



## **Envirocheck<sup>®</sup> Report:**

### **Datasheet**

#### **Order Details:**

**Order Number:**

60967330\_1\_1

**Customer Reference:**

26435

**National Grid Reference:**

530270, 201790

**Slice:**

A

**Site Area (Ha):**

5.08

**Search Buffer (m):**

250

#### **Site Details:**

Site at

Cuffley Brook

Hertfordshire

#### **Client Details:**

Mr A Kent

RSK Environment Ltd

18 Frogmore Road

Hemel Hempstead

Herts

HP3 9RT

Report Section	Page Number
Summary	-
Agency & Hydrological	1
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### Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/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 the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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### Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

### Report Version v49.0

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
<b>Agency &amp; Hydrological</b>			
Contaminated Land Register Entries and Notices			
Discharge Consents			
Enforcement and Prohibition Notices			
Integrated Pollution Controls			
Integrated Pollution Prevention And Control			
Local Authority Integrated Pollution Prevention And Control			
Local Authority Pollution Prevention and Controls			
Local Authority Pollution Prevention and Control Enforcements			
Nearest Surface Water Feature	pg 1	Yes	
Pollution Incidents to Controlled Waters	pg 1	1	
Prosecutions Relating to Authorised Processes			
Prosecutions Relating to Controlled Waters			
Registered Radioactive Substances			
River Quality	pg 1	1	
River Quality Biology Sampling Points			
River Quality Chemistry Sampling Points			
Substantiated Pollution Incident Register			
Water Abstractions			
Water Industry Act Referrals			
Groundwater Vulnerability	pg 1	Yes	n/a
Bedrock Aquifer Designations	pg 1	Yes	n/a
Superficial Aquifer Designations	pg 1	Yes	n/a
Source Protection Zones			
Extreme Flooding from Rivers or Sea without Defences	pg 2	Yes	Yes
Flooding from Rivers or Sea without Defences	pg 2	Yes	
Areas Benefiting from Flood Defences			
Flood Water Storage Areas			
Flood Defences			
Detailed River Network Lines	pg 2	Yes	Yes
Detailed River Network Offline Drainage	pg 4		Yes

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
<b>Waste</b>			
BGS Recorded Landfill Sites			
Historical Landfill Sites			
Integrated Pollution Control Registered Waste Sites			
Licensed Waste Management Facilities (Landfill Boundaries)			
Licensed Waste Management Facilities (Locations)	pg 5		1
Local Authority Recorded Landfill Sites			
Registered Landfill Sites			
Registered Waste Transfer Sites			
Registered Waste Treatment or Disposal Sites			
<b>Hazardous Substances</b>			
Control of Major Accident Hazards Sites (COMAH)			
Explosive Sites			
Notification of Installations Handling Hazardous Substances (NIHHS)			
Planning Hazardous Substance Consents			
Planning Hazardous Substance Enforcements			
<b>Geological</b>			
BGS 1:625,000 Solid Geology	pg 6	Yes	n/a
BGS Estimated Soil Chemistry	pg 6	Yes	Yes
BGS Recorded Mineral Sites	pg 9		1
BGS Urban Soil Chemistry			
BGS Urban Soil Chemistry Averages	pg 10		Yes
Brine Compensation Area			n/a
Coal Mining Affected Areas			n/a
Mining Instability			n/a
Man-Made Mining Cavities			
Natural Cavities			
Non Coal Mining Areas of Great Britain	pg 10	Yes	Yes
Potential for Collapsible Ground Stability Hazards	pg 10	Yes	
Potential for Compressible Ground Stability Hazards	pg 11	Yes	
Potential for Ground Dissolution Stability Hazards	pg 11		Yes
Potential for Landslide Ground Stability Hazards	pg 11	Yes	Yes
Potential for Running Sand Ground Stability Hazards	pg 11	Yes	Yes
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 12	Yes	
Radon Potential - Radon Affected Areas	pg 12	Yes	n/a
Radon Potential - Radon Protection Measures			n/a

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
<b>Industrial Land Use</b>			
Contemporary Trade Directory Entries	pg 13		5
Fuel Station Entries			
<b>Sensitive Land Use</b>			
Areas of Adopted Green Belt	pg 14	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 14	1	
Ramsar Sites			
Sites of Special Scientific Interest			
Special Areas of Conservation			
Special Protection Areas			

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Nearest Surface Water Feature</b>	A7NW (SE)	0	-	530398 201698
1	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Northaw Road, CUFFLEY Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 4th November 1991 Incident Reference: NE910536 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A10SE (W)	0	3	530001 201901
	<b>River Quality</b> Name: Cuffley Bk GQA Grade: River Quality D Reach: Source - Turkey Bk Estimated Distance (km): 10.4 Flow Rate: Flow less than 0.62 cumecs Flow Type: River Year: 2000	A7NW (S)	0	3	530271 201746
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 39 West London Scale: 1:100,000	A10SE (W)	0	3	530000 201789
	<b>Groundwater Vulnerability</b> Soil Classification: Not classified Map Sheet: Sheet 39 West London Scale: 1:100,000	A6NE (SW)	0	3	530000 201610
	<b>Groundwater Vulnerability</b> Soil Classification: Not classified Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	A7NW (S)	0	3	530349 201567
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	A6NE (SW)	0	3	530205 201759
	<b>Groundwater Vulnerability</b> Soil Classification: Not classified Map Sheet: Sheet 40 Thames Estuary Scale: 1:100,000	A11SW (SE)	0	3	530275 201789
	<b>Drift Deposits</b> None				
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A10SE (W)	0	2	530001 201789
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A6NE (SW)	0	2	530238 201758
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Unproductive Strata	A11SW (SE)	0	2	530275 201789
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Unproductive Strata	A6NE (SW)	0	2	530001 201551
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A10SE (W)	0	2	530001 201789
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A7NW (SE)	0	2	530505 201586

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A6NE (S)	0	2	530258 201714
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A6NE (SW)	0	3	530260 201760
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A7NE (E)	152	3	530819 201624
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A7NE (E)	157	3	530824 201610
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A6NE (SW)	0	3	530255 201760
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				
2	<b>Detailed River Network Lines</b> River Type: Primary River River Name: Hemphill Brook Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Hemphill Brook Name: Water Course: 53HE Reference:	A6NE (W)	0	3	530118 201762
3	<b>Detailed River Network Lines</b> River Type: Primary River River Name: Northaw Brook Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Northaw Brook Name: Water Course: 53NO Reference:	A7NW (SE)	0	3	530435 201699
4	<b>Detailed River Network Lines</b> River Type: Primary River River Name: Northaw Brook Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Northaw Brook Name: Water Course: 53NO Reference:	A6NE (W)	0	3	530118 201762

