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ARP GEOTECHNICAL LTD

Artificial Ground and Landslip

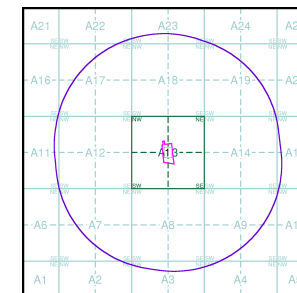
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial Ground and Landslip Map - Slice A



Order Details:

Order Number: 258580487_1_1
 Customer Reference: LEG/03
 National Grid Reference: 579700, 188600
 Slice: A
 Site Area (Ha): 1.67
 Search Buffer (m): 1000

Site Details:

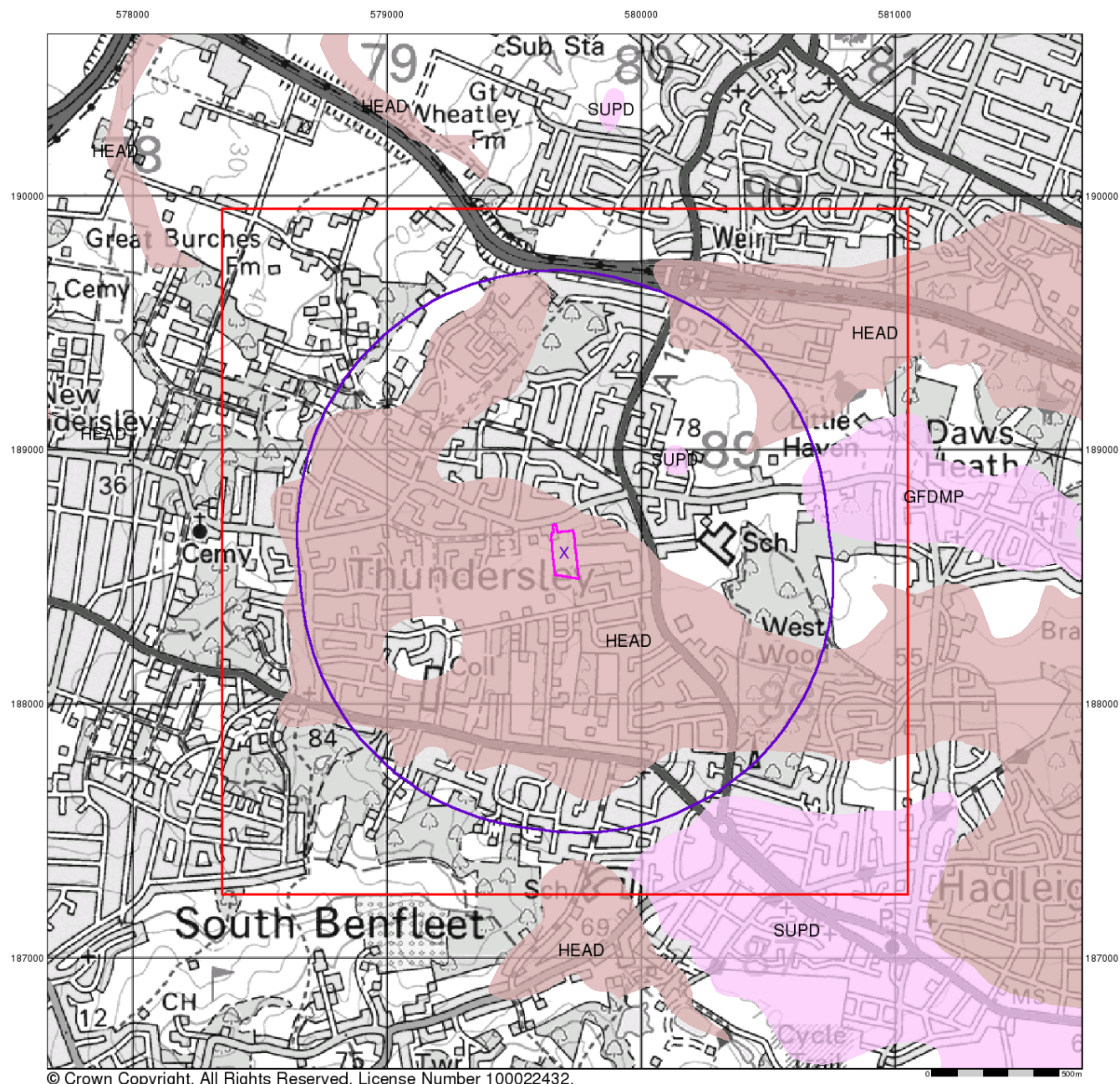
Hart Road, Thundersley, Essex



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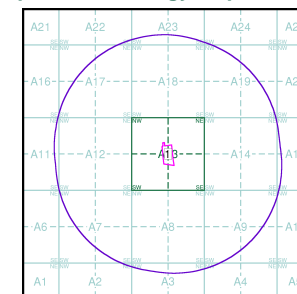
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, 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



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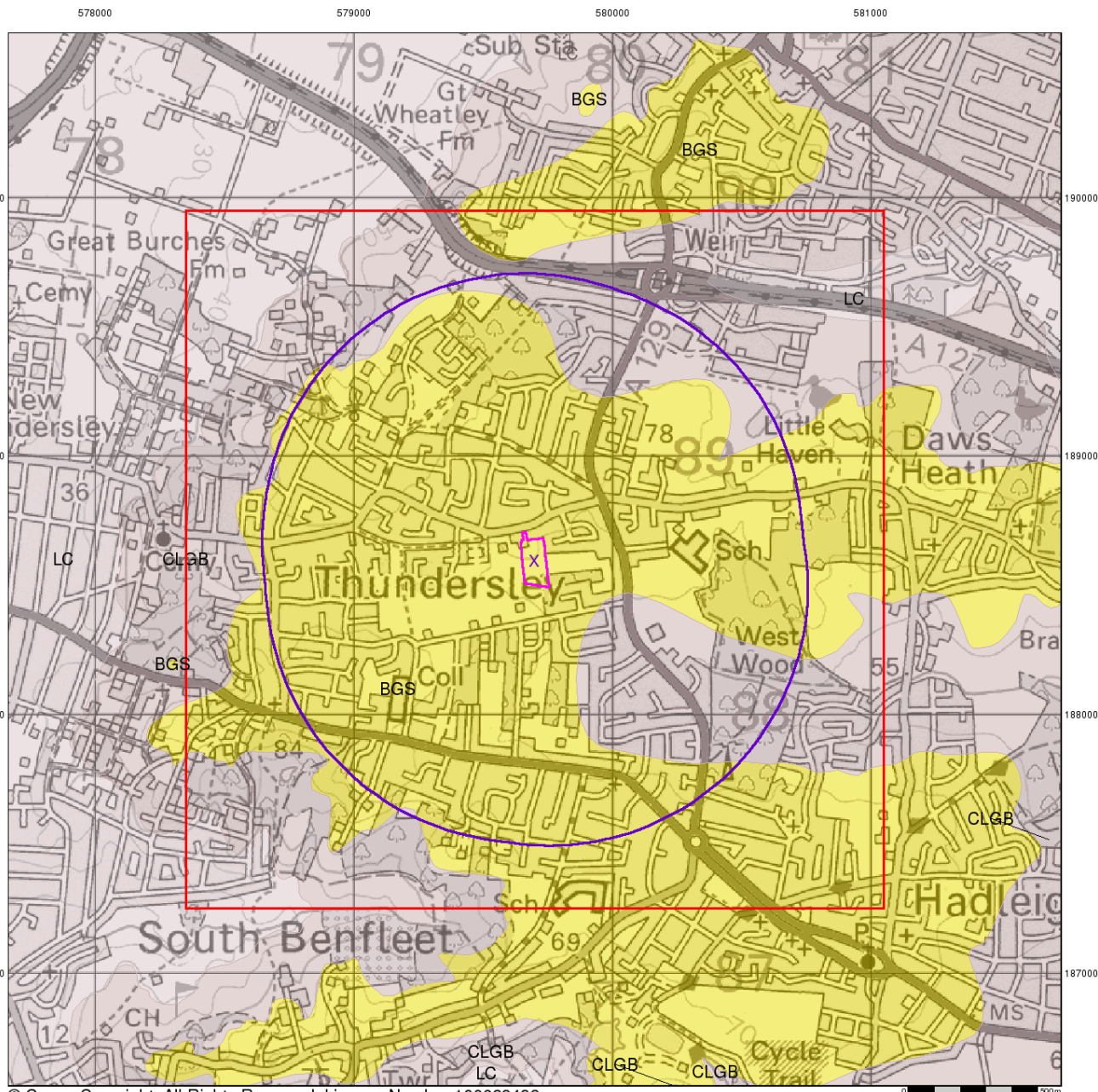
Hart Road, Thundersley, Essex

Landmark
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Bedrock and Faults

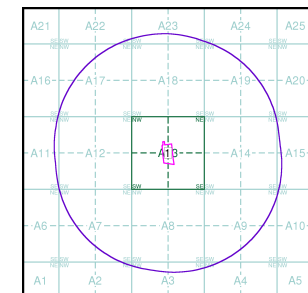
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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 (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A

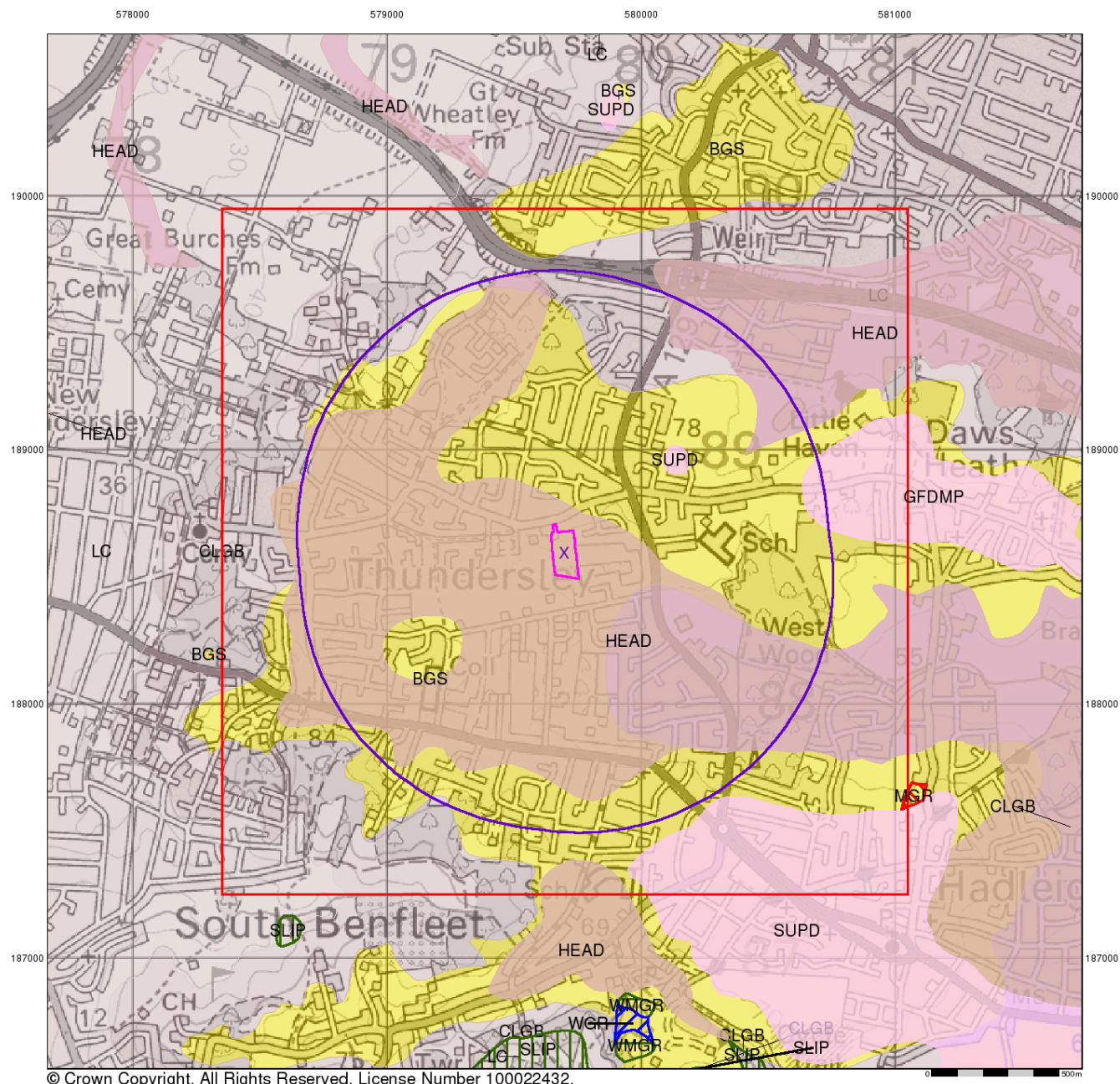


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Hart Road, Thundersley, Essex



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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.

