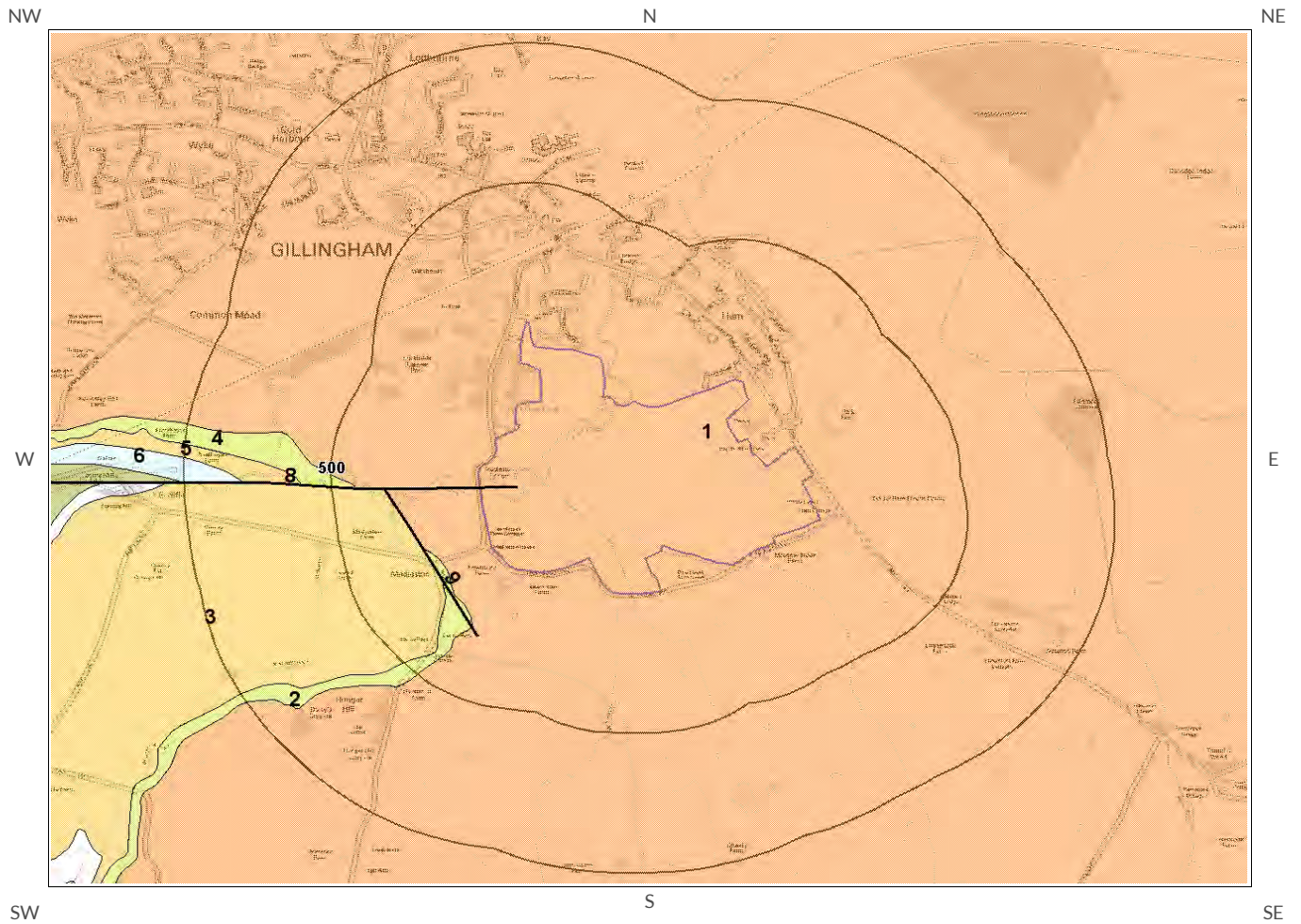


# 1.3 Bedrock and Faults Map



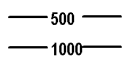
Bedrock and Faults Legend



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Site Outline



Search Buffers (m)

# 1.3 Bedrock, Solid Geology & Faults

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:297

## 1.3.1 Bedrock/ Solid Geology

Records of Bedrock/ Solid Geology within 500m of the study site boundary:

ID	Distance (m)	Direction	LEX Code	Description	Rock Age
1	0.0	On Site	KC-MDST	Kimmeridge Clay Formation - Mudstone	Kimmeridgian
2	172.0	SW	SFG-SDAR	Sandsfoot Grit Member - Interbedded Sandstone And [subequal/subordinate] Argillaceous Rocks	Oxfordian
3	203.0	SW	ECC-OOLM	Eccliffe Member - Ooidal Limestone	Oxfordian
4	419.0	W	SFG-SDAR	Sandsfoot Grit Member - Interbedded Sandstone And [subequal/subordinate] Argillaceous Rocks	Oxfordian

## 1.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site\* boundary? Yes

Distance (m)	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Fracture	Low	Very Low
0.0	On Site	Fracture	Low	Very Low

## 1.3.3 Faults

Are there any records of Faults within 500m of the study site boundary? Yes

ID	Distance (m)	Direction	Category Description	Feature Description
8	0.0	On Site	FAULT	Normal fault, inferred
9	203.0	SW	FAULT	Normal fault, inferred

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as Faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

\* This includes an automatically generated 50m buffer zone around the site

# 1.4 Radon Data

## 1.4.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level

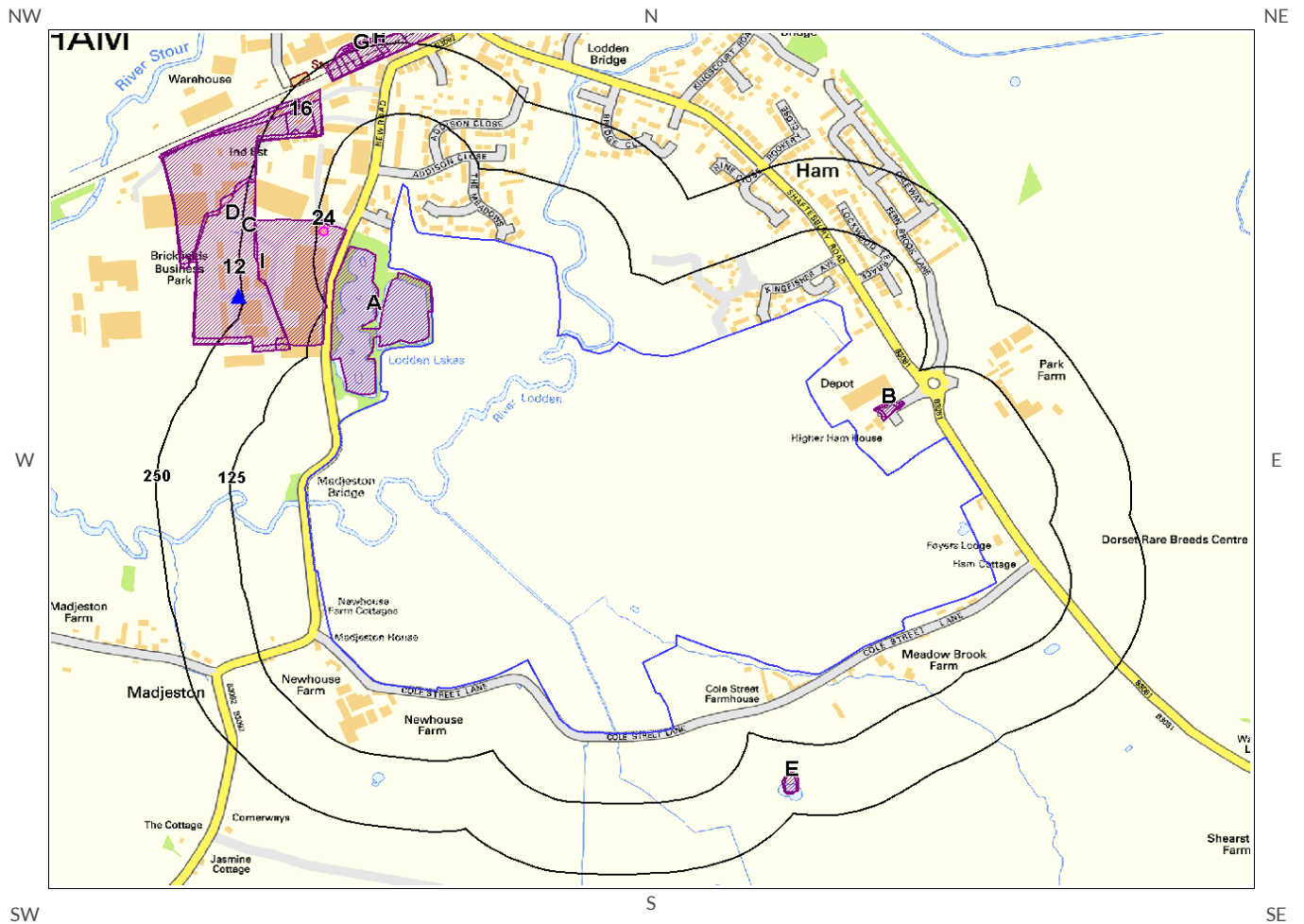
---

## 1.4.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary

---


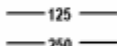



# 2 Ground Workings Map



## Ground Workings Legend



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-  Site Outline
-  Search Buffers (m)
-  Historic Surface Ground Workings
-  Historic Underground Workings
-  Current Ground Workings





## 2 Ground Workings

### 2.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on GroundSure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping.

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? **Yes**

The following Historical Surface Ground Working Features are provided by GroundSure:

ID	Distance (m)	Direction	NGR	Use	Date
1A	0.0	On Site	381121 125684	Lakes	1983
2A	0.0	On Site	381121 125684	Lakes	1992
3B	44.0	NE	381971 125521	Ponds	1938
4B	44.0	NE	381971 125521	Ponds	1886
5B	50.0	NE	381973 125526	Ponds	1886
6B	50.0	NE	381973 125526	Ponds	1886
7I	75.0	W	380933 125787	Unspecified Pit	1938
8C	75.0	W	380907 125857	Brick and Tile Works	1938
9D	152.0	NW	380886 125860	Brick and Tile Works	1886
10C	152.0	NW	380886 125860	Brick and Tile Works	1886
11D	162.0	NW	380883 125852	Brick and Tile Works	1886
12	163.0	W	380883 125779	Clay Pit	1886
13E	178.0	S	381808 124865	Pond	1886
14E	178.0	S	381808 124865	Pond	1886
15E	179.0	S	381805 124864	Pond	1886
16	181.0	NW	380984 126034	Unspecified Pit	1938
17F	216.0	NW	381143 126172	Cuttings	1886
18F	216.0	NW	381143 126172	Cuttings	1886
19G	216.0	NW	381088 126150	Cuttings	1956
20G	217.0	NW	381066 126147	Cuttings	1983
21H	218.0	NW	381240 126218	Cuttings	1886

ID	Distance (m)	Direction	NGR	Use	Date
22G	224.0	N	381095 126160	Cuttings	1938
23H	247.0	N	381198 126203	Cuttings	1956

## 2.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the GroundSure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? **Yes**

The following Historical Underground Working Features are provided by GroundSure:

ID	Distance (m)	Direction	NGR	Use	Date
24	106.0	W	381024 125842	Tunnels	1983

## 2.3 Current Ground Workings

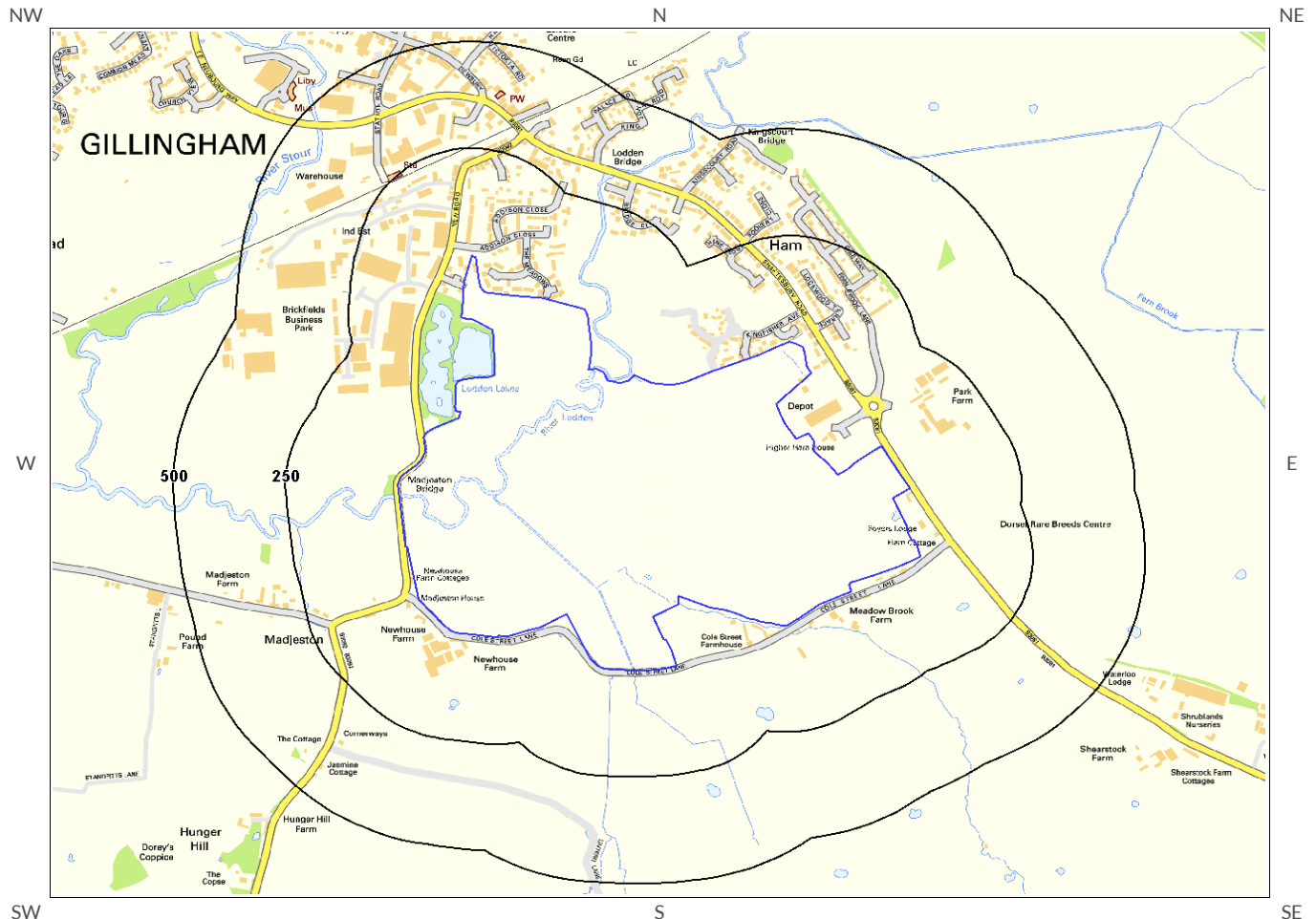
This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

Are there any BGS Current Ground Workings within 1000m of the study site boundary? **Yes**

The following Current Ground Workings information is provided by British Geological Survey:

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
25I	258.0	W	380880 125726	Clay & Shale	Gillingham Brick & Tile Works	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	676.0	SW	380416 124852	Limestone	Standpitts Lane	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	997.0	SW	380147 124669	Limestone	Standpitts Lane	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased

# 3 Mining, Extraction & Natural Cavities Map



Mining, Extraction and Natural Cavities Legend

Mapping sourced from 

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# 3 Mining, Extraction & Natural Cavities

## 3.1 Historical Mining

This dataset is derived from GroundSure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 3.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 3.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? No

The following information provided by JPB is not represented on mapping: Database searched and no data found.

---

## 3.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---



### 3.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled "Review of mining instability in Great Britain, 1990" PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? No

Database searched and no data found.

---

### 3.6 Natural Cavities

This dataset provides information based on Peter Brett Associates natural cavities database.

Are there any Natural Cavities within 1000m of the study site boundary? No

Database searched and no data found.

---

### 3.7 Brine Extraction

This dataset provides information from the Brine Compensation Board which has been discontinued and is now covered by the Coal Authority.

Are there any Brine Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

---

### 3.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

---

### 3.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level.

Are there any Tin Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

### 3.10 Clay Mining

This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

Are there any Clay Mining areas within 1000m of the study site boundary?

