

DOGGER BANK D WIND FARM

Preliminary Environmental Information Report

Volume 2

Appendix 19.2 Preliminary Risk
Assessment (Part 2 of 2)

Document Reference No: 2.19.2

Date: June 2025

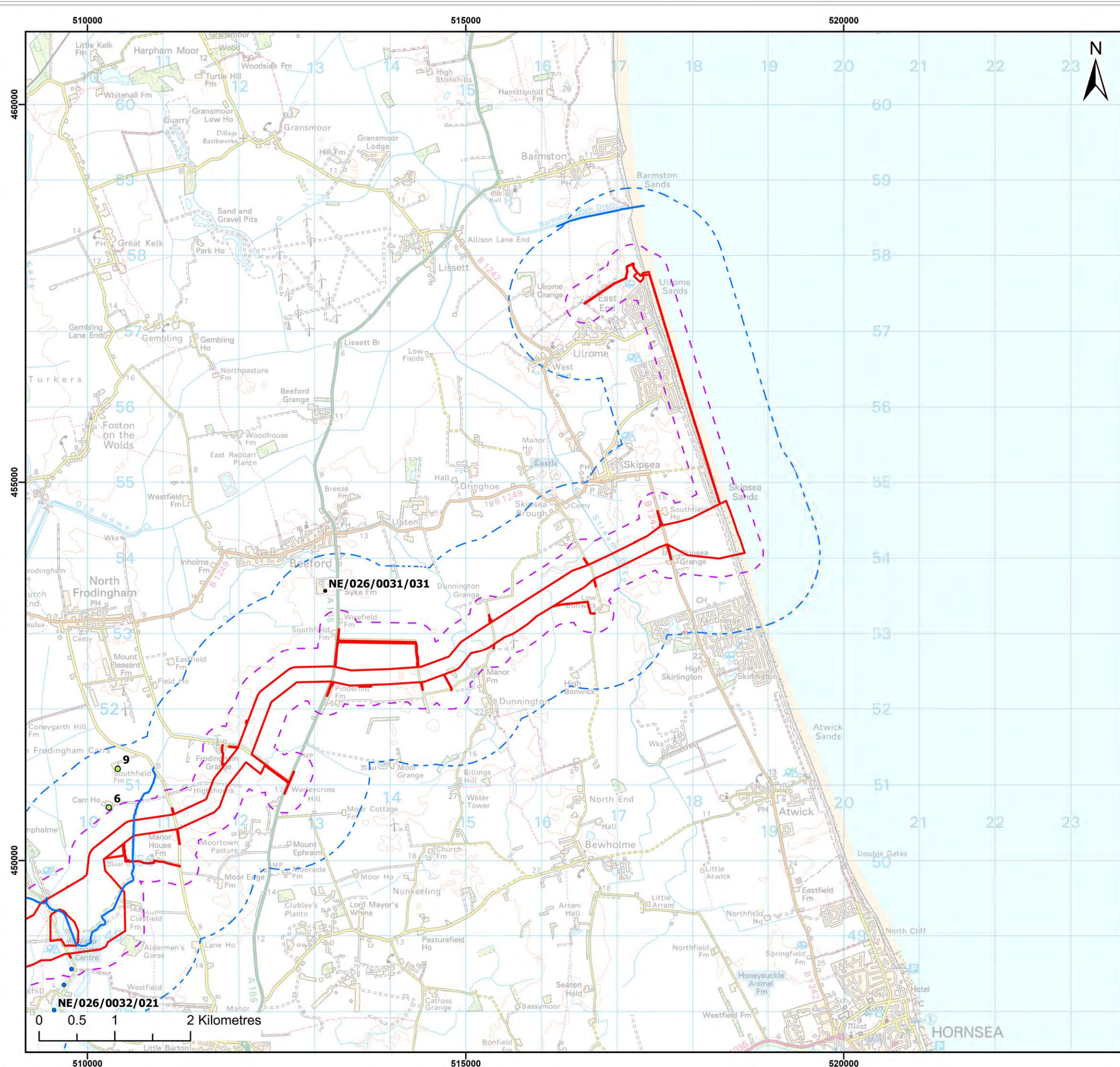
Revision: V1



www.doggerbankd.com

Document Title:	Volume 2, Appendix 19.2 Preliminary Risk Assessment (Part 2 of 2)
Document BIM No.	PC6250-RHD-XX-ON-RP-EV-0074
Prepared By:	Royal HaskoningDHV
Prepared For:	Dogger Bank D Offshore Wind Farm

Revision No.	Date	Status / Reason for Issue	Author	Checked By	Approved By
V1	22/05/2025	Final	AW	AG	AT



Legend:

- Onshore Development Area
- Onshore Development Area 250m Buffer
- Onshore Development Area 1km Buffer
- Statutory Main River Map
- Domestic abstraction well under the jurisdiction of the Local Authority

Licensed groundwater & surface water abstractions
(labelled licence number eg NE/026/0031/031)

- Groundwater - non potable
- Groundwater - potable

Source Protection Zone

1

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Project:

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**DOGGER BANK
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Title:

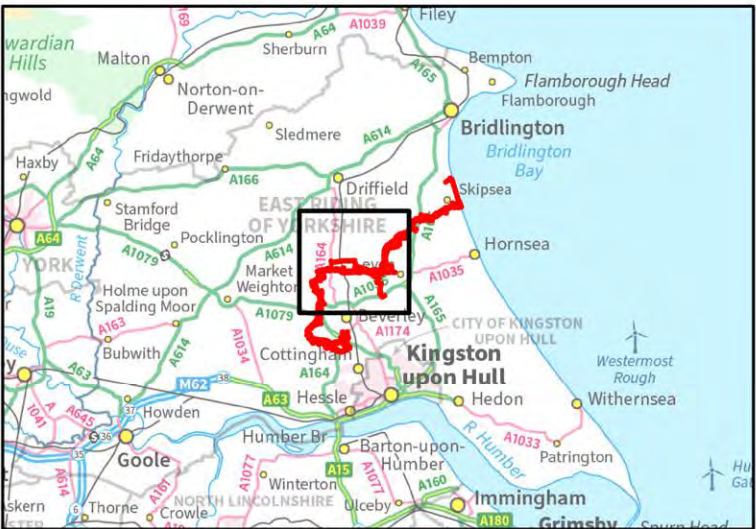
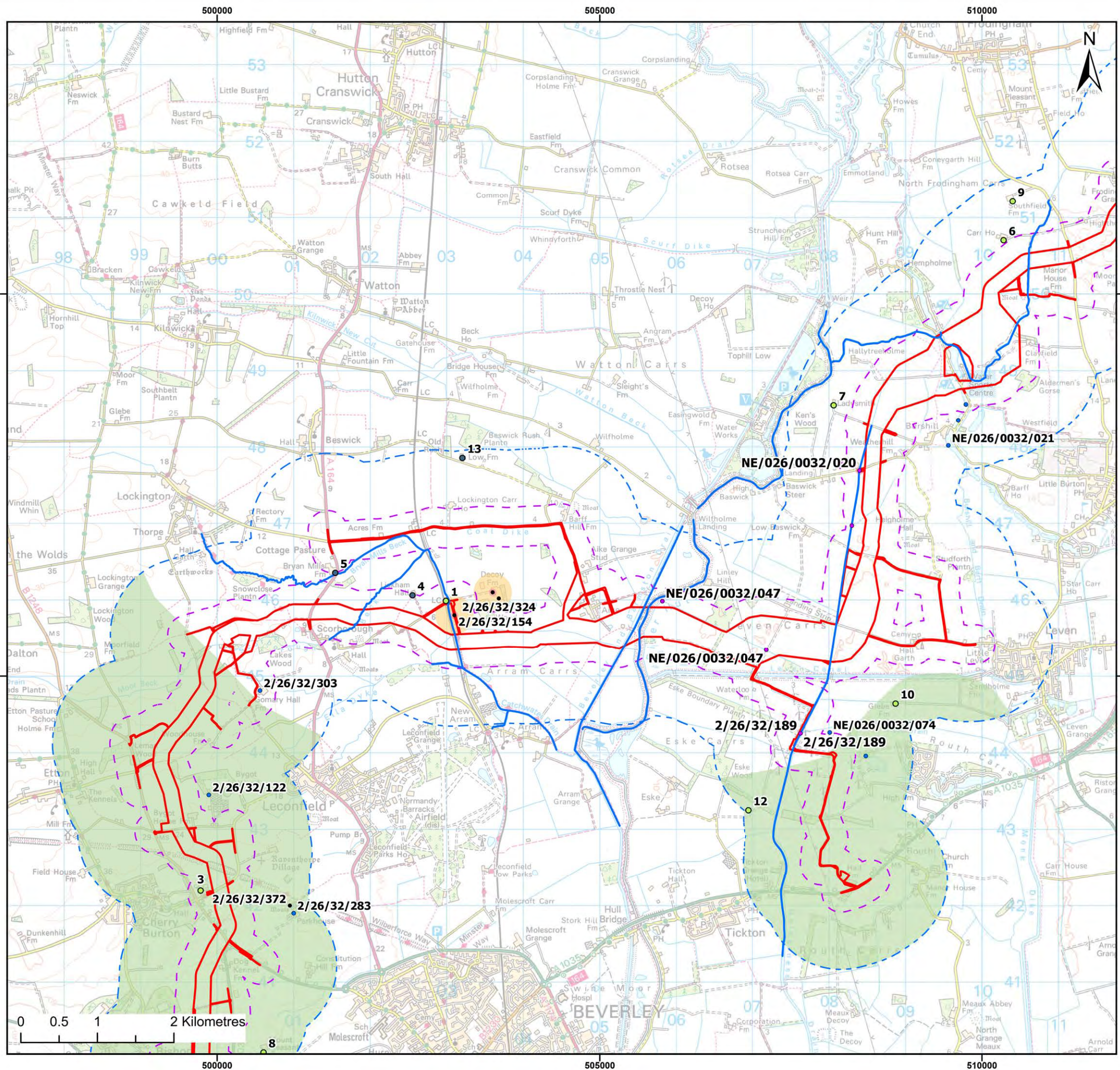
Hydrogeology and Hydrology
- Sheet 1 of 3

Figure: 19.2-11	Drawing No: PC6250-RHD-XX-ON-DR-GS-0202
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Revision:	Date:	Drawn:	Checked:	Size:	Scale:
02	26/03/2025	JH	AB	A3	1:50,000
01	07/11/2024	AB	GC	A3	1:50,000

Co-ordinate system: British National Grid





Legend:

- Onshore Development Area
- Onshore Development Area 250m Buffer
- Onshore Development Area 1km Buffer
- Statutory Main River Map
- Commercial abstraction well under the jurisdiction of the Local Authority
- Domestic abstraction well under the jurisdiction of the Local Authority

Licensed groundwater & surface water abstractions
(labelled licence number eg NE/026/0031/031)

- Groundwater - non potable
- Groundwater - potable
- Surface water - non potable

Source Protection Zone

- 1
- 2
- 3

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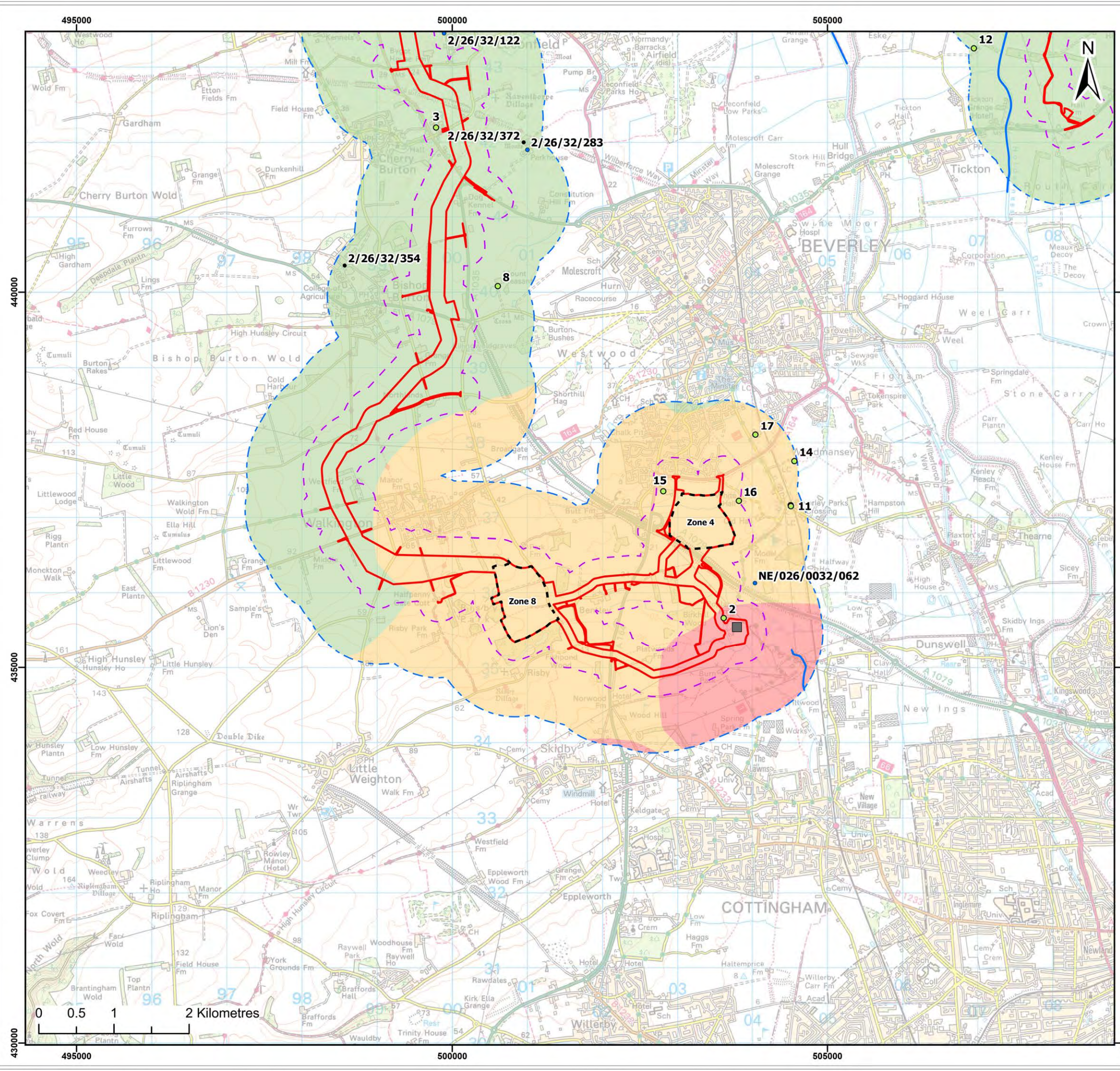
Hydrogeology and Hydrology
- Sheet 2 of 3

Figure: 19.2-11 **Drawing No:** PC6250-RHD-XX-ON-DR-GS-0202

Revision:	Date:	Drawn:	Checked:	Size:	Scale:
02	26/03/2025	JH	AB	A3	1:50,000
01	07/11/2024	AB	GC	A3	1:50,000

Co-ordinate system: British National Grid

**sse
Renewables** **equinor**



Legend:

- Onshore Development Area
- Onshore Development Area 250m Buffer
- Onshore Development Area 1km Buffer
- Onshore Converter Station Zone Options
- Indicative Birkhill Wood Substation Location
- Statutory Main River Map
- Domestic abstraction well under the jurisdiction of the Local Authority

Licensed groundwater & surface water abstractions
(labelled licence number eg NE/026/0031/031)

- Groundwater - non potable
- Groundwater - potable

Source Protection Zone

- 1
- 2
- 3

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Project:

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**DOGGER BANK
WIND FARM**

Title:

Hydrogeology and Hydrology
- Sheet 3 of 3

Figure: 19.2-11

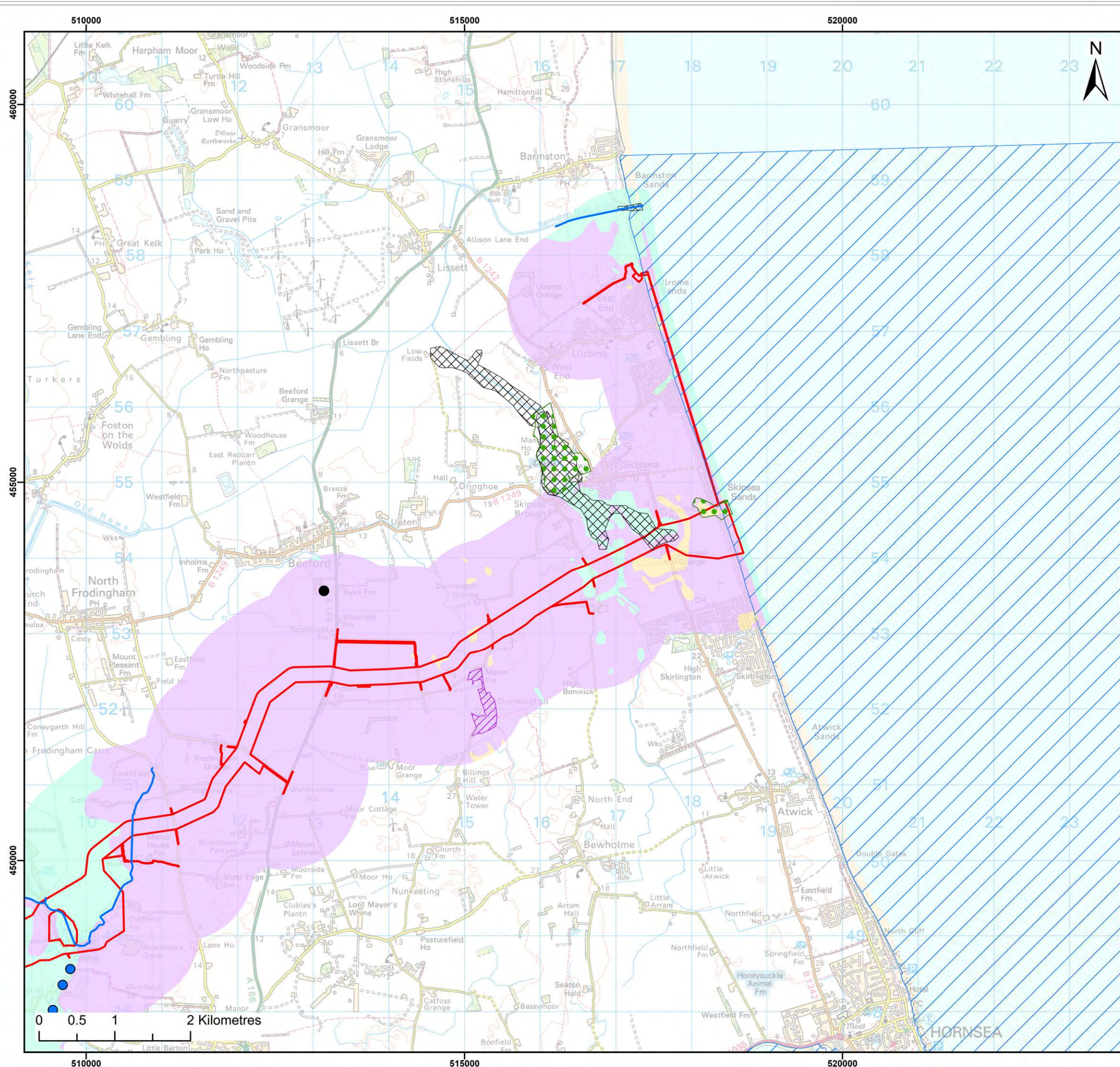
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Co-ordinate system: British National Grid

sse
Renewables

equinor



Legend:

- Onshore Development Area
- Special Protection Area (SPA)
- Sites of Special Scientific Interest (SSSI)
- Local Geological Sites
- Conservation Area
- Statutory Main River Map
- Secondary Aquifer - A
- Secondary Aquifer - B
- Secondary Aquifer - Undifferentiated

Licensed groundwater & surface water abstractions

- Groundwater - non potable
- Groundwater - potable

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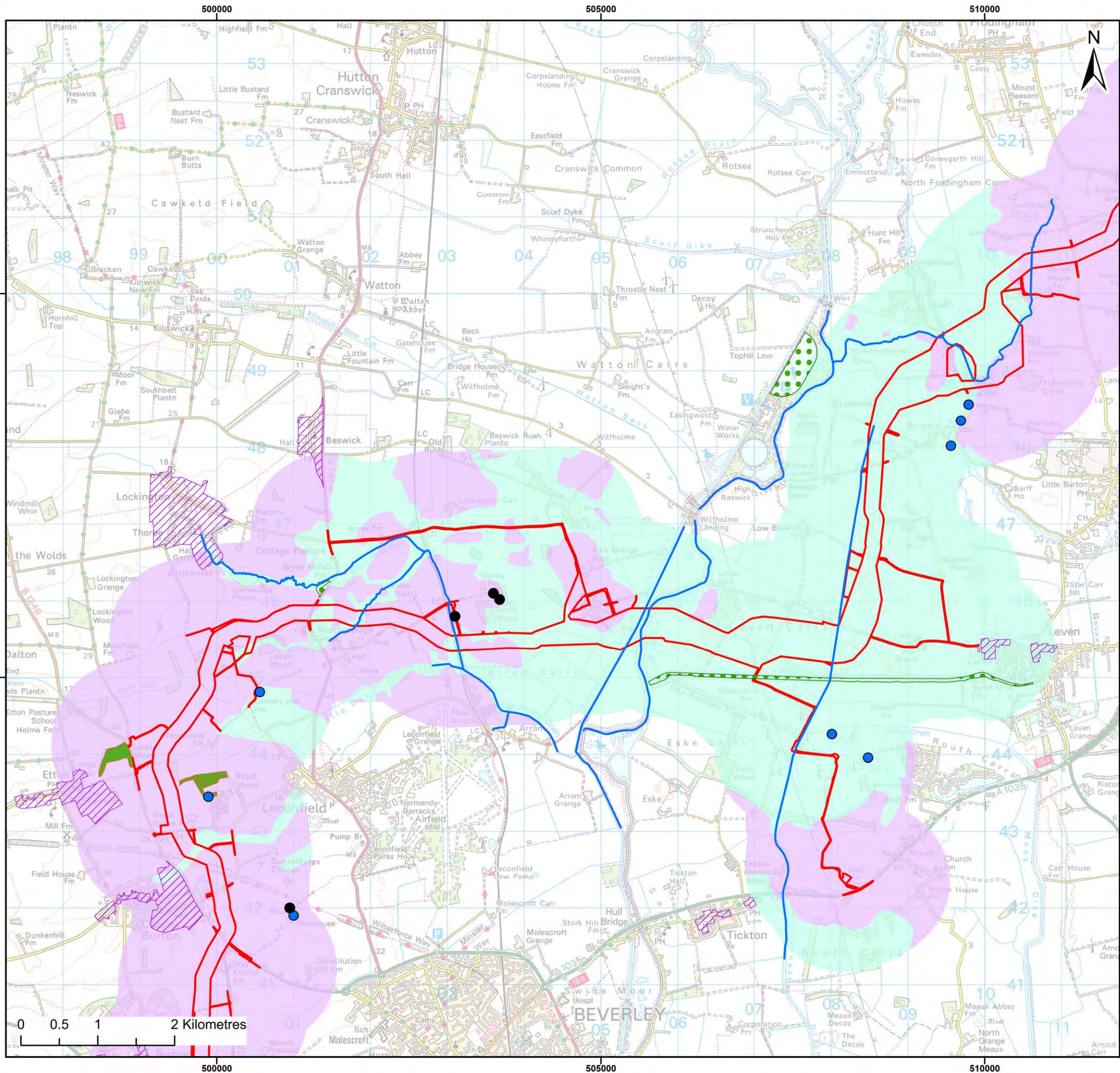
**DOGGER BANK
WIND FARM**

