

Site Details:

HULBERT ROAD, HAVANT,
PO9 3QJ

Client Ref: C20-363
Report Ref: GS-6807381
Grid Ref: 469449, 108137

Map Name: County Series

Map date: 1897

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
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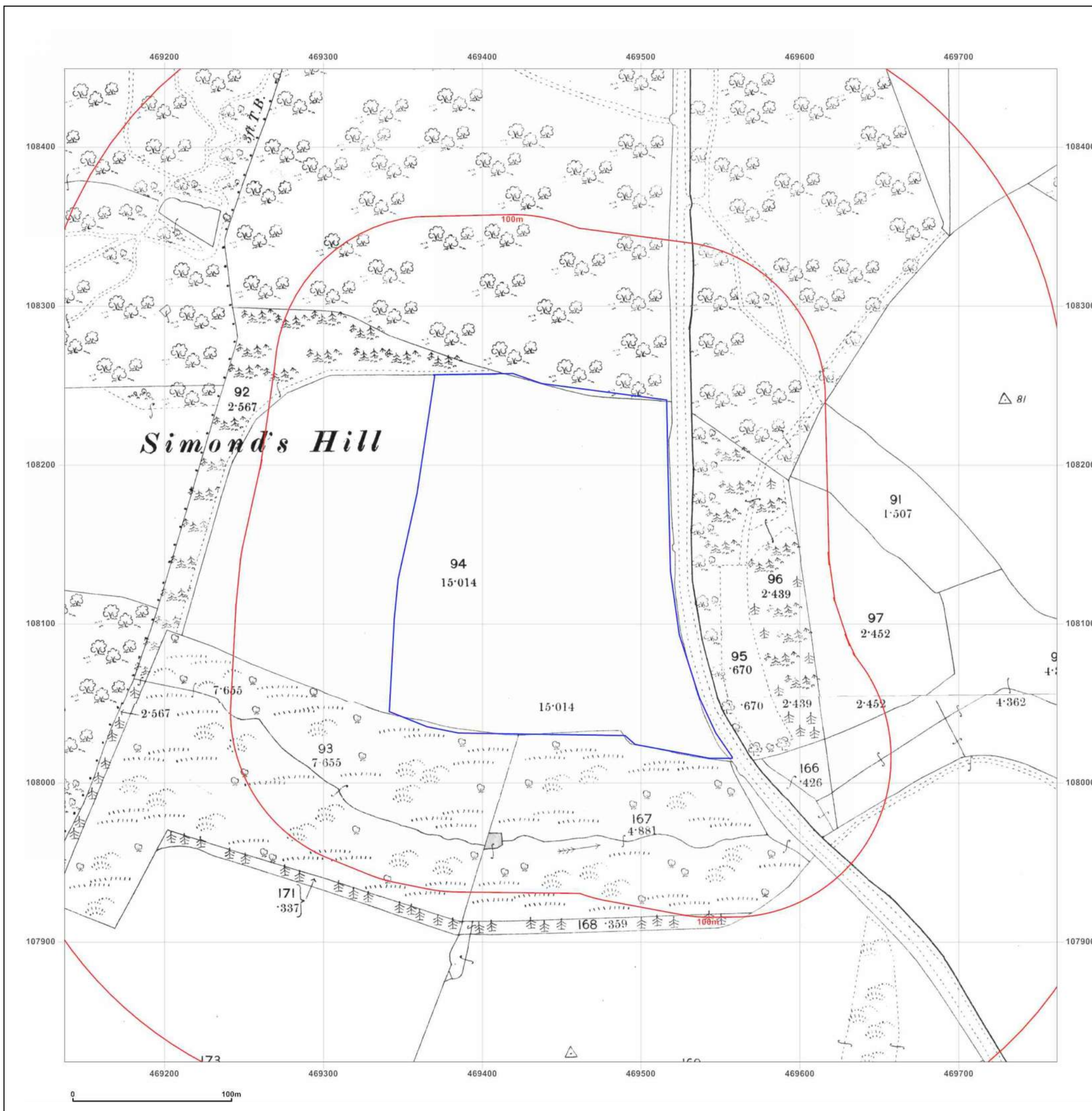


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Production date: 22 June 2020

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Site Details:

HULBERT ROAD, HAVANT,
PO9 3QJ

Client Ref: C20-363
Report Ref: GS-6807381
Grid Ref: 469449, 108137

Map Name: County Series

Map date: 1908-1909

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1909
Edition N/A
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Levelled N/A

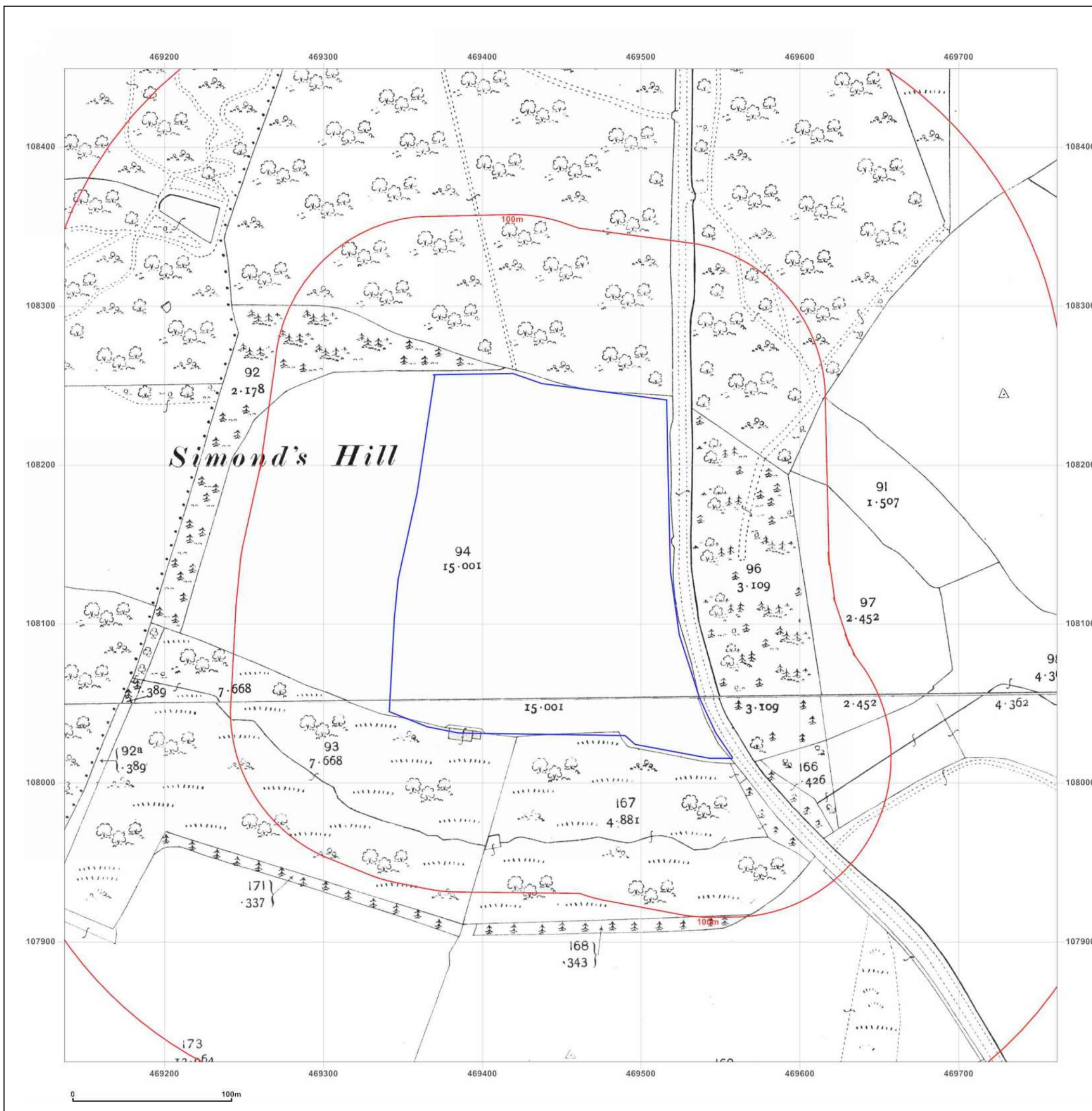


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Site Details:

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PO9 3QJ

Client Ref: C20-363
Report Ref: GS-6807381
Grid Ref: 469449, 108137

Map Name: County Series

Map date: 1932

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1932
Edition N/A
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Surveyed 1932
Revised 1932
Edition N/A
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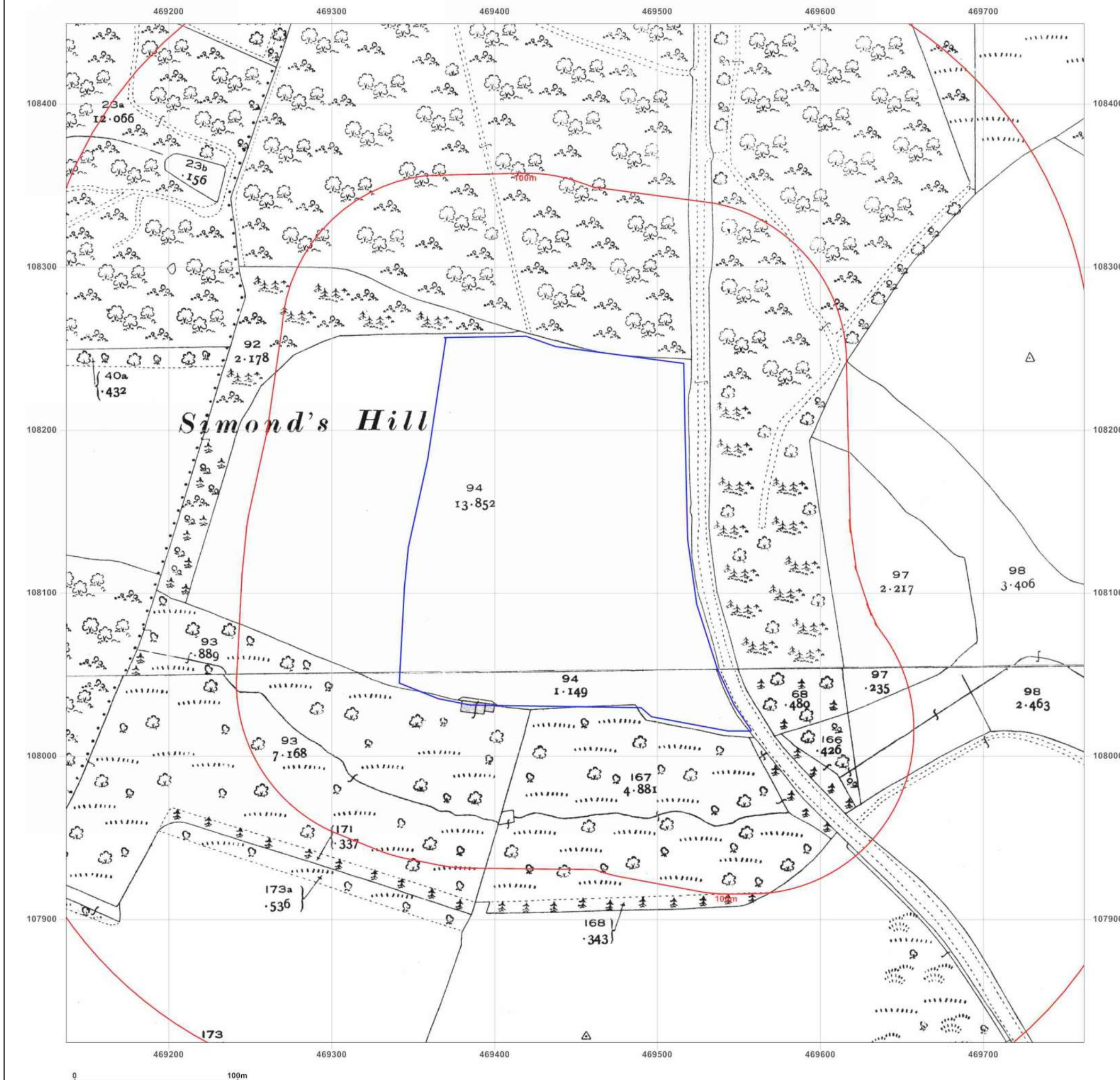


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Site Details:

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PO9 3QJ

Client Ref: C20-363
Report Ref: GS-6807381
Grid Ref: 469449, 108137

Map Name: County Series

Map date: 1937-1939

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1939
Revised 1939
Edition N/A
Copyright N/A
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Surveyed 1937
Revised 1937
Edition N/A
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Levelled N/A

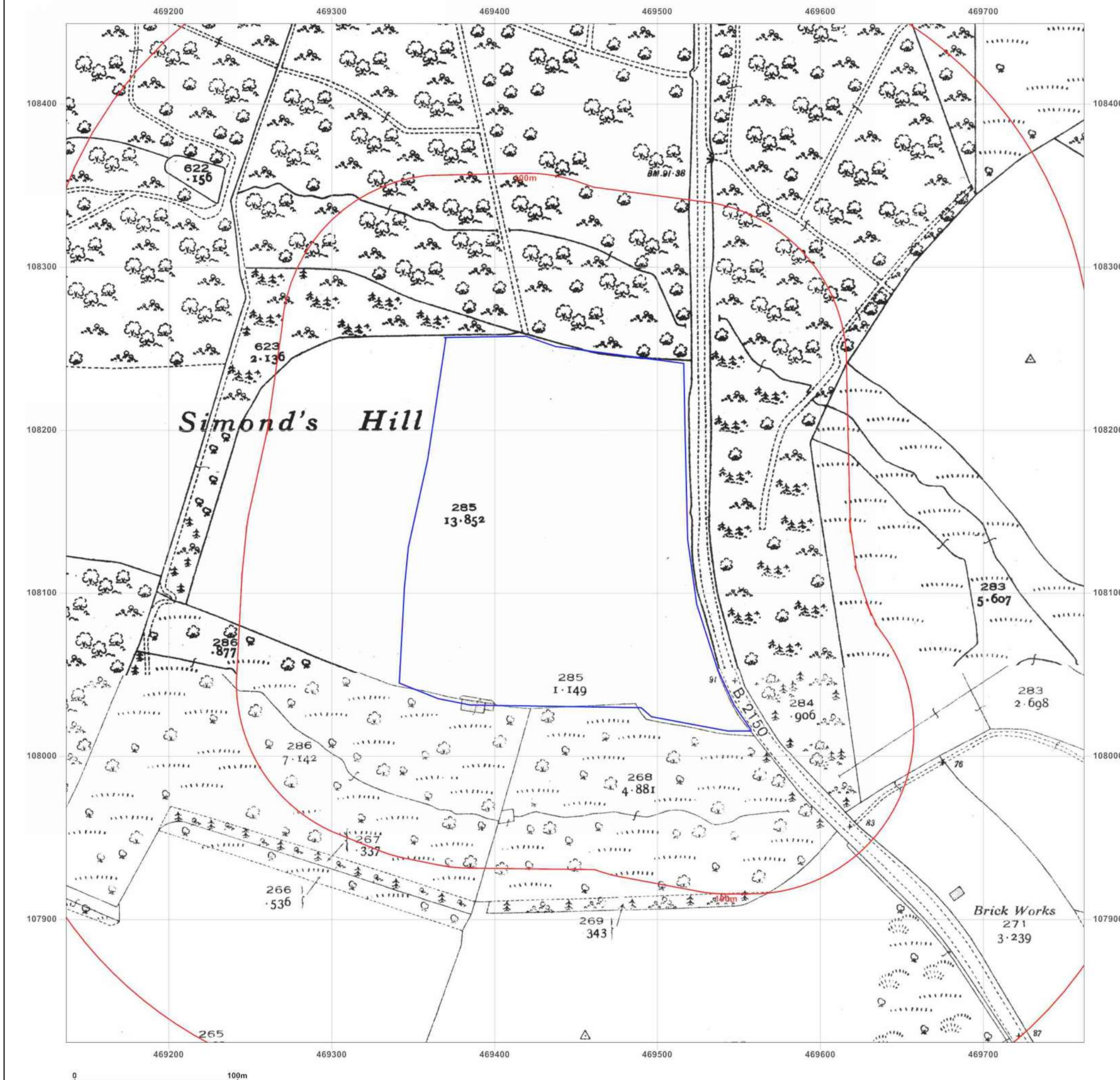


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Site Details:

HULBERT ROAD, HAVANT,
PO9 3QJ

Client Ref: C20-363
Report Ref: GS-6807381
Grid Ref: 469449, 108137

Map Name: National Grid

Map date: 1965-1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1966
Levelled 1958

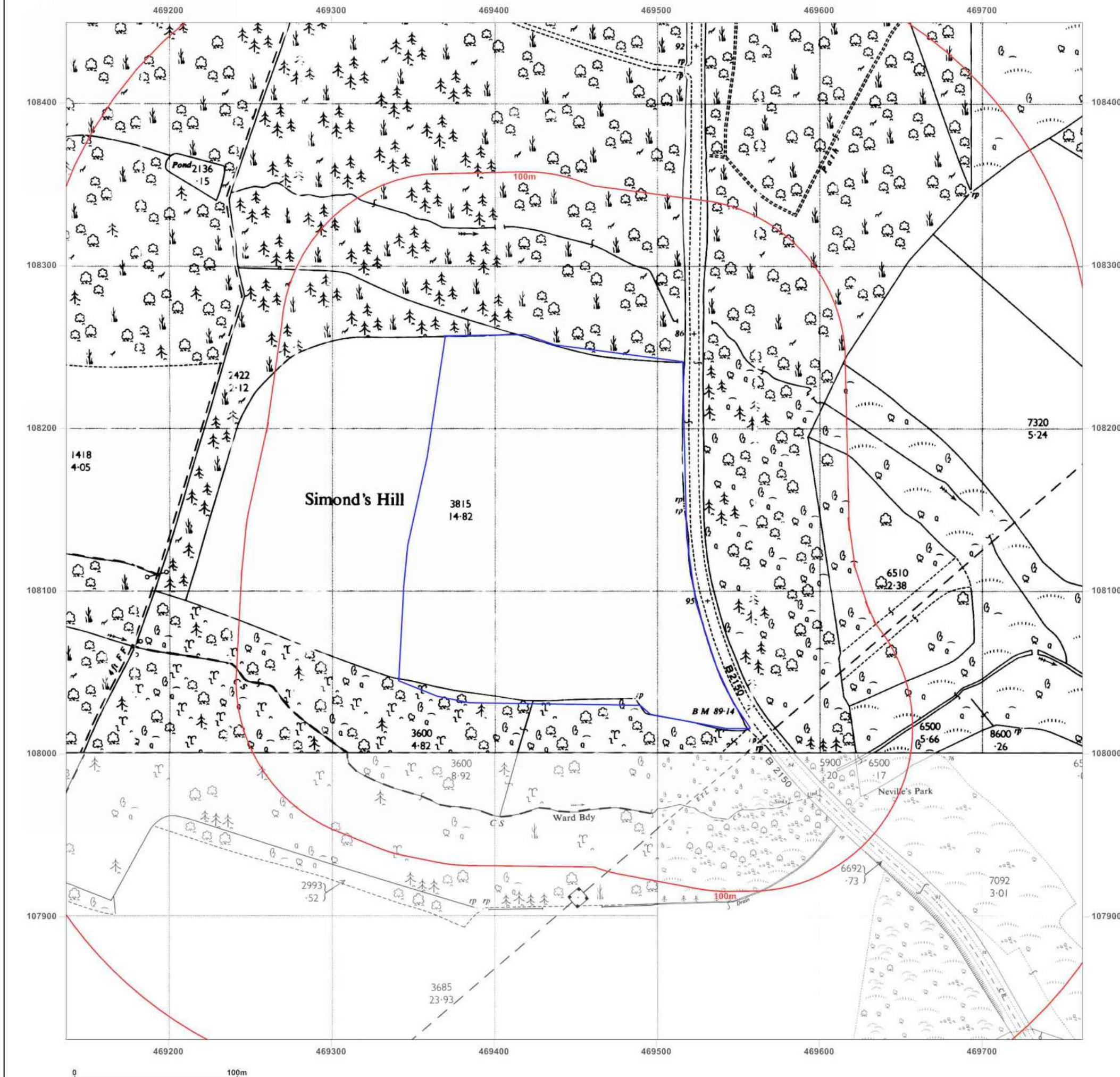


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Site Details:

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PO9 3QJ

Client Ref: C20-363
Report Ref: GS-6807381
Grid Ref: 469449, 108137

Map Name: National Grid

Map date: 1965-1967

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1965
Revised 1965
Edition N/A
Copyright 1966
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

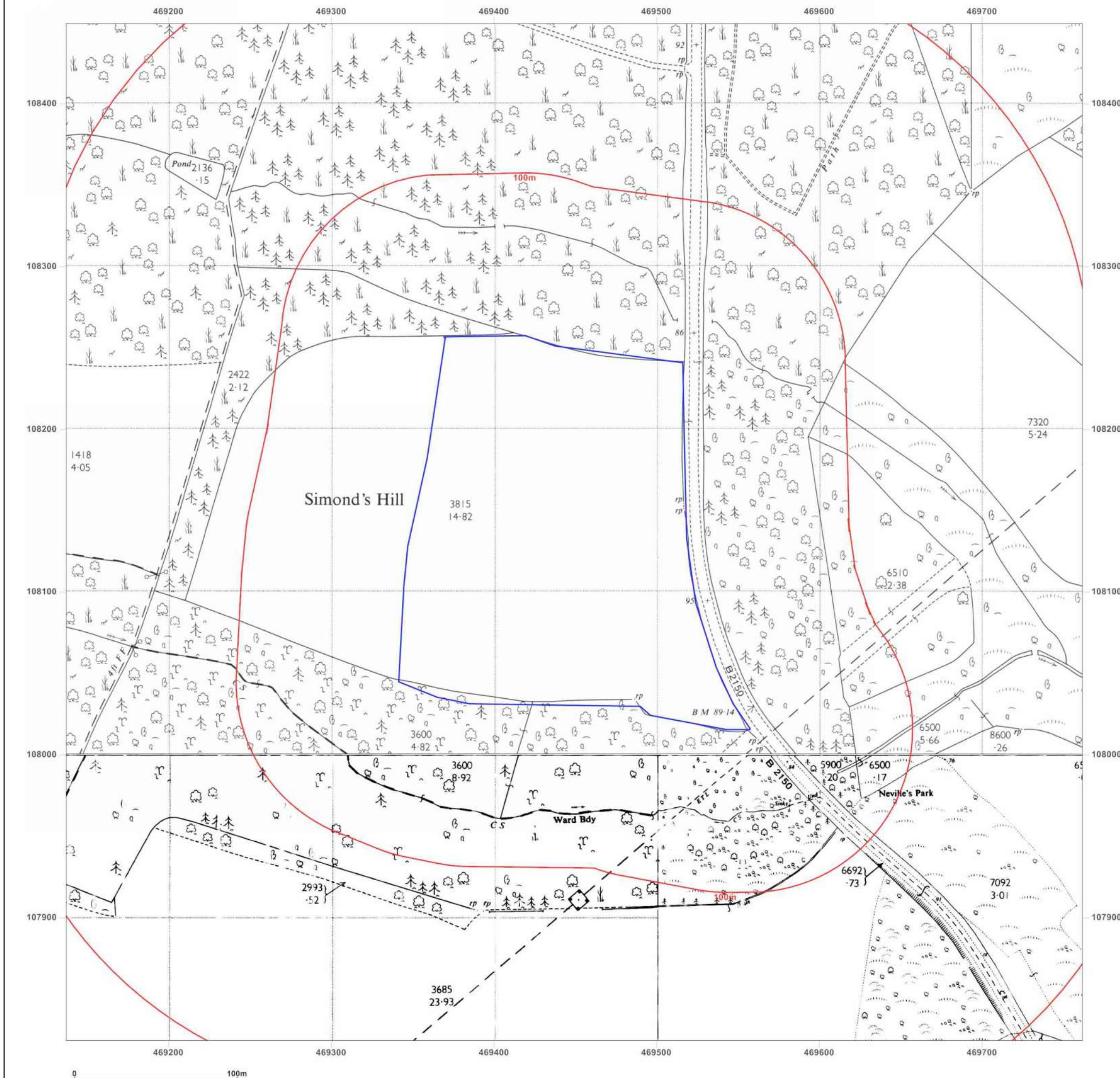


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Site Details:

HULBERT ROAD, HAVANT,
PO9 3QJ

Client Ref: C20-363
Report Ref: GS-6807381
Grid Ref: 469449, 108137

Map Name: National Grid

Map date: 1973-1975

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1973
Revised 1973
Edition N/A
Copyright 1974
Levelled 1958

Surveyed 1973
Revised 1973
Edition N/A
Copyright 1973
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Surveyed 1957
Revised 1974
Edition N/A
Copyright 1975
Levelled 1958

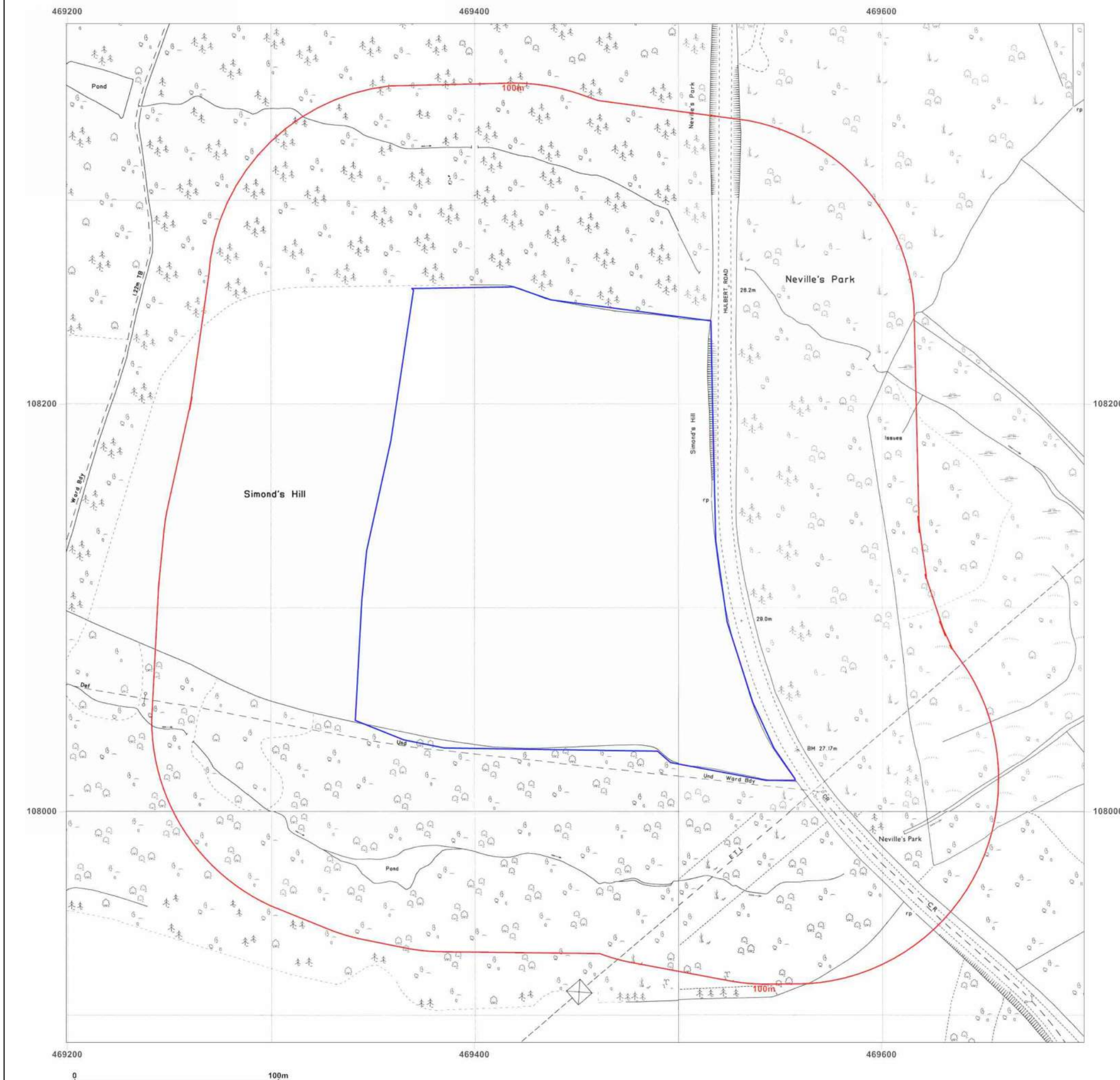


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Site Details:

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PO9 3QJ

Client Ref: C20-363
Report Ref: GS-6807381
Grid Ref: 469449, 108137

Map Name: National Grid

Map date: 1974-1979

Scale: 1:1,250

Printed at: 1:2,000



		Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A
		Surveyed 1957 Revised 1978 Edition N/A Copyright 1979 Levelled 1958