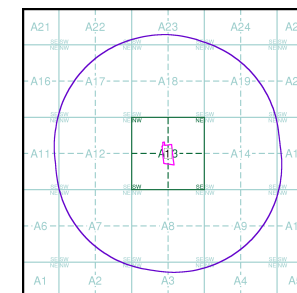
Additional Information

More information on 1:50,000 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



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APPENDIX D

LANDMARK ENVIROCHECK REPORT

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

258580487_1_1

Customer Reference:

LEG/03

National Grid Reference:

579700, 188600

Slice:

A

Site Area (Ha):

1.67

Search Buffer (m):

1000

Site Details:

Hart Road
Thundersley
Essex

Client Details:

Mr J Race
ARP Geotechnical Ltd
Northwest House
5-6 Northwest Business Park
Servia Hill
Leeds
LS6 2QH

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	11
Hazardous Substances	-
Geological	12
Industrial Land Use	14
Sensitive Land Use	20
Data Currency	21
Data Suppliers	26
Useful Contacts	27

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/Natural Resources Wales 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 this 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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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		2		6
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
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	pg 3		1		2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature		Yes			
Pollution Incidents to Controlled Waters	pg 3		2		6
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 5				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 5				4 (*4)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 7	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				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
OS Water Network Lines	pg 7	1	9	5	16

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 11	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
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 1:625,000 Solid Geology	pg 12	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 12			1	1
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 12	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 12	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 12	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 13	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 14		4	7	52
Fuel Station Entries	pg 19				1
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 20				1
Areas of Adopted Green Belt	pg 20	1		1	
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	pg 20			1	
Ramsar Sites					
Sites of Special Scientific Interest	pg 20			1	
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (N)	0	1	579698 188596
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	0	1	579698 188650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (SE)	173	1	579900 188400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	216	1	579850 188300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	246	1	580000 188596
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (SE)	250	1	580000 188450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	258	1	580000 188600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	357	1	579850 188150
1	Discharge Consents Operator: Essex County Council(Highways Dept) Property Type: Not Supplied Location: Hart Road, Thundersley, Essex Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr2nfe08465 Permit Version: 1 Effective Date: 14th June 1965 Issued Date: 14th June 1965 Revocation Date: 12th February 1992 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Unknown Trib. River Roach Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13SW (W)	150	2	579500 188600
1	Discharge Consents Operator: Essex County Council(Highways Dept.) Property Type: Undefined Or Other Location: Hart Road, Thundersley, Essex Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr2nfe08465 Permit Version: 1 Effective Date: 14th June 1965 Issued Date: 14th June 1965 Revocation Date: 12th February 1992 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Unknown Trib. River Roach Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13SW (W)	150	2	579500 188600
2	Discharge Consents Operator: The Residents Property Type: Not Supplied Location: East Of Rayleigh Road, Thundersley, Essex Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr2nfe01670 Permit Version: 1 Effective Date: 15th March 1970 Issued Date: 15th March 1970 Revocation Date: 24th February 1993 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	582	2	580000 189200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: The Residents Property Type: Not Supplied Location: Res. Devlpt At Queensmere, Thundersly, Essex Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr2nfe00868 Permit Version: 1 Effective Date: 22nd January 1968 Issued Date: 22nd January 1968 Revocation Date: 25th February 1993 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Prittle Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	665	2	580200 188000
3	Discharge Consents Operator: Castle Point D.C. Property Type: Not Supplied Location: Res. Devlpt At Queensmere, Thundersly, Essex Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr2nfe19467 Permit Version: 1 Effective Date: 20th November 1967 Issued Date: 20th November 1967 Revocation Date: 12th February 1992 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Prittlebrook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	665	2	580200 188000
4	Discharge Consents Operator: Mr & Mrs Keen Property Type: Domestic Property (Single) Location: Bracken Dell Great Burches Road, Benfleet, Essex, Ss7 3lx Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr2lfs24872 Permit Version: 1 Effective Date: 27th October 1972 Issued Date: 27th October 1972 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	832	2	579051 189281
5	Discharge Consents Operator: Maureen Smith Property Type: Domestic Property (Single) Location: 60a Goldfinch Lane Goldfinch Lane, Thundersley, Essex, Essex, Ss7 3qt Authority: Environment Agency, Anglian Region Catchment Area: River Crouch / Crouch Estuary Reference: Npswqd003688 Permit Version: 1 Effective Date: 15th August 2008 Issued Date: 15th August 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of The River Crouch Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	851	2	579211 189433

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Mr Dean Rayment Property Type: Domestic Property (Single) Location: 60b Goldfinch Lane, Thundersley, Essex, Ss7 3lq Authority: Environment Agency, Anglian Region Catchment Area: River Crouch / Crouch Estuary Reference: Npswqd000695 Permit Version: 1 Effective Date: 21st January 2008 Issued Date: 21st January 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of R.Crouch Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	938	2	579130 189484
7	Local Authority Pollution Prevention and Controls Name: Essex Car Sales Location: Woodmans Garage, 343 Rayleigh Road, BENFLEET, Essex, SS7 3XA Authority: Castle Point Borough Council, Environmental Health Services Permit Reference: LAPPC 2/2006 Dated: 15th March 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Permitted Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	219	3	579934 188769
8	Local Authority Pollution Prevention and Controls Name: Shell Benfleet Location: 179 Kiln Road, Thundersley, BENFLEET, Essex, SS7 1SJ Authority: Castle Point Borough Council, Environmental Health Services Permit Reference: EPR/B/1.2/SHELLBENFLEET Dated: 30th April 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A8SE (S)	679	3	579721 187816
9	Local Authority Pollution Prevention and Controls Name: Sainsbury'S Petrol Filling Station Location: Stadium Way, RayleighWeir, BENFLEET, Essex, SS7 3AB Authority: Castle Point Borough Council, Environmental Health Services Permit Reference: LAPPC 3/2009 Dated: 26th January 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Manually positioned to the address or location	A19NW (NE)	925	3	580274 189433
	Nearest Surface Water Feature	A13SW (S)	0	-	579683 188504
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: THUNDERSLEY Authority: Environment Agency, Anglian Region Pollutant: Oils - Waste Oil Note: Tributary Of Prittle Brook Incident Date: 9th April 1997 Incident Reference: 3371 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	146	2	579900 188500
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Chelmsford District Authority: Environment Agency, Anglian Region Pollutant: Oils - Waste Oil Note: Prittle Brook Tributary Incident Date: 9th April 1997 Incident Reference: 3371 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	146	2	579900 188495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Chelmsford District Authority: Environment Agency, Anglian Region Pollutant: Chemicals - Paints / Dyes Note: Prittle Brook Incident Date: 18th March 1996 Incident Reference: 3000 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	620	2	580300 188200
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Chelmsford District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Prittle Brook Incident Date: 26th August 1992 Incident Reference: 1662 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	673	2	580300 188100
13	Pollution Incidents to Controlled Waters Property Type: Industrial: Other Location: SOUTH BENFLEET Authority: Environment Agency, Anglian Region Pollutant: Oils - Vegetable Oil Note: Prittle Brook Incident Date: 4th April 1997 Incident Reference: 3350 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	709	2	579900 187800
13	Pollution Incidents to Controlled Waters Property Type: Industrial: Other Location: Chelmsford District Authority: Environment Agency, Anglian Region Pollutant: Oils - Vegetable Oil Note: Prittle Brook Incident Date: 4th April 1997 Incident Reference: 3350 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	714	2	579900 187795
14	Pollution Incidents to Controlled Waters Property Type: Petrol/Fuelling Stations Location: Chelmsford District, HADLEIGH Authority: Environment Agency, Anglian Region Pollutant: Oils - Diesel (Including Agricultural) Note: Prittle Brook Incident Date: 2nd February 1999 Incident Reference: 4011 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Overfilling During Delivery Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	710	2	580400 188200
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Chelmsford District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Psw Incident Date: 4th October 1992 Incident Reference: 1708 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	755	2	578900 188800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Prittle Brk GQA Grade: River Quality C Reach: Headwaters...Tidal Limit Estimated Distance (km): 11 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A9SE (SE)	883	2	580396 187887
16	Water Abstractions Operator: P.Cook & Sons Licence Number: 8/37/44/*s/058 Permit Version: Not Supplied Location: Tributary Eastwood Bk, THUNDERSLEY Authority: Environment Agency, Anglian Region Abstraction: Impounding Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 4 Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	737	2	580400 188995
16	Water Abstractions Operator: P Cook & Sons Licence Number: 8/37/44/*S/0058 Permit Version: 100 Location: Trib. Eastwood Bk. Thundersley Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 1st September 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	739	2	580400 189000
17	Water Abstractions Operator: P.Cook & Sons Licence Number: 8/37/44/**/058 Permit Version: Not Supplied Location: Dawsheath Road, THUNDERSLEY Authority: Environment Agency, Anglian Region Abstraction: Impounding Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 20 Yearly Rate (m3): 3660 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	961	2	580600 189095
17	Water Abstractions Operator: P.Cook & Sons Licence Number: 8/37/44/**/058 Permit Version: Not Supplied Location: Dawsheath Road, THUNDERSLEY Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 20 Yearly Rate (m3): 3660 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	963	2	580600 189100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Essex Wildlife Trust Licence Number: 8/37/44/*S/0078 Permit Version: 1 Location: Ditch Tributary Of River Roach & Canvey Catchment Authority: Environment Agency, Anglian Region Abstraction: Environmental: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Daws Heath, Benfleet, Essex Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 19th February 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20NE (NE)	1680	2	581200 189500
	Water Abstractions Operator: MrMr J Armitage Licence Number: 8/37/44/*S/0075/R01 Permit Version: 1 Location: Prittle Brook At Hadleigh Authority: Environment Agency, Anglian Region Abstraction: Amenity: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 1st April 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1727	2	581431 188080
	Water Abstractions Operator: MrMr J Armitage Licence Number: 8/37/44/*S/0075 Permit Version: 100 Location: Prittle Brook At Hadleigh Authority: Environment Agency, Anglian Region Abstraction: Amenity: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Temporary Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 1st March 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1727	2	581431 188080
	Water Abstractions Operator: Messrs F H Parker + Sons, Licence Number: 8/37/44/*I/062 Permit Version: Not Supplied Location: Hilltop Farm, BENFLEET Authority: Environment Agency, Anglian Region Abstraction: Impounding Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SW)	1912	2	578800 186800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Mixed Dilution: <300 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SW (N)	0	4	579698 188596
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (N)	0	4	579698 188596
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SW (N)	0	4	579698 188596
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 402.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A13SW (S)	0	5	579683 188504
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 138.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A13SW (W)	104	5	579540 188598
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A13NW (W)	111	5	579532 188664
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A13NW (W)	111	5	579532 188664

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A13SW (SW)	118	5	579538 188529
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A13SW (SW)	120	5	579544 188480
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A13SE (E)	158	5	579900 188599
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A13SE (E)	160	5	579909 188537
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 203.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A13SW (W)	245	5	579416 188480
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 312.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A13SE (SE)	248	5	579997 188448
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A12SE (W)	448	5	579213 188471
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 439.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A8NE (S)	466	5	579749 188028
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A8NE (S)	494	5	579919 188028

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 458.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A8NE (S)	494	5	579919 188028
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 173.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A8NE (S)	499	5	579917 188022
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 267.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A9NW (SE)	544	5	580243 188255
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A8NW (S)	578	5	579565 187938
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A8NW (S)	589	5	579565 187927
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 242.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A19SW (NE)	680	5	580358 188949
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A9NW (SE)	725	5	580369 188110
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 278.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A9NE (SE)	808	5	580466 188112
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A17NE (NW)	881	5	579071 189368

