

Site Details:

ELRS, Reginald Street, SA13 1YY

Client Ref: 3026420
Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: National Grid

Map date: 1992-1993

Scale: 1:1,250

Printed at: 1:2,000



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

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

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

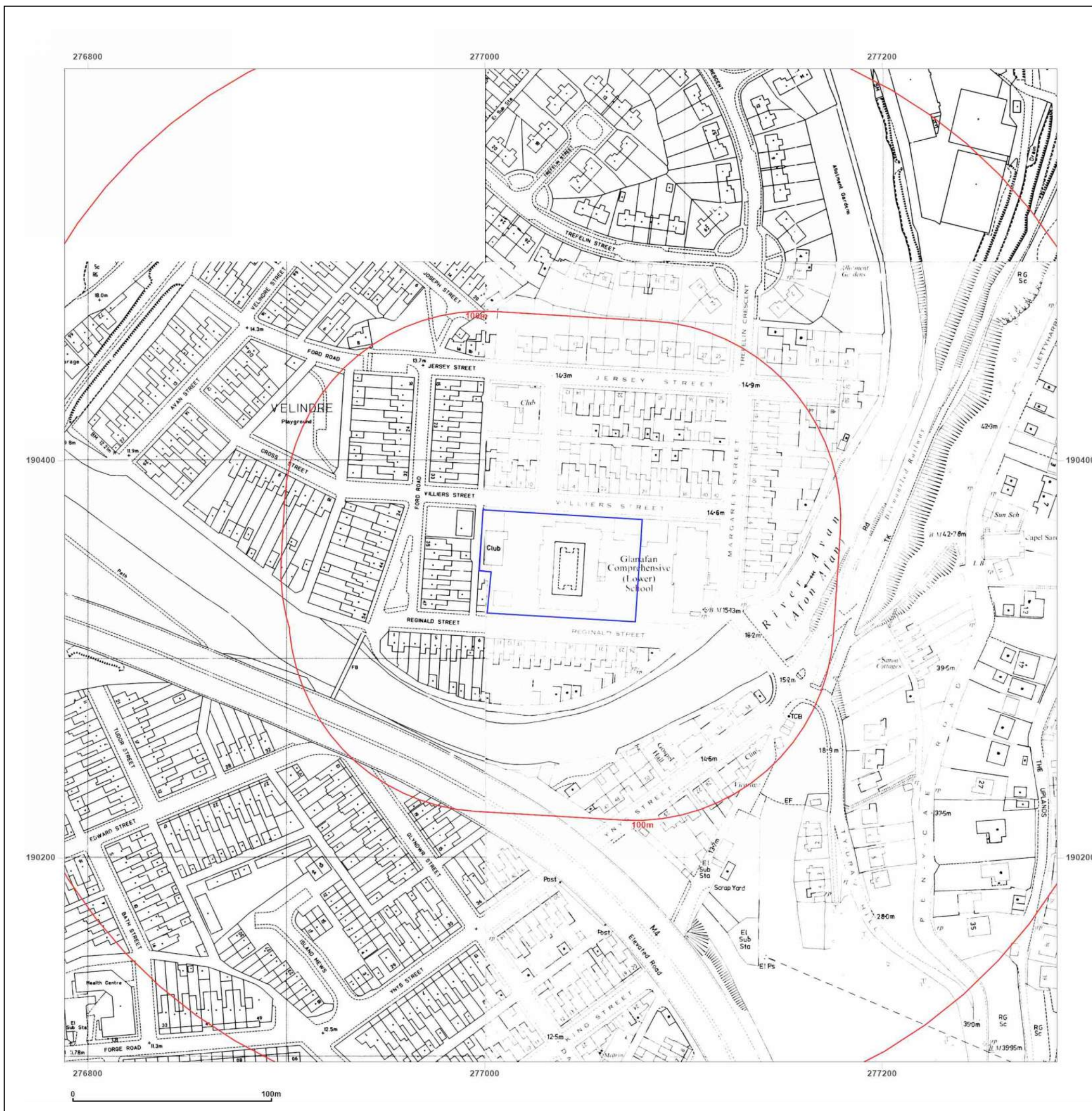


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Production date: 27 May 2025

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Site Details:

ELRS, Reginald Street, SA13 1YY

Client Ref: 3026420
Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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

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



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Grid Ref: 277038, 190347

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1993
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Site Details:

ELRS, Reginald Street, SA13 1YY

Client Ref: 3026420
Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003



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Site Details:

ELRS, Reginald Street, SA13 1YY

Client Ref: 3026420
Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: County Series

Map date: 1897-1900

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

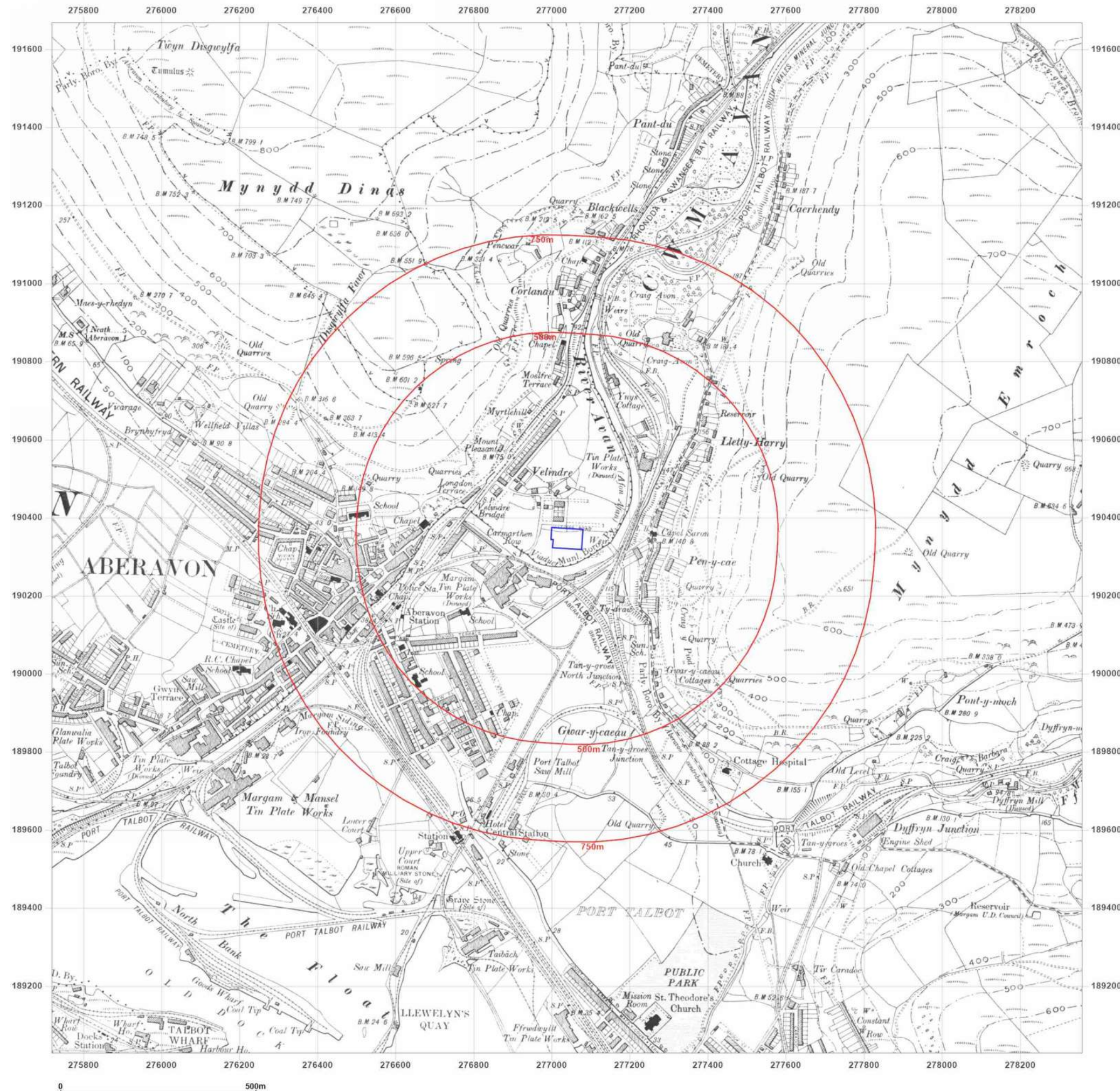


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Site Details:

ELRS, Reginald Street, SA13 1YY

Client Ref: 3026420
Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: County Series

Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1875
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