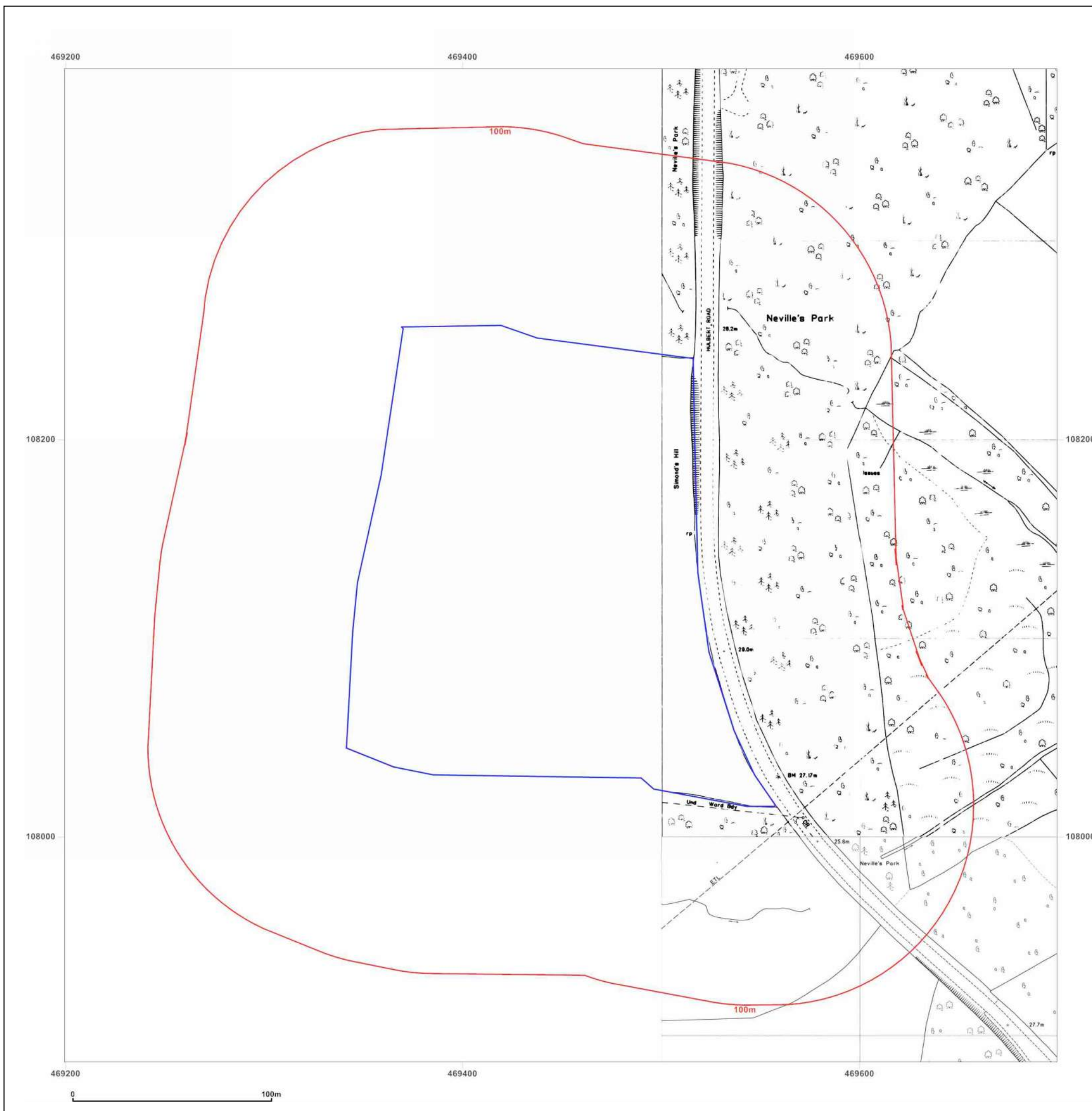


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Site Details:

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PO9 3QJ

Client Ref: C20-363
Report Ref: GS-6807381
Grid Ref: 469449, 108137

Map Name: National Grid

Map date: 1984-1985

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
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Site Details:

HULBERT ROAD, HAVANT,
PO9 3QJ

Client Ref: C20-363
Report Ref: GS-6807381
Grid Ref: 469449, 108137

Map Name: National Grid

Map date: 1987-1990

Scale: 1:1,250

Printed at: 1:2,000



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Revised N/A
Edition N/A
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Surveyed 1958
Revised 1990
Edition N/A
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Site Details:

HULBERT ROAD, HAVANT,
PO9 3QJ

Client Ref: C20-363
Report Ref: GS-6807381
Grid Ref: 469449, 108137

Map Name: National Grid

Map date: 1990-1993

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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Levelled N/A

Surveyed 1958
Revised 1990
Edition N/A
Copyright 1990
Levelled 1958

Surveyed 1993
Revised 1993
Edition N/A
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Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
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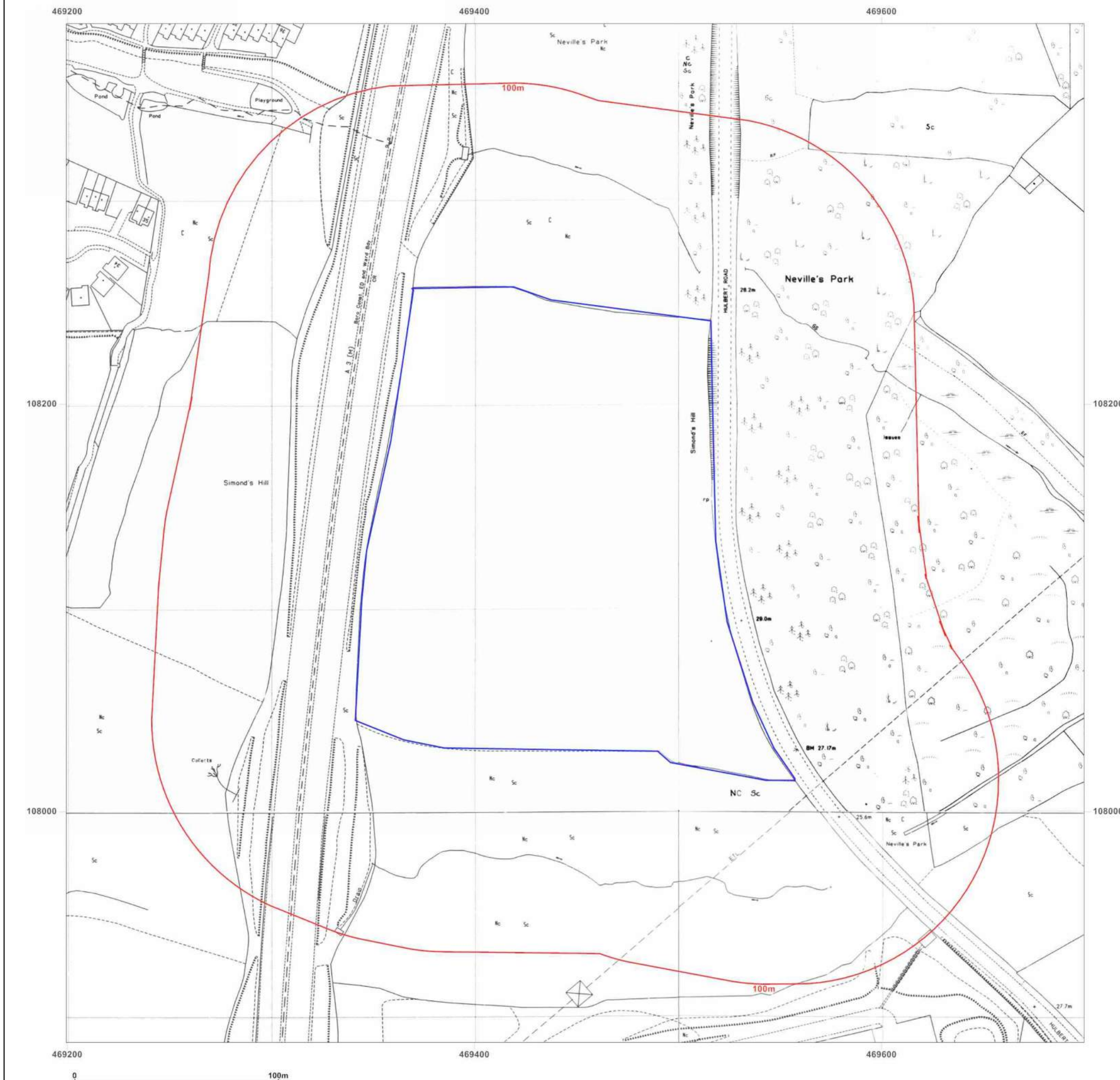


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Site Details:

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PO9 3QJ

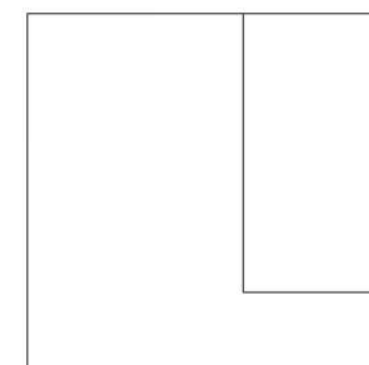
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Report Ref: GS-6807381
Grid Ref: 469449, 108137

