

Site Details:

SHINFIELD VIEW, SCHOOL
GREEN, SHINFIELD,
WOKINGHAM, RG2 9EH

Client Ref: R5017/JG/11/06/2025
Report Ref: GS-6NC-W4O-MTB-6WI
Grid Ref: 473365, 167887

Map Name: County Series

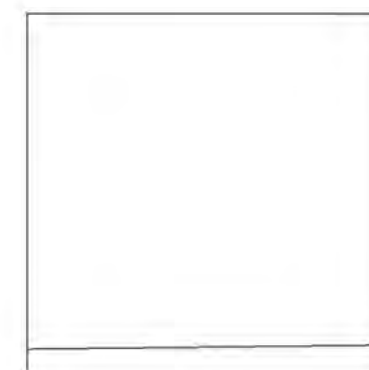
Map date: 1872

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1872
Revised 1872
Edition N/A
Copyright N/A
Levelled N/A

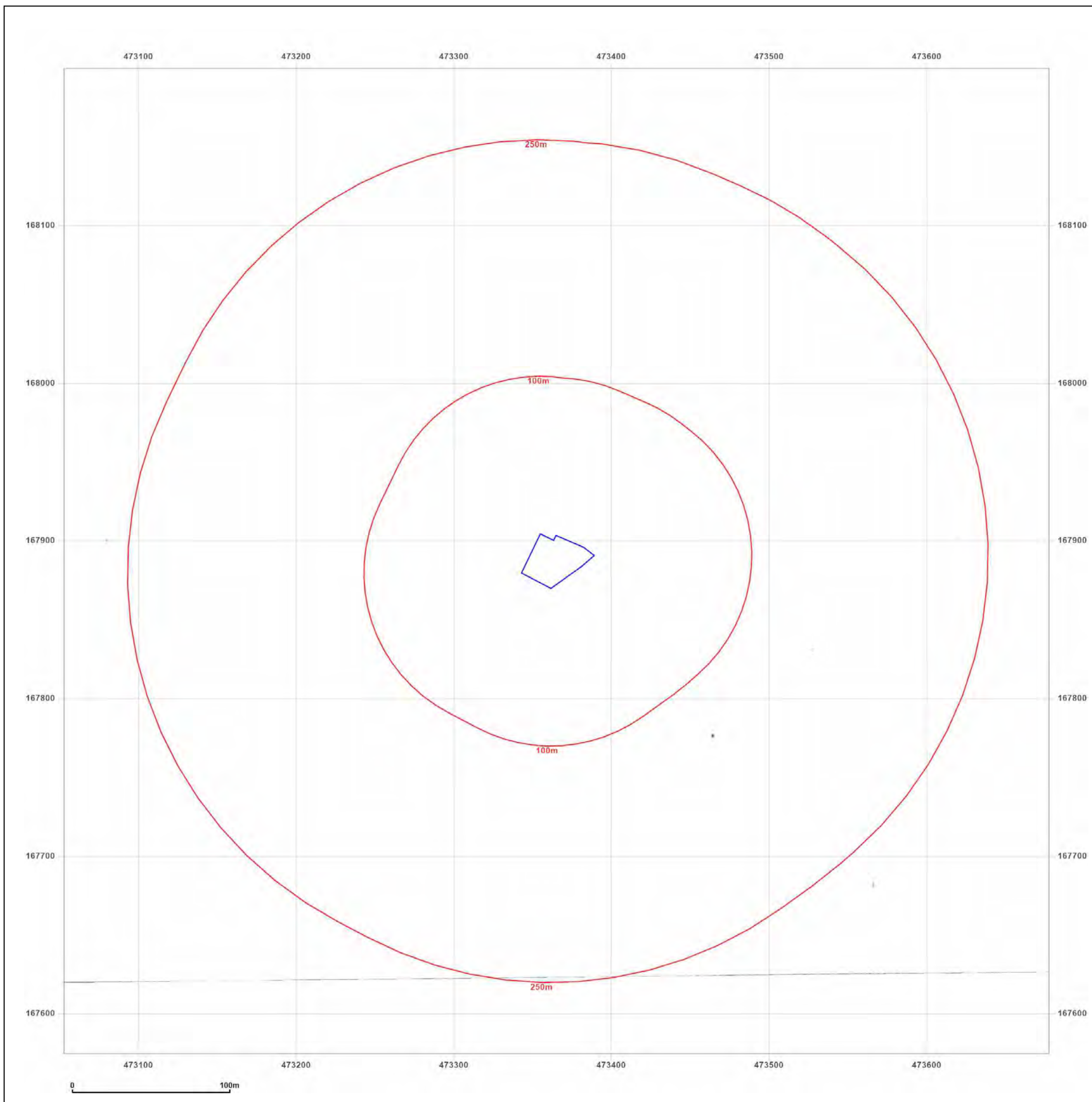


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Site Details:

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Client Ref: R5017/JG/11/06/2025
Report Ref: GS-6NC-W4O-MTB-6WI
Grid Ref: 473365, 167887

Map Name: County Series

Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500



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Surveyed 1899
Revised 1899
Edition N/A
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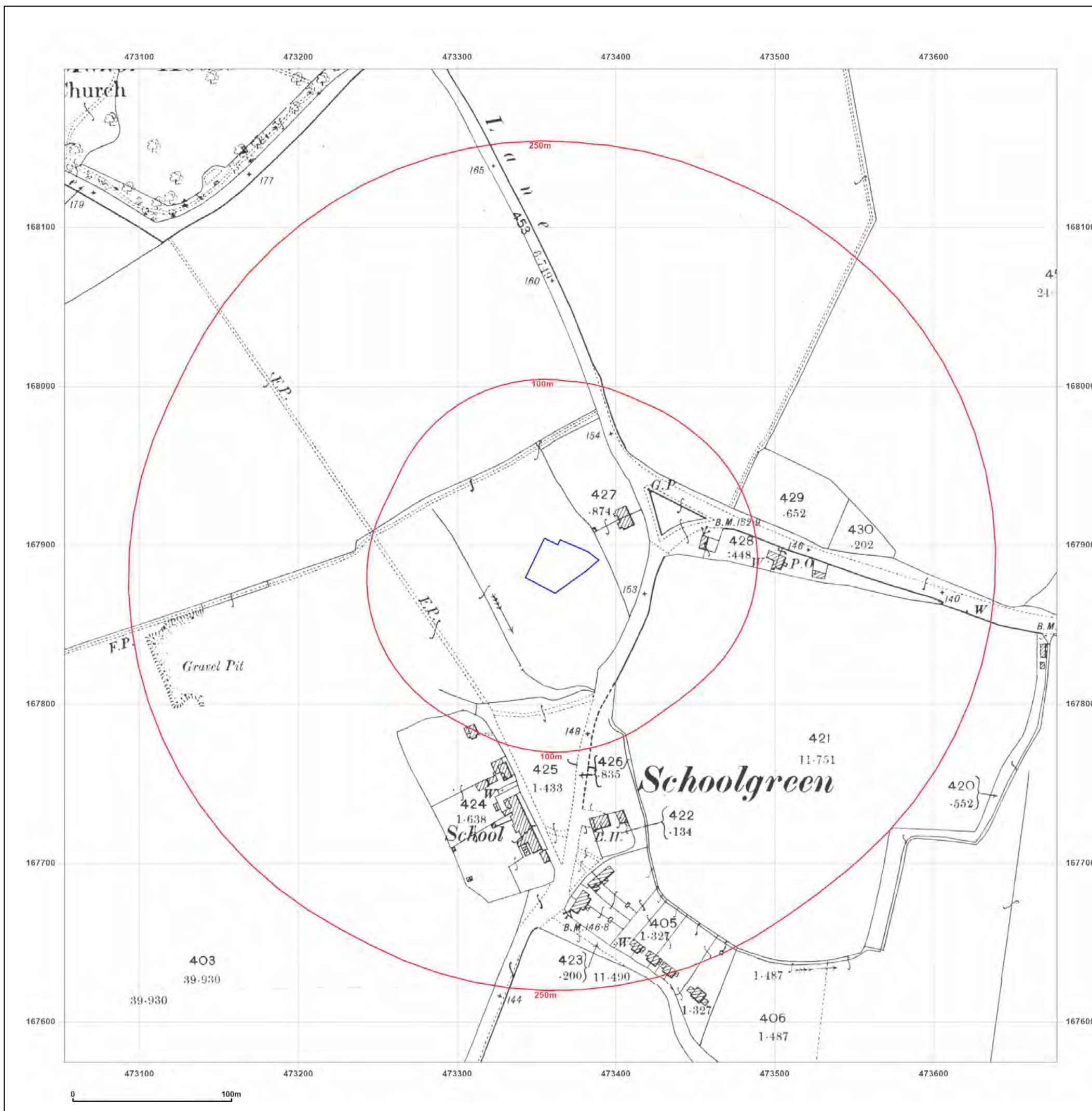


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Client Ref: R5017/JG/11/06/2025
Report Ref: GS-6NC-W4O-MTB-6WI
Grid Ref: 473365, 167887

Map Name: County Series

Map date: 1911

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1911
Edition N/A
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Surveyed 1911
Revised 1911
Edition N/A
Copyright N/A
Levelled N/A

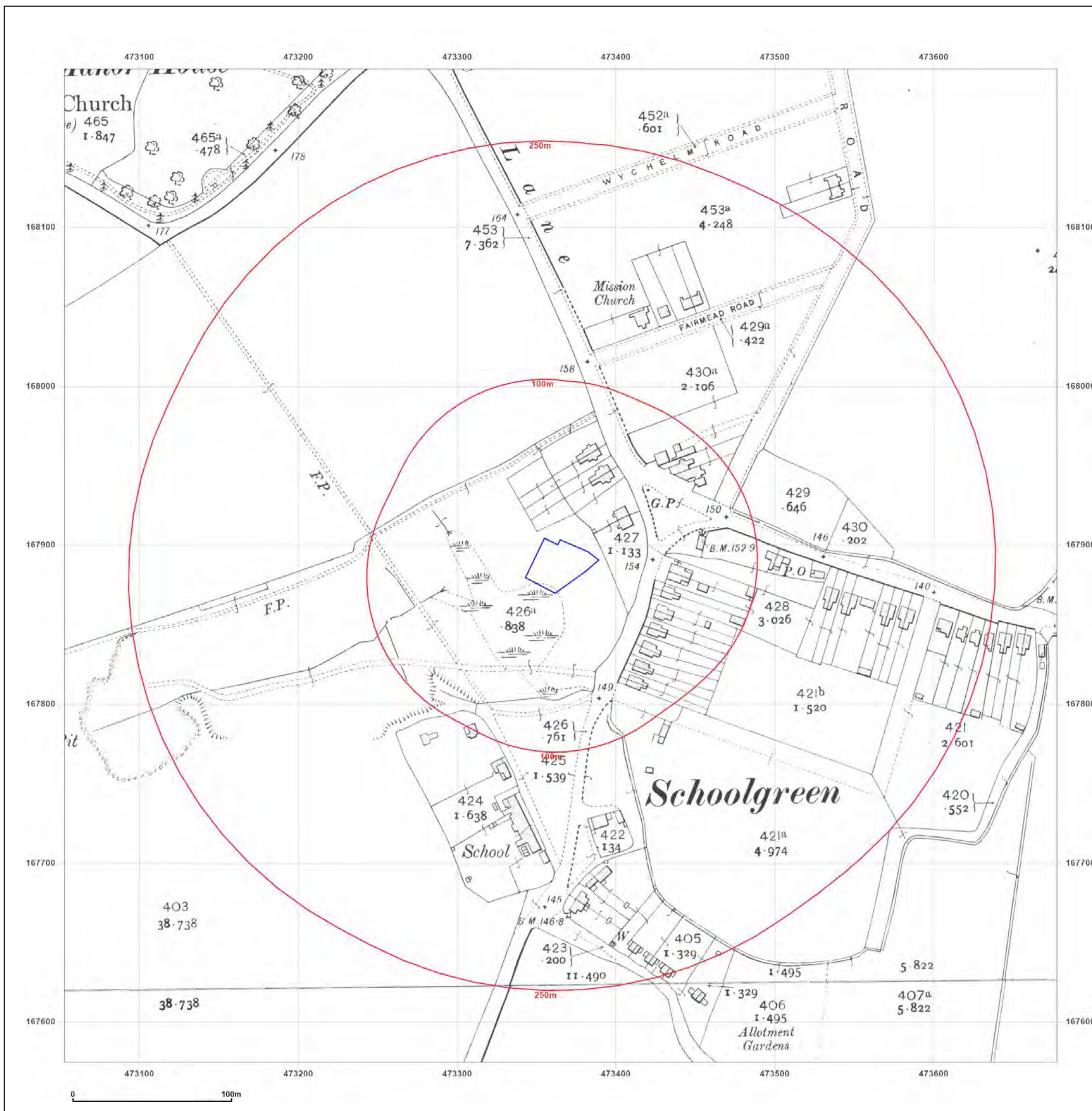


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Client Ref: R5017/JG/11/06/2025
Report Ref: GS-6NC-W4O-MTB-6WI
Grid Ref: 473365, 167887