Title:

Potential Receptors
- Sheet 1 of 3

Figure: 19.2-12	Drawing No: PC6250-RHD-XX-ON-DR-GS-0277				
Revision:	Date:	Drawn:	Checked:	Size:	Scale:
02	26/03/2025	JH	AB	A3	1:50,000
01	07/11/2024	AB	GC	A3	1:50,000

Co-ordinate system: British National Grid



Legend:

- Onshore Development Area
- Sites of Special Scientific Interest (SSSI)
- Ancient Woodland
- Conservation Area
- Statutory Main River Map
- Secondary Aquifer - A
- Secondary Aquifer - Undifferentiated

Licensed groundwater & surface water abstractions

- Groundwater - non potable
- Groundwater - potable

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Project:

Dogger Bank D Offshore Wind Farm

DOGGER BANK WIND FARM

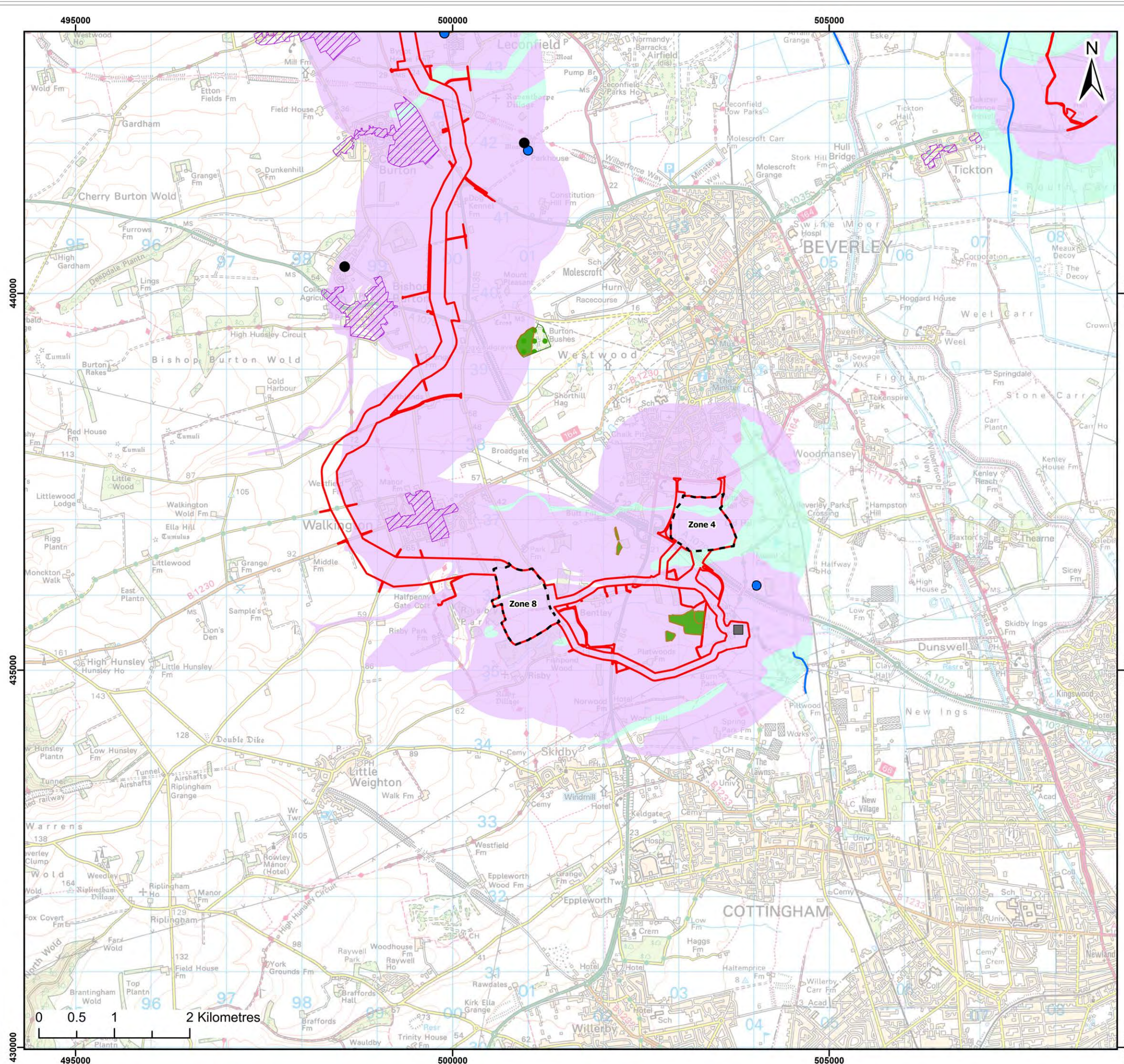
Title:

Potential Receptors - Sheet 2 of 3

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Potential Receptors
- Sheet 3 of 3

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Annex B Geo Environmental Walkover Photos



Photograph 1. Landfall area looking east from Hornsea Road



Photograph 2. Landfall area looking north along the cliff face



Photograph 3. Carr Lane looking west. The bridge is located over Holderness Drain



Photograph 4. Shepherd Lane looking southwest towards Onshore Converter Station Zone 4



Photograph 5. Onshore Converter Station Zone 4 (far field) looking north-west from Park Lane



Photograph 6. Onshore Converter Station Zone 4 looking south down the southern boundary



Photograph 7. Coppleflat Lane looking west towards Onshore Converter Station Zone 8 (northern access road)



Photograph 8. Hedgerow along the central field boundary of Onshore Converter Station Zone 8 and undulating topography



Photograph 9. Private farmland wildlife conservation area in Onshore Converter Station Zone 8



Photograph 10. Rise in topography across the landfall area (adjacent to Withow Gap SSSI)

	Project: Dogger Bank D Wind Farm	
	Client: SSE Renewables and Equinor	
	Site Walkover Photographic Plates	
	Project No.: PC6250	Date:6 th December 2024



Photograph 11. Scarborough Beck adjacent to railway north of Arram station



Photograph 12. Towend pit topographically a low point



Photograph 13. Towend Pit drainage pipe



Photograph 14. Onshore Converter Station Zone 8 looking south towards southern fields. Photo shows undulating topography

Project: Dogger Bank D Wind Farm

Client: SSE Renewables and Equinor

Site Walkover Photographic Plates

Project No.: PC6250

Date:6th December 2024



Photograph 15. Onshore Converter Station Zone 8 looking south from Copleflat Lane (northeast corner of OCS Zone 8) showing undulating topography



Photograph 16. Landfall ploughed field looking south from Hornsea Road



Photograph 17. Private caravan site adjacent to Driffeld Beach



Photograph 18. Skipsea drain local geological site (southern fields looking west)



Photograph 19. Railway adjacent to Scarborough Beck



Photograph 20. Onshore Converter Station Zone 8 agricultural land growing potatoes



Photograph 21. Onshore Converter Station Zone 8 private access road (southern access road)



Photograph 22. Heavily tracked location in Onshore Converter Station Zone 8

Project: Dogger Bank D Wind Farm

Client: SSE Renewables and Equinor

Site Walkover Photographic Plates

Project No.: PC6250

Date:6th December 2024



Photograph 23. Beverley Airfield overland petroleum storage tanks



Photograph 24. Circular tank feature adjacent to the northerly access road off Coppleflat Lane



Photograph 25. Beverley Airfield warehouses and delivery trucks



Photograph 26. Sheen on drain northeast of Withow Gap SSSI.

Project: Dogger Bank D Wind Farm

Client: SSE Renewables and Equinor

Site Walkover Photographic Plates

Project No.: PC6250

Date:6th December 2024



Photograph 27. Localised fly tipping located along the northern boundary of the landfall



Photograph 28. Brown sludgy material within Holderness Drain



Photograph 29. Oily sheen within Holderness Drain



Photograph 30. Containers containing unknown substances



Photograph 31. Containers and buckets containing unknown substances



Photograph 32. Unknown electrical equipment

Annex C UXO Risk Maps

UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 498094,440487



This map principally indicates a hazard from Unexploded Bombs (UXB) due to WWII bombardment. Other sources of Unexploded Ordnance (UXO) may be present. It should be noted that this map does not represent UXO risk and should not be reported as such when reproduced.

LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.



How to use your Unexploded Bomb (UXB) risk map?

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What if my Site is in a moderate or high density area?

We typically recommend that a detailed UXO desk study and risk assessment is undertaken for sites in an area with a moderate or high bombing density. Additionally, if your site is in close proximity to a strategic target, military establishment, airfield or bombing decoy, then [additional detailed research](#) is recommended.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirm that there is a low potential for UXO to be present on your site, then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

If you are unsure whether other sources of UXO may be present, you can request one of our [pre-desk study assessments \(PDSA\)](#) by emailing a site boundary and location to pdsa@zetica.com.

You should never plan site work or undertake a risk assessment using these maps alone. More detail is required, to include an assessment of the likelihood of a source of UXO hazard from other military activity not reflected on these maps.

If I have any questions, who do I contact?

tel: +44 (0) 1993 886682 email: uxo@zetica.com web: www.zeticauxo.com

The information in this UXB risk map is derived from a range of sources and should be used with the [accompanying notes on our website](#).

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UNEXPLODED BOMB RISK MAP



SITE LOCATION

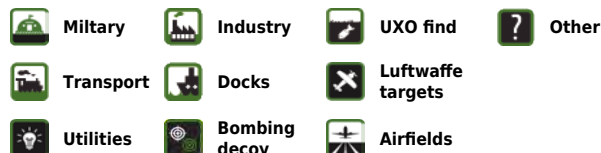
Map Centre: 498148,439015



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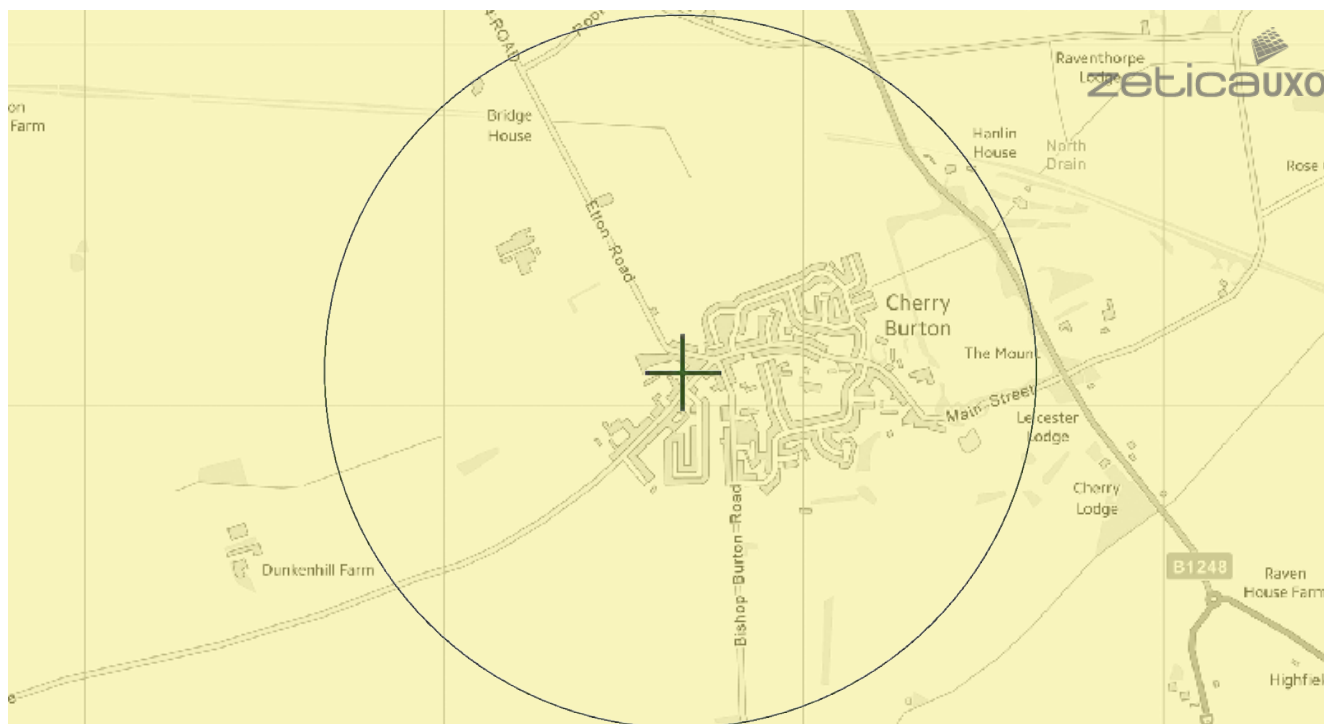
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 498627,442097



This map principally indicates a hazard from Unexploded Bombs (UXB) due to WWII bombardment. Other sources of Unexploded Ordnance (UXO) may be present. It should be noted that this map does not represent UXO risk and should not be reported as such when reproduced.

LEGEND

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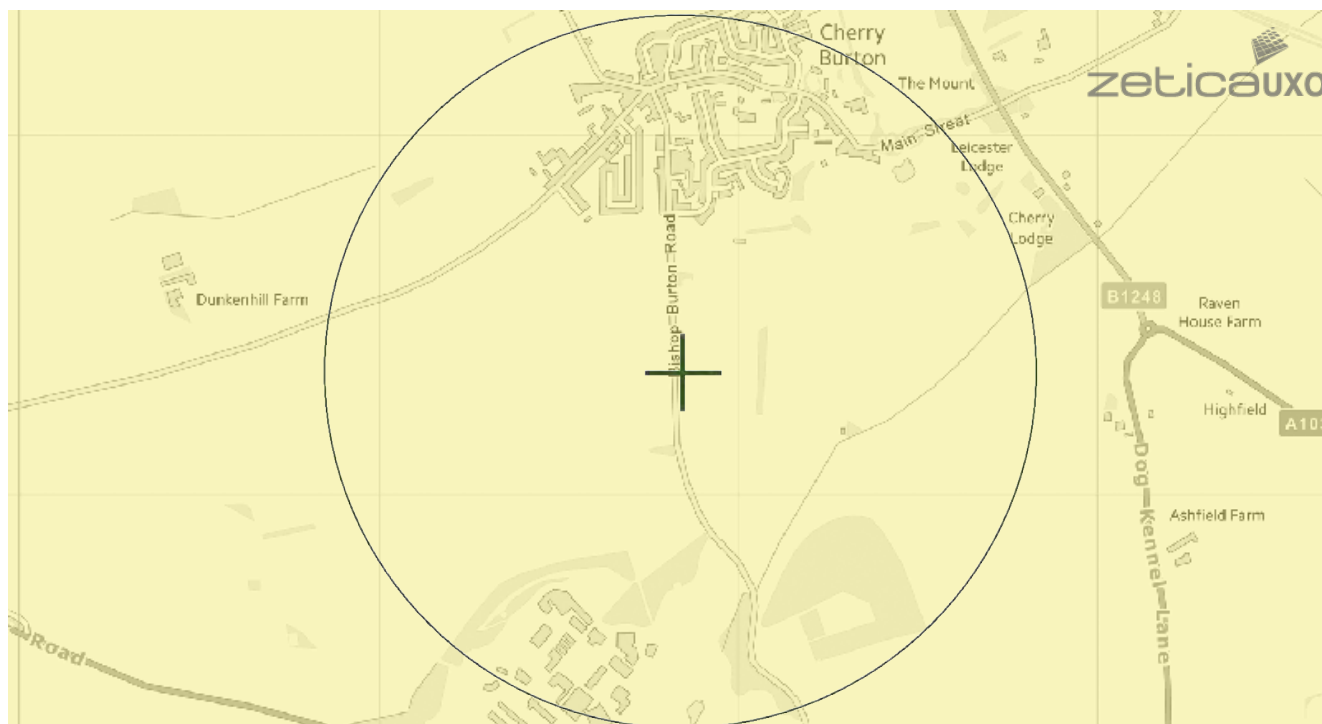
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 498810,441346



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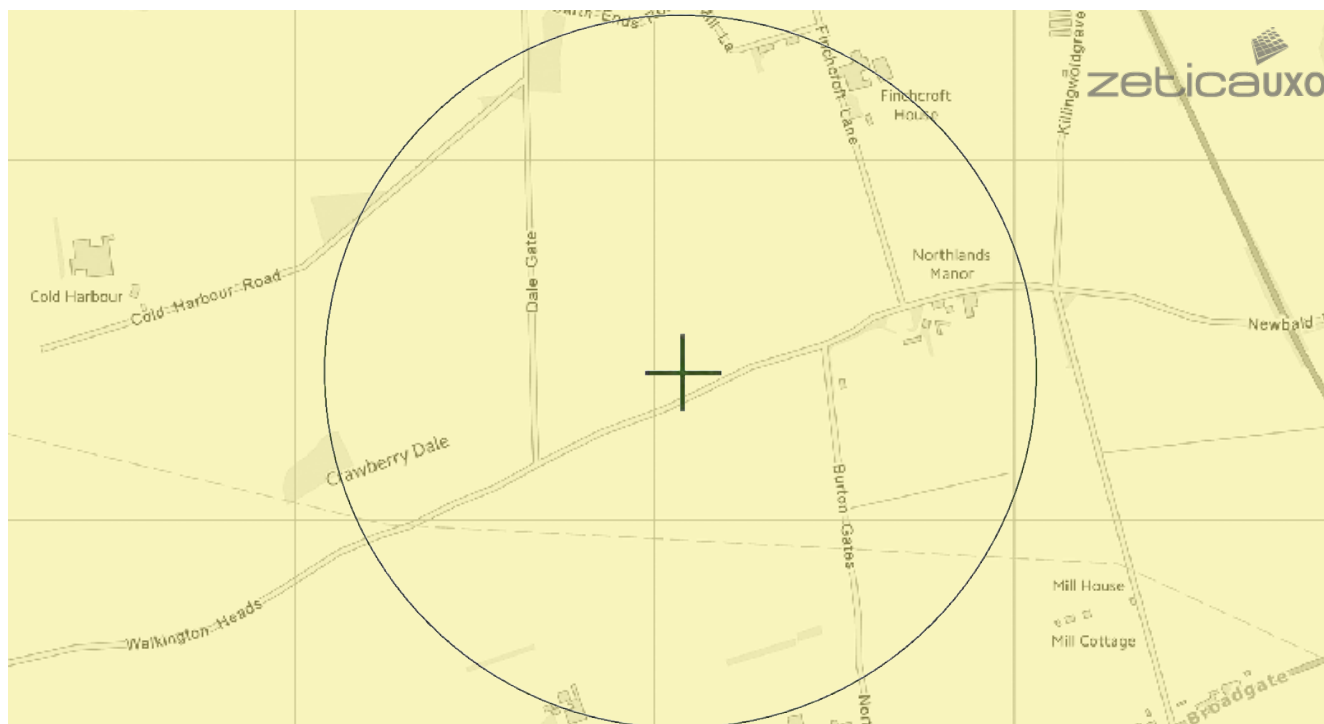
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 499042,438418



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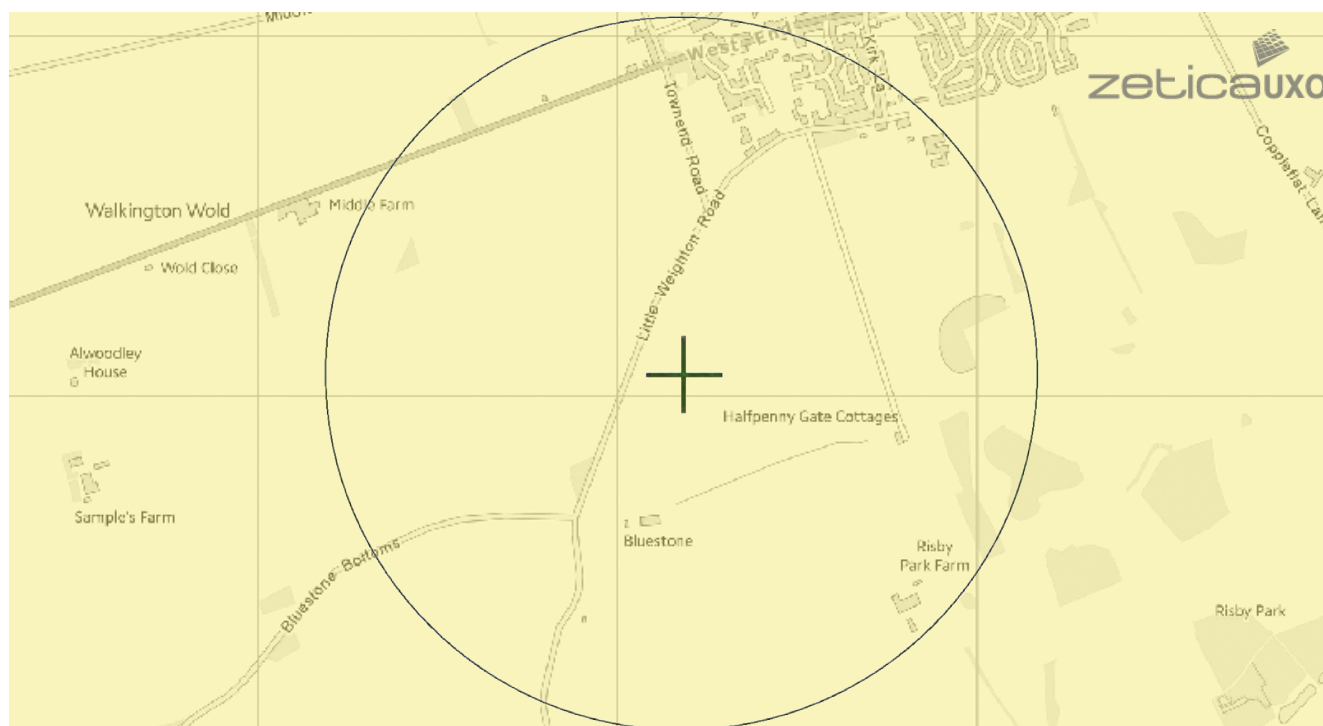
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 499148,436067



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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 499442,444349



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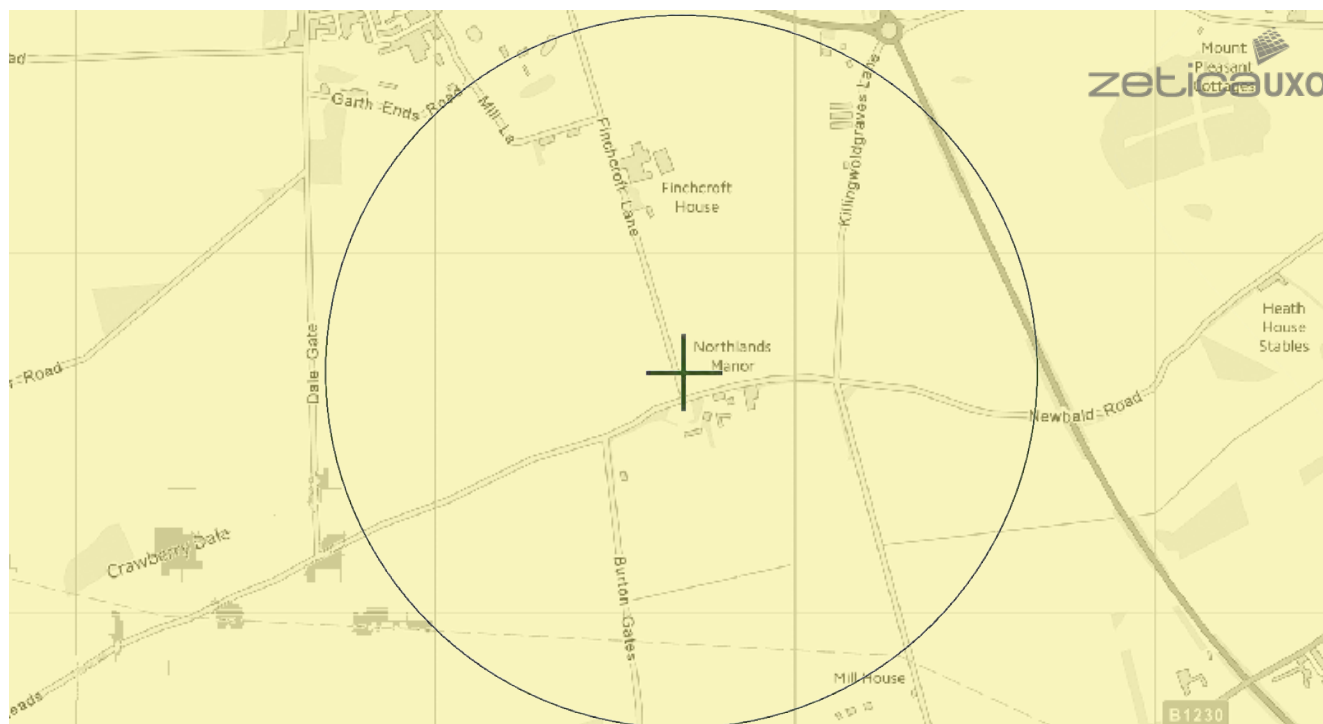
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