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
Copyright 1993
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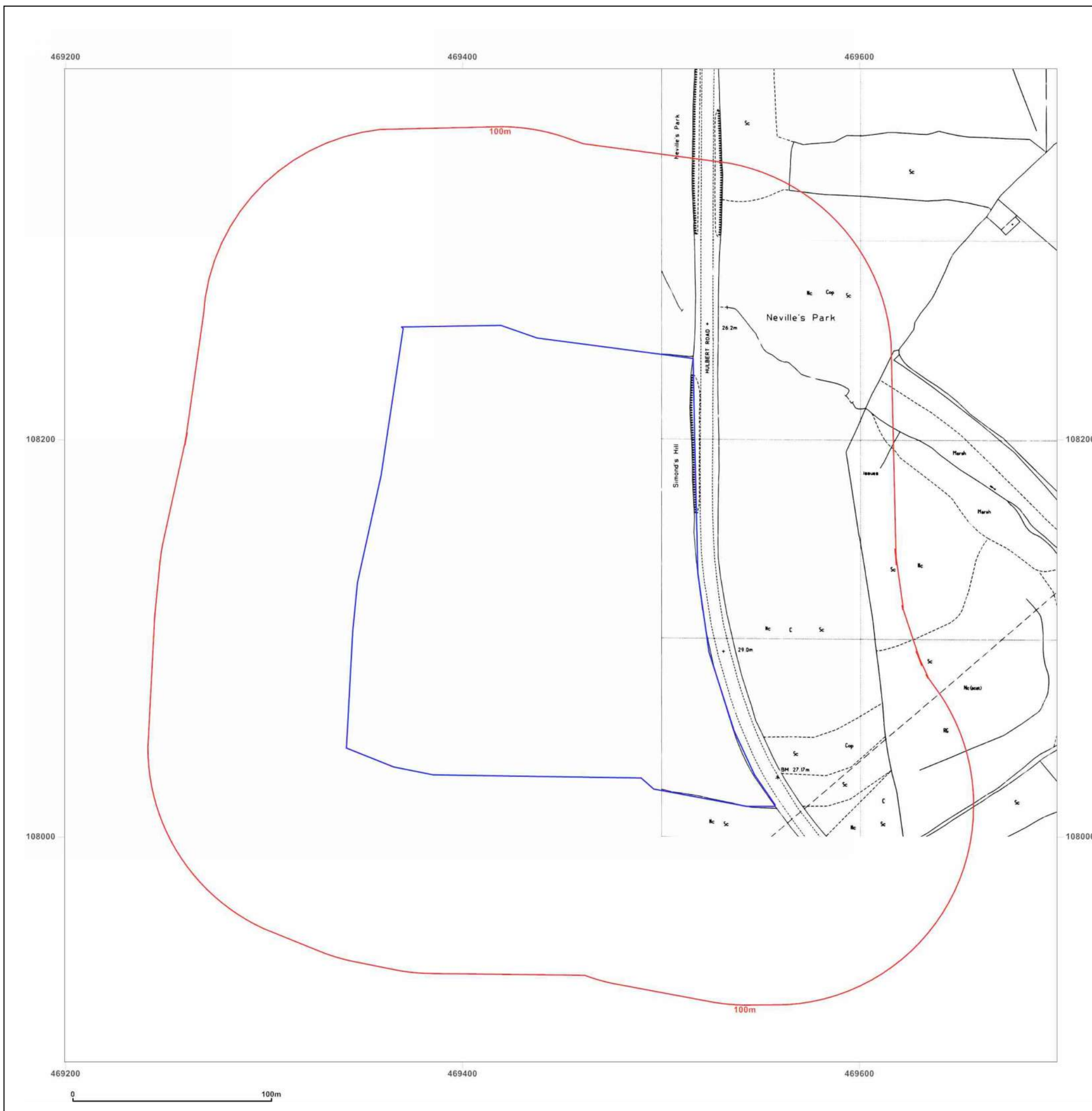


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Site Details:

HULBERT ROAD, HAVANT,
PO9 3QJ

Client Ref: C20-363
Report Ref: GS-6807381
Grid Ref: 469449, 108137

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003

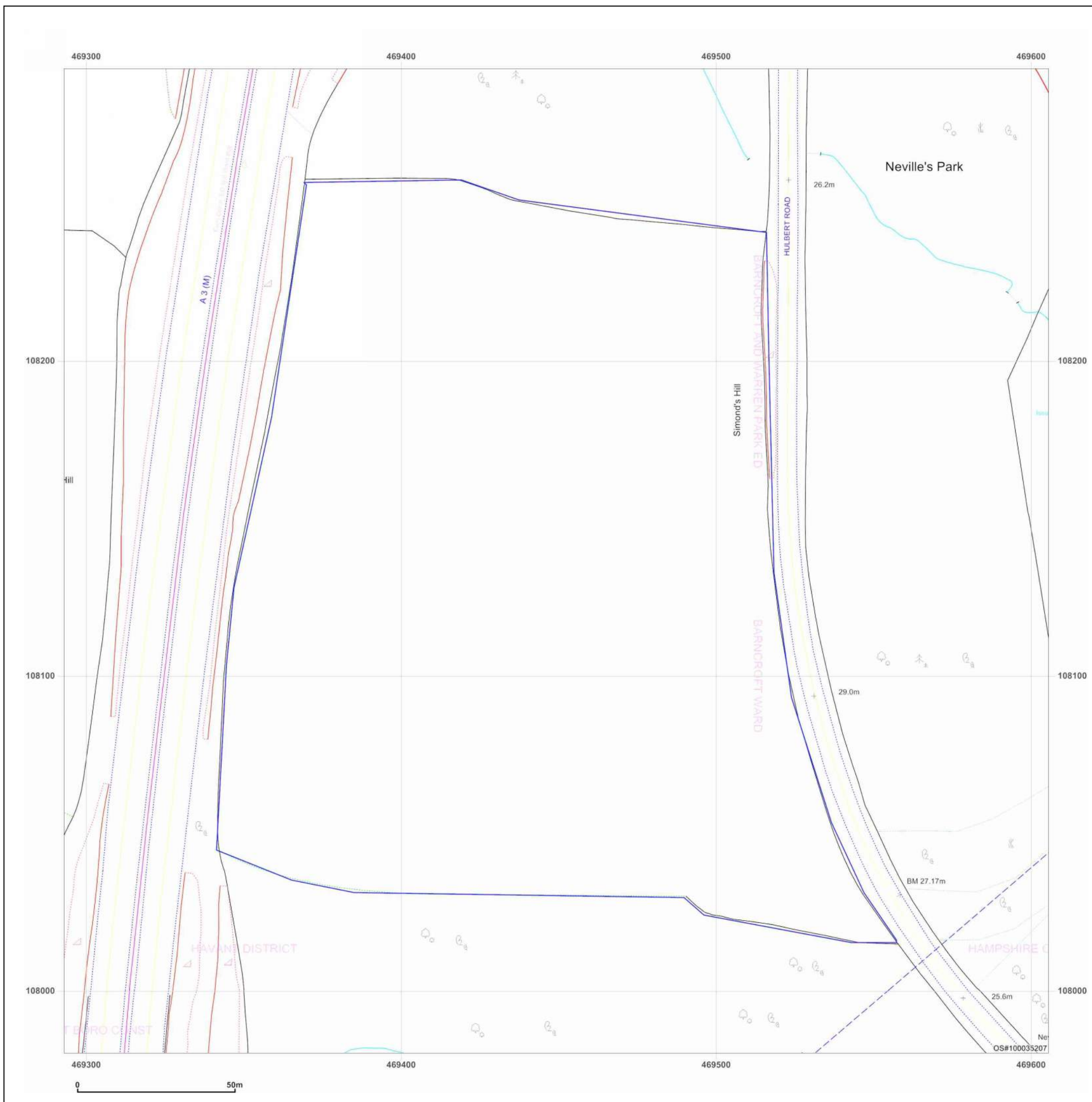


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Production date: 22 June 2020

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APPENDIX E – HISTORICAL BOREHOLE LOGS

ND ENGINEERING LIMITED
Way, Borehamwood,
shire OL953-5661

1" : 316

SU 60 N.E/24
NGR 693.080

GROUND LEVEL 29.11

DATE STARTED 20.12.71

DATE FINISHED 21.12.71

RD OF BOREHOLE No. 172 sheet 1 of 1

Water Levels (m)	Depth of Casing (m)	Sample / Core Recovery				Leg- end	Depth (Level) (m)	Thickness (m)	Description of Strata
		From (m)	To (m)	Type or Test	No. of Blows % Rec- overy				
		0.00	0.15	D			(29.11)	0.15	Brown silty TOPSOIL
		0.15	0.60	U	23		(29.96)		
		0.60		D					Brown, grey, black firm silty sand; CLAY with a few flint stones and chalk pebbles
		1.60		D			2.15 (26.96)	2.00	
		2.15	2.40	U					
		2.40		D					Grey stiff fissured silty CLAY with sandy patches
		3.60		D					
	4.00	4.15	4.60	U	46			3.75	
	4.00	4.60		D					
		5.55	6.00	U	55		6.00 (28.11)		
	4.00	6.00		D					B.H. completed