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A17NE (NW)	894	5	579093 189403
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A19SE (NE)	905	5	580559 189052
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A19SE (NE)	905	5	580559 189050
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 191.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A19SE (NE)	907	5	580557 189061
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A17NE (NW)	926	5	579068 189424
45	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 4.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A17NE (NW)	973	5	579042 189462
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 183.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A7SW (SW)	973	5	578947 187846
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 248.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A17NE (NW)	975	5	579048 189471
48	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 16.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Crouch and Roach Primacy: 1	A17NE (NW)	976	5	579042 189467

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Castle Point District Council - Has supplied landfill data		0	3	579698 188596
	Local Authority Landfill Coverage Name: Essex County Council - Has supplied landfill data		0	6	579698 188596

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Bracklesham Group And Barton Group (Undifferentiated)	A13SW (N)	0	1	579698 188596
49	BGS Recorded Mineral Sites Site Name: Thundersley Brick And Tile Works Location: Thundersley, Benfleet, Essex Source: British Geological Survey, National Geoscience Information Service Reference: 181957 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Bagshot Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18SW (N)	390	1	579554 189081
50	BGS Recorded Mineral Sites Site Name: Thundersley Lodge Gravel Pit Location: Thundersley, Benfleet, Essex Source: British Geological Survey, National Geoscience Information Service Reference: 181964 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Bagshot Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	639	1	579115 188173
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	579698 188596
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	246	1	580000 188596
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	579698 188596
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	246	1	580000 188596
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	579698 188596
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	246	1	580000 188596
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	579698 188596
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	246	1	580000 188596
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	579698 188596
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	75	1	579772 188747
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	246	1	580000 188596

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	579698 188596
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	75	1	579772 188747
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	203	1	579944 188408
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	246	1	580000 188596
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	249	1	580000 188454
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	579698 188596
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	579698 188596

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	Contemporary Trade Directory Entries Name: Butterflies Ironing Service Location: 284, Hart Road, Benfleet, Essex, SS7 3UQ Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	77	-	579788 188737
52	Contemporary Trade Directory Entries Name: Alternative Vehicle Inspections Ltd Location: 66, Woodlow, Benfleet, Essex, SS7 3RH Classification: Vehicle Inspection Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	174	-	579564 188855
53	Contemporary Trade Directory Entries Name: E C O Clean Location: 306, Hart Road, Benfleet, Essex, SS7 3UP Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	174	-	579881 188773
54	Contemporary Trade Directory Entries Name: Essex Car Sales Location: 343, Rayleigh Road, Benfleet, SS7 3XA Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	219	-	579934 188768
55	Contemporary Trade Directory Entries Name: Oven Sprite Location: 43, Triton Way, Benfleet, Essex, SS7 3RD Classification: Oven cleaning Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	253	-	579499 188906
56	Contemporary Trade Directory Entries Name: G I Logistics Ltd Location: 378, Rayleigh Road, Benfleet, Essex, SS7 3TA Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	299	-	579930 188908
57	Contemporary Trade Directory Entries Name: Service Master Location: 31, Alderleys, Benfleet, SS7 3QZ Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	304	-	579428 188911
58	Contemporary Trade Directory Entries Name: Thundersley Cleaning Services Location: 100, The Rundels, Benfleet, Essex, SS7 3QL Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	316	-	579332 188606
59	Contemporary Trade Directory Entries Name: Home Appliance Location: 286, Rayleigh Road, Benfleet, SS7 3XE Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (E)	331	-	580075 188582
60	Contemporary Trade Directory Entries Name: Ozee Ltd Location: 18, Corasway, Benfleet, Essex, SS7 3DW Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	335	-	580003 188269
61	Contemporary Trade Directory Entries Name: Easicleaning Location: 2b, Queensmere, Benfleet, Essex, SS7 3XR Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	472	-	580097 188170
62	Contemporary Trade Directory Entries Name: Home Appliance Location: Flat 10, Wisteria Court, 186, Rayleigh Road, Benfleet, Essex, SS7 3YP Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	512	-	580175 188202

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	Contemporary Trade Directory Entries Name: United Carpet Cleaning Masters Location: B,4 Hart Rd, Benfleet, Essex, SS7 3PF Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12NE (NW)	525	-	579143 188842
63	Contemporary Trade Directory Entries Name: Castle Point Cars Location: 106-116, Hart Road, Benfleet, Essex, SS7 3PS Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	545	-	579113 188802
63	Contemporary Trade Directory Entries Name: Thundersley M O T Location: 106-116, Hart Road, Benfleet, Essex, SS7 3PS Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	545	-	579113 188802
63	Contemporary Trade Directory Entries Name: Fentons Location: 106-116, Hart Road, Benfleet, Essex, SS7 3PS Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	545	-	579113 188802
64	Contemporary Trade Directory Entries Name: Carpet Cleaning Location: 40, Common Approach, Benfleet, Essex, SS7 3LA Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	556	-	579224 189061
65	Contemporary Trade Directory Entries Name: Robin Wolf Logistics Location: 86, Daws Heath Road, Benfleet, Essex, SS7 2TA Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	580	-	580306 188767
66	Contemporary Trade Directory Entries Name: S & M Recovery Location: 103, Hart Road, Benfleet, Essex, SS7 3PR Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	594	-	579071 188837
67	Contemporary Trade Directory Entries Name: D R K Steel Reinforcement Ltd Location: 83, Hart Road, Benfleet, Essex, SS7 3PB Classification: Concrete Reinforcements Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	628	-	579023 188766
68	Contemporary Trade Directory Entries Name: Thundersley Cleaning Services Location: 49, Broadlands, Benfleet, Essex, SS7 3BD Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	632	-	579029 188469
69	Contemporary Trade Directory Entries Name: Torch Fireplaces Ltd Location: 17, Broadlands, Benfleet, Essex, SS7 3BD Classification: Woodburning Stoves Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	642	-	579007 188579
70	Contemporary Trade Directory Entries Name: Shell Benfleet Location: 171, Kiln Road, Benfleet, SS7 1SJ Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	672	-	579680 187826
70	Contemporary Trade Directory Entries Name: Shell Service Station Location: 171, Kiln Road, Benfleet, SS7 1SJ Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	672	-	579680 187826

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	Contemporary Trade Directory Entries Name: White Heather Motoring Centre Location: 179, Kiln Road, Benfleet, Essex, SS7 1SJ Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	679	-	579721 187816
71	Contemporary Trade Directory Entries Name: Kerry Darcy Location: 51, Parkfields, Benfleet, Essex, SS7 3YU Classification: Soft Furnishings - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (SE)	677	-	580013 187868
72	Contemporary Trade Directory Entries Name: Abstrip Ltd Location: Unit 27, Great Burches Rd, Benfleet, Essex, SS7 3ND Classification: Asbestos Products & Removal Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SE (NW)	687	-	579108 189126
73	Contemporary Trade Directory Entries Name: Gillians Ironing Service Location: 53, Kings Park, Benfleet, Essex, SS7 3AY Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	699	-	578963 188449
74	Contemporary Trade Directory Entries Name: Fire Place & Design Location: 132, Kiln Road, Benfleet, Essex, SS7 1TJ Classification: Fireplaces & Mantelpieces Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	738	-	579382 187825
74	Contemporary Trade Directory Entries Name: Fireplaces (Uk) Location: 130-134, Kiln Road, Benfleet, Essex, SS7 1TE Classification: Fireplaces & Mantelpieces Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	742	-	579360 187830
74	Contemporary Trade Directory Entries Name: Heart Of The Home Fireplaces Location: 130-134, Kiln Road, Benfleet, Essex, SS7 1TE Classification: Fireplaces & Mantelpieces Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	742	-	579360 187830
75	Contemporary Trade Directory Entries Name: Astec Domestic Services Location: 23, Park Road, Benfleet, Essex, SS7 3PP Classification: Washing Machines - Servicing & Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	750	-	578909 188821
76	Contemporary Trade Directory Entries Name: Jarest Pcb Designs Location: 50, The Chase, BENFLEET, Essex, SS7 3BS Classification: Printed Circuit Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	767	-	578923 188294
77	Contemporary Trade Directory Entries Name: Domestic Sisters Location: Kempton Clo, Benfleet, Essex, SS7 3SG Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18NE (N)	782	-	579908 189450
78	Contemporary Trade Directory Entries Name: Blue Rose Press Location: 3, Cranbrook Avenue, Benfleet, Essex, SS7 3YX Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	804	-	580099 187768
79	Contemporary Trade Directory Entries Name: Park Office Consultancy Location: 529 Rayleigh Road, Benfleet, Essex, SS7 3TN Classification: Office Furniture & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (N)	822	-	580042 189445

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	Contemporary Trade Directory Entries Name: Marigold Industrial Catering Services Ltd Location: 533, Rayleigh Road, Benfleet, Essex, SS7 3TN Classification: Catering Equipment - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (N)	852	-	580045 189476
79	Contemporary Trade Directory Entries Name: Personalised Prints Ltd Location: 533, Rayleigh Road, BENFLEET, Essex, SS7 3TN Classification: Printers Textile Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (N)	852	-	580045 189476
79	Contemporary Trade Directory Entries Name: Beckett Instruments Ltd Location: 533, Rayleigh Road, Benfleet, Essex, SS7 3TN Classification: Medical Instruments - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (N)	852	-	580045 189476
79	Contemporary Trade Directory Entries Name: Digital Printing Location: 533, Rayleigh Road, Benfleet, Essex, SS7 3TN Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19NW (N)	852	-	580045 189476
79	Contemporary Trade Directory Entries Name: Aa Service Centre Location: 543-557, Rayleigh Road, Benfleet, Essex, SS7 3TN Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (N)	897	-	580044 189524
79	Contemporary Trade Directory Entries Name: Aa Service Centre Location: 543-557, Rayleigh Road, Benfleet, Essex, SS7 3TN Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (N)	897	-	580044 189524
79	Contemporary Trade Directory Entries Name: Halfords Autocentre Location: 543-557, Rayleigh Road, Benfleet, SS7 3TN Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (N)	897	-	580044 189524
80	Contemporary Trade Directory Entries Name: Thundersley Ironing Services Location: 29, Hart Road, Benfleet, Essex, SS7 3PB Classification: Ironing & Home Laundry Services Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	838	-	578806 188694
80	Contemporary Trade Directory Entries Name: Castle Point Gas & Heating Ltd Location: 21, Hart Road, Benfleet, Essex, SS7 3PB Classification: Gas Appliances - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	867	-	578776 188689
80	Contemporary Trade Directory Entries Name: D Scarli Location: 25, Hart Road, Benfleet, Essex, SS7 3PB Classification: Jewellery Manufacturers & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	867	-	578776 188689
81	Contemporary Trade Directory Entries Name: Essex Auto Group Location: 8 Stadium Way, Benfleet, Essex, SS7 3NL Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	845	-	580194 189391
81	Contemporary Trade Directory Entries Name: Essex Auto Group Location: 8, Stadium Way, Benfleet, Essex, SS7 3NL Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	845	-	580194 189391

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	Contemporary Trade Directory Entries Name: Victoria House Fireplaces Ltd Location: 259-261, Kiln Road, Benfleet, Essex, SS7 1RU Classification: Fireplaces & Mantelpieces Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	863	-	580111 187709
82	Contemporary Trade Directory Entries Name: Birdy Local Location: 265a, Kiln Road, Benfleet, SS7 1RU Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	881	-	580126 187695
82	Contemporary Trade Directory Entries Name: Birdy Local Location: Hadleigh, Benfleet, Essex, SS7 2PA Classification: Damp & Dry Rot Control Status: Active Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	881	-	580126 187695
82	Contemporary Trade Directory Entries Name: Am Pm Iron Furnishings Location: 273, Kiln Road, Benfleet, Essex, SS7 1RU Classification: Wrought Ironwork Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	904	-	580142 187678
82	Contemporary Trade Directory Entries Name: Mr Window Location: 275, Kiln Road, Benfleet, SS7 1QS Classification: Window Frame Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	909	-	580147 187674
83	Contemporary Trade Directory Entries Name: Guilder Cleaning Services Location: 11, Windsor Gardens, Benfleet, Essex, SS7 3YF Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	868	-	580270 187795
84	Contemporary Trade Directory Entries Name: Sainsbury'S Petrol Station Location: 21 Stadium Way, Benfleet, Essex, SS7 3UB Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	928	-	580266 189442
85	Contemporary Trade Directory Entries Name: Simon Hope Location: 6, Kingsley Lane, BENFLEET, Essex, SS7 3TU Classification: Fireplaces & Mantelpieces Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (N)	945	-	580076 189564
86	Contemporary Trade Directory Entries Name: Essex Domestic Appliances Location: 37, Glenmere Park Avenue, Benfleet, Essex, SS7 1SS Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A3NW (S)	949	-	579683 187548
87	Contemporary Trade Directory Entries Name: Holdem Cars Location: 40-42, Stadium Trading Estate, Stadium Way, Benfleet, Essex, SS7 3NZ Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NE (NE)	950	-	580423 189336
88	Contemporary Trade Directory Entries Name: Thames Loose Leaf Location: 289, Kiln Road, Benfleet, SS7 1QS Classification: Plastic Products - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	961	-	580211 187648
89	Contemporary Trade Directory Entries Name: Castle Point Waste Ltd Location: 18, Bradley Avenue, Benfleet, Essex, SS7 3AG Classification: Rubbish Clearance Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	980	-	578804 188030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	Contemporary Trade Directory Entries Name: Print Finishing Services (Essex) Ltd Location: 37, Borrowdale Close, Benfleet, Essex, SS7 3HE Classification: Print Finishers Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (W)	983	-	578669 188797
91	Contemporary Trade Directory Entries Name: Rayleigh Cleaning Services Location: 5, Arterial Road, Rayleigh, Essex, SS6 7TR Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	987	-	579939 189654
92	Contemporary Trade Directory Entries Name: Thundersley Clinic Location: Thundersley Clinic, 8, Kenneth Road, Benfleet, Essex, SS7 3AT Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (W)	988	-	578657 188612
93	Fuel Station Entries Name: Shell Benfleet Location: 171-175, Kiln Road , , Thundersley, Essex, SS7 1SJ Brand: Shell Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A8SE (S)	673	-	579738 187821