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<b>Detailed River Network Lines</b> River Type: Tertiary River River Name: Drain Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A7NW (SE)	0	3	530400 201702
6	<b>Detailed River Network Lines</b> River Type: Tertiary River River Name: Drain Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A7NW (E)	2	3	530447 201745
7	<b>Detailed River Network Lines</b> River Type: Primary River River Name: Not Supplied Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Northaw Brook Name: Water Course: 53NO Reference:	A7NW (SE)	2	3	530400 201702
8	<b>Detailed River Network Lines</b> River Type: Primary River River Name: Not Supplied Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Northaw Brook Name: Water Course: 53NO Reference:	A7NW (S)	3	3	530275 201749
9	<b>Detailed River Network Lines</b> River Type: Tertiary River River Name: Hemphill Brook Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Hemphill Brook Name: Water Course: 53HE Reference:	A10SE (W)	14	3	529940 201895
10	<b>Detailed River Network Lines</b> River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A10NW (NW)	172	3	529749 202180





Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D006	A7NE (SE)	12	3	530721 201509

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 103265 Location: Cattlegate Farm, Cattlegate Road, Enfield, Middlesex, EN2 8AU Operator Name: Willen Biogas Limited Operator Location: Not Supplied Authority: Environment Agency - Thames Region, North East Area Site Category: Composting in open systems Licence Status: Transferred Issued: 22nd October 2013 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SE)	104	3	530479 201565
	<b>Local Authority Landfill Coverage</b> Name: Hertfordshire County Council - Has supplied landfill data		0	10	530275 201789
	<b>Local Authority Landfill Coverage</b> Name: Welwyn Hatfield Council - Has no landfill data to supply		0	11	530275 201789

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: London Clay	A11SW (SE)	0	2	530275 201789
	<b>BGS 1:625,000 Solid Geology</b> Description: Oldhaven, Blackheath, Woolwich, and Reading and Thanet beds	A6NE (SW)	0	2	530132 201874
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (SE)	0	4	530275 201789
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10SE (NW)	0	4	530000 202099
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SE)	0	4	530319 201700
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SE)	0	4	530504 201586
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10SE (W)	0	4	529950 201878

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10SE (W)	0	4	530000 201816
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A6NE (SW)	0	4	530237 201757
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SE)	0	4	530383 201632
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A6NE (S)	0	4	530258 201713
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A11SW (N)	0	4	530275 202000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (N)	0	4	530266 202000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A10SE (NW)	0	4	530000 202000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A10SE (W)	0	4	530000 201789
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A10SW (NW)	13	4	529860 202000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A6NE (W)	29	4	530000 201734
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A6NE (S)	40	4	530256 201622
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A10NE (N)	115	4	530106 202291

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10SW (W)	122	4	529739 202000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (NW)	176	4	530000 202355
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A6NE (SW)	200	4	530000 201551
13	<b>BGS Recorded Mineral Sites</b> Site Name: Soper'S Farm Gravel Pit Location: , Cuffley, Potters Bar, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 189780 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Eocene Geology: London Clay Formation Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A7NW (SE)	60	2	530577 201601
	<b>BGS Measured Urban Soil Chemistry</b> No data available				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Urban Soil Chemistry Averages</b> Source: British Geological Survey, National Geoscience Information Service Sample Area: London Count Id: 7189 Arsenic Minimum Concentration: 1.00 mg/kg Arsenic Average Concentration: 17.00 mg/kg Arsenic Maximum Concentration: 161.00 mg/kg Cadmium Minimum Concentration: 0.30 mg/kg Cadmium Average Concentration: 0.90 mg/kg Cadmium Maximum Concentration: 165.20 mg/kg Chromium Minimum Concentration: 13.00 mg/kg Chromium Average Concentration: 79.00 mg/kg Chromium Maximum Concentration: 2094.00 mg/kg Lead Minimum Concentration: 11.00 mg/kg Lead Average Concentration: 280.00 mg/kg Lead Maximum Concentration: 10000.00 mg/kg Nickel Minimum Concentration: 2.00 mg/kg Nickel Average Concentration: 28.00 mg/kg Nickel Maximum Concentration: 506.00 mg/kg	A7SW (S)	90	2	530275 201300
	<b>Coal Mining Affected Areas</b> In an area that might not be affected by coal mining				
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A10SE (NW)	0	2	530000 202099
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	530000 201789
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	2	530275 201789
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	530000 201816
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	2	530237 201757
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	40	2	530256 201622
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	200	2	530000 201551
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	530000 201816
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	2	530275 201789
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	0	2	530256 201622
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	530000 201789

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	0	2	530258 201713
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	530000 201789
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	0	2	530258 201713
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	530000 201816
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	2	530275 201789
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	0	2	530256 201622
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	530000 201789
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	2	530275 201789
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SW (NW)	50	2	529817 202075
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	530000 201789
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	2	530275 201789
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (E)	0	2	530536 201766
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NW (SE)	0	2	530575 201659
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	0	2	530000 202149
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (NW)	0	2	530111 202113
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NW (E)	19	2	530594 201742
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NW (SE)	55	2	530547 201507
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	530000 201789
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	0	2	530258 201713
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (SE)	0	2	530504 201586
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	2	530275 201789



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (SE)	0	2	530383 201632
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	530000 201816
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	2	530237 201757
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	2	530000 201551
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	40	2	530256 201622
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (N)	115	2	530106 202291
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	176	2	530000 202355
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	2	530275 201789
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	530000 201789
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A10SE (NW)	0	2	530001 201950
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	2	530276 201789
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	530001 201789
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	2	530275 201789
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A10SE (NW)	0	2	530001 201950
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	0	2	530276 201789
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A10SE (W)	0	2	530001 201789
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	2	530275 201789