Map Name: County Series

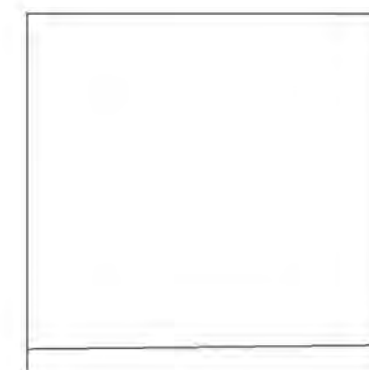
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Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1936
Revised 1936
Edition N/A
Copyright N/A
Levelled N/A

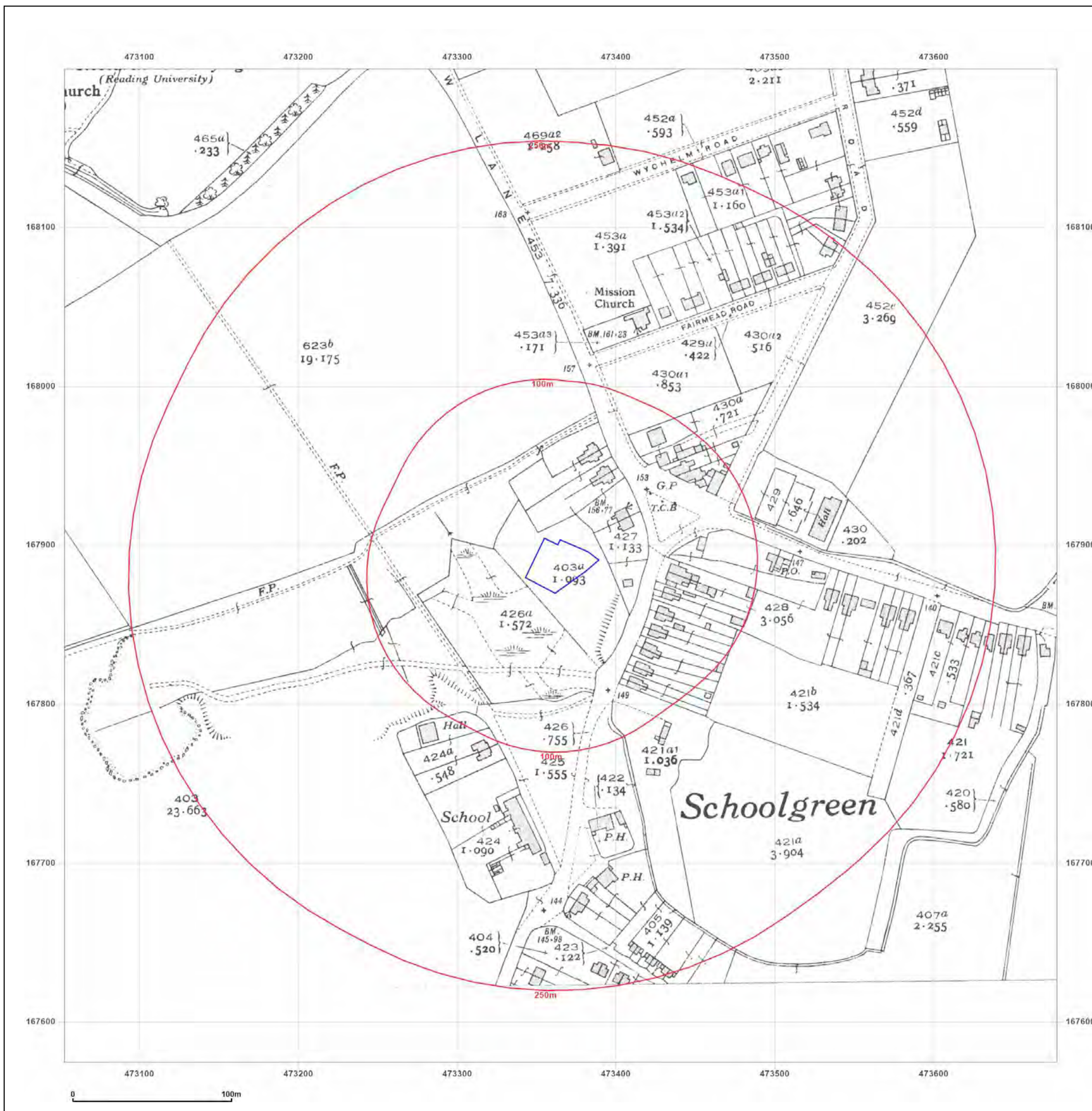


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Site Details:

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Client Ref: R5017/JG/11/06/2025
Report Ref: GS-6NC-W4O-MTB-6WI
Grid Ref: 473365, 167887

Map Name: National Grid

Map date: 1966-1968

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
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Revised N/A
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Client Ref: R5017/JG/11/06/2025
Report Ref: GS-6NC-W4O-MTB-6WI
Grid Ref: 473365, 167887

Map Name: National Grid

Map date: 1966-1968

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed 1967
Revised 1967
Edition N/A
Copyright 1968
Levelled 1959

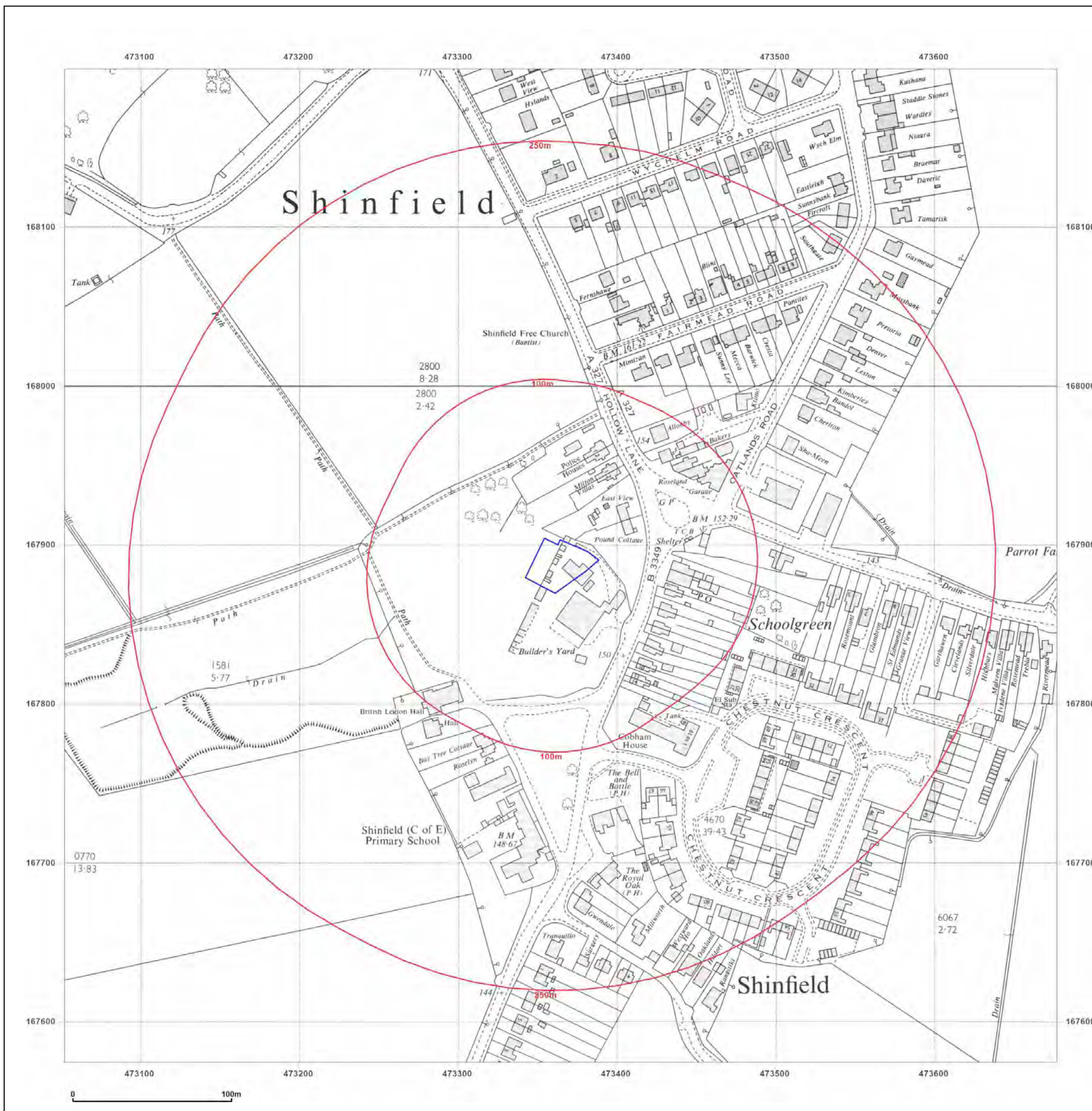


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Client Ref: R5017/JG/11/06/2025
Report Ref: GS-6NC-W4O-MTB-6WI
Grid Ref: 473365, 167887

Map Name: National Grid

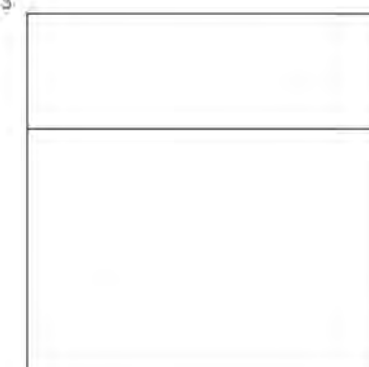
Map date: 1975

Scale: 1:2,500

Printed at: 1:2,500



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

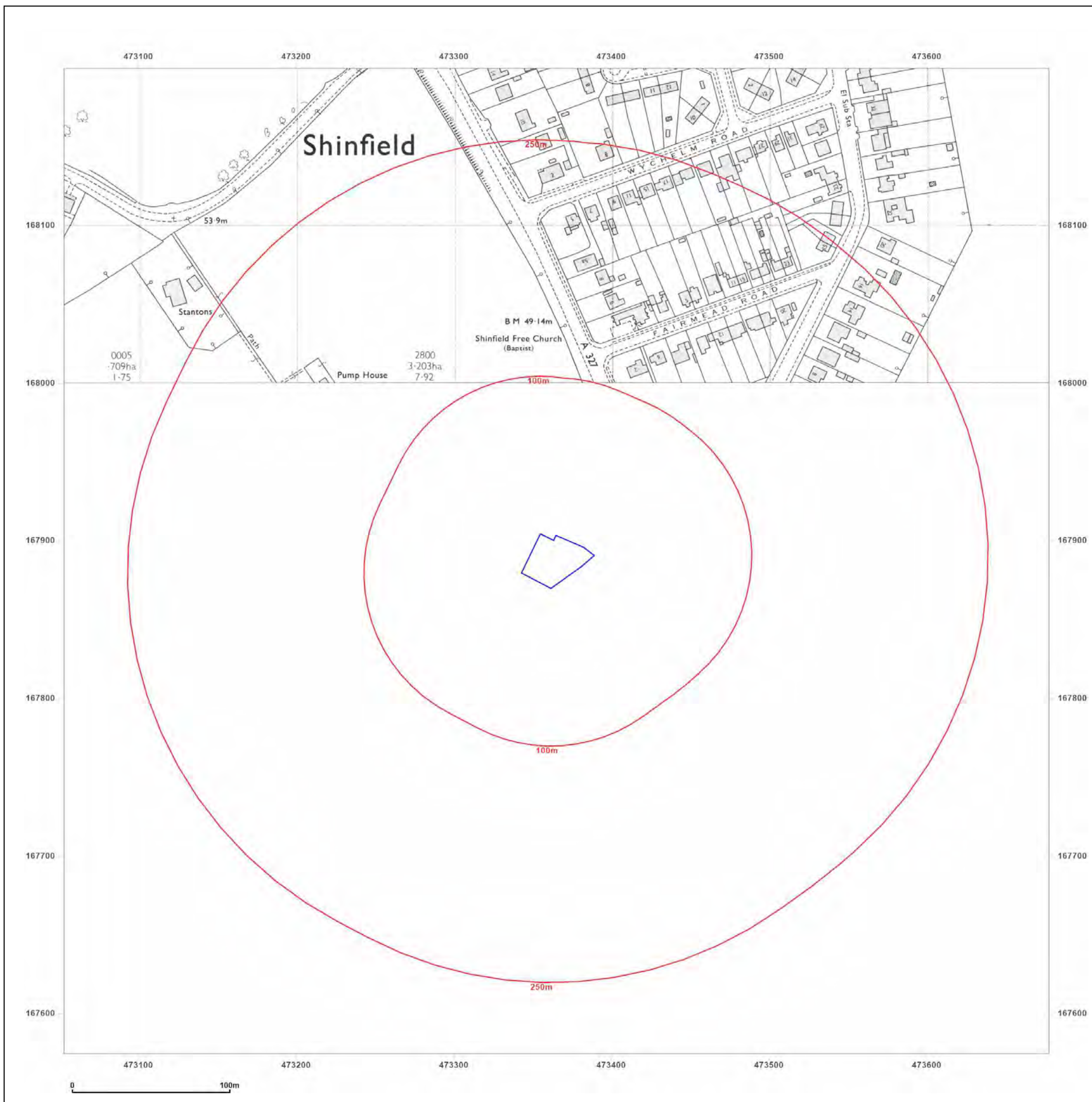


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Client Ref: R5017/JG/11/06/2025
Report Ref: GS-6NC-W4O-MTB-6WI
Grid Ref: 473365, 167887