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	Ancient Woodland Name: West Wood Reference: 1120635 Area(m²): 397207.7 Type: Ancient and Semi-Natural Woodland	A14SW (E)	548	7	580300 188457
95	Areas of Adopted Green Belt Authority: Castle Point Borough Council Plan Name: Castle Point Borough Council Local Plan Status: Adopted Plan Date: 17th November 1998	A13SW (N)	0	8	579698 188596
96	Areas of Adopted Green Belt Authority: Castle Point Borough Council Plan Name: Castle Point Borough Council Local Plan Status: Adopted Plan Date: 17th November 1998	A18SW (N)	381	8	579517 189060
97	Nitrate Vulnerable Zones Name: River Roach, Nobles Ditch And Eastwood Brook Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NE (NE)	339	4	580031 188843
98	Sites of Special Scientific Interest Name: Thundersley Great Common Multiple Areas: Y Total Area (m2): 90003.08 Source: Natural England Reference: 1002282 Designation Details: Site Of Special Scientific Interest Designation Date: 1st October 1987 Date Type: Notified	A18SW (NW)	472	7	579371 189084

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Basildon District Council - Environmental Health Department Environment Agency - Head Office Chelmsford Borough Council - Environmental Health Department Castle Point Borough Council - Environmental Health Services Southend-on-Sea Borough Council - Environmental Health Services Rochford District Council - Environmental Health Department	January 2020 June 2020 March 2015 October 2014 October 2014 September 2014	Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region	July 2020	Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Anglian Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - Anglian Region Environment Agency - South East Region - Kent & South London Area	July 2020 July 2020	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Castle Point Borough Council - Environmental Health Services Southend-on-Sea Borough Council - Environmental Health Services Basildon District Council - Environmental Health Department Chelmsford Borough Council - Environmental Health Department London Port Health Authority - Environmental Services Rochford District Council - Environmental Health Department	January 2015 January 2015 May 2016 October 2014 October 2014 September 2014	Variable Variable Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls Castle Point Borough Council - Environmental Health Services Southend-on-Sea Borough Council - Environmental Health Services Basildon District Council - Environmental Health Department London Port Health Authority - Environmental Services Chelmsford Borough Council - Environmental Health Department Rochford District Council - Environmental Health Department	January 2015 January 2015 May 2016 October 2014 October 2014 September 2014	Not Applicable Not Applicable Not Applicable Annual Rolling Update Not Applicable Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Castle Point Borough Council - Environmental Health Services Southend-on-Sea Borough Council - Environmental Health Services Basildon District Council - Environmental Health Department Chelmsford Borough Council - Environmental Health Department London Port Health Authority - Environmental Services Rochford District Council - Environmental Health Department	January 2015 January 2015 May 2016 October 2014 October 2014 September 2014	Variable Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	August 2020	
Pollution Incidents to Controlled Waters Environment Agency - Anglian Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - Anglian Region	June 2016	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually

Agency & Hydrological	Version	Update Cycle
Substantiated Pollution Incident Register Environment Agency - Anglian Region - Eastern Area Environment Agency - South East Region - Kent & South London Area	July 2020 July 2020	Quarterly Quarterly
Water Abstractions Environment Agency - Anglian Region	July 2020	Quarterly
Water Industry Act Referrals Environment Agency - Anglian Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	September 2020	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	September 2020	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	September 2020	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	September 2020	Quarterly
Flood Defences Environment Agency - Head Office	September 2020	Quarterly
OS Water Network Lines Ordnance Survey	June 2020	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	October 2019	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Anglian Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Anglian Region - Eastern Area Environment Agency - South East Region - Kent & South London Area	July 2020 July 2020	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Anglian Region - Eastern Area Environment Agency - South East Region - Kent & South London Area	July 2020 July 2020	Quarterly Quarterly
Local Authority Landfill Coverage Basildon District Council Castle Point Borough Council - Environmental Health Services Chelmsford Borough Council - Environmental Health Department Essex County Council Rochford District Council - Environmental Health Department Southend-on-Sea Borough Council - Environmental Health Services	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Basildon District Council Castle Point Borough Council - Environmental Health Services Chelmsford Borough Council - Environmental Health Department Southend-on-Sea Borough Council - Environmental Health Services Rochford District Council - Environmental Health Department Essex County Council	May 2000 May 2000 May 2000 May 2000 May 2003 November 2004	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Basildon District Council Castle Point Borough Council Chelmsford Borough Council Essex County Council Rochford District Council - Planning Services Southend-on-Sea Borough Council - Development Control London Port Health Authority - Environmental Services	February 2016 February 2016 February 2016 February 2016 February 2016 February 2016 January 2008	Variable Variable Variable Variable Variable Variable Annual Rolling Update
Planning Hazardous Substance Consents Basildon District Council Castle Point Borough Council Chelmsford Borough Council Essex County Council Rochford District Council - Planning Services Southend-on-Sea Borough Council - Development Control London Port Health Authority - Environmental Services	February 2016 February 2016 February 2016 February 2016 February 2016 February 2016 January 2008	Variable Variable Variable Variable Variable Variable Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	June 2020	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

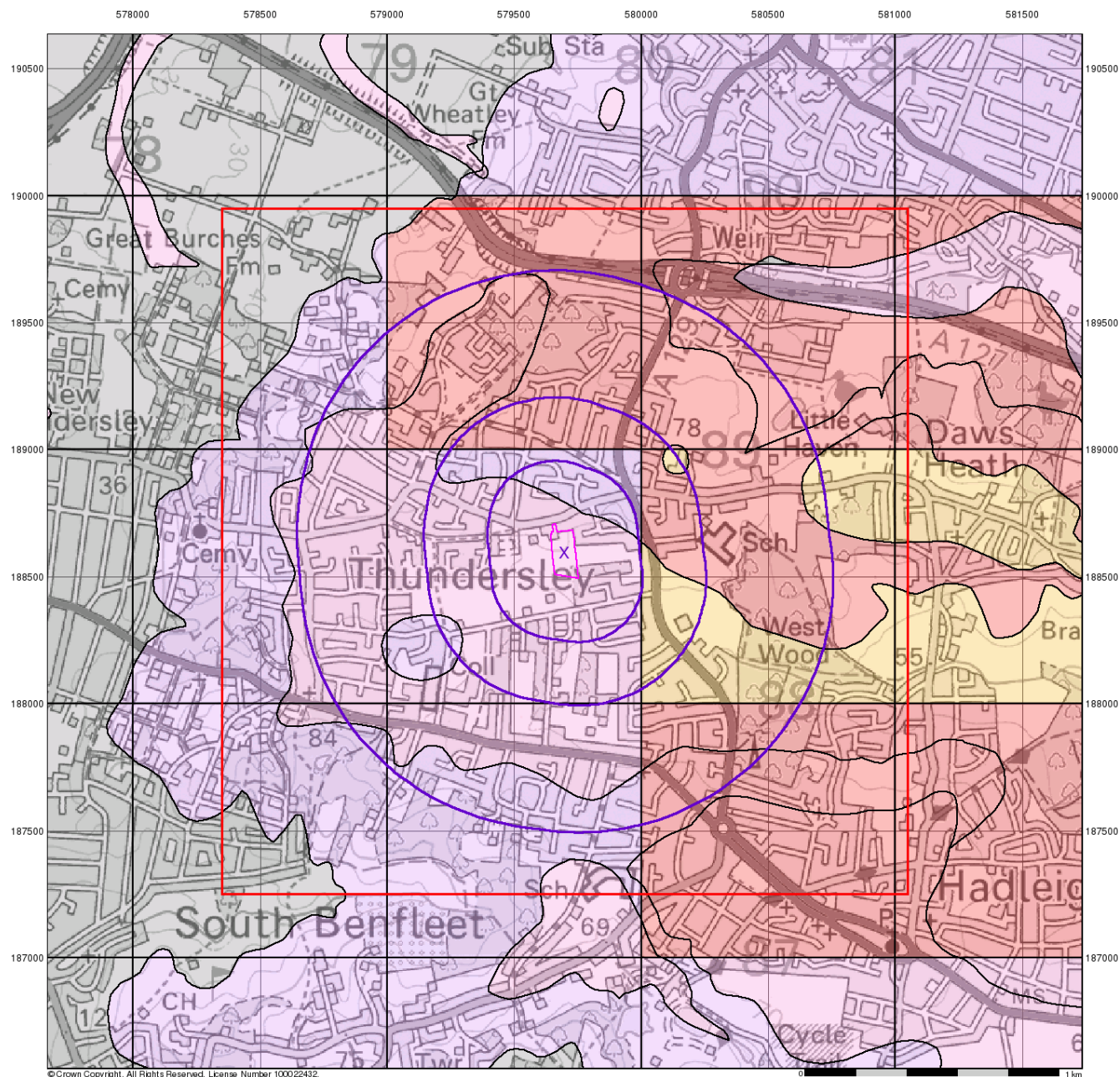
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	July 2020	Quarterly
Fuel Station Entries Catalist Ltd - Experian	September 2020	Quarterly
Gas Pipelines National Grid	September 2020	
Underground Electrical Cables National Grid	August 2020	
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	April 2020	Bi-Annually
Areas of Adopted Green Belt Basildon District Council Castle Point Borough Council Chelmsford Borough Council Rochford District Council - Planning Services Southend-on-Sea Borough Council	June 2020 June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified As notified
Areas of Unadopted Green Belt Basildon District Council Castle Point Borough Council Chelmsford Borough Council Rochford District Council - Planning Services Southend-on-Sea Borough Council	June 2020 June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	June 2019	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	April 2020	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	July 2019	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest Natural England	May 2020	Bi-Annually
Special Areas of Conservation Natural England	July 2020	Bi-Annually
Special Protection Areas Natural England	April 2019	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
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Castle Point Borough Council - Environmental Health Services The Council Offices, Kiln Road, Thundersley, Benfleet, Essex, SS7 1TF	Telephone: 01268 882200 Fax: 01268 755320 Website: www.castlepoint.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Essex County Council County Hall, Chelmsford, Essex, CM1 1YS	Telephone: 01245 492211 Website: www.essexcc.gov.uk
7	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
8	Castle Point Borough Council The Council Offices, Kiln Road, Thundersley, Benfleet, Essex, SS7 1TF	Telephone: 01268 792711 Fax: 01268 755320 Website: www.castlepoint.gov.uk
9	Basildon District Council The Basildon Centre, Pagel Mead, Basildon, Essex, SS14 1DL	Telephone: 01268 533333 Fax: 01268 294162 Website: www.basildon.gov.uk
10	Rochford District Council - Planning Services Council Offices, South Street, Rochford, Essex, SS4 1BW	Telephone: 01702 546366 Fax: 01702 545737 Website: www.rochford.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

