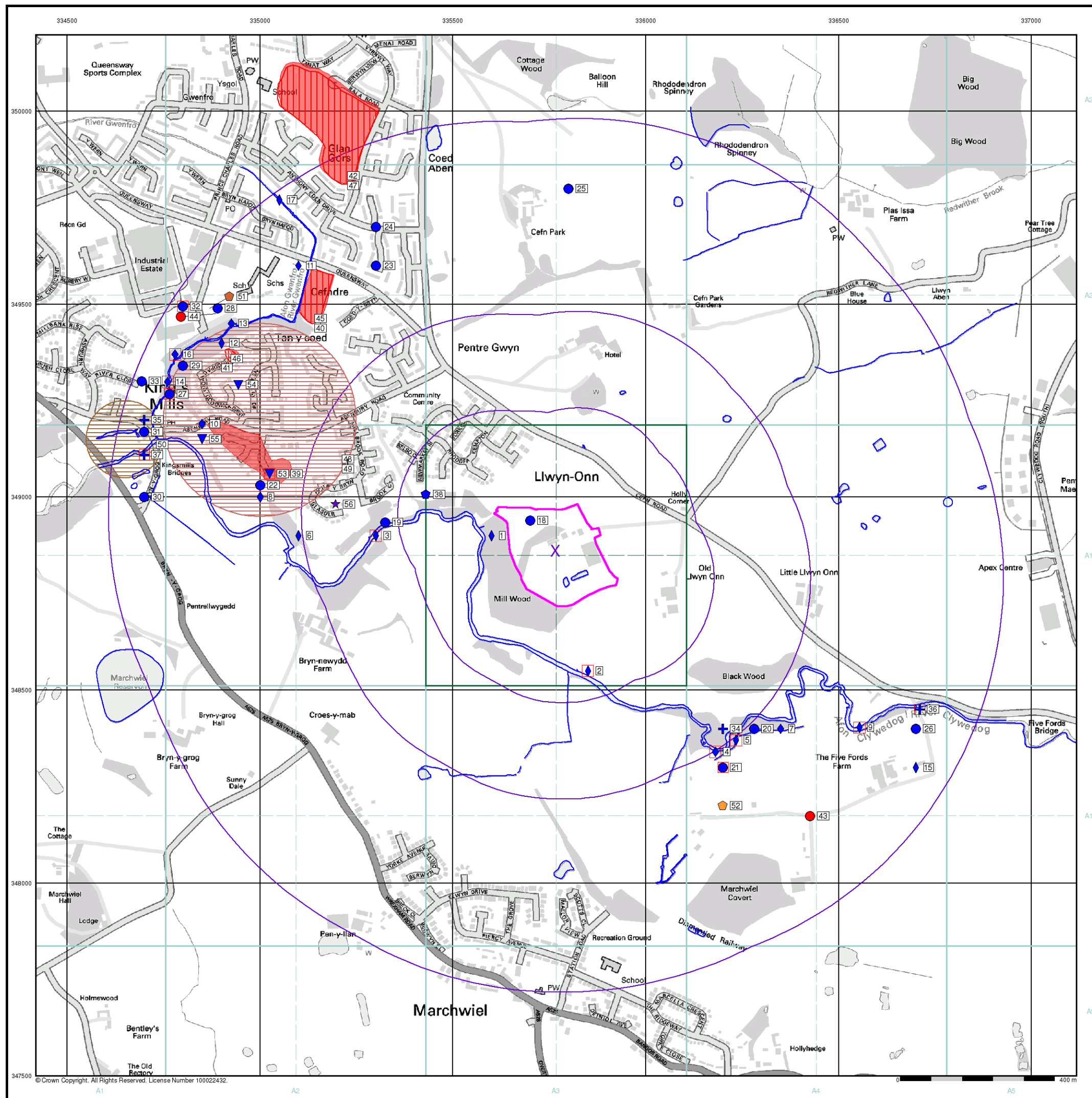


Order Details

Order Number: 31821026_1_1
 Customer Ref: 121620
 National Grid Reference: 335770, 348860
 Slice: A
 Site Area (Ha): 5.32
 Search Buffer (m): 1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



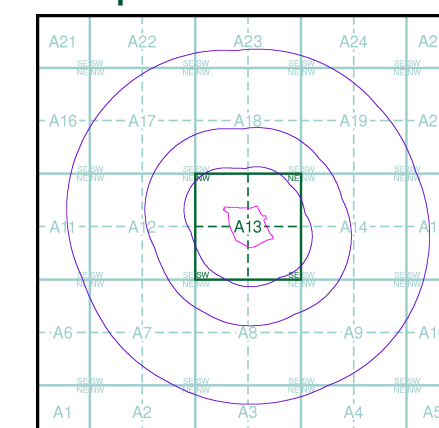
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A

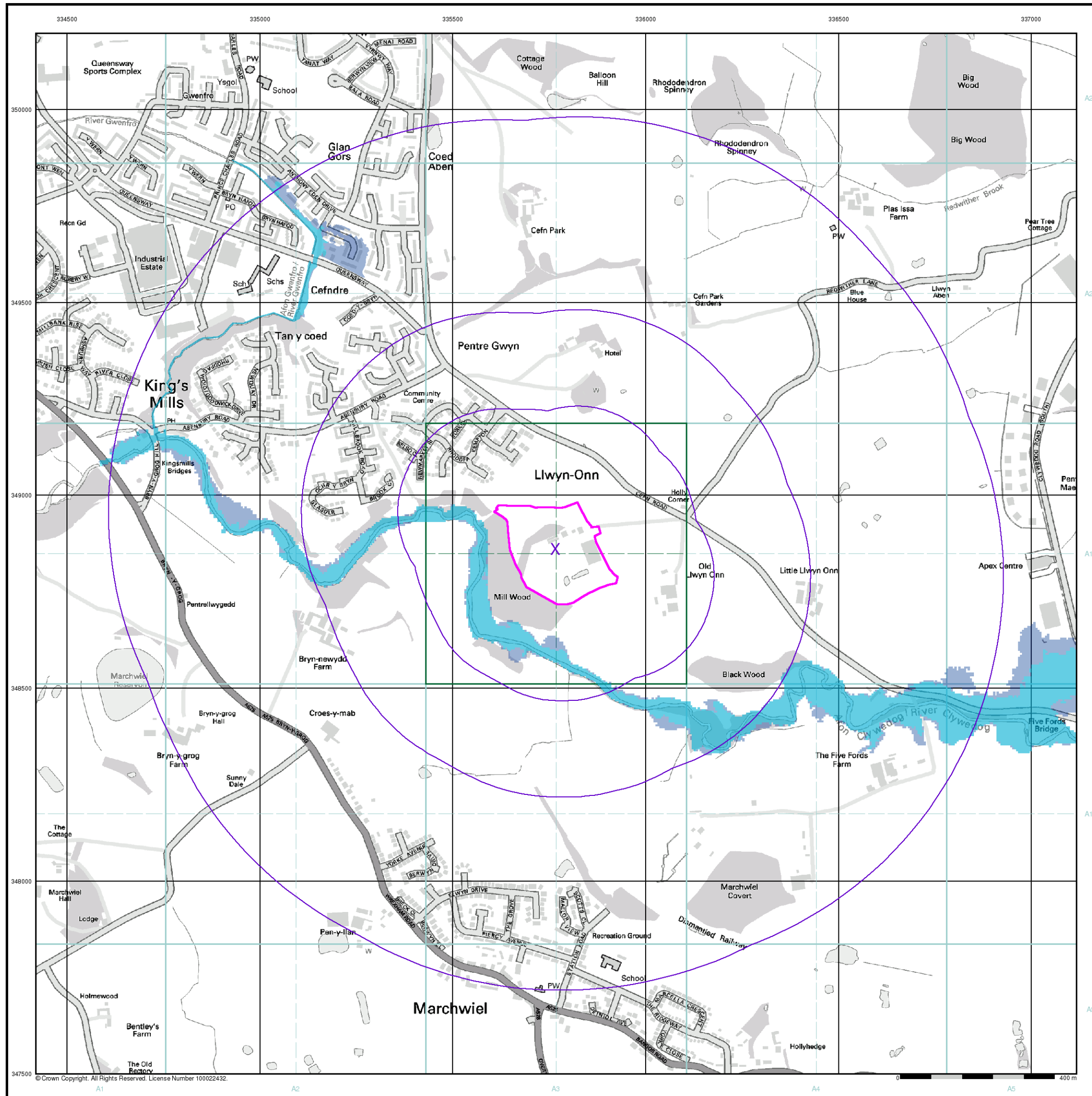


Order Details

Order Number: 31821026_1_1
 Customer Ref: 121620
 National Grid Reference: 335770, 348860
 Slice: A
 Site Area (Ha): 5.32
 Search Buffer (m): 1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Map ID
-  Several of Type at Location

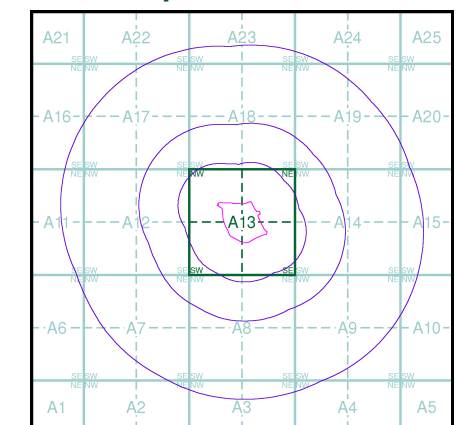
Agency and Hydrological (Boreholes)

-  BGS Borehole Depth 0 - 10m
-  BGS Borehole Depth 10 - 30m
-  BGS Borehole Depth 30m +
-  Confidential
-  Other

For Borehole information please refer to the Borehole datasheet which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A

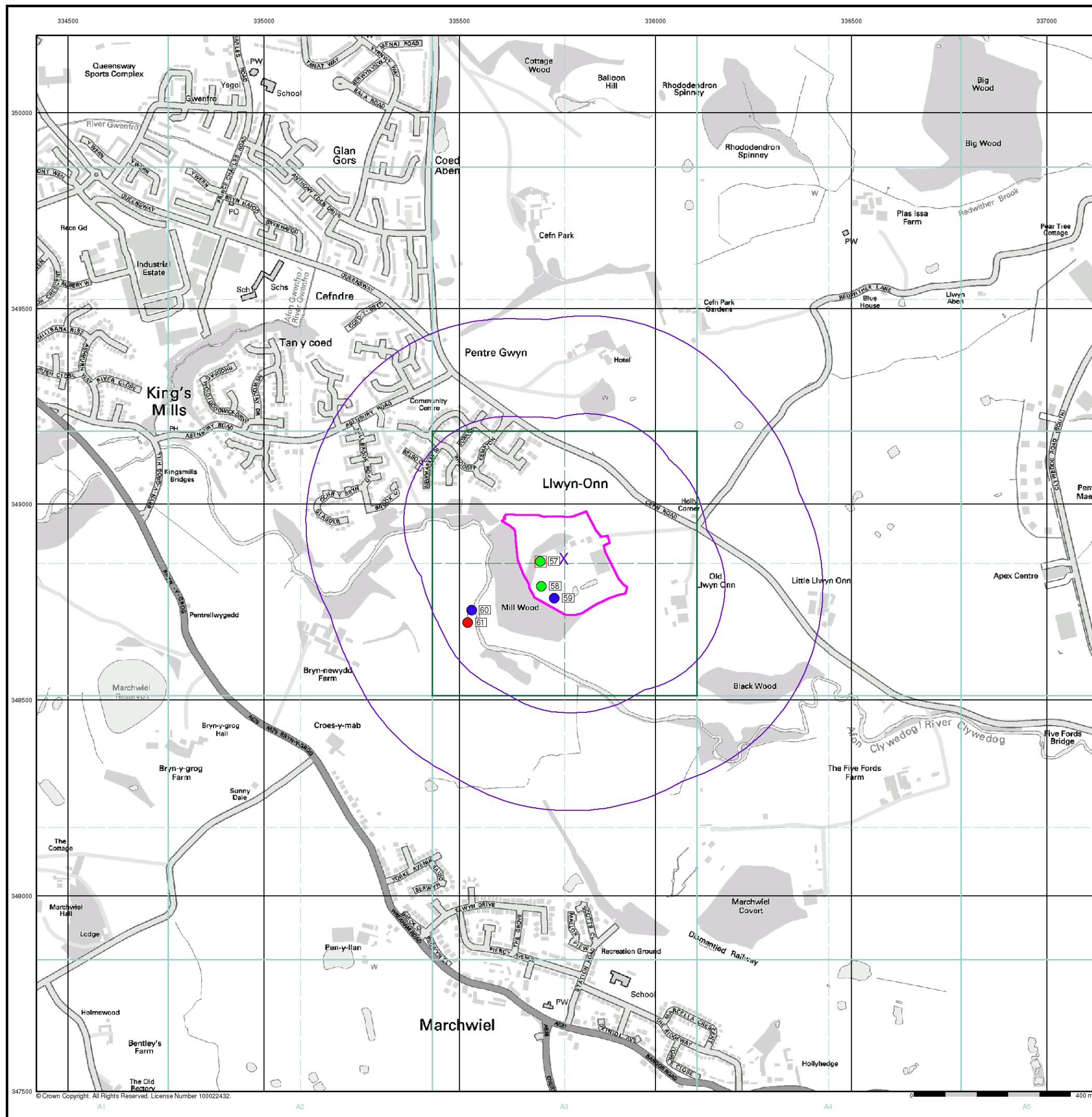


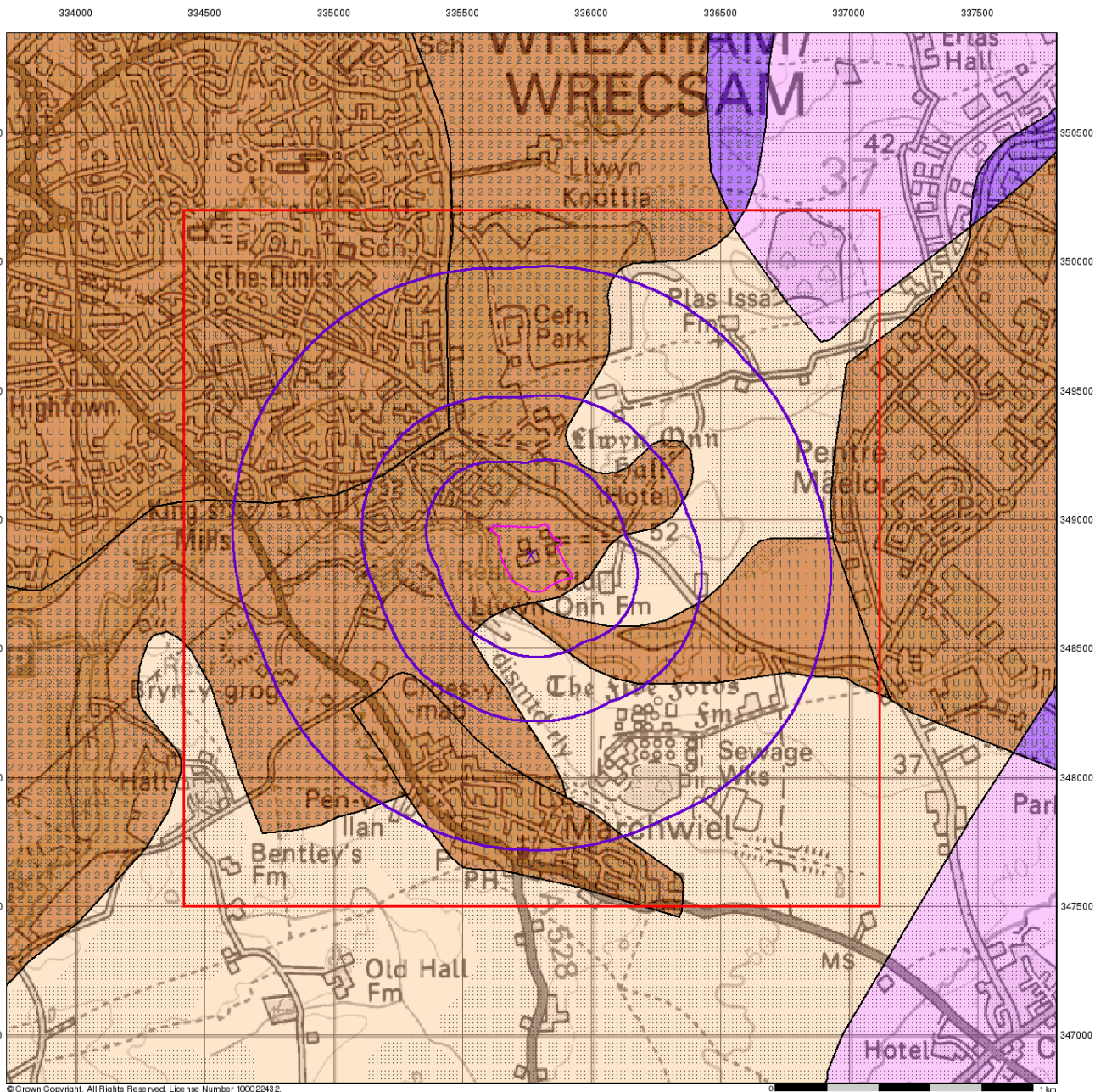
Order Details

Order Number: 31821026_1_1
 Customer Ref: 121620
 National Grid Reference: 335770, 348860
 Slice: A
 Site Area (Ha): 5.32
 Search Buffer (m): 1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham





Groundwater Vulnerability

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

Major Aquifer
(Highly Permeable)

Minor Aquifer
(Variably Permeable)

Non Aquifer
(Negligibly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

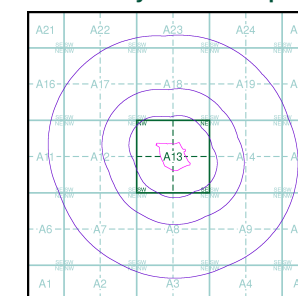
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice A



Order Details

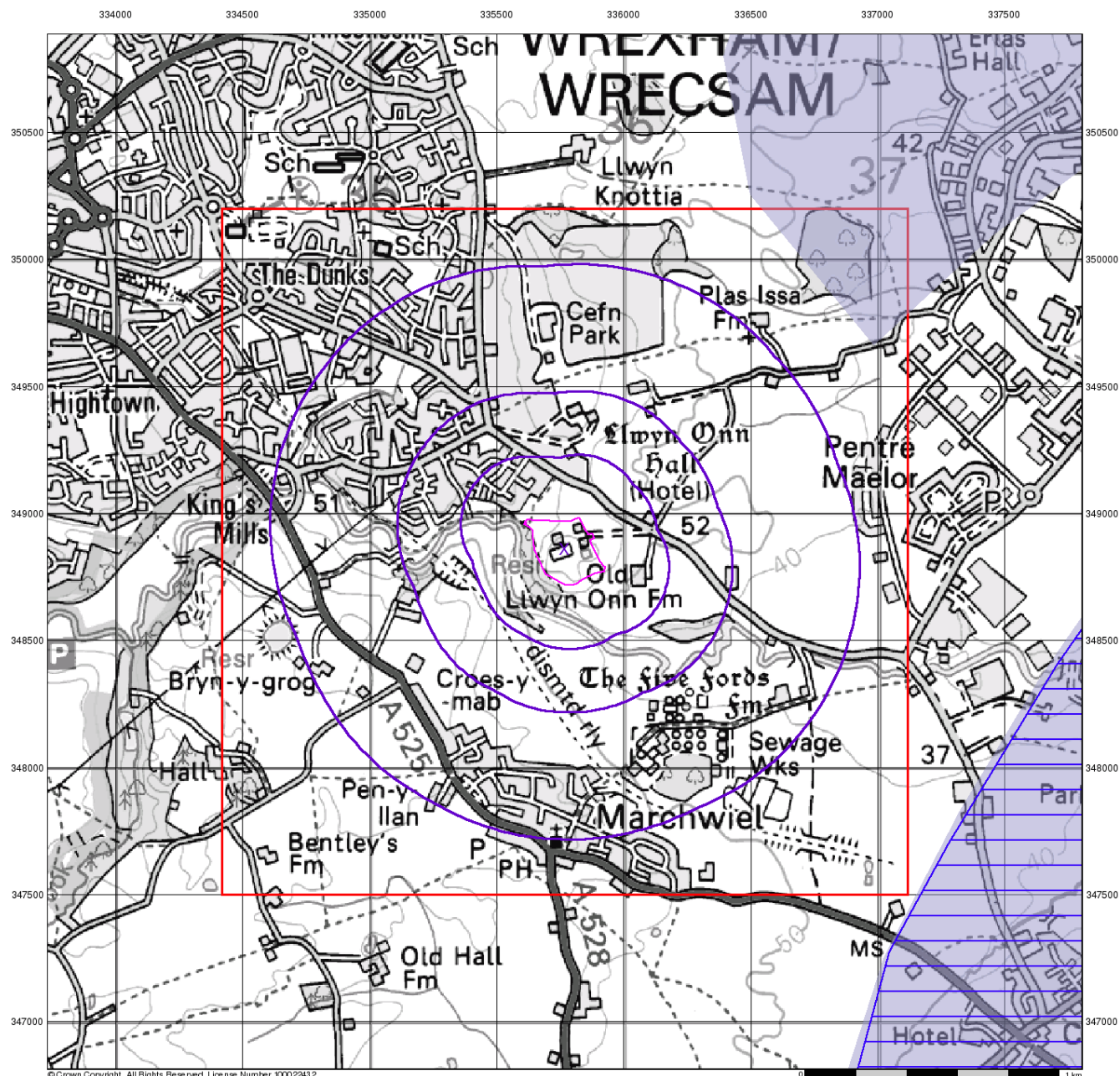
Order Number: 31821026_1_1
 Customer Ref: 121620
 National Grid Reference: 335770, 348860
 Slice: A
 Site Area (Ha): 5.32
 Search Buffer (m): 1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



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Source Protection Zones

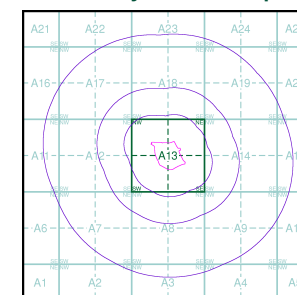
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