Map Name: National Grid

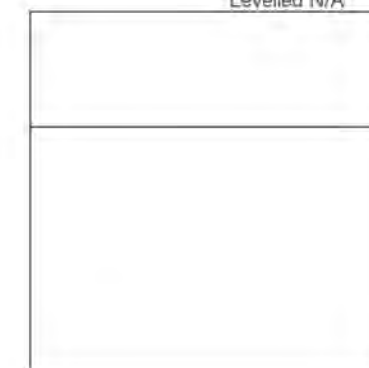
Map date: 1975

Scale: 1:2,500

Printed at: 1:2,500



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

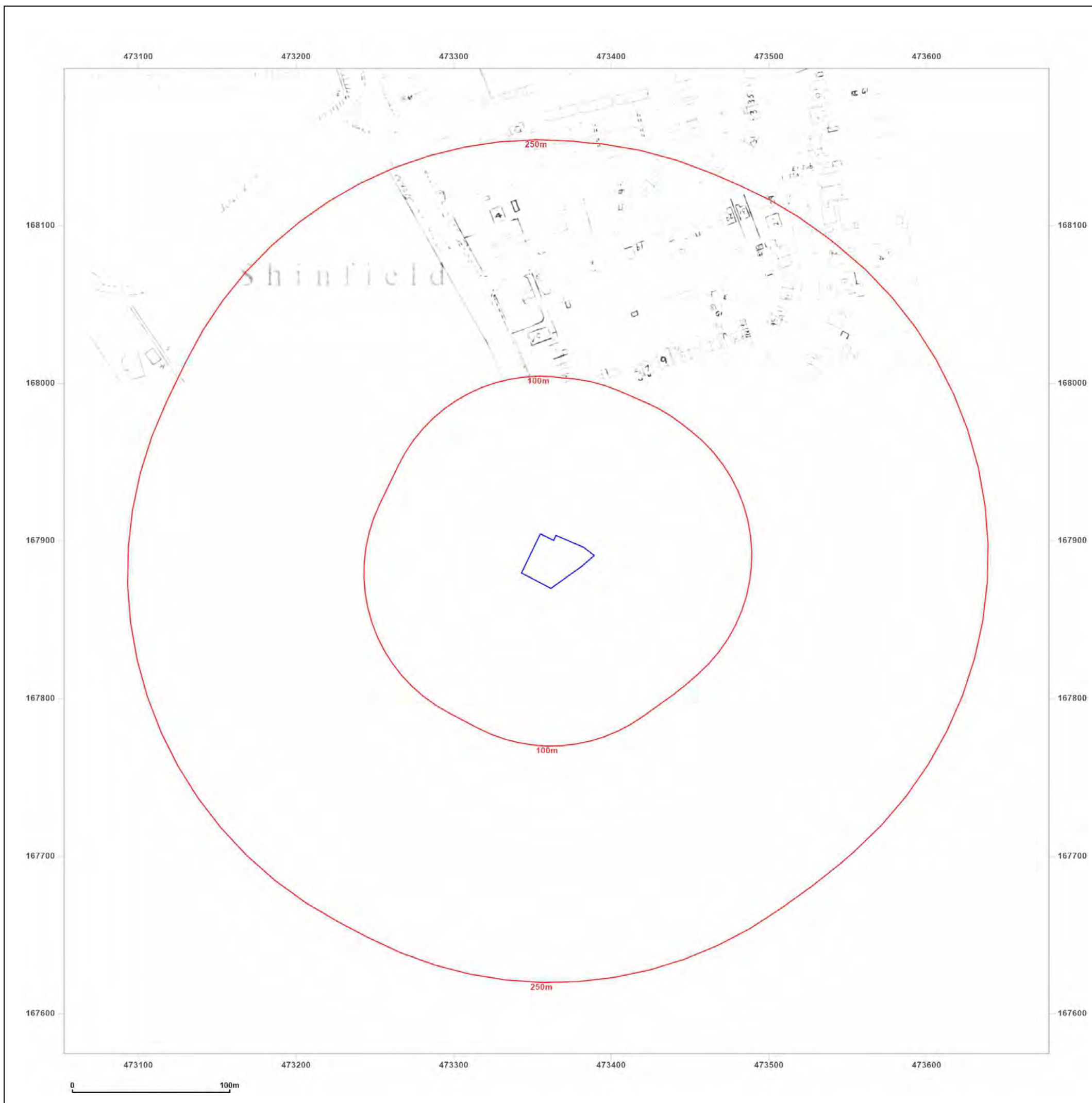


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Site Details:

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Client Ref: R5017/JG/11/06/2025
Report Ref: GS-6NC-W4O-MTB-6WI
Grid Ref: 473365, 167887

Map Name: National Grid

Map date: 1983

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1973
Revised 1983
Edition N/A
Copyright 1983
Levelled 1973

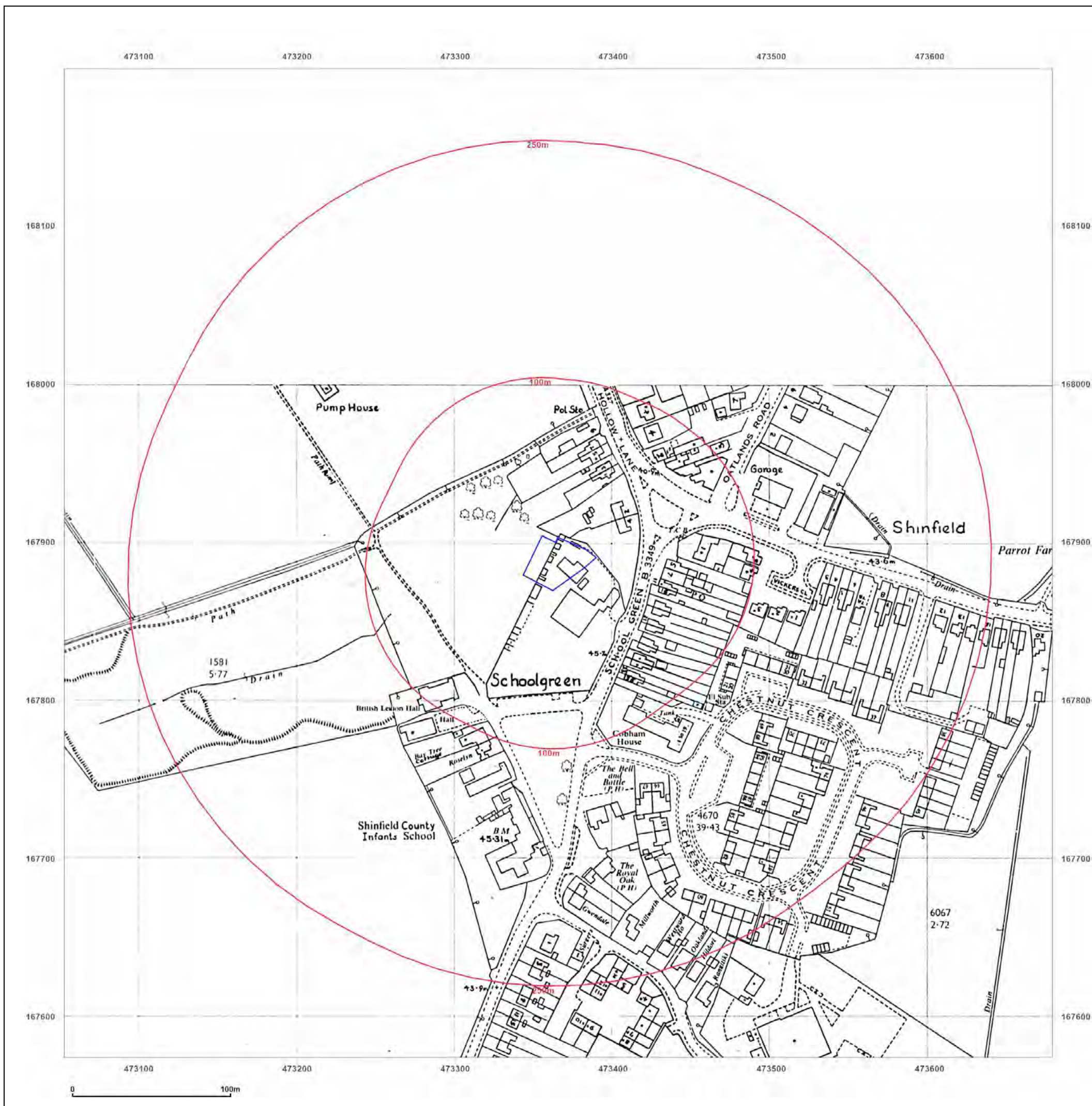


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Client Ref: R5017/JG/11/06/2025
Report Ref: GS-6NC-W4O-MTB-6WI
Grid Ref: 473365, 167887

Map Name: National Grid

Map date: 1989

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1973
Revised 1989
Edition N/A
Copyright 1989
Levelled 1973