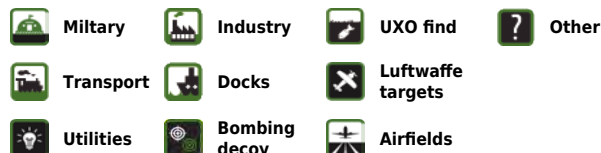
Map Centre: 499654,438674



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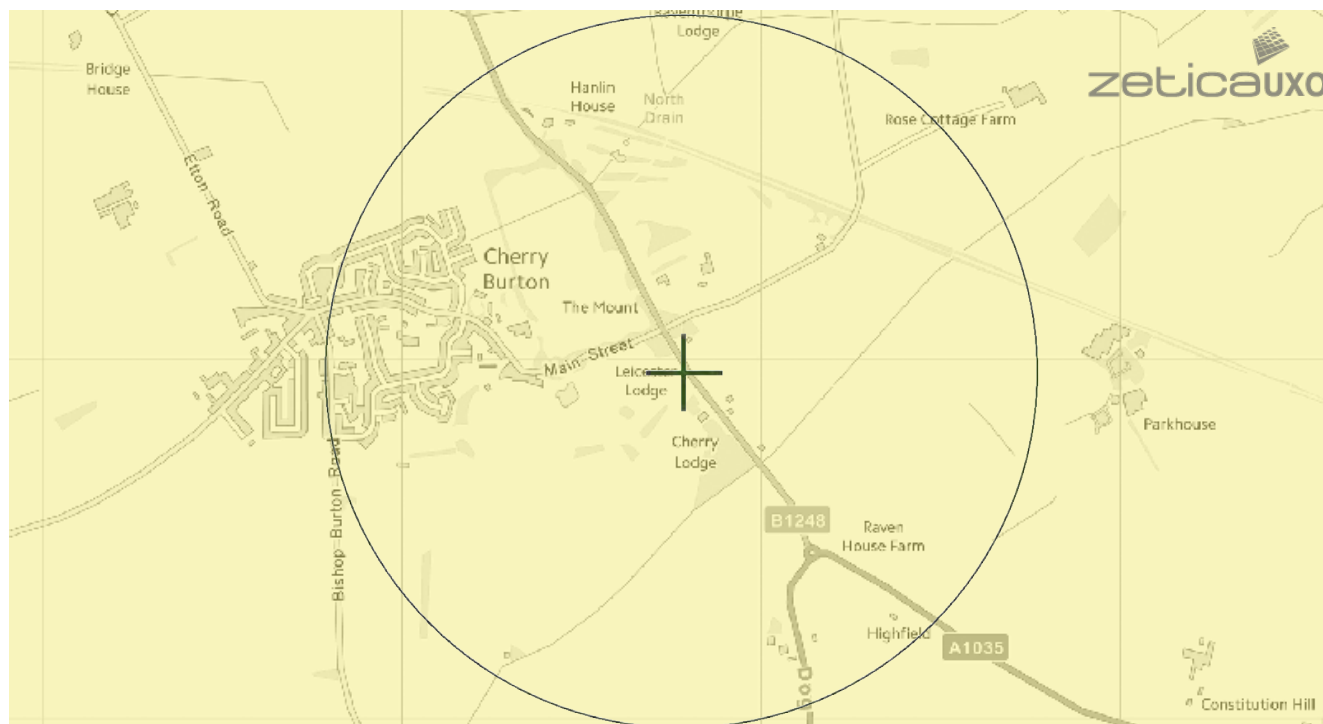
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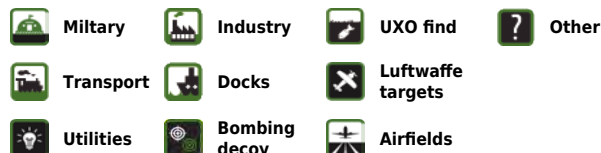
Map Centre: 499748,441969



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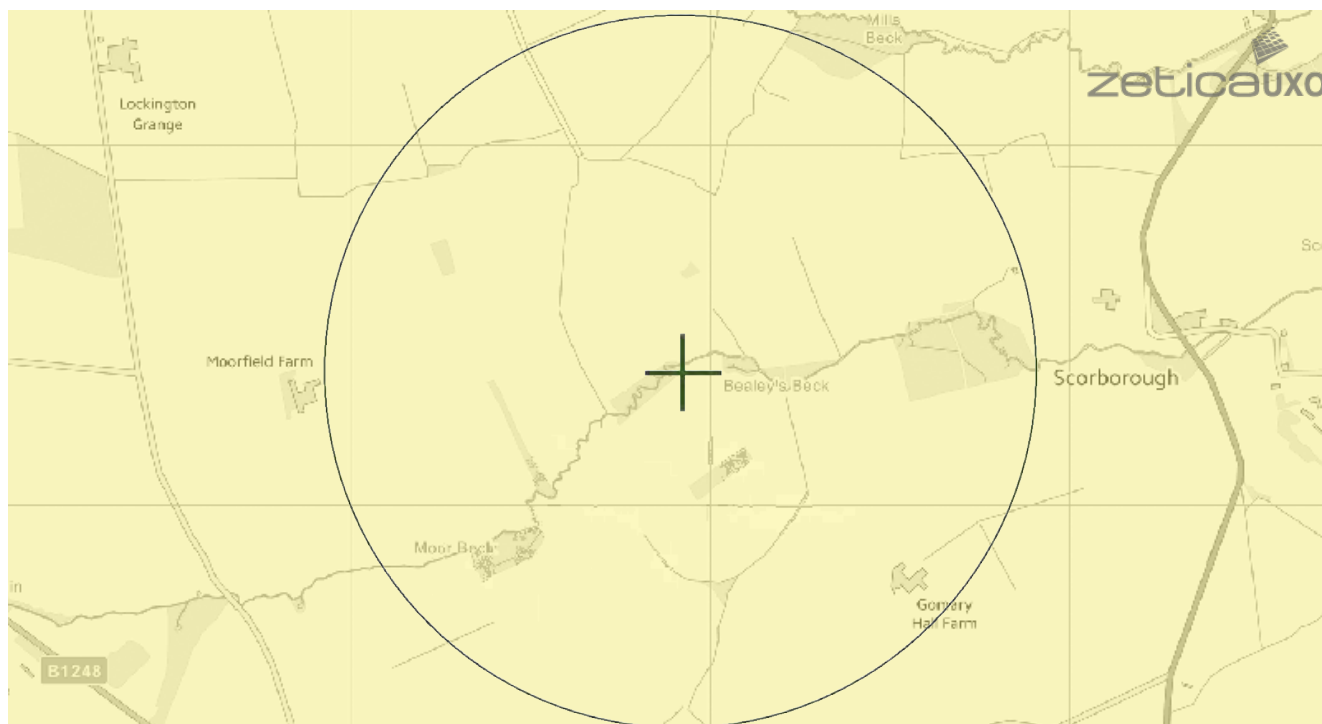
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 499887,445377



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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 500069,439751



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UNEXPLODED BOMB RISK MAP






SITE LOCATION

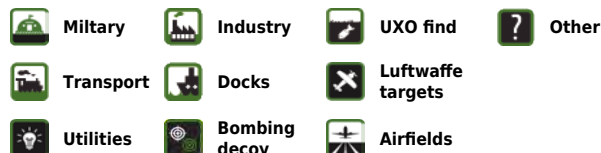
Map Centre: 500911,435686



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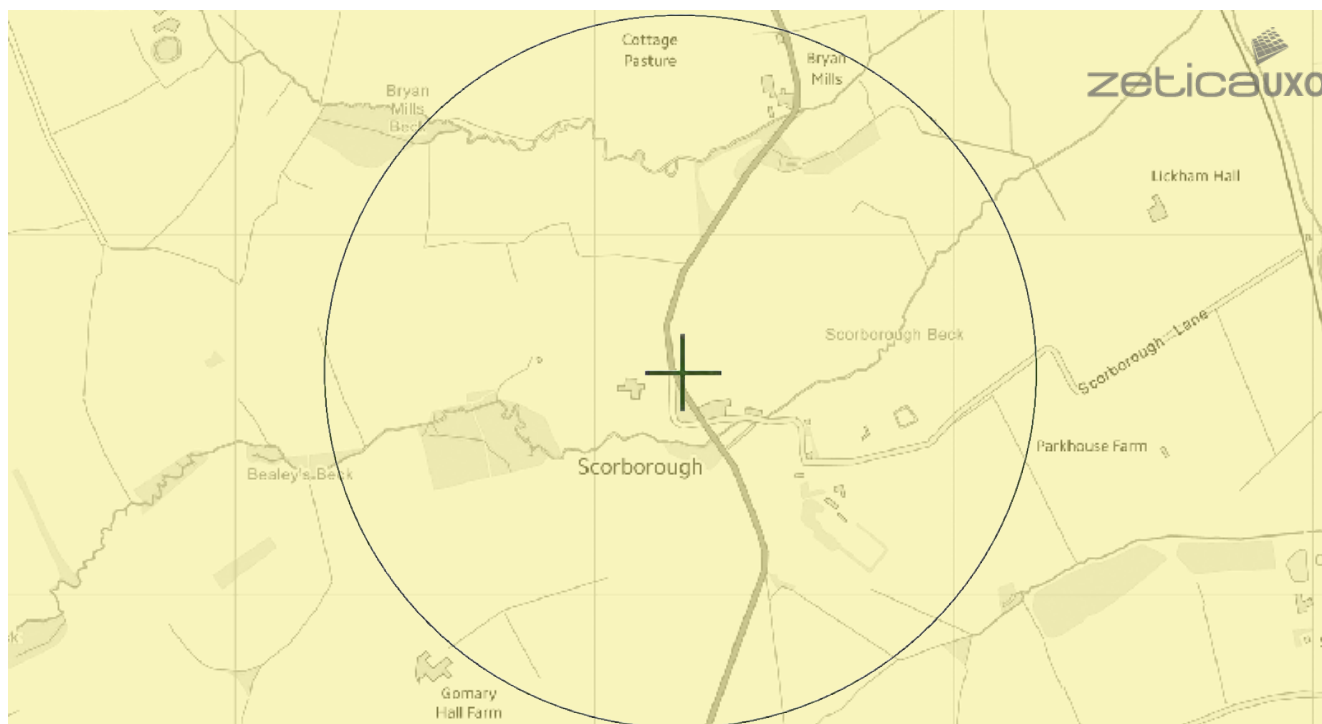
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 501210,445624



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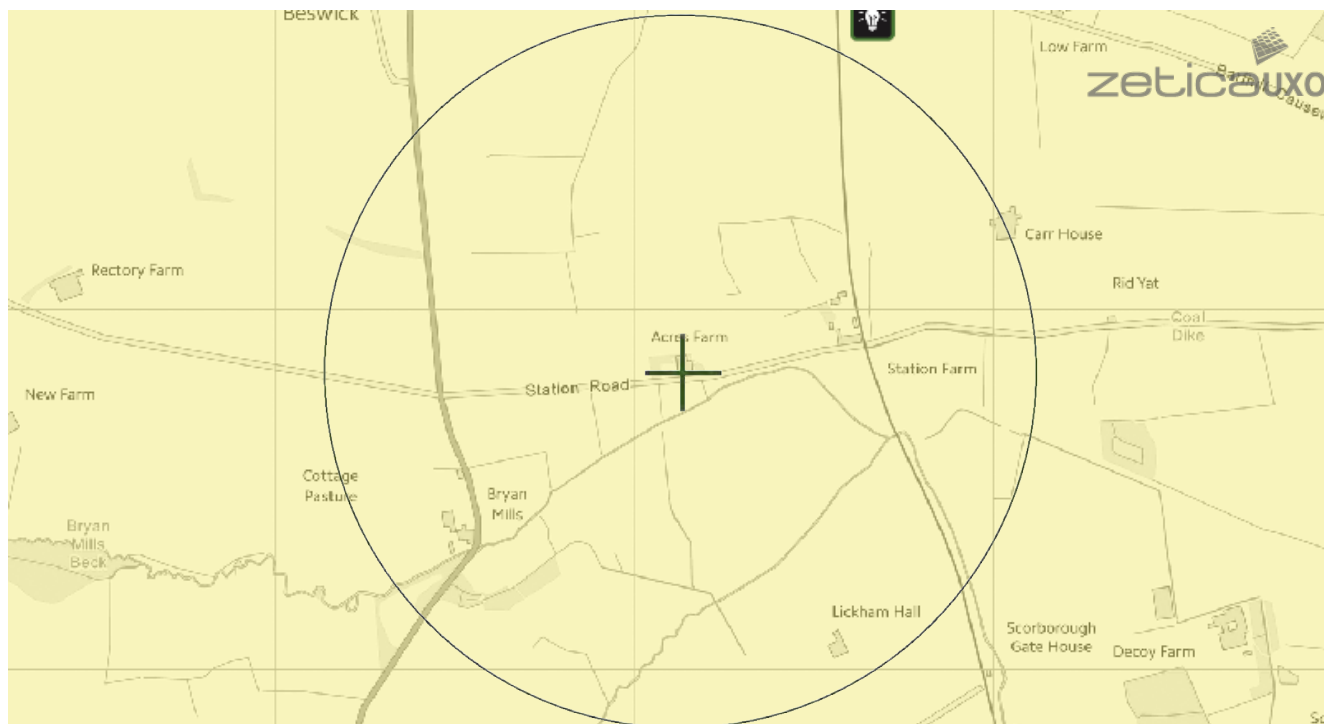
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 502099,446834



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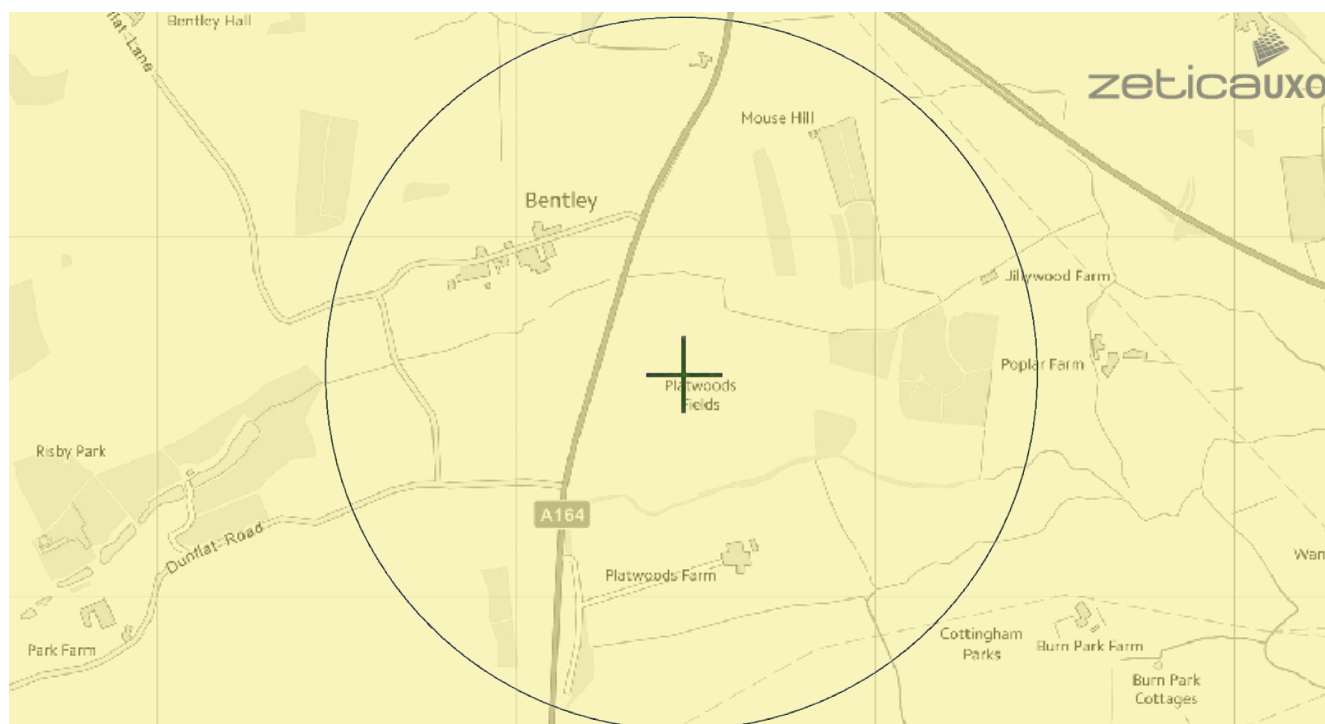
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 502431,435624



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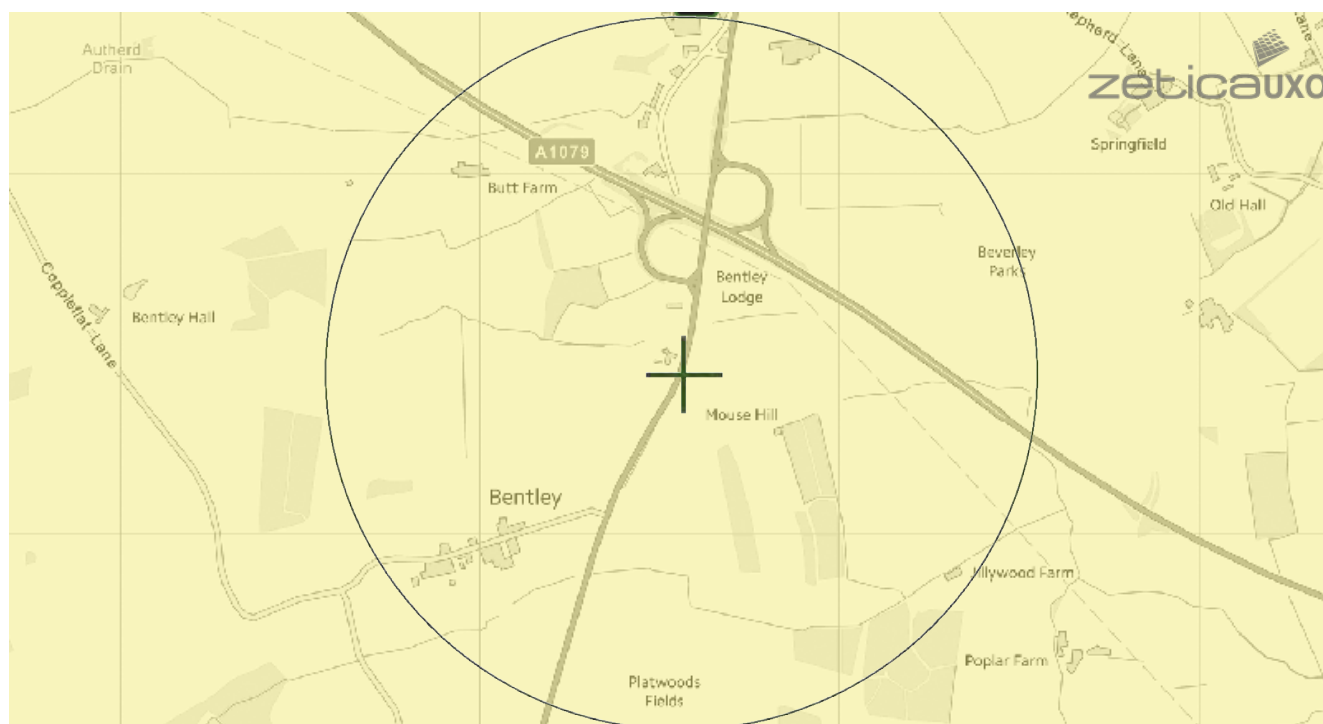
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UNEXPLODED BOMB RISK MAP



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Map Centre: 502531,436448



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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 502905,435648



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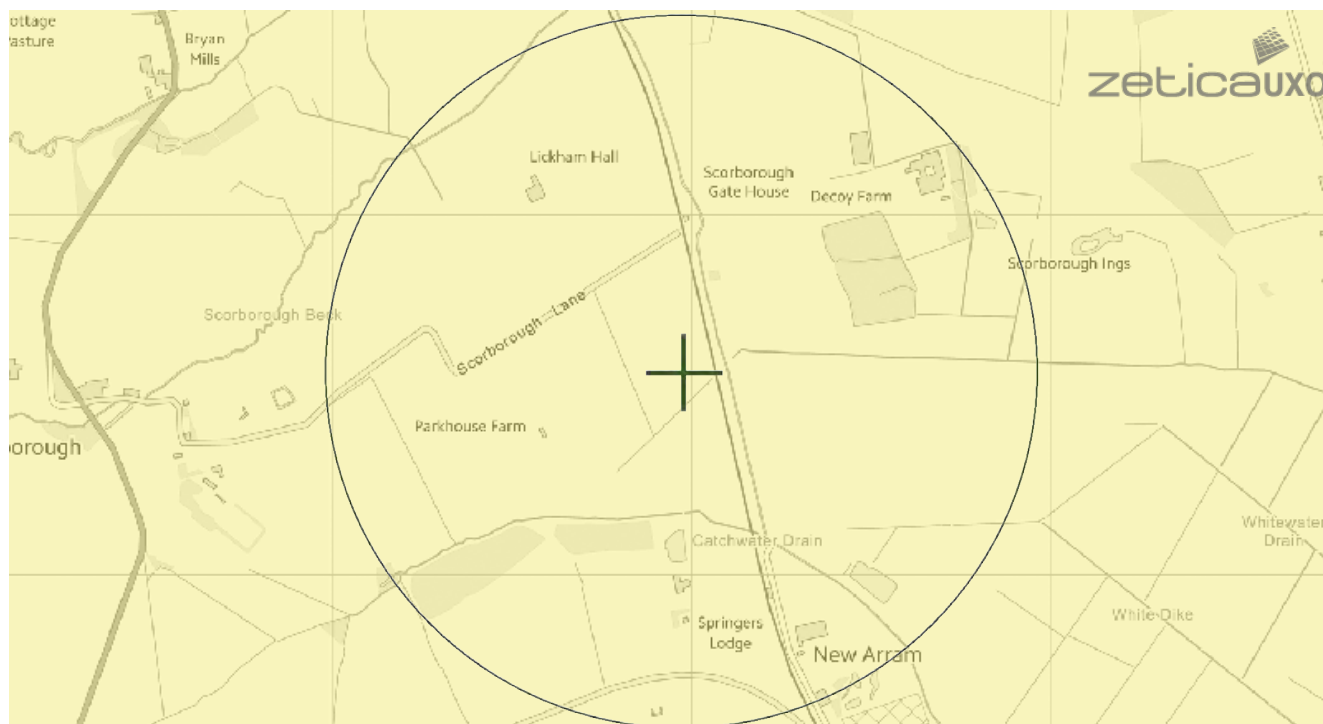
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 502944,445569