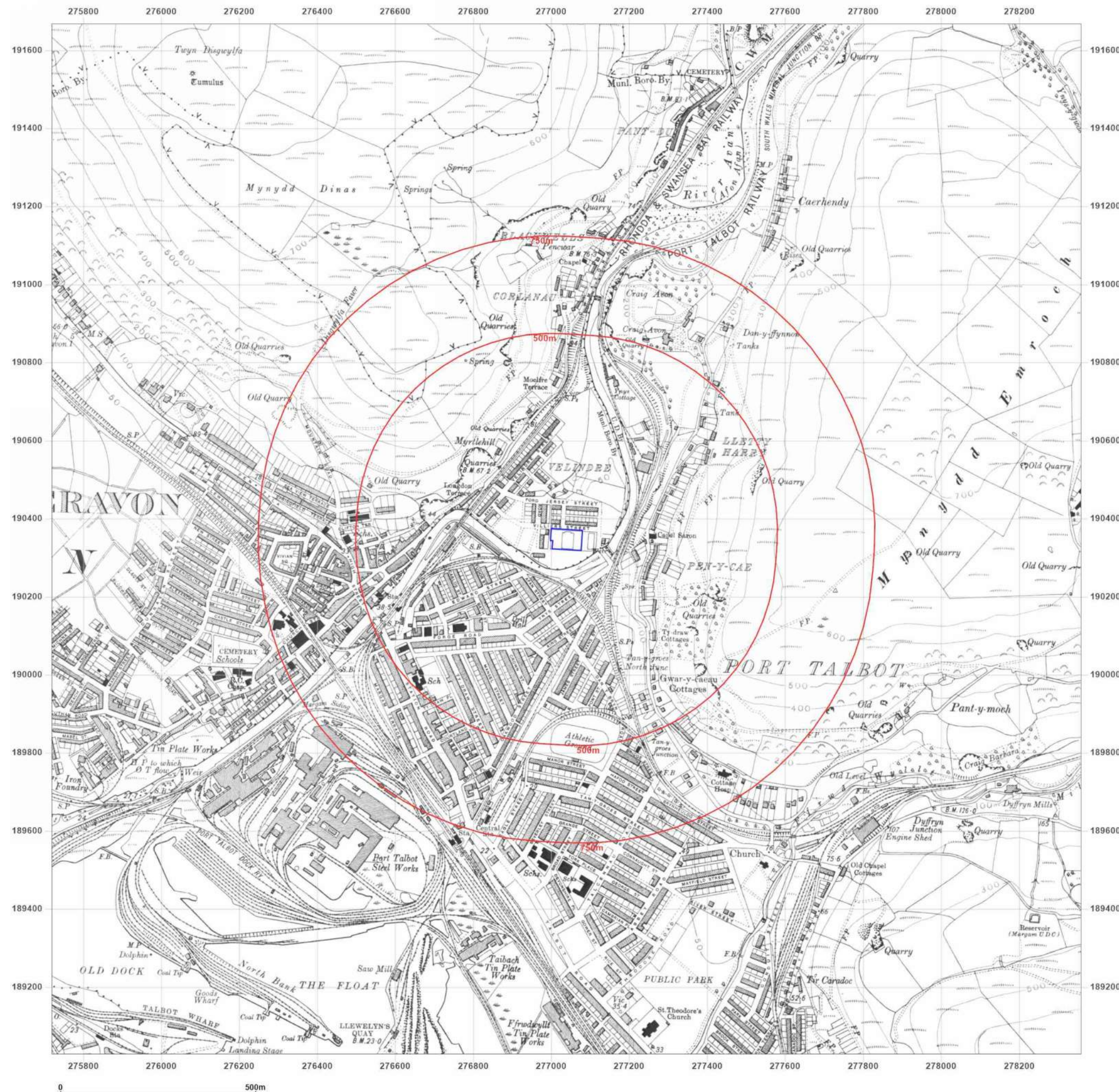


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Site Details:

ELRS, Reginald Street, SA13 1YY

Client Ref: 3026420
Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: County Series

Map date: 1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1875
Revised 1921
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1921
Edition N/A
Copyright N/A
Levelled N/A

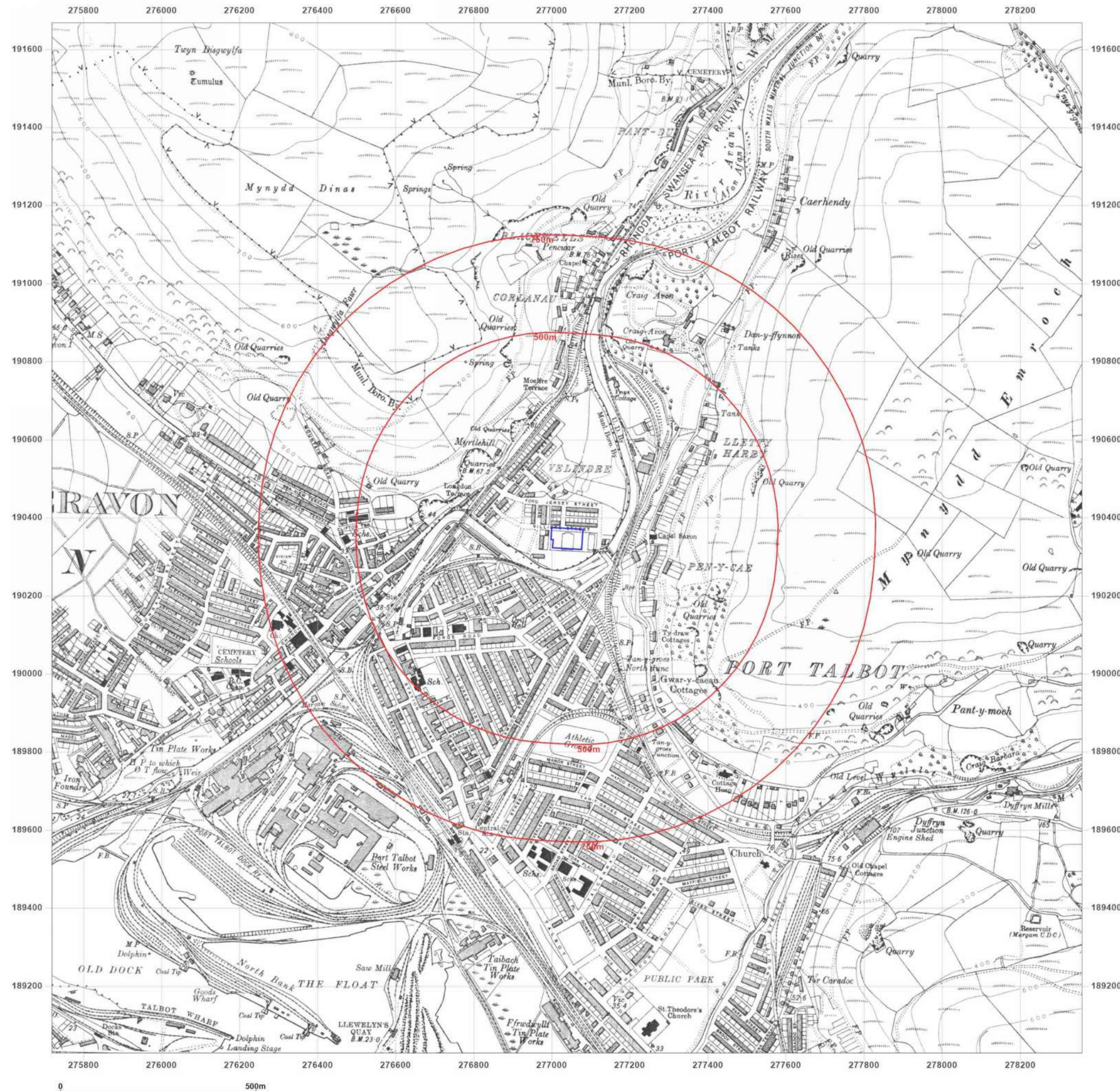


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Site Details:

ELRS, Reginald Street, SA13 1YY

Client Ref: 3026420
Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: County Series

Map date: 1947

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1875
Revised 1947
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1947
Edition N/A
Copyright N/A
Levelled 1934