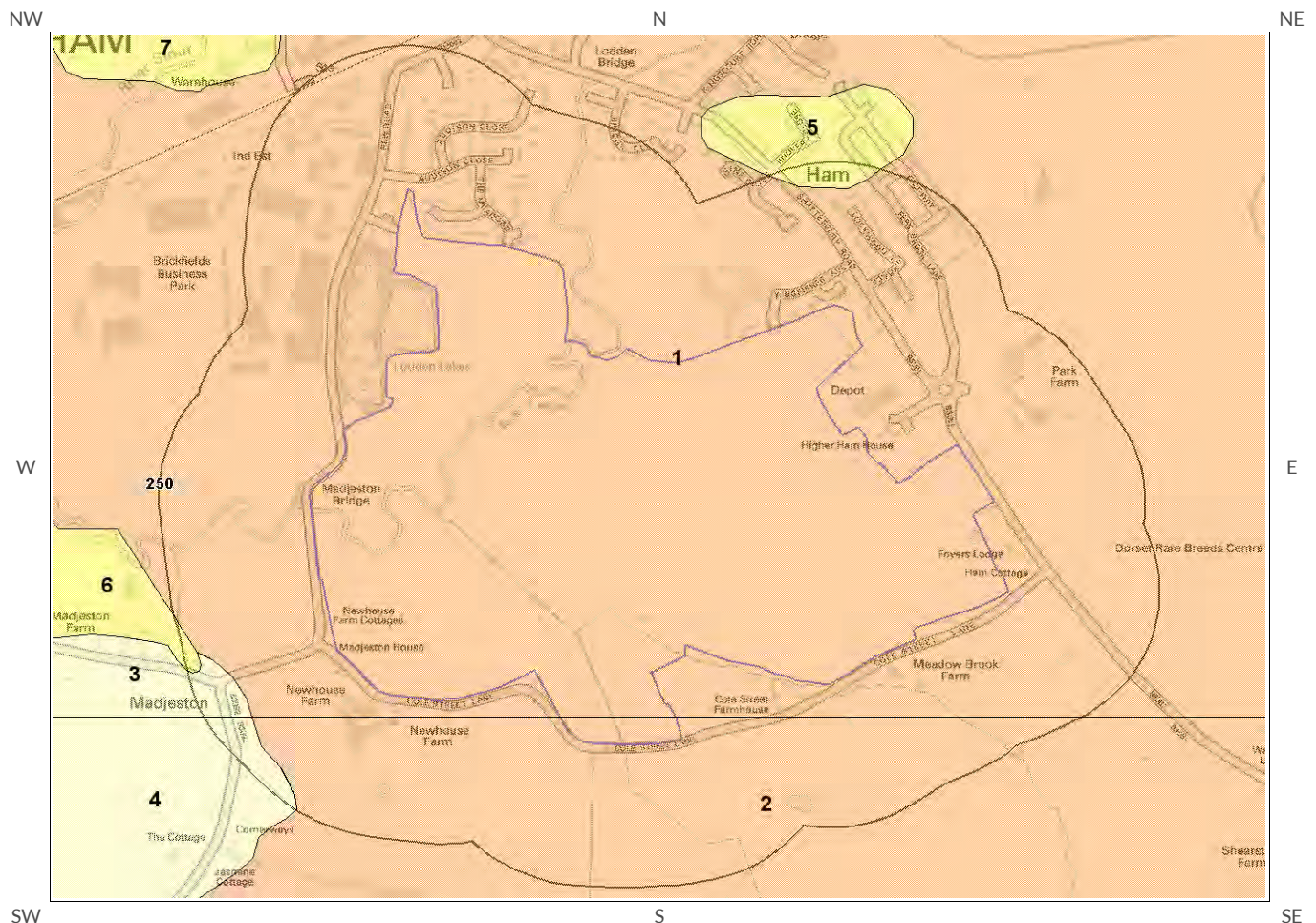
No

Database searched and no data found.

---

# 4 Natural Ground Subsidence

## 4.1 Shrink-Swell Clay Map



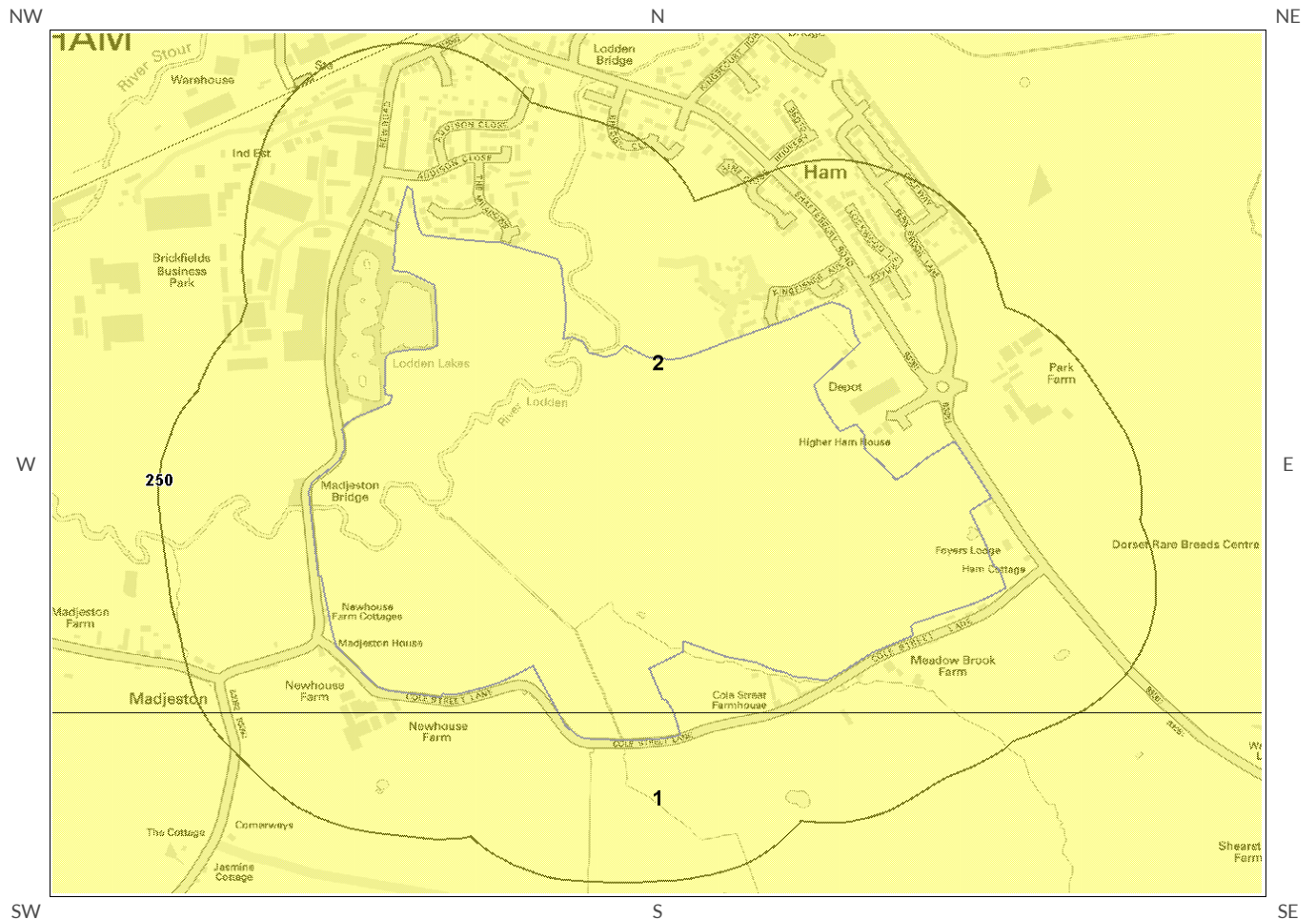
Shrink Swell Clay Legend



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# 4.2 Landslides Map



Landslides Legend

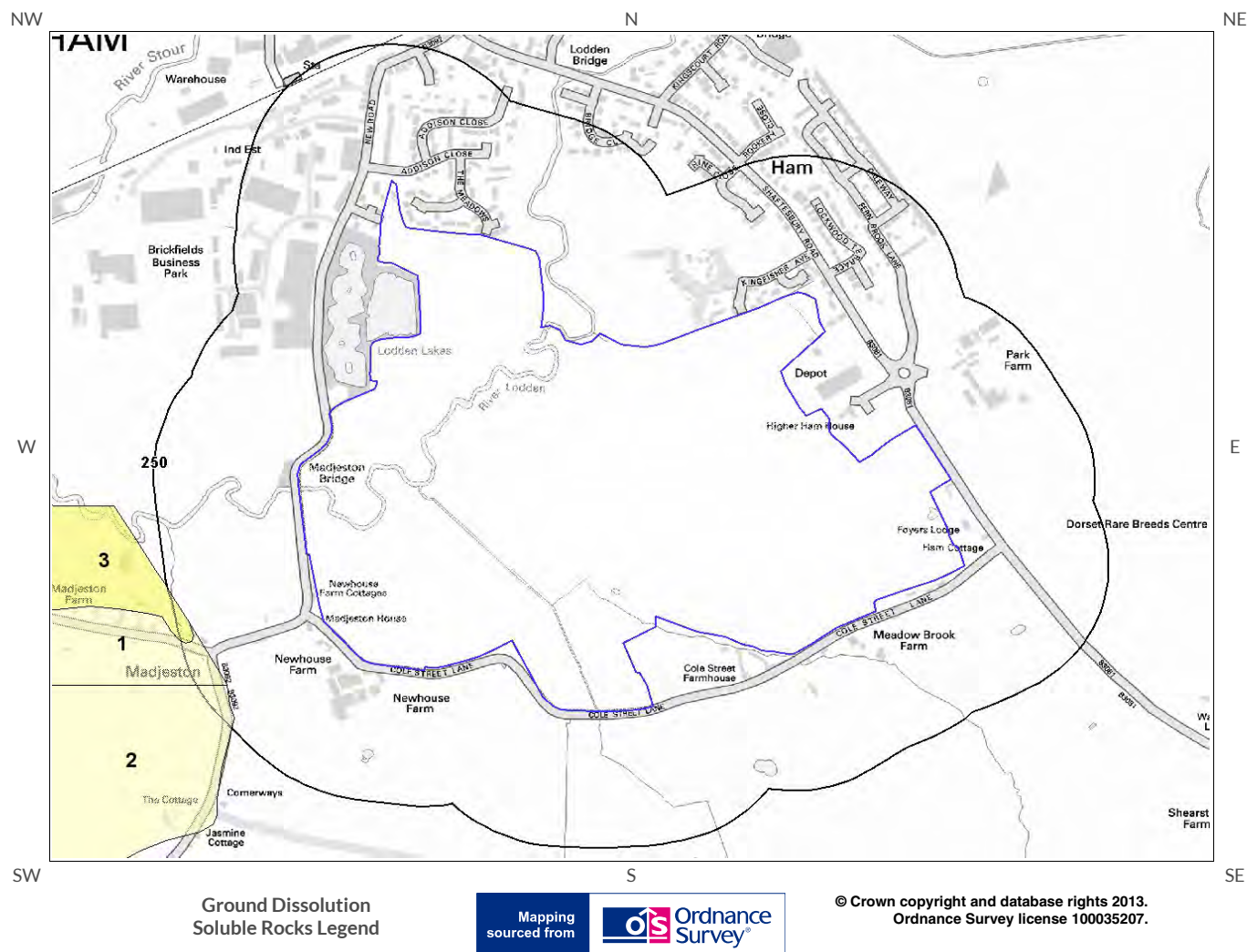


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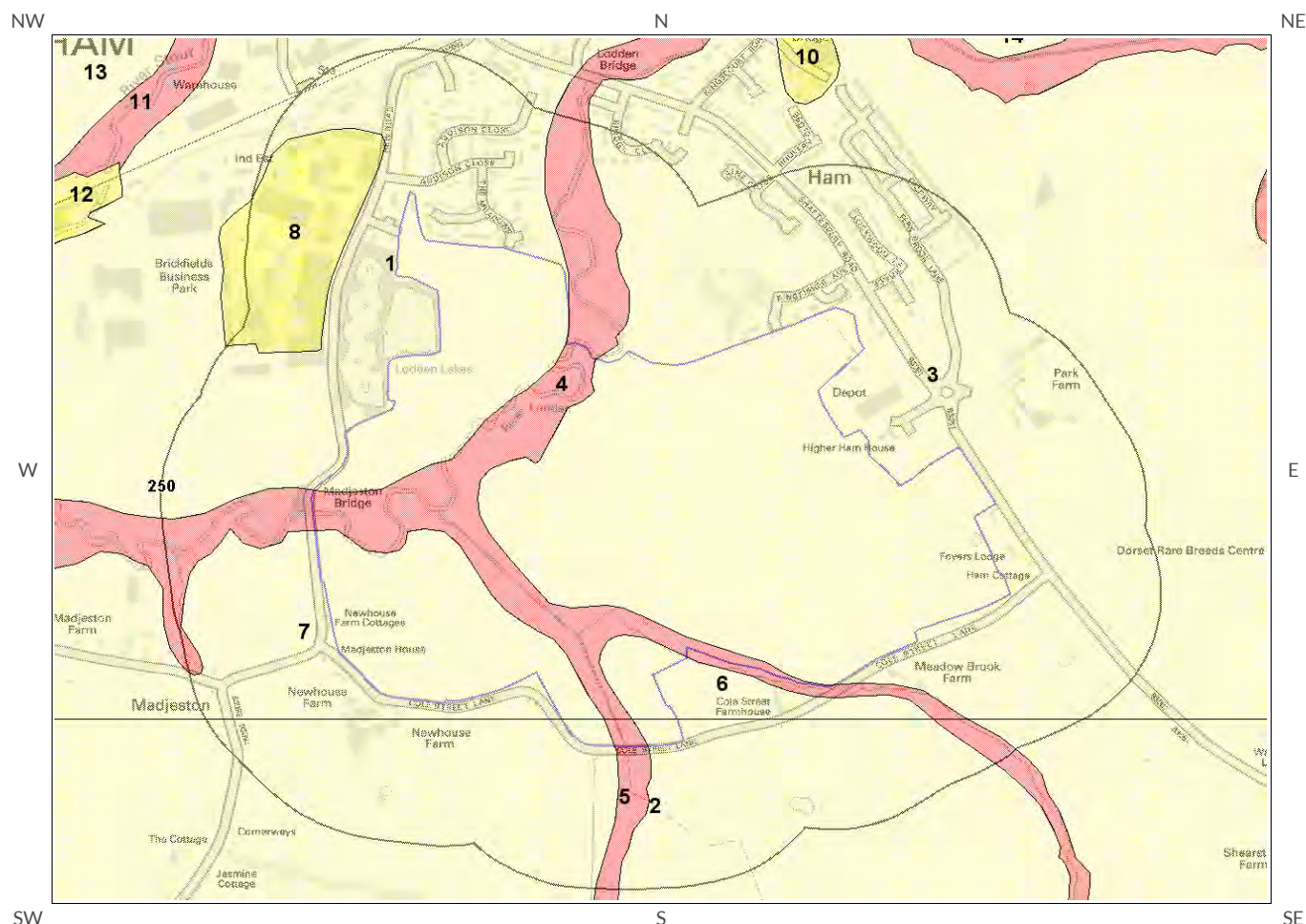


# 4.3 Ground Dissolution Soluble Rocks Map





# 4.4 Compressible Deposits Map



Compressible Deposits Legend

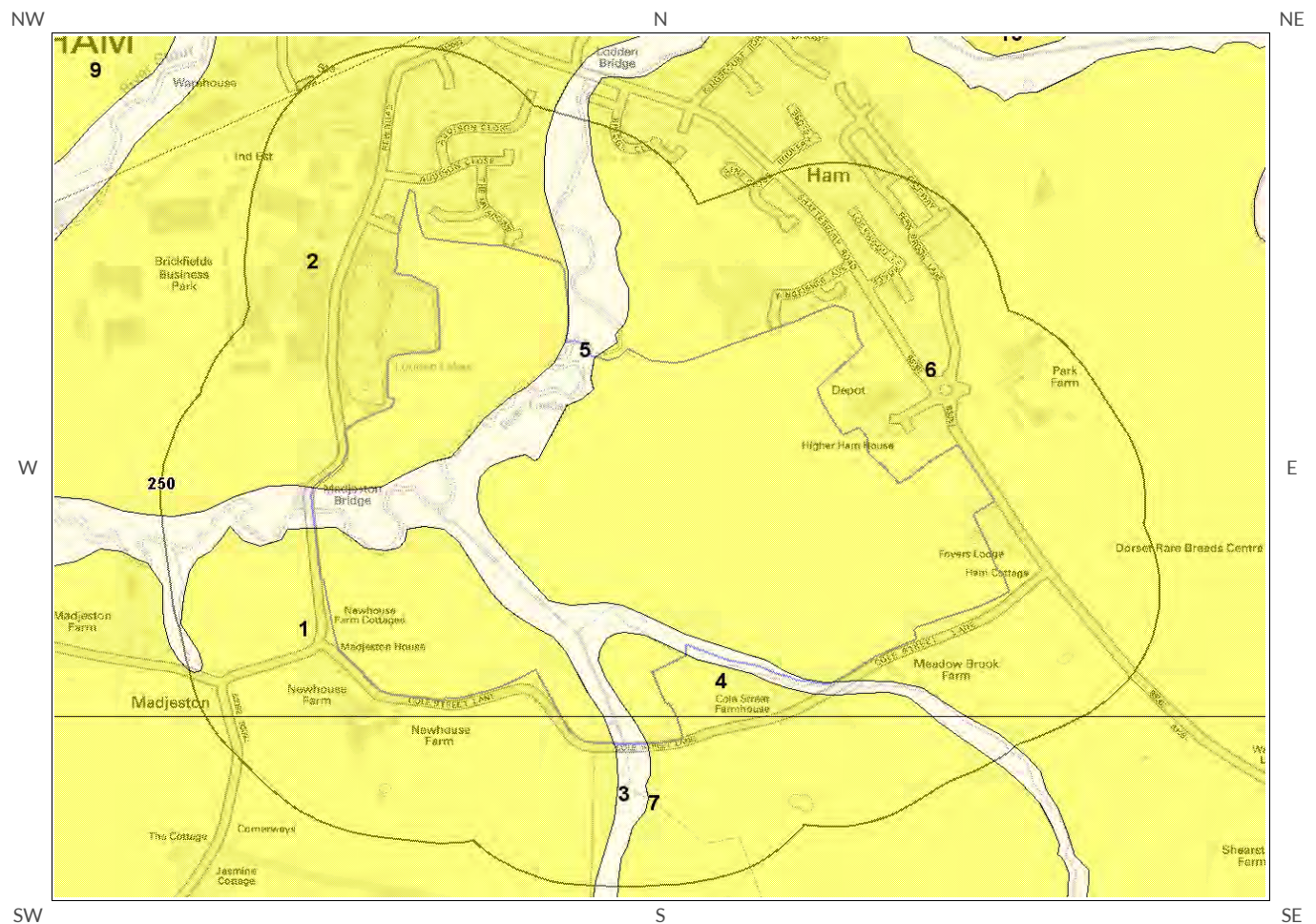


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# 4.5 Collapsible Deposits Map