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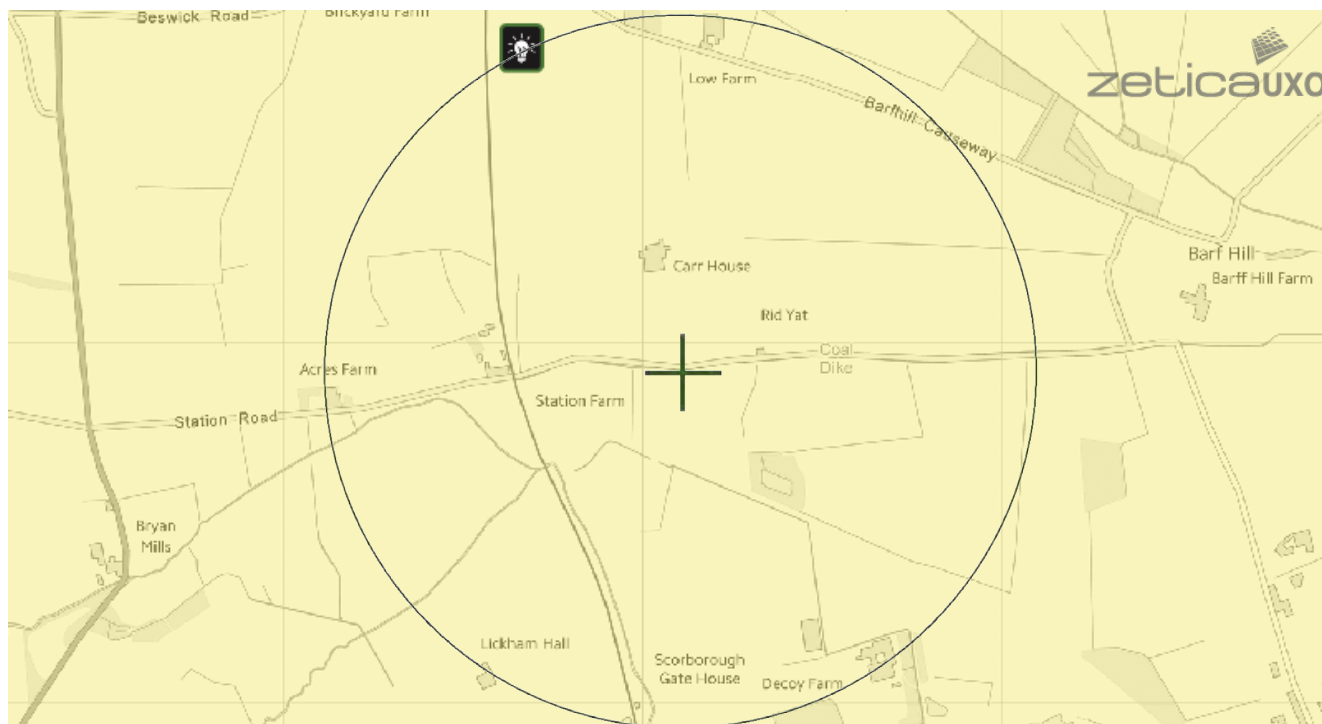
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UNEXPLODED BOMB RISK MAP



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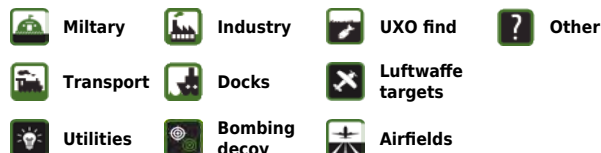
Map Centre: 503077,446922



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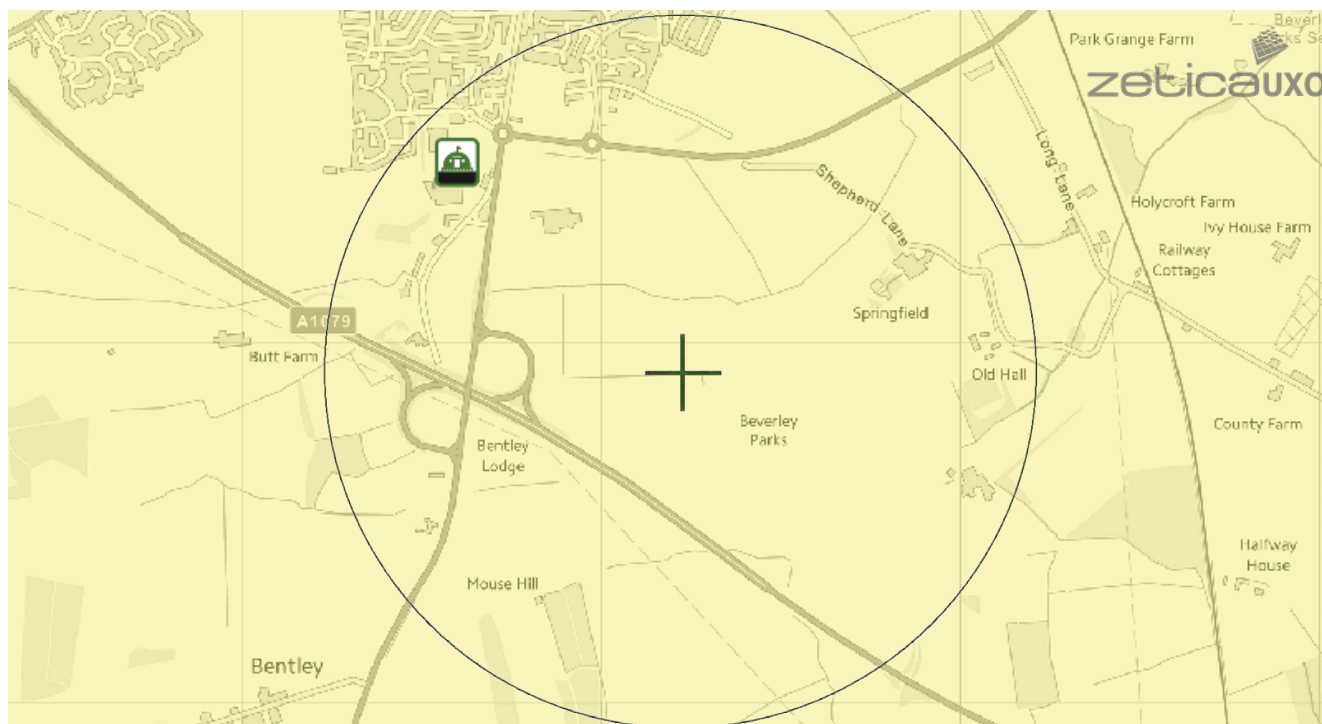
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UNEXPLODED BOMB RISK MAP



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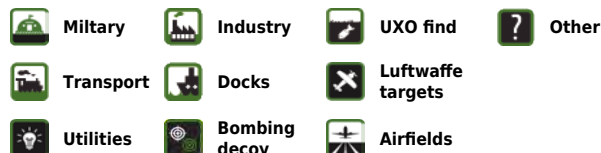
Map Centre: 503191,436923



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UNEXPLODED BOMB RISK MAP



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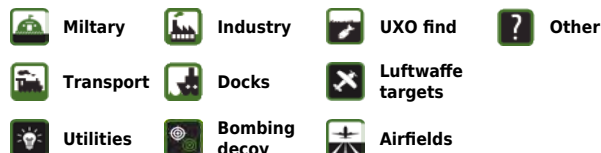
Map Centre: 504090,445327



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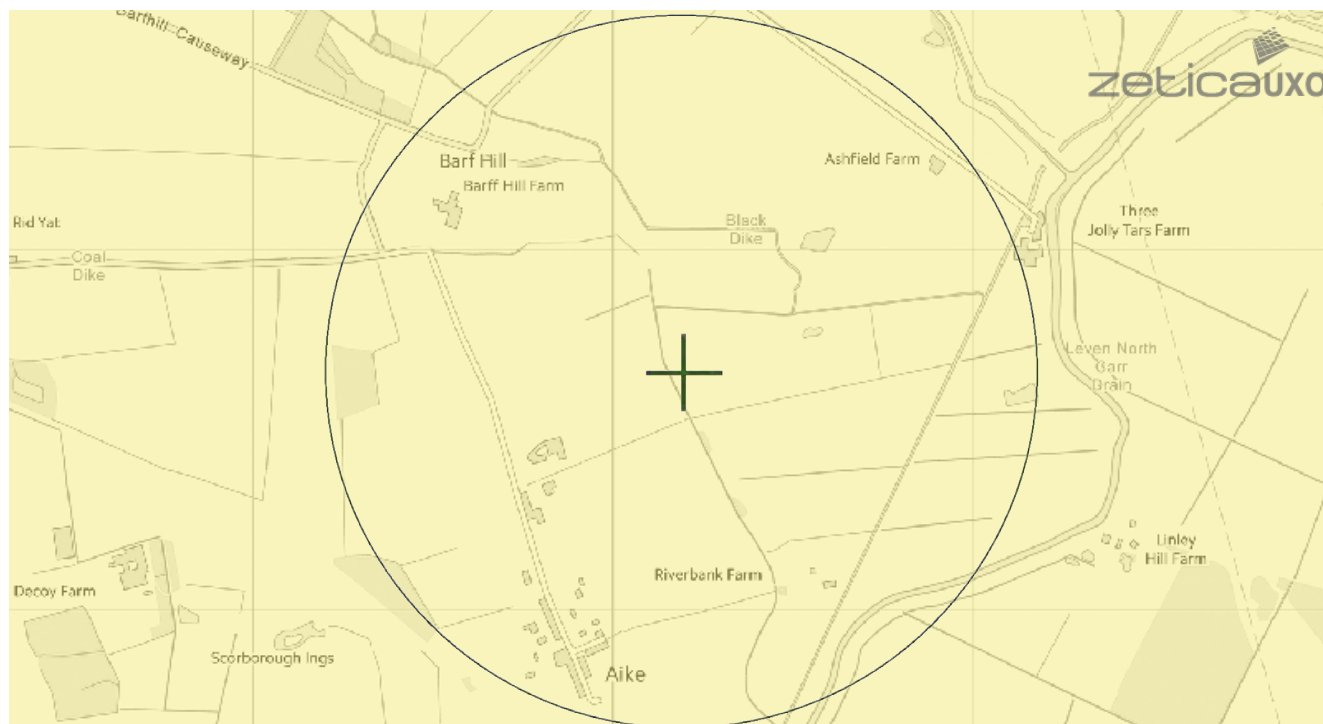
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 505161,446666



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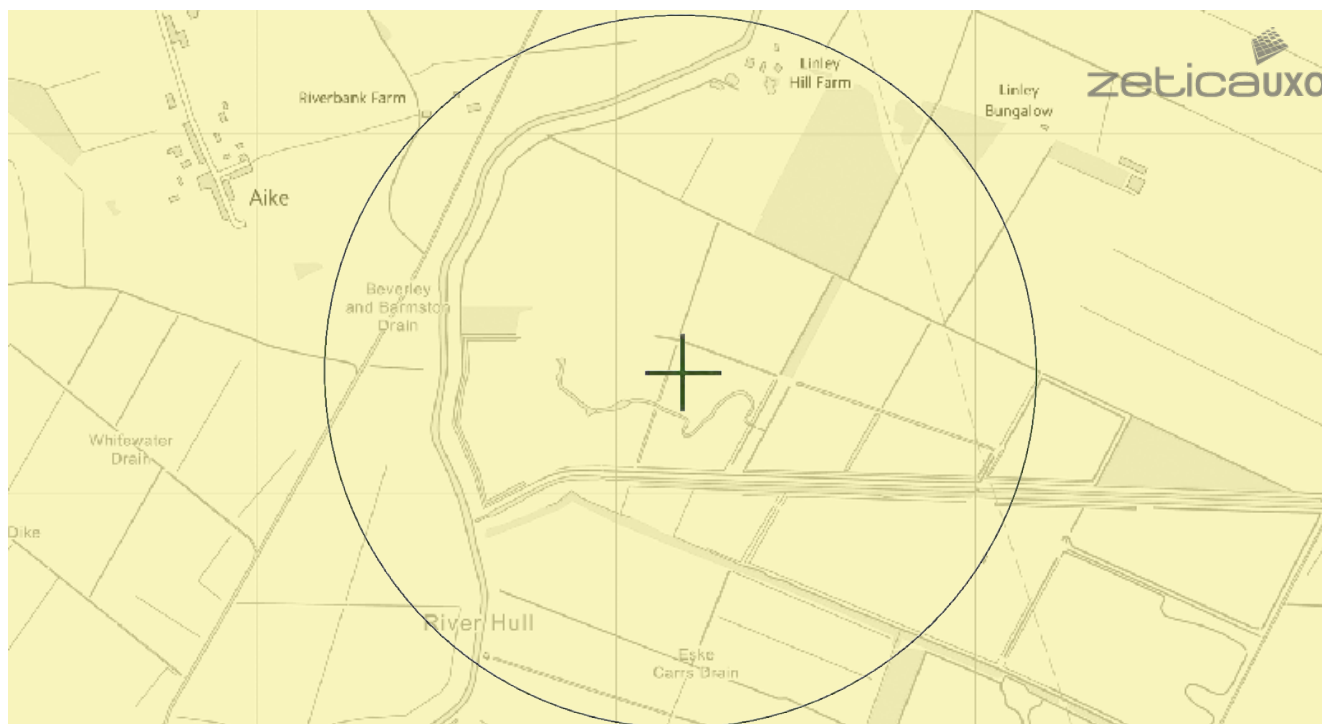
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

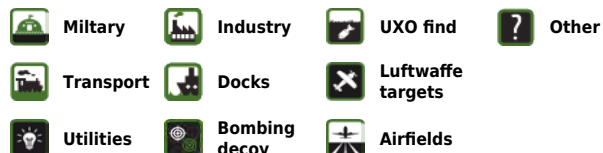
Map Centre: 506149,445342



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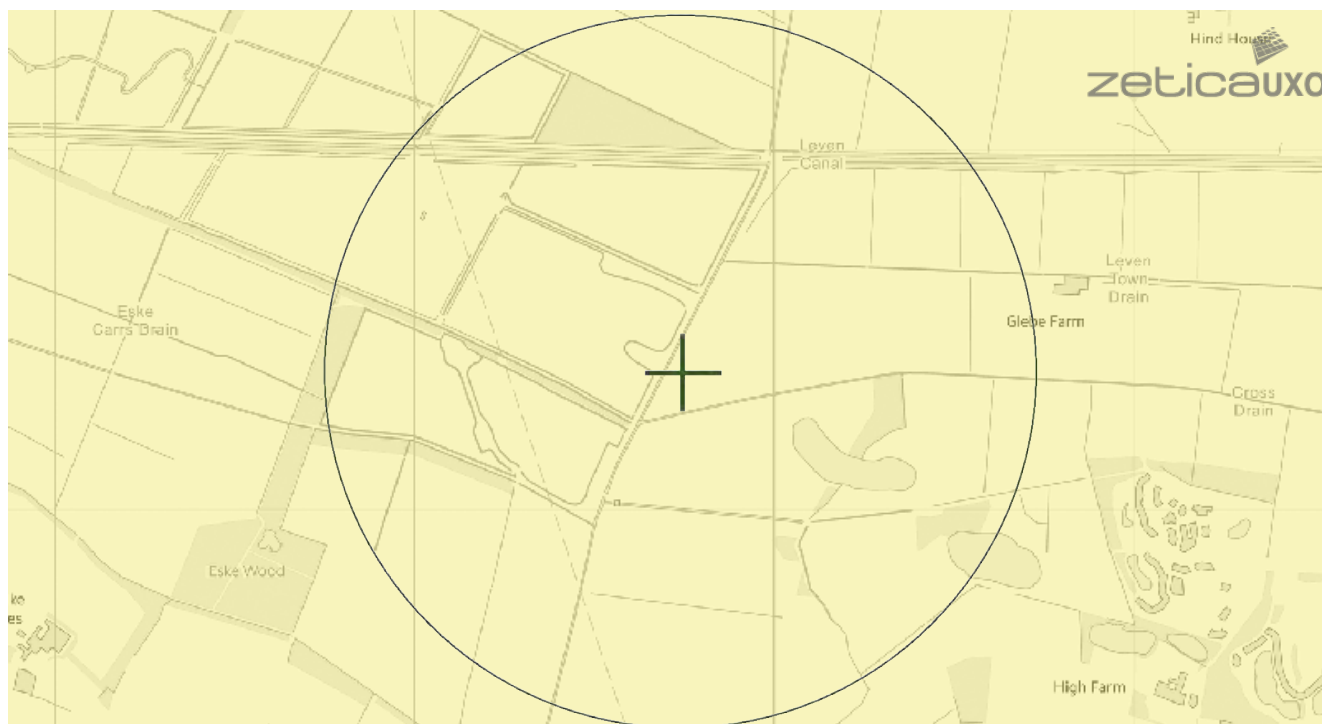
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 507710,444389



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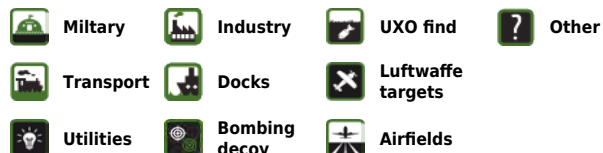
Map Centre: 507742,445366



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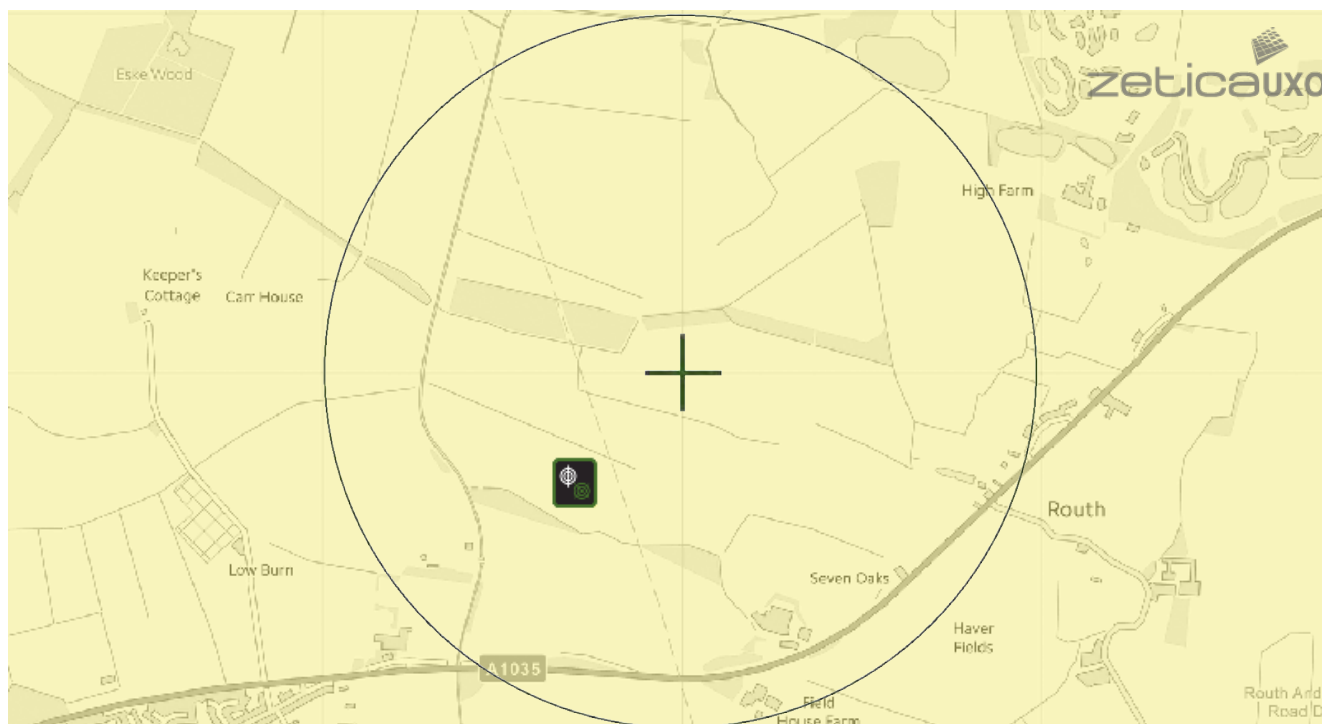
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 507966,443010



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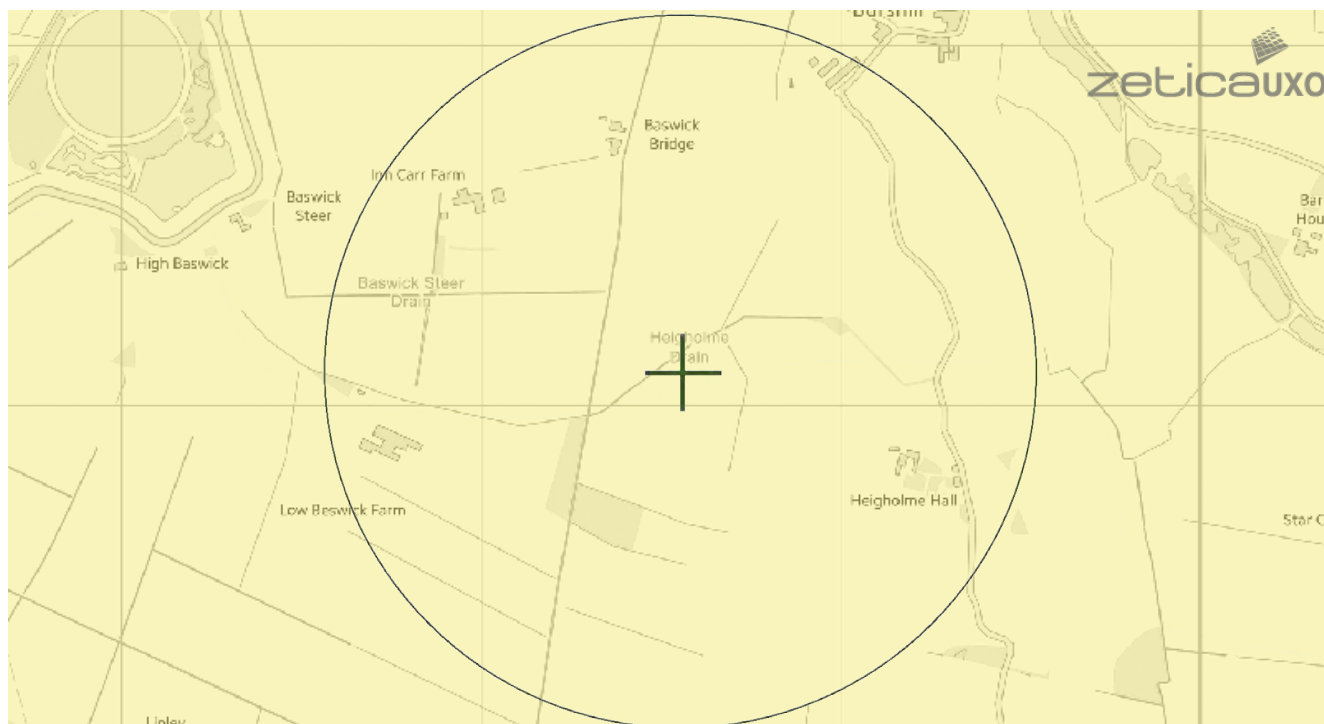
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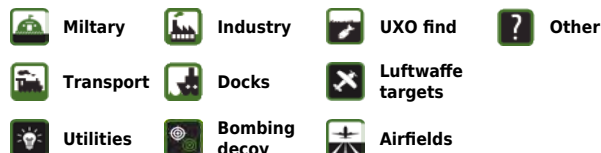
Map Centre: 508524,447100