Order Details

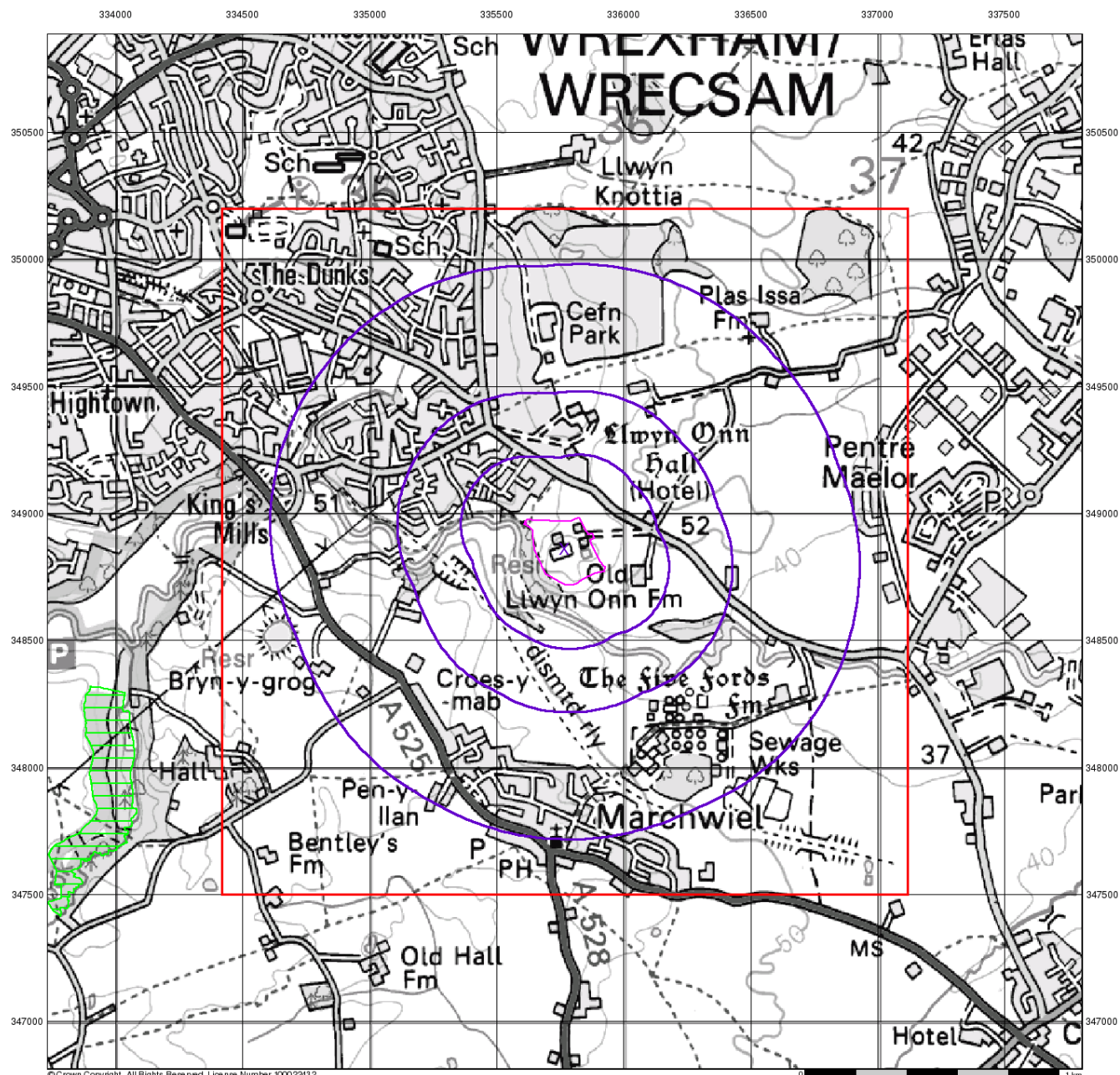
Order Number: 31821026_1_1
 Customer Ref: 121620
 National Grid Reference: 335770, 348860
 Slice: A
 Site Area (Ha): 5.32
 Search Buffer (m): 1000

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Sensitive Land Uses

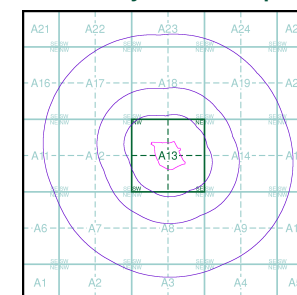
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 31821026_1_1
 Customer Ref: 121620
 National Grid Reference: 335770, 348860
 Slice: A
 Site Area (Ha): 5.32
 Search Buffer (m): 1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



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Geology 1:10,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WMGR	Infilled Ground	Artificial Deposit	Present Day - Present Day
	MGR	Made Ground (Undivided)	Artificial Deposit	Present Day - Present Day
	LSGR	Landscaped Ground (Undivided)	Unknown/Unclassified Entry	Present Day - Present Day

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay	Flandrian - Flandrian
	GLLD	Glaciolacustrine Deposits	Clay	Pleistocene - Pleistocene
	ALF	Alluvial Fan Deposits	Sand and Gravel	Quaternary - Quaternary
	GFDU	Glaciofluvial Deposits	Sand and Gravel	Quaternary - Quaternary
	TILL	Till	Diamicton	Quaternary - Quaternary
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	KNSF	Kinnerton Sandstone Formation	Sandstone	Scythian - Scythian
	SAL	Salop Formation	Sedimentary Rock Cycles, Coal Measure Type	Early Permian - Westphalian D
	SAL	Salop Formation	Mudstone, Sandstone and Conglomerate	Early Permian - Westphalian D
	SAL	Salop Formation	Mudstone	Early Permian - Westphalian D
	Fault			



Geology 1:10,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:10,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around a site. This mapping may be more up to date than previously published paper maps.

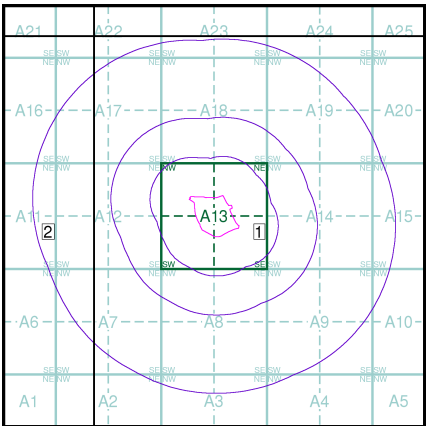
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page.

Please Note: Not all of the layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:10,000 Maps Coverage

Map ID:	1	Map ID:	2
Map Name:	SJ34NE	Map Name:	SJ34NW
Map Date:	1995	Map Date:	1996
Bedrock Geology:	Available	Bedrock Geology:	Available
Superficial Geology:	Available	Superficial Geology:	Available
Artificial Geology:	Available	Artificial Geology:	Available
Faults:	Available	Faults:	Available
Landslip:	Not Available	Landslip:	Available
Rock Segments:	Not Available	Rock Segments:	Available
Map ID:	SJ35SE	Map ID:	SJ35SW
Map Name:	Unknown	Map Name:	2000
Map Date:	Unknown	Map Date:	2000
Bedrock Geology:	Available	Bedrock Geology:	Available
Superficial Geology:	Available	Superficial Geology:	Available
Artificial Geology:	Available	Artificial Geology:	Available
Faults:	Available	Faults:	Available
Landslip:	Not Available	Landslip:	Available
Rock Segments:	Not Available	Rock Segments:	Available

Geology 1:10,000 Maps - Slice A

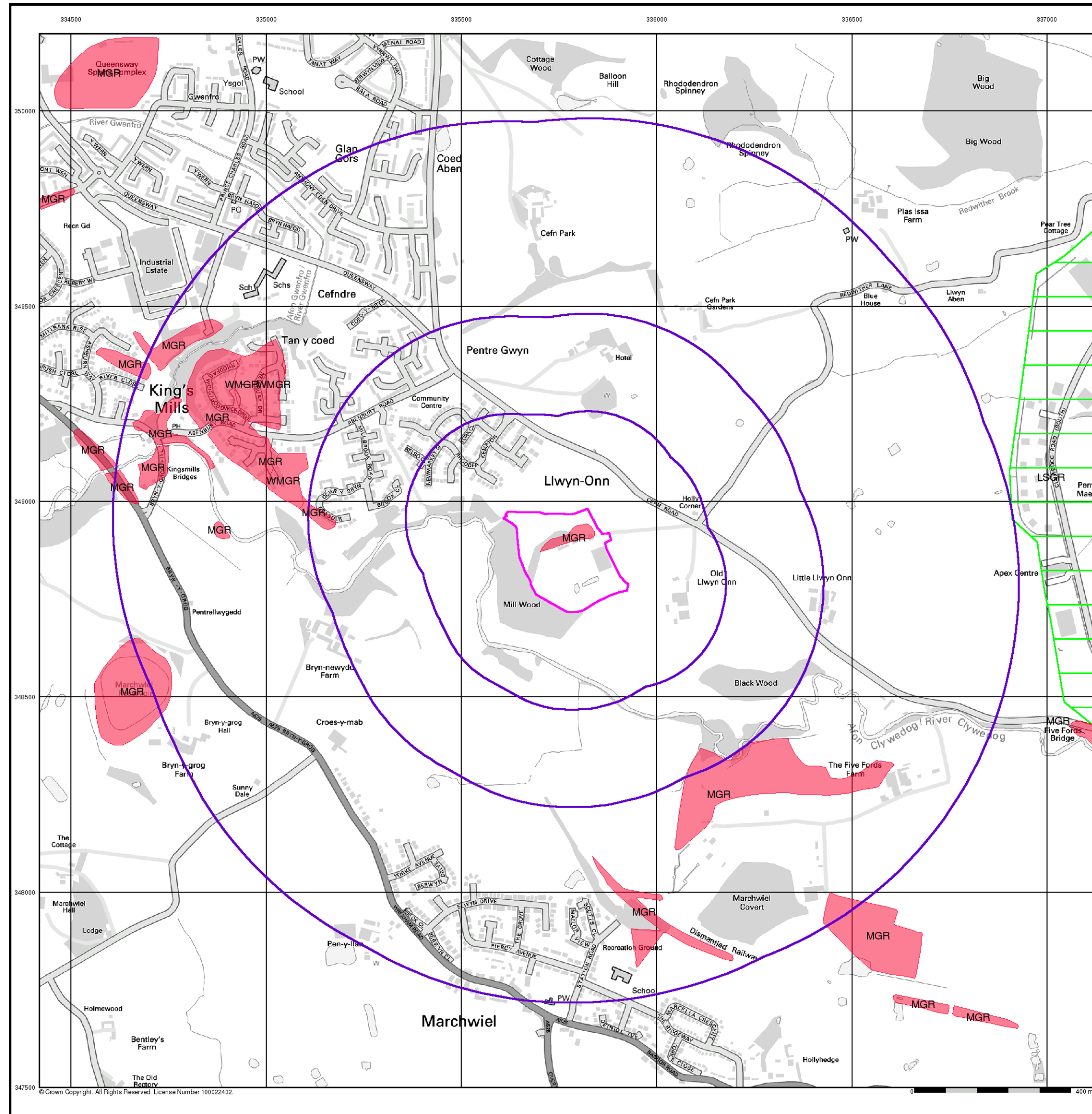


Order Details

Order Number:	31821026_1_1
Customer Ref:	121620
National Grid Reference:	335770, 348860
Slice:	A
Site Area (Ha):	5.32
Search Buffer (m):	1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



Artificial Ground and Landslip

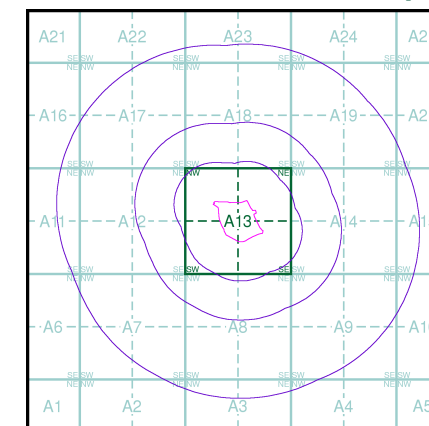
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes founded strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham

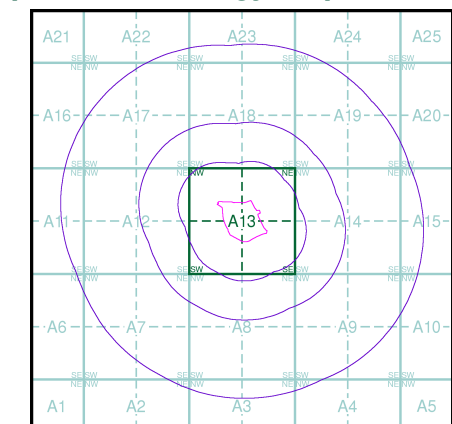
Superficial Geology

BGS 1:10,000 Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A

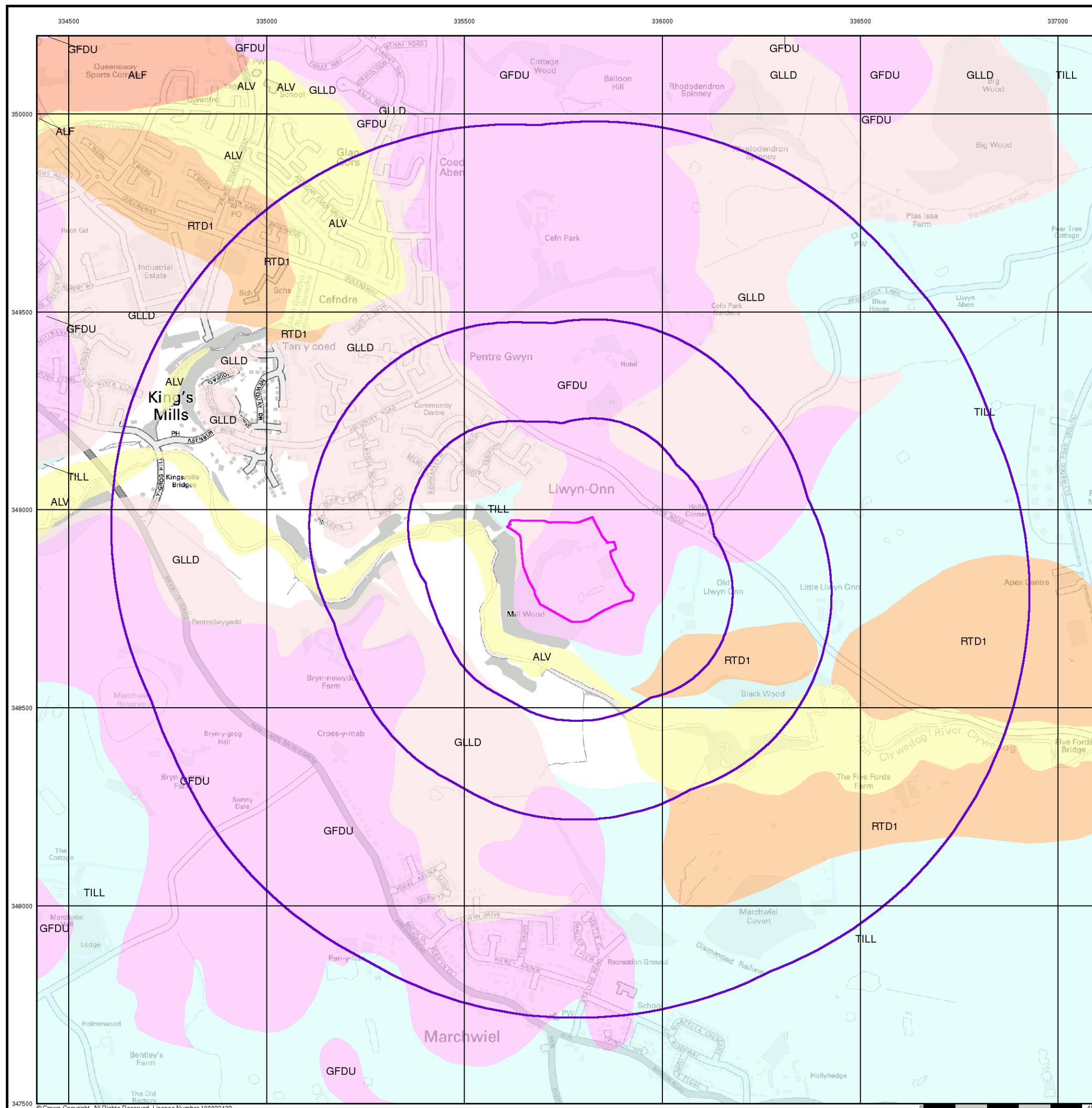


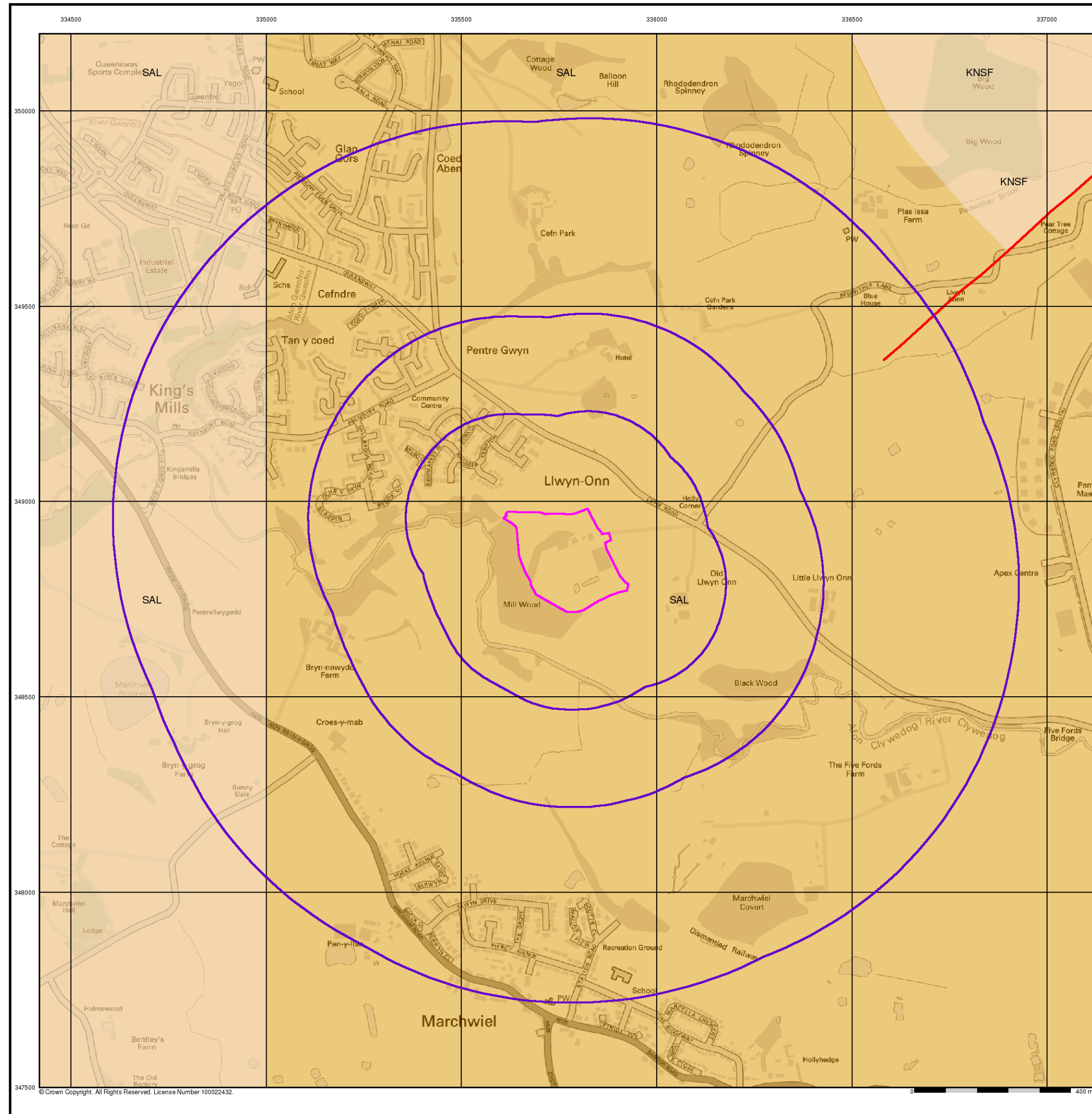
Order Details

Order Number: 31821026_1_1
 Customer Ref: 121620
 National Grid Reference: 335770, 348860
 Slice: A
 Site Area (Ha): 5.32
 Search Buffer (m): 1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham





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Bedrock and Faults

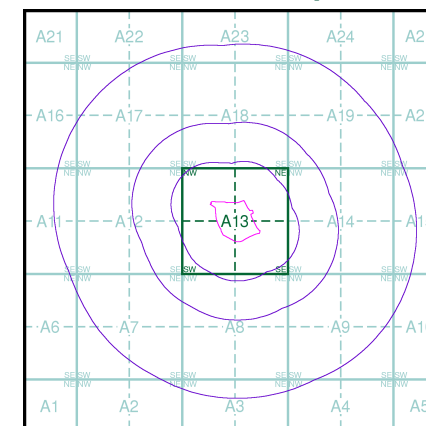
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults and thin beds mapped as lines such as coal seams and mineral veins. These are not restricted by age and could relate to features of any of the 1:10,000 geology datasets.