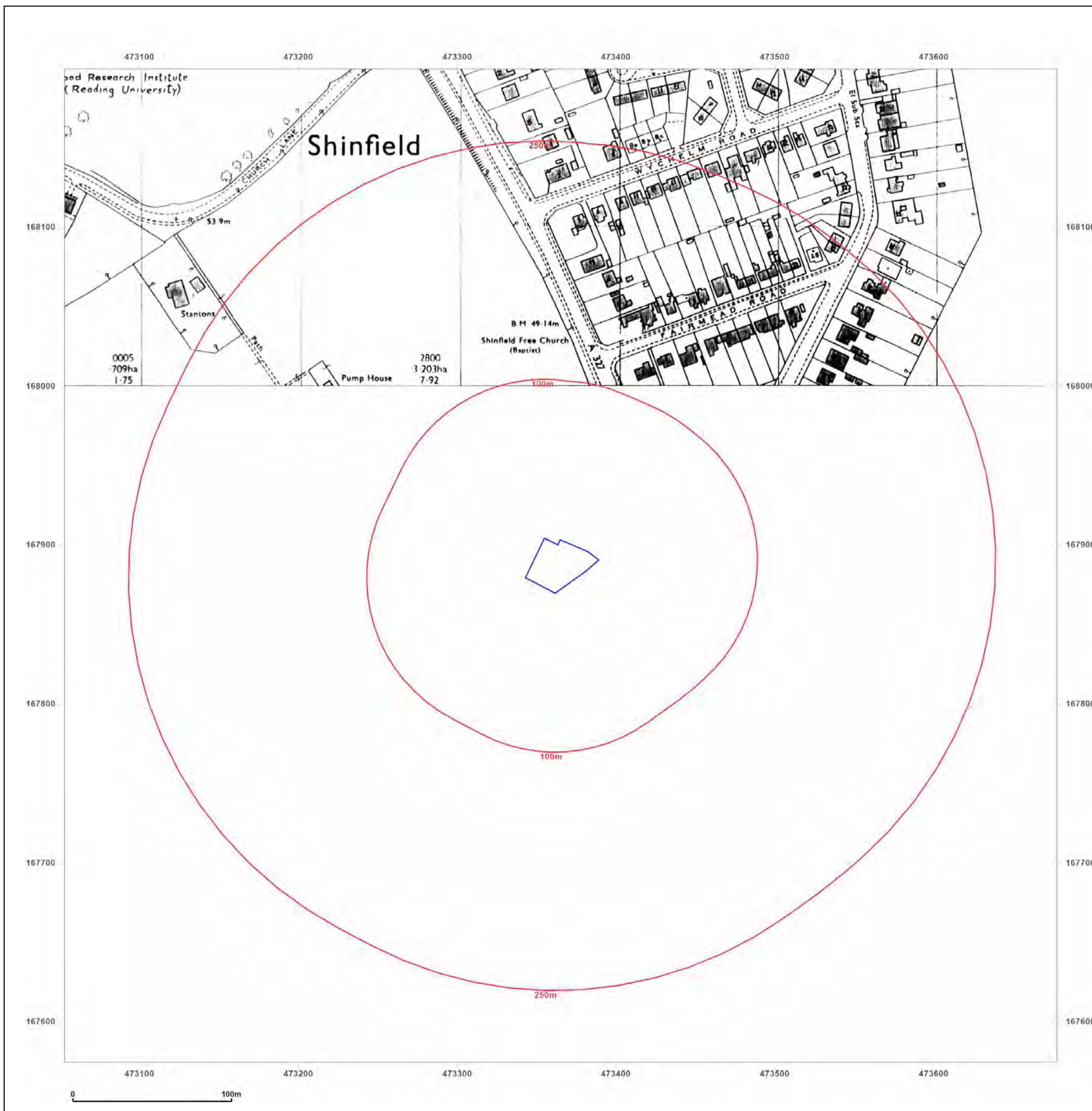


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Client Ref: R5017/JG/11/06/2025
Report Ref: GS-6NC-W4O-MTB-6WI
Grid Ref: 473365, 167887

Map Name: National Grid

Map date: 1989-1994

Scale: 1:2,500

Printed at: 1:2,500



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Surveyed 1994
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Client Ref: R5017/JG/11/06/2025
Report Ref: GS-6NC-W4O-MTB-6WI
Grid Ref: 473365, 167887

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1994
Revised N/A
Edition N/A
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Levelled N/A

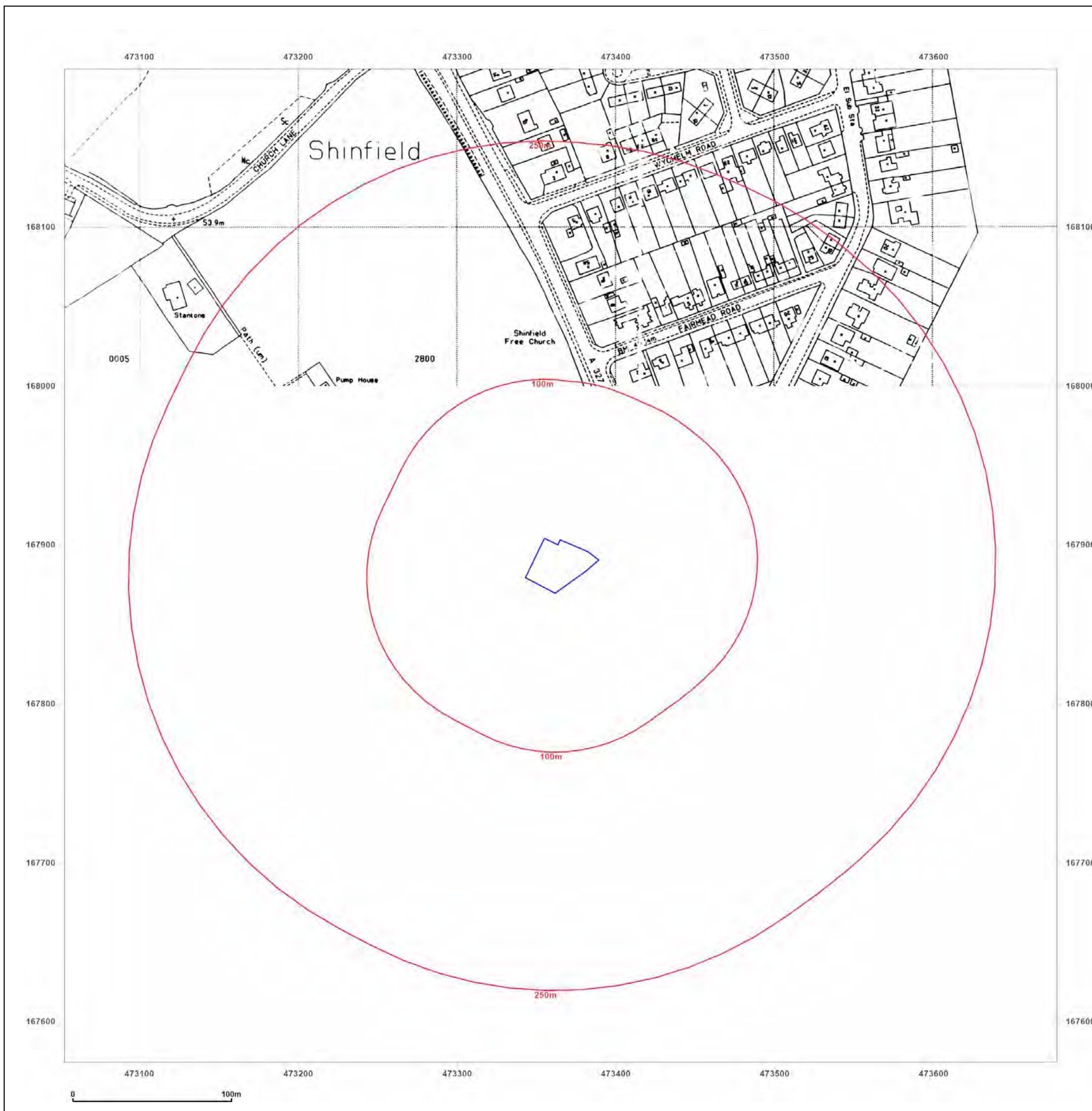


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Client Ref: R5017/JG/11/06/2025
Report Ref: GS-6NC-W4O-MTB-6WI
Grid Ref: 473365, 167887

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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APPENDIX 2

EXPLORATORY BOREHOLE LOGS

Percussion Drilling Log

Project Name: Shinfield View		Client: AFA Consulting Engineers		Date: 10/06/2025 - 11/06/2025	
Location: School Grn, Shinfield, Reading, RG2 9EH		Contractor: PM Sampling		Co-ords: E473357.00 N167884.00	
Project No. : R5017		Crew Name: TC		Drilling Equipment: Dando 3000	
Borehole Number CP01	Hole Type CP	Level	Logged By AT	Scale 1:50	Page Number Sheet 1 of 2

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30			0.30			MADE GROUND: Grass over brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to medium brick and quartzite. Frequent rootlets.	
		1.00	ES					MADE GROUND: Medium dense brown sandy slightly clayey angular to subrounded fine to coarse GRAVEL of brick, concrete, quartzite and clinker. Sand is fine to coarse. (LANDFILL)	1
		1.00	SPT	N=26 (4,5/6,6,6,8)					
		2.00	ES						2
		2.00	SPT	N=18 (3,4/6,5,4,3)					
		2.50			2.50				
		3.00	SPT	N=2 (1,0/0,1,0,1)	3.00			MADE GROUND: Very loose yellowish brown sandy angular to subrounded fine to coarse GRAVEL of brick, concrete, quartzite and flint. Sand is fine to coarse. (LANDFILL)	3
		3.20	ES					becomes very loose at 2.50mbgl.	
		3.50			3.50			MADE GROUND: Very soft grey mottled brown sandy slightly gravelly CLAY. Gravel is angular to subrounded fine to coarse brick and concrete. Sand is fine to coarse. (LANDFILL)	4
		4.00	ES	N=17 (2,4/4,4,5,4)				Stiff grey slightly silty CLAY. Occasional shell fragments. (LONDON CLAY FORMATION)	
		4.00	SPT						
		4.20	D						
		5.00	D		5.00			Stiff grey CLAY. Occasional shell fragments. (LONDON CLAY FORMATION)	5
		5.00	SPT	N=30 (4,6/7,7,8,8)					
		6.00 - 6.45	U	Ublow=66				from 6.0mbgl no shell fragments.	6
		6.50	D						
		7.00	D						7
		7.50	SPT	N=22 (5,4/5,5,6,6)					
		8.50	D					becomes bluish grey from 8.0mbgl.	8
		9.00	SPT	N=25 (4,5/5,6,7,7)					9
		10.00	D						10

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
		4.50	152								

Remarks 1. Hole location scanned with CAT. 2. Borehole terminated at 18.45mbgl due to very stiff clays halting progress. 3. Groundwater seepage at 2.50mbgl 4. Borehole installed with 50mm HDPE standpipe to 3.0mbgl.										 EARTH ENVIRONMENTAL & GEOTECHNICAL A Technics Group Company
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Percussion Drilling Log

Project Name: Shinfield View		Client: AFA Consulting Engineers		Date: 10/06/2025 - 11/06/2025	
Location: School Grn, Shinfield, Reading, RG2 9EH		Contractor: PM Sampling		Co-ords: E473357.00 N167884.00	
Project No. : R5017		Crew Name: TC		Drilling Equipment: Dando 3000	
Borehole Number CP01	Hole Type CP	Level	Logged By AT	Scale 1:50	Page Number Sheet 2 of 2

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		10.50	SPT	N=24 (4,6/6,6,6,6)	18.45			Stiff grey CLAY. Occasional shell fragments. (LONDON CLAY FORMATION) occasional shell fragments from 10mbgl.	11
		11.50	D						
		12.00	SPT	N=32 (6,8/8,8,8,8)				between 12mbgl to 13.50mbgl becomes very stiff.	12
		13.00	D						13
		13.50	SPT	N=25 (5,5/6,6,6,7)				between 13.5mbgl to 18mbgl becomes stiff.	14
		15.00 - 15.45	U	Ublow=107					15
		15.50	D						16
		16.50	SPT	N=25 (4,6/6,6,6,7)					17
		17.50	D						
		18.00	SPT	N=31 (6,6/6,8,8,9)				from 18mbgl becomes very stiff.	18
								End of Borehole at 18.450m	19
									20

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation
		4.50	152								

Remarks

1. Hole location scanned with CAT. 2. Borehole terminated at 18.45mbgl due to very stiff clays halting progress. 3. Groundwater seepage at 2.50mbgl 4. Borehole installed with 50mm HDPE standpipe to 3.0mbgl.

Trial Pit Log

Project Name: Shinfield View		Client: AFA Consulting Engineers		Date: 10/06/2025	
Location: School Grn, Shinfield, Reading, RG2 9EH		Contractor: PM Sampling		Co-ords: E473363.00 N167879.00	
Project No. : R5017		Crew Name: PN		Equipment: 3T Mini Digger	
Location Number TP01	Location Type TP	Level	Logged By AT	Scale 1:12	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.12						MADE GROUND: Grass over brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to medium brick and quartzite. Frequent rootlets.	
		0.20						MADE GROUND: Greyish brown gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse brick, concrete, quartzite and flint.	
								MADE GROUND: CONCRETE.	
		0.60						MADE GROUND: Brown sandy angular to subrounded fine to coarse GRAVEL of brick, concrete, quartzite, flint and clinker. Sand is fine to coarse. Frequent cobbles of angular concrete. (LANDFILL)	
		0.90	ES					MADE GROUND: Firm bluish grey mottled black slightly gravelly slightly sandy CLAY. Gravel is subangular to subrounded fine to medium brick and concrete. Sand is fine to coarse. (LANDFILL)	1
		1.08						MADE GROUND: Dark greyish brown sandy angular to subangular fine to coarse GRAVEL of flint, quartzite, brick and concrete. Sand is medium to coarse. Frequent inclusions of homogenous material including glass bottles, wood fragments, plastic and brick tile. (LANDFILL)	
		1.32						MADE GROUND: Dark greyish brown sandy angular to subangular fine to coarse GRAVEL of flint, quartzite, brick and concrete. Sand is medium to coarse. Frequent inclusions of homogenous material including glass bottles, wood fragments, plastic and brick tile. (LANDFILL)	
		1.40	ES						
		2.00	ES						2
					2.20			End of Borehole at 2.200m	

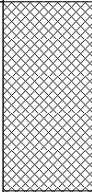
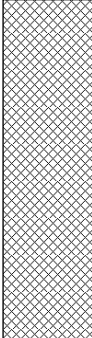
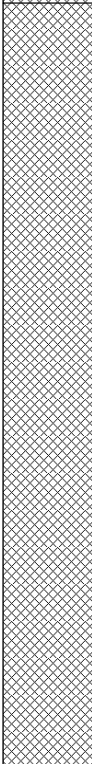
Dimensions		Trench Support and Comment				Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks	
2.00	0.55							

Remarks

1. Trial Pit location scanned with CAT. 2. Trial Pit aborted at 2.20mbgl due to encountering groundwater in the made ground. 3. Groundwater seepage at 2.15mbgl. 4. Hole backfilled with arisings.