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	<b>Contemporary Trade Directory Entries</b> Name: Colesdale Farm Services Ltd Location: Colesdale Farm, Northaw Road West, Northaw, Potters Bar, Hertfordshire, EN6 4QZ Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	A10SW (W)	205	-	529726 201822
14	<b>Contemporary Trade Directory Entries</b> Name: J W J Booty Ltd Location: Colesdale Farm, Northaw Road West, Northaw, Potters Bar, Hertfordshire, EN6 4QZ Classification: Furniture Manufacturers - Home & Office Status: Active Positional Accuracy: Automatically positioned to the address	A10SW (W)	205	-	529726 201822
14	<b>Contemporary Trade Directory Entries</b> Name: Vulliamy Furniture Location: Colesdale Farm, Northaw Road West, Northaw, Potters Bar, Hertfordshire, EN6 4QZ Classification: Furniture Manufacturers - Home & Office Status: Inactive Positional Accuracy: Automatically positioned to the address	A10SW (W)	205	-	529726 201822
15	<b>Contemporary Trade Directory Entries</b> Name: Car Tune Location: 60, Northaw Road East, Cuffley, Potters Bar, Hertfordshire, EN6 4LZ Classification: Car Engine Tuning & Diagnostic Services Status: Active Positional Accuracy: Automatically positioned to the address	A11NW (N)	249	-	530285 202279
15	<b>Contemporary Trade Directory Entries</b> Name: Mobile Car Servicing Location: 60, Northaw Road East, Cuffley, Potters Bar, Hertfordshire, EN6 4LZ Classification: Car Engine Tuning & Diagnostic Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NW (N)	249	-	530285 202279

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	<b>Areas of Adopted Green Belt</b> Authority: Welwyn Hatfield District Council Plan Name: Welwyn Hatfield Local Plan Status: Adopted Plan Date: 15th April 2005	A11SW (SE)	0	5	530275 201789
17	<b>Nitrate Vulnerable Zones</b> Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A11SW (SE)	0	9	530275 201789













Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Welwyn Hatfield District Council - Environmental Health Department Broxbourne Borough Council - Environmental Health Department London Borough of Enfield - Environmental Services	August 2013 February 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - Thames Region	August 2014	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - Thames Region	March 2013	As notified
<b>Integrated Pollution Controls</b> Environment Agency - Thames Region	October 2008	Not Applicable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - Thames Region	August 2014	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> London Borough of Enfield - Environmental Health Department Welwyn Hatfield District Council - Environmental Health Department Broxbourne Borough Council - Environmental Health Department	April 2013 May 2012 September 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Controls</b> London Borough of Enfield - Environmental Health Department Welwyn Hatfield District Council - Environmental Health Department Broxbourne Borough Council - Environmental Health Department	April 2013 May 2012 September 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> London Borough of Enfield - Environmental Health Department Welwyn Hatfield District Council - Environmental Health Department Broxbourne Borough Council - Environmental Health Department	April 2013 May 2012 September 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Nearest Surface Water Feature</b> Ordnance Survey	July 2012	Quarterly
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - Thames Region	September 1999	Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - Thames Region	March 2013	As notified
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - Thames Region	March 2013	As notified
<b>Registered Radioactive Substances</b> Environment Agency - Thames Region	August 2014	Quarterly
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>Substantiated Pollution Incident Register</b> Environment Agency - Thames Region - North East Area	August 2014	Quarterly
<b>Water Abstractions</b> Environment Agency - Thames Region	July 2014	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - Thames Region	August 2014	Quarterly
<b>Groundwater Vulnerability</b> Environment Agency - Head Office	January 2011	Not Applicable
<b>Drift Deposits</b> Environment Agency - Head Office	January 1999	Not Applicable

Agency & Hydrological	Version	Update Cycle
<b>Bedrock Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	October 2012	Annually
<b>Superficial Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	October 2012	Annually
<b>Source Protection Zones</b> Environment Agency - Head Office	August 2014	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	August 2014	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	August 2014	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	August 2014	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	August 2014	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	August 2014	Quarterly
<b>Detailed River Network Lines</b> Environment Agency - Head Office	March 2012	Annually
<b>Detailed River Network Offline Drainage</b> Environment Agency - Head Office	March 2012	Annually
Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency - Thames Region - North East Area	May 2014	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - Thames Region	October 2008	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - Thames Region - North East Area	August 2014	Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - Thames Region - North East Area	August 2014	Quarterly
<b>Local Authority Landfill Coverage</b> Broxbourne Borough Council Hertfordshire County Council - County Development Unit London Borough of Enfield - Environmental Health Department Welwyn Hatfield District Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> London Borough of Enfield - Environmental Health Department Broxbourne Borough Council Hertfordshire County Council - County Development Unit Welwyn Hatfield District Council - Environmental Health Department	February 2003 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - Thames Region - North East Area	March 2003	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - Thames Region - North East Area	March 2003	Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - Thames Region - North East Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	August 2014	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	November 2013	Bi-Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> Welwyn Hatfield District Council Broxbourne Borough Council Hertfordshire County Council - County Development Unit London Borough of Enfield - Planning Department	April 2014 October 2013 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Planning Hazardous Substance Consents</b> Welwyn Hatfield District Council Broxbourne Borough Council Hertfordshire County Council - County Development Unit London Borough of Enfield - Planning Department	April 2014 October 2013 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Geological	Version	Update Cycle
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
<b>BGS Estimated Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	January 2010	Annually
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	April 2014	Bi-Annually
<b>BGS Urban Soil Chemistry Averages</b> British Geological Survey - National Geoscience Information Service	June 2011	Annually
<b>Brine Compensation Area</b> Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Mining Report Service	December 2013	As notified
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2014	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2014	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2014	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2014	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2014	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2014	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	July 2011	Annually
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
<b>Contemporary Trade Directory Entries</b> Thomson Directories	August 2014	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	August 2014	Quarterly
Sensitive Land Use	Version	Update Cycle
<b>Areas of Adopted Green Belt</b> Broxbourne Borough Council London Borough of Enfield Welwyn Hatfield District Council	August 2014 August 2014 August 2014	As notified As notified As notified
<b>Areas of Unadopted Green Belt</b> Broxbourne Borough Council London Borough of Enfield Welwyn Hatfield District Council	August 2014 August 2014 August 2014	As notified As notified As notified
<b>Areas of Outstanding Natural Beauty</b> Natural England	August 2014	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	August 2014	Annually
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	October 2014	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	July 2013	Bi-Annually
<b>National Nature Reserves</b> Natural England	September 2014	Bi-Annually
<b>National Parks</b> Natural England	August 2014	Bi-Annually
<b>Nitrate Sensitive Areas</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	July 2014	Annually
<b>Ramsar Sites</b> Natural England	March 2014	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	September 2014	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	March 2014	Bi-Annually
<b>Special Protection Areas</b> Natural England	September 2014	Bi-Annually