Bedrock and Faults Map - Slice A



Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

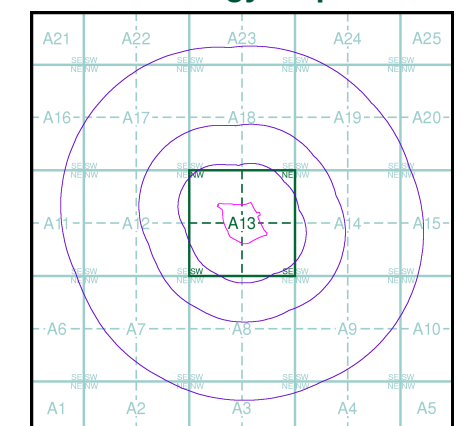
Additional Information

More information on 1:10,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A

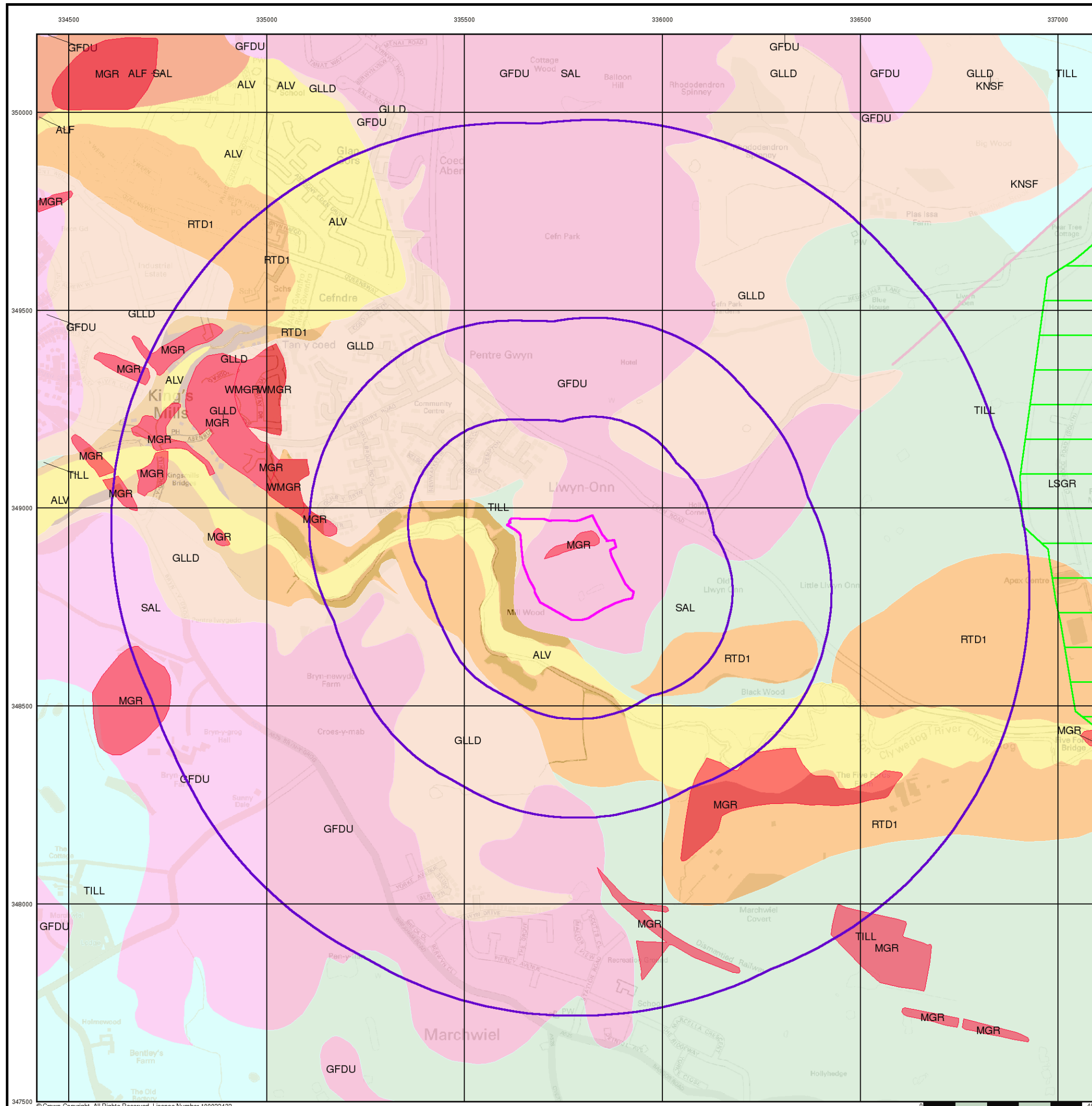


Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

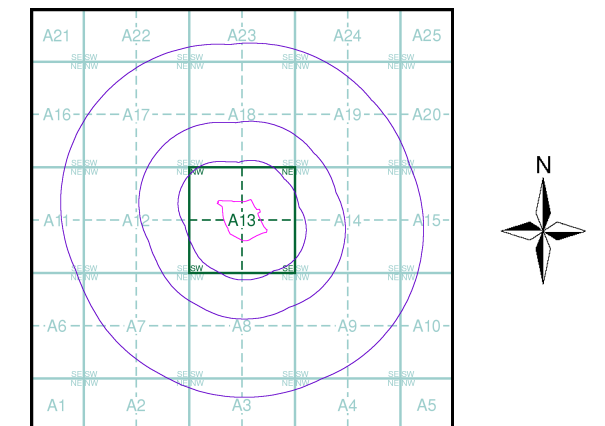
1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	Mean high water (springs)		Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Denbighshire	1:10,560	1879	2
Cheshire	1:10,560	1881	3
Denbighshire	1:10,560	1899 - 1900	4
Denbighshire	1:10,560	1914 - 1915	5
Denbighshire	1:10,560	1938	6
Denbighshire	1:10,560	1938 - 1954	7
Denbighshire	1:10,560	1954	8
Ordnance Survey Plan	1:10,000	1964	9
Ordnance Survey Plan	1:10,000	1968	10
Ordnance Survey Plan	1:10,000	1974 - 1979	11
Ordnance Survey Plan	1:10,000	1981 - 1983	12
Ordnance Survey Plan	1:10,000	1988	13
Ordnance Survey Plan	1:10,000	1990 - 1993	14
Ordnance Survey Plan	1:10,000	1992	15
10K Raster Mapping	1:10,000	2000	16
10K Raster Mapping	1:10,000	2006	17
10K Raster Mapping	1:10,000	2010	18

Historical Map - Slice A



Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham

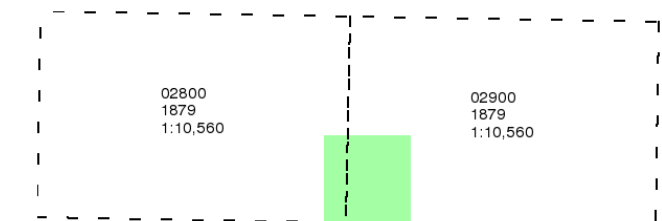
Denbighshire

Published 1879

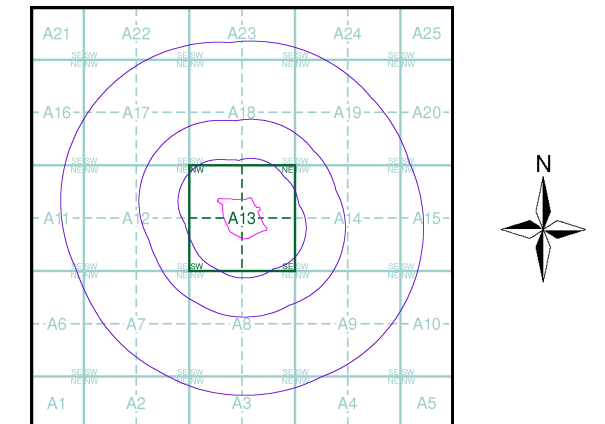
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

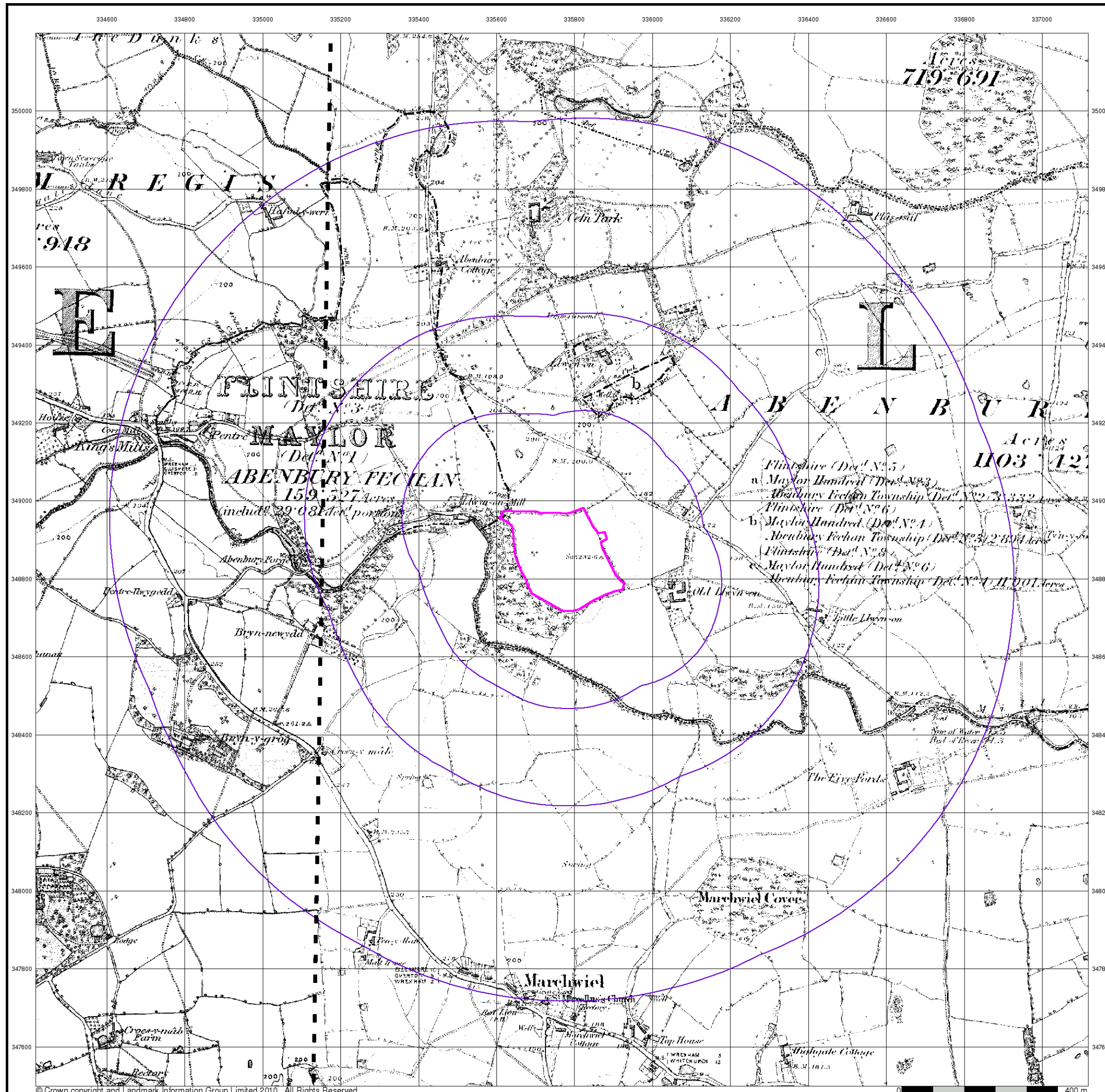


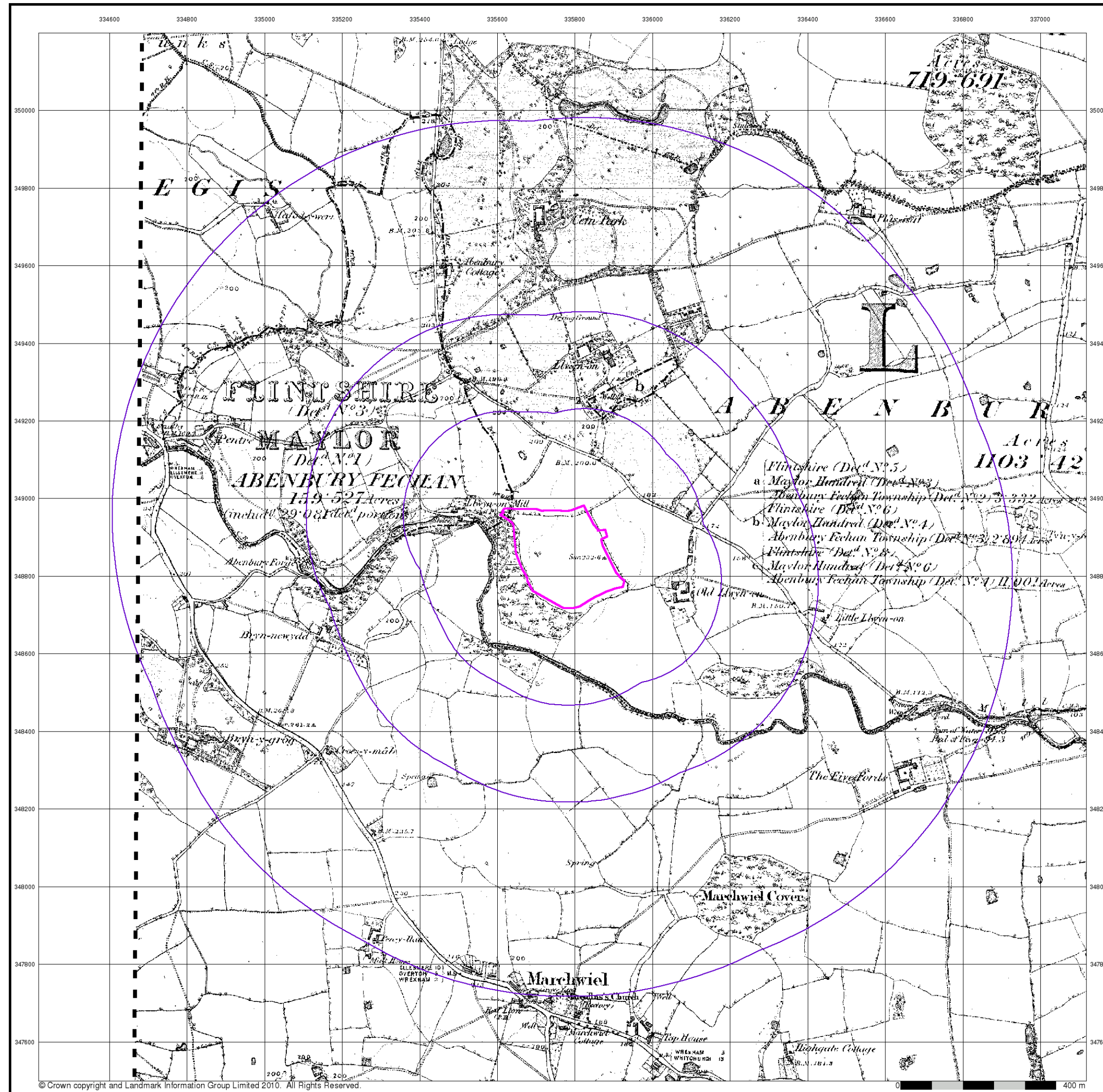
Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham





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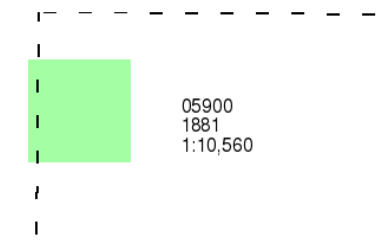
Cheshire

Published 1881

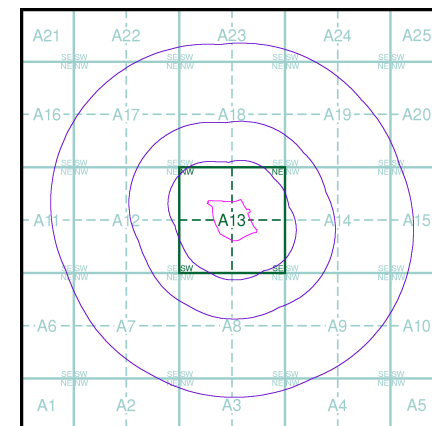
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
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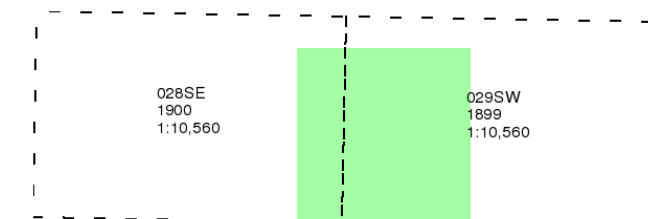
Denbighshire

Published 1899 - 1900

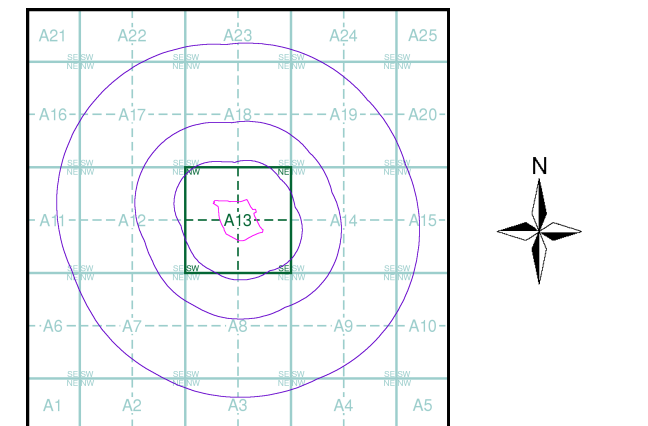
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

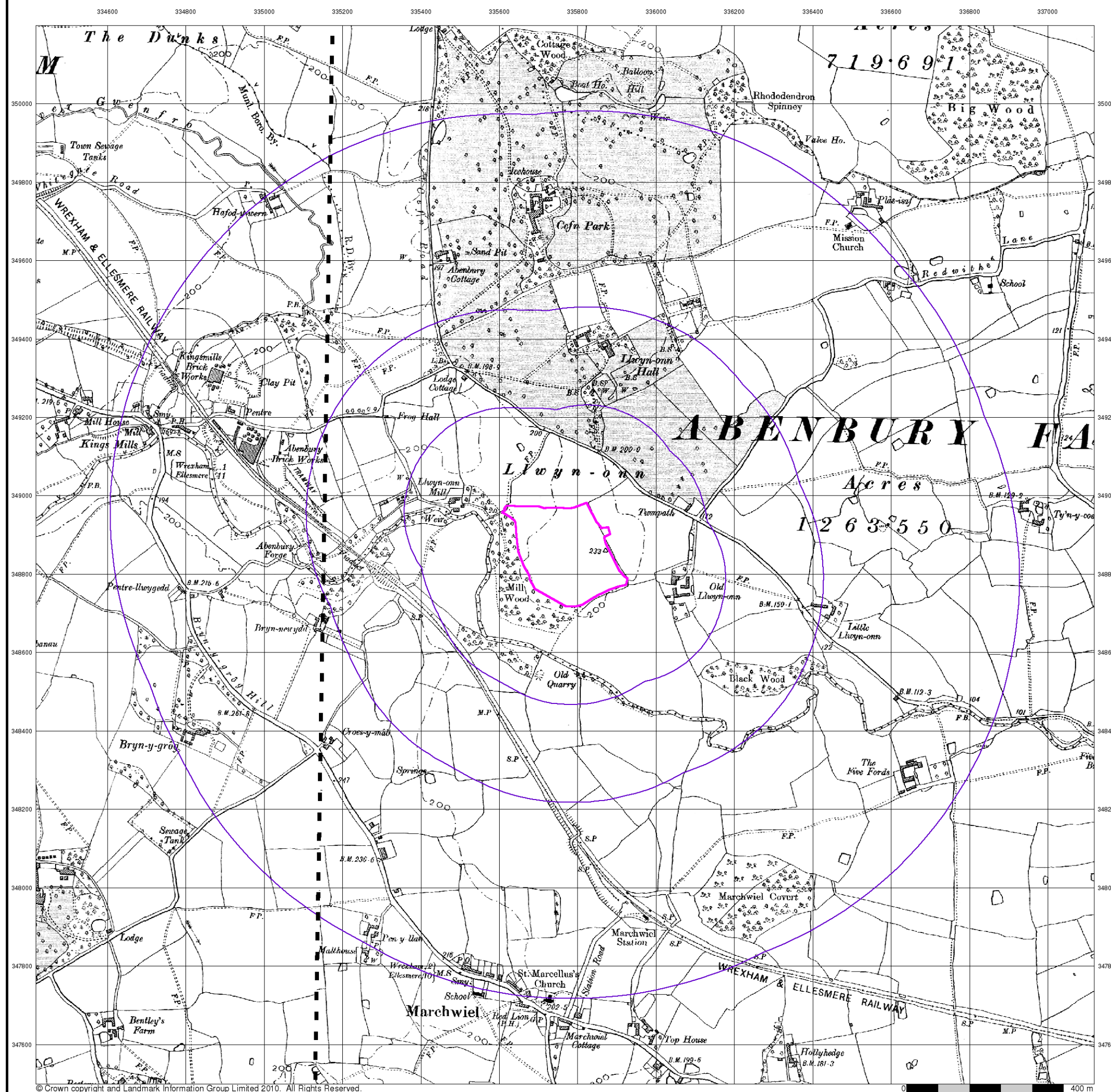


Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
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Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



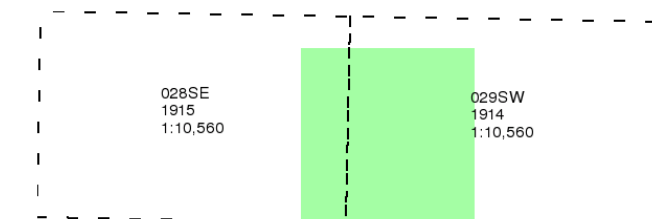
Denbighshire

Published 1914 - 1915

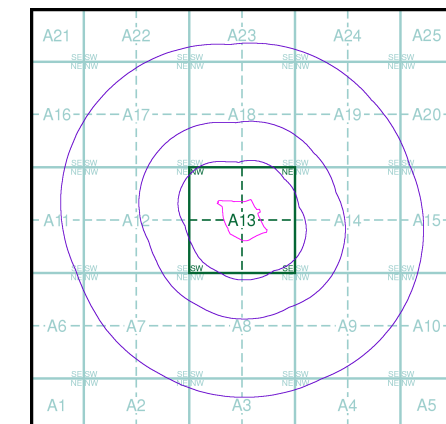
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

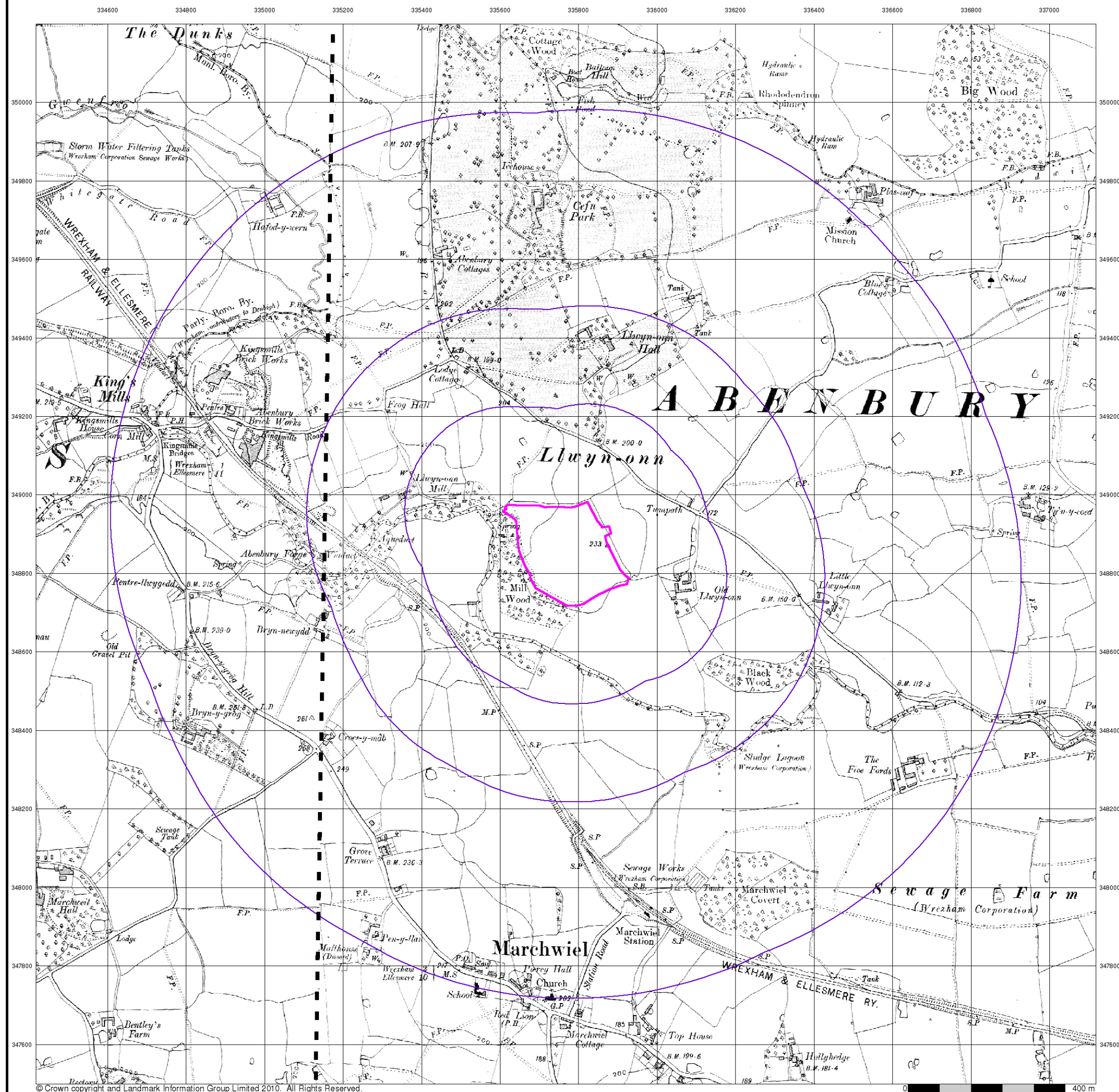


Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
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Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