Collapsible Deposits Legend

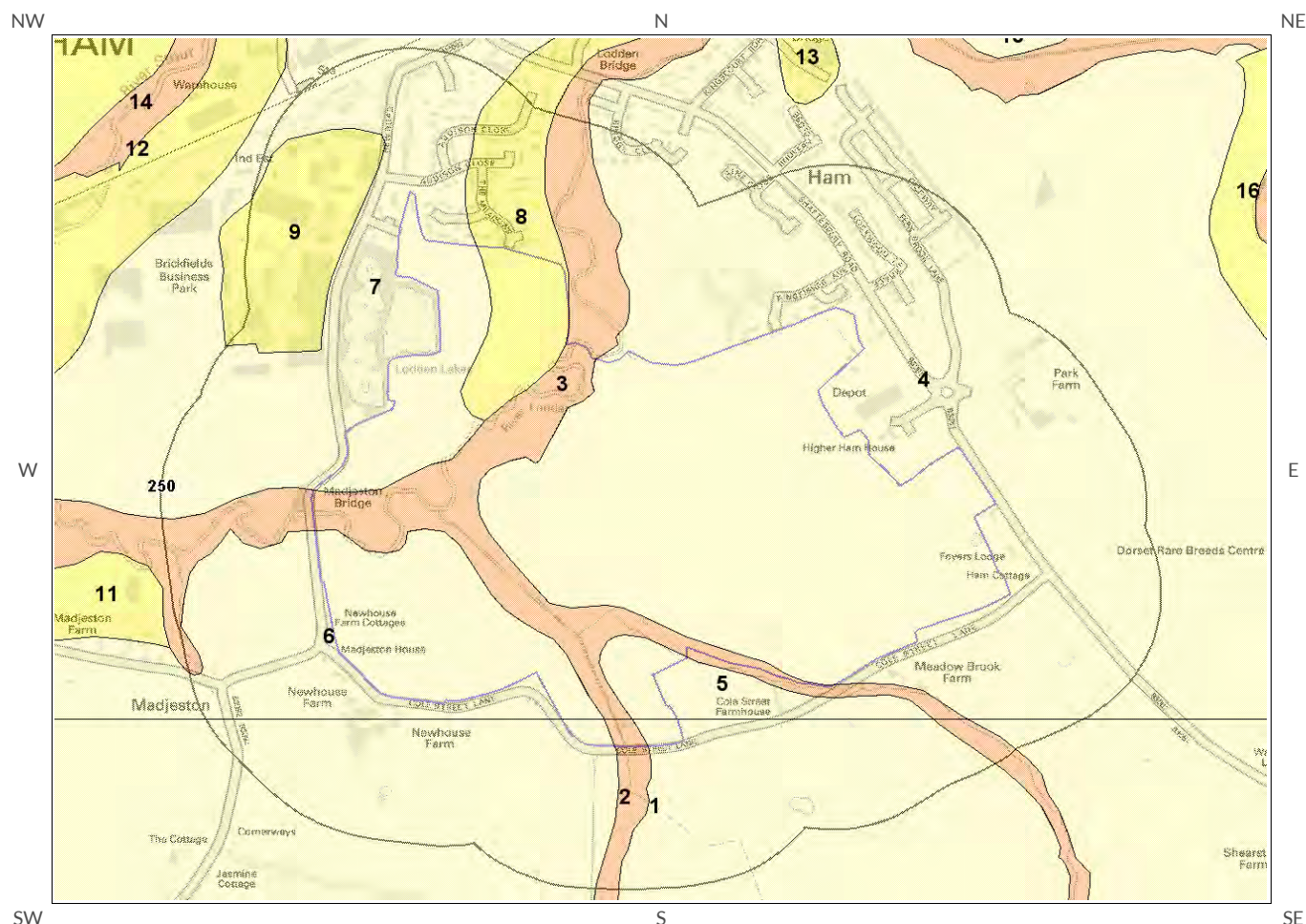


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# 4.6 Running Sand Map



Running Sand Legend



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# 4 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site\*\* boundary? Moderate

## 4.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Low	Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.
2	0.0	On Site	Low	Ground conditions predominantly medium plasticity. Do not plant trees with high soil moisture demands near to buildings. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a possible increase in insurance risk, especially during droughts or where vegetation with high moisture demands is present.

## 4.2 Landslides

The following Landslides information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

\* This includes an automatically generated 50m buffer zone around the site

ID	Distance (m)	Direction	Hazard Rating	Details
2	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

### 4.3 Ground Dissolution of Soluble Rocks

The following Compressible Deposits information provided by the British Geological Survey:

Distance (m)	Direction	Hazard Rating	Details
0	On site	Null-Negligible	Soluble rocks are not present in the search area. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

### 4.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
2	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
3	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
4	0.0	On Site	Moderate	Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.
5	0.0	On Site	Moderate	Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.
6	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.



ID	Distance (m)	Direction	Hazard Rating	Details
7	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

## 4.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
2	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
3	0.0	On Site	Negligible	No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
4	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
5	0.0	On Site	Negligible	No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
6	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
7	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

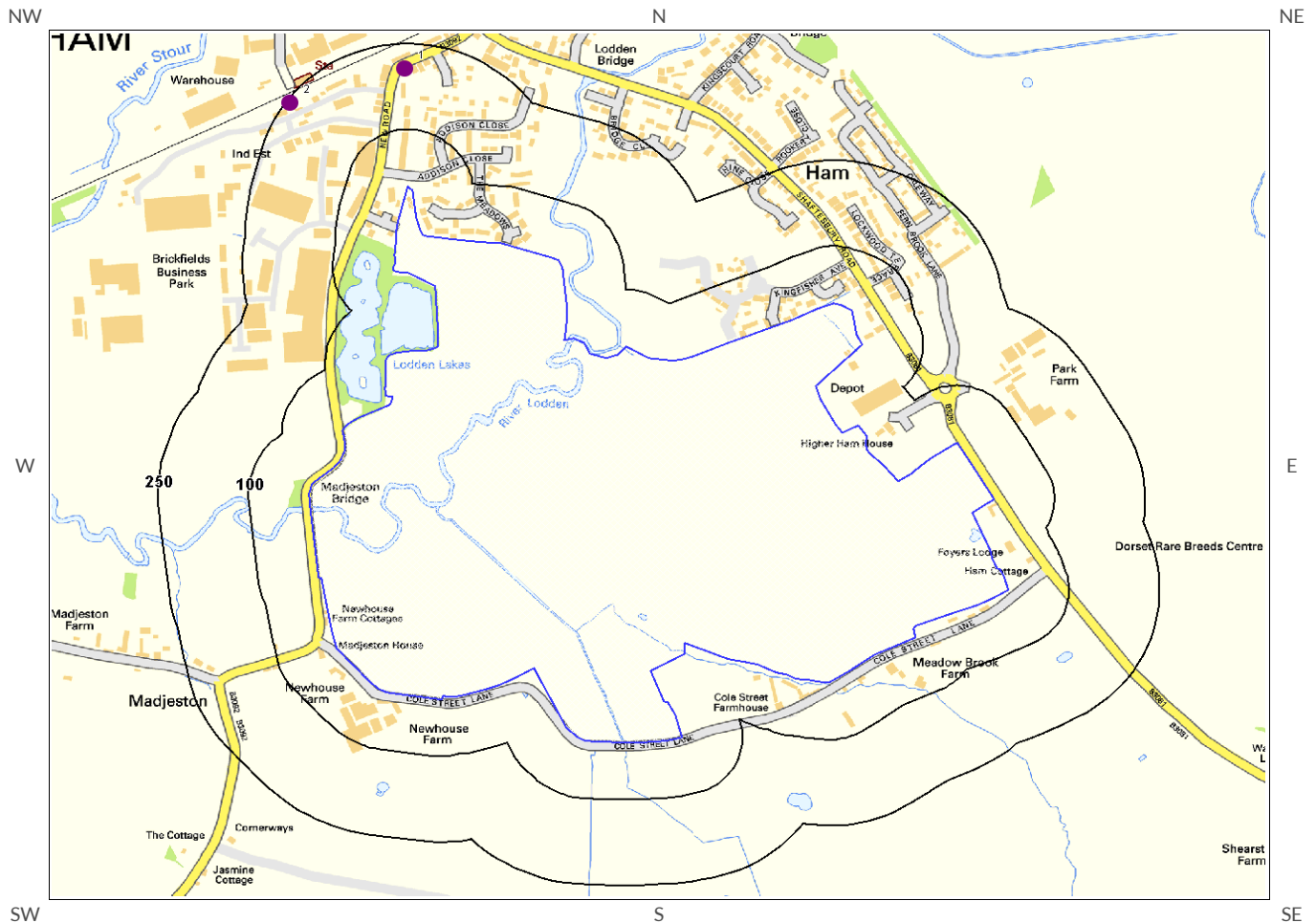
## 4.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

ID	Distance (m)	Direction	Hazard Rating	Details
2	0.0	On Site	Low	Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build - consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property - no significant increase in insurance risk due to running sand problems is likely.
3	0.0	On Site	Low	Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build - consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property - no significant increase in insurance risk due to running sand problems is likely.
4	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
5	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
6	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
7	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
8	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

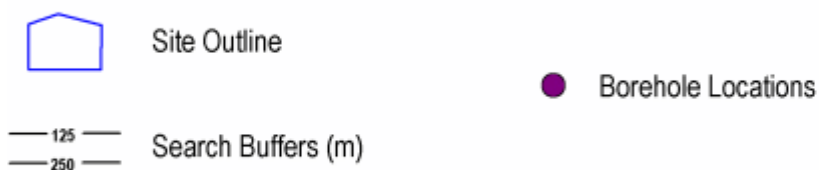
# 5 Borehole Records Map



Borehole Records Legend



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## 5 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary:

2

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
1	205.0	N	381150 126130	ST82NW5	45.72	GILLINGHAM 297/117
2	244.0	NW	380960 126070	ST82NW1	6.4	GILLINGHAM NO.1

Additional online information is available for the following boreholes listed above:

#1: [scans.bgs.ac.uk/sobi\\_scans/boreholes/394974](https://scans.bgs.ac.uk/sobi_scans/boreholes/394974)

#2: [scans.bgs.ac.uk/sobi\\_scans/boreholes/394970](https://scans.bgs.ac.uk/sobi_scans/boreholes/394970)



## 6 Estimated Background Soil Chemistry

Records of background estimated soil chemistry within 250m of the study site boundary:

49

For further information on how this data is calculated and limitations upon its use, please see the GroundSure GeolInsight User Guide, available on request.

Distance (m)	Direction	Sample Type	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
7.0	S	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
12.0	NE	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
27.0	NE	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
39.0	S	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
62.0	N	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
75.0	N	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
78.0	SE	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
106.0	SE	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
108.0	SW	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
123.0	NE	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
125.0	NE	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
126.0	SE	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<150 mg/kg
135.0	SE	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
155.0	SW	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
157.0	SE	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
159.0	SE	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<150 mg/kg
160.0	SW	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
172.0	SW	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<150 mg/kg
173.0	NW	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<150 mg/kg
184.0	SW	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<150 mg/kg



Distance (m)	Direction	Sample Type	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
187.0	N	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
191.0	SE	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
203.0	SW	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
204.0	SW	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
209.0	N	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
209.0	S	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
227.0	W	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg
239.0	NE	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<150 mg/kg

\*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

# Contact Details



GroundSure Helpline  
Telephone: 08444 159 000  
info@groundsuresure.com



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## British Geological Survey Enquiries

Kingsley Dunham Centre  
Keyworth, Nottingham NG12 5GG  
Tel: 0115 936 3143.  
Fax: 0115 936 3276.  
Email: [enquiries@bgs.ac.uk](mailto:enquiries@bgs.ac.uk)  
Web: [www.bgs.ac.uk](http://www.bgs.ac.uk)



BGS Geological Hazards Reports and general geological enquiries

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## British Gypsum

British Gypsum Ltd  
East Leake  
Loughborough  
Leicestershire  
LE12 6HX



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## The Coal Authority

200 Lichfield Lane  
Mansfield  
Notts NG18 4RG  
Tel: 0845 762 6848  
DX 716176 Mansfield 5  
[www.coal.gov.uk](http://www.coal.gov.uk)



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## Public Health England

Public information access office  
Public Health England, Wellington House  
133-155 Waterloo Road, London, SE1 8UG  
<https://www.gov.uk/government/organisations/public-health-england>  
Email: [enquiries@phe.gov.uk](mailto:enquiries@phe.gov.uk)  
Main switchboard: 020 7654 8000



---

## Johnson Poole & Bloomer Limited

Harris and Pearson Building, Brettell Lane  
Brierley Hill, West Midlands  
DY5 3LH  
Tel: +44 (0) 1384 262 000  
Email: [enquiries.gs@pb.co.uk](mailto:enquiries.gs@pb.co.uk)  
Website: [www.jpb.co.uk](http://www.jpb.co.uk)



---

## Ordnance Survey

Romsey Road  
Southampton SO16 4GU  
Tel: 08456 050505  
Website: <http://www.ordnancesurvey.co.uk/>



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## Getmapping PLC

Virginia Villas, High Street, Hartley Witney,  
Hampshire RG27 8NW  
Tel: 01252 845444  
Website: <http://www1.getmapping.com/>



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## Peter Brett Associates

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Waterman Place  
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Tel: +44 (0)118 950 0761 E-mail: [reading@pba.co.uk](mailto:reading@pba.co.uk)  
Website: <http://www.peterbrett.com/home>



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Report Reference: HMD-411-1324031

Client Reference: 14114

## Standard Terms and Conditions

### 1 Definitions

In these terms and conditions unless the context otherwise requires:

**"Beneficiary"** means the person or entity for whose benefit the Client has obtained the Services.

**"Client"** means the party or parties entering into a Contract with GroundSure.

**"Commercial"** means any building or property which is not Residential.

**"Confidential Information"** means the contents of this Contract and all information received from the Client as a result of, or in connection with, this Contract other than

(i) information which the Client can prove was rightfully in its possession prior to disclosure by GroundSure and

(ii) any information which is in the public domain (other than by virtue of a breach of this Contract).

**"Support Services"** means Support Services provided by GroundSure including, without limitation, interpreting third party and in-house environmental data, providing environmental support advice, undertaking environmental audits and assessments, Site investigation, Site monitoring and related items.

**"Contract"** means the contract between GroundSure and the Client for the provision of the Services, and which shall incorporate these terms and conditions, the Order, and the relevant User Guide.

**"Third Party Data Provider"** means any third party providing Third Party Content to GroundSure.

**"Data Reports"** means reports comprising factual data with no accompanying interpretation.

**"Fees"** has the meaning set out in clause 5.1.

**"GroundSure"** means GroundSure Limited, a company registered in England and Wales under number 03421028.

**"GroundSure Materials"** means all materials prepared by GroundSure and provided as part of the Services, including but not limited to Third Party Content, Data Reports, Mapping, and Risk Screening Reports.

**"Intellectual Property"** means any patent, copyright, design rights, trade or service mark, moral rights, data protection rights, know-how or trade mark in each case whether registered or not and including applications for the same or any other rights of a similar nature anywhere in the world.

**"Mapping"** means a map, map data or a combination of historical maps of various ages, time periods and scales.

**"Order"** means an electronic, written or other order form submitted by the Client requesting Services from GroundSure in respect of a specified Site.

**"Ordnance Survey"** means the Secretary of State for Business, Innovation and Skills, acting through Ordnance Survey, Adanac Drive, Southampton, SO16 0AS, UK.

**"Order Website"** means the online platform through which Orders may be placed by the Client and accepted by GroundSure.

**"Report"** means a Risk Screening Report or Data Report for Commercial or Residential property.

**"Residential"** means any building or property used as or intended to be used as a single dwelling.

**"Risk Screening Report"** means a risk screening report comprising factual data with an accompanying interpretation by GroundSure.

**"Services"** means any Report, Mapping and/or Support Services which GroundSure has agreed to provide by accepting an Order pursuant to clause 2.6.

**"Site"** means the area of land in respect of which the Client has requested GroundSure to provide the Services.

**"Third Party Content"** means data, database information or other information which is provided to GroundSure by a Third Party Data Provider.

"User Guide" means the user guide, as amended from time to time, available upon request from GroundSure and on the website ([www.GroundSure.com](http://www.GroundSure.com)) and forming part of this Contract.

### 2 Scope of Services, terms and conditions, requests for insurance and quotations

2.1 GroundSure agrees to provide the Services in accordance with the Contract.

2.2 GroundSure shall exercise reasonable skill and care in the provision of the Services.

2.3 Subject to clause 7.3 the Client acknowledges that it has not relied on any statement or representation made by or on behalf of GroundSure which is not set out and expressly agreed in writing in the Contract and all such statements and representations are hereby excluded to the fullest extent permitted by law.

2.4 The Client acknowledges that terms and conditions appearing on a Client's order form, printed stationery or other communication, or any terms or conditions implied by custom, practice or course of dealing shall be of no effect, and that this Contract shall prevail over all others in relation to the Order.

2.5 If the Client or Beneficiary requests insurance in conjunction with or as a result of the Services, GroundSure shall use reasonable endeavours to recommend such insurance, but makes no warranty that such insurance shall be available from insurers or that it will be offered on reasonable terms. Any insurance purchased by the Client or Beneficiary shall be subject solely to the terms of the policy issued by insurers and GroundSure will have no liability therefor. In addition you acknowledge and agree that GroundSure does not act as an agent or broker for any insurance providers. The Client should take (and ensure that the Beneficiary takes) independent advice to ensure that the insurance policy requested or offered is suitable for its requirements.

2.6 GroundSure's quotations or proposals are valid for a period of 30 days only unless an alternative period of time is explicitly stipulated by GroundSure. GroundSure reserves the right to withdraw any quotation or proposal at any time before an Order is accepted by GroundSure. GroundSure's acceptance of an Order

shall be binding only when made in writing and signed by GroundSure's authorised representative or when accepted through the Order Website.

### 3 The Client's obligations

3.1 The Client shall comply with the terms of this Contract and

(i) procure that the Beneficiary or any third party relying on the Services complies with and acts as if it is bound by the Contract and

(ii) be liable to GroundSure for the acts and omissions of the Beneficiary or any third party relying on the Services as if such acts and omissions were those of the Client.

3.2 The Client shall be solely responsible for ensuring that the Services are appropriate and suitable for its and/or the Beneficiary's needs.

3.3 The Client shall supply to GroundSure as soon as practicable and without charge all requisite information (and the Client warrants that such information is accurate, complete and appropriate), including without limitation any environmental information relating to the Site and shall give such assistance as GroundSure shall reasonably require in the provision of the Services including, without limitation, access to the Site, facilities and equipment.