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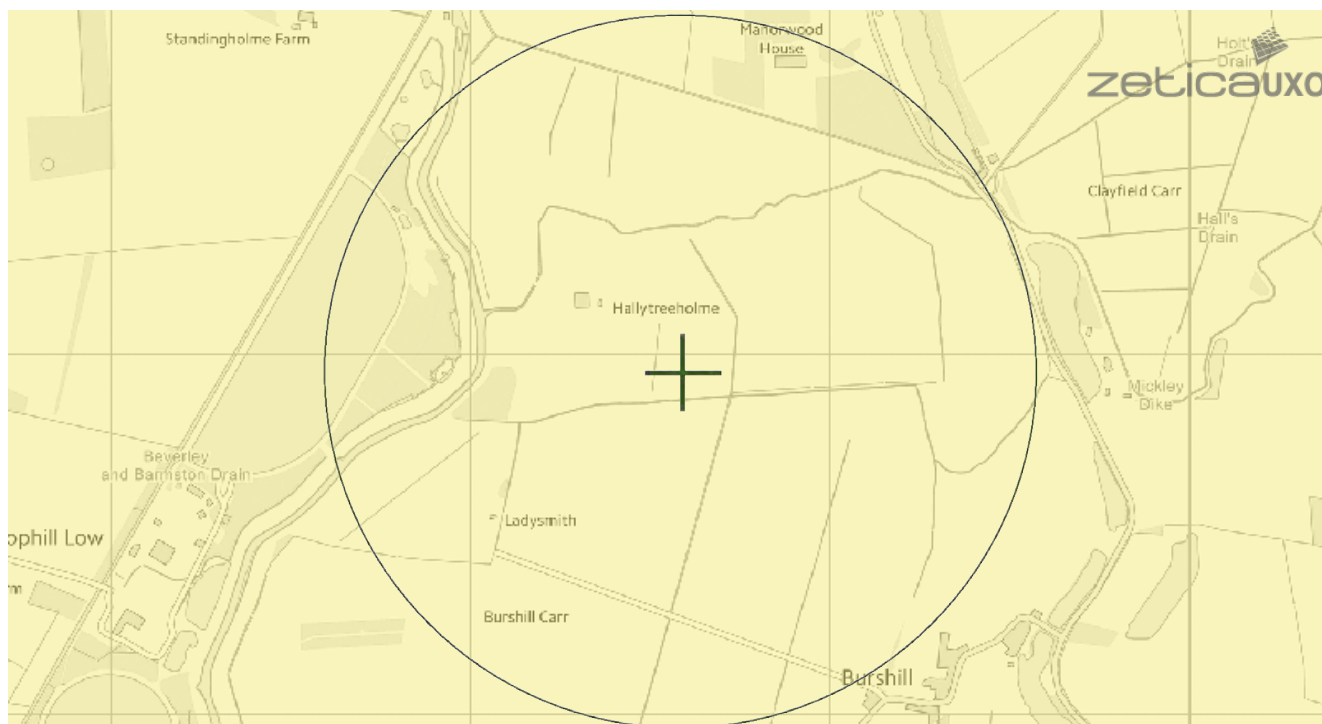
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 508554,448957



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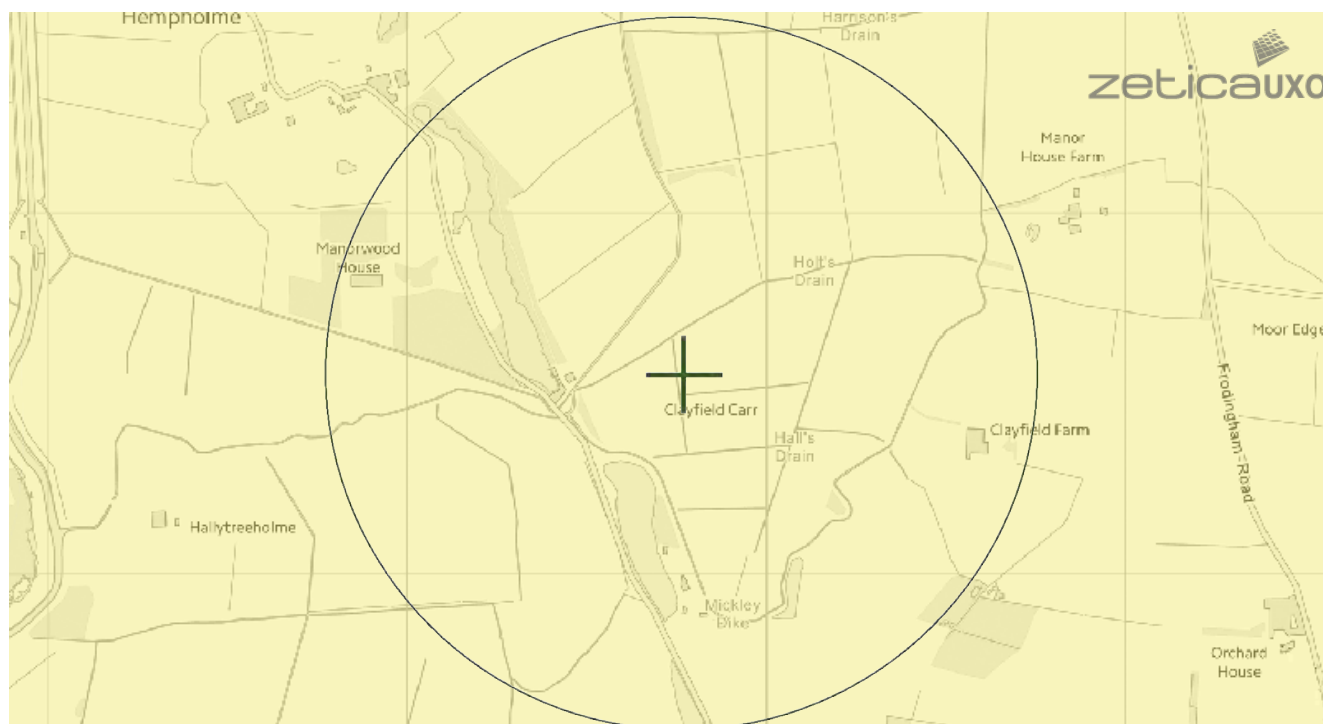
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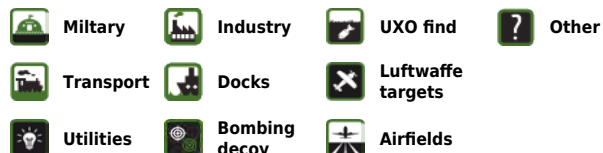
Map Centre: 509734,449559



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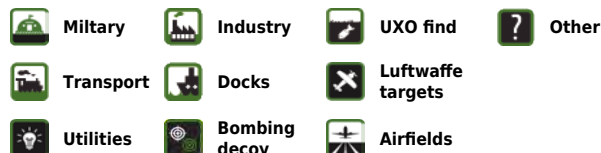
Map Centre: 510717,450567



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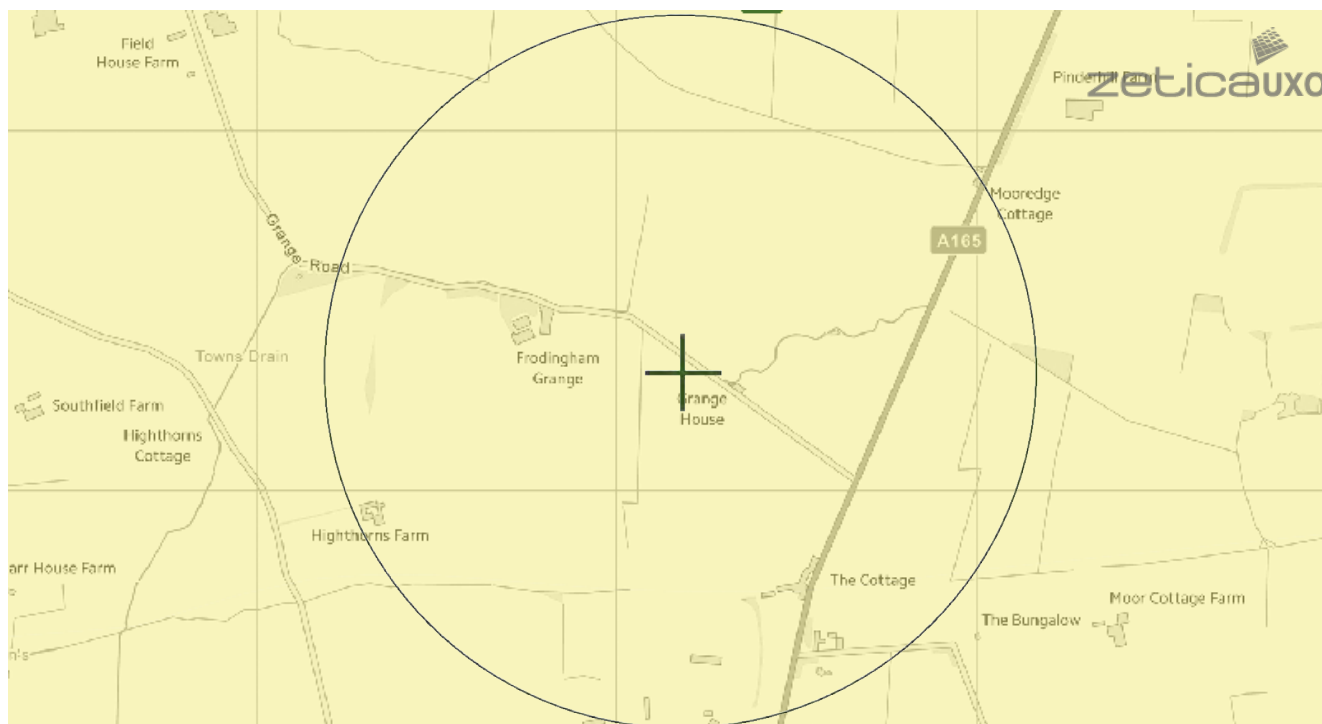
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SITE LOCATION

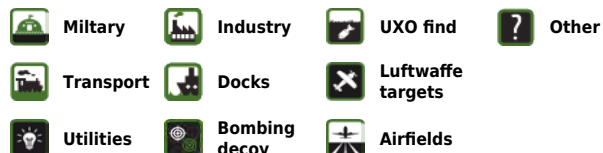
Map Centre: 512148,451336



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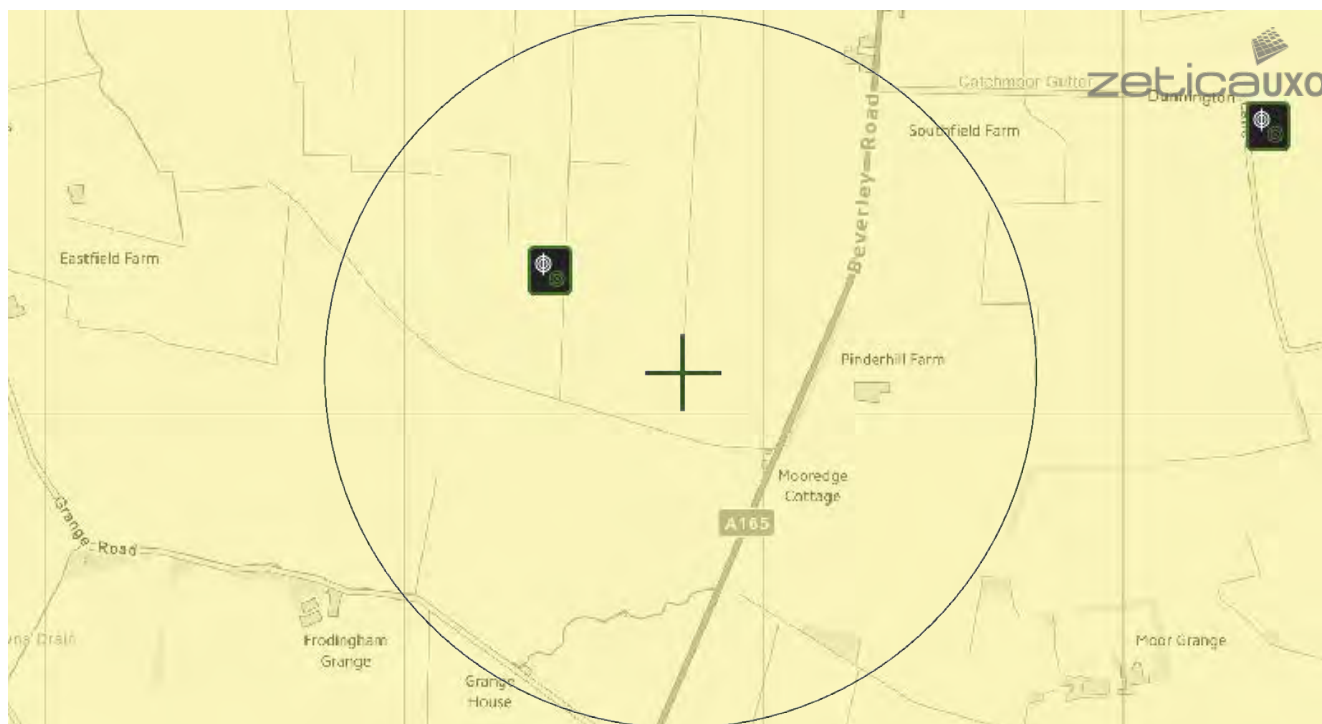
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 512738,452121



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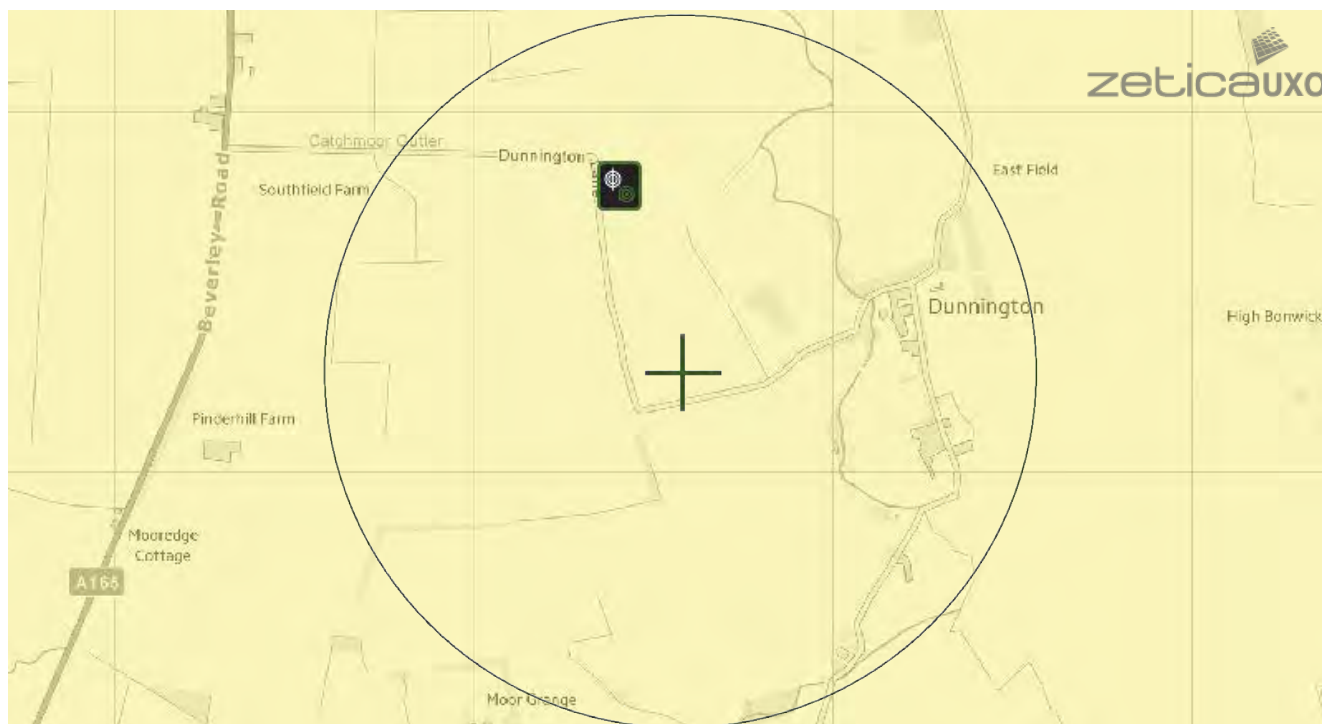
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UNEXPLODED BOMB RISK MAP



SITE LOCATION

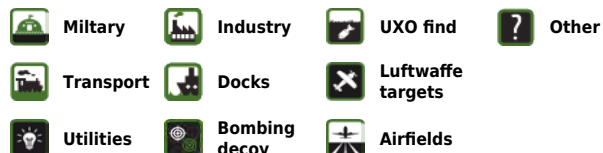
Map Centre: 514546,452285



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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 515865,453540



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UNEXPLODED BOMB RISK MAP



SITE LOCATION

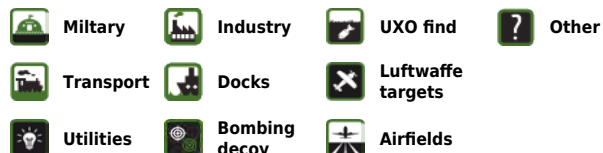
Map Centre: 516904,454612



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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 517322,456877



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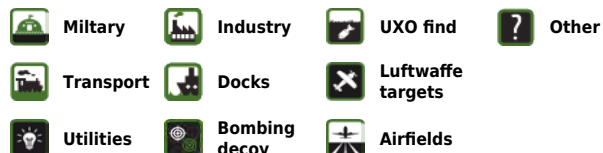
Map Centre: 517648,456220



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UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 517673,456018



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tel: +44 (0) 1993 886682 email: uxo@zetica.com web: www.zeticauxo.com

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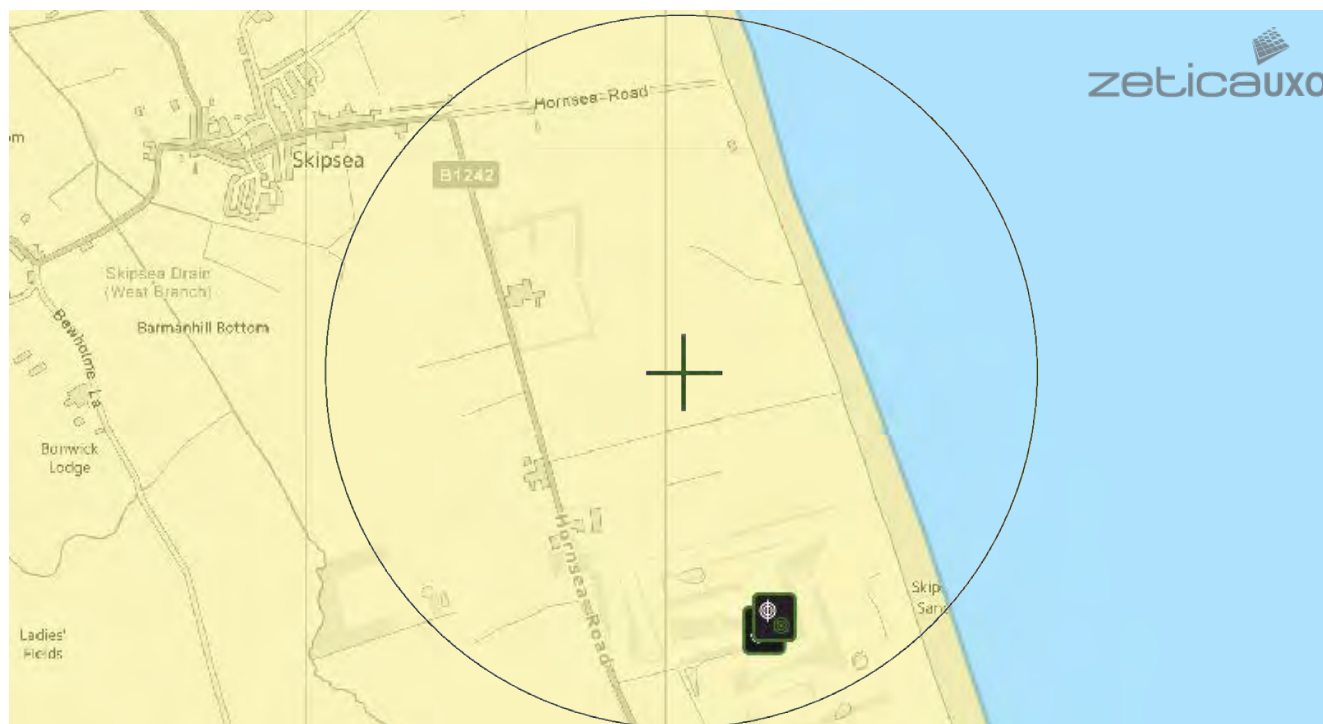
Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgement. The copyright remains with Zetica Ltd.

UNEXPLODED BOMB RISK MAP



SITE LOCATION

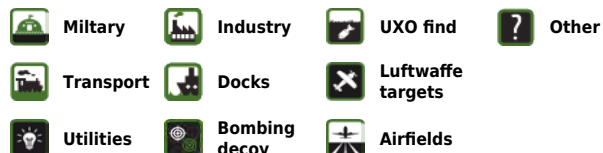
Map Centre: 518014,454383



This map principally indicates a hazard from Unexploded Bombs (UXB) due to WWII bombardment. Other sources of Unexploded Ordnance (UXO) may be present. It should be noted that this map does not represent UXO risk and should not be reported as such when reproduced.

LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.



How to use your Unexploded Bomb (UXB) risk map?

This map indicates the potential for UXBs to be present because of World War Two (WWII) bombing. It can be incorporated into a technical report, such as a Phase 1 Desk Study, or similar document as an indication of the potential for UXO encounter on a Site. Other sources of UXO may also be indicated, although note that these are not comprehensive and more detailed research is required to confirm their presence.

What if my Site is in a moderate or high density area?

We typically recommend that a detailed UXO desk study and risk assessment is undertaken for sites in an area with a moderate or high bombing density. Additionally, if your site is in close proximity to a strategic target, military establishment, airfield or bombing decoy, then [additional detailed research](#) is recommended.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirm that there is a low potential for UXO to be present on your site, then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

If you are unsure whether other sources of UXO may be present, you can request one of our [pre-desk study assessments \(PDSA\)](#) by emailing a site boundary and location to pdsa@zetica.com.

You should never plan site work or undertake a risk assessment using these maps alone. More detail is required, to include an assessment of the likelihood of a source of UXO hazard from other military activity not reflected on these maps.

If I have any questions, who do I contact?

tel: +44 (0) 1993 886682 email: uxo@zetica.com web: www.zeticauxo.com

The information in this UXB risk map is derived from a range of sources and should be used with the [accompanying notes on our website](#).

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgement. The copyright remains with Zetica Ltd.

Annex D BGS Boreholes



Eastern
WS.
Yorkshire
DRA.

RECORD OF WELL

At GRANGE FARM
BISHOP BURTON
Town or Village BEVERLEY
County E. YORKS HU17 8QU

For Institute use only Licence No.

N

SE93/33

72

SE93NE/9

EXACT SITE
OF WELL

Six-inch National Grid sheet and reference SE 99563926

For MR. B. BYASS

State whether owner, tenant, builder, contractor, consultant, etc.