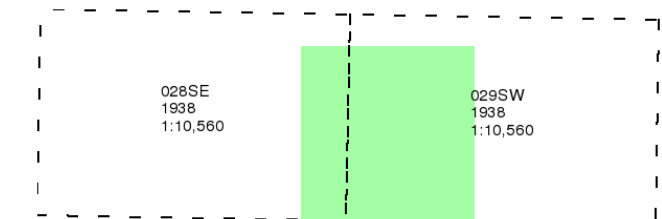
Denbighshire

Published 1938

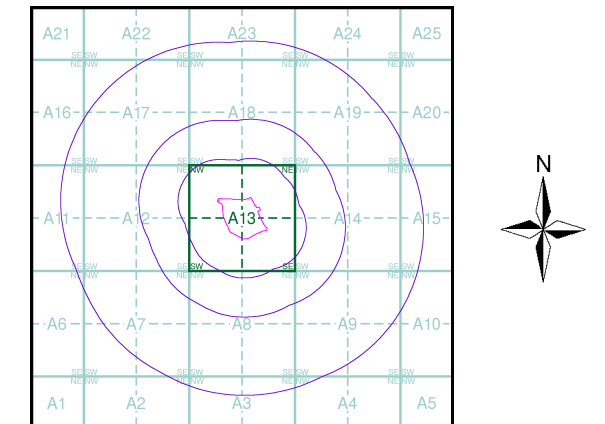
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

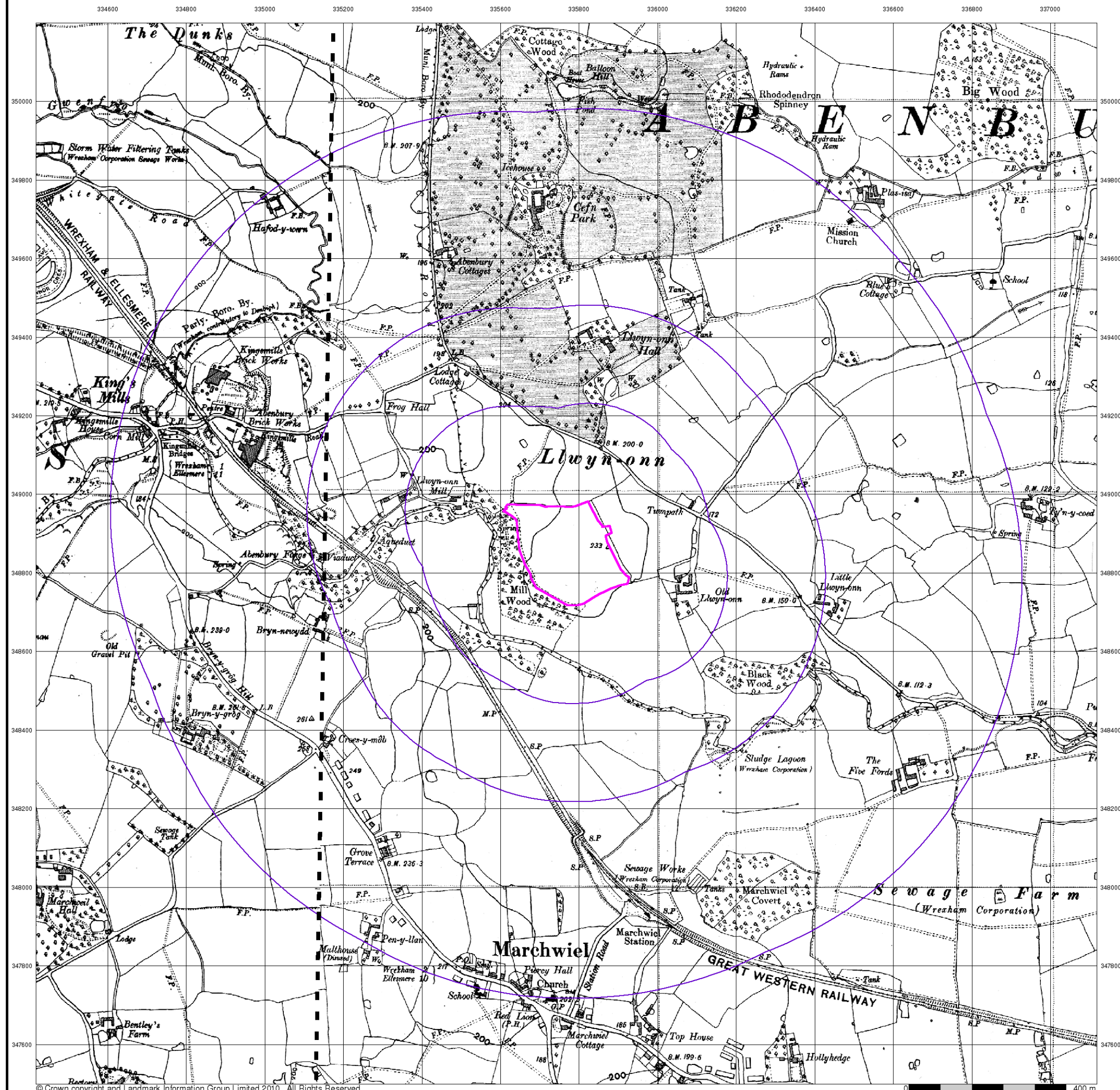


Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
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Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



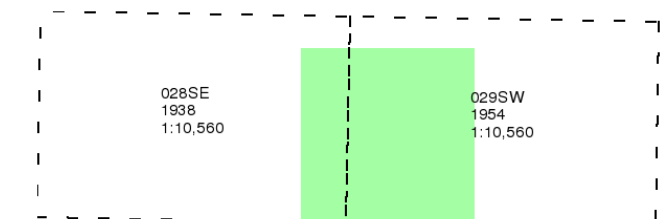
Denbighshire

Published 1938 - 1954

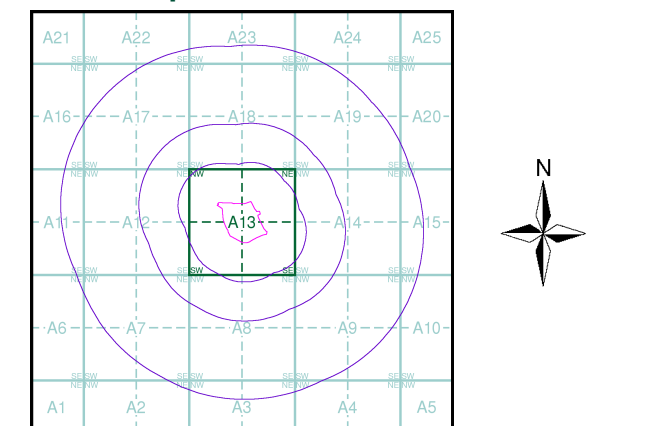
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

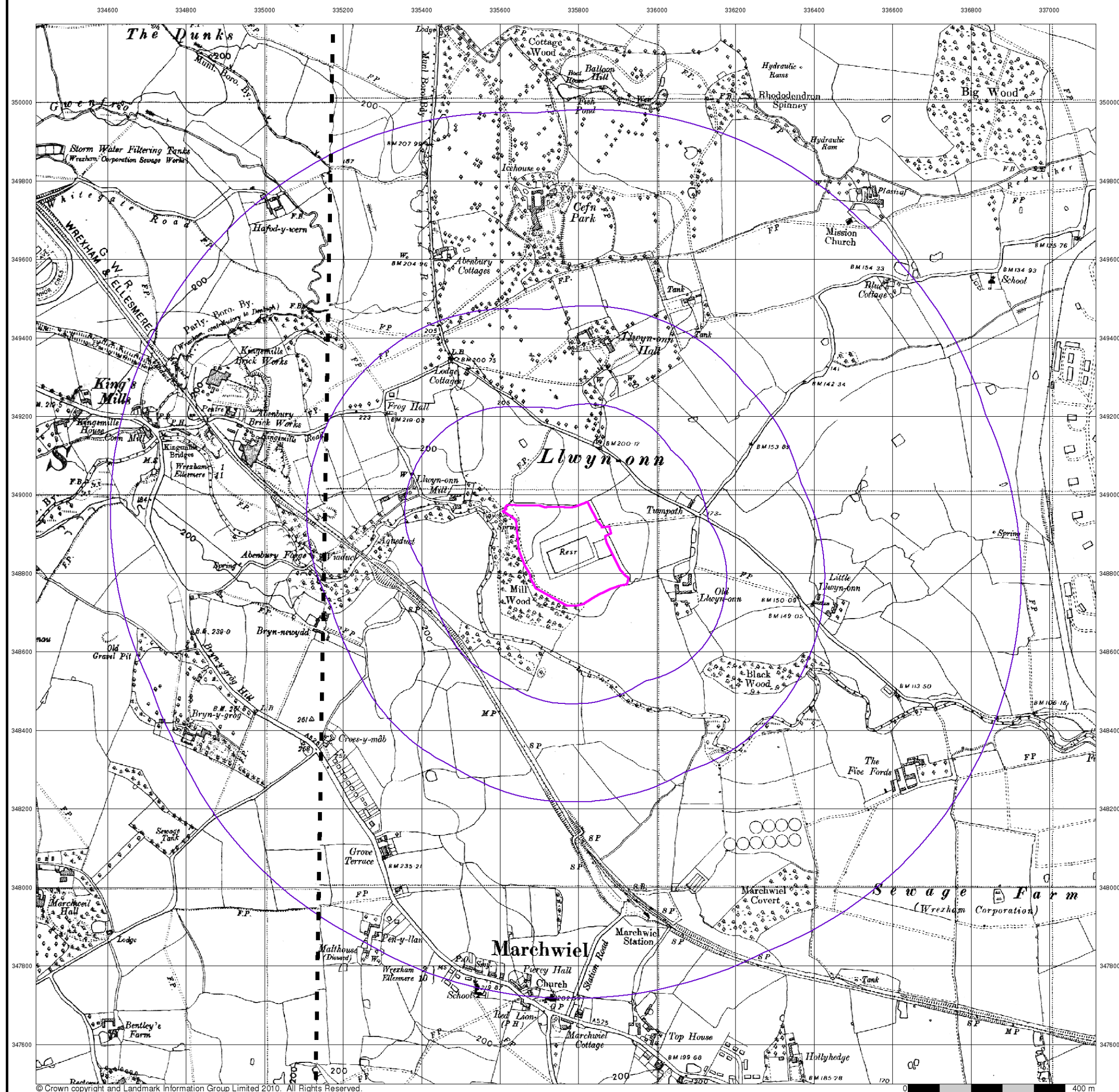


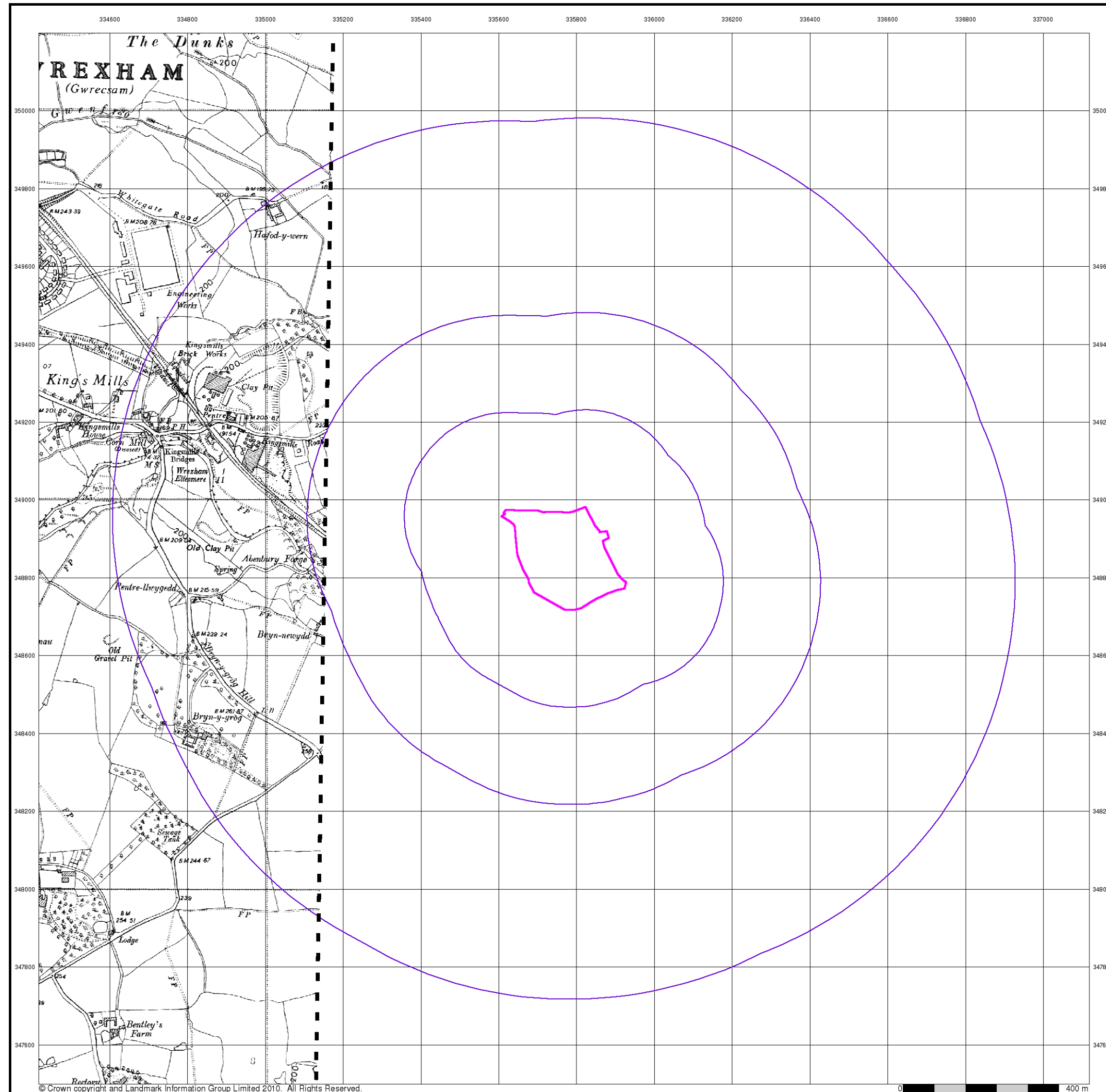
Order Details

Order Number: 31821026_1_1
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National Grid Reference: 335770, 348860
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Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham





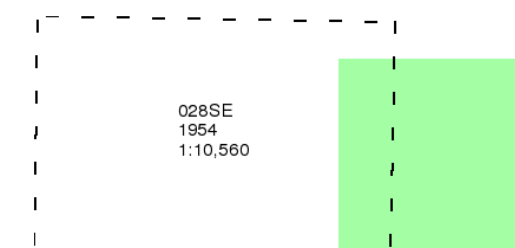
Denbighshire

Published 1954

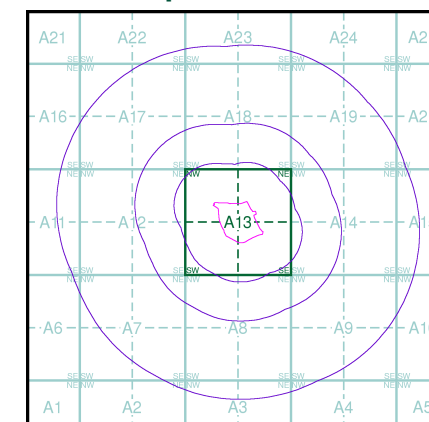
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840 s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940 s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

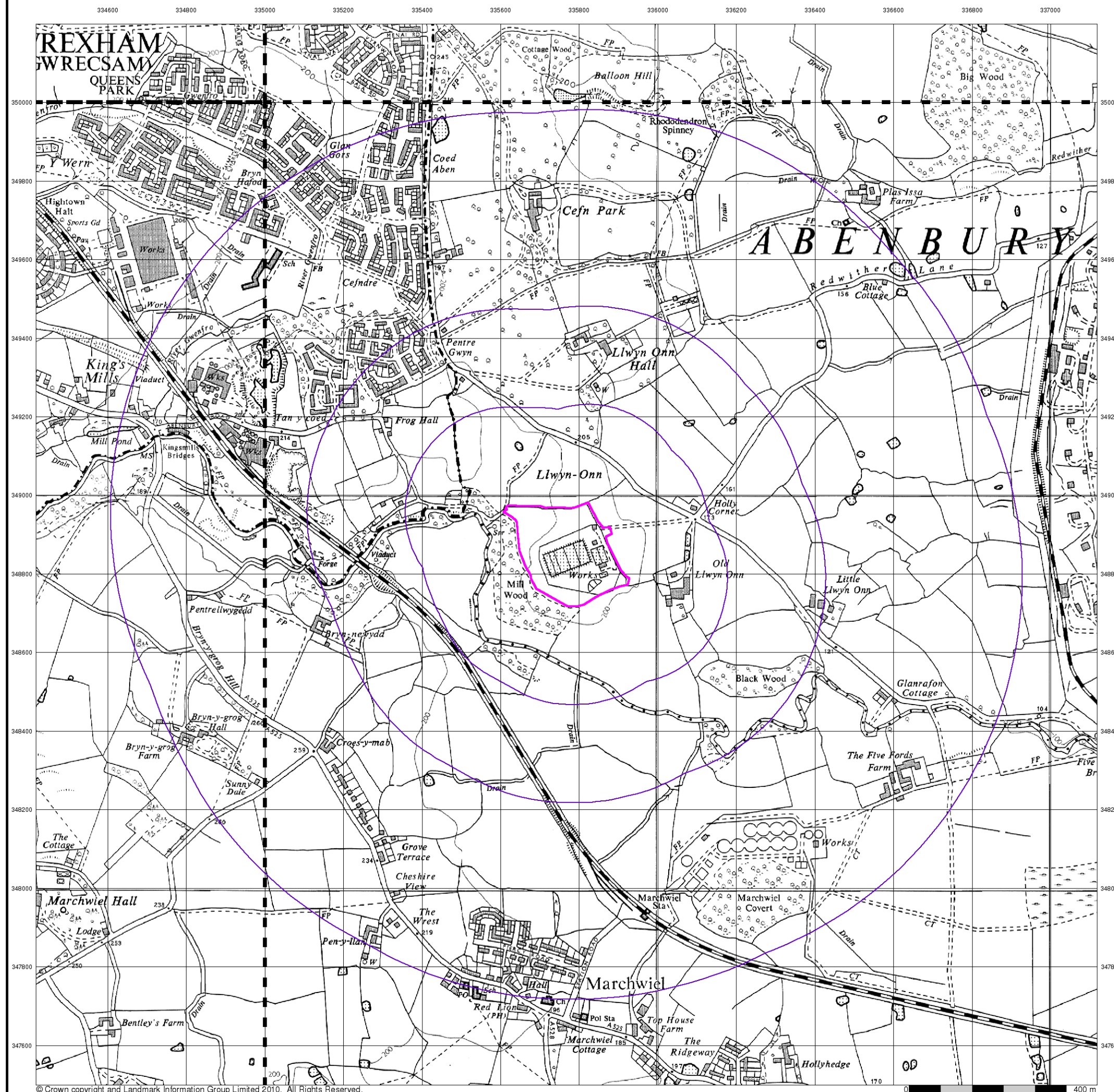
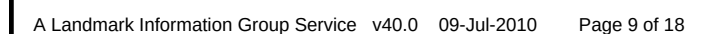
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Customer Ref:	121620
National Grid Reference:	335770, 348860
Slice:	A
Site Area (Ha):	5.32
Search Buffer (m):	1000

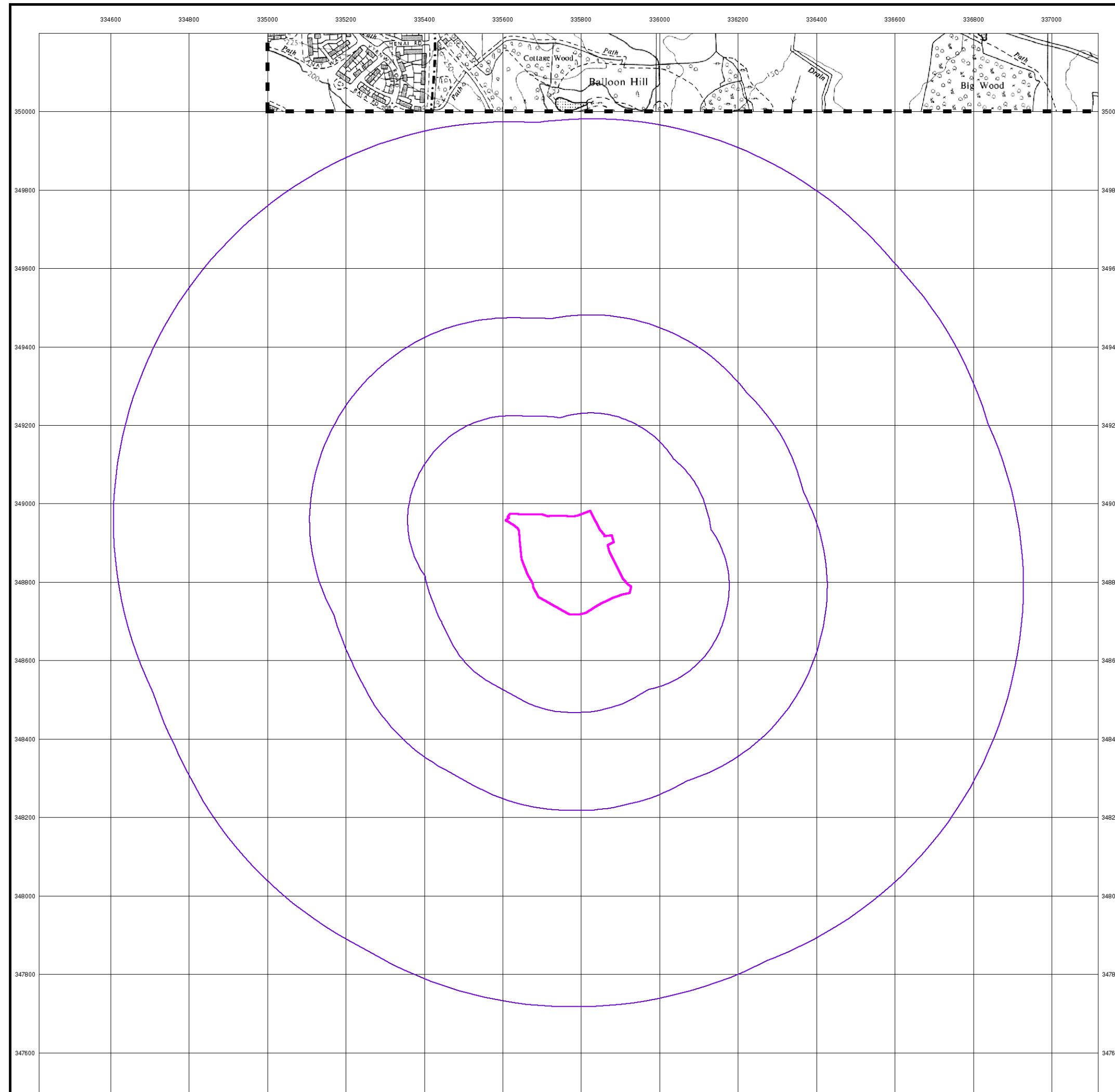
Site Details

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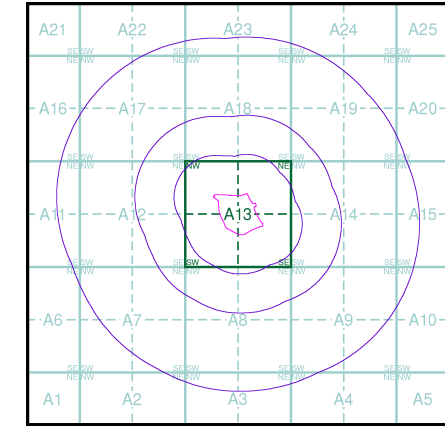
Ordnance Survey Plan
Published 1968
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SJ35SE
1968
1:10,560