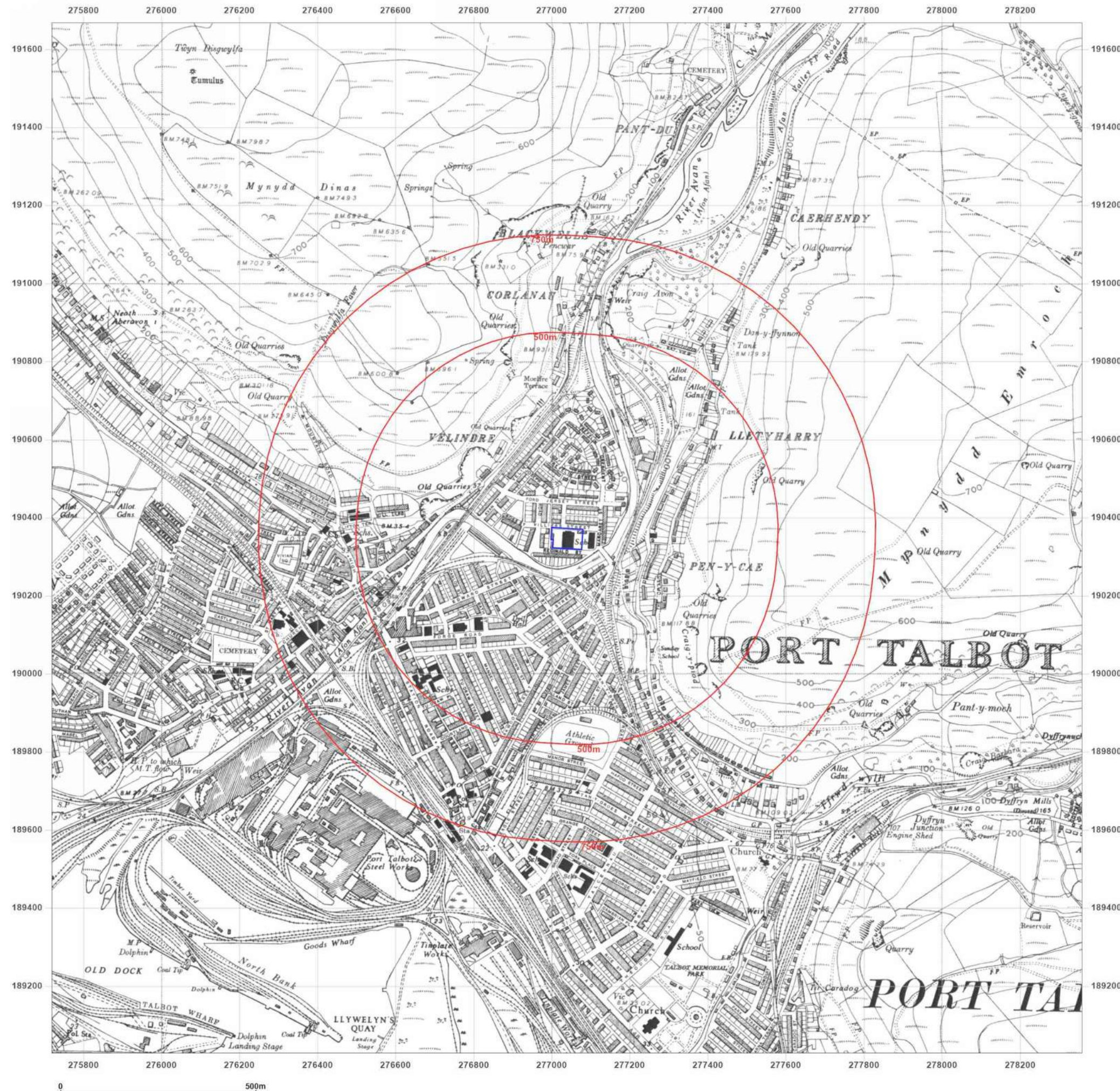


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Production date: 27 May 2025

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Site Details:

ELRS, Reginald Street, SA13 1YY

Client Ref: 3026420
Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: Provisional

Map date: 1957

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled N/A

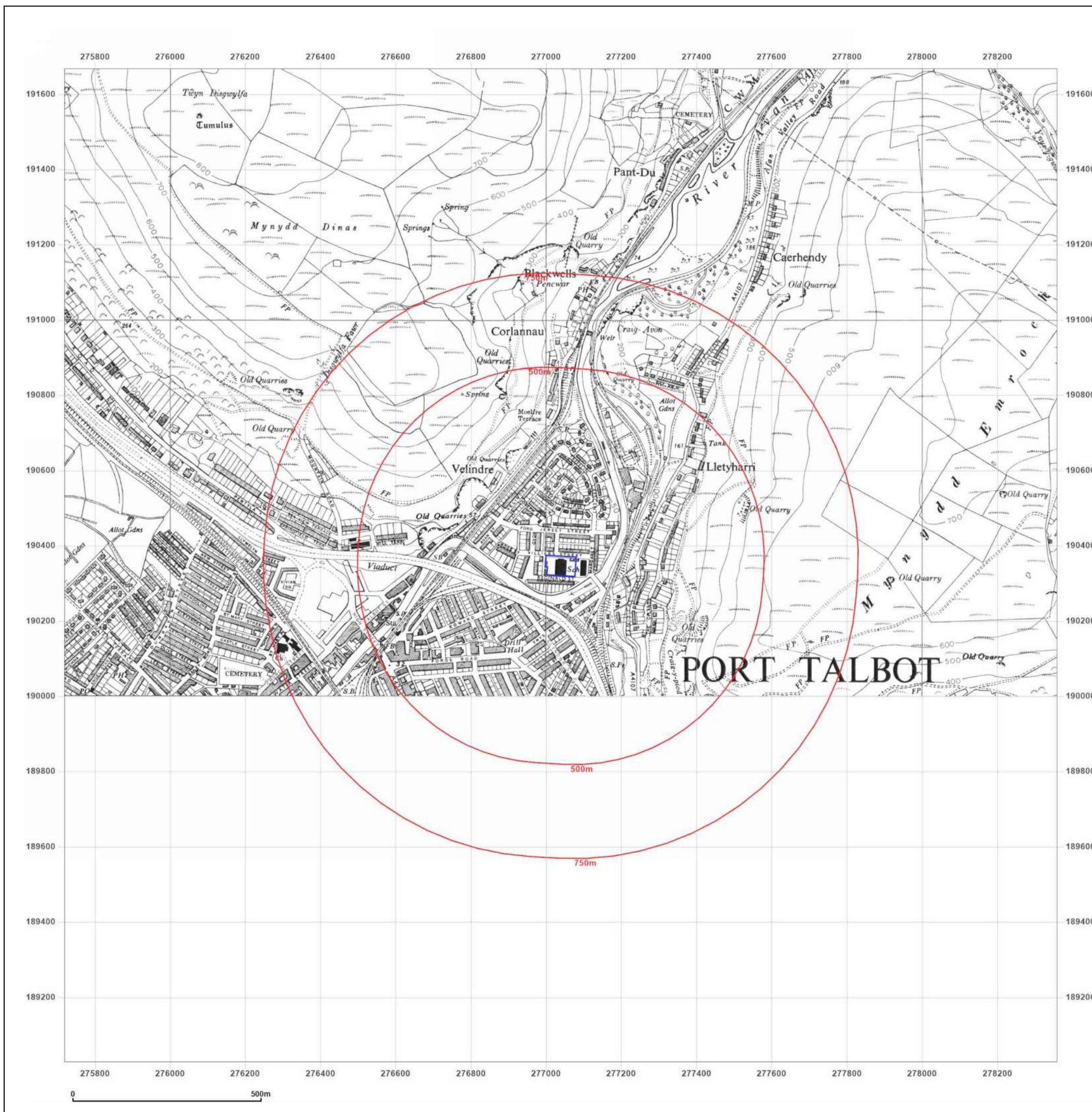


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Site Details:

ELRS, Reginald Street, SA13 1YY

Client Ref: 3026420
Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: Provisional

Map date: 1957

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled N/A

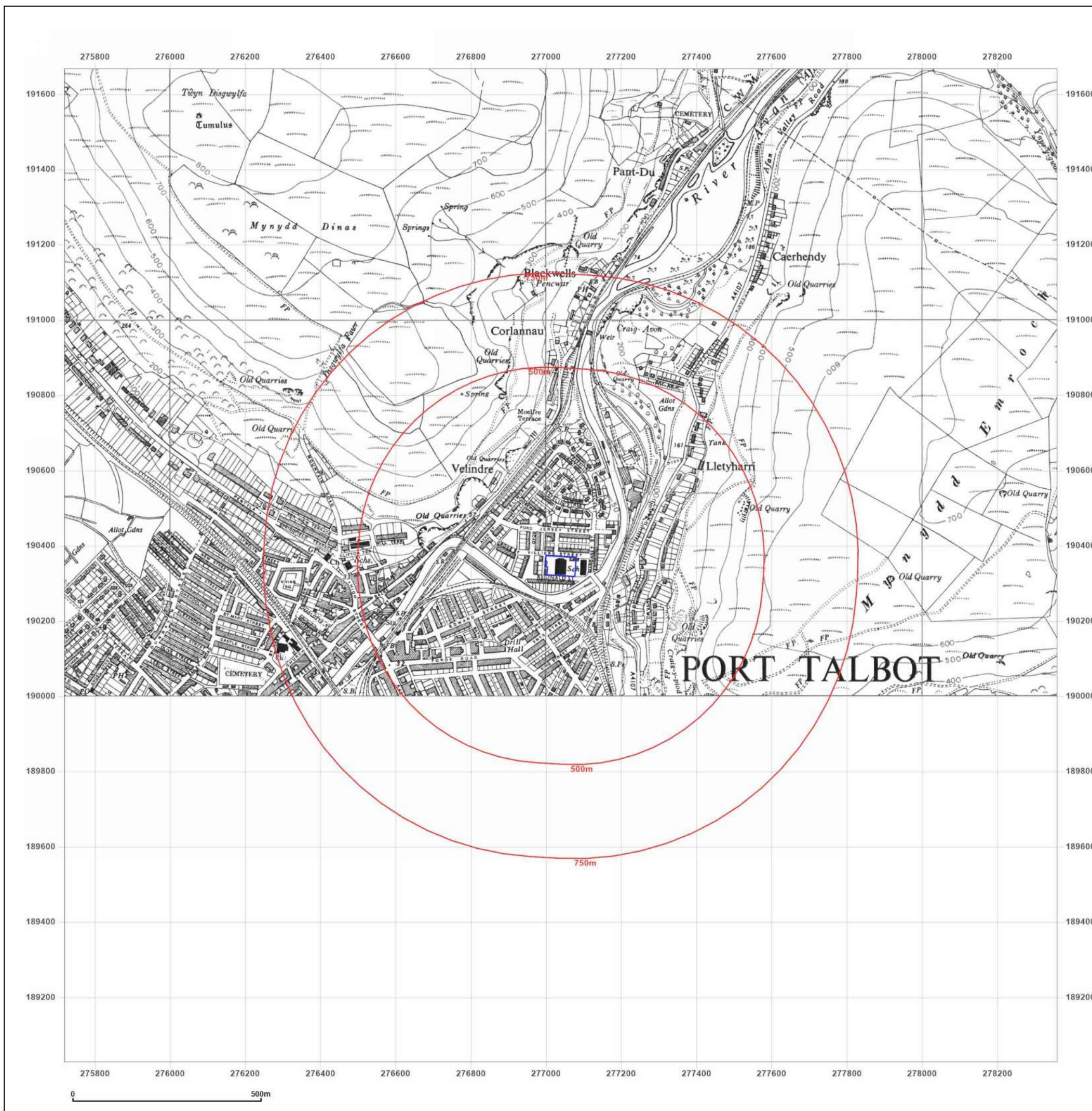


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Site Details:

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Client Ref: 3026420
Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: Provisional