HEAD

LOW
CLAY

U	disturbed sample	D	water sample	W	bulk sample	A	penetration test	SPT (C.P.T)	TYPE OF BORING Shell & Auger
NOTE: N = number of blows per ft penetration in standard penetration test Overflowing on morning of 21.12.71 Standpipe inserted at 3.00m Type A on 21.12.71 Highest reading 0.28 observed on 12.1.72									DIAMETER 204mm → 6.00m CASING 204mm → 4.00m
ROAD A3. HORNDEN - BROADMARSH							REPORT No. F3P4796	BOREHOLE No. 172	

ENGINEERING LIMITED
 Day, Borehamwood,
 Tel 01-953-5661

1: 316

SU 60 N.E / 25
 NGR 6933.0808
 GROUND LEVEL 37.22
 DATE STARTED 17.12.71
 DATE FINISHED 17.12.71

OF BOREHOLE No. 173, sheet 1 of 1

Water levels (m)	Depth of Casing (m)	Sample / Core Recovery				Leg- end	Depth (Level) (m)	Thickness (m)	Description of Strata
		Depth		Type or Test	No. of Blows % Rec- overy				
		From (m)	to (m)						
		0.00	0.30	D			37.22 33.0 (36.92)	0.30	TOPSOIL
		0.30	0.75	U	25				Brown some grey firm to soft becoming firm very sandy, silty CLAY
		0.75		D					
		1.75		D				34.0	
		2.75	3.20	U	39				
		3.20		D			3.70 (3.52)		
		3.55	4.00	U					Brownish grey firm silty sandy CL
		4.00		D					
		4.20	4.70	U	46			1.00	
	NIL	4.70		D			4.70 (34.52)		
									B.H. completed

Low/row
CLAY

U	disturbed sample	D	water sample	W	bulk sample	B	penetration test	SPT CPT	TYPE OF BORING Shell & Auger
NOTE: N = number of blows per ft penetration in standard penetration test Standpipe inserted at 3.00m Type A on 17/12/71 Highest reading 0.42m observed on 21/2/72									DIAMETER 204mm → 4.70m
									CASING NIL
ROAD A3 HORNDEAN - BROADMARSH							REPORT No. F3P 4796	BOREHOLE No. 173	

ENGINEERING LIMITED
 (Way, Borehamwood,
 Hshire 01-953-5661

1:316

SU 60 N.E/26
 NGR 6932.0818
 GROUND LEVEL 39.20
 DATE STARTED 17.12.71
 DATE FINISHED 18.12.71

ROAD OF BOREHOLE No. 174 sheet 1 of 1

Water Levels (m)	Depth of Casing (m)	Sample / Core Recovery		Type or Test	No. of Blows % Recovery	Leg- end	Depth (Level) (m)	Thickness (m)	Description of Soil
		From (m)	To (m)						
		0.30	0.45	D			39.75 39.75	0.15	TOPSOIL
		0.55	1.00	U	23				Brown firm silty and sandy CLAY
		1.00		D					
		2.00	2.15	D					
		3.00	3.00	D				4.05	
	NIL	2.55	3.00	U	30				Dark grey becoming brownish firm friable silty sandy CLAY
	NIL			D					
		4.00	4.15	D			4.20 35.55		
		4.55	5.00	U	45				
		5.00		D					
		6.00	6.15	D				5.80	
		6.55	7.00	U	36				
		7.00		D					
	NIL	7.55	8.00	U	41		8.00 31.75		B.H. completed
		8.00		D					

U	disturbed sample	D	water sample	W	bulk sample	B	penetration test	SPT CPT	TYPE OF BORING Shell & Auger
---	------------------	---	--------------	---	-------------	---	------------------	------------	---------------------------------

NOTE: N = number of blows per ft: penetration in standard penetration test

DIAMETER
 204mm → 8.00m

CASING
 NIL

ROAD A3 HORNDEN - BROADMARSH

REPORT No.
 F3P4796

BOREHOLE No.
 174

BGS ID: 419969 : BGS Reference:
SU60NE28
British National Grid (27700) :
469350,108250

[Report an issue with this borehole](#)

<<

< Prev

Page 1 of 1 ▾

Next >

>>

ND ENGINEERING LIMITED
Way, Bournemouth,
Dorset BH1 1JH
Tel: 01202 5661

1.316

SU 60 NE 122
NGR ~~78~~ 6935 0825
GROUND LEVEL 36.32
DATE STARTED 16.12.71
DATE FINISHED 16.12.71

RD OF BOREHOLE No. 176 sheet 1 of 1

Water Levels (m)	Depth of Casing (m)	Sample / Core Recovery		Type or Test	No. of Blows or % Recovery	Leg-end	Depth (Level) (m)	Thickness (m)	Description of Strata
		From (m)	To (m)						
		0.20	0.30	D			36.32 0.50 (35.82)	0.50	Brown firm sandy CLAY
		0.55	1.00	U D	19				Light brown firm slightly sandy CLAY
		2.00	2.15	D			2.50 (33.82)	2.00	
		2.55	3.00	U D	25				Brown becoming brownish grey mottled firm fissured slightly and silty CLAY with sandy
		4.00	4.15	D				3.30	
		4.55	5.00	U D	31				
		6.00	6.15	D			5.80 (32.52)		Grey, some brownish grey becoming dark grey firm to friable fissured silty sandy CLAY
		6.55	7.00	U D	53				
		8.00	8.15	D				4.20	
		8.55	9.00	U D	46				
MLY	NIL	9.55	10.00	U D	40		10.00 (31.32)		B.H. completed

London
CLAY

U	disturbed sample	D	water sample	W	bulk sample	B	penetration test	SPT LPT	TYPE OF BORING Shell & Auger
NOTE: N = number of blows per ft penetration in standard penetration test Inserted piezometer at 3.00m Type B on 16.12.72 Highest reading 1.10m observed on 2.2.72.									
DIAMETER 204mm → 10.00m CASING NIL									
ROAD A3 HORNDEAN - BROADMARSH							REPORT No. F3P4796	BOREHOLE No. 176	

ND ENGINEERING LIMITED
Way, Borehamwood,
shire 01-953-5661

1": 316

SU 60 NZ 124
NGR 6938 0833
GROUND LEVEL 25.80
DATE STARTED 17.11.71
DATE FINISHED 22.11.71

RD OF BOREHOLE No. 177, sheet 1 of 2

Water levels (m)	Depth of Casing (m)	Sample / Core Recovery				Log- end	Depth (Level) (m)	Thickness (m)	Description of Strata
		From (m)	To (m)	Type or Test	No. of Blows % Rec- overy				
							(2.5.80)		
Water struck 25.79		0.35		D			0.25 (0.75)	0.25	Top Soil
		0.50	0.95	U	11		0.45 (1.25)	0.20	Brown mottled soft silty silty CLAY with roots
		1.00		W					
		1.50		D				1.50	Dark Grey mottled soft to firm very silty CLAY with roots
Casing Sealing Water DRY 6.45	1.80 2.00	2.00	2.45	U	27		1.95 (3.25)		
									Grey mottled friable, becoming fissured with depth silty CLAY
		3.00		D					
		4.00	4.45	U	27				
								5.85	
Casing Sealing Water		5.00		D					
DRY G.L.	5.30 5.30	6.00	6.45	U	36				
		7.00		D					
							7.80 (13.00)		
		8.00	8.45	U	41				Grey becoming Dark Grey friable fissured slightly silty CLAY with fossils and light silt veins at depth
		9.00		D					
		10.00	10.45	U	46			6.20	
		11.00							
		12.00	12.45	U	40			12.50 (13.30)	

HEAD

LONDON
CLAY

Continued on Sheet 2.