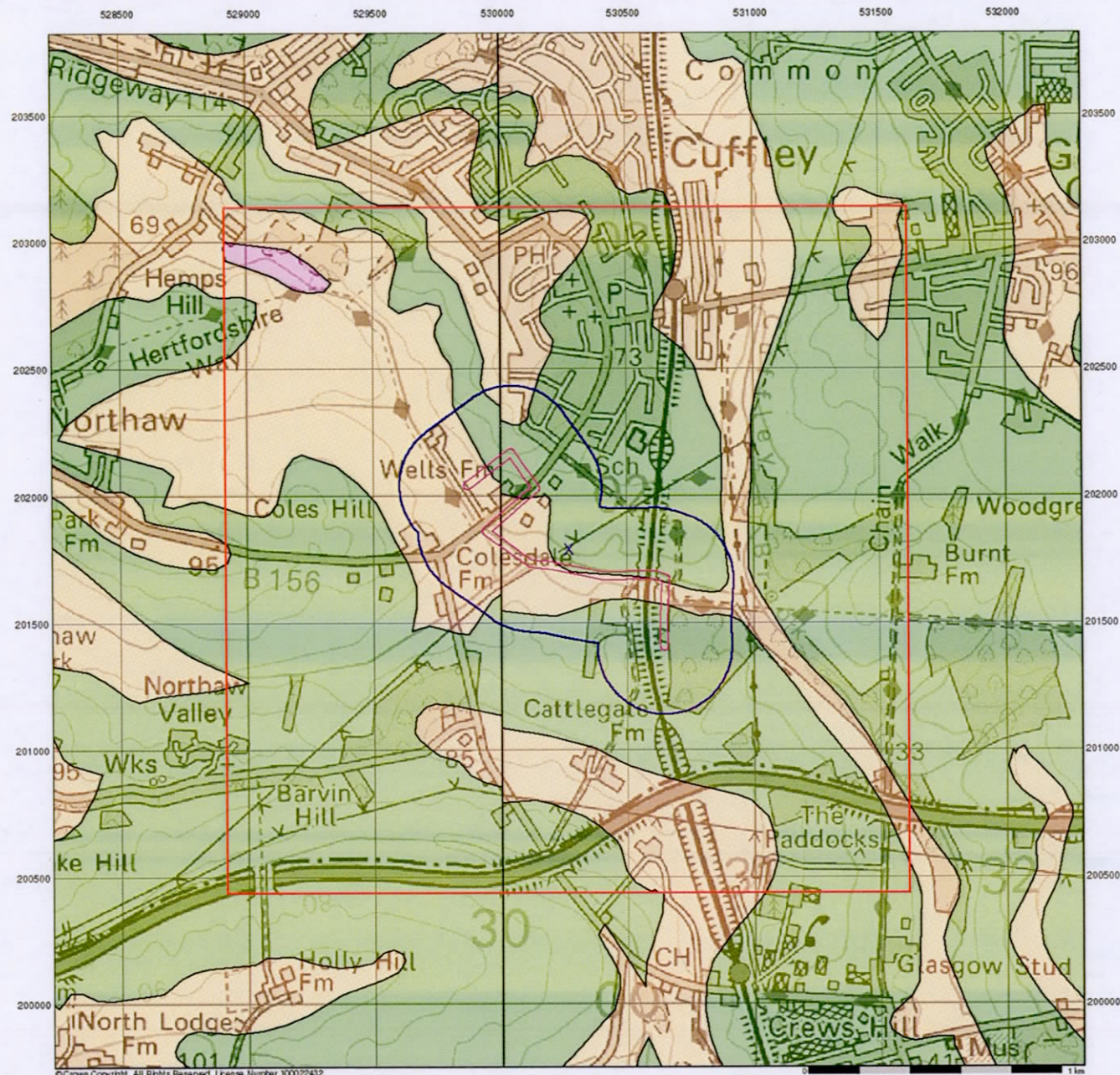
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	 Ordnance Survey Licensed Partner
Environment Agency	 Environment Agency
Scottish Environment Protection Agency	 SEPA Scottish Environmental Protection Agency
The Coal Authority	 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	 Cylleth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	 SCOTTISH NATURAL HERITAGE
Natural England	 NATURAL ENGLAND
Public Health England	 Public Health England
Overseas	 ARUP
Peter Brett Associates	 pba peterbrett



Contact	Name and Address	Contact Details
2	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
4	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmarkinfo.co.uk
5	<b>Welwyn Hatfield District Council</b> Council Offices, Campus East, Welwyn Garden City, Hertfordshire, AL8 6AE	Telephone: 01707 357000 Fax: 01707 375490 Website: www.welhat.gov.uk
6	<b>Broxbourne Borough Council</b> Bishop's College, Churchgate, Cheshunt, Waltham Cross, Hertfordshire, EN8 9XQ	Telephone: 01992 631921 Fax: 01992 639391 Website: www.broxbourne.gov.uk
7	<b>London Borough of Enfield</b> Civic Centre, Silver Street, Enfield, Middlesex, EN1 3XQ	Telephone: 020 8366 6565 Fax: 020 8982 7088 Website: www.enfield.gov.uk
8	<b>Natural England</b> Suite D, Unex House, Bourges Boulevard, Peterborough, Cambridgeshire, PE1 1NG	Telephone: 0845 600 3078 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
9	<b>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)</b> Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
10	<b>Hertfordshire County Council - County Development Unit</b> County Hall, Hertford, Hertfordshire, SG13 8DN	Telephone: 01992 556266 Fax: 01992 556202 Website: www.hertsdirect.org
11	<b>Welwyn Hatfield District Council - Environmental Health Department</b> Council Offices, Campus East, Welwyn Garden City, Hertfordshire, AL8 6AE	Telephone: 01707 357000 Fax: 01707 375490 Website: www.welhat.gov.uk
-	<b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	<b>Landmark Information Group Limited</b> 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

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## Groundwater Vulnerability

### General

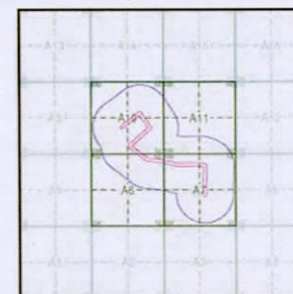
- ◇ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