Map date: 1965

Scale: 1:10,560

Printed at: 1:10,560



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

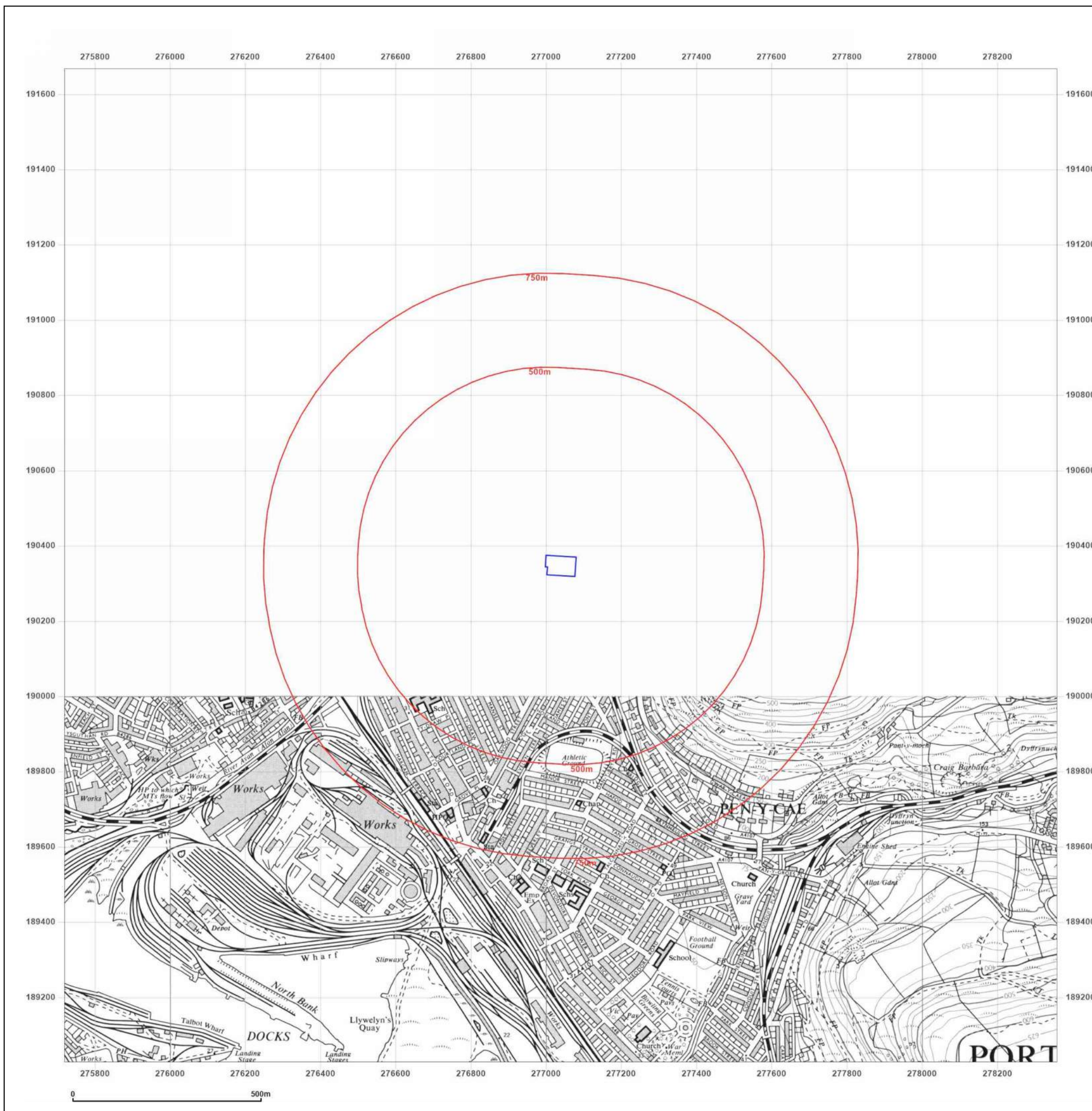


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Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: National Grid

Map date: 1980-1982

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1977
 Revised 1979
 Edition N/A
 Copyright 1980
 Levelled 1978

Surveyed 1977
 Revised 1982
 Edition N/A
 Copyright 1982
 Levelled 1978

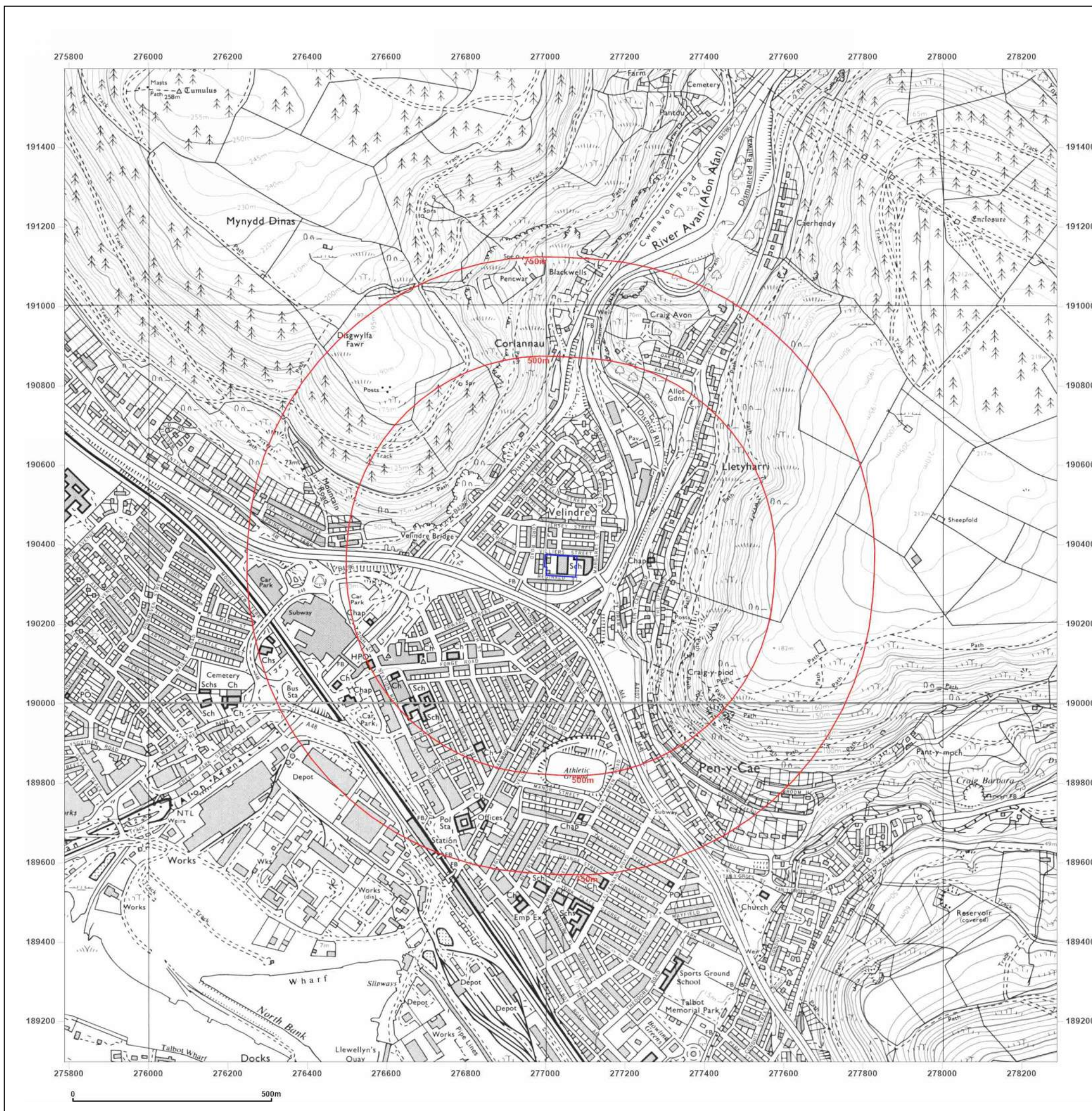


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Site Details:

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Client Ref: 3026420
Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: National Grid

Map date: 1993-1995

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1977
Revised 1995
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1991
Revised 1991
Edition N/A
Copyright 1993
Levelled N/A