U	disturbed sample	D	water sample	W	bulk sample	B	penetration test	SPT CPT	TYPE OF BORING Shell Auger
NOTE: N = number of blows per ft penetration in standard penetration test									
Installed Standpipe Type A at 3.00 m on 21.11.71									DIAMETER 204mm 16.00m 177mm 20.0m
check reading 0.00									CASING 204mm 8.25m
ROAD A3 HORNDEAN - BROADMARSH							REPORT No. F3P4796	BOREHOLE No. 177	

AND ENGINEERING LIMITED
Way, Borehamwood,
shire 01-953-5661

1" : 316

SU 60 N.E/29
NGR 6938.0833
GROUND LEVEL 25.80

ORD OF BOREHOLE No. 177, sheet 2 of 2

DATE STARTED 17-11-71

DATE FINISHED 22-11-71

Water Levels (m)	Depth of Casing (m)	Sample / Core Recovery				Leg- end	Depth (Level) (m)	Thickness (m)	Description of Strata
		From (m)	To (m)	Type or Test	No. of Blows % Rec- overy				
Casing Sealing							12.50 (13.50)		Continued from Sheet 1
Water								6.20	As Above
DRY	8.25	13.00		D					
7.20	8.25						14.00 (11.80)		
		14.00	14.45	U	37				
		15.00		D					Dark Grey friable fissured CLAY with small fossils, becoming silty with depth
		16.00	16.45	U	39			6.00	
		17.00		D					
		18.00	18.46	U	40				
		19.00							
18.35	8.25	19.55	20.00	U	47		20.00 (5.80)		
0.00									B.H. Completed
2-11am									

U	disturbed sample	D	water sample	W	bulk sample	B	penetration test	SPT CPT	TYPE OF BORING
NOTE: N = number of blows per ft penetration in standard penetration test									
DIAMETER									
CASING									
ROAD A3 HORNDEAN - BROADMARSH							REPORT No. F3P4796	BOREHOLE No. 177	

316

RECORD OF BOREHOLE 10

SU 60 NE/58
N4R 6933.0815

38.60m above O.D.

Dia. of boring: 0.20m

Shell and Auger

Lining tubes: Not used

Samples		Change of Strata			Description of Strata
Depth	Type	Legend	Depth	O.D. Level	
0.50 - 0.93	U(4) D		0.20	38.40	TOP SOIL
0.93					
1.50	D		1.50	37.10	
2.00 - 2.43	U(4) D				
2.43					
2.50	BD				
3.00	D				
			4.30	35.60	
4.00 - 4.43	U(4) D				
4.43					
5.00	D				
6.00	D				
7.00	D				
7.50 - 7.93	U(4) D		8.00	30.60	
7.93					

LONDON
CLAY

- Size of sample:
- 1. 122mm (4in.) dia. undisturbed sample
 - 2. 122mm (4in.) dia. disturbed sample
 - 3. 76mm (3in.) dia. disturbed sample
 - 4. 50mm (2in.) dia. test
 - 5. Standard penetration test
 - 6. Dynamic cone penetration test
 - 7. Test
 - 8. No. of blows for 300mm in earth column
 - 9. No. of blows for 100mm in earth column

Remarks: (Observations on ground-water, etc.)

A seepage of ground-water was observed at 2.00m below ground level. A standpipe was inserted to 3.00m. Type A on 30/6/71.
Highest reading 1.25 observed on 12/7/71.

AC/11 HANDEAN BROADBURN

P. 10

GROUND EXPLORATIONS Ltd. 68/76 Alpha Street, Slough, Bucks., SL1 1QX								Borehole No 18		
Contract Waterlooille		SU 60 NE / 193		Started 29.5.74.		Completed 29.5.74.		Diameter 150 mm		
Location Stakes Hill Lodge		Report No 6290/DRW-C/IAB		NGR 6932 0833		Ground Level 28.000 m O.D.				
Description	Legend	Thickness m	Depth m	Level m	Sample Type	Sample No	Depth m	C/O (N)	M/C (G/Sa/Si)	Water
(1)		0.3	0.3	27.7	W	673	0.2			
Soft brown silty PEAT		0.4	0.7	27.3	D	664	0.5			
(2)		0.2	0.9	27.1	D	665	0.8			
Soft organic clayey SILT with traces of peat, some rootlets and stones		1.5			U	668	0.9	10/0	HEAD	WS 0.8 m an 2.9 m SWL. G.L.
			2.4	25.6	D	669	2.0			
					D	670	2.4			
(3)		0.6	3.0	25.0	U	671	2.5	98/0	LONDON	
					D	672	2.9		CLAY	
(1) Very soft black PEAT with rootlets.										
(2) Black silty PEAT.										
(3) Stiff grey-blue silty CLAY to clayey SILT with peat near top.										
							HAND AUGER (too soft ground to support Wayfarer Rig)			
							Date	Depth	Casing	
							29.5.74.	3.0 m	3.0 m of 150	



APPENDIX F – UXO PRE DESK STUDY ASSESSMENT

Pre-Desk Study Assessment

Site:	Hulbert Road, Havant, Hampshire
Client:	WYG
Contact:	Emily Holcroft
Date:	29 th June 2020
Pre-WWI Military Activity on or Affecting the Site	None identified.
WWI Military Activity on or Affecting the Site	None identified.
WWI Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Transport infrastructure and public utilities. ■ Anti-Aircraft (AA) guns.
WWI Bombing	None identified on the Site.
Interwar Military Activity on or Affecting the Site	None identified.
WWII Military Activity on or Affecting the Site	Records indicate that during preparations for D-Day in 1944, British and American troops were stationed at Staker's Hill, in the immediate vicinity of the Site.
WWII Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Transport infrastructure and public utilities. ■ Military barracks, camps and training areas. ■ AA and anti-invasion defences.
WWII Bombing Decoys (within 5km of Site)	7No. The nearest was located approximately 3.4km south of the Site.
WWII Bombing	During WWII the Site was located in the Urban District (RD) of Havant & Waterlooville, which officially recorded 423No. High Explosive (HE) bombs with a bombing density of 35 bombs per 405 hectares (ha). Readily available records have been found to indicate that several HE bombs fell in close proximity of the Site.
Post-WWII Military Activity on or Affecting the Site	None identified.
Recommendation	It is recommended that a detailed desk study is commissioned to assess, and potentially zone, the Unexploded Ordnance (UXO) hazard level on the Site.

This summary is based on a cursory review of readily available records. Caution is advised if you plan to action work based on this summary.

It should be noted that where a potentially significant source of UXO hazard has been identified on the Site, the requirement for a detailed desk study and risk assessment has been confirmed and no further research will be undertaken at this stage. It is possible that further in-depth research as part of a detailed UXO desk study and risk assessment may identify other potential sources of UXO hazard on the Site.



APPENDIX G – CIRIA C552 RISK METHODOLOGY

The following tables are derived from CIRIA C552 and have been used to define the risk rating presented in the Qualitative Risk Assessment matrix.

Classification of consequence

Classification	Definition
Severe	Short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short term risk of pollution (note; Water Resources Act contains no scope for considering significant pollution) of sensitive water resource. Catastrophic damage to building/property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem. (Note the definitions of ecological systems within the Draft Circular on Contaminated Land DETR, 2000).
Medium	Chronic damage to human health ('significant harm', as defined In DETR, 2000). Pollution of sensitive water resources (note; Water Resources Act contains no scope for considering significant pollution). A significant change in a particular ecosystem, or an organism forming part of such an ecosystem. (Note the definitions of ecological systems within the Draft Circular on Contaminated Land DETR, 2000).
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm', as defined In DETR, 2000). Damage to sensitive buildings/structures/services or the environment.
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.

Classification of probability

Classification	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 pollutant 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 event could occur. However, it is by no means certain that even over a longer period that such an event would take place, and is even 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 even in the very long term.

Matrix of consequence against probability to gain a risk classification

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