Historical Map - Slice A



Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham

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Information Group

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Ordnance Survey Plan

Published 1974 - 1979

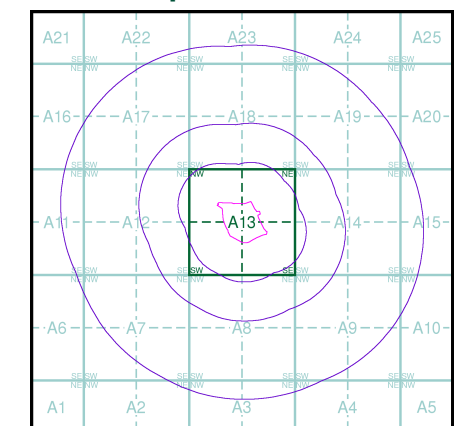
Source map scale - 1:10,000

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Map Name(s) and Date(s)

SJ35SW	1974	1:10,000
SJ34NW	1979	1:10,000
SJ34NE	1979	1:10,000

Historical Map - Slice A

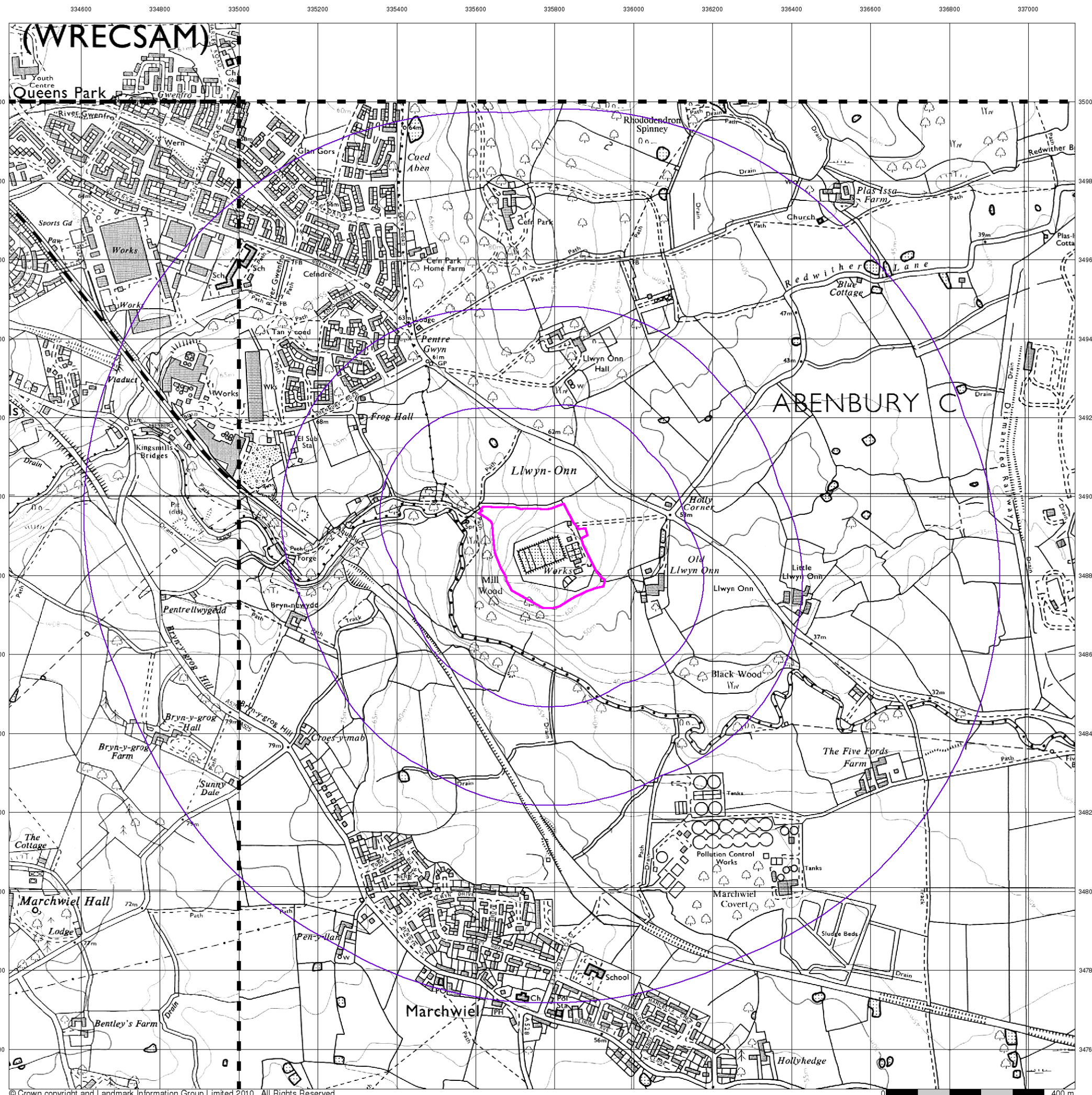


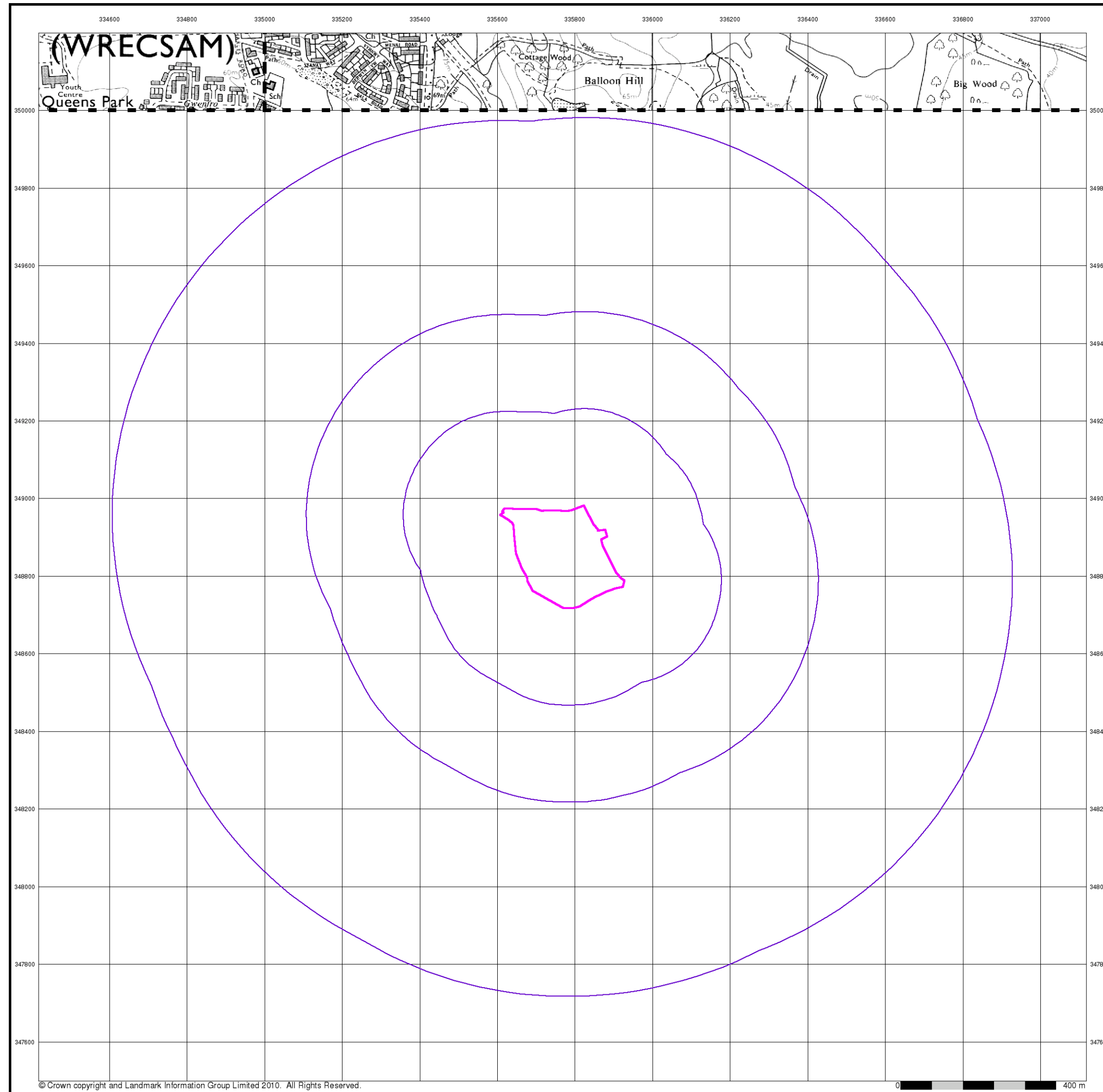
Order Details

Order Number: 31821026_1_1
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 National Grid Reference: 335770, 348860
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Site Details

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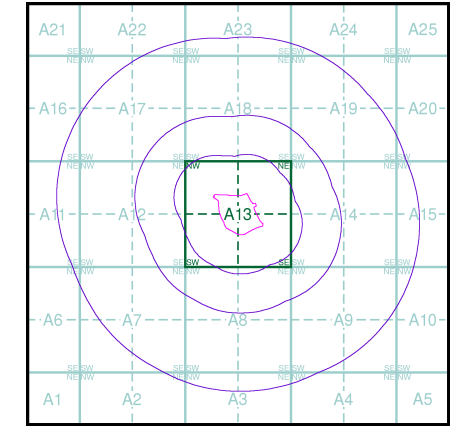
Ordnance Survey Plan
Published 1981 - 1983
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

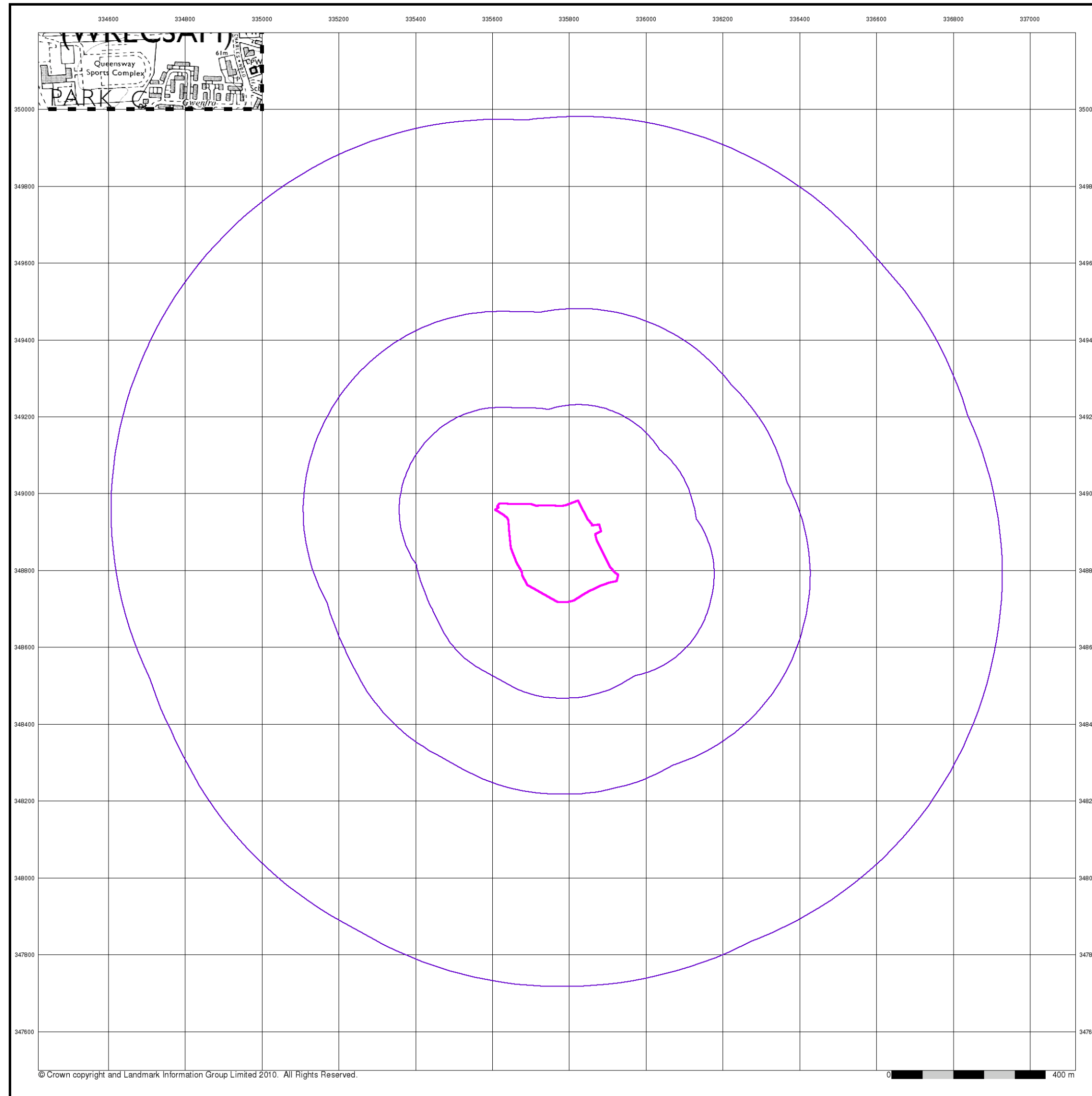
SJ35SW	SJ35SE
1981	1983
1:10,000	1:10,000

Historical Map - Slice A



Order Details
Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 1000

Site Details
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0 400 m



Ordnance Survey Plan
Published 1988
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

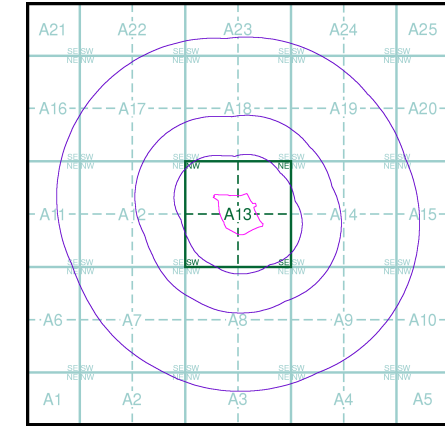
Map Name(s) and Date(s)

SJ35SW

1988

1:10,000

Historical Map - Slice A



Order Details

Order Number:	31821026_1_1
Customer Ref:	121620
National Grid Reference:	335770, 348860
Slice:	A
Site Area (Ha):	5.32
Search Buffer (m):	1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



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Web:	www.envirocheck.co.uk

Ordnance Survey Plan

Published 1990 - 1993

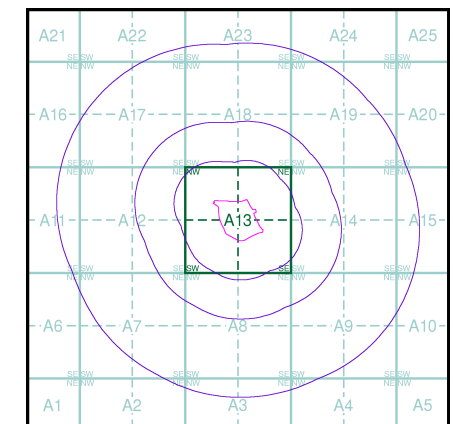
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SJ35SW	SJ35SE
1990	1992
1:10,000	1:10,000
SJ34NW	SJ34NE
1993	1992
1:10,000	1:10,000

Historical Map - Slice A

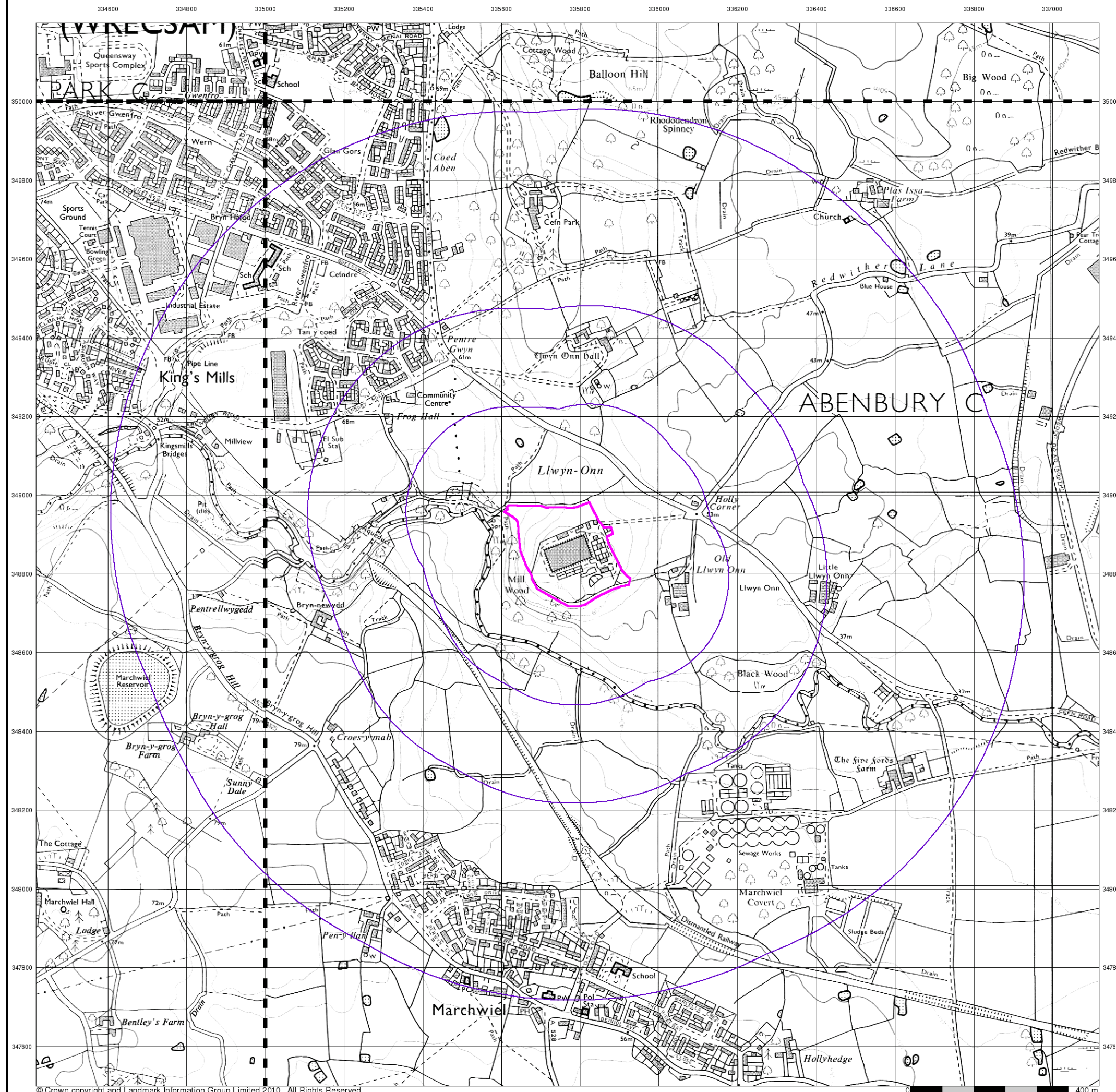


Order Details

Order Number: 31821026_1_1
 Customer Ref: 121620
 National Grid Reference: 335770, 348860
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Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



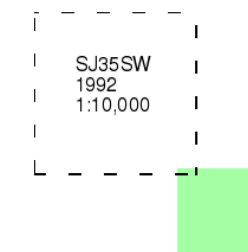
Ordnance Survey Plan

Published 1992

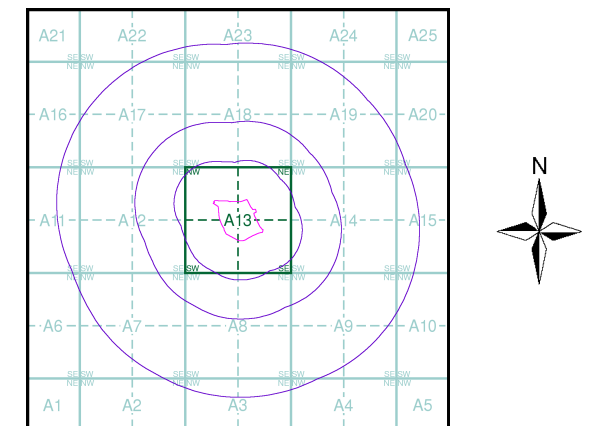
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham

10k Raster Mapping

Published 2000

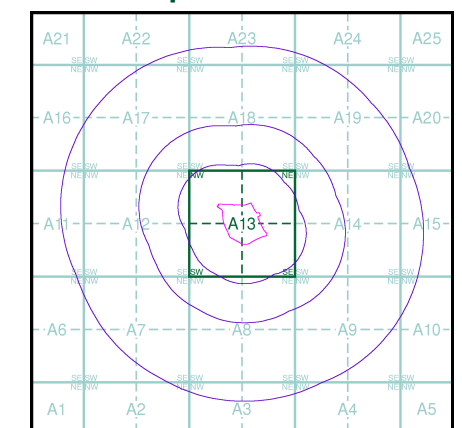
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SJ35SW	SJ35SE
2000	2000
1:10,000	1:10,000
SJ34NW	SJ34NE
2000	2000
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 31821026_1_1
 Customer Ref: 121620
 National Grid Reference: 335770, 348860
 Slice: A
 Site Area (Ha): 5.32
 Search Buffer (m): 1000