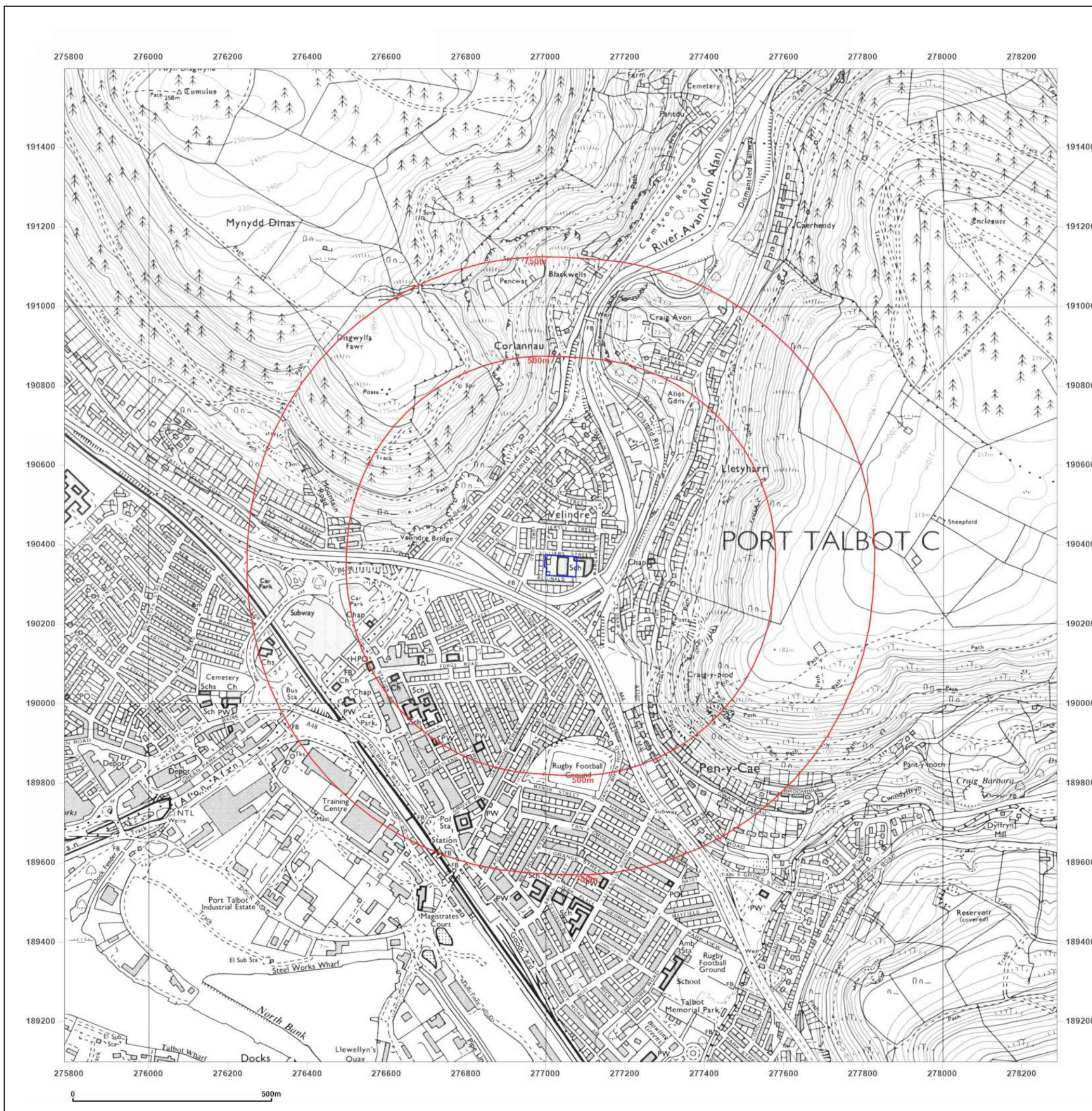


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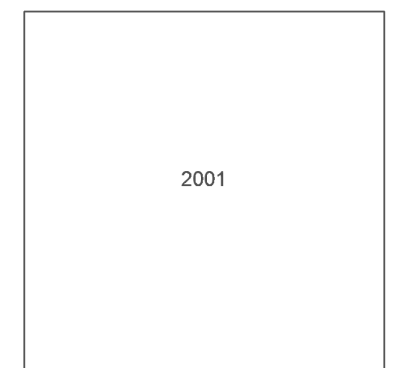
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Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

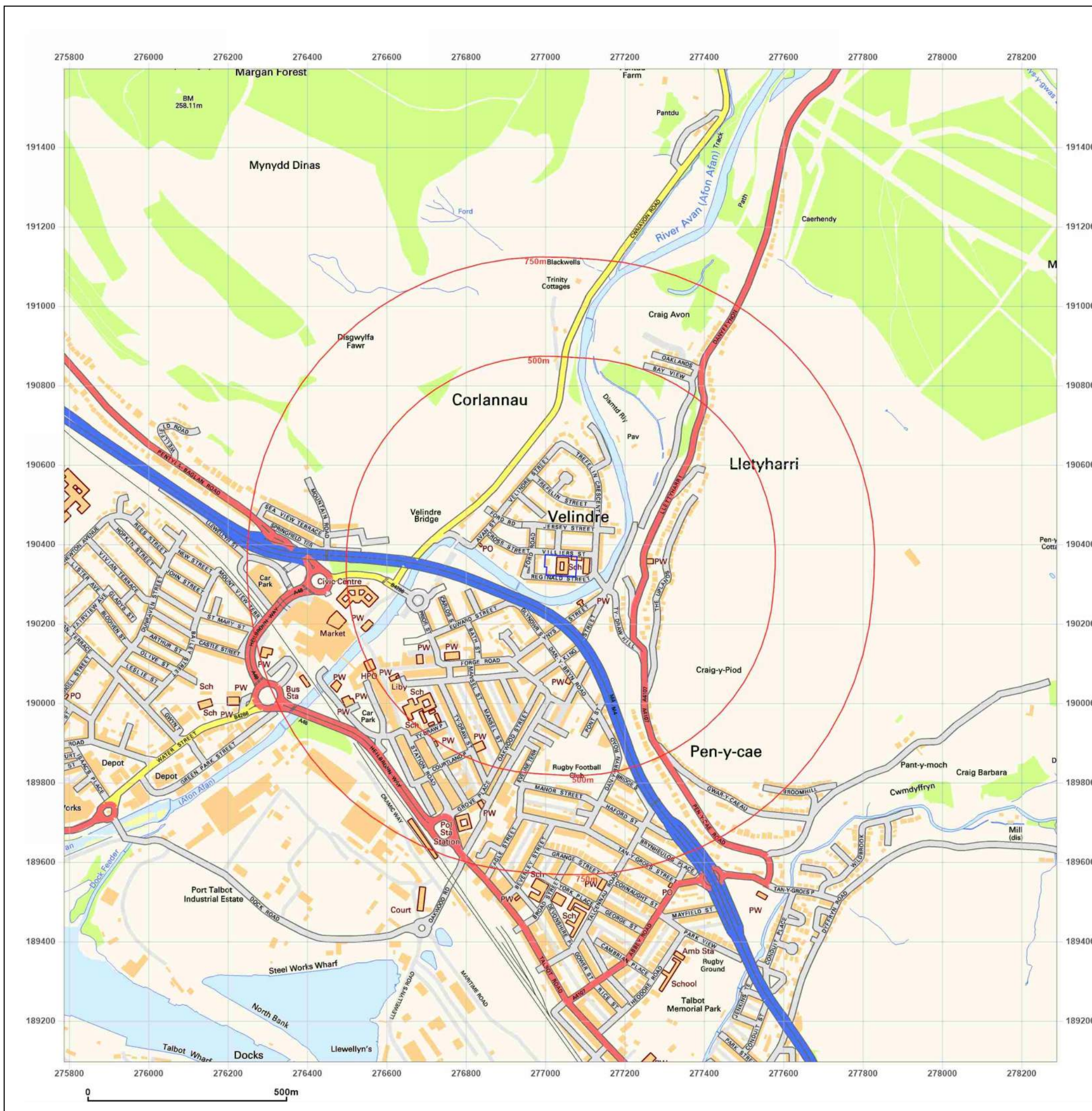


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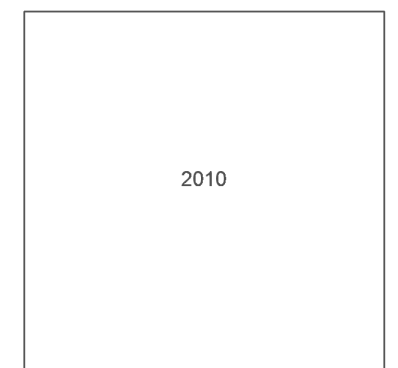
Client Ref: 3026420
Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