Address (if different from above) AS ABOVE

Level of ground surface above sea level (O.D.) ft (..... m)

DELETE If well top is not at ground level state how far above
below: ft (..... m)

AS SHAFT ft (..... m); diameter ft (..... m);

NECESSARY

HEADINGS (please attach details—dimensions and directions)

BORE ft (..... m); diameter: at top 6" in (..... mm);

at bottom in (..... mm)

Full details of permanent lining tubes (position, length, inner and outer diameters, plain slotted etc.):

9.50 OF 6" I/D PLAIN STEEL CASING

Water struck at depths of NOT KNOWN - DUE TO DRILLING METHOD (..... m) below well top

Rest level of water ft 3.4-7.8 above*
below well top. Suction at ft (..... m)

Yield on 24 hours* test pumping at 9.34 galls per hr (..... l/s) with

depression to ft 3.5-8.0 below well top. Recovery to rest level in NO mins*
hours

TEST
CONDITIONS

Capacity of pump 9.34 g.p.h. (..... l/s)

Date of measurements 21-4-94

DESCRIPTION OF PERMANENT PUMPING EQUIPMENT:

Make and/or type LOWARA BC 30 Motive power ELECTRIC

NORMAL
CONDITIONS

Capacity 1000 galls (4.5 m³) per hour. Suction at ft (..... m)

below well top. Amount pumped galls (..... m³) per day. Estimated

consumption galls (140 m³) per week

Well made by MALMAC CONSTRUCTION LTD Date of sinking 11-4-94

ADDITIONAL NOTES ANALYSIS (please attach copy if available)

LOG OF
STRATA
OVERLEAF

INSTITUTE OF GEOLOGICAL SCIENCES
HYDROGEOLOGY UNIT
EXHIBITION ROAD
LONDON SW7 2DE

BGS 2494 10 000 7/79

Received from Malmar Construction
Date 13.10.94
Observation well
Recorder
ER log
Site marked on
1" map
6" map—Grid Sheet
(use symbol)
Copy to
Date



For Institute use only

GEOLOGICAL
CLASSIFICATION

NATURE OF STRATA

If measurements start below ground surface, state how far.

THICKNESS

Feet Inches Metres

DEPTH

Feet Inches Metres

FILL

0.30

0.29

CLAY BROWN

1.80

2.10

CLAY SANDY SOFT BROWN

1.50

3.60

CLAY BROWN

1.90

5.50

CHALK SOFT WHITE

0.80

6.30

CHALK WHITE

64.70

71.00

[illegible]



Location plan

Water level data		
Date	Depth to W.L.	Pumping rate
21-4-94	35.80m (61g) at 934gph	

Remarks

Analysis in mg/l
Date of Sample:
pH
CO ₂
Alkalinity
Total Hardness
Total Solids
Chlorides
Nitrates
Nitrites
NH ₃
Fe
Mn
Ca
Na
Mg
SO ₄



Eastern
WS.
Yorkshire
NEA.

RECORD OF WELL

At GRANGE FARM
BISHOP BURTON
Town or Village BEVERLEY
County E. YORKS HU17 8PU

For Institute use only Licence No.

N

SE93/33

72

SE93NE

EXACT SITE

Six-inch National Grid sheet and reference SE99563926

OF WELL

For MR. B. RYAN

State whether owner, tenant, builder, contractor, consultant, etc.:

Address (if different from above) AS ABOVE

Level of ground surface above sea level (O.D.) ft (..... m)

*DELETE

If well top is not at ground level state how far above* ft (..... m)
below:

AS

SHAFT ft (..... m); diameter ft (..... m);

NECESSARY

HEADINGS (please attach details—dimensions and directions)

BORE ft (..... m); diameter: at top 6" in (..... mm);

at bottom in (..... mm)

Full details of permanent lining tubes (position, length, inner and outer diameters, plain slotted etc.):

9.50 OF 6" ID PLAIN STEEL CASING

Water struck at depths of NOT KNOWN - DUE TO DRILLING METHOD below well top

Rest level of water ft (..... m) above* well top. Suction at 62 ft (..... m)
below

TEST

Yield on 24 hours* test pumping at 934 galls per hr (..... l/s) with

CONDITIONS

depression to ft (..... m) below well top. Recovery to rest level in NO mins*
hours

Capacity of pump 934 g.p.h. (..... l/s)

Date of measurements 21-4-94

DESCRIPTION OF PERMANENT PUMPING EQUIPMENT:

NORMAL

Make and/or type LOWARA BC 30 Motive power ELECTRIC

CONDITIONS

Capacity 1000 galls (..... m³) per hour. Suction at ft (..... m)

below well top. Amount pumped 20 galls (..... m³) per day. Estimated

consumption 140 galls (..... m³) per week

Well made by HALMAC CONSTRUCTION LTD Date of sinking 11-4-94

ADDITIONAL NOTES ANALYSIS (please attach copy if available)

LOG OF

STRATA

OVERLEAF

INSTITUTE OF GEOLOGICAL SCIENCES
HYDROGEOLOGY UNIT
EXHIBITION ROAD
LONDON SW7 2DE

IGS 2494 10 000 7/79

Received from Halmar Construction
Date 13.10.94
Observation well
Recorder
ER log
Site marked on
1" map
6" map—Grid Sheet
(use symbol)
Copy to
Date



For Institute use only

GEOLOGICAL
CLASSIFICATION

NATURE OF STRATA

If measurements start below ground surface, state how far.

THICKNESS

DEPTH

Feet

Inches

Metres

Feet

Inches

Metres

FILL

0.30

0.30

CLAY BROWN

1.80

2.10

CLAY SANDY BROWN

1.50

3.60

CLAY BROWN

1.90

5.50

CHALK LIGHT WHITE

0.80

6.30

CHALK WHITE

64.70

71.00



M 107/155

SE93/33

MCL

Malmac Construction Ltd

Unit 18C, Nortonthorpe Mills, Scissett, Huddersfield, West Yorkshire HD8 9LA
Tel: 0484 865537

Specialists in bore hole refurbishment, pumping, pressurisation and filtration systems.

TEST PUMPING RECORD

SHEET NO:1 OF 4..... DATE: 21-4-94.....
CLIENT: MR. B. BYASS..... BORE/WELL NAME GRANGE FARM.....
BORE/WELL Ø TOP/BOTTOM ...6 INCH:..... TOTAL DEPTH 71.00m.
STANDING W/L ...34.78m..... TYPE OF WEIR ...FLOWMETER.....
TYPE OF PUMP ...ELECT. SUB..... LENGTH MAX Ø
RISING MAIN LENGTH I.D. SIZE FOOT VALVE YES/NO
PLANT PUMP NO: ALTERNATORkva MAIN SUPPLY YES.....

DATUM 0-60 ABOVE GROUND LEVEL REF. B 748

21/4/94

TIME	WEIR HEAD	Q GPH	WATER LEVEL	METER READING	OBSERVATION B/H MOUNT PLEASANT FARM TA 006 401
10 - 00			34.78	01941.530	19-4-94 24.30
10 - 01			35.54		21-4-94 24.52
10 - 02			35.61		
10 - 03			35.615		NO FURTHER
10 - 04			35.615		READINGS TAKEN
10 - 05			35.62		ON INSTRUCTION
10 - 06			35.62		D. MAUDSEY NRA.
10 - 07			35.62		
10 - 08			35.62		
10 - 09			35.62		
10 - 10			35.62		
10 - 15			35.625		
10 - 20			35.625		
10 - 25			35.625		
10 - 30			35.625		
10 - 35			35.625		
10 - 40			35.625		



MAIMAC CONSTRUCTION LTD.

TEST PUMPING RECORD

SE93/33

SHEET NO:2 OF 4..... DATE:
CLIENT: BORE/WELL NAME ..FRANGE..FARM.....
BORE/WELL Ø TOP/BOTTOM TOTAL DEPTH
STANDING W/L TYPE OF WEIR
TYPE OF PUMP LENGTH MAX Ø
RISING MAIN LENGTH I.D. SIZE FOOT VALVE YES/NO
PLANT PUMP NO: ALTERNATORkva MAIN SUPPLY

DATE	TIME	Q GPH	WATER LEVEL	METER READING	Q(m ³)	REMARKS
21/4/94	10.45		35.62.5			
	11.00		35.62.5			
	11.15		35.62.5			
	11.30		35.63			
	11.45		35.63.5			
	12.00		35.63.5	01950.190		
	13.00		35.64	01954.284		
	14.00		35.64	01958.507		
	15.00		35.64.5	01962.803		
	16.00		35.66	01967.077		
	17.00		35.67	01971.264		
	18.00		35.68	01975.580		
	19.00		35.69	01979.850		
	20.00		35.70	01984.192		
22/4/94	07.00		35.75.5	02030.768		
	08.00		35.77	02035.385		
	09.00		35.79	02039.143		
	10.00		35.80	02043.399		
QUANTITY	2043.399	—	1941.530	= 101.869 / 24 HRS.		
				= 4.24 m ³ / hr		
				= 934 gal / hr		

NOTE: CLOSED VALVE PRESSURE TO BE RECORDED AT COMMENCE AND COMPLETION OF TEST



MAIMAC CONSTRUCTION LTD.

TEST PUMPING RECORD

SE93/33

SHEET NO: 3 OF 4 DATE:

CLIENT: BORE/WELL NAME ..GRANSE FARM.....

BORE/WELL Ø TOP/BOTTOM TOTAL DEPTH

STANDING W/L TYPE OF WEIR

TYPE OF PUMP LENGTH MAX Ø

RISING MAIN LENGTH I.D. SIZE FOOT VALVE YES/NO

PLANT PUMP NO: ALTERNATORkva MAIN SUPPLY

RECOVERY

DATE	TIME	Q GPH	WATER LEVEL	AMPS	VOLTS	REMAI
22/4/94	10-00		35.80			
	10-01		34.95			
	10-02		34.93			
	10-03		34.925			
	10-04		34.925			
	10-05		34.925			
	10-06		34.925			
	10-07		34.925			
	10-08		34.925			
	10-09		34.925			
	10-10		34.925			
	10-15		34.925			
	10-20		34.925			
	10-25		34.925			
	10-30		34.925			
	10-35		34.925			
	10-40		34.925			
	10-45		34.925			
	11-00		34.925			
	11-15		34.925			
	11-30		34.925			
	11-45		34.925			
	12-00		34.93			

NOTE: CLOSED VALVE PRESSURE TO BE RECORDED AT COMMENCE AND COMPLETION OF TEST

MALMAC CONSTRUCTION LTD.

TEST PUMPING RECORD

SE93/33

SHEET NO: 4 of 4

DATE:

CLIENT:

BORE/WELL NAME .SRANSE..FARM.....

BORE/WELL Ø TOP/BOTTOM

TOTAL DEPTH

STANDING W/L

TYPE OF WEIR

TYPE OF PUMP

LENGTH MAX Ø

RISING MAIN LENGTH

I.D. SIZE FOOT VALVE YES/NO

PLANT PUMP NO:

ALTERNATORkva MAIN SUPPLY

RECOVERY

[illegible]

NOTE: CLOSED VALVE PRESSURE TO BE RECORDED AT COMMENCE AND COMPLETION OF TEST



①

RECORD OF WELL (SHAFT OR BORE)

03643566

For Survey use only

TA03 NW/3
2/459

EXACT SITE
OF WELL

At **Poplar Farm Beverley Parks.**

Beverley

Licence No.

Town or Village

County **East Yorkshire**

Six-inch quarter sheet **CCXXV.4 NE/E ERY**

For State whether owner, tenant, builder,
contractor, consultant, etc.:—

Address (if different from above)

Level of ground surface *slotted on 50' contour*
above sea-level (O.D.) *15 m* ft.

If well-top is not at ground level, state how far { above: .. ft.
below: .. ft.

SHAFT .. ft.; diameter .. ft.; Full details of headings (dimensions and directions)

BORE *(33.53m)* **110** ft.; diameter of bore: at top **4** ins.; at bottom **4** ins.

Full details of permanent lining tubes (position, length, diameter, plain, slotted etc.)

60ft of 4ins Lining Tube

Water struck at depths of .. ft. below well-top.

TEST
CONDITIONS

Rest level of water **13** ft. *(3.96m)* above well-top. Suction at .. ft. Yield on .. hours' test
below .. days'

pumping at .. galls. per .. with depression to .. ft. below well-top.

Recovery to rest-level in .. mins. Capacity of pump .. g.p.h. Date of measurements ..
hours

DESCRIPTION OF PERMANENT PUMPING EQUIPMENT:

NORMAL
CONDITIONS

Make and/or type .. Motive power ..

Capacity .. gallons per hour. Suction at .. ft.

Amount pumped .. galls. per day. Estimated consumption .. galls. per week.

Well made by **Sam Jackson Walkergate Beverley** Date of well **1958**

Information from ..

ADDITIONAL NOTES

ANALYSIS (please attach copy if available)

Sited by O on 6" map. Yorks. 225. NE/E. 16.10.58. RB.

LOG OF STRATA OVERLEAF.

GEOLOGICAL SURVEY AND MUSEUM, SOUTH KENSINGTON, LONDON, S.W.7.	Section 6.	Date Received <i>2/10/58.</i>	1" O.S. Map No.	Site marked on 1" Map <i>0</i>	(use symbol) on 6" Map <i>0</i>
----------------------------------------------------------------------	------------	-------------------------------------	--------------------	--------------------------------------	---------------------------------------

[illegible]



Grid Ref. 036356 TA 03	I.G.S. Ref. 92/459	Y.W.A. Licence No. 3 App. No.
Aquifer: Chalk	MD = 10.92 C = 10.21	Details of Strata:
Address of Site: Poplar Farm Bourley Park Beverley		Top soil 2-0
Owner:		Yellow clay 20-0 22-0
		Gravel 13-0 35-0
		Chalk 75-0 110-0
Borehole Depth: 110'	Dia.: 4" top 4" bottom	
Casings: 6" 4" tube Linet 4		
Jackson 1958		



BEST WATER LEVELS			LOCATION PLAN:	Analysis in mg/l.	
Date	Depth	O.D.		Date of Sample:	
11/78	11.80m		<div>Remarks: OK for W/L</div>	pH	
				CO ₂	
				Alkalinity	
				Total Hardness	
				Total Solids	
				Chlorides	
				Nitrates	
				Nitrites	
				NH ₃	
				Fe	
				Mn	
				Ca	
				Na	
				Mg	
				SO ₄	



NGRC
BOREHOLE RECORDS
ADJUSTMENT FORM

QUARTER SHEET

TA03NW

BH REGISTRATION NUMBER

120 - 190

RECORDS ENTERED AND HELD BY WALLINGFORD

BH REGISTRATION NUMBER(S)



①

RECORD OF WELL (SHAFT OR BORE)

For Survey use only

N. 5783

72/TA03/212
4598

EXACT SITE
OF WELL

At Poplar Farm Beverley Parks

Town or Village Beverley
TA03NW 0363 3566
0364 3560

Licence No.

County East Yorkshire

Six-inch quarter sheet COXKV.4 ERY

For State whether owner, tenant, builder,
contractor, consultant, etc.:-

Address (if different from above)

Level of ground surface

above sea-level (O.D.) ft.

If well-top is not at ground level, state how far above:
below: ft.

SHAFT ft.; diameter ft.; Full details of headings (dimensions and directions)

BORE 110 ft.; diameter of bore: at top 4 ins.; at bottom 4 ins.

Full details of permanent lining tubes (position, length, diameter, plain, slotted etc.)

60ft of 4ins Lining Tube

Water struck at depths of ft. below well-top.

TEST
CONDITIONS

Rest level of water 15 ft. above well-top. Suction at ft. Yield on hours' test
below days' test
pumping at galls. per with depression to ft. below well-top.

Recovery to rest-level in mins. Capacity of pump g.p.h. Date of measurements hours

DESCRIPTION OF PERMANENT PUMPING EQUIPMENT:

NORMAL
CONDITIONS

Make and/or type Motive power

Capacity gallons per hour. Suction at ft.

Amount pumped galls. per day. Estimated consumption galls. per week.

Well made by Sam Jackson Walkergate Beverley Date of well 1958

Information from

ADDITIONAL NOTES

ANALYSIS (please attach copy if available)

Sited by @ on 6" map. Yorks. 225 NE/E. 16.10.58. RB.

LOG OF STRATA OVERLEAF.

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

Section 6.

Date
Received

2/10/58.

1" O.S. Map
No.

Site marked
on 1" Map

⊙

(use symbol)
on 6" Map

⊙

8/256

Visited. Now accessible via Long Lane, Bawtry.
Do not attempt road from Bawtry - Skidby main
road as it passes over an drainage Tilly wood farm
and it is necessary to cross four fields and a deep
drainage ditch on foot.

Being by Jackson was put down a
considerable distance from the site of the old
farm well and is under iron manhole cover
set in concrete plinth near "orchard". Section c. 55
p.w.c. 28ft 6 ins. b.g.l. Top of tubes c. 18 ins. a.g.l.

- ✓ Sample taken. *Kerr 19.10.0*
- ✓ Conductivity of sample 470 micromhos *Kerr*
- ✓ Sites on Yore 225 NE/E. *Kerr 5.12.6*

42/450



72/459

TA03/212

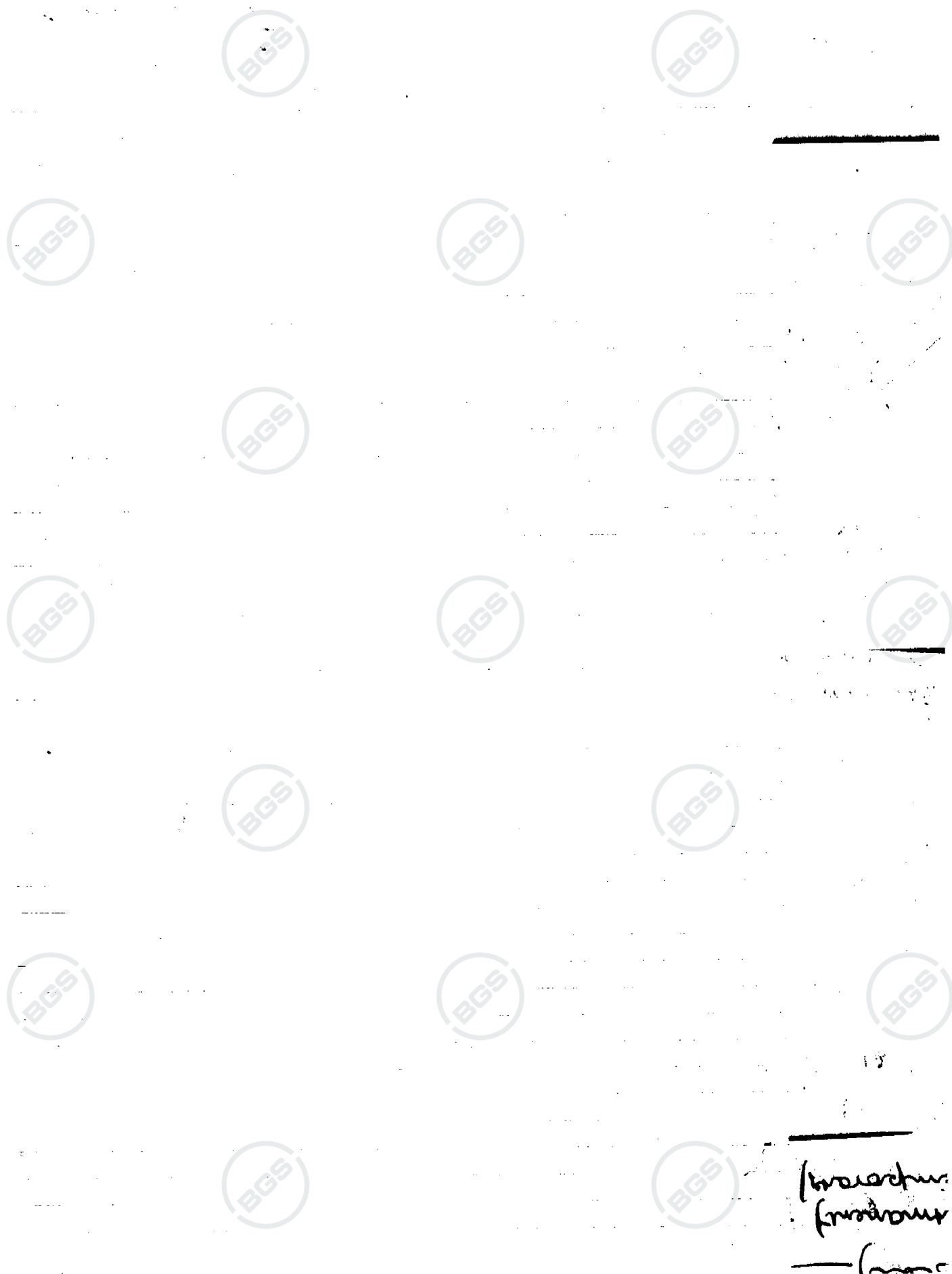
POPLAR FARM

Visited 14. May 1973.

Set of samples collected from
borehole, and analysed as part of the
17 cm/sec saline groundwater study.

P. J. Chiller

14. 5. 1973.





RECORD OF WELL (SHAFT OR BORE)

Rural District

04834598

TA04NW/2

At County Council Cottage

Town or Village Aike

County Yorkshire Six-inch quarter sheet

For Mr.

Exact site of well

Attach a tracing from
a map, or a sketch-
map, if possible.

Level of ground surface above sea-level (O.D.) 6.15 ^{4.57} feet.

Is well-top at ground level? If not, state how far above; below; feet.

Shaft ft., diameter ft. Details of headings

Bore 80 ft.; diameter of bore: at top 2 ins.; at bottom ins.

Lengths, diameters, perforations, etc., of lining tubes

Water struck at depths, below well-top, of (feet)

TEST DETAILS Rest-level of water ft. above well-top. Suction at ft. Yield on hours' days' pumping gallons per (max. capacity of pump g.p.h.), with depression of feet. Recovery to in mins. hours.

WORKING CONDITIONS Rest-level of water in (month), (year), ft. above below well-top. Highest in (month), (year), ft. above below. Lowest in (month), (year), ft. above below. Suction at ft. Rate of pumping galls. per for hours per day. with average depression of ft. Recovery to in mins. hours.

Quality of water (attach copy of analysis if available)

Well made by Lynne of Beverley Date of well 1928

Information from H. Lophworth, Rep. E.R. County Council, 1933, p. 46; San. Bureau, K.P.O. 16. VII. 4

ADDITIONAL NOTES.

Hand-pump; visited and sited on 6" d.d. felled-ship 196 N.W. (W)
K.P.O. 16.7.41.

Cottages on the soil, Bae disused.
no d.w.l. obtained. Reported as iron rich.

Drill 2/5/51
Probably drift on Flamborough chalk 9/1/52

LOG OF STRATA OVERLEAF.

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

Date received.	G.S.M. Office File No.	1" N.S. Map No.	1" O.S. Map No.	Site marked (use symbol) on 1" Map. on 6" Map.

GEOLOGICAL CLASSIFICATION	NATURE OF STRATA If measurements start below ground surface, state how far... ..	THICKNESS		DEPTH	
		Feet	Inches	Feet	Inches
DRIFT	clay	183	6	183	6
	Gravel (cherty)	640	21	27	8 23
FRANKENBACH CHALK	Chalk	1615	53	80	24 38



①

RECORD OF WELL (SHAFT OR BORE)

Lockington Carr.
At *Roadman's Cottage* [Rural Dist. Council
Canty. Cottages]
Town or Village *Aike*
County *Yorkshire* Six-inch quarter sheet *196 N.W. or N.E.*
For Mr. _____

TA04NW4/B
171

Exact site of well _____ (Attach a tracing from a map, or a sketch-map, if possible.)

Level of ground surface above sea-level (O.D.) *6.15* ^{4.57} feet.

Is well-top at ground level? _____ If not, state how far above; _____ feet.
below; _____

Shaft _____ ft., diameter _____ ft. Details of headings _____

Bore *87* ^(26.52 m) ft.; diameter of bore: at top _____ ins.; at bottom _____ ins.