- |   |  |   |
|---|--|---|
| <b>Major Aquifer (Highly Permeable)</b>   | <div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: #800080; border: 1px solid black; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #FF00FF; border: 1px solid black; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #FFA500; border: 1px solid black; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #FFD700; border: 1px solid black; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #90EE90; border: 1px solid black; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #ADD8E6; border: 1px solid black; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #FFFFFF; border: 1px solid black; margin-right: 5px;"></div> </div> | High (H) 1, 2, 3, U<br>Intermediate (I) 1, 2<br>Low |
| <b>Minor Aquifer (Variably Permeable)</b> | <div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: #800080; border: 1px solid black; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #FF00FF; border: 1px solid black; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #FFA500; border: 1px solid black; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #FFD700; border: 1px solid black; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #90EE90; border: 1px solid black; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #ADD8E6; border: 1px solid black; margin-right: 5px;"></div> <div style="width: 10px; height: 10px; background-color: #FFFFFF; border: 1px solid black; margin-right: 5px;"></div> </div> | High (H) 1, 2, 3, U<br>Intermediate (I) 1, 2<br>Low |
| <b>Non Aquifer (Negligibly Permeable)</b> | <div style="width: 10px; height: 10px; background-color: #90EE90; border: 1px solid black; margin-right: 5px;"></div>  |   |
| <b>Water or Sea</b>                       | <div style="width: 10px; height: 10px; background-color: #ADD8E6; border: 1px solid black; margin-right: 5px;"></div>  |   |
| <b>Drift Deposit</b>                      | <div style="width: 10px; height: 10px; background-color: #FFFFFF; border: 1px solid black; margin-right: 5px;"></div>  |   |

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 60967330\_1\_1  
 Customer Ref: 26435  
 National Grid Reference: 530270, 201790  
 Slice: A  
 Site Area (Ha): 5.08  
 Search Buffer (m): 250

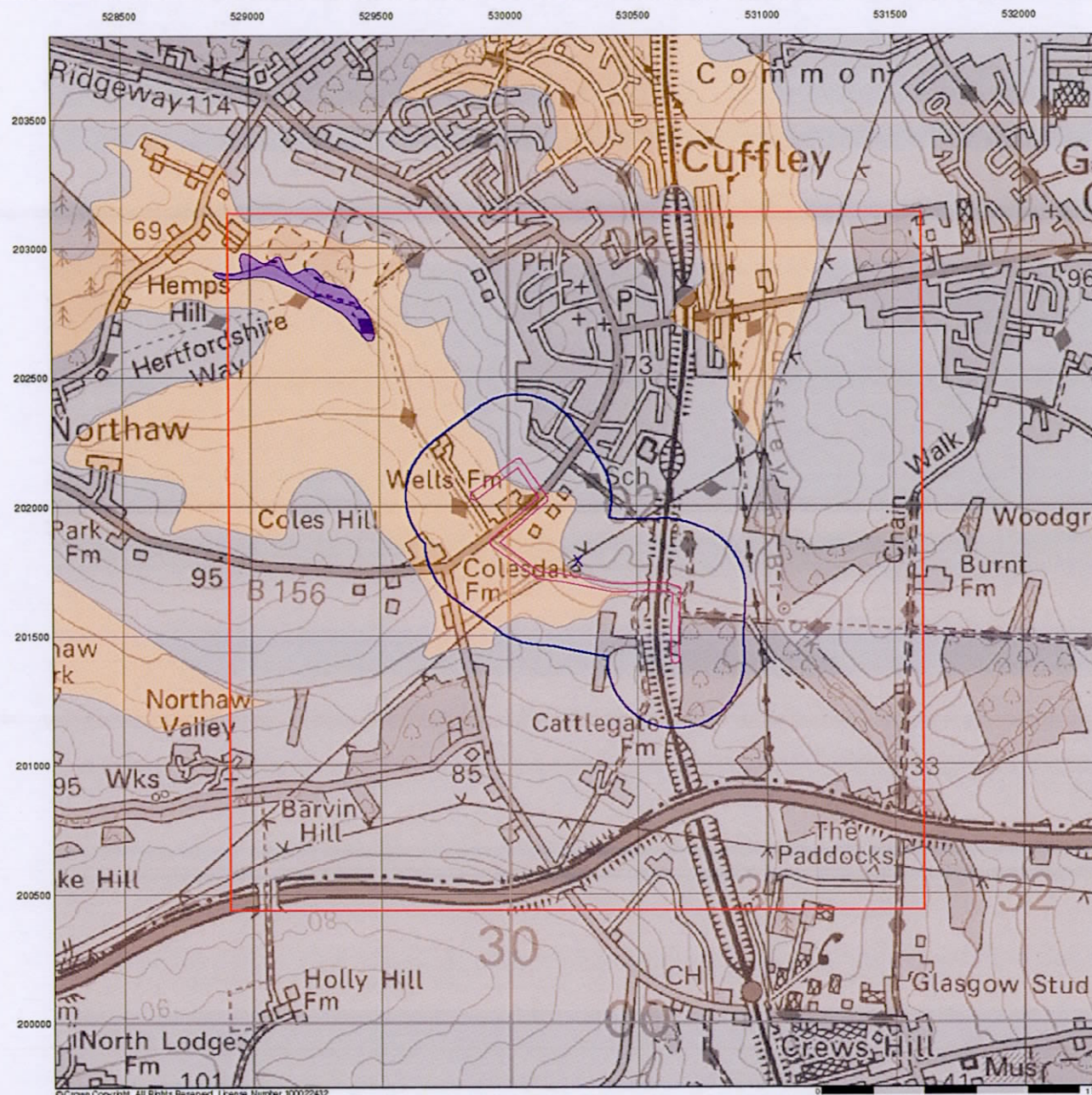
### Site Details

Site at, Cuffley Brook, Hertfordshire



Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: [www.envisirocheck.co.uk](http://www.envisirocheck.co.uk)





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## Bedrock Aquifer Designation

### General

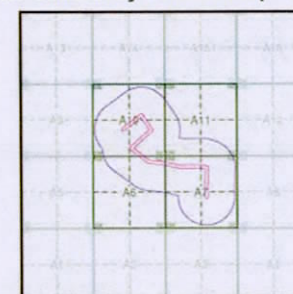
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 60967330\_1\_1  
 Customer Ref: 26435  
 National Grid Reference: 530270, 201790  
 Slice: A  
 Site Area (Ha): 5.08  
 Search Buffer (m): 250