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



10k Raster Mapping

Published 2006

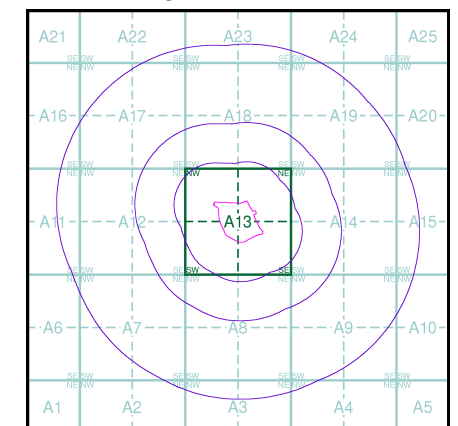
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SJ35SW	SJ35SE
2006	2006
1:10,000	1:10,000
SJ34NW	SJ34NE
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 31821026_1_1
 Customer Ref: 121620
 National Grid Reference: 335770, 348860
 Slice: A
 Site Area (Ha): 5.32
 Search Buffer (m): 1000

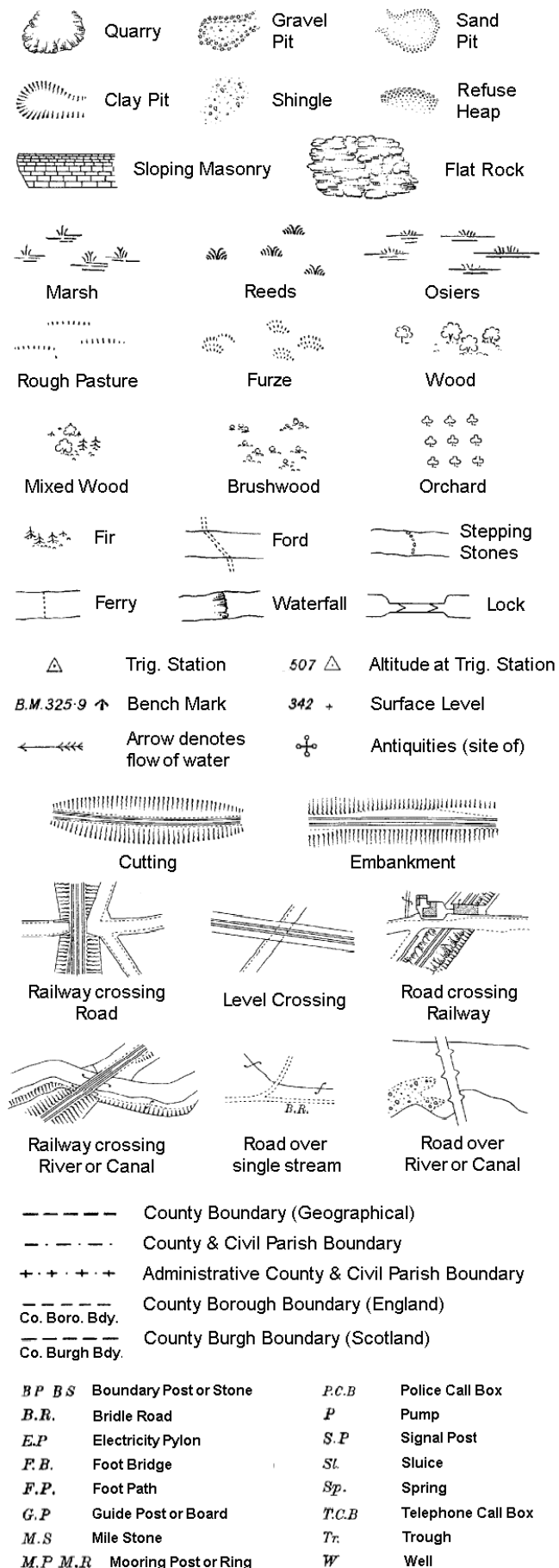
Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham

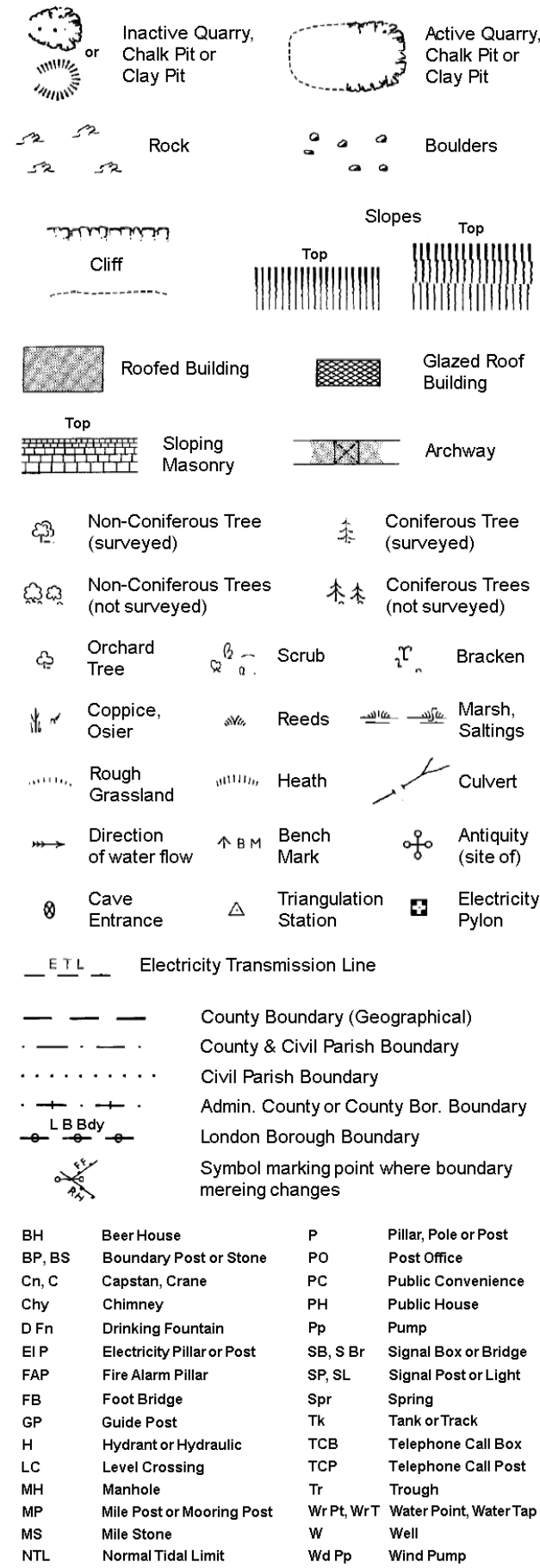


Historical Mapping Legends

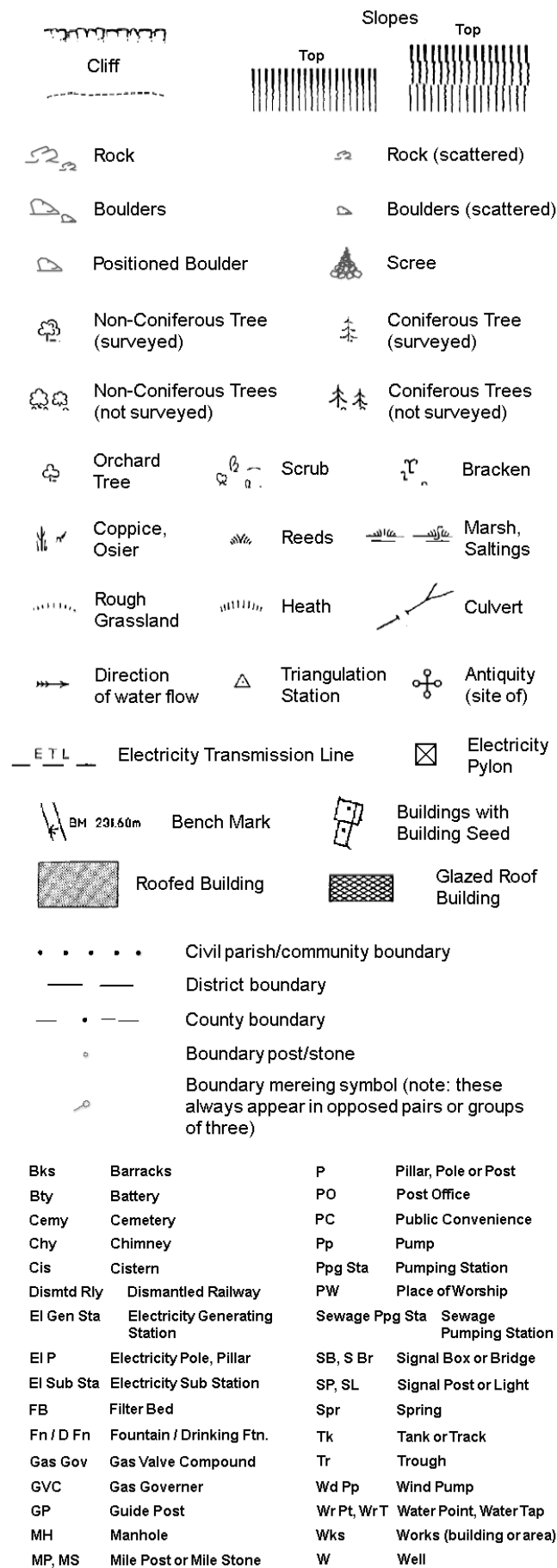
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



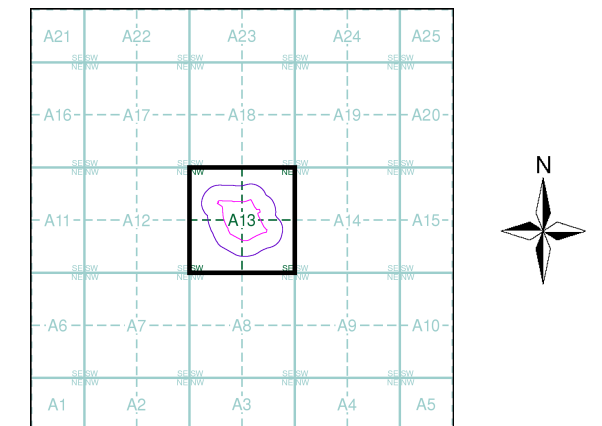
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Denbighshire	1:2,500	1873	2
Denbighshire	1:2,500	1899	3
Denbighshire	1:2,500	1912	4
Ordnance Survey Plan	1:1,250	1959	5
Ordnance Survey Plan	1:2,500	1961	6
Additional SIMs	1:2,500	1961 - 1977	7
Ordnance Survey Plan	1:1,250	1968	8
Additional SIMs	1:1,250	1968	9
Supply of Unpublished Survey Information	1:2,500	1974	10
Ordnance Survey Plan	1:2,500	1985	11
Additional SIMs	1:2,500	1988	12
Additional SIMs	1:1,250	1990	13
Large-Scale National Grid Data	1:2,500	1992	14
Large-Scale National Grid Data	1:1,250	1992	15
Large-Scale National Grid Data	1:1,250	1996	16

Historical Map - Segment A13



Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 100

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



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Fax: 0844 844 9951
Web: www.envirocheck.co.uk

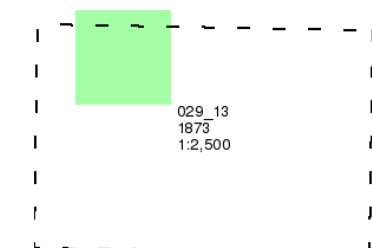
Denbighshire

Published 1873

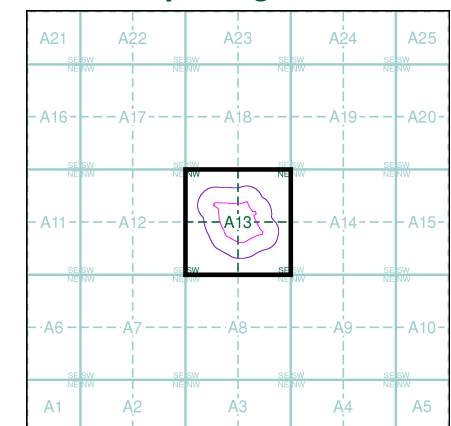
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

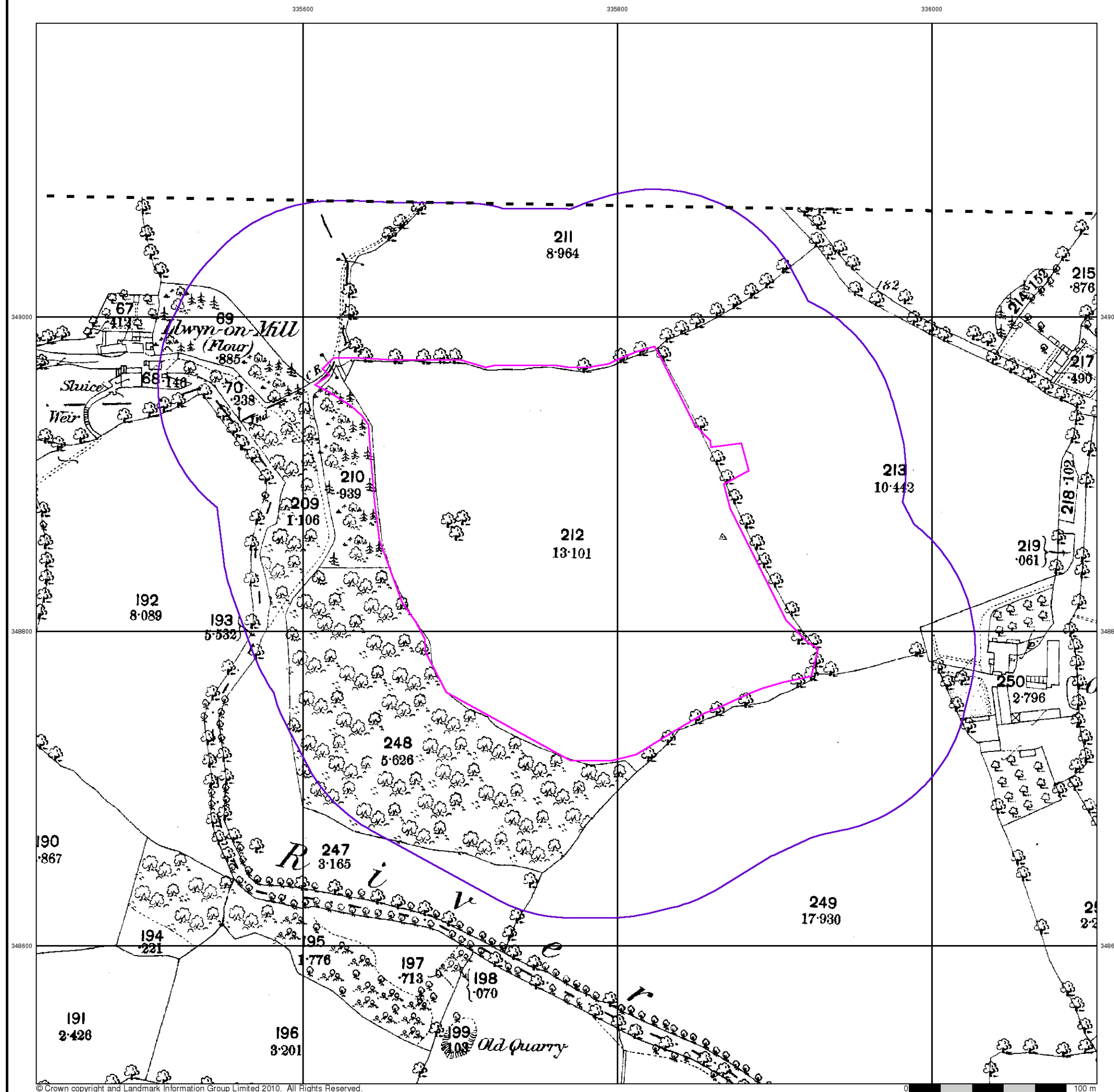


Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 100

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



Denbighshire

Published 1899

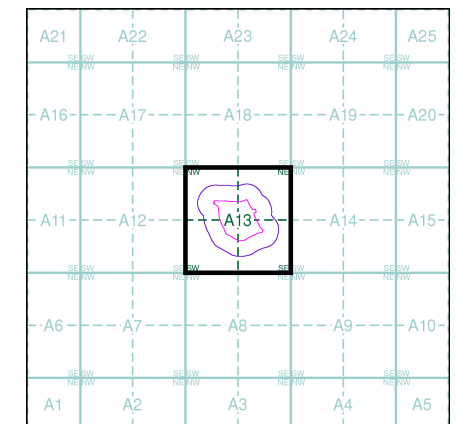
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

029_09
1899
12,500
029_13
1899
12,500

Historical Map - Segment A13

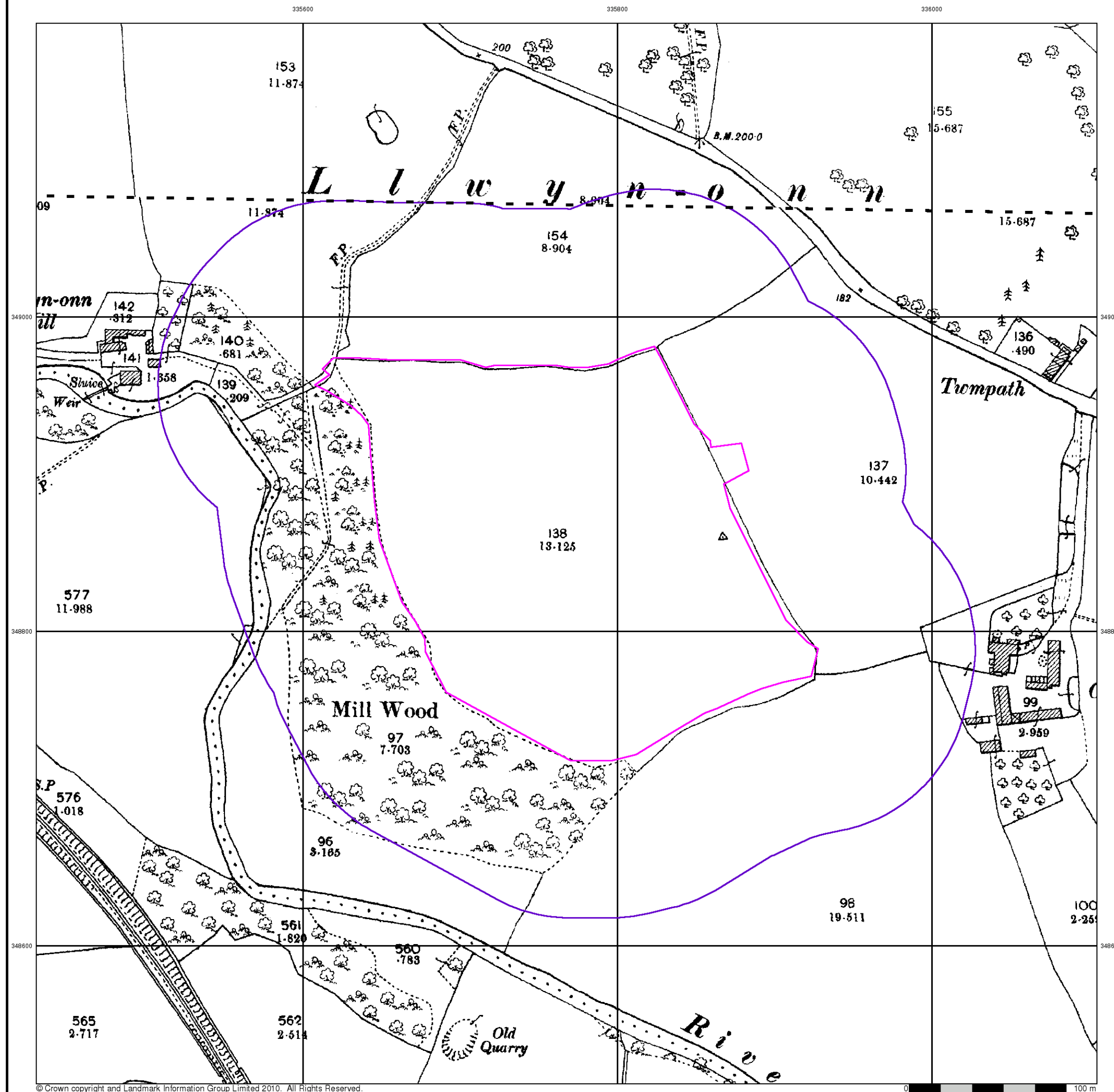


Order Details

Order Number: 31821026_1_1
 Customer Ref: 121620
 National Grid Reference: 335770, 348860
 Slice: A
 Site Area (Ha): 5.32
 Search Buffer (m): 100

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



Denbighshire

Published 1912

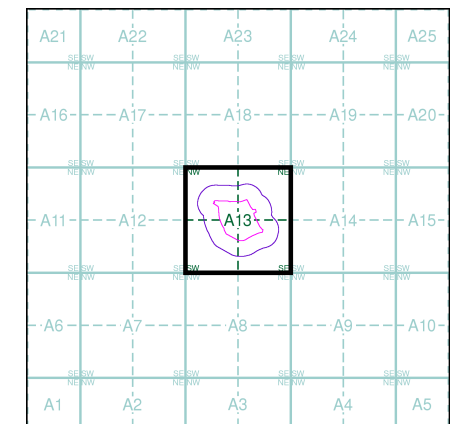
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