3.4 Where the Client's approval or decision is required to enable GroundSure to carry out work in order to provide the Services, such approval or decision shall be given or procured in reasonable time and so as not to delay or disrupt the performance of the Services.

3.5 Save as expressly permitted by this Contract the Client shall not, and shall procure that the Beneficiary shall not, re-sell, alter, add to, or amend the GroundSure Materials, or use the GroundSure Materials in a manner for which they were not intended. The Client may make the GroundSure Materials available to a third party who is considering acquiring some or all of, or providing funding in relation to, the Site, but such third party cannot rely on the same unless expressly permitted under clause 4.

3.6 The Client is responsible for maintaining the confidentiality of its user name and password if using the Order Website and the Client acknowledges that GroundSure accepts no liability of any kind for any loss or damage suffered by the Client as a consequence of using the Order Website.

### 4 Reliance

4.1 The Client acknowledges that the Services provided by GroundSure consist of the presentation and analysis of Third Party Content and other content and that information obtained from a Third Party Data Provider cannot be guaranteed or warranted by GroundSure to be reliable.

4.2 In respect of Data Reports, Mapping and Risk Screening Reports, the following classes of person and no other are entitled to rely on their contents;

- (i) the Beneficiary,
- (ii) the Beneficiary's professional advisers, (iii) any person providing funding to the Beneficiary in relation to the Site (whether directly or as part of a lending syndicate),
- (iv) the first purchaser or first tenant of the Site, and
- (v) the professional advisers and lenders of the first purchaser or tenant of the Site.

4.3 In respect of Support Services, only the Client, Beneficiary and parties expressly named in a Report and no other parties are entitled to rely on its contents.

4.4 Save as set out in clauses 4.2 and 4.3 and unless otherwise expressly agreed in writing, no other person or entity of any kind is entitled to rely on any Services or Report issued or provided by GroundSure. Any party considering such Reports and Services does so at their own risk.

### 5 Fees and Disbursements

5.1 GroundSure shall charge and the Client shall pay fees at the rate and frequency specified in the written proposal, Order Website or Order acknowledgement form, plus (in the case of Support Services) all proper disbursements incurred by GroundSure. The Client shall in addition pay all value added tax or other tax payable on such fees and disbursements in relation to the provision of the Services (together "Fees").

5.2 The Client shall pay all outstanding Fees to GroundSure in full without deduction, counterclaim or set off within 30 days of the date of GroundSure's invoice or such other period as may be agreed in writing between GroundSure and the Client ("Payment Date"). Interest on late payments will accrue on a daily basis from the Payment Date until the date of payment (whether before or after judgment) at the rate of 8% per annum.

5.3 The Client shall be deemed to have agreed the amount of any invoice unless an objection is made in writing within 28 days of the date of the invoice. As soon as reasonably practicable after being notified of an objection, without prejudice to clause 5.2 a member of GroundSure's management team will contact the Client and the parties shall then use all reasonable endeavours to resolve the dispute within 15 days.

### 6 Intellectual Property and Confidentiality

6.1 Subject to

- (i) full payment of all relevant Fees and
- (ii) compliance with this Contract, the Client is granted (and is permitted to sub-licence to the Beneficiary) a royalty-free, worldwide, non-assignable and (save to the extent set out in this Contract) non-transferable licence to make use of the GroundSure Materials.

6.2 All Intellectual Property in the GroundSure Materials are and shall remain owned by GroundSure or GroundSure's licensors (including without limitation the Third Party Data Providers) the Client acknowledges, and shall procure acknowledgement by the Beneficiary of, such ownership. Nothing in this Contract purports to transfer or assign any rights to the Client or the Beneficiary in respect of such Intellectual Property.

6.3 Third Party Data Providers may enforce any breach of clauses 6.1 and 6.2 against the Client or Beneficiary.

6.4 The Client shall, and shall procure that any recipients of the GroundSure Materials shall:

- (i) not remove, suppress or modify any trade mark, copyright or other proprietary marking belonging to GroundSure or any third party from the Services;
  - (ii) use the information obtained as part of the Services in respect of the subject Site only, and shall not store or reuse any information obtained as part of the Services provided in respect of adjacent or nearby sites;
  - (iii) not create any product or report which is derived directly or indirectly from the Services (save that those acting in a professional capacity to the Beneficiary may provide advice based upon the Services);
  - (iv) not combine the Services with or incorporate such Services into any other information data or service;
  - (v) not reformat or otherwise change (whether by modification, addition or enhancement), the Services (save that those acting for the Beneficiary in a professional capacity shall not be in breach of this clause 6.4(v) where such reformatting is in the normal course of providing advice based upon the Services);
  - (vi) where a Report and/or Mapping contains material belonging to Ordnance Survey, acknowledge and agree that such content is protected by Crown Copyright and shall not use such content for any purpose outside of receiving the Services; and
  - (vii) not copy in whole or in part by any means any map prints or run-on copies containing content belonging to Ordnance Survey (other than that contained within Ordnance Survey's OS Street Map) without first being in possession of a valid Paper Map Copying Licence from Ordnance Survey,
- 6.5 Notwithstanding clause 6.4, the Client may make reasonable use of the GroundSure Materials in order to advise the Beneficiary in a professional capacity. However, GroundSure shall have no liability in respect of any advice, opinion or report given or provided to Beneficiaries by the Client.

6.6 The Client shall procure that any person to whom the Services are made available shall notify GroundSure of any request or requirement to disclose, publish or disseminate any information contained in the Services in accordance with the Freedom of Information Act 2000, the Environmental Information Regulations 2004 or any associated legislation or regulations in force from time to time.

#### **7.Liability: Particular Attention Should Be Paid To This Clause**

7.1 This Clause 7 sets out the entire liability of GroundSure, including any liability for the acts or omissions of its employees, agents, consultants, subcontractors and Third Party Content, in respect of:

- (i) any breach of contract, including any deliberate breach of the Contract by GroundSure or its employees, agents or subcontractors;
- (ii) any use made of the Reports, Services, Materials or any part of them; and
- (iii) any representation, statement or tortious act or omission (including negligence) arising under or in connection with the Contract.

7.2 All warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

7.3 Nothing in the Contract limits or excludes the liability of the Supplier for death or personal injury resulting from negligence, or for any damage or liability incurred by the Client or Beneficiary as a result of fraud or fraudulent misrepresentation.

7.4 GroundSure shall not be liable for

- (i) loss of profits;
- (ii) loss of business;
- (iii) depletion of goodwill and/or similar losses;
- (iv) loss of anticipated savings;
- (v) loss of goods;
- (vi) loss of contract;
- (vii) loss of use;
- (viii) loss or corruption of data or information;
- (ix) business interruption;
- (x) any kind of special, indirect, consequential or pure economic loss, costs, damages, charges or expenses;
- (xi) loss or damage that arise as a result of the use of all or part of the GroundSure Materials in breach of the Contract;
- (xii) loss or damage arising as a result of any error, omission or inaccuracy in any part of the GroundSure Materials where such error, omission or inaccuracy is caused by any Third Party Content or any reasonable interpretation of Third Party Content;
- (xiii) loss or damage to a computer, software, modem, telephone or other property; and
- (xiv) loss or damage caused by a delay or loss of use of GroundSure's internet ordering service.

7.5 GroundSure's total liability in relation to or under the Contract shall be limited to £10 million for any claim or claims.

7.6 GroundSure shall procure that the Beneficiary shall be bound by limitations and exclusions of liability in favour of GroundSure which accord with those detailed in clauses 7.4 and 7.5 (subject to clause 7.3) in respect of all claims which the Beneficiary may bring against GroundSure in relation to the Services or other matters arising pursuant to the Contract.

#### **8 GroundSure's right to suspend or terminate**

8.1 If GroundSure reasonably believes that the Client or Beneficiary has not provided the information or assistance required to enable the proper provision of the Services, GroundSure shall be entitled to suspend all further performance of the Services until such time as any such deficiency has been made good.

8.2 GroundSure shall be entitled to terminate the Contract immediately on written notice in the event that:

- (i) the Client fails to pay any sum due to GroundSure within 30

days of the Payment Date; or

- (ii) the Client (being an individual) has a bankruptcy order made against him or (being a company) shall enter into liquidation whether compulsory or voluntary or have an administration order made against it or if a receiver shall be appointed over the whole or any part of its property assets or undertaking or if the Client is struck off the Register of Companies or dissolved; or
- (iii) the Client being a company is unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986 or being an individual appears unable to pay his debts within the meaning of Section 268 of the Insolvency Act 1986 or if the Client shall enter into a composition or arrangement with the Client's creditors or shall suffer distress or execution to be levied on his goods; or
- (iv) the Client or the Beneficiary breaches any term of the Contract (including, but not limited to, the obligations in clause 4) which is incapable of remedy or if remediable, is not remedied within five days of notice of the breach.

#### **9. Client's Right to Terminate and Suspend**

9.1 Subject to clause 10.1, the Client may at any time upon written notice terminate or suspend the provision of all or any of the Services.

9.2 In any event, where the Client is a consumer (and not a business) he/she hereby expressly acknowledges and agrees that:

- (i) the supply of Services under this Contract (and therefore the performance of this Contract) commences immediately upon GroundSure's acceptance of the Order; and
- (ii) the Reports and/or Mapping provided under this Contract are
  - (a) supplied to the Client's specification(s) and in any event
  - (b) by their nature cannot be returned.

#### **10 Consequences of Withdrawal, Termination or Suspension**

10.1 Upon termination of the Contract:

- (i) GroundSure shall take steps to bring to an end the Services in an orderly manner, vacate any Site with all reasonable speed and shall deliver to the Client and/or Beneficiary any property of the Client and/or Beneficiary in GroundSure's possession or control; and
- (ii) the Client shall pay to GroundSure all and any Fees payable in respect of the performance of the Services up to the date of termination or suspension. In respect of any Support Services provided, the Client shall also pay GroundSure any additional costs incurred in relation to the termination or suspension of the Contract.

#### **11 Anti-Bribery**

11.1 The Client warrants that it shall:

- (i) comply with all applicable laws, statutes and regulations relating to anti-bribery and anti-corruption including but not limited to the Bribery Act 2010;
- (ii) comply with such of GroundSure's anti-bribery and anti-corruption policies as are notified to the Client from time to time; and
- (iii) promptly report to GroundSure any request or demand for any undue financial or other advantage of any kind received by or on behalf of the Client in connection with the performance of this Contract.

11.2 Breach of this Clause 11 shall be deemed a material breach of this Contract.

#### **12 General**

12.1 The Mapping contained in the Services is protected by Crown copyright and must not be used for any purpose other than as part of the Services or as specifically provided in the Contract.

12.2 The Client shall be permitted to make one copy only of each Report or Mapping Order. Thereafter the Client shall be entitled to make unlimited copies of the Report or Mapping Order only in accordance with an Ordnance Survey paper map copy license available through GroundSure.

12.3 GroundSure reserves the right to amend or vary this Contract. No amendment or variation to this Contract shall be valid unless signed by an authorised representative of GroundSure.

12.4 No failure on the part of GroundSure to exercise, and no delay in exercising, any right, power or provision under this Contract shall operate as a waiver thereof.

12.5 Save as expressly provided in this Contract, no person other than the persons set out therein shall have any right under the Contract (Rights of Third Parties) Act 1999 to enforce any terms of the Contract.

12.6 The Secretary of State for Business, Innovation and Skills ("BIS") or BIS' successor body, as the case may be, acting through Ordnance Survey may enforce a breach of clause 6.4(vi) and clause 6.4(vii) of these terms and conditions against the Client in accordance with the provisions of the Contracts (Rights of Third Parties) Act 1999.

12.7 GroundSure shall not be liable to the Client if the provision of the Services is delayed or prevented by one or more of the following circumstances:

- (i) the Client or Beneficiary's failure to provide facilities, access or information;
- (ii) fire, storm, flood, tempest or epidemic;
- (iii) Acts of God or the public enemy;
- (iv) riot, civil commotion or war;
- (v) strikes, labour disputes or industrial action;
- (vi) acts or regulations of any governmental or other agency;
- (vii) suspension or delay of services at public registries by Third Party Data Providers;
- (viii) changes in law; or
- (ix) any other reason beyond GroundSure's reasonable control.

In the event that GroundSure is prevented from performing the Services (or any part thereof) in accordance with this clause 12.6 for a period of not less than 30 days then GroundSure shall be entitled to terminate this Contract immediately on written notice to the Client.

12.8 Any notice provided shall be in writing and shall be deemed to be properly

given if delivered by hand or sent by first class post, facsimile or by email to the address, facsimile number or email address of the relevant party as may have been notified by each party to the other for such purpose or in the absence of such notification the last known address.

12.9 Such notice shall be deemed to have been received on the day of delivery if delivered by hand, facsimile or email (save to the extent such day is not a working day where it shall be deemed to have been delivered on the next working day) and on the second working day after the day of posting if sent by first class post.

12.10 The Contract constitutes the entire agreement between the parties and shall supersede all previous arrangements between the parties relating to the subject matter hereof.

12.11 Each of the provisions of the Contract is severable and distinct from the others and if one or more provisions is or should become invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions shall not in any way be tainted or impaired.

12.12 This Contract shall be governed by and construed in accordance with English law and any proceedings arising out of or connected with this Contract shall be subject to the exclusive jurisdiction of the English courts.

12.13 GroundSure is an executive member of the Council of Property Search Organisation (CoPSO) and has signed up to the Search Code administered by the Property Codes Compliance Board (PCCB). All Risk Screening Reports shall be supplied in accordance with the provisions of the Search Code.

12.14 If the Client or Beneficiary has a complaint about the Services, written notice should be given to the Compliance Officer at GroundSure who will respond in a timely manner.

12.15 The Client agrees that it shall, and shall procure that each Beneficiary shall, treat in confidence all Confidential Information and shall not, and shall procure that each Beneficiary shall not (i) disclose any Confidential Information to any third party other than in accordance with the terms of this Contract; and (ii) use Confidential Information for a purpose other than the exercise of its rights and obligations under this Contract. Subject to clause 6.6, nothing shall prevent the Client or any Beneficiary from disclosing Confidential Information to the extent required by law



## ENVIRONMENTAL INFORMATION





Ruddlesden Geotechnical

65, Langaton Lane,  
Exeter, EX1 3SP

GroundSure Reference: HMD-411-1324030

Your Reference: 14114

Report Date 4 Mar 2014

Report Delivery Method: Email - pdf

## GroundSure EnviroInsight

Address: SHAFTESBURY ROAD,GILLINGHAM,DORSET, SP8 4LL

Dear Sir/ Madam,

Thank you for placing your order with GroundSure. Please find enclosed the **GroundSure Enviroinsight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above GroundSure reference number.

Yours faithfully,

A handwritten signature in black ink, appearing to be 'D. J. O.' followed by a flourish.

Managing Director  
Groundsure Limited

Enc.  
GroundSure EnviroInsight



# GroundSure EnviroInsight

Address: SHAFTESBURY ROAD, GILLINGHAM, DORSET, SP8 4LL

Date: 4 Mar 2014

Reference: HMD-411-1324030

Client: Ruddlesden Geotechnical

NW

N

NE

W

E



SW

S

SE

Aerial Photograph Capture date: 08-Oct-2009

Grid Reference: 381745,125252

Site Size: 62.50ha

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# Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Environmental Permits, Incidents and Registers		On-site	0-50m	51-250	251-500		
1.1 Industrial Sites Holding Environmental Permits and/or Authorisations							
1.1.1	Records of historic IPC Authorisations	0	0	0	8		
1.1.2	Records of Part A(1) and IPPC Authorised Activities	0	0	0	6		
1.1.3	Records of Water Industry Referrals (potentially harmful discharges to the public sewer)	0	0	0	0		
1.1.4	Records of Red List Discharge Consents (potentially harmful discharges to controlled waters)	0	0	0	0		
1.1.5	Records of List 1 Dangerous Substances Inventory sites	0	0	0	0		
1.1.6	Records of List 2 Dangerous Substances Inventory sites	0	0	0	0		
1.1.7	Records of Part A(2) and Part B Activities and Enforcements	0	0	1	2		
1.1.8	Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0		
1.1.9	Records of Licensed Discharge Consents	0	5	2	23		
1.1.10	Records of Planning Hazardous Substance Consents and Enforcements	0	0	0	1		
1.2	Records of COMAH and NIHHS sites	0	0	0	0		
1.3 Environment Agency Recorded Pollution Incidents							
1.3.1	National Incidents Recording System, List 2	1	1	0	10		
1.3.2	National Incidents Recording System, List 1	0	0	0	0		
1.4	Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0		
Section 2: Landfill and Other Waste Sites		On-site	0-50m	51-250	251-500	501-1000	1000-5000
2.1 Landfill Sites							
2.1.1	Environment Agency Registered Landfill Sites	0	0	0	0	0	Not searched
2.1.2	Environment Agency Historic Landfill Sites	0	0	0	0	0	0
2.1.3	BGS/DoE Landfill Site Survey	0	0	0	0	0	0
2.1.4	GroundSure Local Authority Landfill Sites Data	0	0	0	0	0	0
2.2 Landfill and Other Waste Sites Findings							
2.2.1	Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	1	2	Not searched	Not searched
2.2.2	Environment Agency Licensed Waste Sites	0	0	1	0	0	0



Section 3: Current Land Use	On-site	0-50m	51-250	251-500
3.1 Current Industrial Sites Data	0	3	28	Not searched
3.2 Records of Petrol and Fuel Sites	0	0	0	1
3.3 Underground High Pressure Oil and Gas Pipelines	0	0	0	0

Section 4: Geology	
4.1 Are there any records of Artificial Ground and Made Ground present beneath the study site?	No
4.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?	Yes
4.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 5: Hydrogeology and Hydrology	0-500m					
5.1 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site?	Yes					
5.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?	Yes					
	On-site	0-50m	51-250	251-500	501-1000	1000-2000
5.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
5.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
5.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
5.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searched
	On-site	0-50m	51-250	251-500	501-1000	1000-1500
5.7 Is there any Environment Agency information on river quality within 1500m of the study site?	No	No	No	No	Yes	Yes
5.8 Detailed River Network entries within 500m of the site	9	8	4	8	Not searched	Not searched
5.9 Surface water features within 250m of the study site	Yes	Yes	Yes	Not searched	Not searched	Not searched

Section 6: Flooding	
6.1 Are there any Environment Agency Zone 2 floodplains within 250m of the study site?	Yes
6.2 Are there any Environment Agency Zone 3 floodplains within 250m of the study site?	Yes
6.3 Are there any Flood Defences within 250m of the study site?	No
6.4 Are there any areas benefiting from Flood Defences within 250m of the study site?	No
6.5 Are there any areas used for Flood Storage within 250m of the study site?	No
6.6 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Very High
6.7 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	High

## Section 7: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
7.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
7.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
7.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
7.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
7.5 Records of Ramsar sites	0	0	0	0	0	0
7.6 Records of Ancient Woodlands	0	0	0	0	1	1
7.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	0
7.8 Records of World Heritage Sites	0	0	0	0	0	0
7.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0
7.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
7.11 Records of National Parks	0	0	0	0	0	0
7.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
7.13 Records of Nitrate Vulnerable Zones	0	0	0	0	0	0

## Section 8: Natural Hazards

8.1 What is the maximum risk of natural ground subsidence?

Moderate

## Section 9: Mining

9.1 Are there any coal mining areas within 75m of the study site?

No

9.2 What is the risk of subsidence relating to shallow mining within 150m of the study site?

Negligible

9.3 Are there any brine affected areas within 75m of the study site?

No

# Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between GroundSure and the Client. The document contains the following sections:

## 1. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

## 2. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

## 3. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure underground oil and gas pipelines.

## 4. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

## 5. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licenses, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

## 6. Flooding

Provides information on surface water flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

## 7. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

## 8. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence.

## 9. Mining

Provides information on areas of coal and shallow mining.