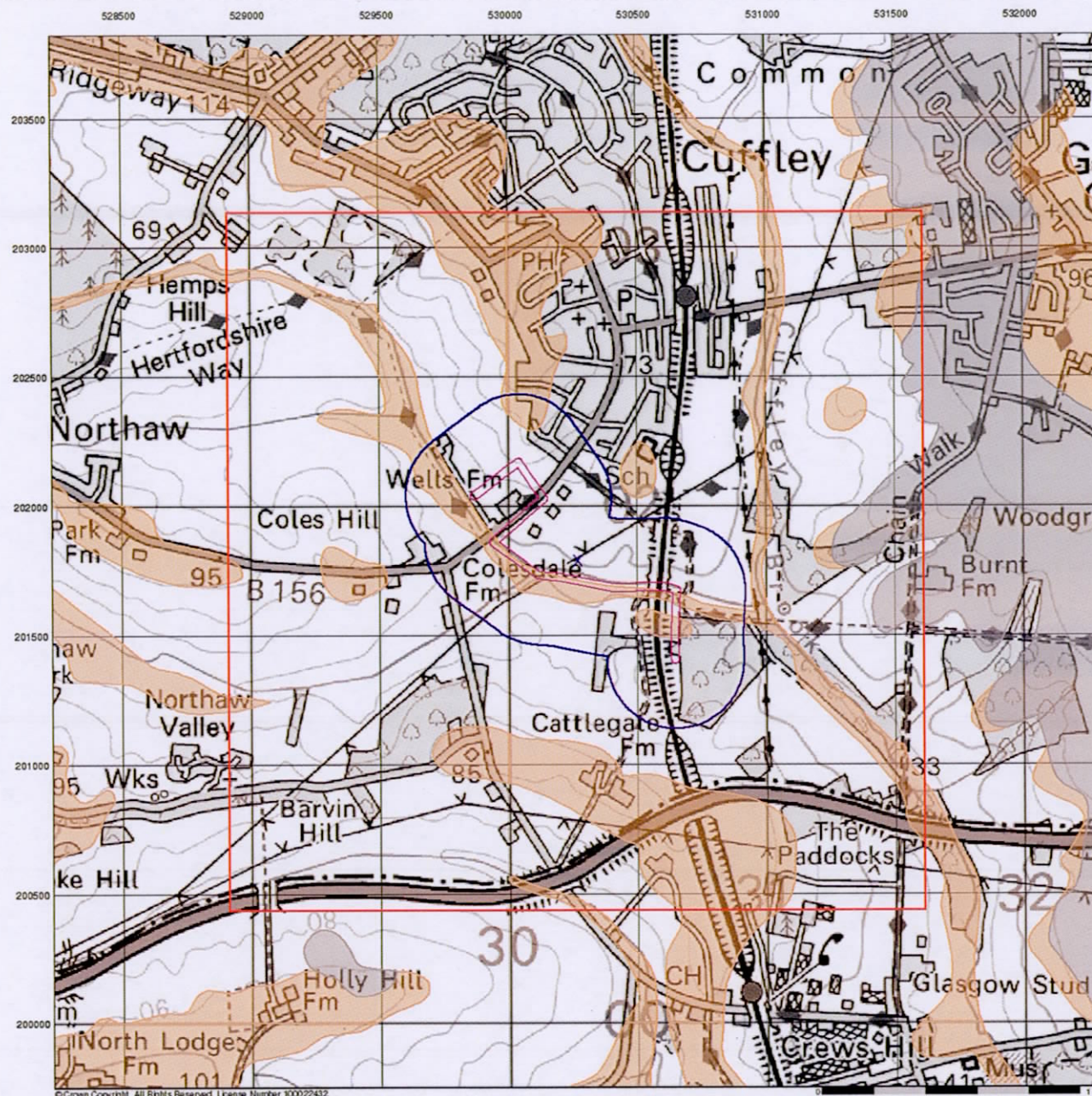
### Site Details

Site at, Cuffley Brook, Hertfordshire



Tel: 0844 844 9852  
 Fax: 0844 844 9851  
 Web: www.envirocheck.co.uk





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## Superficial Aquifer Designation

### General

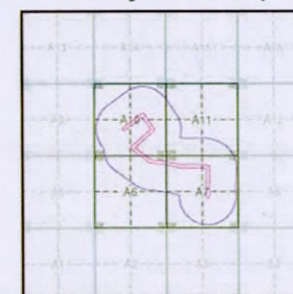
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 60967330\_1\_1  
 Customer Ref: 26435  
 National Grid Reference: 530270, 201790  
 Slice: A  
 Site Area (Ha): 5.08  
 Search Buffer (m): 250