Lengths, diameters, perforations, etc., of lining tubes _____

Water struck at depths, below well-top, of (feet) _____

TEST DETAILS { Rest-level of water _____ ft. above well-top. Suction at _____ ft. Yield on _____ hours' days' pumping _____ gallons per _____ (max. capacity of pump _____ g.p.h.),
Month _____ with depression of _____ feet. Recovery to _____ in _____ mins. hours.

WORKING CONDITIONS { Rest-level of water in _____ (month), _____ (year), _____ ft. above well-top.
Highest " in _____ (month), _____ (year), _____ ft. above below "
Lowest " in _____ (month), _____ (year), _____ ft. above below "
Suction at _____ ft. Rate of pumping _____ galls. per _____ for _____ hours per day.
with average depression of _____ ft. Recovery to _____ in _____ mins. hours

Quality of water (attach copy of analysis if available) _____

Well made by *J. Villiers (Sanguin) Ltd.* Date of well *1921*
Information from *Prof. P.F. Kendall's copy of Villiers' record*

ADDITIONAL NOTES.

Sites
1033478 A Visited and sited on 6" Rd field - slip 195 N.E. (E) overflowing. By pond occupying gap in hedge line.
03304708
B 2nd. bore (overflowing) in front of cottage, made by S. Jackson in 1938. Depth 80'; diam. 3". Surface c. 11' O.D. R.P.O. 15.7.41.
1033546 Im Villiers' original record books :-
03344697 "Aike. Roadman's Cottage. March, 1921"
starts on topped overleaf. [H.A.T. 27.11.41]

LOG OF STRATA OVERLEAF.

Date received.	G.S.M. Office File No.	1" N.S. Map No.	1" O.S. Map No.	Site marked (use symbol) on 1" Map.	on 6" Map.

(For Survey use only)
GEOLOGICAL
CLASSIFICATION

NATURE OF STRATA

If measurements start below
ground surface, state how far... ..

THICKNESS

Feet Inches

Inches

DEPTH

Feet	Inches
------	--------

Feet	Inches
------	--------

AIKE ROADMAN'S COTTAGE

March, 1921

Top soil

0.30

1

0.30

1

Gravel

396²

13

427

14

Clay

4-27

14

8.53

28

Gravel

3.66

12

12.19

4C

Chalk

14.33

47

26.5:

87

Typescript checked from Sanguin's record books. Date March, 1921. [H.A.T. No. 2, 1942]

Lapworth, 1933. East-Riding Water Supplies, p. 48.

"Lockington Cast. Surface C. 150 D. overflows 1934."

Letter from J. S. Wilson, Headmaster, Lockington School. 19.3.1960

"I have enquired from an old resident... and he informs me that the living is in the position marked on map with 'X Boing'." Tracing, 28.1.42 [N.A.T.]

" Mr. G. W. Lyons, Landover Lane, Beverley

1921, April 8. Bonhole pits. No making 2" bonhole 87 feet deep
and lining same with 51 ft. of 2" Best steam pipe."

Willers' Account Book, per HAT. Mob 1942

Both A+B overflow the white glass pond
even during dry summers - overflow c. 15/10/20

B used for drinking water for two cows
A for cattle. - remainder to waste.

July 3/5/57

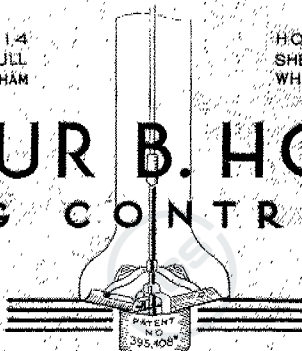
ON ADMIRALTY, WAR OFFICE & AIR MINISTRY LIST OF CONTRACTORS

TELEPHONE 34214
GRAMS HOLMES 34214 HULL
PRIVATE PHONE 47204 COTTINGHAM

HOLMES PATENT PILES
SHEET PILING, TEST BORES
WHARF RECONSTRUCTIONS

ARTHUR B. HOLMES

PIILING CONTRACTOR



BARNSELY ST
HULL

B. 2306.

3rd July, 1948.

04974576✓

Journal of Water Bore,
The Hull Corporation Water
Department,
at Aike.

Bore capped

no R.W.L. obtained

day.

3/5/51.

DRIFT

0.3	1' 0"	1	0	Top Soil	0.3
1.30	4' 3"	5	7	Brown Sandy Clay	1.6
0.08	3"	3	6	Blue Warp	1.62
0.61	2' 0"	7	6	Stiff Brown Silt	2.29
5.03	16' 6"	21	0	Boulder Clay	7.32
0.61	2' 0"	22	0	Blue Marl	7.92
0.91	3' 0"	23	3	Boulder Clay (Laminated)	8.83
1.52	5' 0"	24	0	Grey Marl with Bands of Boulder	10.36
1.83	6' 0"	25	0	Boulder Clay	12.19
0.91	3' 0"	26	0	Grey Sandy Marl	13.11
0.76	2' 6"	27	0	Chalk Marl	13.87
1.85	4' 9"	28	0	Putty Chalk	15.32
1.75	5' 9"	29	0	Putty Chalk (Harder)	17.07
10.36	34' 0"	30	0	Chalk Rubble	27.43
25.36	83' 0"	31	0	Chalk Rock	
52.73	173' 0"				

AIKE

DRIFT AND

OR CHALK

Flamforough
chalk

OS 1/2/82

Rec. 30.11.48

Lined with 88' 0" of 6" dia. tube.

chalk on 1" site on 1" and tests 196 NW/W



211
GEORGE STOW & CO.,

Waterworks Engineers

MILL STREET ———— SLOUGH, BUCKS.

RECORD OF WELL (SHAFT or BOREHOLE)

DATE COMPLETED April, 1949

Work carried out for Kington Upon Hull

Locality (Exact site) AIKE 3 1/2 miles north by east of Beverley.

County Yorks.
Level of ground surface above sea-level (O.D.) from 8" 2-74 ft.

If bore starts below ground, state how far..... ft.

Shaft..... ft..... ins. Diameter..... ft..... ins.

Bore 100 ft..... ins. Diameter: At top 39 ins.; At bottom 36 ins.

Details of permanent lining tubes.....

44'-0" of 39" Tubes, top 1-ft. below surface.

100'-0" of 36" Tubes, top 17-ft. " " (Bottom 60' slotted)

Water struck at depths of..... ft.
(Water shut out at depths marked *)

Rest-level of water ^{below} ground level 13 ft..... ins.

Yield on 5 ^{hours} _{days} test. Pumping 15,000 gallons per hour Date.....

Is more water available.....

Depressing water level to 160 ft..... ins., below ground level. Suction at.....

Time of recovery..... hours.

Normal pumping..... g.p.h. for..... hours.

Headings: Depth below surface.....

Directions and lengths.....

Quality of Water.....

Date.....

See back for Strata Record.

Sited on 8" Yorks 196 NW/PW
Bore void - no L.W.L. struck Dig 2/5/50

212

Contact BGS: ngdc@bgs.ac.uk



213 72/TA04NW11
379

PUMPING TEST RESULTS.

AIKE BOREHOLE.

	Total in 24 hours. Gallons	Average per hour. Gallons.
1948		
August 2nd	361,000	19,000
" 3rd	446,040	18,610
" 4th	436,080	18,170
" 5th	426,120	17,760
" 6th	416,250	18,100
" 7th	436,080	18,170
" 8th	436,080	18,170
" 9th	430,270	17,950
" 10th	424,460	17,670
" 11th	417,910	18,170
" 12th	426,120	17,770
" 13th	214,720	17,890

Recovery Levels

6" Bore
16 ft. b.w. log 1500 14/8/49 15 ft. b.w. log 15/8/49 14 ft. 4" b.w. log 15/8/49 14 ft. 2" b.w. log 15/8/49
32" Bore
16.5 ft. g. l. 1500 14/8/49 15 ft. 5" 15/8/49 14 ft. 3" g. l. 14/8/49 14 ft. 6" g. l. 14/8/49

29th May, 1951.
TLP/MP.



24 August 1949

R.W.L. in 6" bore

36" bore

Pumping commenced 8.15 A.M.

Time

36" Bore

6" Bore

Rate

8.30

73.3

36.0

19.000

5.45

78.11

38.7

9.00

80.3

39.9

9.15

81.3

40.8

10.00

82.0

41.8

11.00

82.6

42.8

12.00

82.7

43.2

13.00

83.0

43.7

14.00

83.2

43.10

15

83.3

44.1

16

83.2

44.3

17

83.2

44.5

18

83.2

44.7

19

82.11

44.9

20

83.6

45.3

21

83.2

45.4

22

83.4

45.5

23

83.6

45.6

24

83.8

45.8

3rd day

0100

83.10

45.9

2

84.00

45.10

3

84.2

45.11

4

84.4

46.0

5

84.7

46.2

6

85.0

46.3

7

85.4

46.4

8

85.5

46.4

9

85.4

46.5

10

85.3

46.5

11

85.2

46.6

12

85.1

46.6

13

85.0

46.7

14

85.2

46.6

15

85.5

46.5

16

85.5

46.5

17

85.4

46.6

18

85.8

46.10

24

85.10

46.11

0400

86.0

47.0

0800

86.0

47.0

1200

86.0

47.0

1600

86.0

47.0

2000

86.0

47.0

2400

86.0

47.0

2800

86.0

47.0

3200

86.0

47.0

3600

86.0

47.0

4000

86.0

47.0

4400

86.0

47.0

4800

86.0

47.0

5200

86.0

47.0

5600

86.0

47.0

6000

86.0

47.0

6400

86.0

47.0

6800

86.0

47.0

7200

86.0

47.0

7600

86.0

47.0

8000

86.0

47.0

8400

86.0

47.0

8800

86.0

47.0

9200

86.0

47.0

9600

86.0

47.0

10000

86.0

47.0

10400

86.0

47.0

10800

86.0

47.0

11200

86.0

47.0

11600

86.0

47.0

12000

86.0

47.0

12400

86.0

47.0

12800

86.0

47.0

13200

86.0

47.0

13600

86.0

47.0

14000

86.0

47.0

14400

86.0

47.0

14800

86.0

47.0

15200

86.0

47.0

15600

86.0

47.0

16000

86.0

47.0

16400

86.0

47.0

16800

86.0

47.0

17200

86.0

47.0

17600

86.0

47.0

18000

86.0

47.0

18400

86.0

47.0

18800

86.0

47.0

19200

86.0

47.0

19600

86.0

47.0

20000

86.0

47.0

20400

86.0

47.0

20800

86.0

47.0

21200

86.0

47.0

21600

86.0

47.0

22000

86.0

47.0

22400

86.0

47.0

22800



TA04NW 13

126

YORKSHIRE WATER AUTHORITY

RIVERS DIVISION

RECORD OF BORING

RIVER HULL C.S.
River AIKE/ARRAM DIVERSION
STAGE IV/VI
Parish

LB/RB

Boring No.: 3

Type of Boring: Base and Auger

Grid Ref: Refer to Drg. 43-266-13 03003
45985

Diameter of Boring: 6"

Inclination: in Appendix 3
Vertical

Lining Tubes:

Ground Level: 3.86 m AOD(N)

Date started: 7.3.84

Date completed: 8.3.84

Description of strata	Depth below surface From To m	Thick- ness m	Level of lower contact M AOD(N)	Samples			Ground-water m OAD(N)	Remarks
				Type	No.	O.D. of Sample m		
Topsoil	0-0.15	0.15	3.71				3.10	Artesian
Firm sandy clay	0.15-2.29	2.14	1.57					
2.29 Firm boulder clay	2.29-3.81	1.52		D	2			Refer to App.2 for SPT results
ditto	3.81-4.27	0.46		U4	1	0.05 to -0.41		Refer to App. 2 for shear vane test results
7.01 ditto	4.27-7.01	2.74	-3.15	D	2			
soft silty clay with chalk frag-ments	7.01-8.84	1.83	-4.98	D	2			
8.84 chalk	8.84-9.30	0.46	-5.44	D	1			Refer to App 2 for SPT results
9.3								
end of borehole								

[illegible]



Location plan

Water level data		
Date	Depth to W.L.	Pumping rate
08.03.84	0.76m	

Remarks
Sealed with cement

Analysis in mg/l
Date of Sample:
pH
CO ₂
Alkalinity
Total Hardness
Total Solids
Chlorides
Nitrates
Nitrites
NH ₃
Fe
Mn
Ca
Na
Mg
SO ₄

[illegible]



Location plan

see map in 10 km tiles

Analysis in mg/l

Date of Sample:

pH

CO₂

Alkalinity

Total Hardness

Total Solids

Chlorides

Nitrates

Nitrites

NH₃

Fe

Mn

Ca

Na

Mg

SO₄

Water level data

Date	Depth to W.L.	Pumping rate
8.3.84	3.10 m aod	

Remarks

RD/128

YORKSHIRE WATER AUTHORITY

TA04NW 14

RIVERS DIVISION

RECORD OF BORING

RIVER HULL CS
AIKE/ARRAM DIVERSION
STAGE IV/VI

River

LB/RB

Boring No.: 5

Parish

Type of Boring: Base and Auger

Grid Ref: Refer to Drg. 43-266-13 03080

Diameter of Boring: 6"

Inclination: in Appendix 3

45574

Vertical

Lining Tubes:

Ground Level: 2.83 m AOD(N)

Date started:) 5.3.84

Date completed:)

Description of strata	Depth below surface		Thick-ness	Level of lower contact	Samples			Ground-water	Remarks
	From	To			Type	No.	O.D. of Sample		
Topsoil	0-0.15		0.15	2.68	D	1			
Soft silty clay	0.15-0.91		0.76	1.92	D	1			
Stiff red clay	0.91-1.22		0.31	1.61	D	1			
Soft sand clay with stone fragments	1.22-1.52		0.30	1.31	D	1			
Firm boulder clay	1.52-5.49		3.97	-2.66	D	3			
Chalk	5.49-				D	1			
End of borehole								5.88	Artesian head (3.05 m above ground level when confined)

Grid Ref TA 04	TA 0308 4558	I.G.S. Ref	Licence No. Y.W.A. App. No.																								
Aquifer:	Chalk	$d = 5.71$ $c = 5.34$	Details of Strata: <table border="1"> <thead> <tr> <th></th> <th>(m) Thickness</th> <th>(m) Depth</th> </tr> </thead> <tbody> <tr> <td>Topsoil</td> <td>0.15</td> <td>0.15</td> </tr> <tr> <td>Soft silty clay</td> <td>0.76</td> <td>0.91</td> </tr> <tr> <td>Stiff red clay</td> <td>0.31</td> <td>1.22</td> </tr> <tr> <td>Soft sand clay</td> <td></td> <td></td> </tr> <tr> <td>with stone frag- -ments</td> <td>0.3</td> <td>1.52</td> </tr> <tr> <td>Firm boulder clay</td> <td>3.97</td> <td>5.49</td> </tr> <tr> <td>Chalk</td> <td></td> <td></td> </tr> </tbody> </table>		(m) Thickness	(m) Depth	Topsoil	0.15	0.15	Soft silty clay	0.76	0.91	Stiff red clay	0.31	1.22	Soft sand clay			with stone frag- -ments	0.3	1.52	Firm boulder clay	3.97	5.49	Chalk		
	(m) Thickness	(m) Depth																									
Topsoil	0.15	0.15																									
Soft silty clay	0.76	0.91																									
Stiff red clay	0.31	1.22																									
Soft sand clay																											
with stone frag- -ments	0.3	1.52																									
Firm boulder clay	3.97	5.49																									
Chalk																											
Address of Site:	Aike/Mirambeck diversion stage IV/VI b/h no. 5.																										
Owner:																											
Borehole Depth:	5.49 m	Dia: 6"																									
Casings:	ground level = 2.83 m aod. Started/completed 5/3/84.																										



Location plan

see map in 10 km files

Water level data		
Date	Depth to W.L.	Pumping rate
5/3/84	5.88 m aod	

Remarks
artesian head -
3.05 m above
ground when
confined.

Analysis in mg/l

Date of Sample:

pH

CO₂

Alkalinity

Total Hardness

Total Solids

Chlorides

Nitrates

Nitrites

NH₃

Fe

Mn

Ca

Na

Mg

SO₄



NGRC
BOREHOLE RECORDS
ADJUSTMENT FORM

QUARTER SHEET

TA04NW

BH REGISTRATION NUMBER

16-31

RECORDS ENTERED AND HELD BY WALLINGFORD

BH REGISTRATION NUMBER(S)



RECORD OF WELL (SHAFT OR BORE)

Lockington Carr.

At *Roadman's Cottage [County House Cottage]* *Royal Dist. Council*

Town or Village *Aike*

County *Yorkshire* Six-inch quarter sheet *195 NE 1E*

For Mr. _____

Exact site of well *a* TA 04 NW 0330 4707

b TA 04 NW 0333 4697

(Attach a tracing from a map, or a sketch-map, if possible.)

Level of ground surface above sea-level (O.D.) *c. 15* feet.

Is well-top at ground level? _____ If not, state how far above; _____ feet.
below; _____ feet.

Shaft _____ ft., diameter _____ ft. Details of headings _____

Bore *87* ft.; diameter of bore: at top _____ ins.; at bottom _____ ins.

Lengths, diameters, perforations, etc., of lining tubes _____

Water struck at depths, below well-top, of (feet) _____

TEST DETAILS (Rest-level of water _____ ft. above below well-top. Suction at _____ ft. Yield on _____ hours' days' pumping _____ gallons per _____ (max. capacity of pump _____ g.p.h.), with depression of _____ feet. Recovery to _____ in _____ mins. hours.

WORKING CONDITIONS (Rest-level of water in _____ (month), _____ (year), _____ ft. above below well-top. Highest " in _____ (month), _____ (year), _____ ft. above below " Lowest " in _____ (month), _____ (year), _____ ft. above below " Suction at _____ ft. Rate of pumping _____ galls. per _____ for _____ hours per day. with average depression of _____ ft. Recovery to _____ in _____ mins. hours

Quality of water (attach copy of analysis if available) _____

Well made by *J. Villiers (Langworn) Ltd.* Date of well *1921*

Information from *Prof. P.F. Kendall's copy of Villiers' record*

ADDITIONAL NOTES.

A Visited and sited on 6" Rd field-strip, 195 N.E.(E). overflowing. By pond occupying gap in hedge line.

B 2nd. bore (overflowing) in front of cottage, made by S. Jackson in 1938. Depth 80'; diam. 3". Surface c. 11' O.D. K.P.O. 15.7.41.

In Villiers' original record book:-

"Aike. Roadman's Cottage. March, 1921"
strata on typical outcrop. [N.A.T. 27.11.41]

P.T.O.

LOG OF STRATA OVERLEAF.

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

Date received.	G.S.M. Office File No.	1" N.S. Map No.	1" O.S. Map No.	Site marked (use symbol) on 1" Map.	on 6" Map.

(For Survey use only)
GEOLOGICAL
CLASSIFICATION

NATURE OF STRATA

If measurements start below
ground surface, state how far... ..

THICKNESS

Feet Inches

DEPTH

Feet Inches

72/171

TA04/3

AIKE ROADMAN'S COTTAGE

March, 1921

DRIFT

Top soil	1	1
Gravel	13	14
Clay	14	28
Gravel	12	40
Chalk	47	87

FLAMBOROUGH
CHALK

C. GODWIN
1982

Typescript checked from Sanguin's account books. Date March, 1921. [H.A.T. 10.2.1942]

Lapworth, 1933. East Riding Water Supply, p.48.

"Lockington East. Surface c.150.0. overflow 1931."

Letter from J. S. Wilson, Headmaster, Lockington School. 19.3.1940.

"I have enquired from an old resident... and he informs me that the boring is in the position marked on map with 'x Boring'." Tracing missing 21.1.42 [H.A.T.]

"Mr. G.W. Lynn, Landowner Lane, Beverley

1921, April 8. Borehole Aike. Is making a" borehole 87 feet deep and lining same with 51 ft. of 2" Best steam pipe."

Willers' Account Book, per H.A.T. Mob 1942

B&A A+B overflow all white year round even during dry seasons - overflow c. 15/10.0.

B used for drinking water for two years
A for cattle. - remains to waste

July 2/5/51

Noted

A+B overflow all year c. 60g.p.h.

A. Fills a cistern high but disused
B Disused, runs to waste.

11.4.70 V.A.T.

7/338

visited

a) overflowing

b) Just overflows at -1' a.g.l. at c. 10 g.ph. 00. + 14.

van 30.10.70



NGRC
BOREHOLE RECORDS
ADJUSTMENT FORM

QUARTER SHEET

TA04NW

BH REGISTRATION NUMBER

16-31

RECORDS ENTERED AND HELD BY WALLINGFORD

BH REGISTRATION NUMBER(S)

[illegible]



BEST WATER LEVELS			LOCATION PLAN:	Analysis in mg/l.	
Date	Depth	O.D.		Date of Sample:	
			Remarks: <i>One from</i>	pH	
				CO ₂	
				Alkalinity	
				Total Hardness	
				Total Solids	
				Chlorides	
				Nitrates	
				Nitrites	
				NH ₃	
				Fe	
				Mn	
				Ca	
				Na	
				Mg	
				SO ₄	



RECORD OF WELL (SHAFT OR BORE)

At Bryan Mills, New Cottages near
Town or Village Lockington
County York Six-inch quarter sheet 195 N.E./W
For Rev. R.D.C.
Exact site of well See '12 in popular' 1" Temple.
TA04NW 0140 4670

72 TA04/2
207
TA04NW/6

Attach a tracing from
a map, or a sketch-
map, if possible.

Level of ground surface above sea-level (O.D.) 6.25 feet.

Is well-top at ground level? Yes If not, state how far above; feet.
below; feet.

Shaft ft., diameter ft. Details of headings

Bore 77 ft.; diameter of bore: at top 2 ins.; at bottom ins.

Lengths, diameters, perforations, etc., of lining tubes

Water struck at depths, below well-top, of (feet)

water overflowed
TEST DETAILS Rest-level of water ft. above well-top. Suction at ft. Yield on hours' days' below
Month pumping gallons per (max. capacity of pump g.p.h.),
Year with depression of feet. Recovery to in mins. hours.

WORKING CONDITIONS Rest-level of water in (month), (year), ft. above well-top.
Highest " in (month), (year), ft. above below "
Lowest " in (month), (year), ft. above below "
Suction at ft. Rate of pumping galls. per for hours per day.
with average depression of ft. Recovery to in mins. hours

Quality of water (attach copy of analysis if available)

Well made by J. Villiers (Sanguin) Ltd. Date of well 1921
Information from G.W. Palmer, for K.P. Oakley, April, 1941.

ADDITIONAL NOTES.

Hand-pump.

Visited and sited on Rd field strip 195 N.E. (W).
Surface 29' O.D. overflowing; water dirty when pumped.
K.P.O. 14.7.41.

Date, Mar. 1921. Bryan Mills. Roadmen's Cottages. (from original copy of Villiers records.) [G.W.P., 12/9/41] [N.A.T. 27.4.41]
States on overleaf. No other details.

Pump now disused on main. Out water.
Overflowing except between Oct. 1941.
O.D. 6.25. When water is pumped water of STRATA OVERLEAF.

GEOLOGICAL SURVEY AND MUSEUM,
SOUTH KENSINGTON,
LONDON, S.W.7.

Date received.	G.S.M. Office File No.	1" N.S. Map No.	1" O.S. Map No.	Site marked (use symbol) on 1" Map.	on 6" Map.

(For Surveyors only)
GEOLOGICAL
CLASSIFICATION

NATURE OF STRATA

If measurements start below
ground surface, state how far... ..

THICKNESS

Feet Inches
... ..