Trial Pit Log

Project Name: Shinfield View		Client: AFA Consulting Engineers		Date: 10/06/2025	
Location: School Grn, Shinfield, Reading, RG2 9EH		Contractor: PM Sampling		Co-ords: E473351.00 N167881.00	
Project No. : R5017		Crew Name: PN		Equipment: 3T Mini Digger	
Location Number TP02	Location Type TP	Level	Logged By AT	Scale 1:12	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.15	ES		0.30			MADE GROUND: Grass over brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to medium brick and quartzite. Frequent rootlets.	
					0.84			MADE GROUND: Grey sandy angular to subangular fine to coarse GRAVEL of granite and quartzite. Sand is fine to coarse. (LANDFILL)	
		1.00	ES					MADE GROUND: Brown sandy slightly clayey angular to subrounded fine to coarse GRAVEL of brick, concrete, quartzite and flint. Frequent inclusions of homogenous material including: glass bottles, plastic, brick tile, metal and wood fragments. (LANDFILL)	1
		2.00	ES		2.05			at 2.0mbgl frequent sheets of suspected cement bonded ACMs. End of Borehole at 2.050m	2

Dimensions		Trench Support and Comment				Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks	
1.80	0.60							

Remarks 1. Trial Pit location scanned with CAT. 2. Trial Pit aborted at 2.05mbgl due to encountering suspected ACMs. 3. Groundwater was not encountered. 4. Hole backfilled with arisings.								 EARTH ENVIRONMENTAL & GEOTECHNICAL A Technics Group Company
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Trial Pit Log

Project Name: Shinfield View		Client: AFA Consulting Engineers		Date: 11/06/2025	
Location: School Grn, Shinfield, Reading, RG2 9EH		Contractor: PM Sampling		Co-ords: E473390.00 N167879.00	
Project No. : R5017		Crew Name: AT		Equipment: Hand Tools	
Location Number TP03	Location Type TP	Level	Logged By AT	Scale 1:10	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.30			MADE GROUND: Brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is angular to subrounded fine to coarse concrete, brick, quartzite and clinker. Rare rootlets.	
					0.87			MADE GROUND: Brownish grey sandy angular to subrounded fine to coarse GRAVEL of brick, concrete, quartzite, and tile. Sand is fine to coarse. Frequent cobbles of angular brick and concrete. Occasional whole bricks and brick tile. (LANDFILL)	
								End of Borehole at 0.870m	1
									2

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks	Date	Rate	Remarks
0.82	0.42						

Remarks
1. Hand Pit location scanned with CAT. 2. Hand Pit aborted at 0.87mbgl due to encountering concrete obstruction. 3. Groundwater was not encountered. 4. Hole backfilled with arisings.

APPENDIX 3

LABORATORY TESTING RESULTS (GEOTECHNICAL)



Laboratory Report



Contract Number: 79311

Client Ref: **R5017**

Client PO: **R5017/AT/12/06/25**

Date Received: **17-06-2025**

Date Completed: **04-07-2025**

Report Date: **04-07-2025**

Client: **Earth Environmental & Geotechnical**

This report has been checked and approved by:

Contract Title: **Shinfield View**

For the attention of: **Ashley Thorne**

Shaun Jones

Laboratory manager

Description	Qty
Determination of water content BS EN ISO 17892-1:2014 - @ Non Accredited Test	4
1 point Liquid & Plastic Limit.. BS EN ISO 17892-12 - * UKAS	4
Water Soluble Sulphate 2:1 extract Sub-contracted Test In-house method#	2
pH value of soil Sub-contracted Test - In-house method#	2
Quick Undrained Triaxial Compression test - single specimen at one confining pressure (100mm or 38mm diameter) BS 1377:1990 - Part 7 : 8 - * UKAS	2

Notes: Observations and Interpretations are outside the UKAS Accreditation

* - denotes test included in laboratory scope of accreditation

- denotes test carried out by approved contractor

@ - denotes non accredited tests

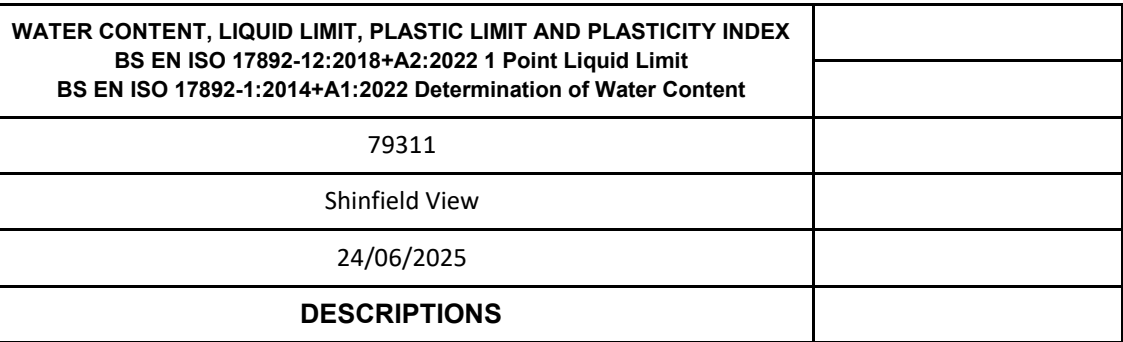
This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This test report/certificate shall not be reproduced except in full, without the approval of GEO Site & Testing Services Ltd. Any opinions or interpretations stated - within this report/certificate are excluded from the laboratories UKAS accreditation.

Approved Signatories:

Brendan Evans (Senior Office Administrator) - Darren Bourne (Quality Senior Technician) - Paul Evans (Director)

Richard John (Quality/Technical Manager) - Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager)

Wayne Honey (HR & HSE Manager)

[illegible]

Operator
Owain D



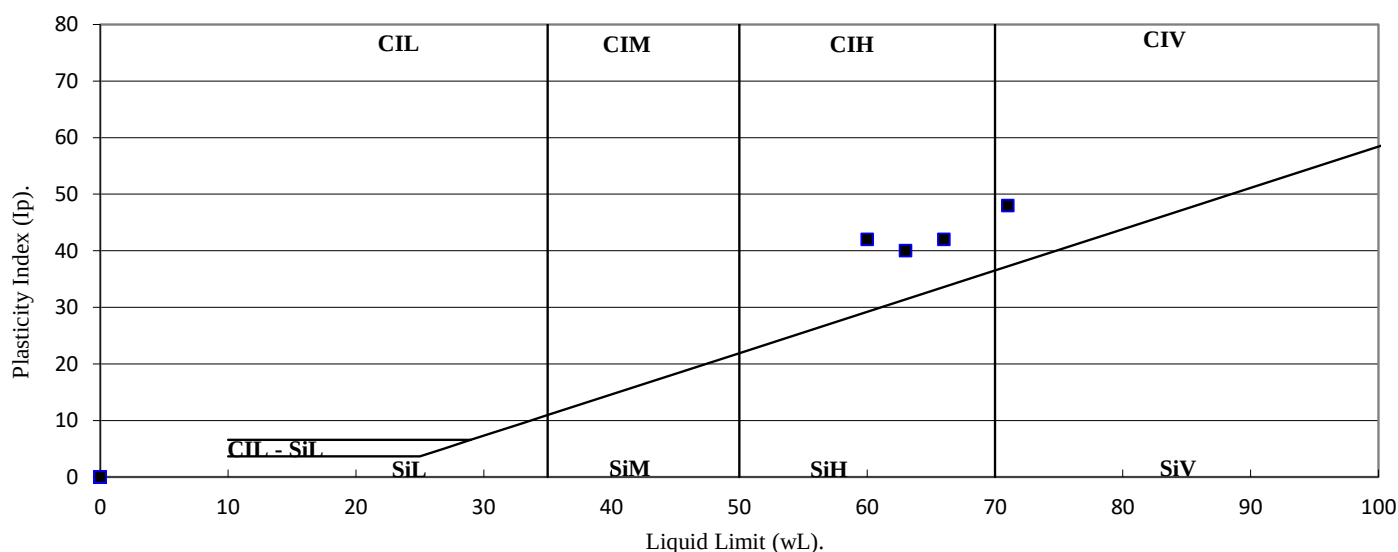
Contract Number	79311	
Project Name	Shinfield View	
Date Tested	24/06/2025	
Test Comments	80g/30° Fall cone used	

[illegible]

SYMBOLS : NP = Non Plastic

PLASTICITY CHART

BS EN ISO 14688-2:2018 Clause 4.4



***For sample descriptions please see sample descriptions sheet**

Operator
Owain D

Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number 79311

Borehole/Pit No. CP01

Project Name Shinfield View

Sample No.

Soil Description Brown silty CLAY

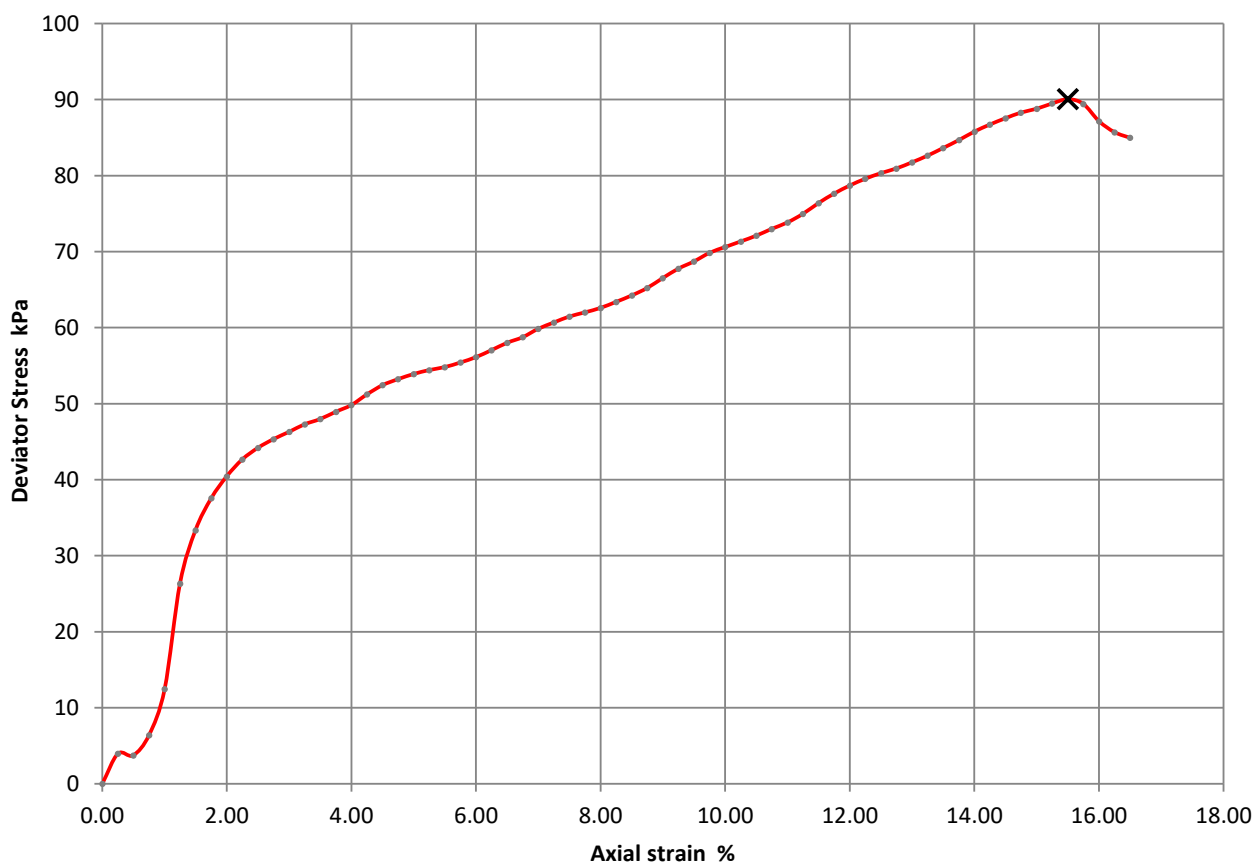
Depth Top (m) 6.00

Depth Base (m) 6.45

Date Tested 24/06/2025

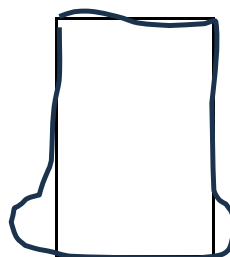
Sample Type U

Operator David E.



