

Site Details:

Land Adj. Park Lane, Charvil,
Reading, RG10 9TR

Client Ref: 25-07-12
Report Ref: GS-MK9-6KV-MCO-X22_LS_2_1
Grid Ref: 477824, 175186

Map Name: National Grid

Map date: 1985-1989

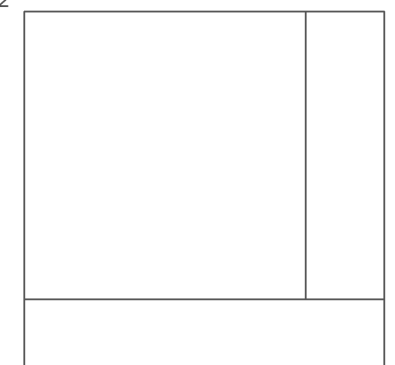
Scale: 1:2,500

Printed at: 1:2,500



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Revised 1989
Edition N/A
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Levelled 1972

Surveyed 1983
Revised 1983
Edition N/A
Copyright 1985
Levelled 1972

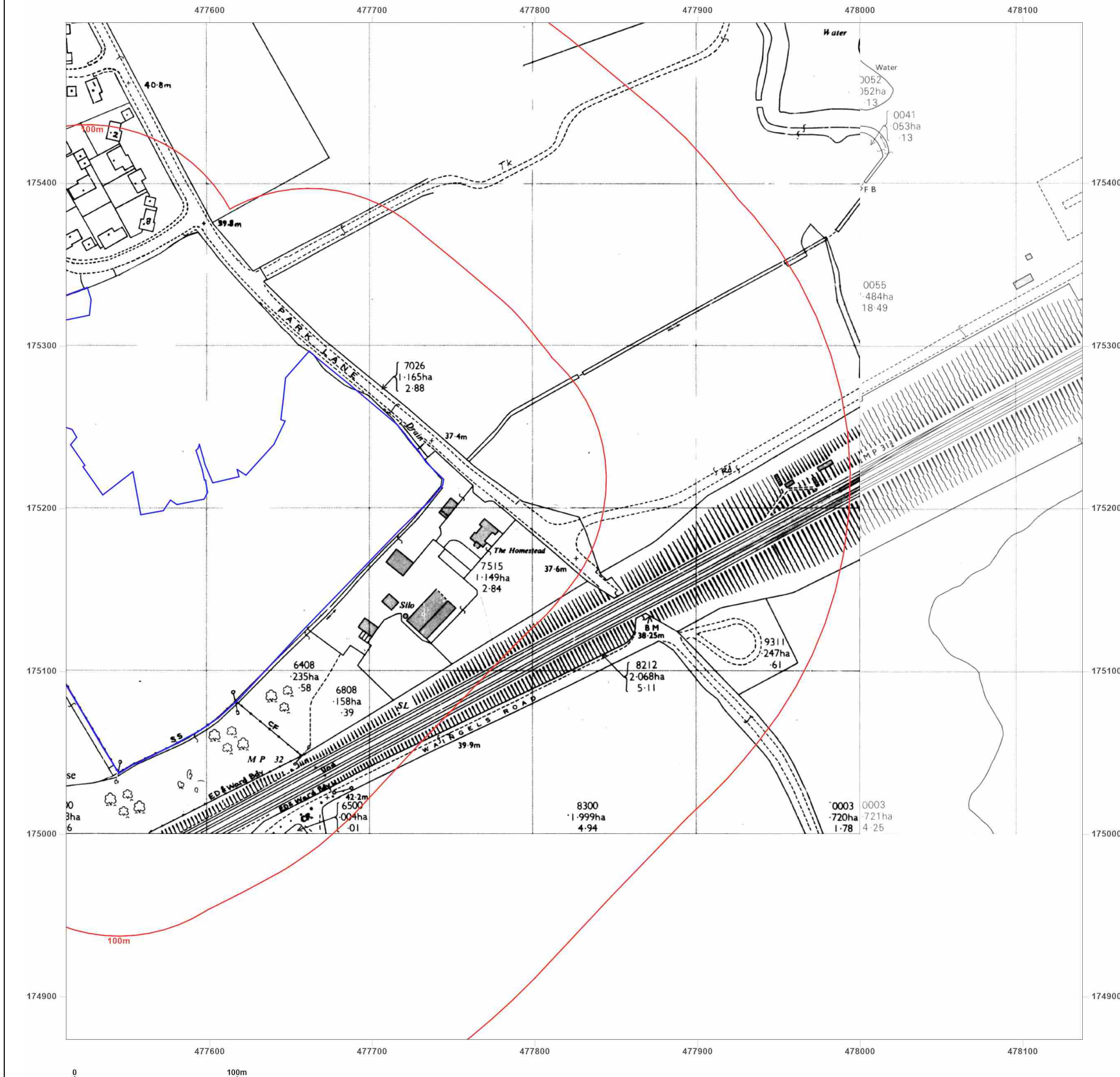


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Production date: 22 July 2025

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Map Name: National Grid

Map date: 1993

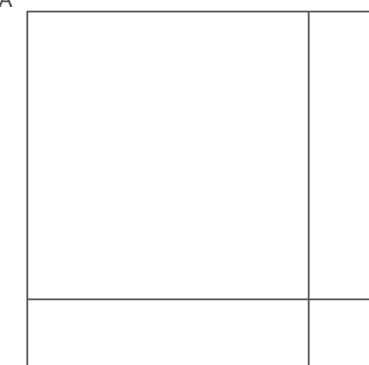
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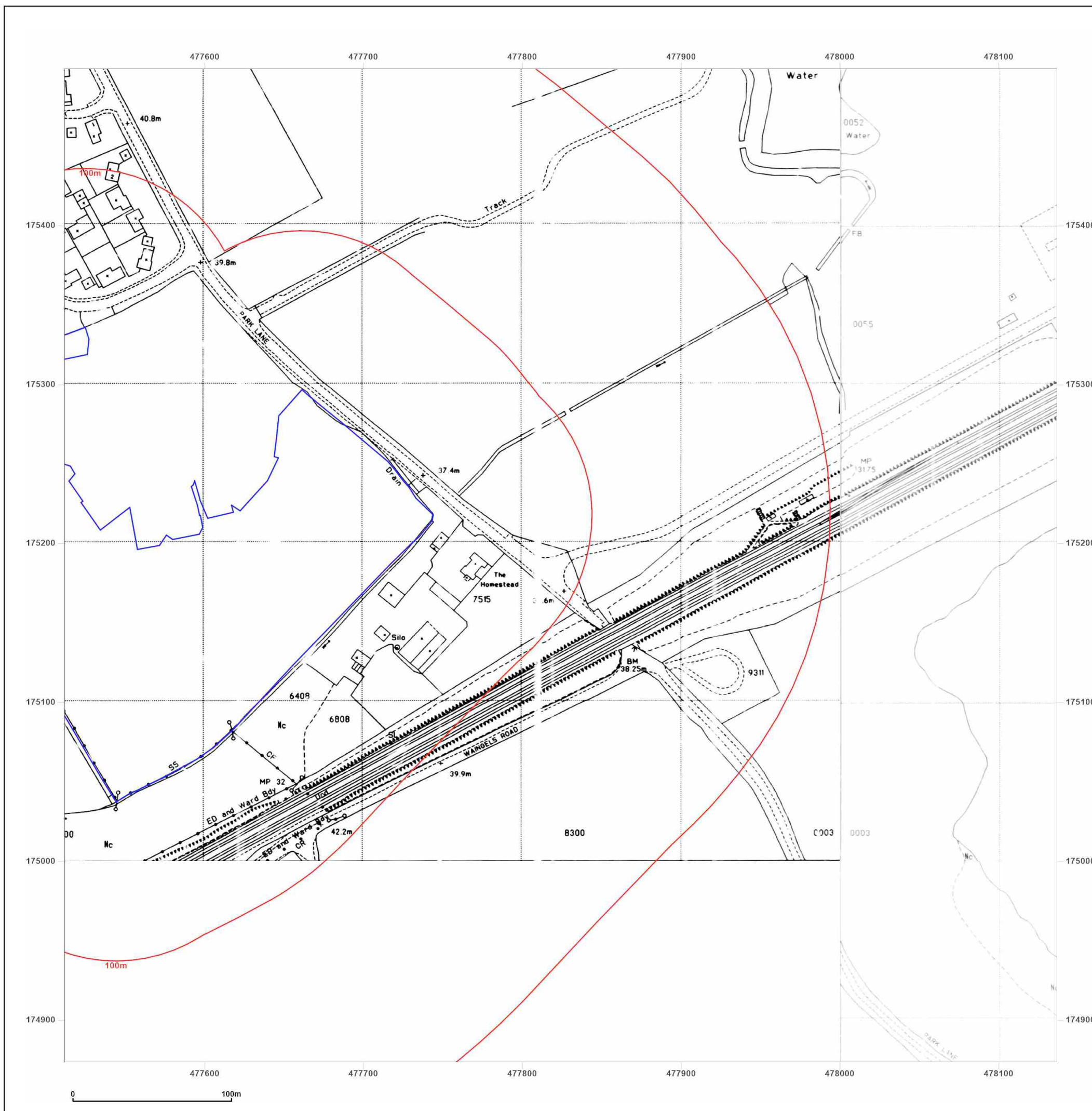