## 10. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, GroundSure provide a free Technical Helpline (08444 159000) for further information and guidance.

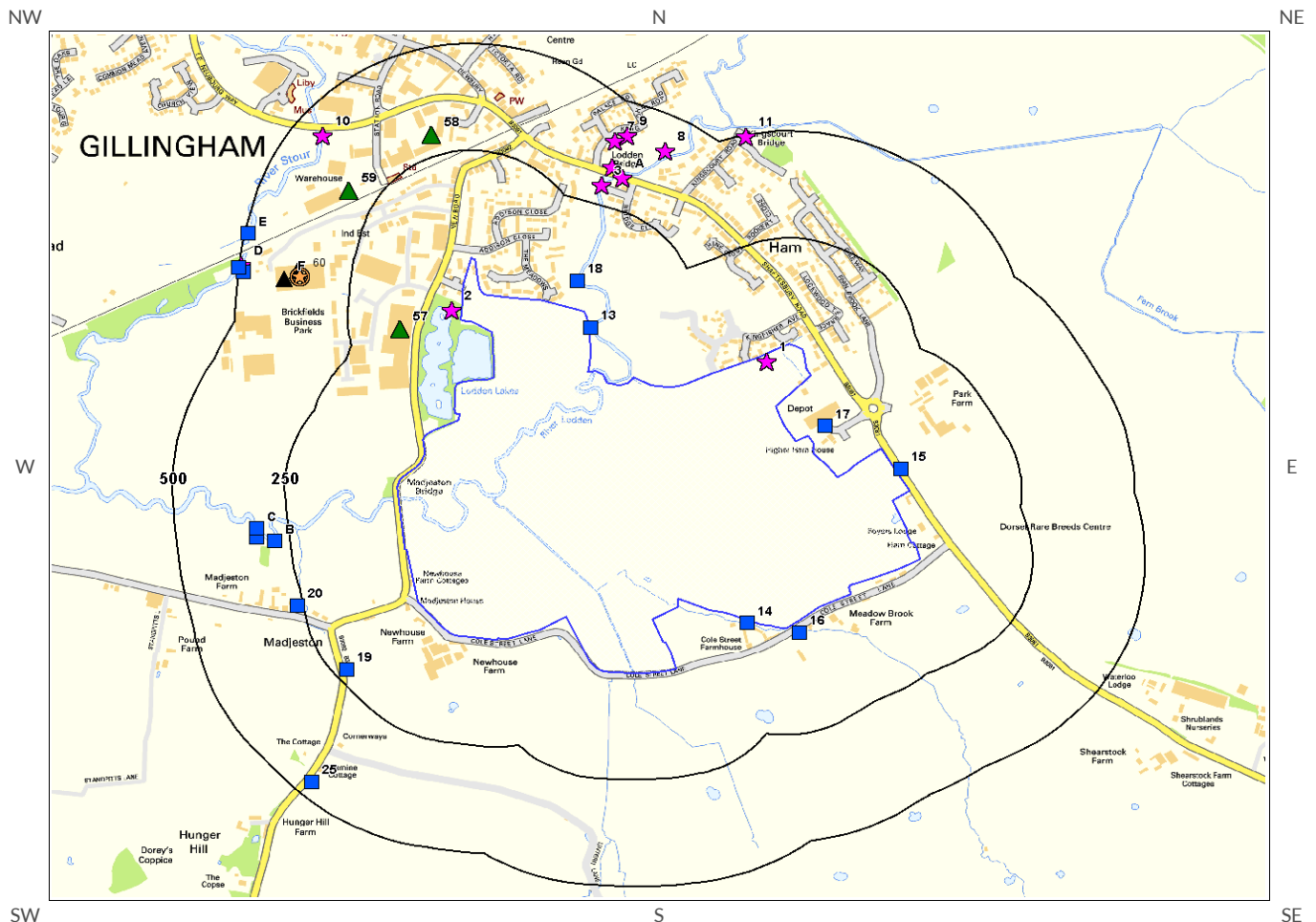
### Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.












# 1. Environmental Permits, Incidents and Registers Map



Environmental Permits,  
Incidents and Registers Legend

Mapping  
sourced from  


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Ordnance Survey license 100035207.

- |  |   |  |
|--|---|--|
|  Site Outline       |  Recorded Pollution Incident   |  RAS 3 & 4 Authorisations                                       |
|  Search Buffers (m) |  Dangerous Substances (List 1) |  Part A(1) Authorised Processes and Historic IPC Authorisations |
|  |  Dangerous Substances (List 2) |  Part A(2) and Part B Authorised Processes                      |
|  |  Water Industry Referrals      |  COMAH / NIHHS Sites  |
|  |  Licenced Discharge Consents   |  Sites Determined as Contaminated Land                          |
|  |  Red List Discharge Consents   |  Hazardous Substance Consents and Enforcements                  |



# 1. Environmental Permits, Incidents and Registers

## 1.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency and Local Authorities reveal the following information:

### 1.1.1 Records of historic IPC Authorisations within 500m of the study site:

8

The following IPC Authorisations are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance	Direction	NGR	Details
67F	398.0	W	380740 125870	Operator: Sigma-aldrich Co Ltd Address: The Old Brickyard, New Road, Gillingham, Dorset, SP8 4JL Process: Manufacture And Use Of Organic Chemicals Permit Number: BE0309 Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
68F	398.0	W	380740 125870	Operator: Sigma-aldrich Co Ltd Address: The Old Brickyard, New Road, Gillingham, Dorset, SP8 4JL Process: Manufacture And Use Of Organic Chemicals Permit Number: AZ2201 Original Permit Number: IPCMAJVAR Date Approved: 10-11-1997 Effective Date: 17-11-1997 Status: Superseded By Variation
69F	398.0	W	380740 125870	Operator: Sigma-aldrich Co Ltd Address: The Old Brickyard, New Road, Gillingham, Dorset, SP8 4JL Process: Manufacture And Use Of Organic Chemicals Permit Number: AX8942 Original Permit Number: IPCAPP Date Approved: 10-6-1997 Effective Date: 17-6-1997 Status: Superseded By Variation
70F	398.0	W	380740 125870	Operator: Sigma-aldrich Co Ltd Address: The Old Brickyard, New Road, Gillingham, Dorset, SP8 4JL Process: Manufacture And Use Of Organic Chemicals Permit Number: BG4496 Original Permit Number: IPCMAJVAR Date Approved: 14-12-1999 Effective Date: 1-1-2000 Status: Superseded By Variation
71F	398.0	W	380740 125870	Operator: Sigma-aldrich Co Ltd Address: The Old Brickyard, New Road, Gillingham, Dorset, SP8 4JL Process: Manufacture And Use Of Organic Chemicals Permit Number: BJ1427 Original Permit Number: IPCMINVAR Date Approved: 18-10-2000 Effective Date: 18-10-2000 Status: Superseded By Variation
72F	398.0	W	380740 125870	Operator: Sigma-aldrich Co Ltd Address: The Old Brickyard, New Road, Gillingham, Dorset, SP8 4JL Process: Manufacture And Use Of Organic Chemicals Permit Number: BK8176 Original Permit Number: IPCMINVAR Date Approved: 13-8-2001 Effective Date: 1-9-2001 Status: Superseded By Variation
73F	398.0	W	380740 125870	Operator: Sigma-aldrich Co Ltd Address: The Old Brickyard, New Road, Gillingham, Dorset, SP8 4JL Process: Manufacture And Use Of Organic Chemicals Permit Number: BU9793 Original Permit Number: IPCMINVAR Date Approved: 20-8-2003 Effective Date: 21-8-2003 Status: Superseded By Variation
74F	398.0	W	380740 125870	Operator: Sigma-aldrich Co Ltd Address: The Old Brickyard, New Road, Gillingham, Dorset, SP8 4JL Process: Manufacture And Use Of Organic Chemicals Permit Number: BX3678 Original Permit Number: IPCMAJVAR Date Approved: 13-6-2004 Effective Date: 14-6-2004 Status: Revoked - Now Ippc

### 1.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

6

The following Part A(1) and IPPC Authorised Activities are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance	Direction	NGR		Details
61F	369.0	W	380770 125890	Operator: Sigma Aldrich Company Ltd Installation Name: Gillingham Fine Chemicals Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD	Permit Number: PP3334GR Original Permit Number: KP3039LQ EPR Reference: - Issue Date: 23/1/2009 00:00:00 Effective Date: 23/1/2009 00:00:00 Last date noted as effective: 2014-01-01 Status: Effective
62F	369.0	W	380770 125890	Operator: Sigma Aldrich Company Ltd Installation Name: Gillingham Fine Chemicals Process: ASSOCIATED PROCESS	Permit Number: PP3334GR Original Permit Number: KP3039LQ EPR Reference: - Issue Date: 23/1/2009 00:00:00 Effective Date: 23/1/2009 00:00:00 Last date noted as effective: 2014-01-01 Status: Effective
63F	369.0	W	380770 125890	Operator: Sigma Aldrich Company Ltd Installation Name: Gillingham Fine Chemicals Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD	Permit Number: KP3039LQ Original Permit Number: KP3039LQ EPR Reference: - Issue Date: 4/12/2006 00:00:00 Effective Date: 4/12/2006 00:00:00 Last date noted as effective: 2014-01-01 Status: Superceded
64F	369.0	W	380770 125890	Operator: Sigma Aldrich Company Ltd Installation Name: Gillingham Fine Chemicals Process: PHARMACEUTICALS; PRODUCING PHARMACEUTICALS USING CHEMICAL/BIOLOGICAL PROCESSES	Permit Number: PP3334GR Original Permit Number: KP3039LQ EPR Reference: - Issue Date: 23/1/2009 00:00:00 Effective Date: 23/1/2009 00:00:00 Last date noted as effective: 2014-01-01 Status: Effective
65F	369.0	W	380770 125890	Operator: Sigma Aldrich Company Ltd Installation Name: Gillingham Fine Chemicals Process: ASSOCIATED PROCESS	Permit Number: KP3039LQ Original Permit Number: KP3039LQ EPR Reference: - Issue Date: 4/12/2006 00:00:00 Effective Date: 4/12/2006 00:00:00 Last date noted as effective: 2014-01-01 Status: Superceded
66F	369.0	W	380770 125890	Operator: Sigma Aldrich Company Ltd Installation Name: Gillingham Fine Chemicals Process: PHARMACEUTICALS; PRODUCING PHARMACEUTICALS USING CHEMICAL/BIOLOGICAL PROCESSES	Permit Number: KP3039LQ Original Permit Number: KP3039LQ EPR Reference: - Issue Date: 4/12/2006 00:00:00 Effective Date: 4/12/2006 00:00:00 Last date noted as effective: 2014-01-01 Status: Superceded

### 1.1.3 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.



1.1.4 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

1.1.5 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

1.1.6 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

1.1.7 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

3

The following Part A(2) and Part B Activities are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance	Direction	NGR	Details
57	139.0	W	380997 125752	Address: Dextra Lighting, Brickfields Business Park, Gillingham, Dorset, SP8 4PX Process: Power Coating Status: Current Permit Permit Type: Part B Enforcement: No Enforcements Notified Date of Enforcement: No Enforcements Notified Comment: No Enforcements Notified
58	296.0	N	381067 126207	Address: Po Baker & Sons, Station Road Garage, Gillingham, Dorset, SP8 4QA Process: Waste Oil Burning Process Status: Historical Permit Permit Type: Part B Enforcement: No Enforcements Notified Date of Enforcement: No Enforcements Notified Comment: No Enforcements Notified
59	312.0	NW	380884 126077	Address: Gillingham Rovers, Station Road, Gillingham, Dorset, SP8 4PY Process: Waste Oil Burning Process Status: Historical Permit Permit Type: Part B Enforcement: No Enforcements Notified Date of Enforcement: No Enforcements Notified Comment: No Enforcements Notified

1.1.8 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

### 1.1.9 Records of Licensed Discharge Consents within 500m of the study site:

30

The following Licensed Discharge Consents records are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance	Direction	NGR	Details	
13	4.0	E	381420 125760	Address: Meadow Croft, New Road, Gillingham, Dorset Effluent Type: Miscellaneous Discharges - Surface Water Permit Number: 040885 Permit Version: 1	Receiving Water: River Lodden Status: Lapsed Under Schedule 23 Environment Act 1995 Issue date: - Effective Date: 1/1/1989 Revocation Date: 1/10/1996
14	6.0	S	381768 125068	Address: Cole Street Farm, Cole Street Lane, Gillingham, Dorset, SP8 5JQ Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: NPSWQD003347 Permit Version: 1	Receiving Water: River Lodden Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 6/10/2008 Effective Date: 6/10/2008 Revocation Date: -
15	12.0	NE	382110 125430	Address: Garden Centre, Park Farm, Shaftesbury Road, Gillingham, Dorset, SP8 5JG Effluent Type: Sewage & Trade Combined - Unspecified Permit Number: 401737 Permit Version: 1	Receiving Water: Un-named Ditch Via Reed Bed Status: New Consent, By Application (wra 91, Section 88) Issue date: 26/8/2004 Effective Date: 26/8/2004 Revocation Date: -
16	25.0	SE	381884 125046	Address: Rose Cottage & Field View, Colestreet Lane, Gillingham, Dorset, SP8 5JQ Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 402300 Permit Version: 1	Receiving Water: Tributary Of River Lodden Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 21/5/2007 Effective Date: 21/5/2007 Revocation Date: -
17	43.0	NE	381940 125530	Address: Hudson And Martin Limited, Shaftesbury Road, Gillingham, Dorset, SP8 5JG Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 400667 Permit Version: 1	Receiving Water: Trib.r.lodden-partial Soakaway Status: New Consent, By Application (wra 91, Section 88) Issue date: 24/2/1999 Effective Date: 28/1/1999 Revocation Date: -
18	65.0	N	381390 125870	Address: New Road, Residential Development, (proposed), Gillingham, Dorset Effluent Type: Miscellaneous Discharges - Surface Water Permit Number: 040332 Permit Version: 1	Receiving Water: River Lodden Status: Lapsed Under Schedule 23 Environment Act 1995 Issue date: - Effective Date: 1/10/1986 Revocation Date: 1/10/1996
19	223.0	SW	380880 124960	Address: New Farm House, Newhouse Farm, Cole Street Lane, Madjeston, Gillingham, Dorset, SP8 5JQ Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 400857 Permit Version: 1	Receiving Water: Trib/r.lodden/partial Soakaway Status: New Consent, By Application (wra 91, Section 88) Issue date: 28/2/2000 Effective Date: 25/1/2000 Revocation Date: -
20	263.0	W	380770 125110	Address: Barn 1, Adj To Madjeston Old Farm, Madjeston, Gillingham, Dorset Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 041317 Permit Version: 1	Receiving Water: Discharge To Soakaway Status: New Consent, By Application (wra 91, Section 113 & Sched 12) Issue date: - Effective Date: 1/11/1989 Revocation Date: -
21 B	285.0	W	380720 125260	Address: The Old Barn, Madjeston, Gillingham, Dorset, SP8 5JH Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 400361/PW/01 Permit Version: 1	Receiving Water: River Lodden Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 30/5/1997 Effective Date: 30/5/1997 Revocation Date: -