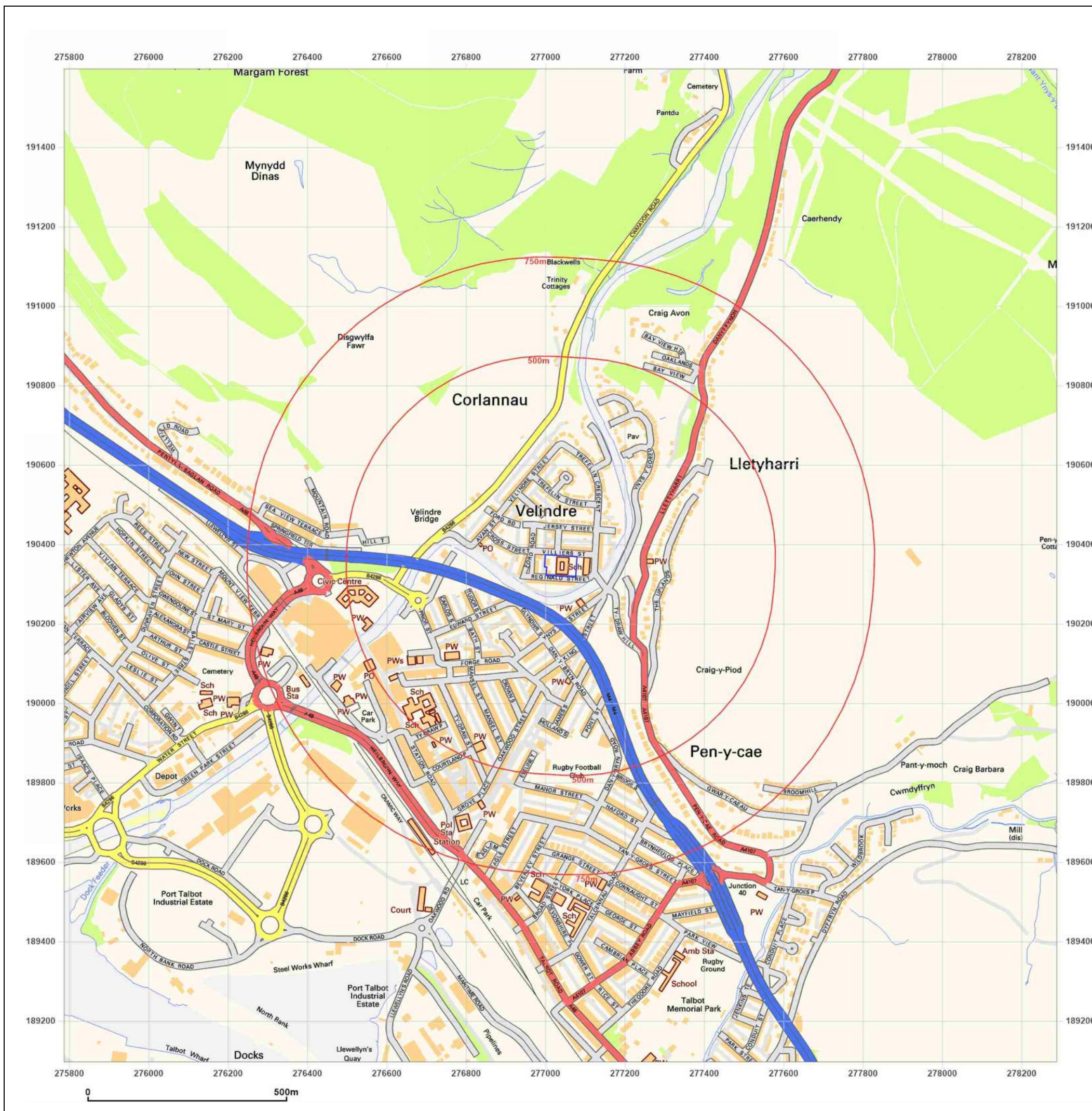


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Site Details:

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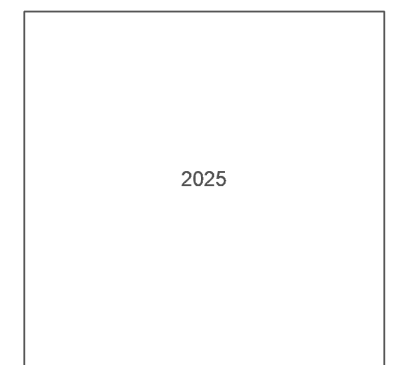
Client Ref: 3026420
Report Ref: GS-KBE-QMG-NA5-ZFR
Grid Ref: 277038, 190347

Map Name: National Grid

Map date: 2025

Scale: 1:10,000

Printed at: 1:10,000

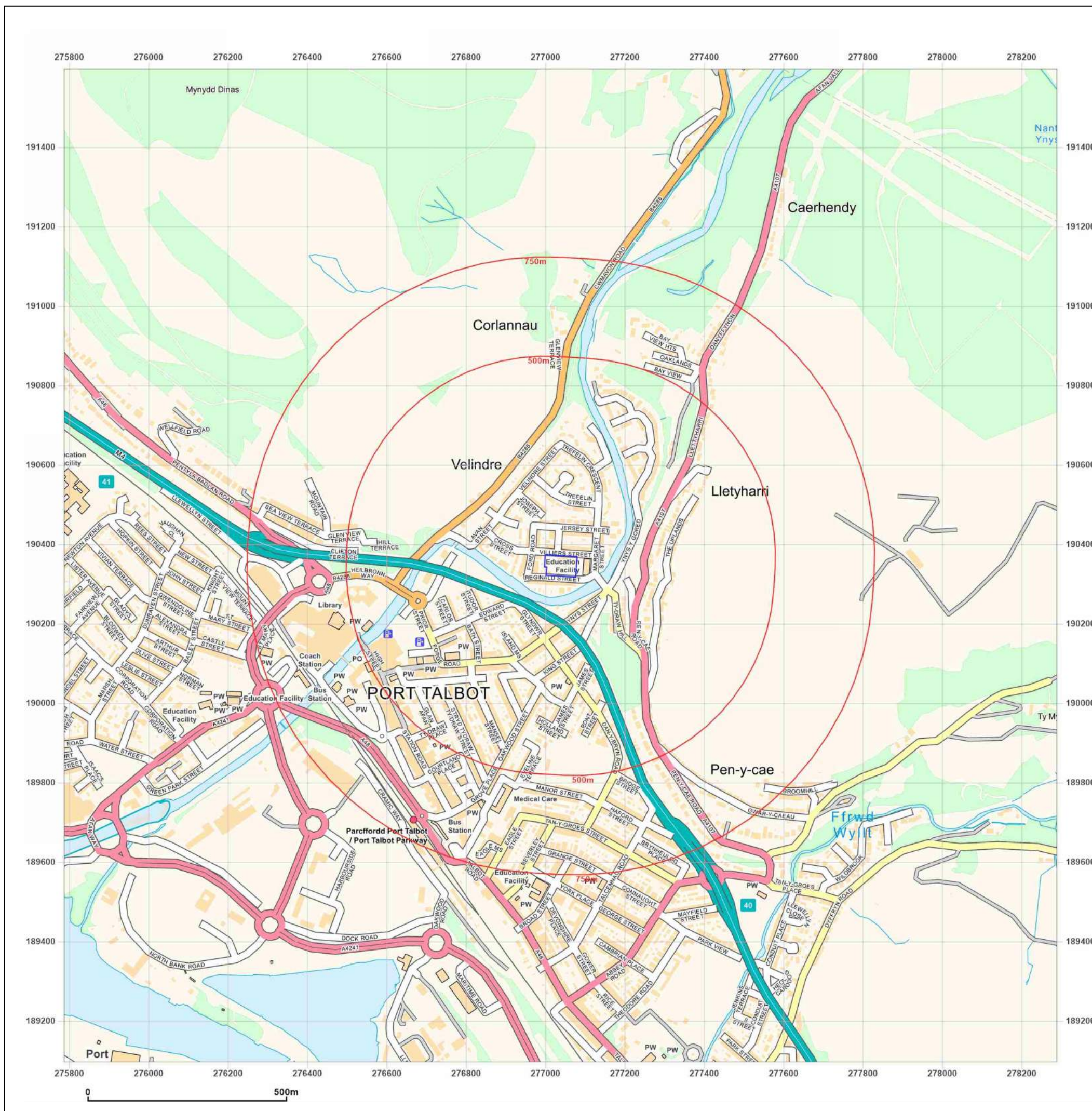


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APPENDIX C: EXPLORATORY HOLE LOGS

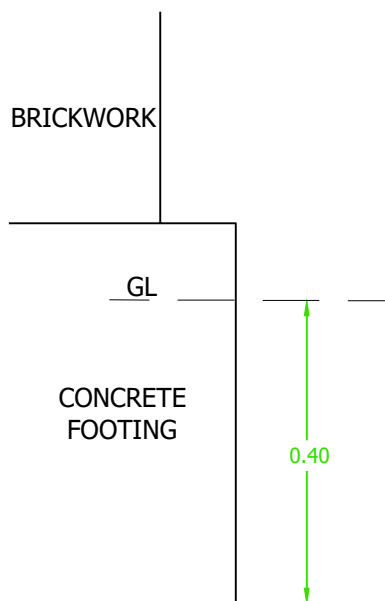


Diagram illustrating the dimensions of a stepped brickwork structure. The structure is composed of three steps, each with a horizontal width of 0.10 and a vertical height of 0.30. The total height of the structure is 0.75. The structure is labeled "BRICKWORK" and is shown above a "CONCRETE FOOTING". The ground level is marked "GL".

Diagram illustrating the calculation of brickwork volume. The diagram shows a vertical line representing the wall, a horizontal line representing the ground level (GL), and a horizontal line representing the concrete footing. The height of the brickwork is 0.60, and the height of the concrete footing is 0.80. The width of the brickwork is 0.20.

Diagram illustrating the calculation of brickwork height:

- Ground Level (GL) is marked at the top of the wall.
- The height of the brickwork is indicated as 0.90.
- The height of the concrete footing is indicated as 1.15.

The diagram illustrates a wall cross-section. The top horizontal line is labeled 'GL' (Ground Level). The main vertical section is labeled 'BRICKWORK'. The base of the wall is labeled 'CONCRETE FOOTING'. Three vertical green dimension lines indicate heights from the footing to the GL: 0.85, 1.00, and 1.20. Two horizontal green dimension lines indicate offsets from the footing edge: 0.10 and 0.10.

A horizontal scale bar with markings at 0, 100, 200, 300, 400, and 500 mm.