Moisture Content (%)	27
Bulk Density (Mg/m ³)	1.93
Dry Density (Mg/m ³)	1.52
Specimen Length (mm)	208.4
Specimen Diameter (mm)	104.3
Cell Pressure (kPa)	72
Deviator Stress (kPa)	90
Undrained Shear Strength (kPa)	45
Failure Strain (%)	16
Mode Of Failure	Plastic
Membrane Used/Thickness	Rubber/0.4mm
Rate of Strain (%/min)	1.32

Notes.

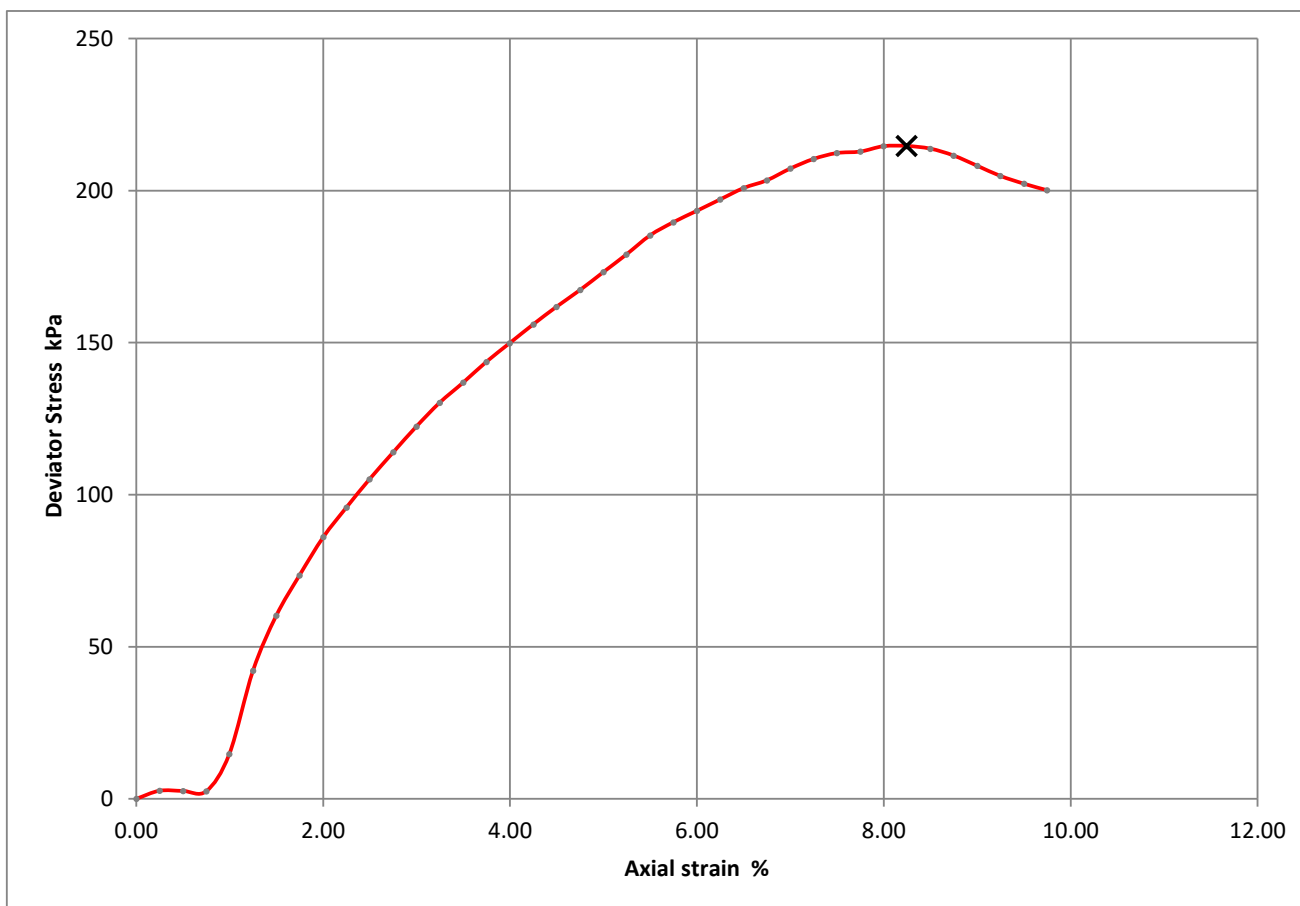


Failure Sketch.

Single Stage Unconsolidated-Undrained Triaxial Test
BS 1377 : 1990 Part 7 : 8

Contract Number	79311
Borehole/Pit No.	CP01
Sample No.	
Depth Top (m)	15.00
Depth Base (m)	15.45
Sample Type	U
Operator	David E.

Project Name	Shinfield View
Soil Description	Brown silty CLAY
Date Tested	24/06/2025



Moisture Content (%)	27
Bulk Density (Mg/m ³)	1.98
Dry Density (Mg/m ³)	1.56
Specimen Length (mm)	208.4
Specimen Diameter (mm)	104.2
Cell Pressure (kPa)	180
Deviator Stress (kPa)	215
Undrained Shear Strength (kPa)	107
Failure Strain (%)	8
Mode Of Failure	Compound
Membrane Used/Thickness	Rubber/0.4mm
Rate of Strain (%/min)	1.32

Notes.



Failure Sketch.



7 - 11 Harding Street
Leicester
LE1 4DH

GSTL
Unit 3-4 Heol Aur
Dafen Ind Estate
Dafen
SA14 8QN

Analytical Test Report: L25/06308/GSL - 25-70831

Your Project Reference: **Shinfield View R5017**

Your Order Number: 79311 Samples Received / Instructed: 23/06/2025 / 23/06/2025

Report Issue Number: 1 Sample Tested: 23/06 to 04/07/2025

Samples Analysed: 2 sample(s) Report issued: 04/07/2025

Signed

James Gane
Analytical Services Manager
CTS

Notes:

General

Please refer to Methodologies page for details pertaining to the analytical methods undertaken.

Samples will be retained for 14 days after issue of this report unless otherwise requested.

Moisture Content was determined in accordance with CTS method statement MS - CL - Sample Prep, oven dried at <30°C.

Moisture Content is reported as a percentage of the dry mass of soil, this calculation is in accordance with BS1377, Part 2, 1990, Clause 3.2

Where specification limits are included these are for guidance only. Where a measured value has been highlighted this is not implying acceptance or failure and certainty of measurement values have not been taken into account.

Uncertainty of measurement values are available on request.

Samples were supplied by customer, results apply to the samples as received.

Deviating Samples

On receipt samples are compared against our sample holding and handling protocols, where any deviations have been noted these are reported on our deviating sample page (if present)

Accreditation Key

This report shall not be reproduce except in full

UKAS = UKAS Accreditation, MCERTS = MCERTS Accreditation, u = Unaccredited, subUKAS - Subcontracted to a laboratory UKAS accredited for this test, subMCERTS - Subcontracted to a laboratory MCERTS accredited for this test

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

UKAS accreditation on waters only covers the Ground water and Surface water matrices

Date of Issue: 21.05.25

Issued by: J. Gane

Issue No: 4

Rev No: 27



7 - 11 Harding Street
Leicester
LE1 4DH

L25/06308/GSL - 25-70831

Project Reference - Shinfield View R5017

Analytical Test Results - Chemical Analysis

Lab Reference			533769	533770
Client Sample ID			-	-
Client Sample Location			CP01	CP01
Client Sample Type			D	D
Client Sample Number			-	-
Depth - Top (m)			10.00	17.50
Depth - Bottom (m)			10.00	17.50
Date of Sampling			-	-
Time of Sampling			-	-
Sample Matrix			Clay	Clay
Determinant	Units	Accreditation		
Water soluble sulphate (as SO ₄)	(mg/l)	u	300	300
pH Value	pH Units	MCERTS	8.0	8.0



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L25/06308/GSL - 25-70831

Project Reference - Shinfield View R5017

Sample Descriptions

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Description	Moisture Content (%)	Stone Content (%)	Passing 2mm test sieve (%)
533769	-	CP01	D	-	Grey silty clay	-	-	100
533770	-	CP01	D	-	Grey silty clay	-	-	100



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L25/06308/GSL - 25-70831

Project Reference - Shinfield View R5017

Sample Comments

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Comments
533769	-	CP01	D	-	
533770	-	CP01	D	-	



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L25/06308/GSL - 25-70831

Project Reference - Shinfield View R5017

Analysis Methodologies

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preparation	Test Details
ANIONSS	MS - CL - Anions by Aquakem (2:1Extract)	Oven dried	Passing 2mm test sieve	Determination of Anions (inc Sulphate, chloride etc.) in soils by Aquakem. Analysis is based on a 2:1 water to soil extraction ratio
PHS	MS - CL - pH in Soils	As received	Passing 10mm test sieve	Determination of pH in soils using a pH probe (using a 1:3 soil to water extraction)
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Preparation of samples (including determination of moisture content) to allow for subsequent analysis



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L25/06308/GSL - 25-70831

Project Reference - Shinfield View R5017

Sample Deviations

Deviations are listed below against each sample and associated test method, where deviation(s) are noted it means data may not be representative of the sample at the time of sampling and it is possible that results provided may be compromised.

Observations on receipt

A - No date of sampling provided

W - No time of sampling provided for water sample

C - Received in inappropriate container

H - Contains headspace

T - Temperature on receipt exceeds storage temperature

R - Sample(s) received with less than 96 hours for testing to commence/complete, any result formally classed as deviating will be marked with an X against the applicable test (i.e. RX)

Observations whilst in laboratory

X - Exceeds sampling to extraction or analysis timescales

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Test	Deviations
533769	-	CP01	D	-		A
533770	-	CP01	D	-		A

APPENDIX 4

LABORATORY TESTING RESULTS (CHEMICAL)

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/06285
Issue Number: 1

Date: 26 June, 2025

Client: Earth Environmental & Geotechnical Ltd (Reading)
Suite 18
Wyvols Court
Swallowfield
Reading
UK
RG7 1WY

Project Manager: Ashley Thorne
Project Name: Shinfield View
Project Ref: R5017
Order No: R5017/12/06/2025/AT
Date Samples Received: 12/06/25
Date Instructions Received: 13/06/25
Date Analysis Completed: 26/06/25