ID	Distance	Direction	NGR	Details	
22 B	285.0	W	380720 125260	Address: The Old Barn, Madjeston, Gillingham, Dorset, SP8 5JH Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 041653 Permit Version: 1	Receiving Water: River Lodden Status: Lapsed Under Schedule 23 Environment Act 1995 Issue date: - Effective Date: - Revocation Date: 1/10/1996
23 C	321.0	W	380680 125290	Address: Madjeston Farmhouse, Madjeston, Gillingham, Dorset, SP8 5JT Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 400615 Permit Version: 1	Receiving Water: Rlodden Via Part Soakaway Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: - Effective Date: 4/11/1998 Revocation Date: -
24 C	323.0	W	380680 125270	Address: Pelekas, Madjeston, Gillingham, Dorset, SP8 5JH Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 400764 Permit Version: 1	Receiving Water: River Lodden Status: New Consent, By Application (wra 91, Section 88) Issue date: 23/9/1999 Effective Date: 20/7/1999 Revocation Date: -
25	465.0	SW	380801 124697	Address: Jasmine Cottage, Hunger Hill, Madjeston, Gillingham, Dorset, SP8 5JR Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 402154 Permit Version: 1	Receiving Water: Groundwater Via Soakaway Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 27/9/2006 Effective Date: 27/9/2006 Revocation Date: -
26 D	489.0	W	380650 125890	Address: Brickyard Pumping Station, Brickfields Industrial Estate, New Road, Gillingham, Dorset Effluent Type: Sewage Discharges - Pumping Station - Water Company Permit Number: 042429 Permit Version: 1	Receiving Water: Trib Of Upper Stour (s) Status: Revoked - Unspecified Issue date: - Effective Date: - Revocation Date: -
27 D	489.0	W	380650 125890	Address: Brickyard Pumping Station, Brickfields Industrial Estate, New Road, Gillingham, Dorset Effluent Type: Sewage Discharges - Stw Storm Overflow/storm Tank - Water Company Permit Number: 042429 Permit Version: 1	Receiving Water: Trib Of Upper Stour (s) Status: Revoked - Unspecified Issue date: - Effective Date: - Revocation Date: -
28 E	493.0	W	380660 125980	Address: Gillingham Stw, Common Mead Lane, Gillingham, Dorset, SP8 4JN Effluent Type: Sewage Discharges - Final/treated Effluent - Water Company Permit Number: 401739 Permit Version: 4	Receiving Water: River Stour (upper) (s) Status: Modified - (wra 91 Sched 10 - As Amended By Env Act 1995) Issue date: 31/3/2010 Effective Date: 31/3/2010 Revocation Date: -
29 E	493.0	W	380660 125980	Address: Gillingham Stw, Common Mead Lane, Gillingham, Dorset, SP8 4JN Effluent Type: Sewage Discharges - Stw Storm Overflow/storm Tank - Water Company Permit Number: 401739 Permit Version: 4	Receiving Water: River Stour (upper) (s) Status: Modified - (wra 91 Sched 10 - As Amended By Env Act 1995) Issue date: 31/3/2010 Effective Date: 31/3/2010 Revocation Date: -
30 E	493.0	W	380660 125980	Address: Gillingham Stw, Common Mead Lane, Gillingham, Dorset, SP8 4JN Effluent Type: Sewage Discharges - Final/treated Effluent - Water Company Permit Number: 401739 Permit Version: 5	Receiving Water: River Stour (upper) (s) Status: Varied By Application - (wra 91 Sched 10 - As Amended By Env Act 1995) Issue date: - Effective Date: - Revocation Date: -
31 E	493.0	W	380660 125980	Address: Gillingham Stw, Common Mead Lane, Gillingham, Dorset, SP8 4JN Effluent Type: Sewage Discharges - Final/treated Effluent - Water Company Permit Number: 401739 Permit Version: 2	Receiving Water: River Stour (upper) (s) Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 2/7/2008 Effective Date: 2/7/2008 Revocation Date: 31/3/2009
32 E	493.0	W	380660 125980	Address: Gillingham Stw, Common Mead Lane, Gillingham, Dorset, SP8 4JN Effluent Type: Sewage Discharges - Stw Storm Overflow/storm Tank - Water Company Permit Number: 401739 Permit Version: 2	Receiving Water: River Stour (upper) (s) Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 2/7/2008 Effective Date: 2/7/2008 Revocation Date: 31/3/2009

ID	Distance	Direction	NGR	Details	
33 E	493.0	W	380660 125980	Address: Gillingham Stw, Common Mead Lane, Gillingham, Dorset, SP8 4JN Effluent Type: Sewage Discharges - Final/treated Effluent - Water Company Permit Number: 401739 Permit Version: 3	Receiving Water: River Stour (upper) (s) Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: - Effective Date: 1/4/2009 Revocation Date: 30/3/2010
34 E	493.0	W	380660 125980	Address: Gillingham Stw, Common Mead Lane, Gillingham, Dorset, SP8 4JN Effluent Type: Sewage Discharges - Stw Storm Overflow/storm Tank - Water Company Permit Number: 401739 Permit Version: 5	Receiving Water: River Stour (upper) (s) Status: Varied By Application - (wra 91 Sched 10 - As Amended By Env Act 1995) Issue date: - Effective Date: - Revocation Date: -
35 E	493.0	W	380660 125980	Address: Gillingham Stw, Common Mead Lane, Gillingham, Dorset, SP8 4JN Effluent Type: Sewage Discharges - Final/treated Effluent - Water Company Permit Number: 401739 Permit Version: 1	Receiving Water: River Stour (upper) (s) Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 19/8/2004 Effective Date: - Revocation Date: 1/7/2008
36 E	493.0	W	380660 125980	Address: Gillingham Stw, Common Mead Lane, Gillingham, Dorset, SP8 4JN Effluent Type: Sewage Discharges - Stw Storm Overflow/storm Tank - Water Company Permit Number: 401739 Permit Version: 3	Receiving Water: River Stour (upper) (s) Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: - Effective Date: 1/4/2009 Revocation Date: 30/3/2010
37 E	493.0	W	380660 125980	Address: Gillingham Stw, Common Mead Lane, Gillingham, Dorset, SP8 4JN Effluent Type: Sewage Discharges - Stw Storm Overflow/storm Tank - Water Company Permit Number: 401739 Permit Version: 1	Receiving Water: River Stour (upper) (s) Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 19/8/2004 Effective Date: - Revocation Date: 1/7/2008
38 E	493.0	W	380660 125980	Address: Gillingham Stw, Dorset Effluent Type: Sewage Discharges - Stw Storm Overflow/storm Tank - Water Company Permit Number: 040035 Permit Version: 1	Receiving Water: - Status: Revoked - Unspecified Issue date: - Effective Date: 3/9/1985 Revocation Date: -
39 E	493.0	W	380660 125980	Address: Gillingham Stw, Dorset Effluent Type: Sewage Discharges - Final/treated Effluent - Water Company Permit Number: 040035 Permit Version: 1	Receiving Water: - Status: Revoked - Unspecified Issue date: - Effective Date: 3/9/1985 Revocation Date: -
40 D	500.0	W	380640 125900	Address: Brickyard Pumping Station, Brickfields Industrial Estate, New Road, Gillingham, Dorset Effluent Type: Sewage Discharges - Pumping Station - Water Company Permit Number: 042373 Permit Version: 1	Receiving Water: River Stour Status: Consent Expired - Time Limit Issue date: - Effective Date: - Revocation Date: -
41 D	500.0	W	380640 125900	Address: Brickyard Pumping Station, Brickfields Industrial Estate, New Road, Gillingham, Dorset Effluent Type: Sewage Discharges - Stw Storm Overflow/storm Tank - Water Company Permit Number: 042373 Permit Version: 1	Receiving Water: River Stour Status: Consent Expired - Time Limit Issue date: - Effective Date: - Revocation Date: -
42 D	500.0	W	380640 125900	Address: Brickyard Pumping Station, Brickfields Industrial Estate, New Road, Gillingham, Dorset Effluent Type: Sewage Discharges - Pumping Station - Water Company Permit Number: 401128 Permit Version: 1	Receiving Water: River Stour (s) Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 8/11/2001 Effective Date: - Revocation Date: -

### 1.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

1

The following records are represented as polygons on the Industrial Sites and Processes map:

ID	Distance	Direction	Application Reference Number	NGR	Application Status	Application Date	Address	Details	Details of Enforcement Action
75F	364.0	W	2/1999/0739	380774.0 125878.0	Approved	18/10/1999	Sigma Aldrich, The Old Brickyard, New Road, Gillingham, Dorset, SP8 4FX	Application for deemed consent in accordance with The Planning Act 1990	Enforcement: No Enforcements Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified

## 1.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site:

0

Database searched and no data found.

## 1.3 Environment Agency Recorded Pollution Incidents

1.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

12

The following NIRS List 2 records are represented as points on the Authorisations, Incidents and Registers Map:

ID	Distance	Direction	NGR	Details
1	0.0	On Site	381810 125680	Incident Date: 21/05/2003 Incident Identification: 159744 Pollutant: Sewage Materials Pollutant Description: Grey Water Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
2	24.0	W	381110 125800	Incident Date: 08/07/2003 Incident Identification: 171963 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Algae Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
3	295.0	N	381444 126094	Incident Date: 16/05/2001 Incident Identification: 5689 Pollutant: Agricultural Materials and Wastes Pollutant Description: Carcasses Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4A	324.0	N	381490 126110	Incident Date: 20/05/2003 Incident Identification: 159599 Pollutant: Oils and Fuel Pollutant Description: Diesel Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
5A	324.0	N	381490 126110	Incident Date: 24/07/2002 Incident Identification: 94028 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Distance	Direction	NGR	Details	
6A	341.0	N	381467 126135	Incident Date: 25/10/2002 Incident Identification: 116723 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
7	402.0	N	381474 126197	Incident Date: 06/05/2001 Incident Identification: 4630 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
8	417.0	NE	381584 126174	Incident Date: 08/06/2003 Incident Identification: 164134 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
9	422.0	N	381500 126210	Incident Date: 22/05/2002 Incident Identification: 80346 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
10	437.0	NW	380824 126209	Incident Date: 20/11/2003 Incident Identification: 202586 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
11	496.0	N	381764 126207	Incident Date: 27/01/2003 Incident Identification: 133525 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
12D	497.0	W	380643 125906	Incident Date: 23/06/2002 Incident Identification: 86750 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

### 1.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

Database searched and no data found.

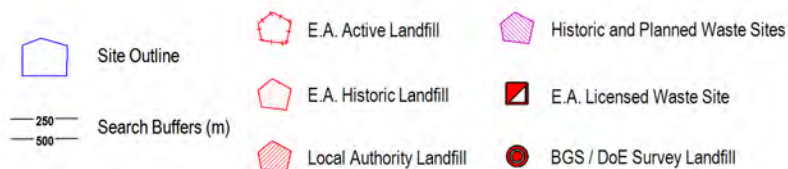
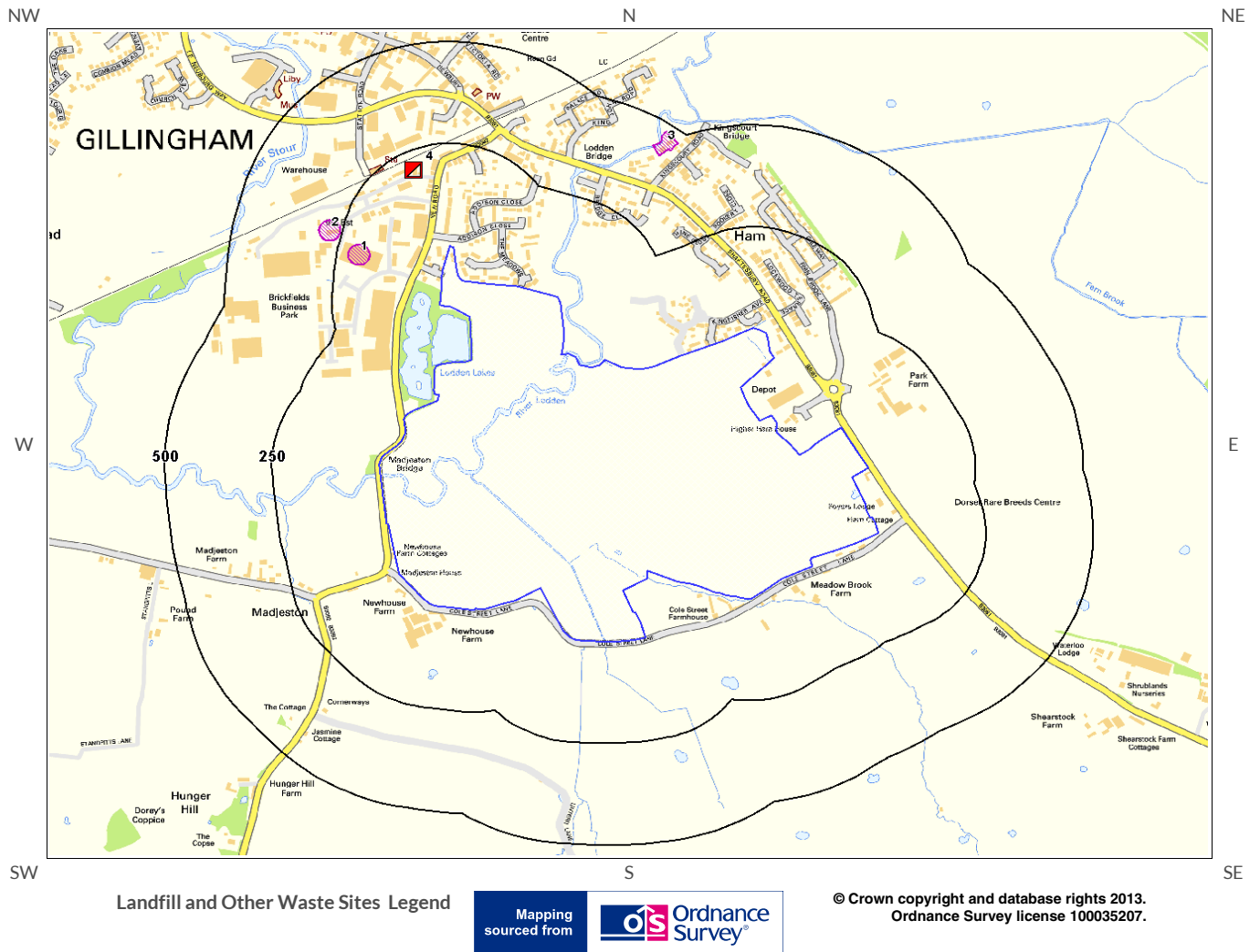
## 1.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site?

0

Database searched and no data found.

# 2. Landfill and Other Waste Sites Map





## 2. Landfill and Other Waste Sites

### 2.1 Landfill Sites

2.1.1 Records from Environment Agency landfill data within 1000m of the study site:

0

Database searched and no data found.

---

2.1.2 Records of Environment Agency historic landfill sites within 1500m of the study site:

0

Database searched and no data found.

---

2.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

0

Database searched and no data found.

---

2.1.4 Records of Local Authority landfill sites within 1500m of the study site:

0

Database searched and no data found.

---

## 2.2 Other Waste Sites

### 2.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

3

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details		
1	173.0	W	380944 125901	Type of Site: Waste Transfer Station Site Address: 8, Brickfield Industrial Estate, GILLINGHAM, Dorset, SP8 4	Planning Application Reference: *2/2005/0964 Date: -	Further Details: Scheme comprises proposed construction of waste transfer station. An application (ref: *2/2005/0964) for Detailed Planning permission was submitted to North Dorset D.C. on 30th September 2005. Data Source: Historic Planning Application Data Type: Point
2	254.0	W	380876 125961	Type of Site: Waste Transfer Station Site Address: Brickfields Industrial Estate, 8,Brickyard Lane, GILLINGHAM, Dorset, SP8 4JL	Planning Application Reference: 2/2010/0614/PLNG Date: 28/11/2010	Further Details: Scheme comprises change of use of general industrial building to reception building for waste sorting, expansion of waste transfer station and establishment of skip business. An application (ref: 2/2010/0614/PLNG) for detailed planning permission was granted by North Dorset D.C. A detailed planning application has been granted. Data Source: Historic Planning Application Data Type: Point
3	422.0	NE	381657 126175	Type of Site: Scrap Yard Site Address: N/A	Planning Application Reference: N/A Date: 1981	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon

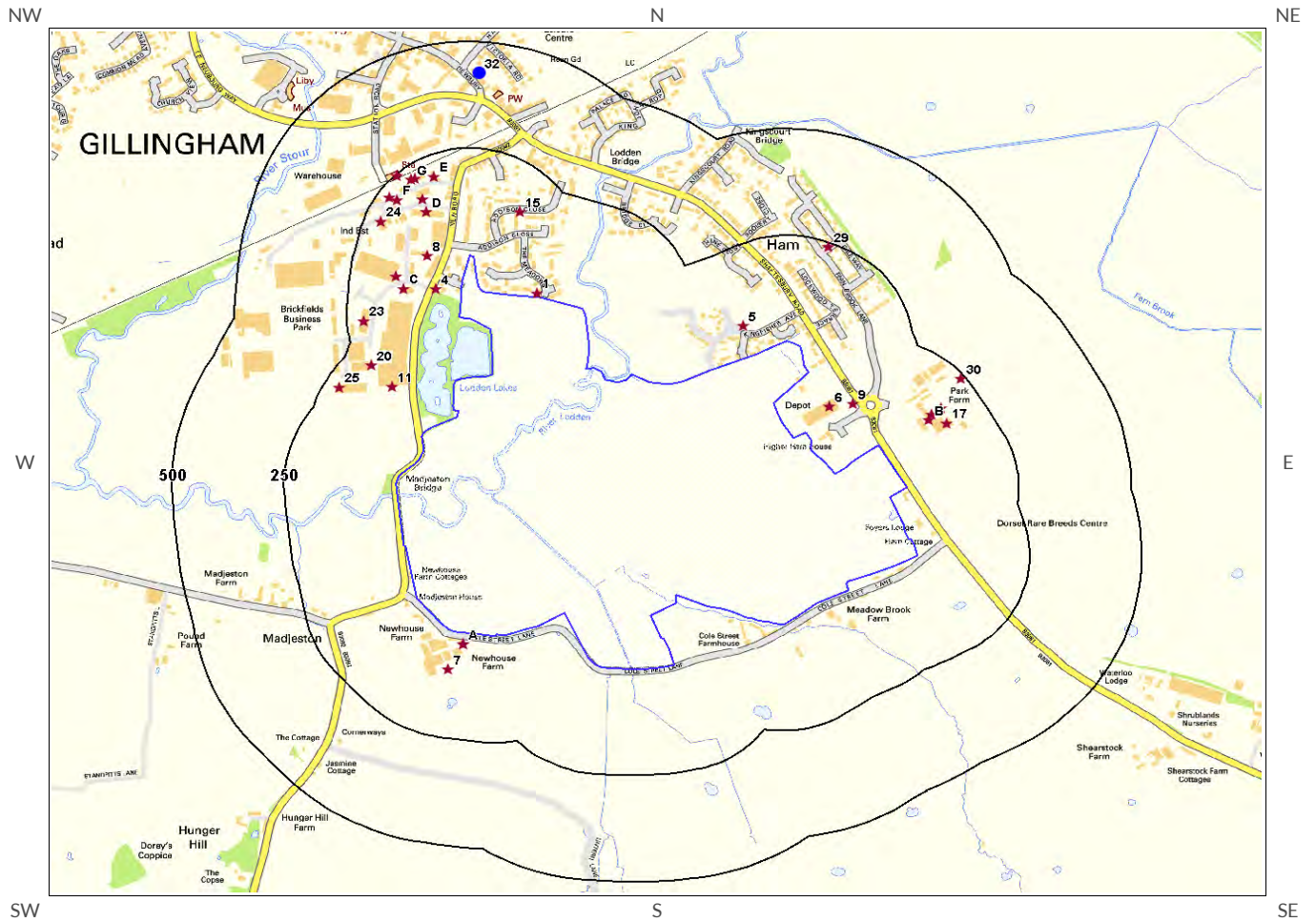
### 2.2.2 Records of Environment Agency licensed waste sites within 1500m of the study site:

1

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details		
4	205.0	NW	381070 126111	Site Address: Unit 8, Brickfields Ind Est, Gillingham, Dorset, SP8 4JL Type: HCI Waste Transfer Station Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TFB001 EPR reference: EA/EPR/MP3498VQ/A001 Operator: T F Builders Ltd Waste Management licence No: 101952 Annual Tonnage: 74999.0	Issue Date: 22/09/2010 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: T F Builders Ltd Correspondence Address: -, -	

# 3. Current Land Use Map



Current Land Use Legend



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Site Outline



Search Buffers (m)



Current Industrial Sites



Petrol & Fuel Sites



Underground High Pressure Oil & Fuel Pipelines





## 3. Current Land Uses

### 3.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site:

31

The following records are represented as points on the Current Land Uses map.