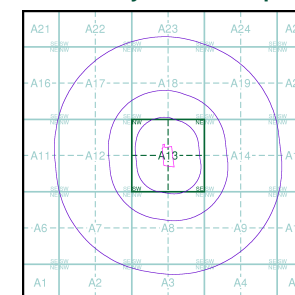
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A

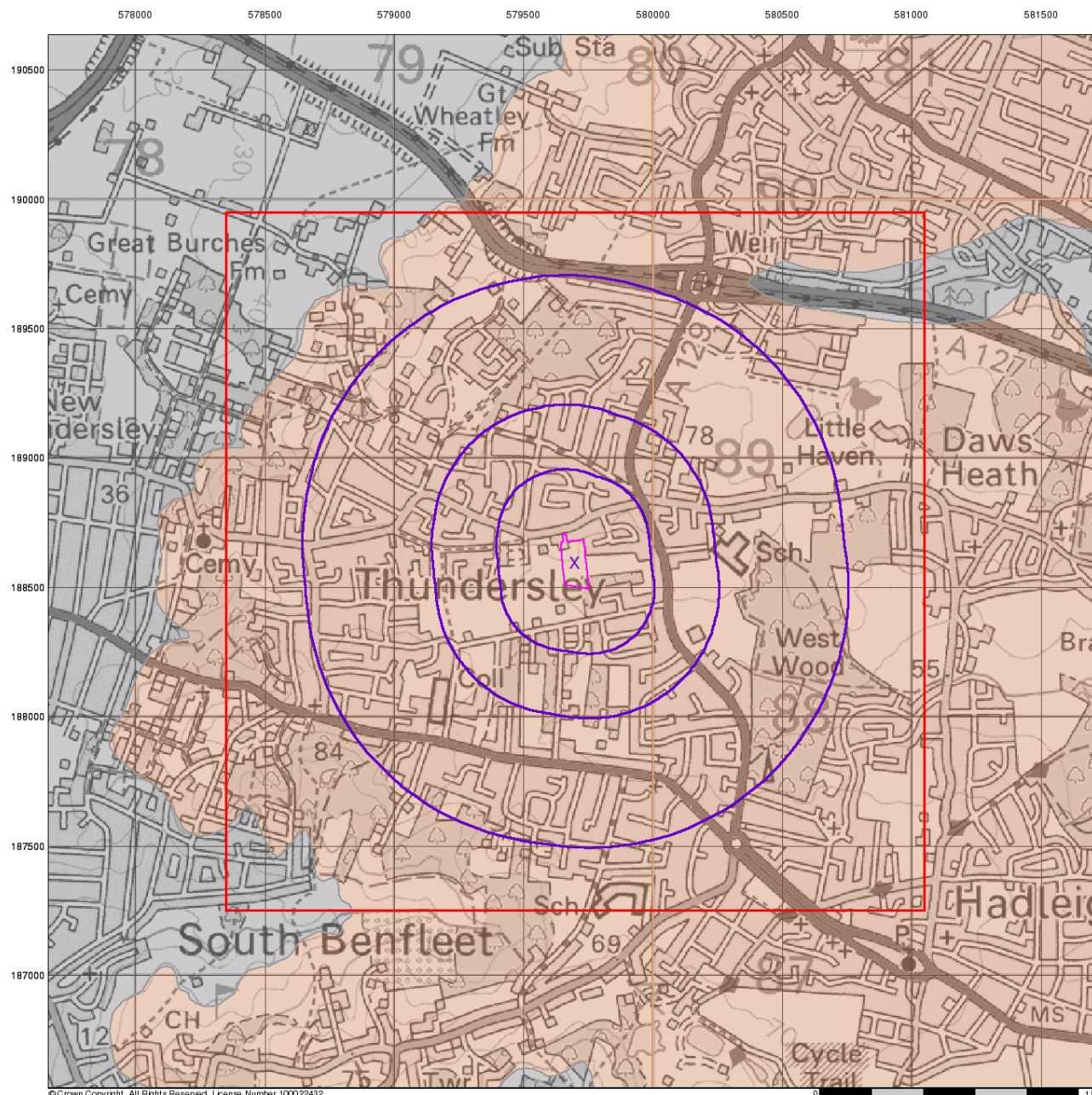


Order Details

Order Number: 258580487_1_1
Customer Ref: LEG/03
National Grid Reference: 579700, 188600
Slice: A
Site Area (Ha): 1.67
Search Buffer (m): 1000

Site Details

Hart Road, Thundersley, Essex



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Bedrock Aquifer Designation

General

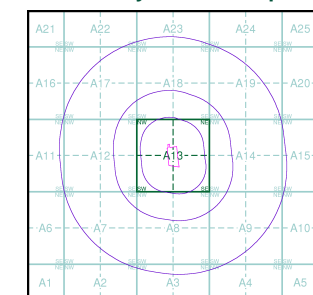
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A

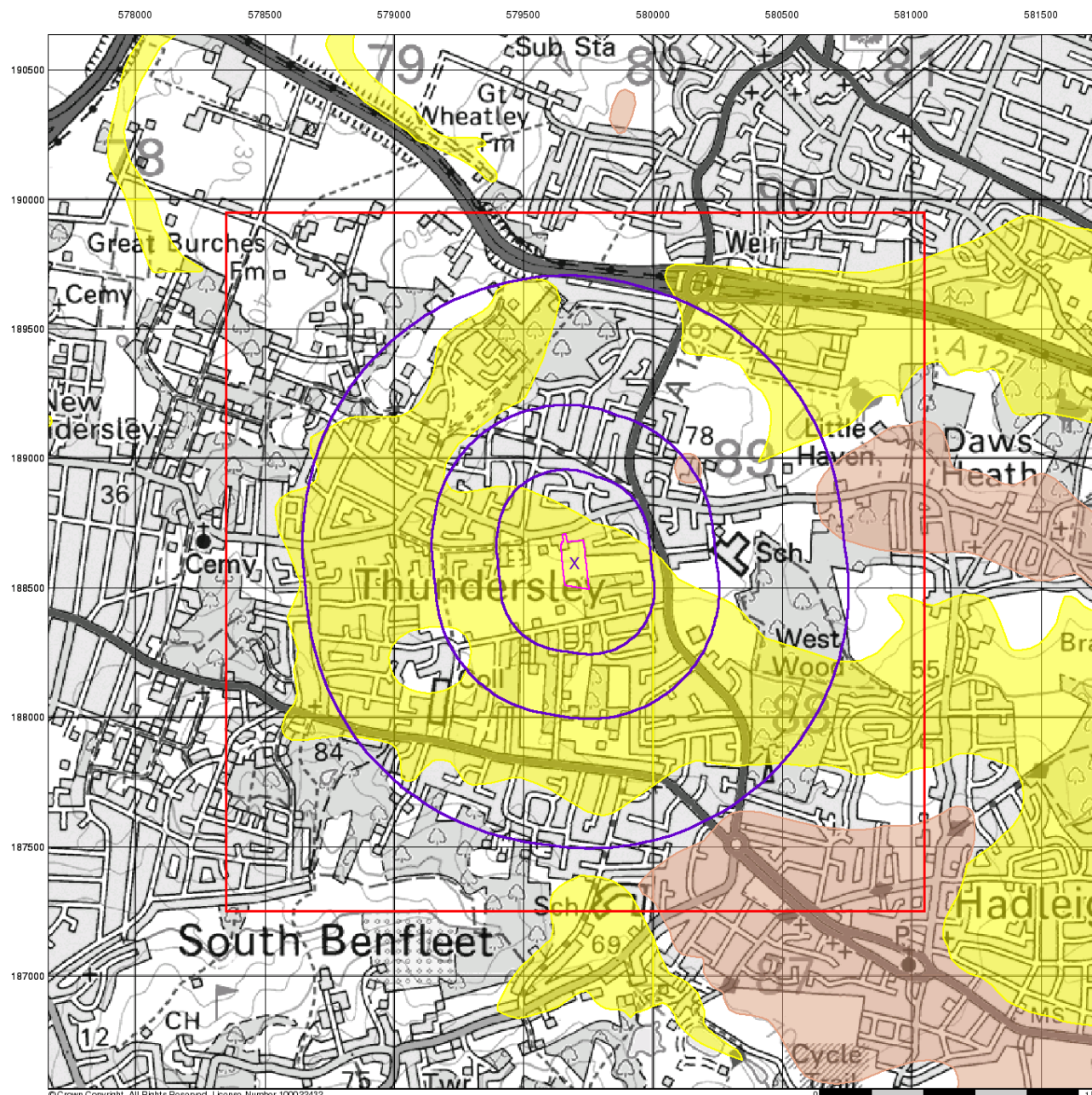


Order Details

Order Number: 258580487_1_1
Customer Ref: LEG/03
National Grid Reference: 579700, 188600
Slice: A
Site Area (Ha): 1.67
Search Buffer (m): 1000

Site Details

Hart Road, Thundersley, Essex



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Superficial Aquifer Designation

General

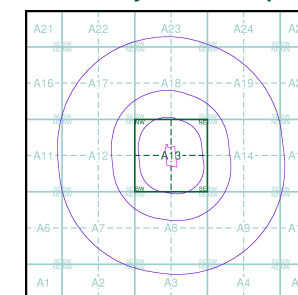
- ◇ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- B Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A

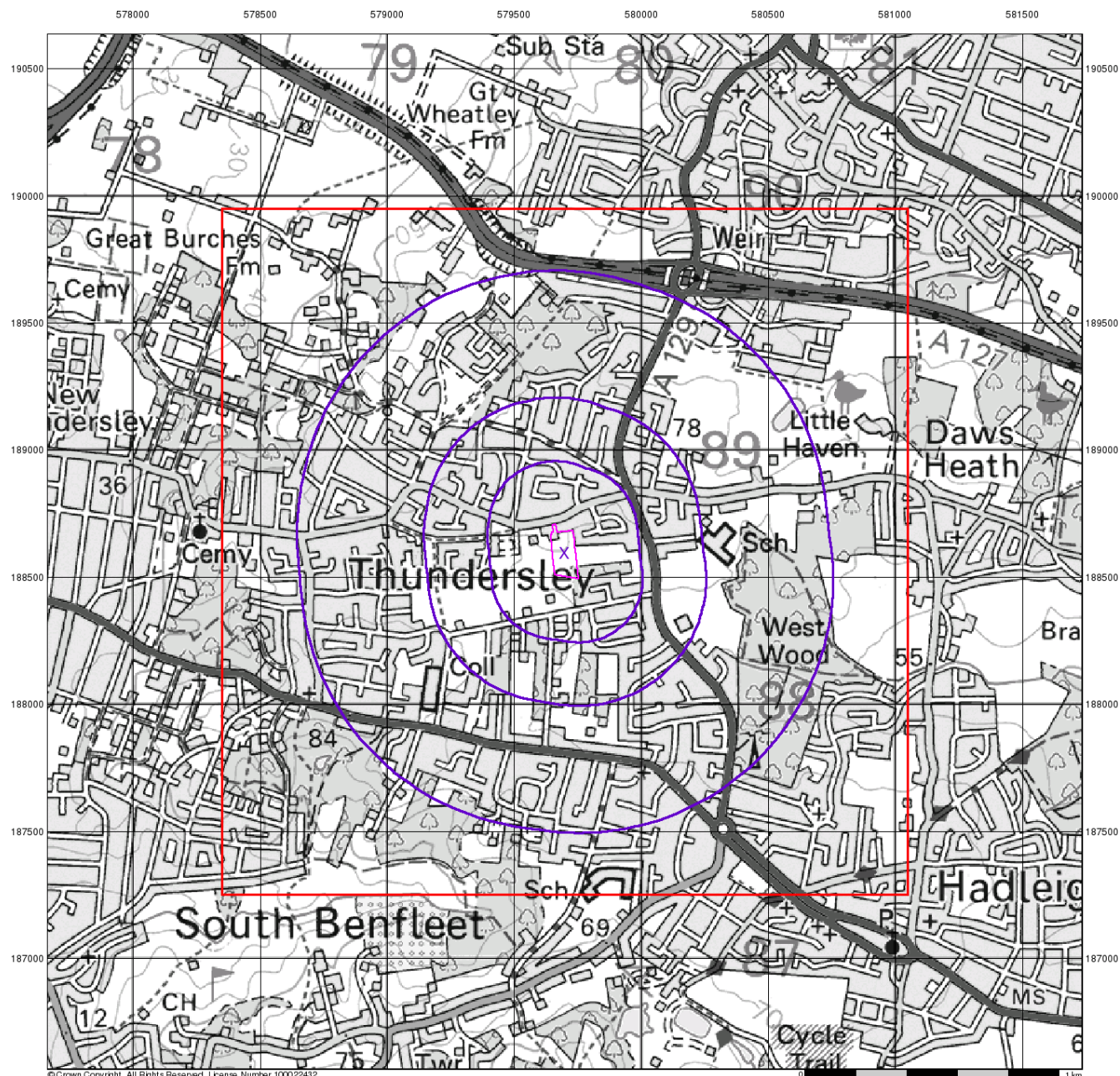


Order Details

Order Number: 258580487_1_1
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Slice: A
Site Area (Ha): 1.67
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Site Details