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 25/06285

Client Project Name: Shinfield View

Client Project Ref: R5017

Lab Sample ID	25/06285/2	25/06285/4	25/06285/5	25/06285/6	25/06285/9	25/06285/10		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP01	TP02	TP02	TP02	CP01	CP01				
Depth to Top	1.40	0.15	1.00	2.00	3.20	4.00				
Depth To Bottom										
Date Sampled	10-Jun-25	10-Jun-25	10-Jun-25	10-Jun-25	10-Jun-25	10-Jun-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AB	6ABE	6ABE	4ABDE	5AB	3A				
% Moisture at <40C _A	31.4	10.9	15.9	15.9	15.5	15.6		% w/w	0.1	A-T-044
% Stones >10mm _A	<0.1	<0.1	3.3	24.4	<0.1	<0.1		% w/w	0.1	A-T-044
pH _D ^{M#}	7.48	7.79	7.66	7.39	8.05	7.95		pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	0.21	<0.01	0.09	0.10	0.15	0.39		g/l	0.01	A-T-026s
Sulphate (acid soluble) _D ^{M#}	4900	580	1900	3400	1600	1000		mg/kg	200	A-T-028s
Cyanide (free) _A ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-042sFCN
Cyanide (complex/WAD) ^{M#}	<1	<1	2	2	<1	<1		mg/kg	1	Calc
Cyanide (total) _A ^{M#}	<1	<1	2	2	<1	<1		mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC _A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		mg/kg	0.2	A-T-050s
Sulphide _A	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-043-s
Organic Matter _D ^{M#}	30.2	9.01	20.2	21.9	2.61	0.87		% w/w	0.14	A-T-032s
Arsenic _D ^{M#}	62	12	33	38	17	9		mg/kg	1	A-T-024s
Barium _D [#]	407	87	539	271	85	26		mg/kg	3	A-T-024s
Beryllium _D	7.1	0.6	4.1	4.3	0.8	0.6		mg/kg	0.5	A-T-024s
Boron (water soluble) _D ^{M#}	4.7	2.5	3.1	2.6	1.9	1.7		mg/kg	1	A-T-027s
Cadmium _D	5.6	<1.0	2.1	2.0	1.0	<1.0		mg/kg	1	A-T-024s
Copper _D ^{M#}	561	22	687	188	90	22		mg/kg	1	A-T-024s
Chromium _D ^{M#}	128	16	28	33	22	24		mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-040s
Lead _D ^{M#}	413	63	438	621	98	12		mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17	0.48	0.39	1.56	<0.17		mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	157	15	49	57	25	29		mg/kg	1	A-T-024s
Selenium _D ^{M#}	2	<1	<1	<1	1	<1		mg/kg	1	A-T-024s
Vanadium _D ^{M#}	72	28	45	42	32	36		mg/kg	1	A-T-024s
Zinc _D ^{M#}	1540	99	1160	912	765	78		mg/kg	1	A-T-024s

Envirolab Job Number: 25/06285

Client Project Name: Shinfield View

Client Project Ref: R5017

Lab Sample ID	25/06285/2	25/06285/4	25/06285/5	25/06285/6	25/06285/9	25/06285/10		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP01	TP02	TP02	TP02	CP01	CP01				
Depth to Top	1.40	0.15	1.00	2.00	3.20	4.00				
Depth To Bottom										
Date Sampled	10-Jun-25	10-Jun-25	10-Jun-25	10-Jun-25	10-Jun-25	10-Jun-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AB	6ABE	6ABE	4ABDE	5AB	3A				
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	NAD	NAD	NAD	NAD	NAD	NAD				A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-				A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A	N/A				A-T-045

Envirolab Job Number: 25/06285

Client Project Name: Shinfield View

Client Project Ref: R5017

Lab Sample ID	25/06285/2	25/06285/4	25/06285/5	25/06285/6	25/06285/9	25/06285/10		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP01	TP02	TP02	TP02	CP01	CP01				
Depth to Top	1.40	0.15	1.00	2.00	3.20	4.00				
Depth To Bottom										
Date Sampled	10-Jun-25	10-Jun-25	10-Jun-25	10-Jun-25	10-Jun-25	10-Jun-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AB	6ABE	6ABE	4ABDE	5AB	3A				
PAH-16MS										
Acenaphthene _A ^{M#}	<0.01	<0.01	0.02	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	0.02	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	<0.02	0.06	0.20	0.03	<0.02	<0.02		mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.34	0.56	0.53	0.16	0.06	<0.04		mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.36	0.66	0.43	0.20	0.06	<0.04		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.48	0.92	0.57	0.30	0.08	<0.05		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.31	0.46	0.33	0.17	<0.05	<0.05		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	0.17	0.31	0.21	0.09	<0.07	<0.07		mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	0.34	0.57	0.52	0.18	0.07	<0.06		mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	0.09	0.06	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	0.45	0.94	1.36	0.28	0.12	<0.08		mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	<0.01	<0.01	0.02	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.28	0.48	0.32	0.16	0.04	<0.03		mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	0.07	0.27	0.72	0.08	0.06	<0.03		mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	0.39	0.83	1.10	0.24	0.11	<0.07		mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	3.19	6.17	6.39	1.89	0.60	<0.08		mg/kg	0.01	A-T-019s

Envirolab Job Number: 25/06285

Client Project Name: Shinfield View

Client Project Ref: R5017

Lab Sample ID	25/06285/2	25/06285/4	25/06285/5	25/06285/6	25/06285/9	25/06285/10		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP01	TP02	TP02	TP02	CP01	CP01				
Depth to Top	1.40	0.15	1.00	2.00	3.20	4.00				
Depth To Bottom										
Date Sampled	10-Jun-25	10-Jun-25	10-Jun-25	10-Jun-25	10-Jun-25	10-Jun-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AB	6ABE	6ABE	4ABDE	5AB	3A				
TPH CWG with Clean Up										
Ali >C5-C6 _A	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C6-C8 _A	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	3	<1	1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	4	2	6	3	1	<1		mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	41	27	54	39	24	1		mg/kg	1	A-T-055s
Total Aliphatics _A	48	29	61	41	25	1		mg/kg	1	Calc-As Recd
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<1	1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C12-C16 _A	3	2	3	2	2	<1		mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	6	9	22	4	6	<1		mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	16	29	74	16	12	1		mg/kg	1	A-T-055s
Total Aromatics _A	25	40	100	22	20	1		mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C35) _A	73	70	161	63	45	2		mg/kg	1	Calc-As Recd
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as “% stones >10mm”.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.

Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Earth Environmental & Geotechnical Ltd (Reading), Suite 18, Wyvols Court,
Swallowfield, Reading, UK, RG7 1WY

Project: Shinfield View

Clients Project No: R5017

Project No: 25/06285

Date Received: 13/06/2025 (am)

Cool Box Temperatures (°C): 21.8

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/06285/2	25/06285/4	25/06285/5	25/06285/6	25/06285/9	25/06285/10
Client Sample No						
Client Sample ID/Depth	TP01 1.40m	TP02 0.15m	TP02 1.00m	TP02 2.00m	CP01 3.20m	CP01 4.00m
Date Sampled	10/06/25	10/06/25	10/06/25	10/06/25	10/06/25	10/06/25
A-T-019s	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025
A-T-022s	19/06/2025	19/06/2025	19/06/2025	19/06/2025	19/06/2025	19/06/2025
A-T-024s	24/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025
A-T-026s	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025
A-T-027s	24/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025
A-T-028s	26/06/2025	24/06/2025	24/06/2025	26/06/2025	24/06/2025	26/06/2025
A-T-031s	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025
A-T-032s	24/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025
A-T-040s	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025
A-T-042sFCN	24/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025
A-T-042sTCN	24/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025
A-T-043-s	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025
A-T-044	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025	18/06/2025
A-T-045	17/06/2025	17/06/2025	17/06/2025	17/06/2025	17/06/2025	17/06/2025
A-T-050s	19/06/2025	19/06/2025	19/06/2025	19/06/2025	19/06/2025	19/06/2025
A-T-055s	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025
Calc	24/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025
Calc-As Recd	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/06817
Issue Number: 1

Date: 08 July, 2025

Client: Earth Environmental & Geotechnical Ltd (Reading)
Suite 18
Wyvols Court
Swallowfield
Reading
UK
RG7 1WY

Project Manager: Ashley Thorne/John Grace
Project Name: Shinfield View
Project Ref: R5017
Order No: R5017/25/06/2025/AT
Date Samples Received: 24/06/25
Date Instructions Received: 25/06/25
Date Analysis Completed: 08/07/25

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 25/06817

Client Project Name: Shinfield View

Client Project Ref: R5017

Lab Sample ID	25/06817/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	CP01									
Depth to Top										
Depth To Bottom										
Date Sampled	20-Jun-25									
Sample Type	WATER - EW									
Sample Matrix Code	N/A									
pH (w) _A [#]	7.22							pH	0.01	A-T-031w
Sulphate (w) _A [#]	241							mg/l	1	A-T-026w
Cyanide (free) (w) _A [#]	<0.005							mg/l	0.005	A-T-042wFCN
Cyanide (total) (w) _A [#]	<0.005							mg/l	0.005	A-T-042wTCN
Cyanide (complex/WAD) [#]	<0.005							mg/l	0.005	Calc
Phenols - Total by HPLC (w) _A	<0.01							mg/l	0.01	A-T-050w
Sulphide (w) _A	<0.1							mg/l	0.1	A-T-043-w
DOC - Dissolved Organic Carbon (w) _A [#]	7.8							mg/l	2	A-T-032w
Arsenic (dissolved) _A [#]	4							µg/l	1	A-T-025w
Boron (dissolved) _A [#]	341							µg/l	10	A-T-025w
Barium (dissolved) _A [#]	151							µg/l	1	A-T-025w
Beryllium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2							µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<4							µg/l	4	A-T-025w
Chromium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.05							mg/l	0.05	A-T-040w
Lead (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1							µg/l	0.1	A-T-025w
Nickel (dissolved) _A [#]	7							µg/l	2	A-T-025w
Selenium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1							µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	9							µg/l	2	A-T-025w

Envirolab Job Number: 25/06817

Client Project Name: Shinfield View

Client Project Ref: R5017

Lab Sample ID	25/06817/1							Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	CP01									
Depth to Top										
Depth To Bottom										
Date Sampled	20-Jun-25									
Sample Type	WATER - EW									
Sample Matrix Code	N/A									
PAH 16MS (w)										
Acenaphthene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.03							µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01							µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.01							µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.02							µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.03							µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.10							µg/l	0.01	A-T-019w

Envirolab Job Number: 25/06817

Client Project Name: Shinfield View

Client Project Ref: R5017

Lab Sample ID	25/06817/1									
Client Sample No										
Client Sample ID	CP01									
Depth to Top										
Depth To Bottom										
Date Sampled	20-Jun-25									
Sample Type	WATER - EW									
Sample Matrix Code	N/A									
TPH CWG (w) with Clean Up										
Ali >C5-C6 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5							µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	6							µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	87							µg/l	5	A-T-055w
Total Aliphatics (w) _A [#]	93							µg/l	5	Calc-As Recd
Aro >C5-C7 (w) _A [#]	<1							µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1							µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	5							µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5							µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	10							µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	17							µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	28							µg/l	10	A-T-055w
Total Aromatics (w) _A [#]	60							µg/l	10	Calc-As Recd
TPH (Ali & Aro >C5-C35) (w) _A	153							µg/l	10	Calc-As Recd
BTEX - Benzene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1							µg/l	1	A-T-022w
MTBE (w) _A [#]	<1							µg/l	1	A-T-022w

Report Notes

General

- This report shall not be reproduced, except in full, without written approval from Envirolab.
- The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
- The results reported herein relate only to the material supplied to the laboratory.
- The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
- Analytical results reflect the quality of the sample at the time of analysis only.
- Opinions and Interpretations expressed are outside our scope of accreditation.
- A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
- If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
- Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript “#”	Accredited to ISO 17025
Superscript “M”	Accredited to MCertS
Superscript “U”	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript “A”	Analysis performed on as-received Sample
Subscript “D”	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript “D” on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript “A”	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis

“Trace Asbestos Identified” will be reported if there is not enough present to verify the type.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs

Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as “% stones >10mm”.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any “A” subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any “D” subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.

Results “with Clean up” indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.