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	7.0	N	Production Engineering Developments	381304 125833	24, The Meadows, Gillingham, SP8 4SP	Industrial Engineers	Engineering Services
2A	28.0	S	Newhouse Farm Dairy	381139 125009	New House Farm, Cole Street Lane, Gillingham, SP8 5JQ	Dairy Products	Foodstuffs
3A	28.0	S	R Pike & Son	381139 125009	New House Farm, Cole Street Lane, Gillingham, SP8 5JQ	Dairy Farming	Farming
4	58.0	W	Electricity Sub Station	381079 125844	SP8	Electrical Features	Infrastructure and Facilities
5	72.0	N	Electricity Sub Station	381763 125757	SP8	Electrical Features	Infrastructure and Facilities
6	80.0	NE	Depot	381955 125568	SP8	Container and Storage	Transport, Storage and Delivery
7	90.0	S	Slurry Pit	381106 124951	SP8	Waste Storage, Processing and Disposal	Infrastructure and Facilities
8	92.0	W	Brickfields Business Park	381060 125921	SP8	Business Parks and Industrial Estates	Industrial Features
9	114.0	NW	Tank	382007 125574	SP8	Tanks (Generic)	Industrial Features
10B	125.0	NE	Bio Heat Ltd	382177 125536	Unit 5 Kingsmead Business Park, Gillingham, SP8 5FB	Industrial Repairs and Servicing	Repair and Servicing
11	127.0	NW	Electricity Sub Station	380983 125614	SP8	Electrical Features	Infrastructure and Facilities
12C	129.0	W	Autotechnics	381008 125844	Unit 21, Brickfields Business Park, Gillingham, SP8 4PX	Vehicle Repair, Testing and Servicing	Repair and Servicing
13B	137.0	NE	Blackmore Vale Upholstery Ltd	382182 125549	Unit 12 Kingsmead Business Park, Gillingham, SP8 5FB	Furniture	Consumer Products
14D	139.0	NW	South West Packaging Ltd	381059 126024	Brickfield Industrial Estate, New Road, Gillingham, SP8 4LT	Packaging	Industrial Products
15	147.0	NE	Electricity Sub Station	381266 126025	SP8	Electrical Features	Infrastructure and Facilities
16C	149.0	W	Electricity Sub Station	380990 125873	SP8	Electrical Features	Infrastructure and Facilities
17	154.0	NE	La Chasse Ltd	382216 125529	Unit 9 Kingsmead Business Park, Gillingham, SP8 5FB	Catering and Non Specific Food Products	Foodstuffs

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
18B	162.0	NE	Gillingham Tyre Factory	382203 125563	Unit 15 Kingsmead Business Park, Gillingham, SP8 5FB	Vehicle Parts and Accessories	Motoring
19D	167.0	NW	Brickfield Industrial Estate	381050 126054	SP8	Business Parks and Industrial Estates	Industrial Features
20	190.0	W	Electricity Sub Station	380935 125665	SP8	Electrical Features	Infrastructure and Facilities
21E	200.0	NW	Bomic Ltd	381074 126107	Unit 1, Brickyard Lane, Gillingham, SP8 4JL	Precision Engineers	Engineering Services
22F	208.0	NW	C Heckford Car Repairs	380992 126053	Unit 3 Brickfield Trading Estate, Gillingham, SP8 4JL	Vehicle Repair, Testing and Servicing	Repair and Servicing
23	213.0	W	Molekula Ltd	380919 125768	Unit 35, Brickfields Business Park, Gillingham, SP8 4PX	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
24	214.0	W	Sigma Engineering	380956 126002	Brickfield Industrial Estate, Gillingham, SP8 4LT	Vehicle Repair, Testing and Servicing	Repair and Servicing
25	216.0	NW	Mole Valley Systems Ltd	380864 125613	Unit 4, Brickfields Business Park, Gillingham, SP8 4PX	Industrial Repairs and Servicing	Repair and Servicing
26E	216.0	NW	Vitaltask Ltd	381033 126103	Unit 4-5, Brickyard Lane, Gillingham, SP8 4JL	Construction Completion Services	Construction Services
27G	219.0	NW	J & R Autos	381025 126100	Unit 6, Brickyard Lane, Gillingham, SP8 4JL	Vehicle Repair, Testing and Servicing	Repair and Servicing
28F	224.0	NW	F H Nutbeem	380975 126059	Unit 9, Brickyard Lane, Gillingham, SP8 4JL	Agricultural Contractors	Contract Services
29	239.0	N	Electricity Sub Station	381954 125942	SP8	Electrical Features	Infrastructure and Facilities
30	240.0	NE	Electricity Sub Station	382248 125633	SP8	Electrical Features	Infrastructure and Facilities
31G	247.0	NW	Gillingham Station	380992 126110	SP8	Railway Stations, Junctions and Halts	Public Transport, Stations and Infrastructure

### 3.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site:

1

The following petrol or fuel site records provided by Catalist are represented as points on the Current Land Use map:

ID	Distance (m)	Direction	NGR	Company	Address	LPG	Status
32	426.0	N	381176 126351	Obsolete	W H Light Gillingham, Newbury Street, Newbury Street, Gillingham, Dorset, SP8 4QJ	Not Applicable	Obsolete

### 3.3 Underground High Pressure Oil and Gas Pipelines

Records of high pressure underground pipelines within 500m of the study site:

0

Database searched and no data found.



## 4. Geology

### 4.1 Artificial Ground and Made Ground

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

### 4.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
ALV-CSSG	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
HEAD1-CSSG	HEAD, 1	CLAY, SILT, SAND AND GRAVEL
HEAD1-CSSG	HEAD, 1	CLAY, SILT, SAND AND GRAVEL
HEAD1-CSSG	HEAD, 1	CLAY, SILT, SAND AND GRAVEL
HEAD1-CSSG	HEAD, 1	CLAY, SILT, SAND AND GRAVEL
HEAD-CSSG	HEAD	CLAY, SILT, SAND AND GRAVEL

### 4.3 Bedrock and Solid Geology

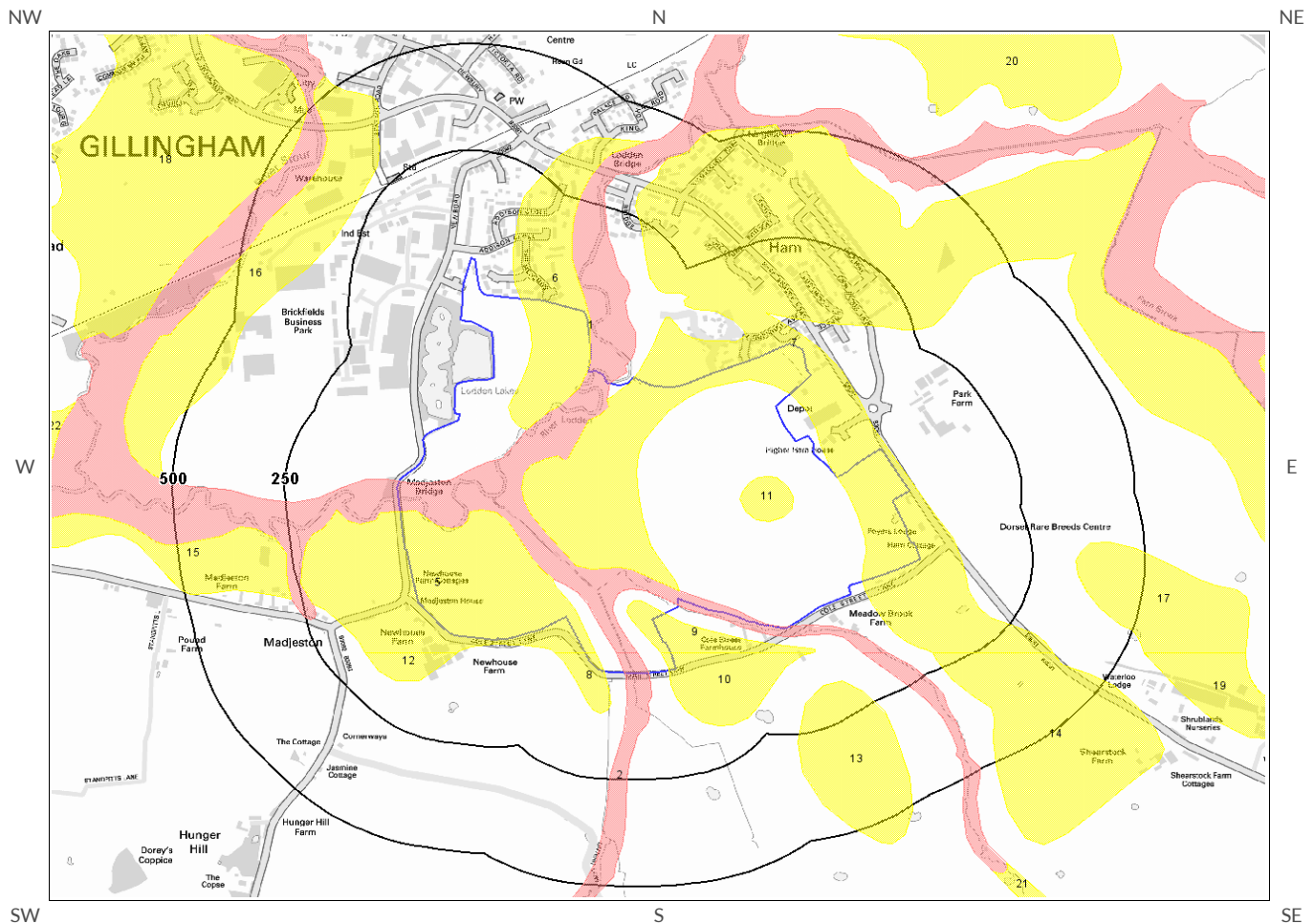
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
KC-MDST	KIMMERIDGE CLAY FORMATION	MUDSTONE

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

# 5. Hydrogeology and Hydrology

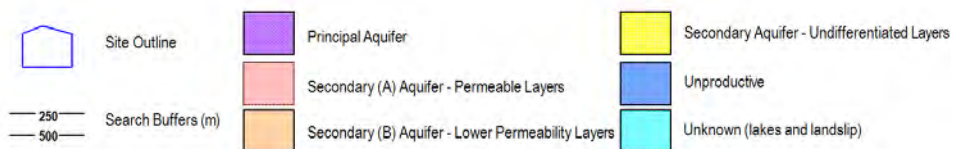
## 5a. Aquifer Within Superficial Geology



Map Legend

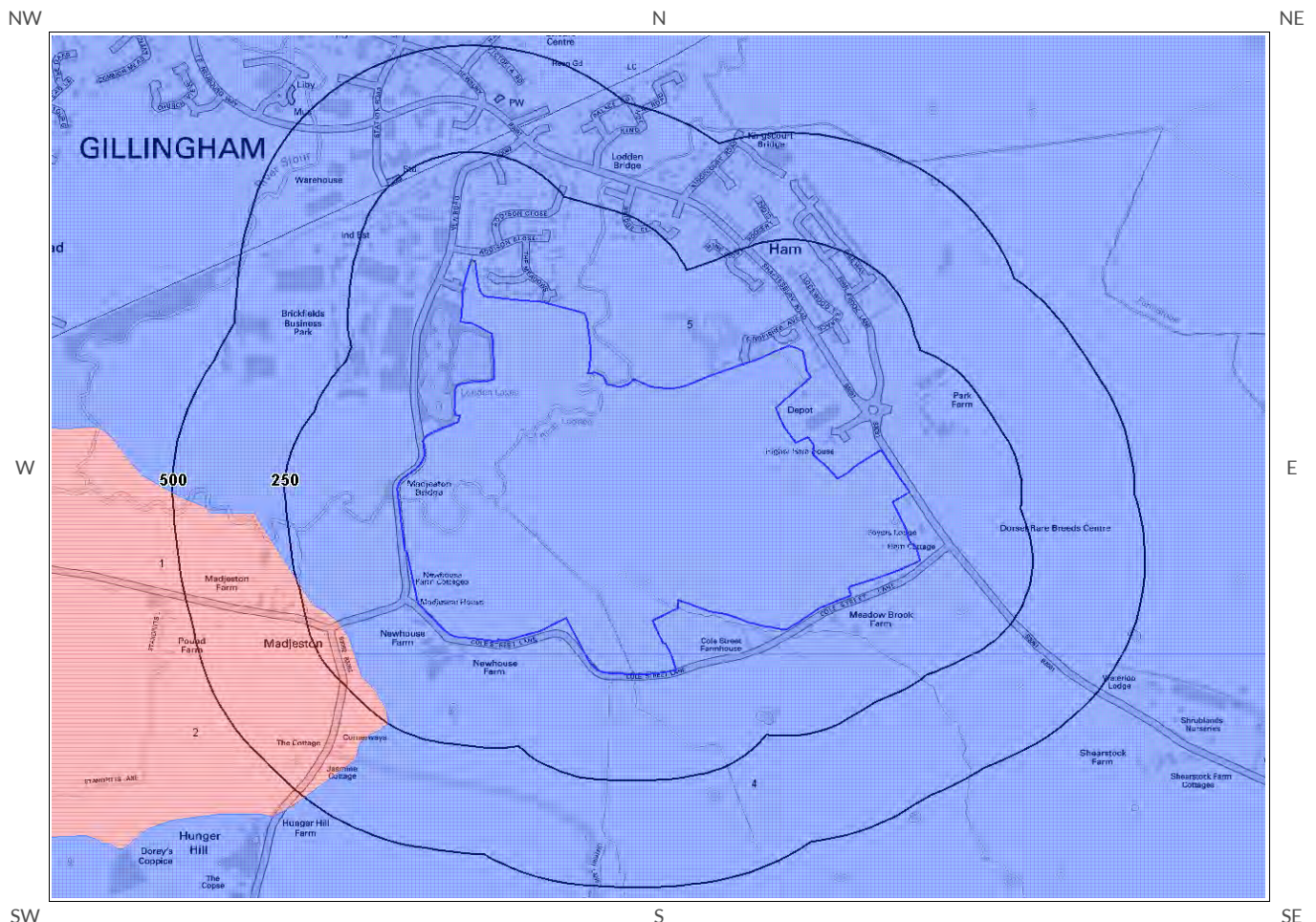
Mapping sourced from 

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# 5b. Aquifer Within Bedrock Geology and Abstraction Licenses