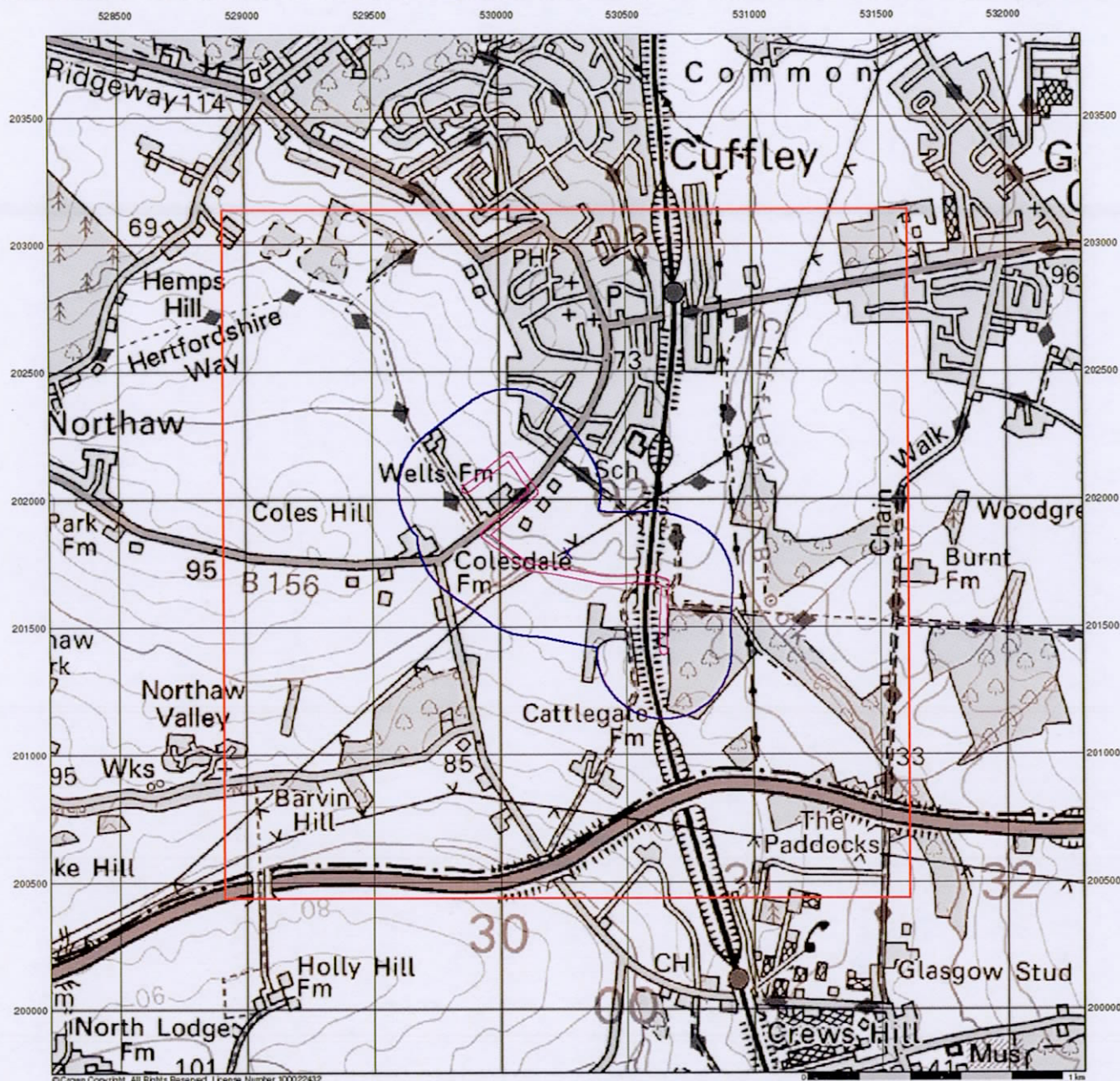
### Site Details

Site at, Cuffley Brook, Hertfordshire



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





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## Source Protection Zones

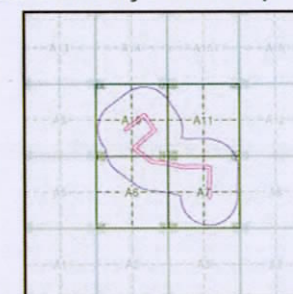
### General

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

### Agency and Hydrological

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

### Site Sensitivity Context Map - Slice A

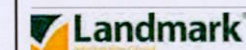


### Order Details

Order Number: 60967330\_1\_1  
 Customer Ref: 26435  
 National Grid Reference: 530270, 201790  
 Slice: A  
 Site Area (Ha): 5.08  
 Search Buffer (m): 250

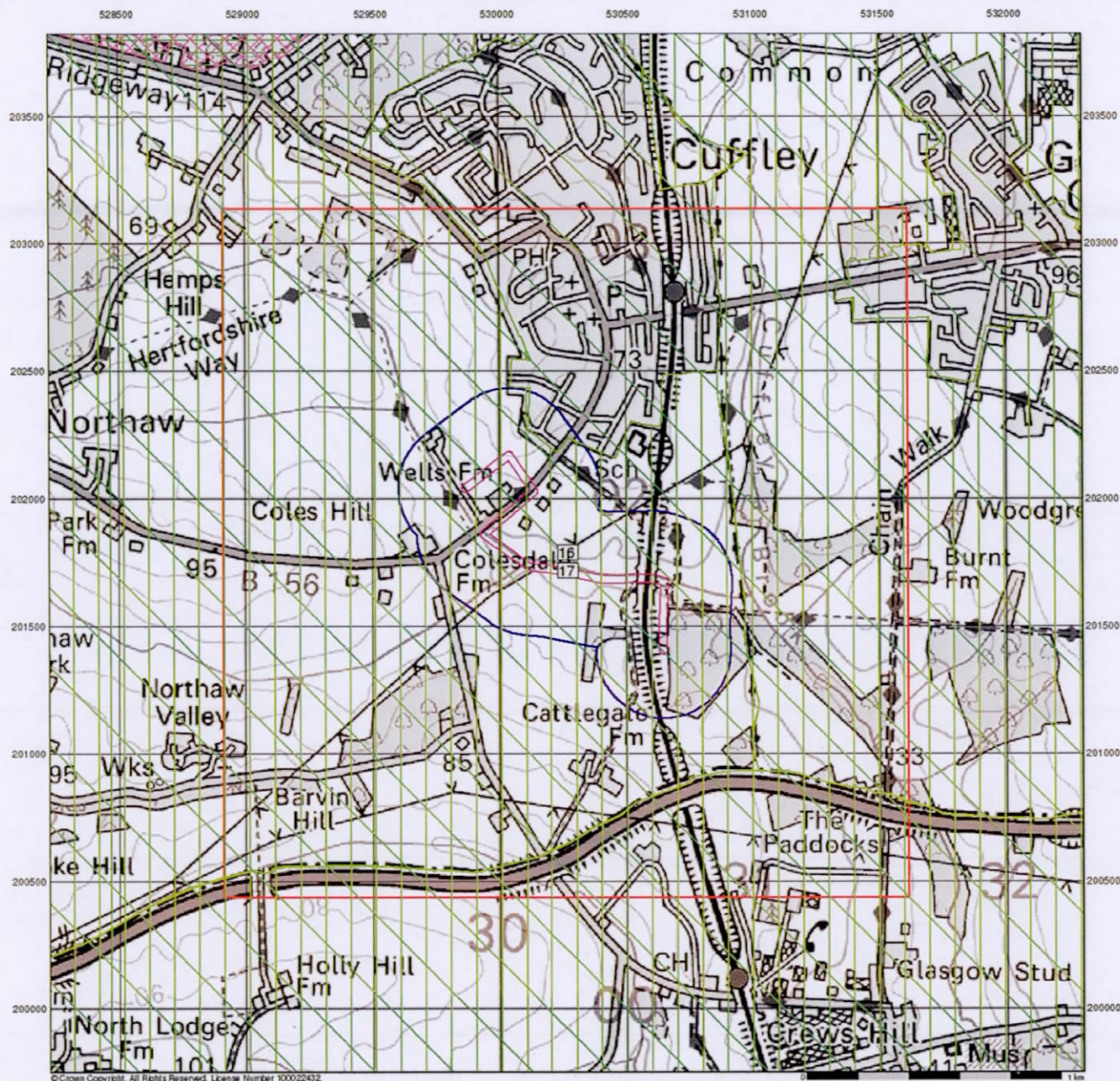
### Site Details

Site at, Cuffley Brook, Hertfordshire



Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: [www.enr/rocheck.co.uk](http://www.enr/rocheck.co.uk)