Where these humic substances have been identified in any IDs from “TPH CWG with clean up” please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Earth Environmental & Geotechnical Ltd (Reading), Suite 18, Wyvols Court,
Swallowfield, Reading, UK, RG7 1WY

Project No: 25/06817

Date Received: 25/06/2025 (am)

Project: Shinfield View

Cool Box Temperatures (°C): 15.8

Clients Project No: R5017

Lab Sample ID	25/06817/1
Client Sample No	
Client Sample ID/Depth	CP01
Date Sampled	20/06/25
Deviation Code	
A7 (no HNO3)	✓
A8 (no NaOH)	✓
A9 (no H2SO4)	✓
F	✓

Key

A7 (no HNO3) No HNO3 preserved bottle provided (dissolved metals will be deviating)
A8 (no NaOH) No NaOH preserved bottle provided (cyanides, sulphide will be deviating)
A9 (no H2SO4) No H2SO4 preserved bottle provided (phenols, ammonia, DOC, COD will be deviating)
F Maximum holding time exceeded between sampling date and analysis for analytes listed below

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/06817/1
Client Sample No	
Client Sample ID/Depth	CP01
Date Sampled	20/06/25
pH (w)	✓

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/06817/1
Client Sample No	
Client Sample ID/Depth	CP01
Date Sampled	20/06/25
A-T-019w	30/06/2025
A-T-022w	30/06/2025
A-T-025w	04/07/2025
A-T-026w	30/06/2025
A-T-031w	30/06/2025
A-T-032w	03/07/2025
A-T-040w	30/06/2025
A-T-042wFCN	01/07/2025
A-T-042wTCN	01/07/2025
A-T-043-w	27/06/2025
A-T-050w	08/07/2025
A-T-055w	30/06/2025
Calc	01/07/2025
Calc-As Recd	30/06/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

APPENDIX 5

GAS MONITORING RESULTS

Gas Monitoring Record

Project Number:	5017
Project Name:	Shinefeld View
Date:	20/06/2025
Logger	TS

Weather:	Warm Dry
----------	----------

*mbgl - Meters below Ground Level

			Initial	10 secs	20 secs	30 secs	40 secs	50 secs	60 secs	70 secs	80 secs	90 secs	100 secs	110 secs	120 secs	130 secs	140 secs	150 secs	180 secs	300 secs	Steady State Flow Readings (taken after gas readings)		Groundwater Level (mbgl*)	Borehole Base (mbgl*)	Comments
Borehole ID	CP01	CH4 (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			2.45	2.91	Water sample recovered from 2.70mbgl
Flow Rate (l/hr)	0	CO2 (%)	0	0.1	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.2	Flow Rate (l/hr)	0			
Atmospheric Pressure (mbar)	1015	O2 (%)	21.1	19.1	18.7	18.6	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.6	18.6	18.6	19	Atmospheric Pressure (mbar)	1015			
Borehole Pressure (Pa)	0	CO (ppm)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Borehole Pressure (Pa)	0			
Time	11:59	H2S (ppm)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Time	12:08			
Peak VOC		LEL (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Peak VOC	0			

Gas Monitoring Record

Project Number:	R5017
Project Name:	Shirfield View
Date:	23/06/2025
Logger	AT

Weather:	Sunny, hot
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*mbgl - Meters below Ground Level

			Initial	10 secs	20 secs	30 secs	40 secs	50 secs	60 secs	70 secs	80 secs	90 secs	100 secs	110 secs	120 secs	130 secs	140 secs	150 secs	180 secs	300 secs	Steady State Flow Readings (taken after gas readings)		Groundwater Level (mbgl*)	Borehole Base (mbgl*)	Comments
Borehole ID	CP01	CH4 (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			2.43	2.93	
Flow Rate (l/hr)	0	CO2 (%)	0	4.8	7.8	8	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.2	8.2	8.2	8.2	8.3	8.5	Flow Rate (l/hr)	0			
Atmospheric Pressure (mbar)	1006	O2 (%)	20.4	16	14.7	14.3	14.2	14.2	14.1	14.1	14.1	14	14	14	14	14	14	14	13.9	13.9	Atmospheric Pressure (mbar)	1006			
Borehole Pressure (Pa)	0	CO (ppm)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Borehole Pressure (Pa)	0			
Time	09:46	H2S (ppm)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Time	09:52			
Peak VOC		LEL (%)	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	Peak VOC				

Gas Monitoring Record

Project Number:	R5017
Project Name:	Shirfield View
Date:	30/06/2025
Logger	AT

Weather:	Sunny, hot, dry
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*mbgl - Meters below Ground Level

			Initial	10 secs	20 secs	30 secs	40 secs	50 secs	60 secs	70 secs	80 secs	90 secs	100 secs	110 secs	120 secs	130 secs	140 secs	150 secs	180 secs	300 secs	Steady State Flow Readings (taken after gas readings)		Groundwater Level (mbgl [†])	Borehole Base (mbgl [†])		Comments
Borehole ID	CP01	CH4 (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			2.38	2.93		
Flow Rate (l/hr)	0	CO2 (%)	0	1.5	3	3	3	3	3	3	3	3	3	3	2.9	2.9	2.9	2.9	2.7	2.3	Flow Rate (l/hr)	0				
Atmospheric Pressure (mbar)	1012	O2 (%)	20.4	19.4	18.7	18.6	18.6	18.5	18.5	18.5	18.5	18.5	18.5	18.6	18.6	18.6	18.6	18.8	19.3	Atmospheric Pressure (mbar)	1012					
Borehole Pressure (Pa)	0	CO (ppm)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Borehole Pressure (Pa)	0					
Time	09:39	H2S (ppm)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Time	09:44					
Peak VOC		LEL (%)	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	Peak VOC						

APPENDIX 6

REPORT LIMITATIONS

REPORT LIMITATIONS

This contract was completed by Earth Environmental & Geotechnical Ltd on the basis of a defined programme and scope of works and terms and conditions agreed with the client. This report was compiled with all reasonable skill, and care, bearing in mind the project objectives, the agreed scope of works, the prevailing site conditions, the budget and staff resources allocated to the project.

Other than that, expressly contained in the above paragraph, Earth Environmental & Geotechnical Ltd provides no other representation or warranty whether express or implied, is made in relation to the services. Unless otherwise agreed this report has been prepared exclusively for the use and reliance of the client in accordance with generally accepted consulting practices and for the intended purposes as stated in the agreement under which this work was completed. This report may not be relied upon, or transferred to, by any other party without the written agreement of a Director of Earth Environmental & Geotechnical Ltd.

If a third party relies on this report, it does so wholly at its own and sole risk and Earth Environmental & Geotechnical Ltd disclaims any liability to such parties.

It is Earth Environmental & Geotechnical Ltd understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was an important factor in determining the scope and level of the services. Should the purpose for which the report is used, or the proposed use of the site change, this report will no longer be valid and any further use of, or reliance upon the report in those circumstances by the client without Earth Environmental & Geotechnical Ltd review and advice shall be at the client's sole and own risk.

The report was written in 2026 and should be read in light of any subsequent changes in legislation, statutory requirements and industry best practices. Ground conditions can also change over time and further investigations or assessment should be made if there is any significant delay in acting on the findings of this report. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of Earth Environmental & Geotechnical Ltd. In the absence of such written advice of Earth Environmental & Geotechnical Ltd, reliance on the report in the future shall be at the client's own and sole risk. Should Earth Environmental & Geotechnical Ltd be requested to review the report in the future, Earth Environmental & Geotechnical Ltd shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between Earth Environmental & Geotechnical Ltd and the client.

The observations and conclusions described in this report are based solely upon the services that were provided pursuant to the agreement between the client and Earth Environmental & Geotechnical Ltd. Earth Environmental & Geotechnical Ltd has not performed any observations, investigations, studies or testing not specifically set out or mentioned within this report.

Earth Environmental & Geotechnical Ltd is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, Earth Environmental & Geotechnical Ltd did not seek to evaluate the presence on or off the site of electromagnetic fields, lead paint, radon gas or other radioactive materials.

The services are based upon Earth Environmental & Geotechnical Ltd observations of existing physical conditions at the site gained from a walkover survey of the site together with Earth Environmental & Geotechnical Ltd interpretation of information including documentation, obtained from third parties and from the client on the history and usage of the site. The findings and recommendations contained in this report are based in part upon information provided by third parties, and whilst Earth Environmental & Geotechnical Ltd have no reason to doubt the accuracy and that it has been provided in full from those it was requested from, the items relied on have not been verified.

No responsibility can be accepted for errors within third party items presented in this report. Further Earth Environmental & Geotechnical Ltd was not authorised and did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the services. Earth Environmental & Geotechnical Ltd is not liable for any inaccurate information, misrepresentation of data or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to Earth Environmental & Geotechnical Ltd and including the doing of any independent investigation of the information provided to Earth Environmental & Geotechnical Ltd save as otherwise provided in the terms of the contract between the client and Earth Environmental & Geotechnical Ltd.

Where field investigations have been carried out these have been restricted to a level of detail required to achieve the stated objectives of the work. Ground conditions can also be variable and as investigation excavations only allow examination of the ground at discrete locations. The potential exists for ground conditions to be encountered which are different to those considered in this report. The extent of the limited area depends on the soil and groundwater conditions, together with the position of any current structures and underground facilities and natural and other activities on site. In addition, chemical analysis was carried out for a limited number of parameters [as stipulated in the contract between the client and Earth Environmental & Geotechnical Ltd] based on an understanding of the available operational and historical information, and it should not be inferred that other chemical species are not present.

The groundwater conditions entered on the exploratory hole records are those observed at the time of investigation. The normal speed of investigation usually does not permit the recording of an equilibrium water level for any one water strike. Moreover, groundwater levels are subject to seasonal variation or changes in local drainage conditions and higher groundwater levels may occur at other times of the year than were recorded during this investigation.

Any site drawing(s) provided in this report is (are) not meant to be an accurate base plan but is (are) used to present the general relative locations of features on, and surrounding, the site.

APPENDIX H
MAINTENANCE MANAGEMENT PLAN

SuDS MAINTENANCE MANAGEMENT PLAN

This document sets out the principles for the long-term management and maintenance of the proposed surface water Sustainable Drainage Systems (SuDS) installed at the Extension at Shinfield View Carehome, School Green, Shinfield

The purpose of this document is to ensure that the adopting operator of the building is entrusted with a robust inspection and maintenance programme, ensuring the optimum operation of the surface water drainage network is continually maintained for the lifetime of the development and to prevent the increased risk of flooding both on and off site.

As a managed care home all SuDS systems will be the responsibility of the company operating/running the care home to maintain.

SUDS are engineered solutions that aim to mimic natural drainage processes. They help to reduce pollution of watercourses and localised flooding, as well as providing amenity benefit and biodiversity.

Key Factors to be considered during maintenance

- Undesirable plants – all efforts should be made to prevent drains becoming blocked and the growth of unintentional vegetation which could be detrimental to the intentional plant regime, biodiversity aims and the building fabric.
- Regular site attendance for litter collection, grass cutting and checking of inlets, outlets and control structures.
- Occasional visits to brush clean inlet gullies and drainage channels, remove silt from source control features.
- Drain heads and outlets – all drainage points must be checked every year and cleared out if necessary to ensure optimum performance.

The maintenance of all drainage features serving the development will be maintained by the building owner/operator. Ongoing maintenance activities for this infrastructure are detailed below.

All those responsible for the maintenance operations should adhere to the relevant health and safety legislation for the activities listed within this report (including lone working, if relevant). Method statements and risk assessments should always be completed prior to the undertaking of any works.

Attenuation Tank

The ongoing maintenance activities for below ground cellular storage crates are detailed below.

Attenuation Tank	
Regular Maintenance	Frequency
Inspection - Record and clean surface as required	Monthly
Litter and debris removal	Monthly
Occasional Tasks	Frequency
CCTV survey is blockages identified, jet clean as required. In line with manufacturers recommendations	As required
Remedial Work	Frequency
Jet clean as required. In line with manufacturers recommendations	As required

Catch Pit / Silt interceptor

The ongoing maintenance activities for the petrol and silt interceptor should be in line with manufacturer recommendations. A summary of the typical expected requirements is detailed below.

Catch Pit / Silt interceptor	
Regular Maintenance	Frequency
Inspection - Record and empty/clean as required	Monthly
Litter and debris removal	Monthly
Testing alarm system	Annually
Occasional Tasks	Frequency
Service – in line with manufacturers recommendations	As required in line with manufacturers recommendations
Remedial Work	Frequency
Jet clean as required. In line with manufacturers recommendations	As required in line with manufacturers recommendations

Conventional Surface Water Drainage Features

The maintenance of all drainage features serving the development will be maintained by the building owner/operator. Ongoing maintenance activities for this infrastructure are detailed below.

Maintenance Activity	Action	Frequency
Check gully pots, linear drainage channels and catchpits	Check, clean and empty gully pots and catchpits as required to remove debris and sediment	Regular - Monthly
Check manholes and inspection chambers	Inspect manholes and inspection chambers for any signs of blockages. Clean, jet and empty as required	Regular - Annually
CCTV survey and jetting of drains	Check the integrity of drains, jet and clean as required. Remove collected debris as required	As necessary Every 5 years
Hydrobrake chambers / Vortex Flow Control – visual inspection	Check and remove any silt build up or blockages in accordance with the Manufacturers recommendations	Typically annually or as required

Records

A service log will be maintained which will include details of all scheduled maintenance required. Logs will be incorporated that record when checks were carried out and whether any actions are deemed necessary. If actions are required, a breakdown of the maintenance measures undertaken or in progress will be logged along with the date when the action was or is to be scheduled.

Records will be maintained by the management company for a minimum period of 5 years.