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Natural Cavities Risk Assessment

Project Name : Land Adj. Park Lane, Charvil

Project No : ,25-07-12

Client : Bellway Homes

This site has a Very High Subsidence Hazard Category

Subsidence Hazard Components	Value
G1 - Chalk lithostratigraphic Factor	20
G2 - Post Cretaceous Cover Deposit Factor	43
H1 - Water Table Level Factor	1
H2 - Topographic Relief and Surface Drainage/Subsurface Infiltration Factor	10
GM1 - Former Surface Water Drainage Path Factor	0
GM2 - Glaciation Factor	0

SHR_N = (G1+G2+H1+GM1+GM2)*H2 **SHR_N Value** **640**

SHR _N	Subsidence Hazard Category
<55	No Anticipated Subsidence Hazard
55 to 89	Very Low Subsidence Hazard
90 to 136	Low Subsidence Hazard
137 to 200	Moderately Low Subsidence Hazard
201 to 300	Moderate Subsidence Hazard
301 to 400	Moderately High Subsidence Hazard
401 to 600	High Subsidence Hazard
>600	Very High Subsidence Hazard

Regional Abbreviations used on Sheets 2 and 3

CH	Chiltern Hills
DPD	Dorset and Purbeck Downs
EA	East Anglia
END	East North Downs
L	Lincolnshire
WND	West North Downs
Y	Yorkshire

Notes:

Based on Edmonds C N : 2001 :
Predicting natural cavities in chalk
Geological Society, London, Engineering Special
Publications, Vol 18, pp 29-38

Project Land Adj. Park Lane, Charvil
Project No. ,25-07-12
Carried out for Bellway Homes

Table

1
(Sheet 1 of 3)

Natural Cavities Risk Assessment

			Score	
G1 - Chalk lithostratigraphic Factor				
Upper Chalk	20	y	20	
Middle Chalk	2			
Lower Chalk	1			
G1 Total			20	
G2 - Post Cretaceous Cover Deposit Factor				
Gc	Tertiary cover deposit present with or without superficial Quaternary cover	14	y	14
	Quaternary cover deposit only present	6		
	No cover and <200m from a Tertiary or Quaternary cover deposit margin	2		
	No cover and >200m from a Tertiary or Quaternary cover deposit margin	1		
G2-Gc Total			14	
Gr	Tertiary cover deposit present:		y	
	Reading Beds or Woolwich Beds (all regions)	20		20
	Thanet Beds (WND, END regions)	15		
	Crag (EA region)	8		
	Thicker Tertiary sequences involving Thanet Beds overlain by Woolwich/Reading Beds and Blackheath Beds and disturbed Blackheath Beds (WND region)	4		
	Thicker Tertiary sequences involving Reading Beds overlain and overstepped by London Clay and Bagshot Beds (DPD region)	2		
	Quaternary cover deposit present:			
	Proto-Thames and Proto-Solent terrace gravels (CH and DPD regions)	20		
	Alluvial deposits (all regions) (only applicable to seasonal drainage directed across Chalk (Category 2) of topographic relief and surface drainage/subsurface infiltration factor (H ₂))	13		
	Alluvial deposits (all regions) (any topographic relief and surface drainage/subsurface infiltration conditions except above)	1		
	Glacial deposits (CH, EA, L, Y regions)	12	y	
	Low level fluvial terrace gravels or valley gravel (all regions)	6		6
	High level fluvial terrace gravels or plateau gravel (all regions)	6		
	Clay with flints (all regions)	3		
	Brickearth (all regions)	1		
	Solifluction deposits (all regions)	1		
	No cover (topsoil only) (all regions)	0		
G2-Gr Total				26
Gf	Reading Beds feathering margin	3	y	3
	Thanet Beds feathering margin	4		
	Crag feathering margin	2		
	Tertiary margins where thick Tertiary sequences occur (WND, DPD regions)	1		
	Quaternary deposits feathering margin	2	y	
	Exception to above for alluvial deposits where seasonal drainage is not directed across Chalk (Category 2) of topographic relief and surface drainage/subsurface infiltration factor (H ₂)	0		
	No cover deposit (topsoil only)	0		
	No feathering margins	0		0
G2-Gf Total			3	
G2 Total			43	