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## Sensitive Land Uses

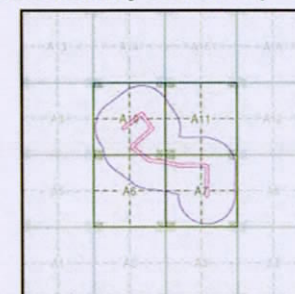
### General

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

### Sensitive Land Uses

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

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 60967330\_1\_1  
 Customer Ref: 26435  
 National Grid Reference: 530270, 201790  
 Slice: A  
 Site Area (Ha): 5.08  
 Search Buffer (m): 250

### Site Details

Site at, Cuffley Brook, Hertfordshire



Tel: 0844 844 9852  
 Fax: 0844 844 9851  
 Web: www.envirocheck.co.uk



## **Envirocheck<sup>®</sup> Report:**

### **BGS Boreholes Datasheet**

#### **Order Details:**

**Order Number:**

60967330\_1\_1

**Customer Reference:**

26435

**National Grid Reference:**

530270, 201790

**Slice:**

A

**Site Area (Ha):**

5.08

**Borehole Search Buffer (m):**

250

#### **Site Details:**

Site at

Cuffley Brook

Hertfordshire

#### **Client Details:**

Mr A Kent

RSK Environment Ltd

18 Frogmore Road

Hemel Hempstead

Herts

HP3 9RT



## BGS Boreholes Summary

Data Type	Page Number	On Site	0 to 250m
BGS Boreholes	pg 1	None	2

### Introduction

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

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

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A copy of the BGS Borehole Ordering Form is available to download from the Support section of [www.envirocheck.co.uk](http://www.envirocheck.co.uk).

### Report Version v49.0







## BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	<b>BGS Boreholes</b> BGS Reference: T120se130 Drilled Length (m): 12.98 Borehole Name: Northaw Pumping Station Link to Borehole Scan: <a href="http://scans.bgs.ac.uk/sobi_scans/boreholes/532832/">http://scans.bgs.ac.uk/sobi_scans/boreholes/532832/</a>	A10NW (NW)	178	2	529750 202190
19	<b>BGS Boreholes</b> BGS Reference: T120se13 Drilled Length (m): 91.44 Borehole Name: Barnet District Water Co Link to Borehole Scan: <a href="http://scans.bgs.ac.uk/sobi_scans/boreholes/532715/">http://scans.bgs.ac.uk/sobi_scans/boreholes/532715/</a>	A10NW (NW)	212	2	529760 202240

BGS Boreholes	Version	Update Cycle
<b>BGS Boreholes</b> British Geological Survey - National Geoscience Information Service	August 2014	Quarterly

Contact Details	Contact Logo
<b>2 British Geological Survey - Enquiry Service</b> British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: <a href="mailto:enquiries@bgs.ac.uk">enquiries@bgs.ac.uk</a> Website: <a href="http://www.bgs.ac.uk">www.bgs.ac.uk</a>	 <b>British Geological Survey</b> NATURAL ENVIRONMENT RESEARCH COUNCIL
<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: <a href="mailto:customerservices@landmarkinfo.co.uk">customerservices@landmarkinfo.co.uk</a> Website: <a href="http://www.landmarkinfo.co.uk">www.landmarkinfo.co.uk</a>	 <b>LANDMARK<sup>®</sup></b> Information Group

## **APPENDIX C**

### **CORRESPONDENCE WITH REGULATORY AUTHORITIES**

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## **APPENDIX D**

# **BACKGROUND TO ASSESSMENT OF ENVIRONMENTAL LIABILITY**

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### **Contaminated land**

Part IIA of the Environmental Protection Act 1990, defines *Contaminated Land* as follows:

"Any land which appears to the Local Authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that -

- (a) SIGNIFICANT HARM is being caused or there is a SIGNIFICANT POSSIBILITY of such harm being caused; or
- (b) POLLUTION OF CONTROLLED WATERS is being, or is likely to be, caused."

The second part of the above definition is currently subject to possible amendment under the Water Bill. The Consultation Draft of the Water Bill indicates that the definition of Contaminated Land in relation to pollution of controlled waters may be amended to reflect the significance of the impact. Assuming that this amendment is accepted, land will be defined as 'Contaminated Land' only where:

- (a) SIGNIFICANT POLLUTION of controlled waters is being caused; or
- (b) There is a SIGNIFICANT POSSIBILITY of SIGNIFICANT POLLUTION of controlled waters being caused.

### **Risk assessment**

The definition of *Contaminated Land* under Part IIA of the Environmental Protection Act 1990, is based upon the principles of risk assessment. For the purposes of this guidance, "risk" is defined as the combination of:

- (a) the probability, or frequency, of occurrence of a defined hazard (for example, exposure to a property of a substance with the potential to cause harm)
- (b) the magnitude (including the seriousness) of the consequences.

### **Pollutant linkage**

The basis of an environmental risk assessment involves:

- (i) identifying a source of contamination
- (ii) identifying a pathway/media through which the contamination may migrate
- (iii) identifying a receptor or target at risk from the contamination.

Current legislation gives the following the definitions:

A *contaminant* is a substance which is in, on or under the land and which has the potential to cause harm or to cause pollution of controlled waters.

A *pathway* is one or more routes or means by, or through, which a receptor:

- (a) is being exposed to, or affected by, a contaminant, or
- (b) could be so affected.

A *receptor* is either:

- (a) a living organism, an ecological system or a piece of property or
- (b) controlled waters.

The term 'pollutant linkage' indicates that all three elements (i.e. contaminant/pathway/receptor) have been identified. The site can only be designated within the context of the Part IIA legislation as *Contaminated Land* if there is a pollutant linkage and the contamination meets the criteria, outlined in Section 5.1. Land that fails to meet all the criteria required to classify it as Contaminated Land, as described above, may still contain harmful and/or hazardous substances. The presence of these substances may affect current operations on the site and may be a material consideration in any future development of the site