Hart Road, Thundersley, Essex



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Source Protection Zones

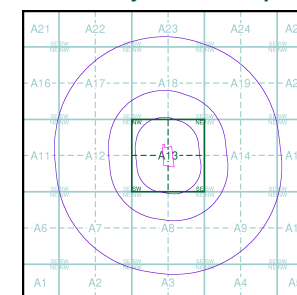
General

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

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A

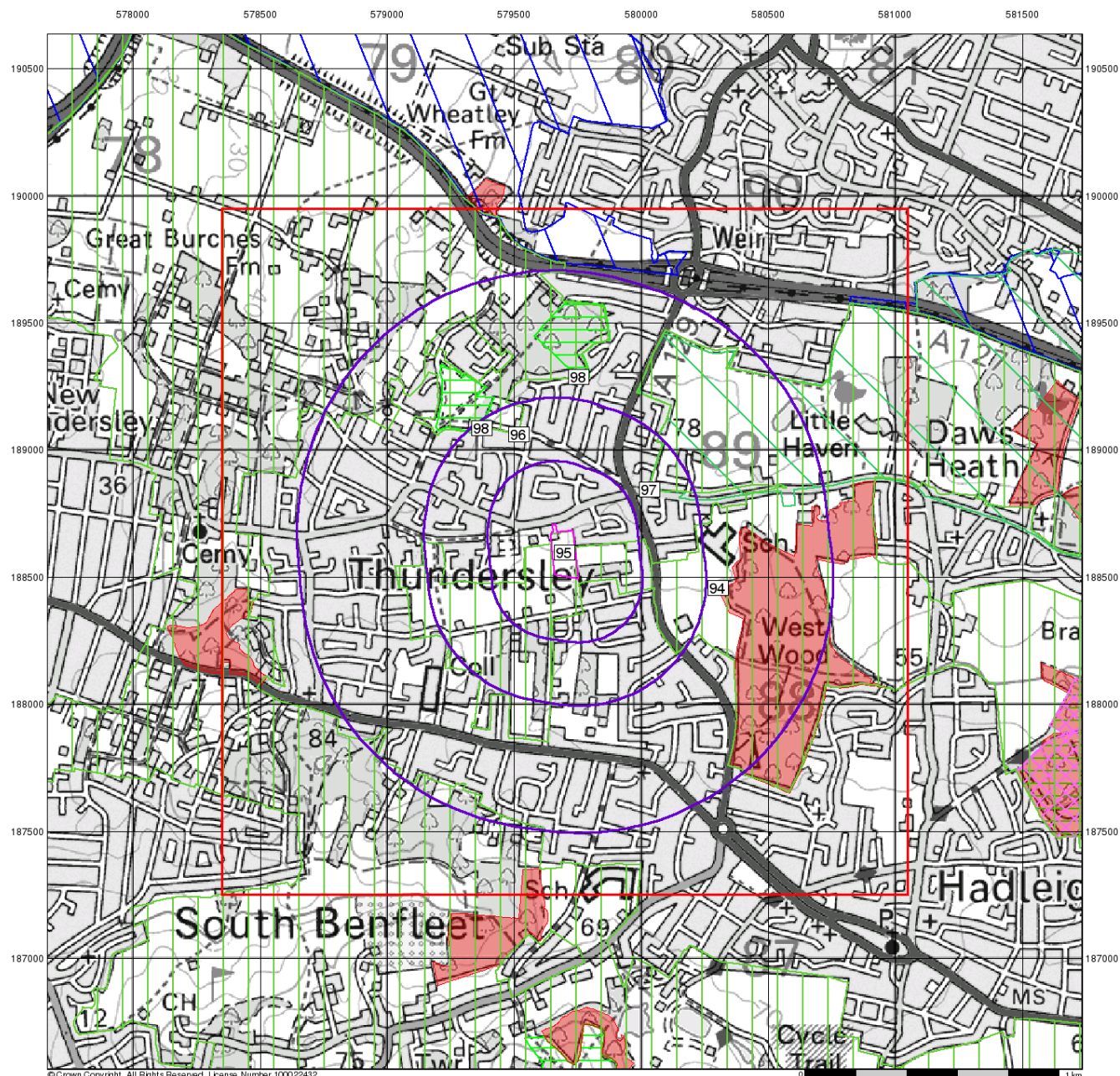


Order Details

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Slice: A
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Search Buffer (m): 1000

Site Details

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Sensitive Land Uses

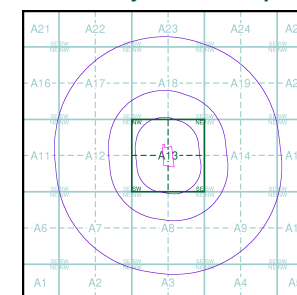
General

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

Sensitive Land Uses

- Ancient Woodland
- 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
- N National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice A

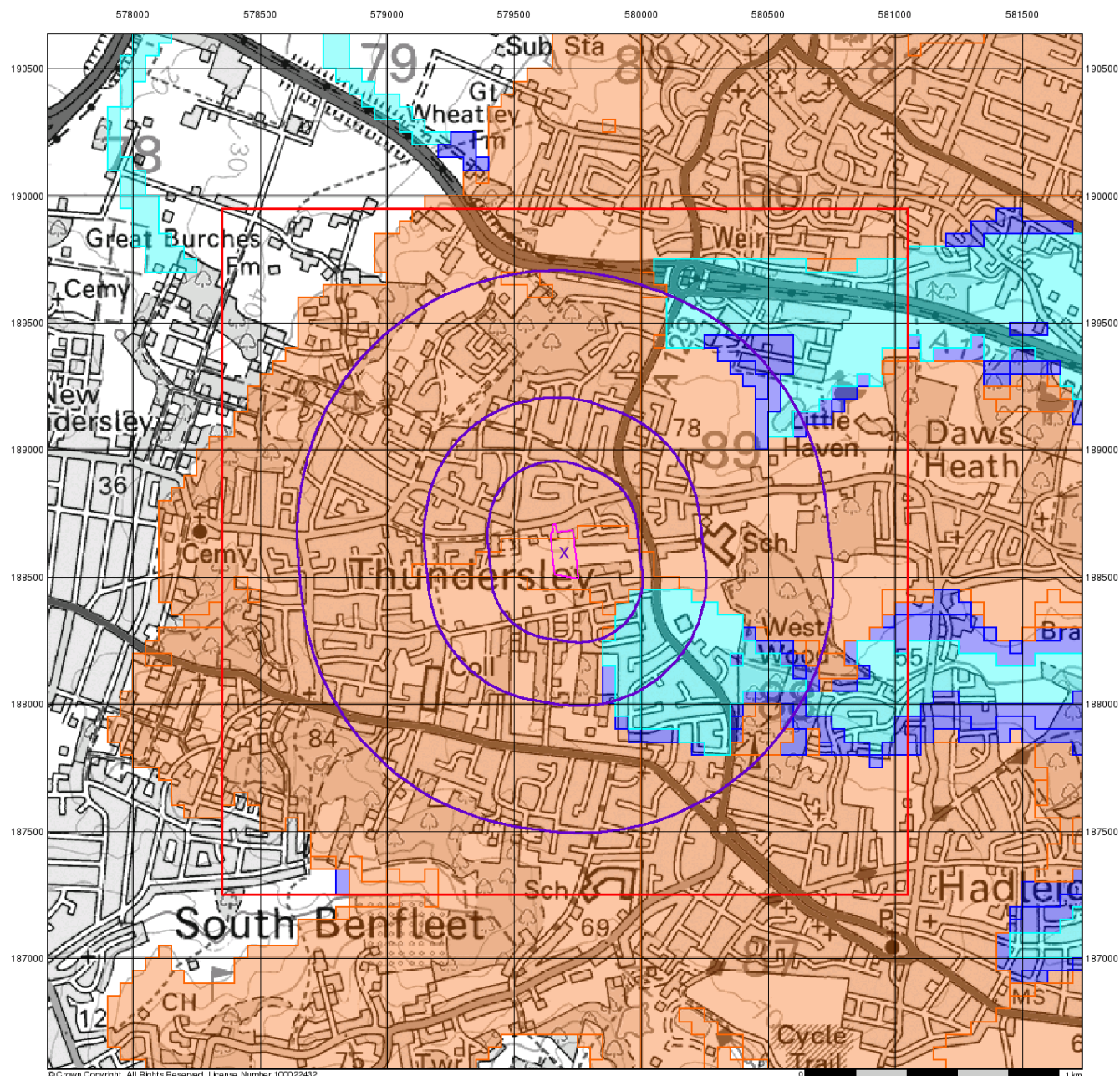


Order Details

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Slice: A
Site Area (Ha): 1.67
Search Buffer (m): 1000

Site Details

Hart Road, Thundersley, Essex



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ARP GEOTECHNICAL LTD

BGS Flood GFS Data

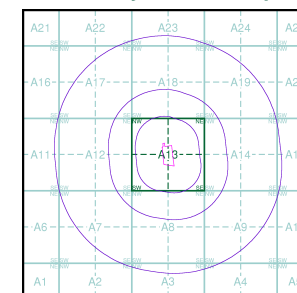
General

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

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 258580487_1_1
 Customer Ref: LEG/03
 National Grid Reference: 579700, 188600
 Slice: A
 Site Area (Ha): 1.67
 Search Buffer (m): 1000

Site Details

Hart Road, Thundersley, Essex

Landmark
 INFORMATION GROUP

Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk

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

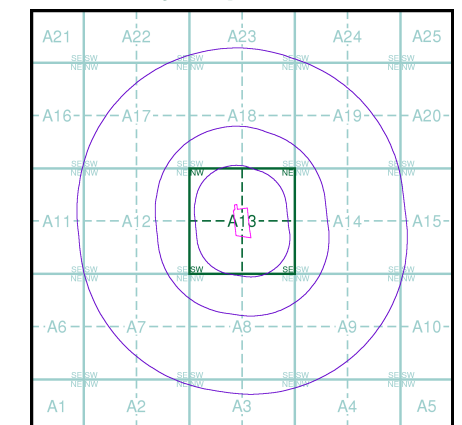
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A