029_09
1912
1:2,500
029_13
1912
1:2,500

Historical Map - Segment A13

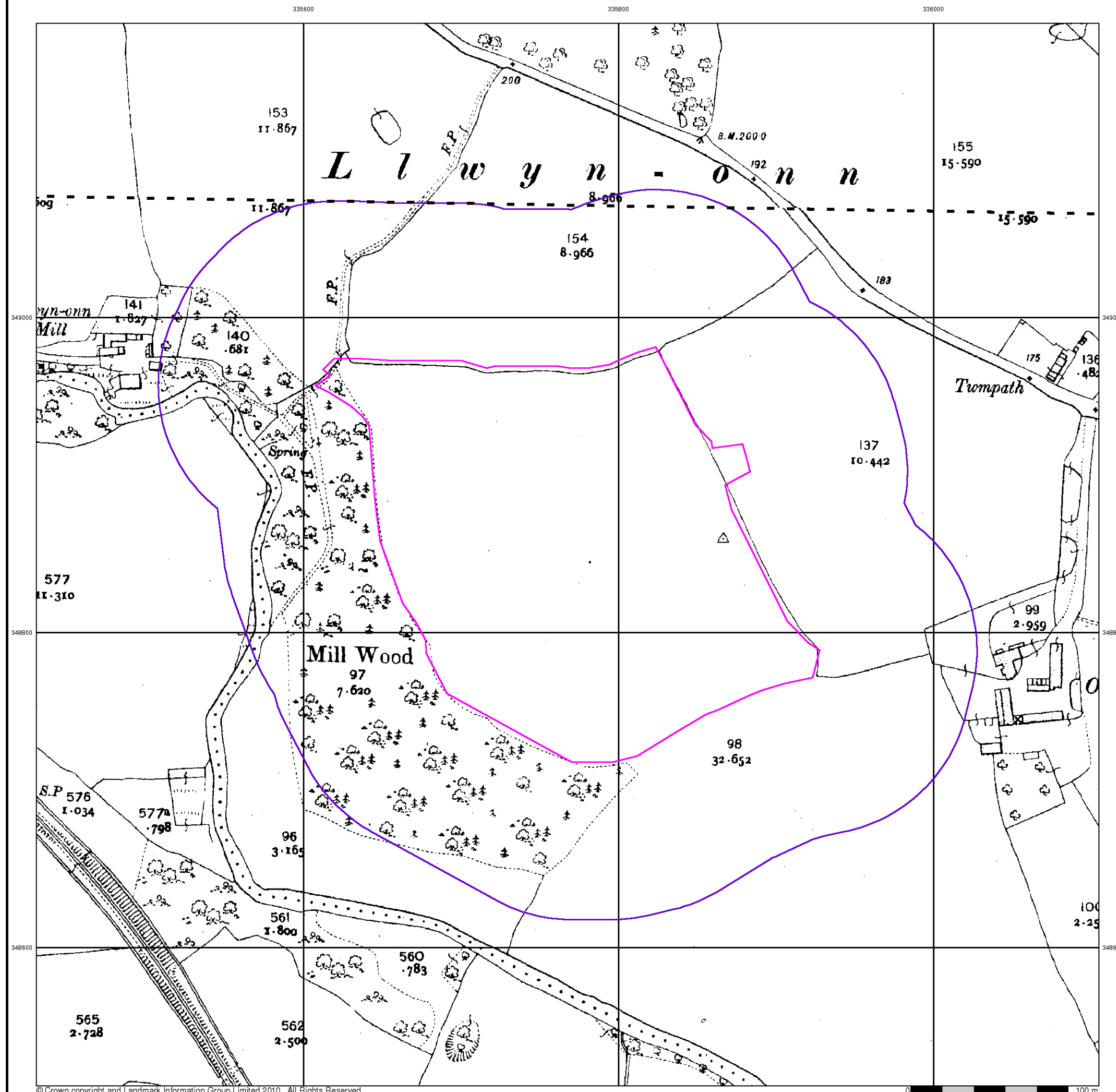


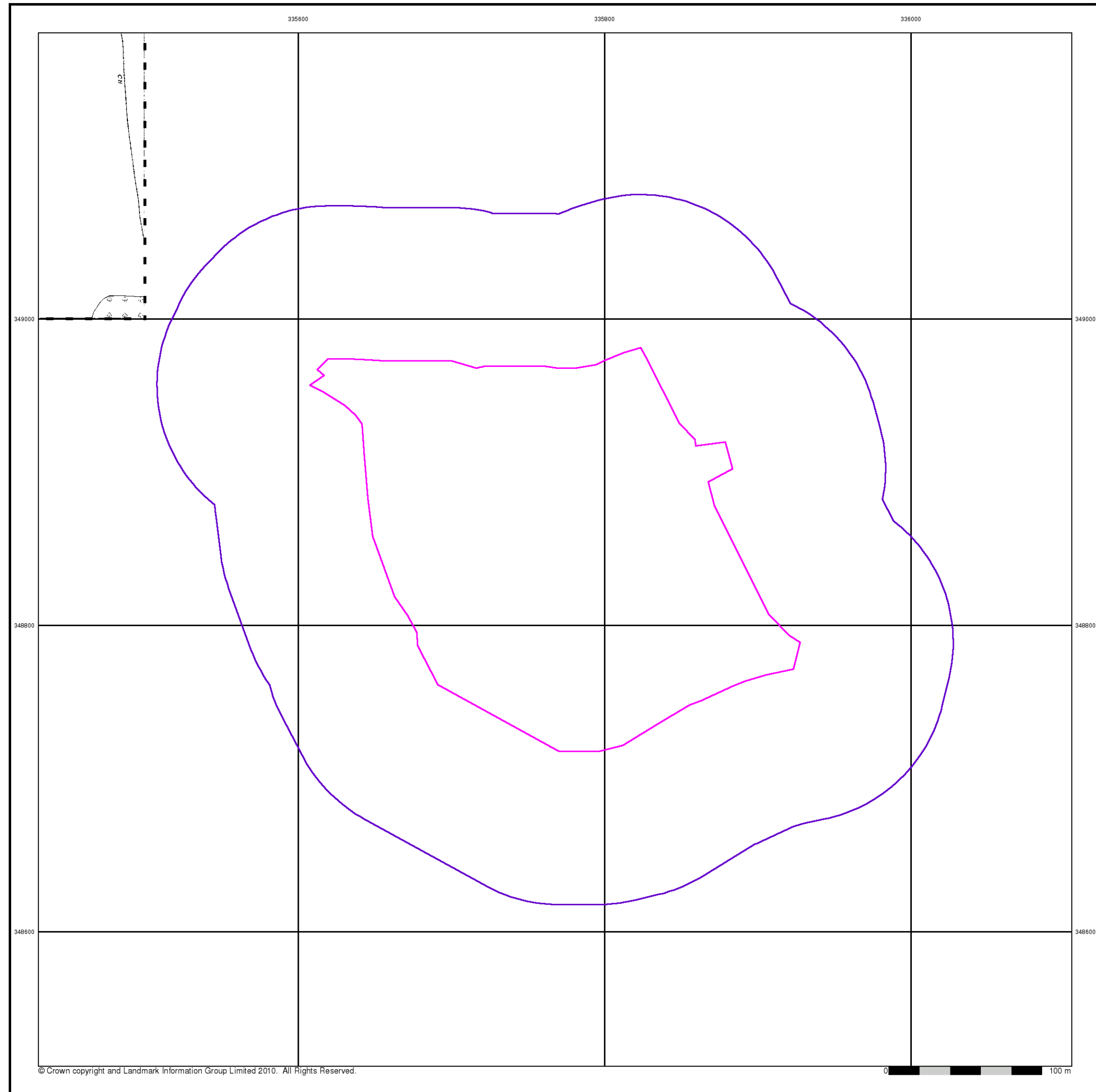
Order Details

Order Number: 31821026_1_1
 Customer Ref: 121620
 National Grid Reference: 335770, 348860
 Slice: A
 Site Area (Ha): 5.32
 Search Buffer (m): 100

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham





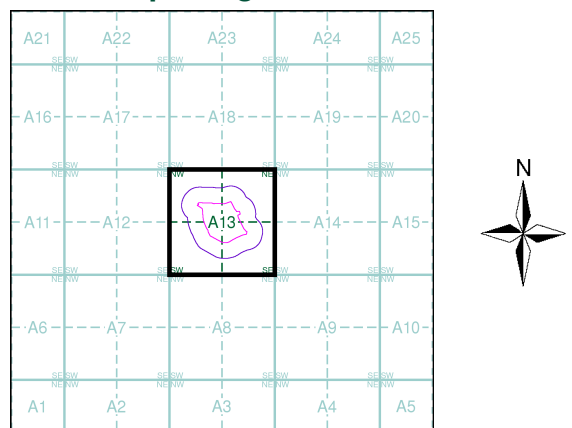
Ordnance Survey Plan
Published 1959
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SJ3549SW
1959
1:1,250

Historical Map - Segment A13



Order Details
Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 100

Site Details
Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham

Ordnance Survey Plan

Published 1961

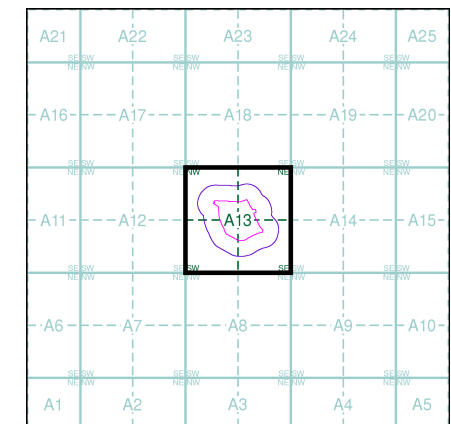
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SJ3549 1961 1:2,500	SJ3649 1961 1:2,500
SJ3548 1961 1:2,500	SJ3648 1961 1:2,500

Historical Map - Segment A13

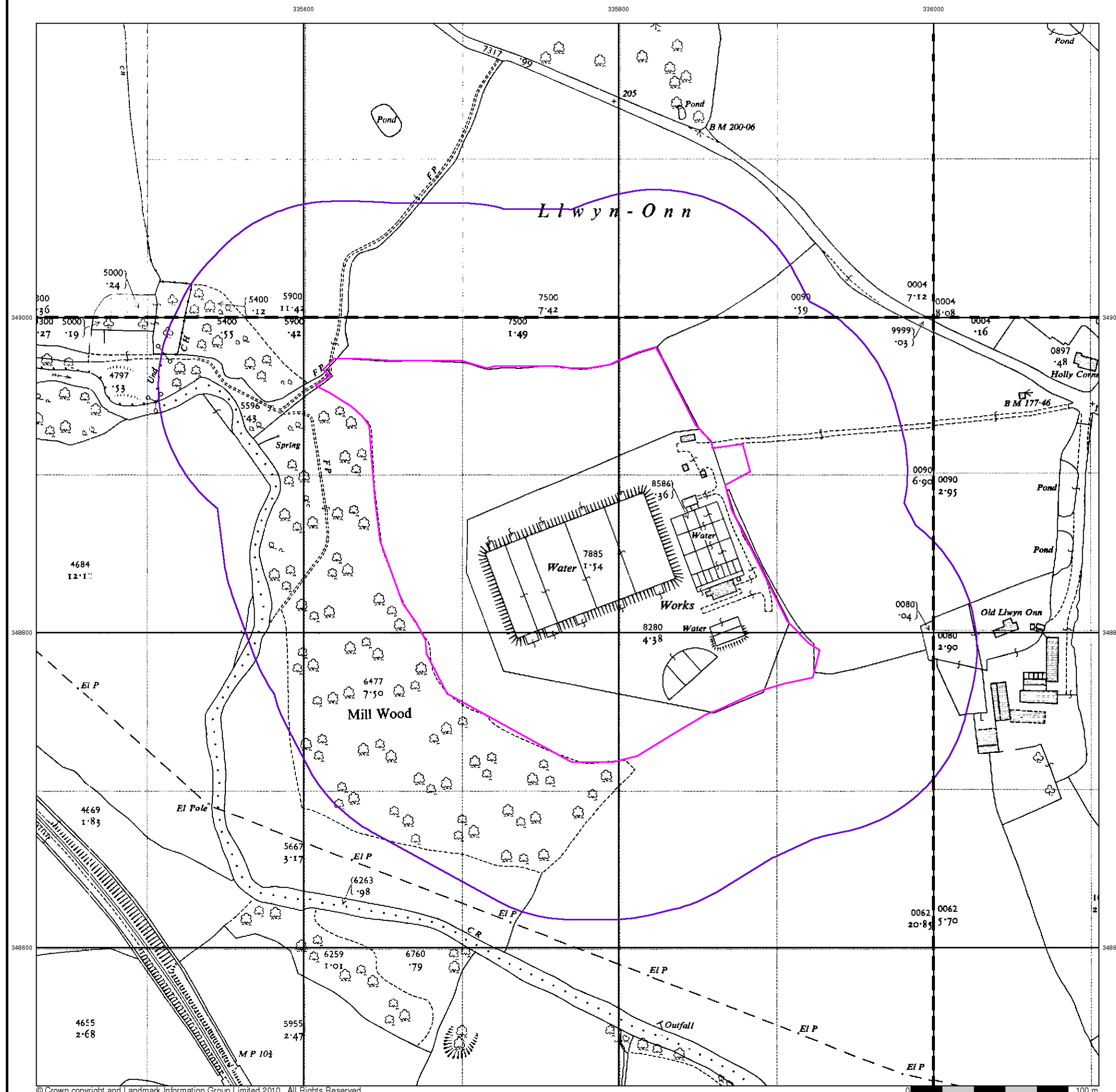


Order Details

Order Number: 31821026_1_1
 Customer Ref: 121620
 National Grid Reference: 335770, 348860
 Slice: A
 Site Area (Ha): 5.32
 Search Buffer (m): 100

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



Additional SIMs

Published 1961 - 1977

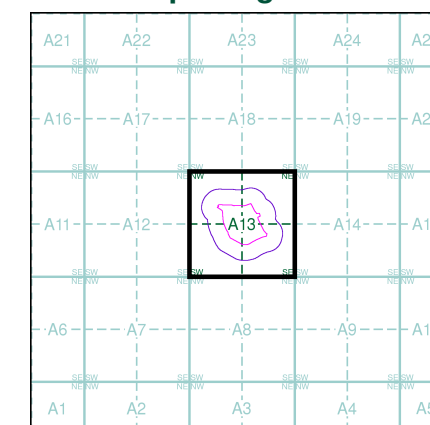
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

		SJ3649	
		1961	
		1:2,500	
SJ3548		SJ3648	
1977		1961	
1:2,500		1:2,500	

Historical Map - Segment A13

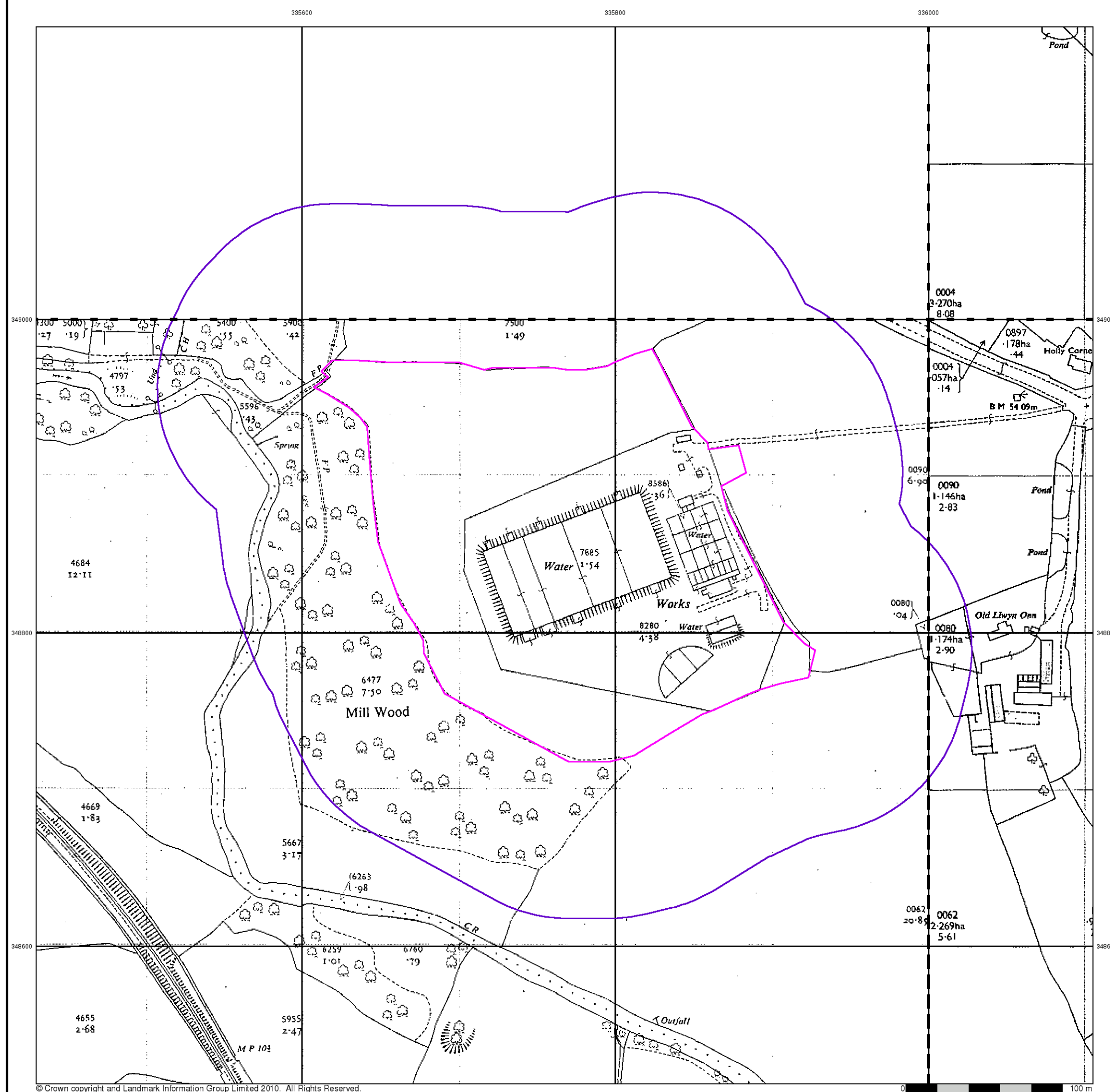


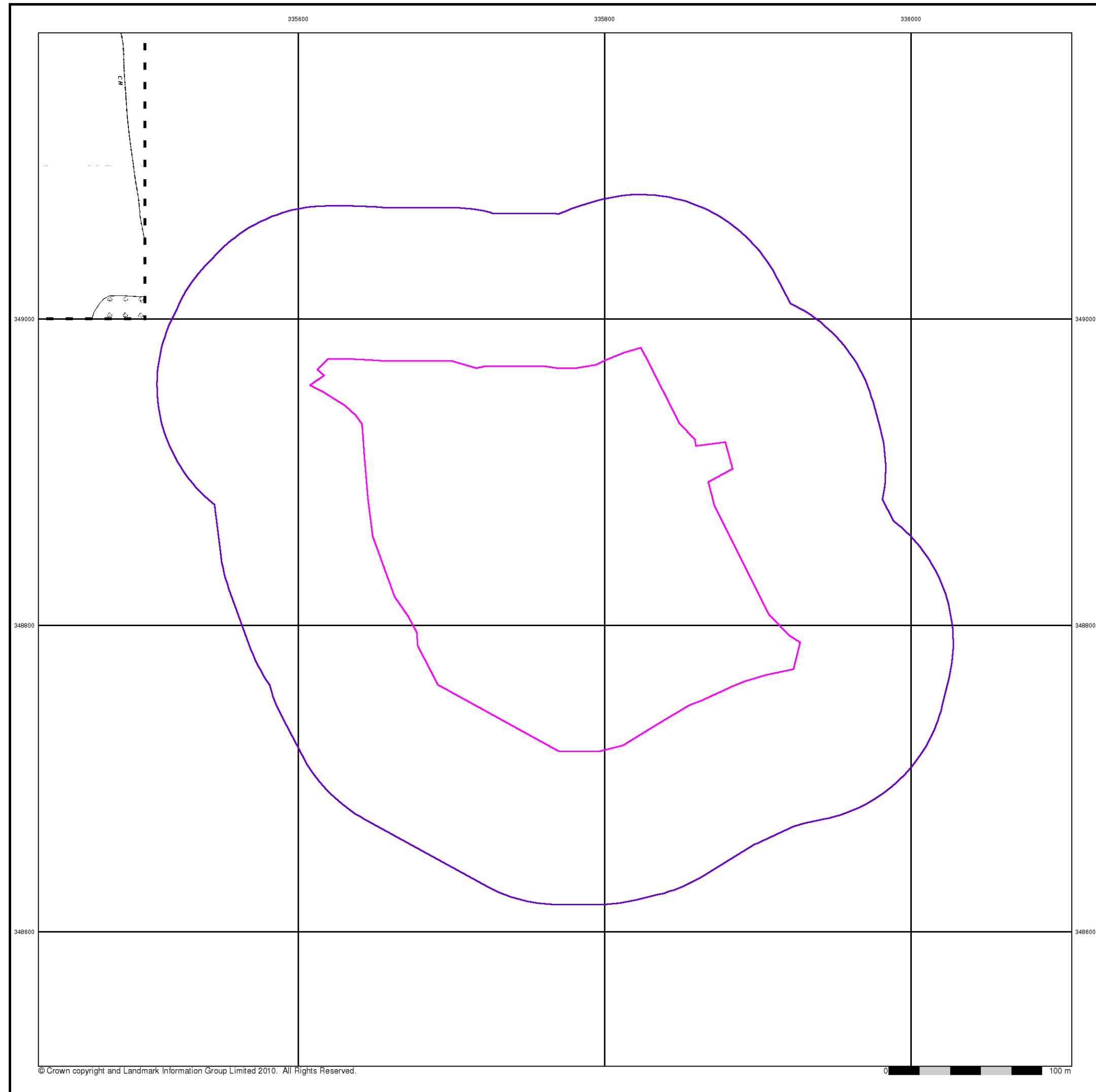
Order Details

Order Number: 31821026_1_1
 Customer Ref: 121620
 National Grid Reference: 335770, 348860
 Slice: A
 Site Area (Ha): 5.32
 Search Buffer (m): 100

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham







Ordnance Survey Plan

Published 1968

Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

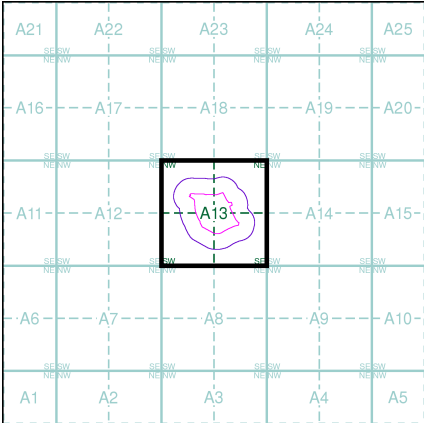
Map Name(s) and Date(s)

SJ3549SW

1968

1:1,250

Historical Map - Segment A13



Order Details

Order Number:	31821026_1_1
Customer Ref:	121620
National Grid Reference:	335770, 348860
Slice:	A
Site Area (Ha):	5.32
Search Buffer (m):	100