TA04/2
DE 12

Feet Inches

DRIFT

? BURNHAM
CHALK

C. GODWIN
1982

Soil
Gravel
Clay
Gravel
Chalk

Feet	Inches	Feet	Inches
1	0	1	0
13	0	14	0
14	0	28	0
12	0	40	0
37	0	77	0

72/207

Lapsworth's MS. map gives:-

at Bogan mill "40 ft of Superficial beds. R.W.L. 20 O.D.

Top of chalk - 20 O.D."

"G.W. Lygon, Landress Lane, Borehole,

1921. March 24. Borehole Bogan mill. To making 2" Borehole

47 ft. deep - lining same with 51 feet of 2" Best steam gauge."

Villiers' Account Book

per GAT. M.H. 1949

United.

10 feet west of rear of cottages. Overflows into a
ditch and thence to a ditch. at c. 10 g.p.h.

SF 10.470.

United. not overflowing

VAM 20.10.70.



NGRC
BOREHOLE RECORDS
ADJUSTMENT FORM

QUARTER SHEET

TA04NW

BH REGISTRATION NUMBER

16-31

RECORDS ENTERED AND HELD BY WALLINGFORD

BH REGISTRATION NUMBER(S)

Grid Ref. TA049457	I.G.S. Ref. 72 / 379 A	Licence No. Y.W.A. App. No.																																																
Aquifer: Chalk Address of Site: Aike Owner: YWA Borehole Depth: 173' 52.73m Casings: 88' of 6" 26.82m.		<div style="text-align: center; margin-bottom: 10px;"> 200: 2.2 100: 16.1 </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;">Details of Strata:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Feet</th> </tr> </thead> <tbody> <tr> <td>Top soil</td> <td>0.30</td> <td>1</td> </tr> <tr> <td>Brown sandy clay</td> <td>1.31</td> <td>4 1/2</td> </tr> <tr> <td>Blue marl</td> <td>0.076</td> <td>1/4</td> </tr> <tr> <td>Stiff brown silt</td> <td>0.61</td> <td>2</td> </tr> <tr> <td>Bouldy clay</td> <td>5.06</td> <td>16 1/2</td> </tr> <tr> <td>Blue marl</td> <td>0.61</td> <td>2</td> </tr> <tr> <td>Laminated boulder clay</td> <td>0.91</td> <td>3</td> </tr> <tr> <td>Grey marl</td> <td>1.52</td> <td>5</td> </tr> <tr> <td>Bouldy clay</td> <td>1.83</td> <td>6</td> </tr> <tr> <td>Grey sandy marl</td> <td>0.91</td> <td>3</td> </tr> <tr> <td>Chalk marl</td> <td>0.79</td> <td>2 1/2</td> </tr> <tr> <td>Pebbly chalk</td> <td>1.49</td> <td>4 3/4</td> </tr> <tr> <td>Harder pebbly chalk</td> <td>1.79</td> <td>5 1/2</td> </tr> <tr> <td>Chalk rubble</td> <td>10.36</td> <td>34</td> </tr> <tr> <td>Chalk rock</td> <td>25.30</td> <td>83</td> </tr> </tbody> </table>	Details of Strata:		Feet	Top soil	0.30	1	Brown sandy clay	1.31	4 1/2	Blue marl	0.076	1/4	Stiff brown silt	0.61	2	Bouldy clay	5.06	16 1/2	Blue marl	0.61	2	Laminated boulder clay	0.91	3	Grey marl	1.52	5	Bouldy clay	1.83	6	Grey sandy marl	0.91	3	Chalk marl	0.79	2 1/2	Pebbly chalk	1.49	4 3/4	Harder pebbly chalk	1.79	5 1/2	Chalk rubble	10.36	34	Chalk rock	25.30	83
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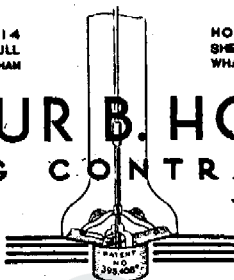
REST WATER LEVELS			LOCATION PLAN:	Analysis in mg/l.	
Date	Depth	O.D.		Date of Sample:	
				pH	
				CO ₂	
				Alkalinity	
				Total Hardness	
				Total Solids	
				Chlorides	
				Nitrates	
				Nitrites	
				NH ₃	
				Fe	
				Mn	
				Ca	
				Na	
				Mg	
				SO ₄	
			Remarks:		
			Misc a 3.6" bore, test		
			pumped - Good pump		
			records at 16s		
			Sealed 1951		

ON ADMIRALTY, WAR OFFICE & AIR MINISTRY LIST OF CONTRACTORS

TELEPHONE 34214
GRAMS - HOLMES 34214 HULL
PRIVATE PHONE 47204 COTTINGHAM

HOLMES PATENT PILES
SHEET PILING - TEST BORES
WHARF RECONSTRUCTIONS

ARTHUR B. HOLMES
PILING CONTRACTOR



**BARNLEY ST
HULL**

B. 2306.

3rd July, 1948.

Journal of Water Bore,
The Hull Corporation Water
Department,
at Aike.

*Bore capped
no R.W.L. obtained
2/5/51.*

DRIFT

AIKE
72/379
DRIFT AND/OR CHALK
FLAMBOROUGH CHALK

C. GODWIN 1982
Rec: 30.11.48

1' 0"	1' 0"	Top Soil
4' 5"	5' 3"	Brown Sandy Clay
3"	5' 6"	Blue Warp
2' 0"	7' 6"	Stiff Brown Silt
16' 6"	24' 0"	Boulder Clay
2' 0"	26' 0"	Blue Marl
5' 0"	29' 0"	Boulder Clay (Laminated)
5' 0"	34' 0"	Grey Marl with Bands of Boulder
6' 0"	40' 0"	Boulder Clay
3' 0"	43' 0"	Grey Sandy Marl
2' 6"	45' 6"	Chalk Marl
4' 9"	50' 3"	Putty Chalk
5' 9"	56' 0"	Putty Chalk (Harder)
34' 0"	90' 0"	Chalk Rubble
83' 0"	178' 0"	Chalk Rock

178' 0"

Lined with 88' 0" or 6" dia. tube.

Chalk 0' 0" - 50'
lined on 1"
and bts 196 NW/W

Waited
A. Not found
b Capped tubes about c. 6" a.g.l. could be opened, good record like
VAT 11-4-70.

Visited
series - things done in the top. R.W.L. 13.5' b.g.l. o.d. + c. 8.
VAT 30-10-70

Waited
as the
2



NGRC
BOREHOLE RECORDS
ADJUSTMENT FORM

QUARTER SHEET

TA04NW

BH REGISTRATION NUMBER

16-31

RECORDS ENTERED AND HELD BY WALLINGFORD

BH REGISTRATION NUMBER(S)



Grid Ref TA 0496 4575 TA 04	I.G.S. Ref	Licence No. Y.W.A. App. No.																																	
Aquifer: Chalk	d = 17.09 m c = 715 m	Details of Strata:																																	
Address of Site: Aike (more details not known)		<table border="1"><thead><tr><th></th><th>(m) Thickness</th><th>(m) Depth</th></tr></thead><tbody><tr><td>Sandy clay</td><td>1.83</td><td>1.83</td></tr><tr><td>Boulder clay</td><td>5.49</td><td>7.32</td></tr><tr><td>Clay + marls</td><td>4.88</td><td>12.2</td></tr><tr><td>Grey sandy marl</td><td>0.92</td><td>13.12</td></tr><tr><td>Chalk marl +</td><td>2.14</td><td>15.26</td></tr><tr><td>putty chalk</td><td></td><td></td></tr><tr><td>Harder putty chalk</td><td>1.83</td><td>17.09</td></tr><tr><td>Rubble chalk</td><td>1.83</td><td>18.92</td></tr><tr><td>Soft chalk</td><td>11.59</td><td>30.51</td></tr><tr><td>firm chalk</td><td>24.40</td><td>54.91</td></tr></tbody></table>		(m) Thickness	(m) Depth	Sandy clay	1.83	1.83	Boulder clay	5.49	7.32	Clay + marls	4.88	12.2	Grey sandy marl	0.92	13.12	Chalk marl +	2.14	15.26	putty chalk			Harder putty chalk	1.83	17.09	Rubble chalk	1.83	18.92	Soft chalk	11.59	30.51	firm chalk	24.40	54.91
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Soft chalk	11.59	30.51																																	
firm chalk	24.40	54.91																																	
Owner:																																			
Borehole Depth: 180 ft 5" (54.9 m)	Dia: 39" at top 36" bottom																																		
Casings: 44' of 39" Tubes with top 1ft below gr. 100' of 36" tubes with top 17 ft " " (bottom 60' slotted).																																			

Location plan

Water level data			Remarks
Date	Depth to W.L. <small>± 0.1m</small>	Pumping rate	
Onchilling 1949	13' bel gr.		
1949	160' " "	5 days at 15,000 gallons per hr.	68m ³ /hr
	48m		

Analysis in mg/l

Date of Sample:

pH

CO₂

Alkalinity

Total Hardness

Total Solids

Chlorides

Nitrates

Nitrites

NH₃

Fe

Mn

Ca

Na

Mg

SO₄



TA04/29 B N2288
72
GEORGE STOW & CO., LTD.

Received 13-6-49

Waterworks Engineers

MILL STREET SLOUGH, BUCKS.

2
RECORD OF WELL (SHAFT or BOREHOLE)

TA04NW 04964575

TA04 NW/128

DATE COMPLETED April, 1949

379

B

Work carried out for.....Kington Upon Hull.....
Locality (Exact site).....AIKE..... $3\frac{1}{2}$ miles north by east of Beverley.....
.....County.....Yorks.....
Level of ground surface above sea-level (O.D.)..... $\frac{1}{2}$ ft.....
If bore starts below ground, state how far.....ft.....
Shaft.....ft.....ins. Diameter.....ft.....ins.....
Bore.....180 ft.....ins. Diameter: At top.....39.....ins.; At bottom.....36.....ins.
Details of permanent lining tubes.....
.....44'-0" of 39" tubes, top 1-ft. below surface.....
.....100'-0" of 36" tubes, top 17-ft. (Bottom 60" slotted)
Water struck at depths of.....ft.....
(Water shut out at depths marked *)
Rest-level of water below ground level.....13.....ft.....ins.
Yield on.....5.....hours' test. Pumping.....15,000.....gallons per hour.....Date.....
Is more water available.....
Depressing water level to.....160.....ft.....ins., below ground level. Suction at.....
Time of recovery.....hours.....
Normal pumping.....g.p.h. for.....hours.....
Headings. Depth below surface.....
.....Directions and lengths.....
Quality of Water.....
.....
.....

Date.....

See back for Strata Record.

Sited on 8" Yorks 196 NW/PW
Bore used - no L.W.L. attempt 2/5/51

TA04/29B
22/379B

③

Contact BGS: ngdc@bgs.ac.uk

(4)

72/TA04NW27B
379 B

PUMPING TEST RESULTS.

AIKE BOREHOLE.

	Total in 24 hours. Gallons	Average per hour. Gallons.
<u>19459</u>		
August 2nd	361,000	19,000
" 3rd	446,040	18,610
" 4th	436,080	18,170
" 5th	426,120	17,760
" 6th	416,250	18,100
" 7th	436,080	18,170
" 8th	436,080	18,170
" 9th	430,270	17,950
" 10th	424,460	17,670
" 11th	417,910	18,170
" 12th	426,120	17,770
" 13th	214,720	17,890

Pumping Details

6" Bore
1500 14/8/49 15 ft. 6 in. 15/8/49 14 ft. 6 in. 16/8/49 14 ft. 6 in.
15" Bore
1500 14/8/49 15 ft. 5 in. 15/8/49 14 ft. 5 in. 16/8/49 14 ft. 5 in.

29th May, 1951.
TLP/1P.



N.G.R. TA 0950 4946 B.G.S. Ref. No.



ENVIRONMENT
AGENCY

Aquifer CHALK

Licence No.

EA OBSERVATION

App. No. BOREHOLE

Address of Site HEMPHOLME PUMPING STATION
BRANDESBURTON E. YORKS

Details of Strata :

Owner ENVIRONMENT AGENCY

TOP SOIL 0.18 0.18

SAND &
GRAVEL 1.98 2.13

Borehole Depth 39.62 Dia. 200 mm

GRAVEL 2.44 4.57

HARD
CLAY 6.10 10.67

Casings RAIN TO 26.5 m

SOFT
CLAY 4.27 14.94

CHALK
GRAVEL 3.35 18.28

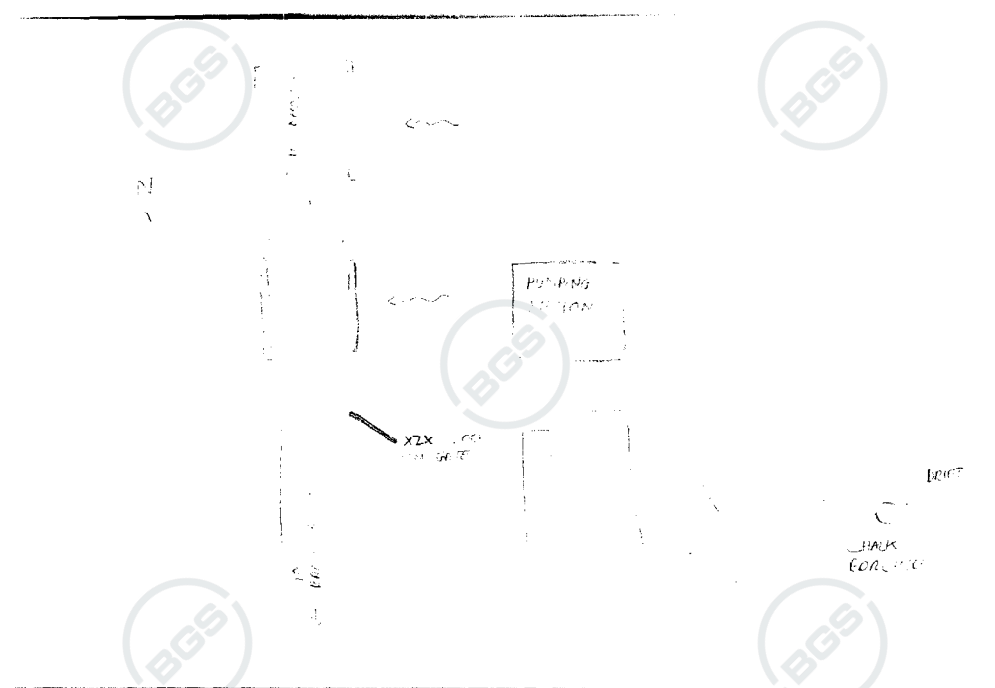
DATUM 1.587 m.a.s.l (TOP OF CAPPING PLATE)

DRAINED 11/11/96

SMALL
GRAVEL 1.52 19.81

BROKEN
CHALK 1.52 21.34

CHALK 18.29 39.62





N.G.R. TA 050 4846 B.G.S. Ref. No.



ENVIRONMENT
AGENCY

Aquifer DRIET

Licence No.

EA OBSERVATION

App. No. BOREHOLE

Address of Site HEMPHOLME PUMPING STATION
..... BRANDESBURTON E. YORKS

Details of Strata :

Owner ENVIRONMENT AGENCY

Borehole Depth Dia. 100 mm

Casings
.....
.....
.....

DATUM 1.611 m. a. o. d. (TOP OF CASING)

DRILLED 11/11/96



TA04.		Licence No.	
Grid Ref	I.G.S. Ref	Y.W.A.	App. No.
TA 055 456			
Aquifer: Drift		Details of Strata:	
Address of Site: Aike, Barmston Drain B/H No 1		Dark top soil	0.15
Owner:		Light sandy clay	0.76 0.91
Borehole Depth: 11.12	Dia: 0.15	Sand	0.61 1.52
Casings:		Silty sand + clay	0.91 2.44
		Silty clay	0.61 3.05
		Boulder clay	0.76 3.81
		U4 sample	0.46 4.27
		Boulder clay	2.13 6.40
		U4 sample	0.46 6.86
		Boulder clay	0.76 7.62
		Laminated clay	0.61 8.23
		Boulder clay	1.52 9.75
		Chalk	0.91 10.67
		Standard pen test 15 Drops	9.91
		13	10.06
		11	10.21
		11	10.82
		16	10.97
		13	11.12



Location plan

Water level data		
Date	Depth to W.L.	Pumping rate
20.1.81	0.46	

Remarks

Analysis in mg/l
Date of Sample:
pH
CO ₂
Alkalinity
Total Hardness
Total Solids
Chlorides
Nitrates
Nitrites
NH ₃
Fe
Mn
Ca
Na
Mg
SO ₄

Grid Ref TA 051 457	I.G.S. Ref	Licence No. Y.W.A. App. No.
Aquifer:	Details of Strata:	
Address of Site: Aike B/H No 1	Weak clay 0.61	
Owner:	Strong clay 3.20 3.81	
Borehole Depth: 6.10	Brown clay with gravel 2.29 6.10	
Dia: 0.15		
Casings:		



Location plan

Analysis in mg/l
Date of Sample:
pH
CO ₂
Alkalinity
Total Hardness
Total Solids
Chlorides
Nitrates
Nitrites
NH ₃
Fe
Mn
Ca
Na
Mg
SO ₄

Water level data		
Date	Depth to W.L.	Pumping rate
25.9.79	2.74	

Remarks

WR38: Borehole record form

TA04/119

Borehole record form



British
Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL



Environment
Agency

Water Resources Act 1991 (as amended by the Water Act 2003)

A Site details

Borehole drilled for N WRIGHT SMALL HOLDINGS CHAPEL LANE
Location 3 Thatch Cottages, Water, York YO42 1XP
NGR (ten digits) TA05462 46069 Please attach site plan
Ground level (if known) — metres Above Ordnance Datum
Drilling company M&D DRILLING CO LTD
Date drilling commenced 2 - 4 - 2012 (DD/MM/YYYY) Completed 12 - 4 - 2012 (DD/MM/YYYY)

B Construction details

Borehole datum (if not ground level) GROUND LEVEL metres (m). Please tick if this is above ☐ or below ☐ ground level.
(point from which all measurements of depth are taken, for example, flange, edge of chamber)

Borehole drilled diameter 250 mm from 0 to 26.00 m/depth
150 mm from 26.00 to 45.00 m/depth
— mm from — to — m/depth
— mm from — to — m/depth

Casing material — diameter — mm from — to — m/depth
and type (for example, if plain steel, plastic slotted). Please record permanent casing details, not temporary casing.

Casing material STEEL diameter 150 mm from 0 to 26.00 m/depth
Casing material PLASTIC PLAIN diameter 100 mm from 0 to 45.00 m/depth
Casing material SLOTTED diameter — mm from — to — m/depth

Grouting details ANNULUS GROUTED

Water struck at 1. BETWEEN 26 and 30 m (depth below datum – mbd) 2. — m (mbd)
3. — m (mbd) 4. — m (mbd)

C Test pumping summary (Please supply full details on form WR39)

Test pumping datum 0.11 m. Please tick if this is above ☒ or below ☐ ground level.
(if different from borehole datum)

Pump suction depth 25.0 mbd

Water level (start of test) 1.50 mbd

Water level (end of test) 1.61 mbd

Type of test (for example, bailer, step, constant rate)

CONSTANT

Pumping rate 2 m³/hour ☒ or litres/second ☐. Please tick as appropriate.

for 2 days, — hours, — mins

Recovery to 1.50 mbd in — days, — hours, 40 mins
(from end of pumping)

Date(s) of measurements Pump started 12/4/12 (DD/MM/YYYY)

Pump stopped 14/4/12 (DD/MM/YYYY)

Please supply chemical analysis if available. If you have included this please tick this box ☐

WR38: Borehole record form

D Strata log

Geological classification (BGS only)	Description of strata	Thickness m	Depth (to base of strata) m
	TOP SOIL	0-40	0-40
	CLAY	17-40	17-80
	CHALK	27-20	45-00
	(continue on separate page if necessary)		
	Other comments (for example, gas encountered, saline water intercepted)		

E Completing this form

How long did it take you to fill in this form? _____

For Official use only

Date received (DD/MM/YYYY)	File	Consent number	BGS reference number
Accession number	Wellmaster number	SOBI number	NGR
LIC NO	Purpose		EA reference number
Copy number	Entered by		

Annex E Qualitative Human Health and Environmental Risk Assessment Methodology

1. The risk assessment considers the sources and potential receptors identified, together with linking pathways. These linkages are summarised in the Preliminary Conceptual Site Model and Qualitative Risk Assessment within the report, where the associated environmental risk is assessed for a given source and the end-use of the site. This assessment also takes account of specific chemicals of concern or groups of similar chemicals of concern.
2. The column designated as 'Potential Consequence of Source- Pathway – Receptor-Linkage' in the Preliminary Conceptual Site Model and Qualitative Risk Assessment gives an indication of the sensitivity of a given receptor to a particular source/chemical of concern being considered. It is a worst case classification and is based on full exposure via the particular linkage being examined. The derivation of the classes used to rank this particular aspect is as follows shown in the Table below based on CIRIA 552 'Contaminated Land Risk Assessment, A Guide to Good Practice' 2001.

Severe	Acute risk to human health likely to result in 'significant harm' as defined by the Environmental Protection Act 1990, Part 2A.	Substantial pollution of sensitive water resources.	Significant change to the number of one or more species or ecosystems.	Catastrophic damage to buildings, structures or the environment.
Medium	Chronic damage to human health ('significant harm').	Pollution of sensitive water resources.	Change to population densities of non-sensitive species.	Damage to sensitive buildings, structures or the environment.
Mild	Harm but not necessarily significant harm to humans.	Pollution to non-sensitive water resources.	Some change to population densities but with no negative effects on the function of the ecosystem.	Easily repairable effects of damage to buildings or structures.

Minor	Harm but not necessarily significant harm to humans which can easily be prevented with the use of PPE.	Slight pollution to nonsensitive water resources.	No significant changes to population densities in the environment or in any ecosystem.	Very slight nonstructural damage or cosmetic harm to buildings or structures.
--------------	--------------------------------------------------------------------------------------------------------	---------------------------------------------------	----------------------------------------------------------------------------------------	-------------------------------------------------------------------------------

3. Subsequently, in the column designated 'Likelihood of PC'L, an assessment is made of the probability of the selected source and receptor being linked by the identified pathway. This assessment is ranked based on-site specific conditions set out in the Table below.

Classification of Probability	Definition
High likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term
Low likelihood	There is a pollution linkage and circumstances are possible under which an even could occur. However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.
Unlikely	There is a pollution linkage, but circumstances are such that it is improbable that an event would occur in the very long term.

4. The 'Risk Classification' column is an overall assessment of the actual risk, which considers the likely consequence of a given risk being realised and the likelihood of that risk being realised. The risk classifications are assigned using the consequence/likelihood matrix as shown below.

Matrix				
Severe	Moderate to low	Moderate	High	Very High
Medium	Low	Moderate to low	Moderate	High
Mild	Very low	Low	Moderate to low	Moderate

Matrix				
Minor	Very low	Very low	low	Moderate to low
Likelihood	Unlikely	Low likelihood	Likely	High likelihood

5. Overall risks are described in the Table below.

Inshore study	Definition
Very Low	The presence of the identified source does not give rise to the potential to cause unacceptable harm.
Low	It is possible that harm could arise to a designated receptor from an identified source, however, this is unlikely to be unacceptable.
Moderate	It is possible that harm could arise to a designated receptor from an identified source, but it is likely that such harm would be relatively localised or non-permanent - remedial action may be necessary.
High	A designated receptor is likely to experience unacceptable harm from an identified source without remedial action.
Very High	There is a high probability that severe unacceptable harm could arise to a designated receptor from an identified source without appropriate remedial action.

6. In cases of physical features, such as foundations and underground services, harm is defined as impact which would result in non-serviceability of the identified receptor or extra over build costs associated with redevelopment.