SCALE 1:10

PRELIMINARY ISSUE

P01	PRELIMINARY FIRST ISSUE			30.06.2025	PP	RW	
Rev	Description	Date	Dm / Chk / Asa				

Issuing Office

Tetra Tech Cardiff
Hodge House,
114-116 St Mary Street,
Cardiff,
CF10 1DY
Tel: +44 (0)29 2082 9200
www.tetratetecheurope.com



TETRA TECH

Client

NEATH PORT TALBOT COUNCIL

Project Name	
--------------	--

ELRS PORT TALBOT

Sheet Title

PIT SKETCHES

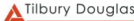
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A4	Suitability
784-B071864	PP	30.06.25	RW	30.06.25	-			S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision	
B071864	- TTE	- 00	- XX	- DR	- U	- HPS	P01	

Tt TETRA TECH Project: ELRS Port Talbot Location: Port Talbot Client: Tilbury Douglas					Location Details					Status		Borehole Number								
					Easting: 277018.88 Northing: 190346.76 Level: 13.64mAOD Depth: 7.00m Logger: Type: CP Inclination: °					FINAL		CP01								
													Sheet 1 of 2							
Method, Plant and Crew					Diameter		Casing		Drilling Progress by Time					Scale: 1:50						
From (m)	To (m)	Type	Plant Used	Crew	Depth (m)	Diam (mm)	Depth(m)	Diam (mm)	Date	Time	Depth (m)	Casing (m)	Water (m)	Checked By:	JC					
0.00	1.20	Inspection Pit	Cable Percussive Rig	CJs			7.00	200	16/06	17:00	6.50	6.50	4.10	Approved By:	NEB					
1.20	7.10	Cable Percussion	Cable Percussive Rig	CJs					17/06	13:00	7.00	7.00		Start Date:	16/06/2025					
														Finish Date:	17/06/2025					
Strata Description							Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Inst / Backfill	Samples and Testing								
												Depth (m)	Ref	Tests / Results						
MADE GROUND: Tarmac. MGR MADE GROUND: Black sandy fine to medium angular GRAVEL of sandstone and asphalt. Sand is coarse. MGR Brown sandy slightly clay GRAVEL. Gravel is of medium to coarse subrounded sandstone. Sand is medium to coarse. ALLUVIAL FAN DEPOSITS Very dense greyish brown slightly sandy fine to coarse subrounded GRAVEL of sandstone with medium cobble content and occasional boulders. Sand is coarse. ALLUVIAL FAN DEPOSITS								0.02	13.62			0.00 - 0.50	B5	SPT(S) 1.20m, N=51 (4,11/51 for 285mm)						
											0.20	ES1								
								0.50	13.14			0.50	ES2							
											0.60 - 1.20	B6								
								1.00	12.64			1.20	ES3							
											1.20 - 1.65	D19								
											1.60 - 2.00	B7								
											2.00 - 2.38	D17								
											2.50 - 3.10	B12								
											2.50 - 3.10	B8								
Very dense greyish brown sandy fine to coarse subrounded GRAVEL. Sand is coarse. ALLUVIAL FAN DEPOSITS								3.30	10.34			3.00	ES4	SPT(S) 3.10m, N=57 (6,7/13,24,11,9)						
											3.10 - 3.55	D16								
											3.60 - 4.00	B10								
											4.00 - 4.38	D20								
											4.50 - 5.10	B13								
											5.10 - 5.36	D15								
											5.50 - 6.10	B11								
											6.10 - 6.48	D18								
											6.50 - 6.80	B9								
											6.80 - 7.00	B14								
Very dense greyish brown sandy fine to coarse subrounded GRAVEL AND COBBLES. Sand is coarse. ALLUVIAL FAN DEPOSITS								6.50	7.14			6.50 - 6.80	B9	SPT(S) 7.00m, N=50 (25 for 45mm/50 for 40mm)						
								6.80	6.84			6.80 - 7.00	B14							
EOH at 7.00m -																				
Observations / Remarks 1. All locations scanned using GPR, CAT and signal generator prior to excavation. 2. Groundwater Encountered at 3.00m bgl.										Chiselling			Water Added		Hammer Information					
										From (m)	To (m)	Time (mins)	From (m)	To (m)	Serial No.	Energy Ratio %				
										2.50	2.70	15			AR4110	70				
										4.60	4.90	45								
										5.80	6.10	30								
										Groundwater					Project Number					
										Strike (m)	Casing (m)	Sealed (m)	Time (min)	Rose To (m)	Remarks	784-B071864				
										3.30	3	-	20	2.77						

[illegible]

TETRA TECH		Project: ELRS Port Talbot Location: Port Talbot Client: Tilbury Douglas		Location Details Easting: 277007.06 Northing: 190335.07 Level: 13.45mAOD Depth: 0.75m Logger: Type: IP			Status FINAL		Pit Number HP02 Sheet 1 of 1		
Tilbury Douglas	Hole Information			Groundwater				Scale: 1:10			
	Pit Dimensions	Orientation: °	Strike (m)	Rose To (m)	After (mins)	Remarks	Checked By: JC				
	0.30m 0.30m	Shoring: Stability: Plant: Hand Tools					Approved By: NEB Start Date: 17/06/2025 Finish Date: 17/06/2025				
Strata Description				Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
MADE GROUND: Tarmac. MG-R MADE GROUND: Black sandy fine to medium angular GRAVEL of sandstone, brick fragments, clay pipe fragments and asphalt. Sand is coarse. MGR					0.05	13.40			Depth (m)	Ref	Tests / Results
Soft brown sandy slightly gravelly CLAY with low cobble content. Gravel is of medium to coarse subrounded sandstone. Sand is medium to coarse. ALLUVIAL FAN DEPOSITS					0.35	13.10					
EOH at 0.75m -					0.75	12.70					
Observations / Remarks											
1. All locations scanned using GPR, CAT and signal generator prior to excavation. 2. No Groundwater Encountered.									Hodge House, 114-116 St Mary Street, Cardiff, CF10 1DY 029 2082 9200		
									Project Number 784-B071864		

Tt TETRA TECH	Project: ELRS Port Talbot		Location Details				Status		Pit Number	
	Location: Port Talbot		Easting: 277046.27 Northing: 190346.34				FINAL		HP03	
Client: Tilbury Douglas		Level: 22.48mAOD Depth: 0.80m								
		Logger: Type: IP						Sheet 1 of 1		
Tilbury Douglas	Hole Information		Groundwater					Scale: 1:10		
	Pit Dimensions 0.30m 0.30m	Orientation: °	Strike (m)	Rose To (m)	After (mins)	Remarks	Checked By: JC			
		Shoring:					Approved By: NEB			
		Stability:					Start Date: 17/06/2025			
Plant: Hand Tools							Finish Date: 17/06/2025			
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
MADE GROUND: Floor tile. MGR				0.05	22.43			Depth (m)	Ref	Tests / Results
MADE GROUND: Dark brown slightly clayey gravelly medium SAND. Gravel of brick fragments, sandstone and glass. MGR								0.20	ES1	
Pale brown sandy medium to coarse sub-rounded GRAVEL of sandstone.										
ALLUVIAL FAN DEPOSITS								0.60	ES2	
Light brown clayey slightly gravally medium to coarse SAND. Gravel of fine to medium subrounded to rounded sandstone.			0.65	21.83						
ALLUVIAL FAN DEPOSITS				0.80	21.68			0.80	ES3	
EOH at 0.80m -										
Observations / Remarks										
1. All locations scanned using GPR, CAT and signal generator prior to excavation. 2. No Groundwater Encountered.			Hodge House, 114-116 St Mary Street, Cardiff, CF10 1DY 029 2082 9200							
			Project Number 784-B071864							

	Project: ELRS Port Talbot		Location Details				Status		Pit Number	
	Location: Port Talbot		Easting: 277040.40 Northing: 190337.90				FINAL		HP04	
Client: Tilbury Douglas		Level: 14.18mAOD Depth: 1.15m								
		Logger: Type: IP						Sheet 1 of 1		
	Hole Information		Groundwater				Scale: 1:10			
	Pit Dimensions 0.30m	Orientation: °	Strike (m)	Rose To (m)	After (mins)	Remarks	Checked By: JC			
		Shoring:						Approved By: NEB		
		Stability:					Start Date: 17/06/2025			
		Plant: Hand Tools					Finish Date: 17/06/2025			
Strata Description			Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
								Depth (m)	Ref	Tests / Results
MADE GROUND: Floor tile. MGR				0.05	14.12			0.20	ES1	
MADE GROUND: Dark brown slightly clayey gravelly medium SAND. Gravel of brick fragments, sandstone and glass. MGR										
Pale brown sandy medium to coarse sub-rounded GRAVEL of sandstone. ALLUVIAL FAN DEPOSITS				0.30	13.88			0.70	ES2	
Light brown clayey slightly gravally medium to coarse SAND. Gravel of fine to medium subrounded to rounded sandstone. ALLUVIAL FAN DEPOSITS				0.80	13.38					
EOH at 1.15m -				1.15	13.02					
Observations / Remarks										
1. All locations scanned using GPR, CAT and signal generator prior to excavation.			Hodge House, 114-116 St Mary Street, Cardiff, CF10 1DY							
2. No Groundwater Encountered.										
			029 2082 9200							
			Project Number							
			784-B071864							

TETRA TECH		Project: ELRS Port Talbot Location: Port Talbot Client: Tilbury Douglas		Location Details Easting: 277059.00 Northing: 190348.87 Level: 13.89mAOD Depth: 1.32m Logger: Type: IP			Status FINAL		Pit Number HP05 Sheet 1 of 1	
Tilbury Douglas	Hole Information			Groundwater					Scale: 1:10	
	Pit Dimensions	Orientation: °	Strike (m)	Rose To (m)	After (mins)	Remarks	Checked By: JC			
	0.30m 0.30m	Shoring: Stability: Plant: Hand Tools					Approved By: NEB Start Date: 17/06/2025 Finish Date: 17/06/2025			
Strata Description				Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing	
MADE GROUND: Tarmac. MG-R MADE GROUND: Black sandy fine to medium angular GRAVEL of sandstone, brick fragments, clay pipe fragments and asphalt. Sand is coarse. MGR					0.05	13.84			0.15	ES1
Soft brown sandy slightly gravelly CLAY with low cobble content. Gravel is of medium to coarse subrounded sandstone. Sand is medium to coarse. ALLUVIAL FAN DEPOSITS					0.50	13.39				
Greyish brown sandy fine to coarse subrounded GRAVEL of sandstone with medium cobble content and occasional boulders. Sand is coarse. ALLUVIAL FAN DEPOSITS					0.90	12.99			0.90	ES2
EOH at 1.32m - Trial pit collapse.					1.32	12.57				
Observations / Remarks									Hodge House, 114-116 St Mary Street, Cardiff, CF10 1DY 029 2082 9200	
1. All locations scanned using GPR, CAT and signal generator prior to excavation. 2. No Groundwater Encountered.									Project Number 784-B071864	