Notes:	Project	Land Adj. Park Lane, Charvil	Table
Based on Edmonds C N : 2001 : Predicting natural cavities in chalk Geological Society, London, Engineering Special Publications, Vol 18, pp 29-38	Project No. Carried out for	,25-07-12 Bellway Homes	1 (Sheet 2 of 3)

Natural Cavities Risk Assessment



H1 - Water Table Level Factor

- a* No cover deposit present, water table below Chalk surface level
- b* No cover deposit present, water table close to or at Chalk surface level
- c* Cover deposit present, water table below Chalk/cover deposit interface
- d* Cover deposit present, seasonal water table level fluctuation causes water table to rise above Chalk/cover deposit interface in wet season
- e* Cover deposit present, water table normally at or above Chalk/cover interface
- f* As above, but if artificial groundwater lowering to take place
- g* Artesian groundwater conditions present in cover deposit overlying Chalk

Score		
10		
1		
10		
2		
1	y	1
3		
0		
H1 Total		1

H2 - Topographic Relief and Surface Drainage/Subsurface Infiltration Factor

Category 1 - Seasonal/permanent surface drainage and subsurface infiltration directed onto/into Chalk

- Terrain Unit 1 - Hillside or valley side slope
- Terrain Unit 2 - Minor channel to major valley floor
- Terrain Unit 3 - Hilltop or flatter relief areas

Category 2 - Seasonal surface drainage and subsurface infiltration directed towards/onto cover deposit from Chalk

- Terrain Unit 1 - Hillside or valley side slope
- Terrain Unit 2 - Minor channel to major valley floor
- Terrain Unit 3 - Hilltop or flatter relief areas

Category 3 - Seasonal/permanent surface drainage and subsurface infiltration directed across Chalk (may be covered by topsoil and/or solifluction deposits or alluvium in floors of seasonal/permanent streams

- Terrain Unit 1 - Hillside or valley side slope
- Terrain Unit 2 - Minor channel to major valley floor
- Terrain Unit 3 - Hilltop or flatter relief areas

6		
10	y	10
4		
1		
2		
1		
1		
3		
1		
H2 Total		10

GM1 - Former Surface Water Drainage Path Factor

- Proto-Solent (DPD region)
- Proto-Thames corridor (CH region) but not applicable to following:
 - where glacial deposits directly overlie Chalk
 - where surface drainage/subsurface infiltration is directed off the Chalk towards/onto Tertiary cover
- Outside the above proto-river corridors

10		
10		
0		
0		
0	y	0
GM1 Total		0

GM2 - Glaciation Factor

- Glacial deposits directly overlie Chalk (CH, EA, L, Y regions)
- Glacial deposits overlie Crag upon Chalk (EA region)
- Glacial deposits overlie Reading Beds and/or proto-Thames terrace gravels upon Chalk (CH region)
- Glacial deposits absent (CH, EA, L, Y regions)
- Extra-glacial areas

5		
3		
0		
0	y	0
0		
GM2 Total		0

Notes:

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(Sheet 3 of 3)