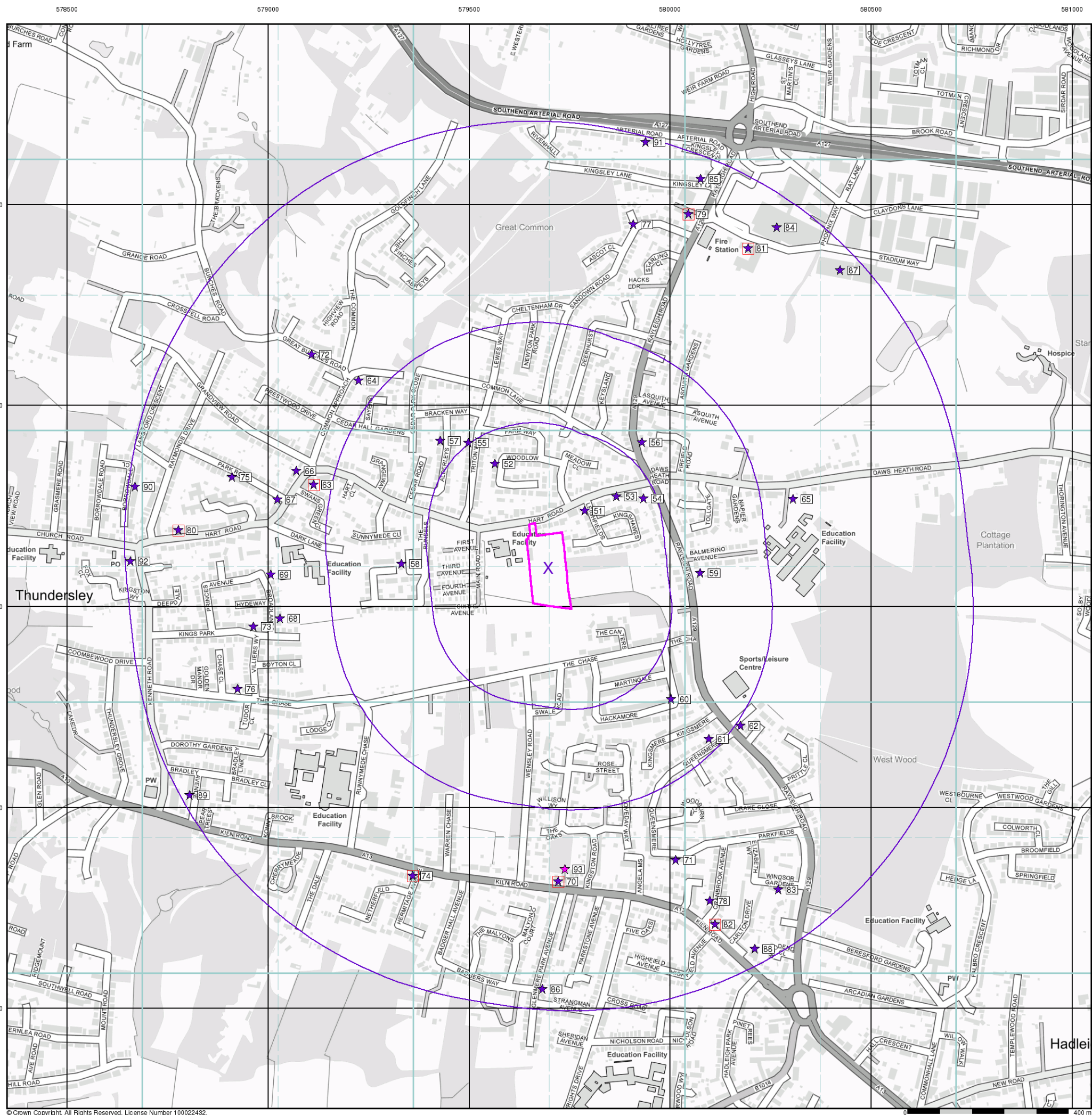


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Industrial Land Use Map

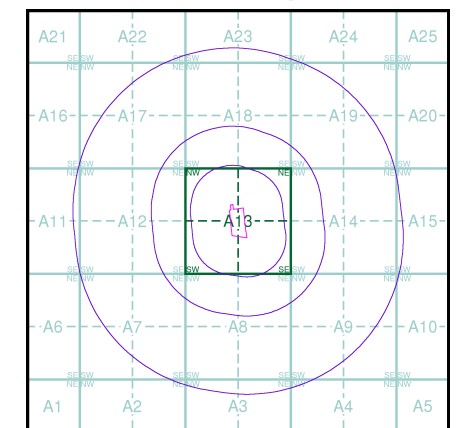
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Underground Electrical Cables

Industrial Land Use Map - Slice A

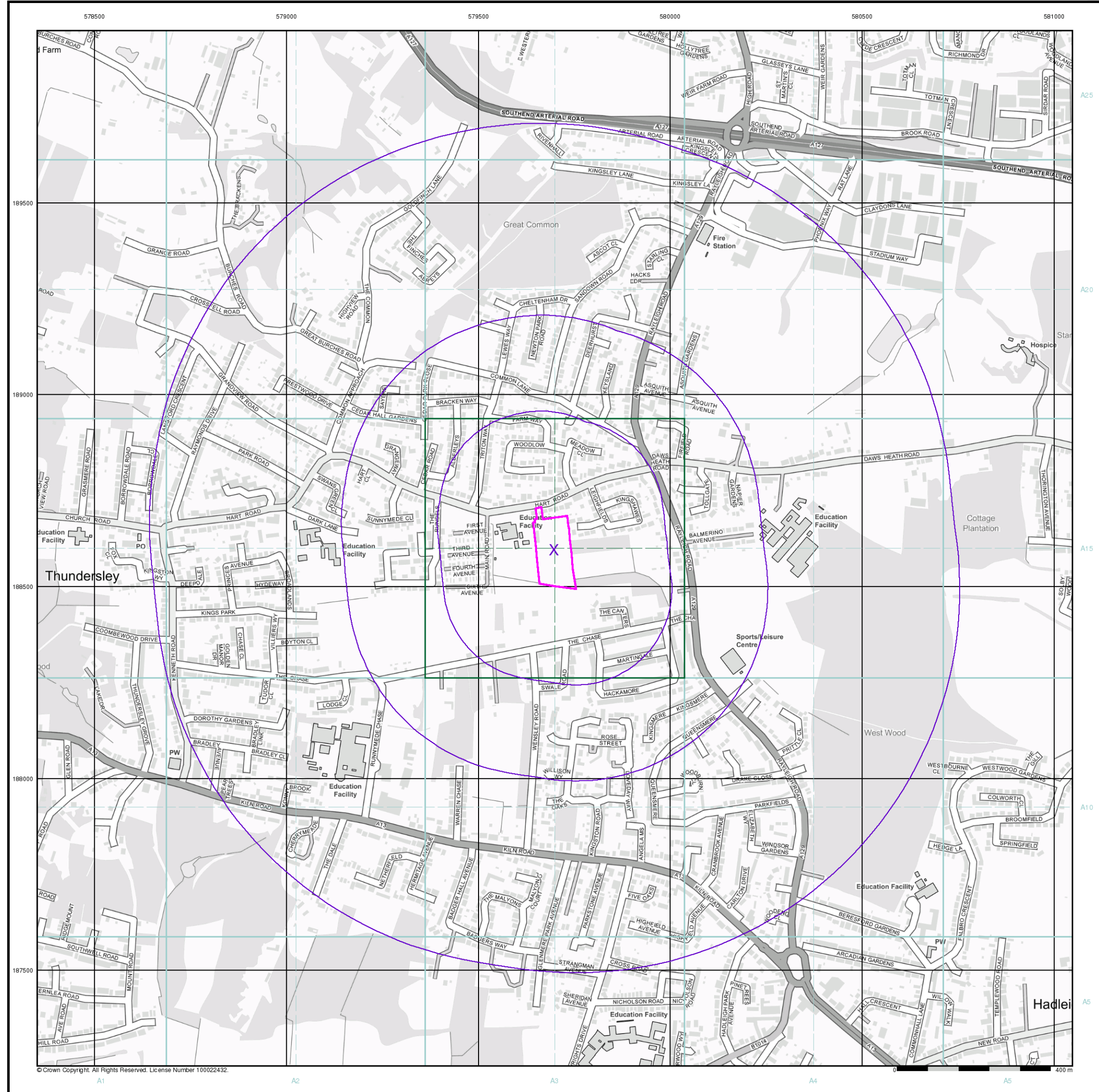


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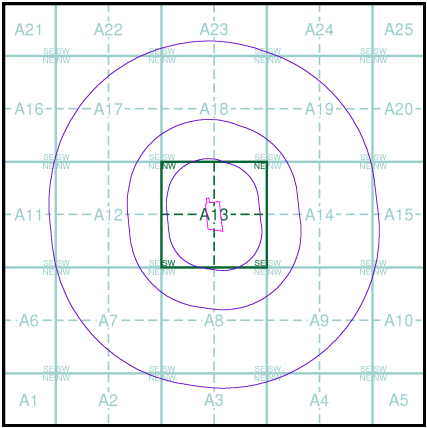
General

- 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

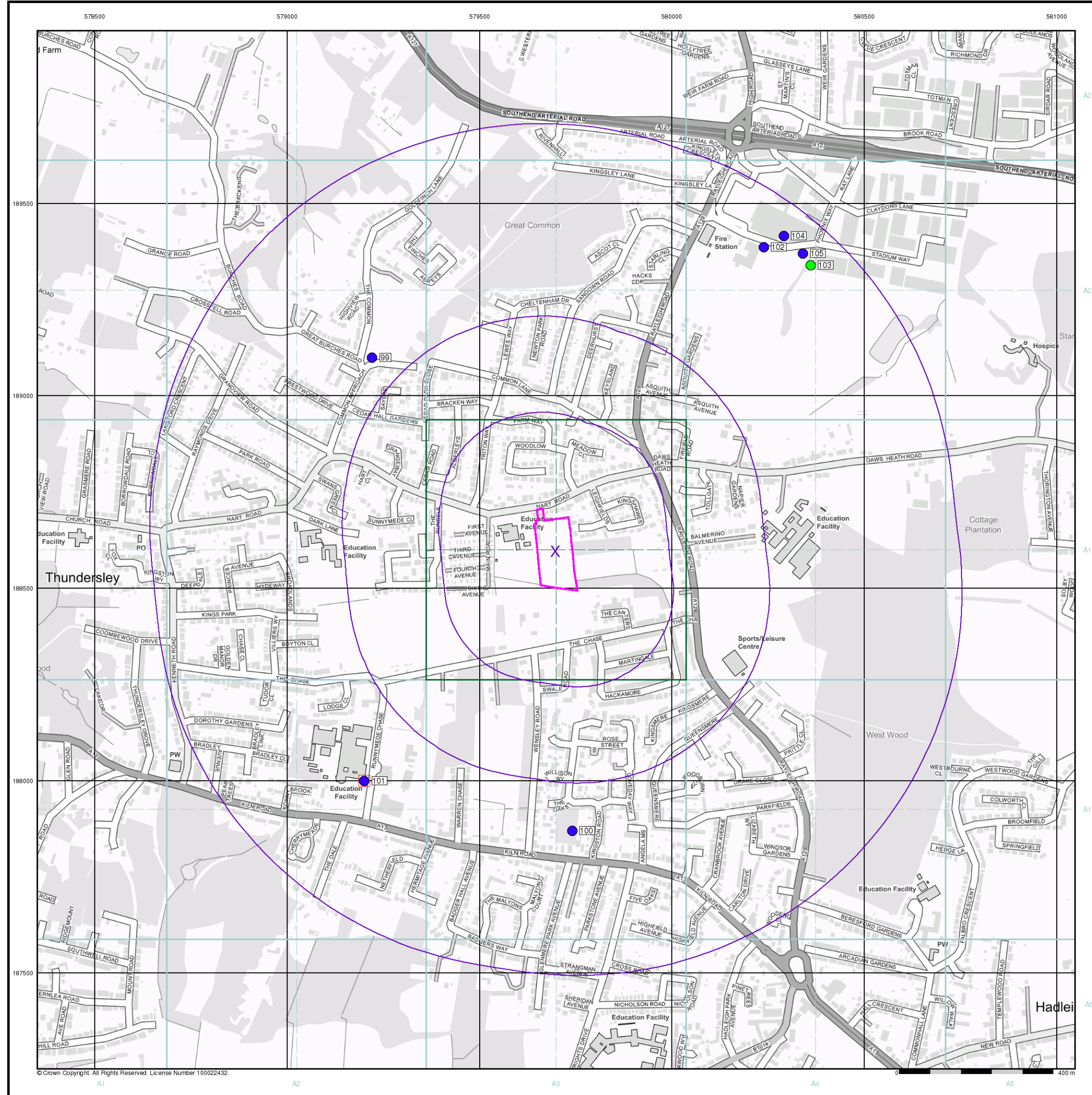


Order Details

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National Grid Reference: 579700, 188600
Slice: A
Site Area (Ha): 1.67
Search Buffer (m): 1000

Site Details

Hart Road, Thundersley, Essex



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General

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

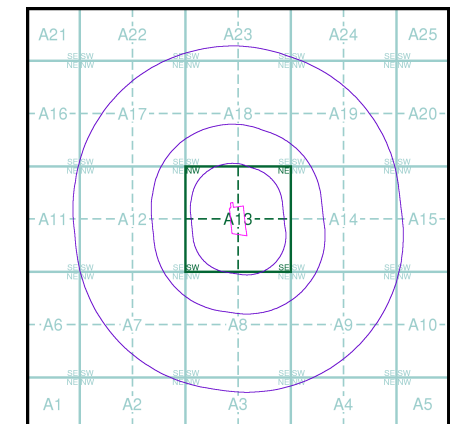
Agency and Hydrological (Boreholes)

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

For Borehole information please refer to the Borehole .csv file 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