Site Details

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0844 844 9951

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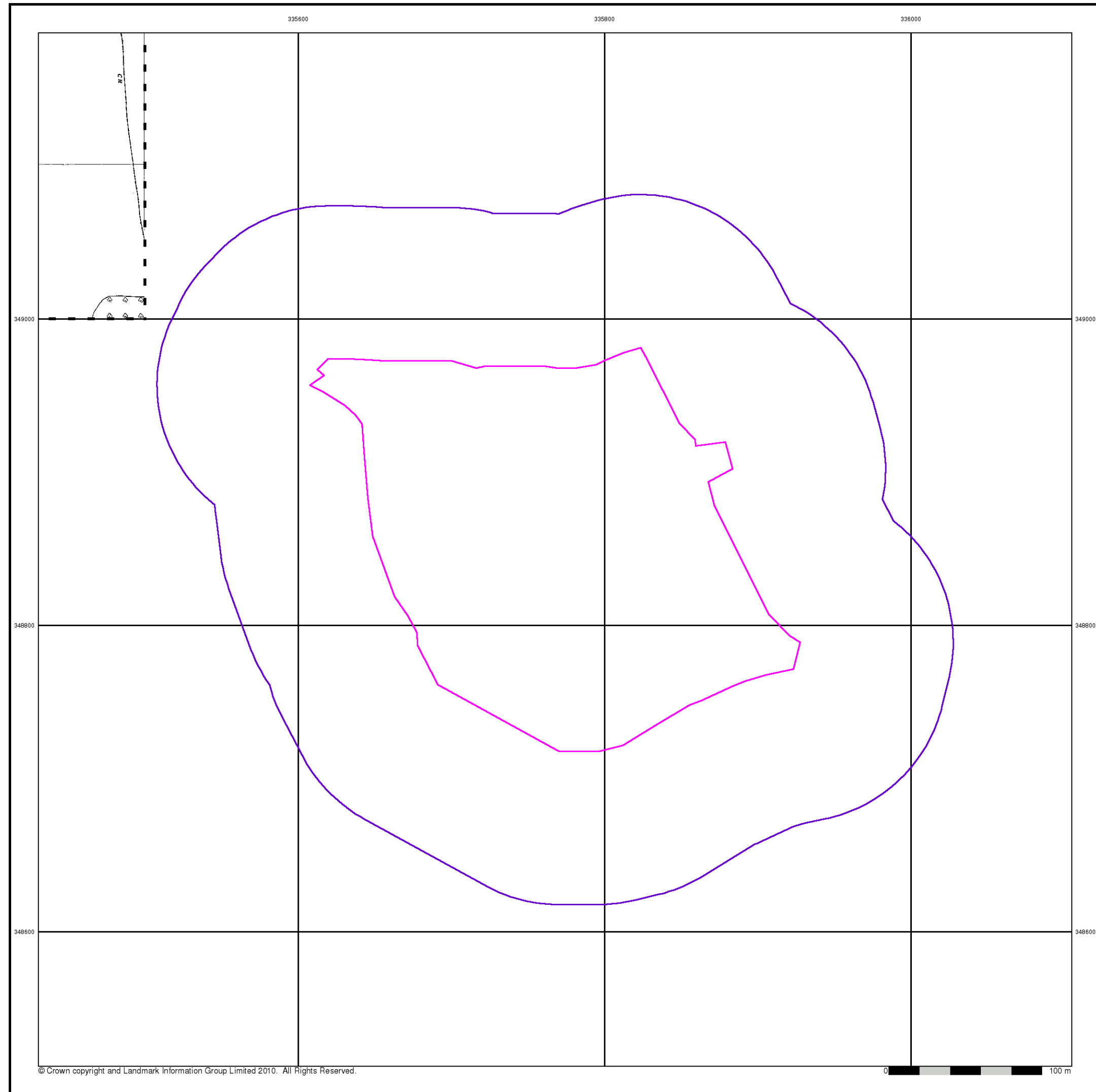
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Additional SIMs
Published 1968
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SJ3549SW
1968
1:1,250

Historical Map - Segment A13

Order Details

Order Number:	31821026_1_1
Customer Ref:	121620
National Grid Reference:	335770, 348860
Slice:	A
Site Area (Ha):	5.32
Search Buffer (m):	100

Site Details
Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham





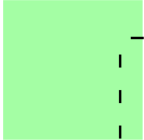
Supply of Unpublished Survey Information

Published 1974

Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



SJ3648

1974

1:2,500

Historical Map - Segment A13

A21	A22	A23	A24	A25
A16	A17	A18	A19	A20
A11	A12	A13	A14	A15
A6	A7	A8	A9	A10
A1	A2	A3	A4	A5



Order Details

Order Number:	31821026_1_1
Customer Ref:	121620
National Grid Reference:	335770, 348860
Slice:	A
Site Area (Ha):	5.32
Search Buffer (m):	100

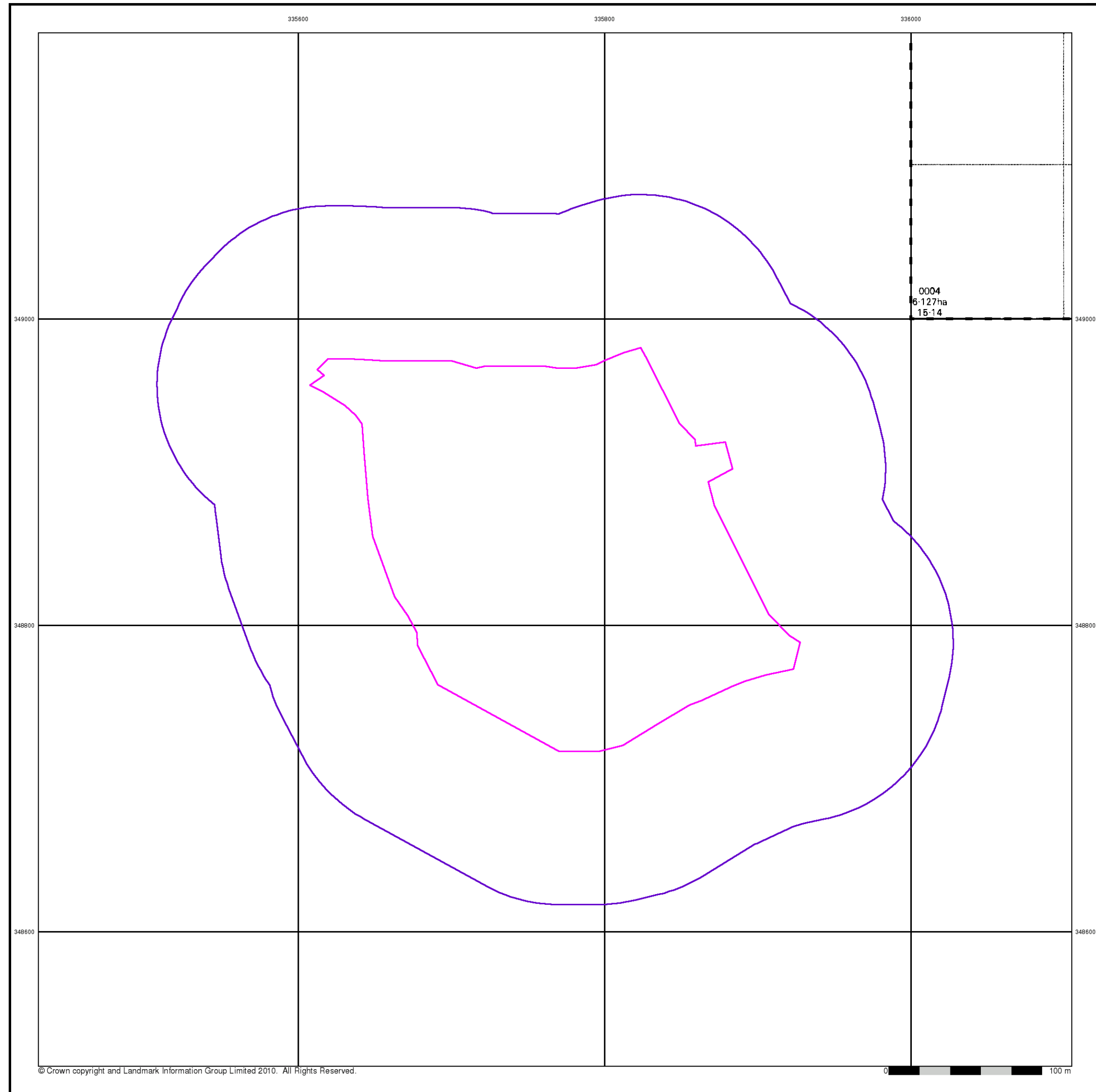
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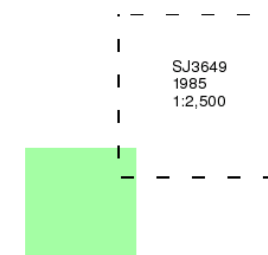
A Landmark Information Group Service v40.0 09-Jul-2010 Page 10 of 16



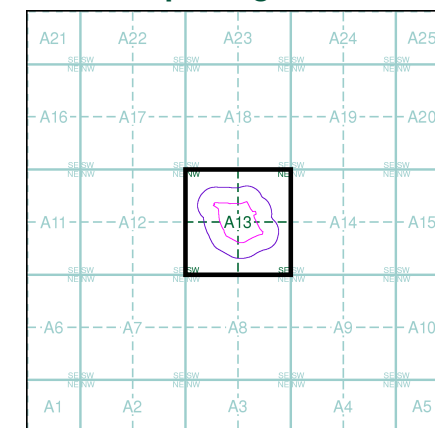
Ordnance Survey Plan
Published 1985
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details
Order Number: 31821026_1_1
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National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 100

Site Details
Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham

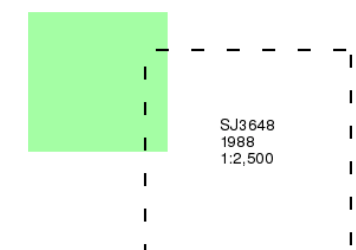
Additional SIMs

Published 1988

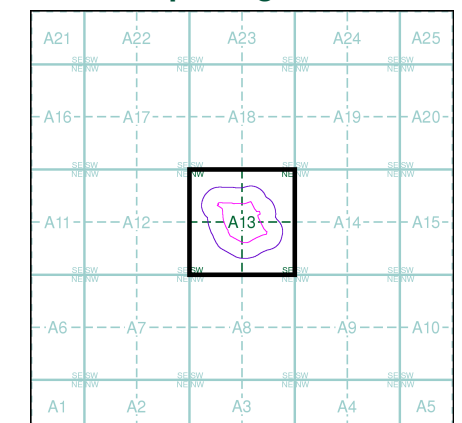
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

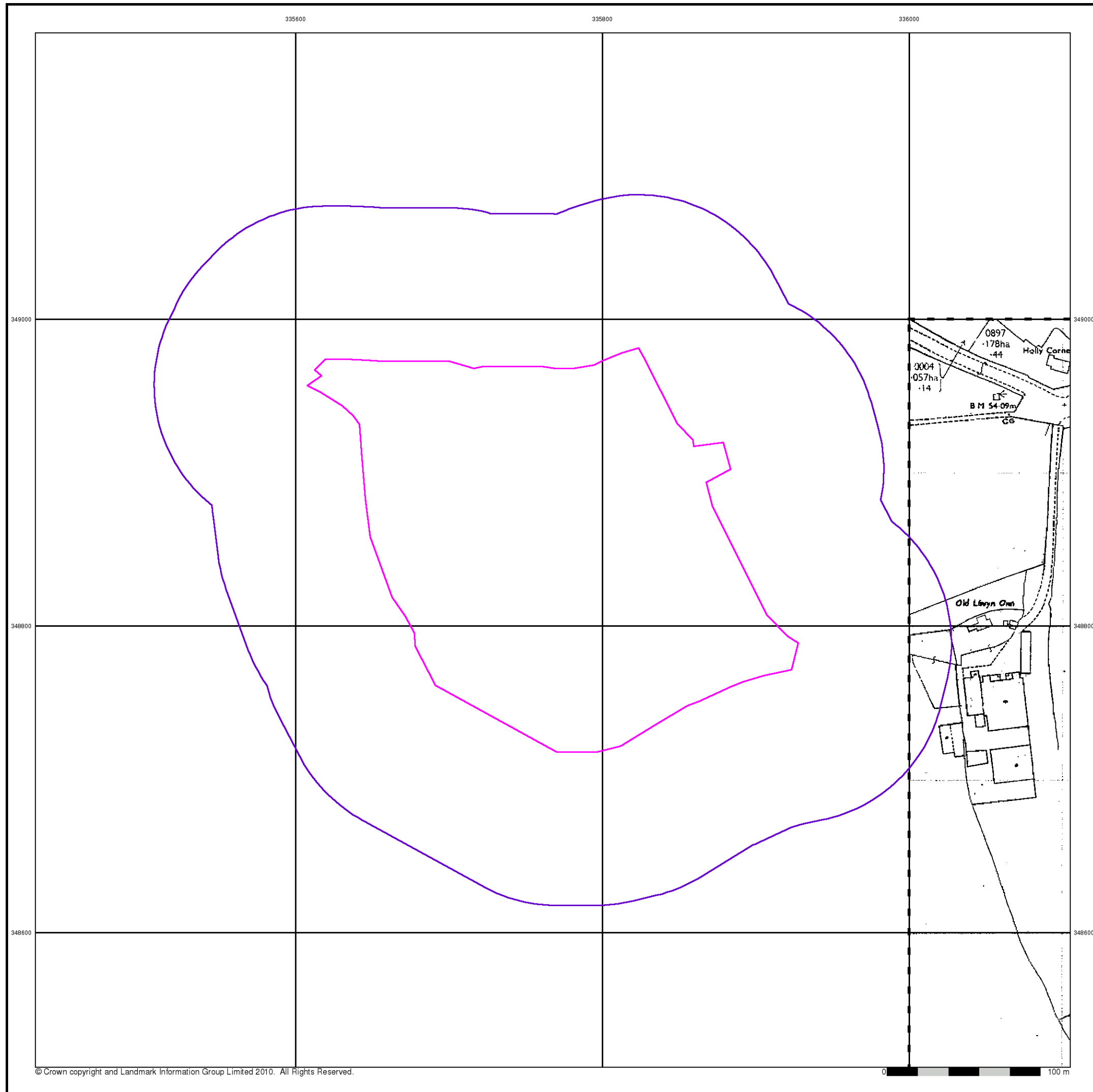


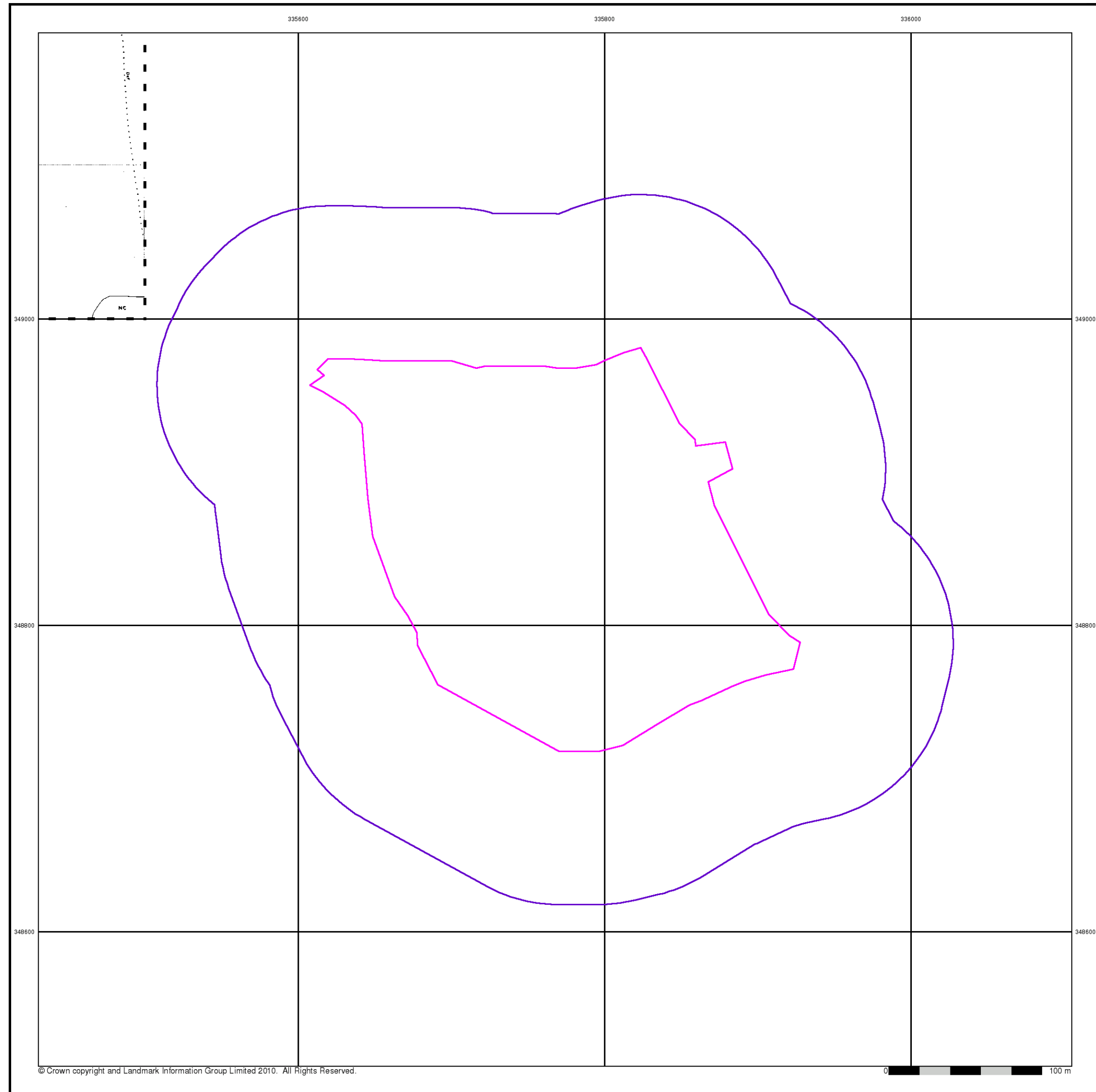
Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 100

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



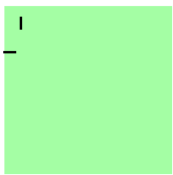


Additional SIMs
Published 1990
Source map scale - 1:1,250

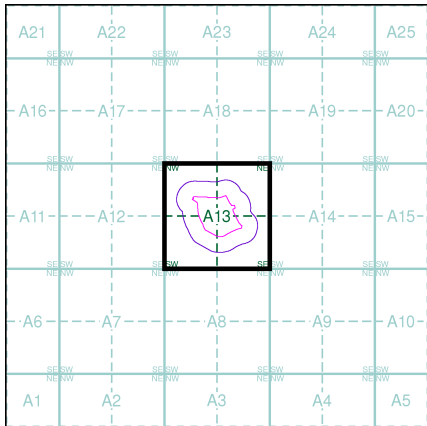
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SJ3549SW
1990
1:1,250



Historical Map - Segment A13

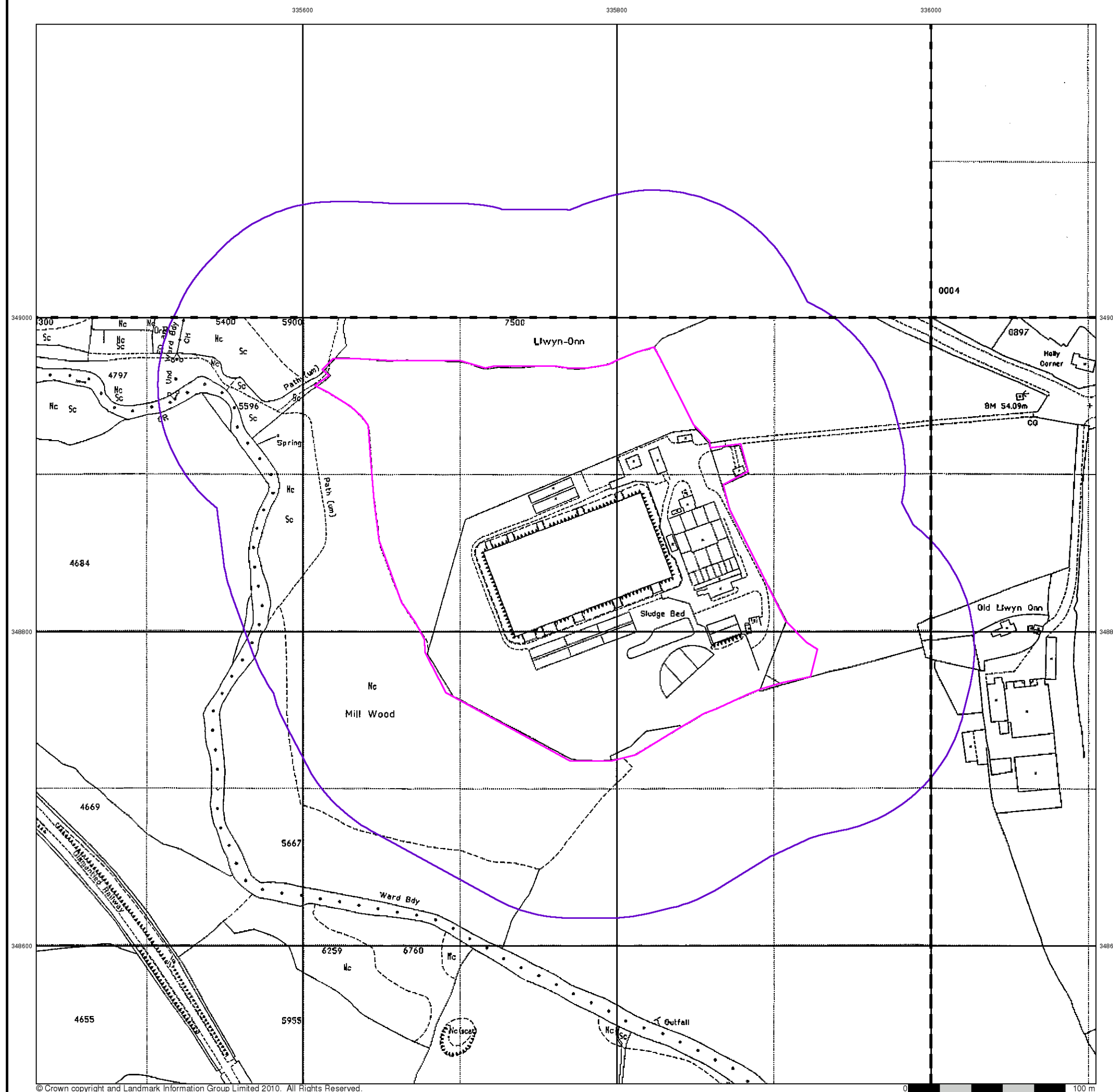
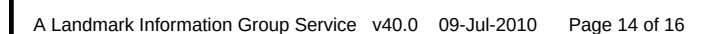


Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 100

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham





Large-Scale National Grid Data

Published 1992

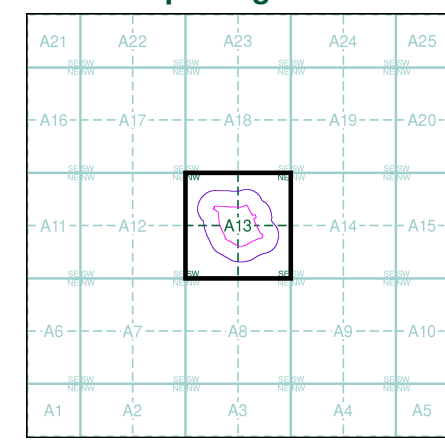
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SJ3549SW	SJ3549SE
1992	1992
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
National Grid Reference: 335770, 348860
Slice: A
Site Area (Ha): 5.32
Search Buffer (m): 100

Site Details

Site at 335760, 348880, Llwyn Onn WTW, Cefn Road, Wrexham



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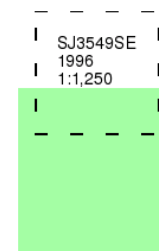
Large-Scale National Grid Data

Published 1996

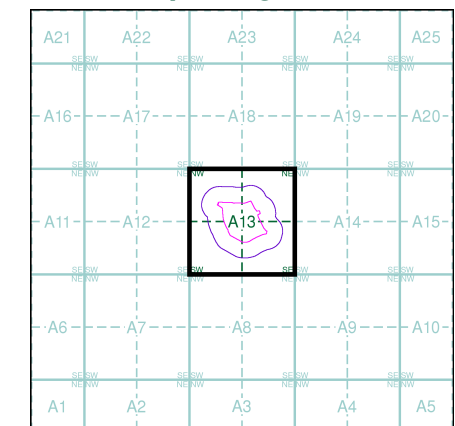
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 31821026_1_1
Customer Ref: 121620
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