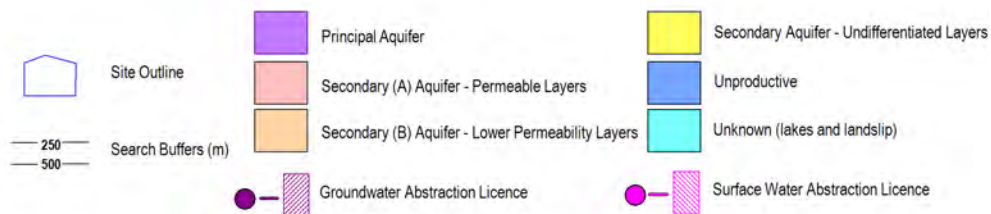


Map Legend

Mapping  
sourced from

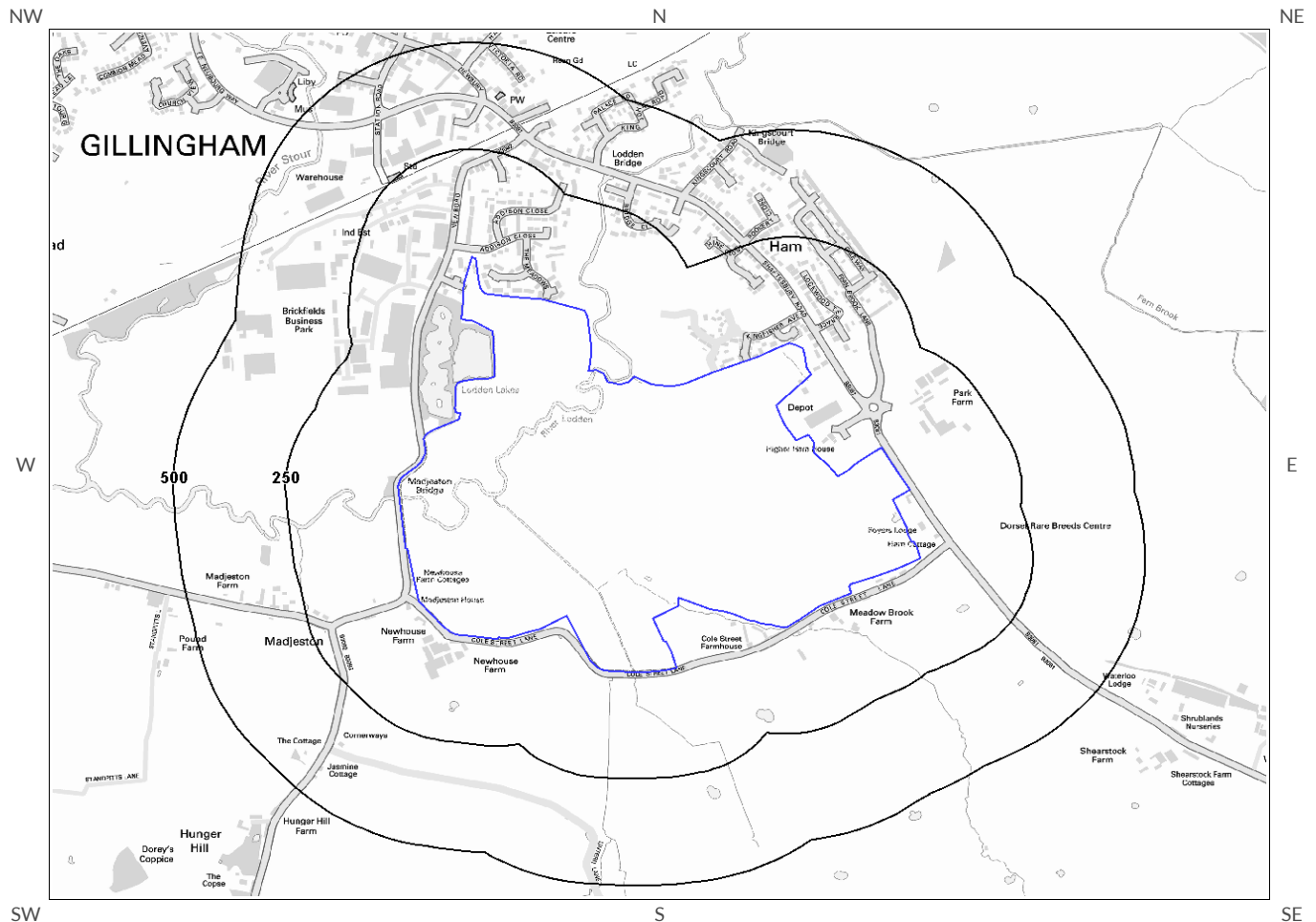


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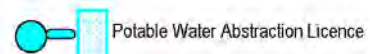
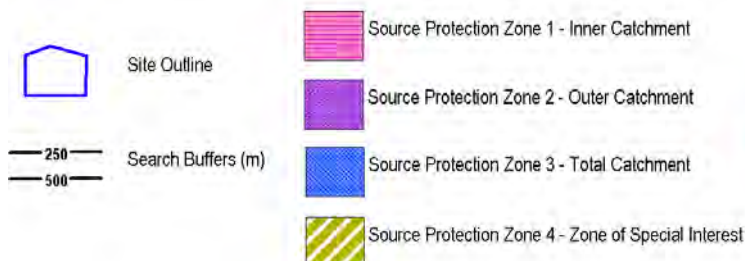
# 5c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



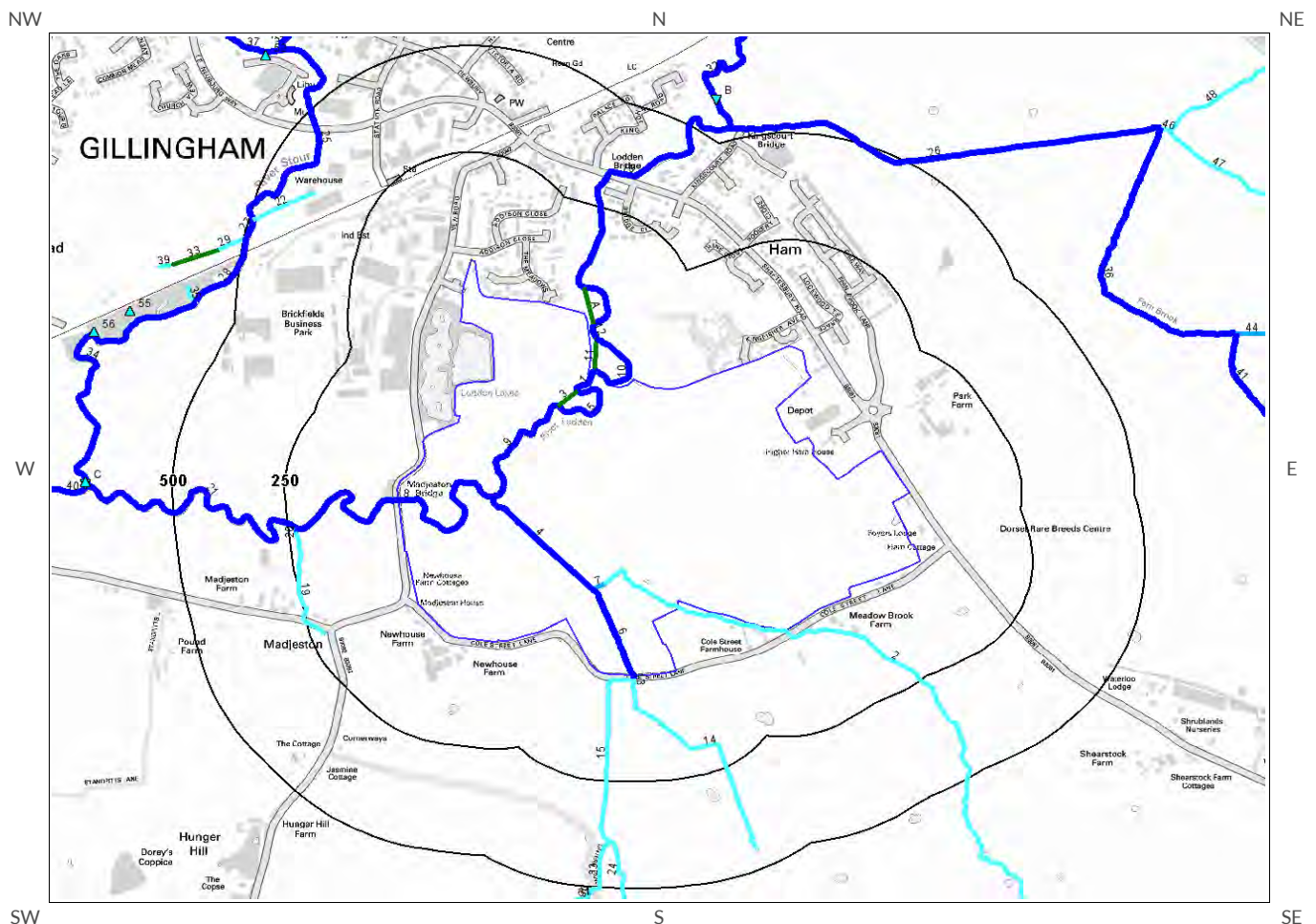
Map Legend



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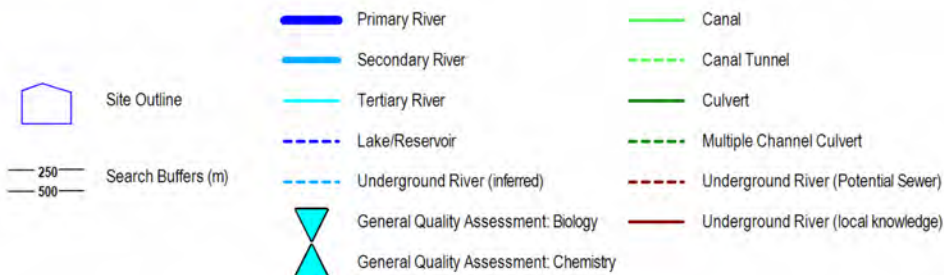
# 5d. Hydrology – Detailed River Network and River Quality



Map Legend



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# 5. Hydrogeology and Hydrology

## 5.1 Aquifer within Superficial Deposits

Are there records of strata classification within the superficial geology at or in proximity to the property? **Yes**

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (5a):

ID	Distance (m)	Direction	Designation	Description
1	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	0.0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
6	0.0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
7	0.0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
8	0.0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
9	0.0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
10	0.0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
11	0.0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
12	39.0	S	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

ID	Distance (m)	Direction	Designation	Description
3	135.0	SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
13	157.0	SE	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
14	209.0	S	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
15	262.0	W	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
16	284.0	NW	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
17	345.0	E	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
18	467.0	NW	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

## 5.2 Aquifer within Bedrock Deposits

Are there records of strata classification within the bedrock geology at or in proximity to the property? **Yes**

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (5b):

ID	Distance (m)	Direction	Designation	Description
4	0.0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	0.0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
1	172.0	SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	184.0	SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

### 5.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

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### 5.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

---

### 5.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

---

### 5.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site? No

Database searched and no data found.

---

### 5.7 River Quality

Is there any Environment Agency information on river quality within 1500m of the study site? Yes

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### 5.7.1 Biological Quality:

Biological Quality data describes water quality in terms of 83 groups of macroinvertebrates, some of which are pollution sensitive. The results are graded from A ('Very Good') to F ('Bad').

The following Biological Quality records are shown on the Hydrology Map (5d):

ID	Distance (m)	Direction	NGR	River Quality Grade	Biological Quality Grade				
					2005	2006	2007	2008	2009
49B	583.0	NE	381700 126300	River Name: Lodden Reach: Ham Common-conf With Stour End/Start of Stretch: Start of Stretch NGR	B	B	C	C	C
50B	583.0	NE	381700 126300	River Name: Lodden Reach: Lr Mere Pk Fm-ham Common End/Start of Stretch: End of Stretch NGR	B	B	C	C	C
51C	692.0	W	380300 125400	River Name: Lodden Reach: Ham Common-conf With Stour End/Start of Stretch: End of Stretch NGR	B	B	C	C	C

### 5.7.2 Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAHI). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (5d):

ID	Distance (m)	Direction	NGR	River Quality Grade	Chemical Quality Grade				
					2005	2006	2007	2008	2009
52	658.0	NW	380700 126400	River Name: Shreen Wtr Reach: Kendalls Mill-conf With Stour End/Start of Stretch: End of Stretch NGR	B	B	B	B	B
53C	692.0	W	380300 125400	River Name: Stour Reach: Conf With Lodden-eccliffie Mill End/Start of Stretch: Start of Stretch NGR	B	B	A	A	A
54C	692.0	W	380300 125400	River Name: Stour Reach: D/s Gillingham-conf With Lodden End/Start of Stretch: End of Stretch NGR	C	B	B	A	A
55	715.0	NW	380400 125800	River Name: Stour Reach: D/s Gillingham-conf With Lodden End/Start of Stretch: Start of Stretch NGR	C	B	B	A	A
56	764.0	NW	380318 125753	River Name: Stour Reach: D/s Gillingham-conf With Lodden End/Start of Stretch: Sample Point NGR	C	B	B	A	A
Not shown	1189.0	W	379804 125332	River Name: Stour Reach: Conf With Lodden-eccliffie Mill End/Start of Stretch: Sample Point NGR	B	B	A	A	A

## 5.8 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site?

Yes

The following Detailed River Network records are represented on the Hydrology Map (5d):

ID	Distance (m)	Direction	Details	
1	0.0	On Site	River Name: River Lodden Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
2	0.0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
3	0.0	On Site	River Name: River Lodden Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
4	0.0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
5	0.0	On Site	River Name: River Lodden Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
6	0.0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
7	0.0	On Site	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
8	0.0	On Site	River Name: River Lodden Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
9	0.0	On Site	River Name: River Lodden Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
10	3.0	N	River Name: River Lodden Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
11	3.0	N	River Name: River Lodden Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
12	9.0	E	River Name: River Lodden Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
13	10.0	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
14	12.0	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
15	12.0	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
16 A	12.0	E	River Name: River Lodden Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
17 A	14.0	E	River Name: River Lodden Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
18	60.0	N	River Name: River Lodden Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
19	220.0	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
20	233.0	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
21	233.0	W	River Name: River Lodden Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined

ID	Distance (m)	Direction	Details	
22	379.0	NW	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
23	391.0	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
24	391.0	S	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
25	412.0	NW	River Name: River Stour Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
26	486.0	NE	River Name: Motcombe Stream Welsh River Name: - Alternative Name: Fern Brook	River Type: Primary River Main River Status: Currently Undefined
27	489.0	W	River Name: River Stour Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
28	493.0	W	River Name: River Stour Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
29	494.0	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined

## 5.9 Surface Water Features

Are there any surface water features within 250m of the study site?

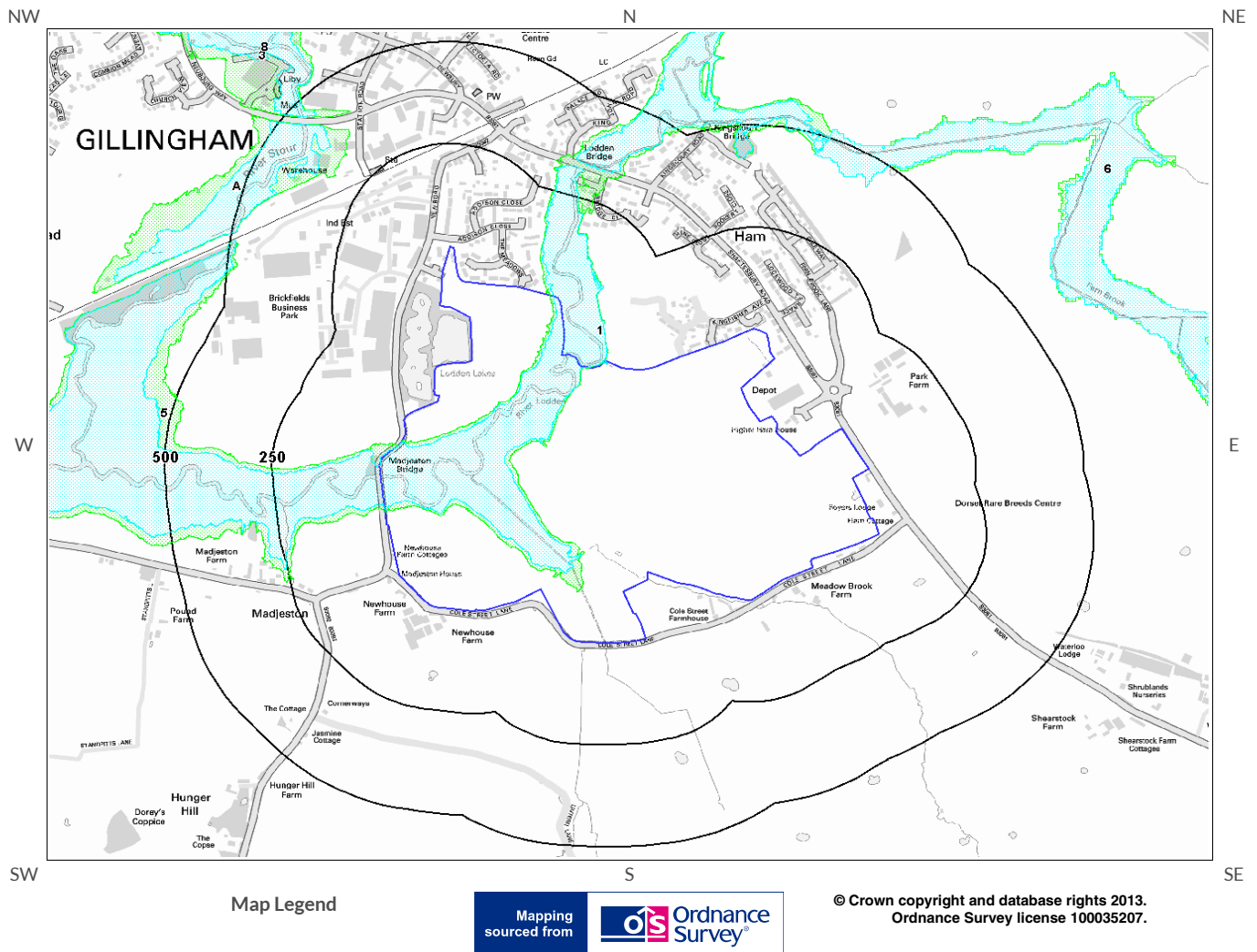
Yes

The following surface water records are not represented on mapping:

Distance (m)	Direction
0.0	On Site
0.0	On Site
0.0	On Site
0.0	On Site
0.0	On Site
0.0	On Site
1.0	S
4.0	NW
8.0	W
9.0	W
12.0	S
12.0	S
15.0	SE
36.0	NE
86.0	E
89.0	E
90.0	SE
169.0	S
195.0	S
221.0	W
232.0	W
233.0	W



# 6. Environment Agency Flood Map for planning (from rivers and the sea)





## 6. Flooding

### 6.1 Zone 2 Flooding

Environment Agency Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 1 – Environment Agency Flood Map for Planning:

Is the site within 250m of an Environment Agency Zone 2 floodplain? Yes

The following floodplain records are represented as green shading on the Flood Map:

ID	Distance (m)	Direction	Update	Type
1	0.0	On Site	27-Feb-2013	Zone 2 - (Fluvial Models)

### 6.2 Zone 3 Flooding

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 1 – Environment Agency Flood Map for Planning.

Is the site within 250m of an Environment Agency Zone 3 floodplain? Yes

The following floodplain records are represented as blue shading on the Flood Map:

ID	Distance (m)	Direction	Update	Type
5	0.0	On Site	27-Feb-2014	Zone 3 - (Fluvial Models)

### 6.3 Flood Defences

Are there any Flood Defences within 250m of the study site? No

Database searched and no data found.

### 6.4 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site? No

## 6.5 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site?

No

## 6.6 Groundwater Flooding Susceptibility Areas

6.6.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site?

Yes

Does this relate to Clearwater Flooding or Superficial Deposits Flooding?

Superficial Deposits Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

6.6.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Very High

## 6.7 Groundwater Flooding Confidence Areas

What is the British Geological Survey confidence rating in this result?

High

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.