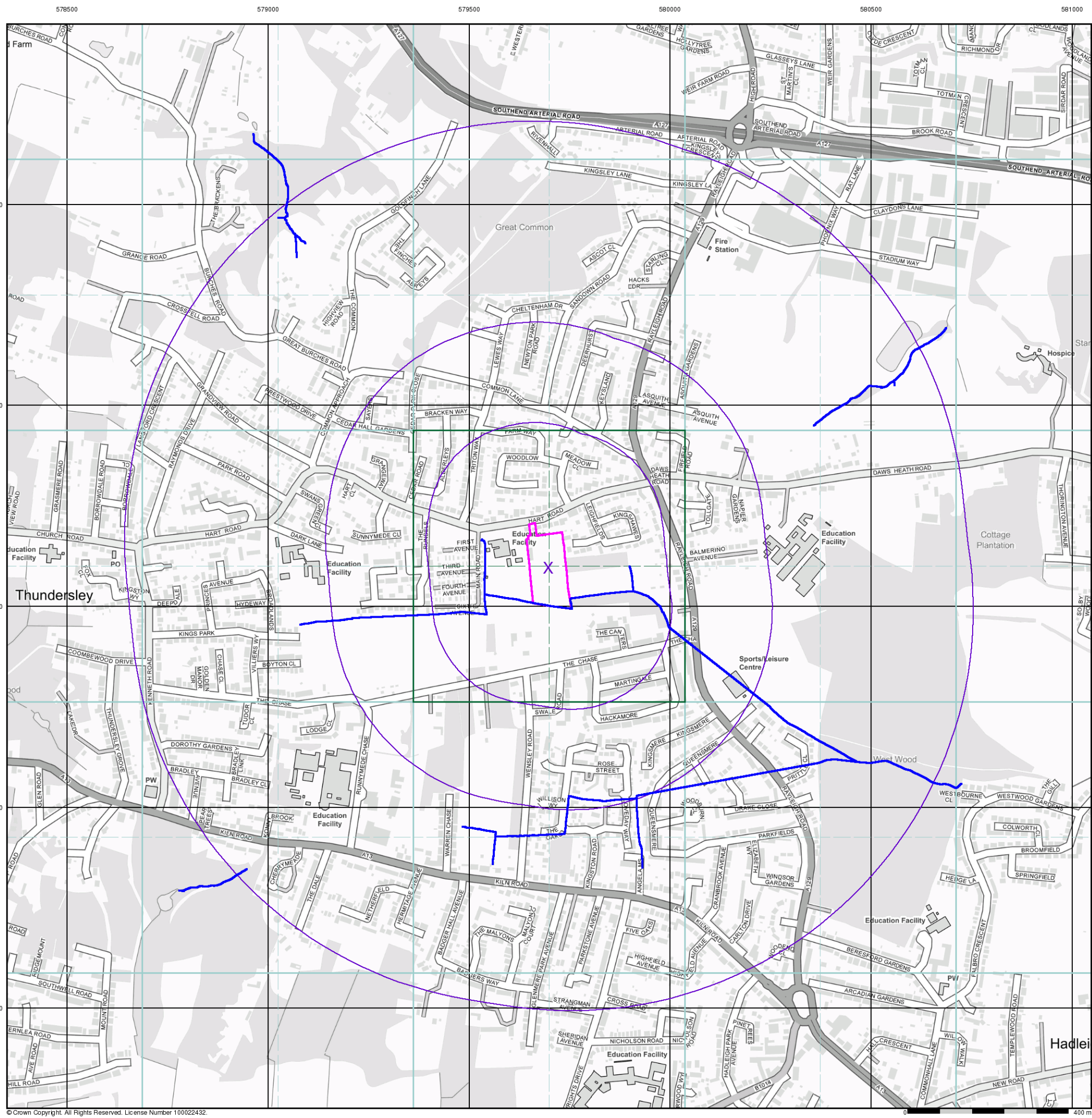


Order Details

Order Number: 258580487_1_1
Customer Ref: LEG/03
National Grid Reference: 579700, 188600
Slice: A
Site Area (Ha): 1.67
Search Buffer (m): 1000

Site Details

Hart Road, Thundersley, Essex



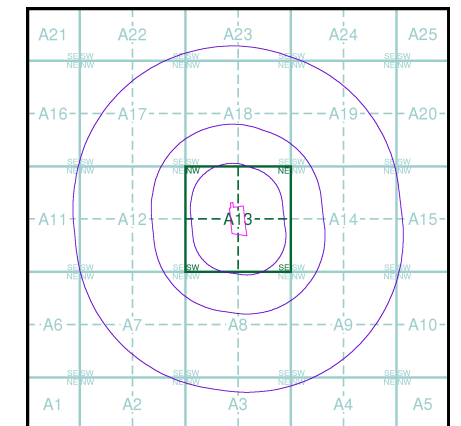
General

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

OS Water Network Data

- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

OS Water Network Map - Slice A

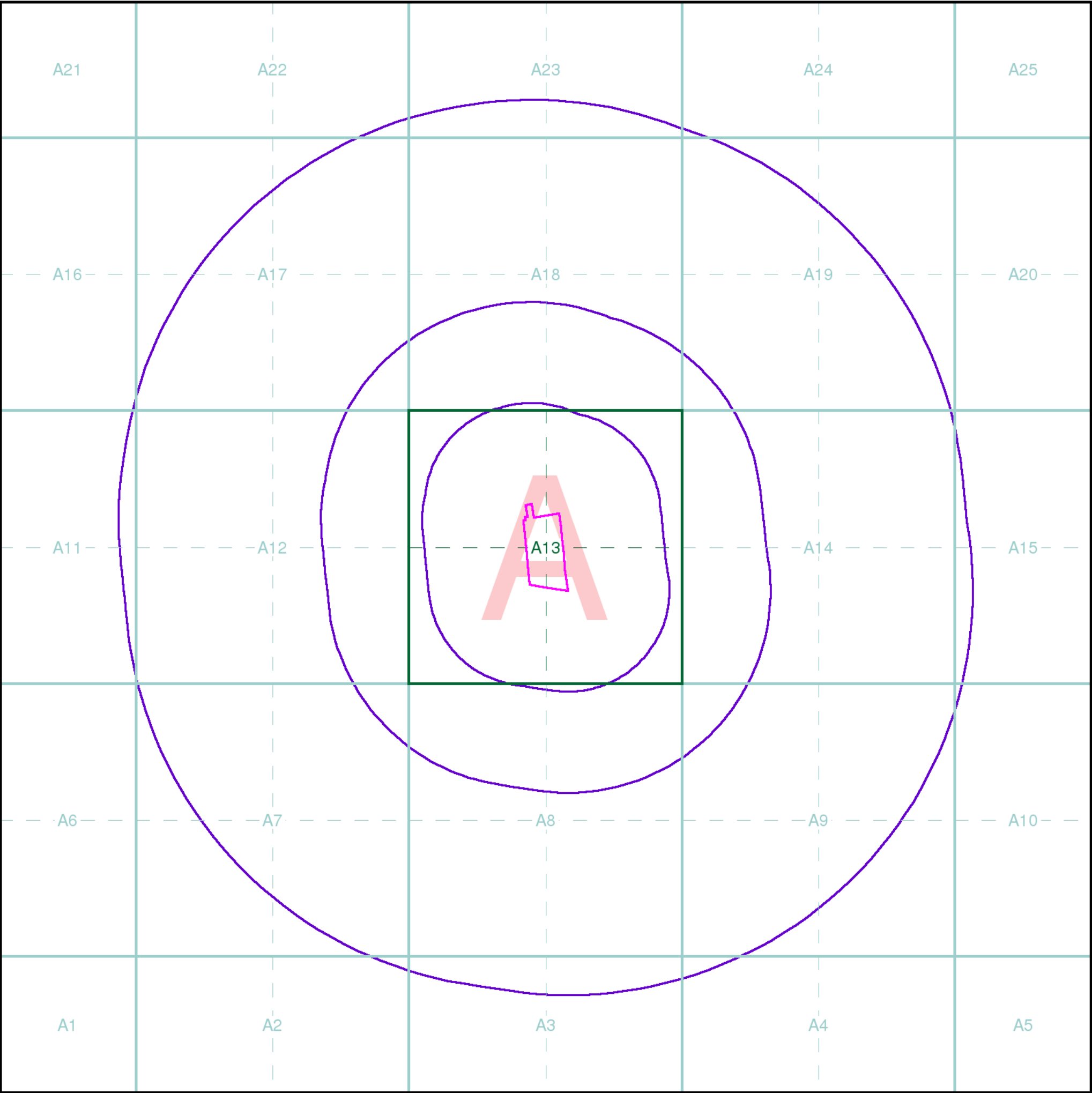


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Site Details

Hart Road, Thundersley, Essex



ARP GEOTECHNICAL LTD

Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mr J Race, ARP Geotechnical Ltd, Northwest House, 5-6
Northwest Business Park, Servia Hill, Leeds, LS6 2QH

Order Details

Order Number: 258580487_1_1
Customer Ref: LEG/03
National Grid Reference: 579700, 188590
Site Area (Ha): 1.67
Search Buffer (m): 1000

Site Details

Hart Road, Thundersley, Essex

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>



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APPENDIX E

RISK CATEGORISATION TABLES

Severity of Consequence

Severe	Short term (acute) risks to human health, likely to result in significant harm. Major pollution of (watercourses or groundwater)
Medium	Long-term (Chronic) damage (significant harm) to human health. Pollution of sensitive water resources.
Mild	Pollution of non-sensitive water resources.
Minor	Non-permanent health effects easily prevented by use of personal protective equipment during site works.

Probability of Risk Event Occurring

High Likelihood	There is a pollutant linkage and an event that either appears very likely in the short term, almost inevitable in the long term, or there is evidence of harm or pollution at the receptor.
Likely	There is a pollution linkage and all the elements are present and in the right place, so that a risk event is possible in the short term and likely over the long term.
Low Likelihood	There is a pollution linkage and circumstances are possible under which a risk event could occur. However, it is not certain that such an event would take place even over a longer period, and even less likely in the short term.
unlikely	There is a pollution linkage, but circumstances are such that it is improbable that an event would occur even in the very long term.

Comparison of Probability Against Severity of Consequence

		Severity of Consequence			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate/ Low Risk
	Likely	High Risk	Moderate Risk	Moderate/ Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate/ Low Risk	Low Risk	Very Low Risk
	Unlikely	Moderate/ Low Risk	Low Risk	Very Low Risk	Very Low Risk

Risk Categories - Definitions

Very High Risk	High probability that severe harm could arise to a receptor, or there is evidence that severe harm is already occurring. Urgent investigation is required and urgent remediation is likely to be required.
High Risk	Harm is likely to arise to a receptor. Urgent investigation is required and remediation may be necessary in the short term and likely over the longer term.
Moderate Risk	Possible that harm could arise to a receptor, but low likelihood that such harm would be severe. Harm is likely to be mild. Investigation normally required to clarify risk. Some remedial works may be required in the long-term.
Moderate/ Low Risk	Possible that harm could arise to a receptor, but where a combination of likelihood and consequence results in a risk that is above low, but is not of sufficient concern to be classified as mild. Limited further investigation may be required to clarify the risk. If necessary, remediation works are likely to be limited in extent.
Low Risk	Possible that harm could arise to a receptor. Such harm, at worst, would normally be mild.
Very Low Risk	Low possibility that harm could arise to a receptor. Such harm is unlikely to be any worse than mild.

APPENDIX F

INDICATIVE PROPOSED SITE LAYOUT

Hart Road, Thundersley

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PRELIMINARY



Schedule of Accommodation

6no· 1b2p Flats	@ 50sqm
4no· 2b4p Flats	@ 70sqm
4no· 2b4p Houses	@ 80sqm
6no· 2b4p Houses	@ 85sqm
6no· 3b4p Houses	@ 88sqm
15no· 3b5p Houses	@ 93sqm
5no· 4b6p Houses	@ 106sqm
Total of 46 dwellings	



ASHBY DESIGN
LIMITED

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OLD HATFIELD HERTS AL9 5EH
T 01707 270 077 W www.ashbydesign.co.uk

Project
Hart Road,
Thundersley

Title
Proposed Sketch Scheme

Scale
1:750 @ A3

Date
November 2019

Drawn
LS/AM

Checked
LS

Drawing No.

F109/19/Feas/SK_02

Revision

-

Proposed Sketch Scheme