TETRA TECH		Project: ELRS Port Talbot Location: Port Talbot Client: Tilbury Douglas		Location Details Easting: 277051.46 Northing: 190366.62 Level: 13.85mAOD Depth: 1.20m Logger: Type: IP			Status FINAL		Pit Number HP06 Sheet 1 of 1	
Tilbury Douglas	Hole Information			Groundwater					Scale: 1:10	
	Pit Dimensions	Orientation: °	Strike (m)	Rose To (m)	After (mins)	Remarks	Checked By: JC			
	0.30m 0.30m	Shoring: Stability: Plant: Hand Tool					Approved By: NEB Start Date: 17/06/2025 Finish Date: 17/06/2025			
Strata Description				Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing	
MADE GROUND: Tarmac. MG-R MADE GROUND: Black sandy fine to medium angular GRAVEL of sandstone, brick fragments, clay pipe fragments and asphalt. Sand is coarse. MGR					0.05	13.80			0.30	ES1
Soft brown sandy slightly gravelly CLAY with low cobble content. Gravel is of medium to coarse subrounded sandstone. Sand is medium to coarse. ALLUVIAL FAN DEPOSITS					0.40	13.45			0.50	ES2
Greyish brown sandy fine to coarse subrounded GRAVEL of sandstone with medium cobble content and occasional boulders. Sand is coarse. ALLUVIAL FAN DEPOSITS					0.70	13.15			1.00	ES3
EOH at 1.20m -					1.20	12.65				
Observations / Remarks									Hodge House, 114-116 St Mary Street, Cardiff, CF10 1DY 029 2082 9200	
1. All locations scanned using GPR, CAT and signal generator prior to excavation. 2. No Groundwater Encountered.									Project Number 784-B071864	

[illegible]

TtTETRA TECH		Project: ELRS Port Talbot Location: Port Talbot Client: Tilbury Douglas		Location Details Easting: 277010.40 Northing: 190345.10 Level: 13.60mAOD Depth: 1.60m Logger: Type: TP			Status FINAL		Pit Number SA02 Sheet 1 of 1		
Tilbury Douglas	Hole Information			Groundwater					Scale: 1:25		
	Pit Dimensions	Orientation: 0°	Strike (m)	Rose To (m)	After (mins)	Remarks	Checked By: JC				
	0.60m 1.50m	Shoring: Stability: collapse at 1.4m bgl. Plant: 3CX					Approved By: NEB Start Date: 16/06/2025 Finish Date: 16/06/2025				
Strata Description				Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
MADE GROUND: Tarmac. MG-R MADE GROUND: Black sandy fine to medium angular GRAVEL of sandstone and asphalt. Sand is coarse. MGR					0.02	13.58			0.30	ES1	
Brown gravelly slightly clayey SAND. Gravel is of medium to coarse subrounded sandstone. Sand is medium to coarse.					0.60	13.00			0.70 - 0.90 0.80	B4 ES2	
ALLUVIAL FAN DEPOSITS					1.00	12.60			1.10 - 1.40	B5	
Greyish brown slightly sandy fine to coarse subrounded GRAVEL of sandstone with medium cobble content and occasional boulders. Sand is coarse. ALLUVIAL FAN DEPOSITS									1.40	ES3	
EOH at 1.60m -					1.60	12.00					
Observations / Remarks				Hodge House, 114-116 St Mary Street, Cardiff, CF10 1DY 029 2082 9200 Project Number 784-B071864							
1. All locations scanned using GPR, CAT and signal generator prior to excavation. 2. No Groundwater Encountered.											

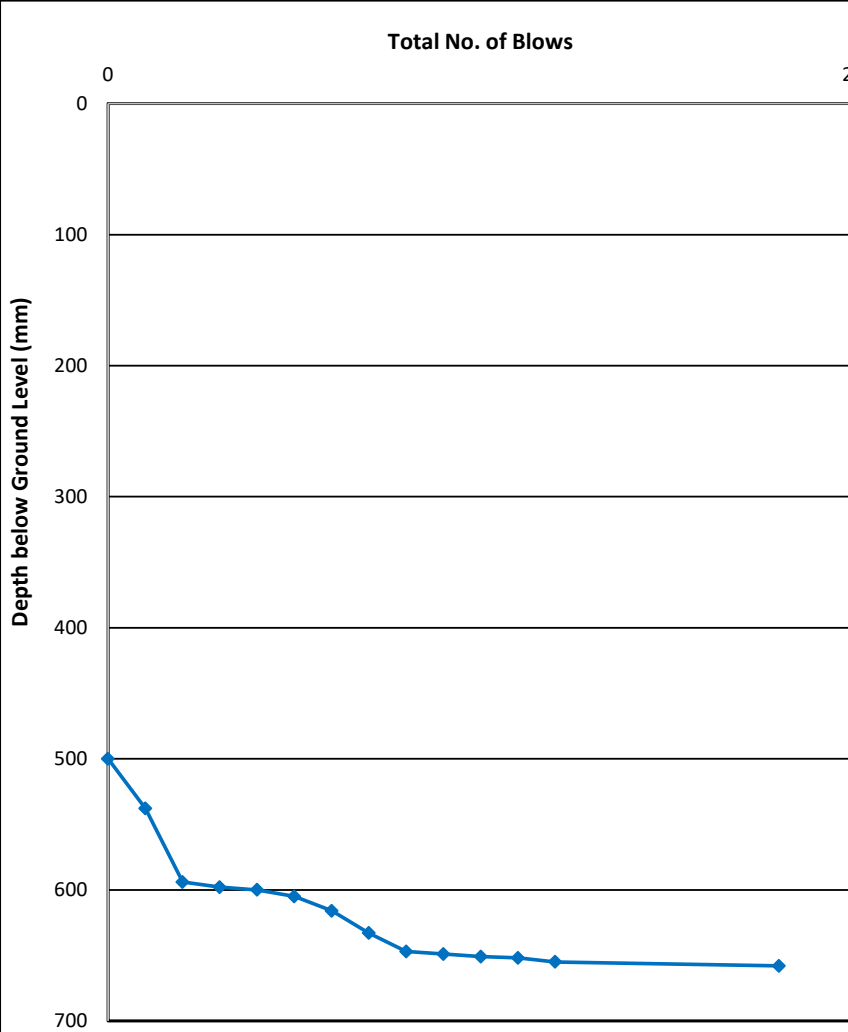
TETRA TECH		Project: ELRS Port Talbot Location: Port Talbot Client: Tilbury Douglas		Location Details Easting: 277069.59 Northing: 190362.62 Level: 14.00mAOD Depth: 2.00m Logger: Type: TP			Status FINAL		Pit Number SA03 Sheet 1 of 1		
Tilbury Douglas	Hole Information			Groundwater					Scale: 1:25		
	Pit Dimensions		Orientation: 90°	Strike (m)	Rose To (m)	After (mins)	Remarks		Checked By: JC		
	0.60m 1.50m		Shoring: Stability: Stable Plant: 3CX					Approved By: NEB Start Date: 16/06/2025 Finish Date: 16/06/2025			
Strata Description				Legend	Depth (m)	Reduced Level (mAOD)	Water Level (m)	Backfill	Samples and Testing		
MADE GROUND: Tarmac. MG-R MADE GROUND: Light grey slightly sandy fine to medium angular GRAVEL (6F1 or similar). MGR Soft brown sandy slightly gravely CLAY with low cobble content. Gravel is of medium to coarse subrounded sandstone. Sand is medium to coarse. ALLUVIAL FAN DEPOSITS					0.02	13.98			0.15	ES1	
					0.25	13.75					
					1.12	12.88					
Greyish brown sandy fine to coarse subrounded GRAVEL of sandstone with medium cobble content and occasional boulders. Sand is coarse. ALLUVIAL FAN DEPOSITS					2.00	12.00			1.20 1.20 - 1.50	ES2 B3	
EOH at 2.00m -											
Observations / Remarks											
1. All locations scanned using GPR, CAT and signal generator prior to excavation. 2. No Groundwater Encountered.										Hodge House, 114-116 St Mary Street, Cardiff, CF10 1DY 029 2082 9200	
										Project Number 784-B071864	

[illegible]

APPENDIX D: TRL PROBE TEST RESULTS

DCP w. In Situ CBR v1.1 (03/09/2018)

Client	Tilbury Douglas	Tetra Tech Ltd Hodge House, 114-116 St Mary Street, Cardiff, CF10 1DY Tt TETRA TECH					
Project No:	784-B071864						
Hole Number:	HP03						
Final Depth (m):	0.66						
Easting (x):	277046.27						
Northing (y):	190346.34	Start Depth (mm)	500	Zero Reading (mm)	146	Test Number	1
Elevation (m AOD):	22.48	Logged by:	Ross Wright				
Weather:	Warm Sunny	Logged Date:	17/06/2025				

[illegible]

Checked by :	NEB	Complete
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CBR values derived from DCP by Highways specification: $\text{Log}_{10}(\text{CBR}) = 2.48 - 1.057 (\text{Log}_{10}(\text{mm/blow}))$

Test Remarks:



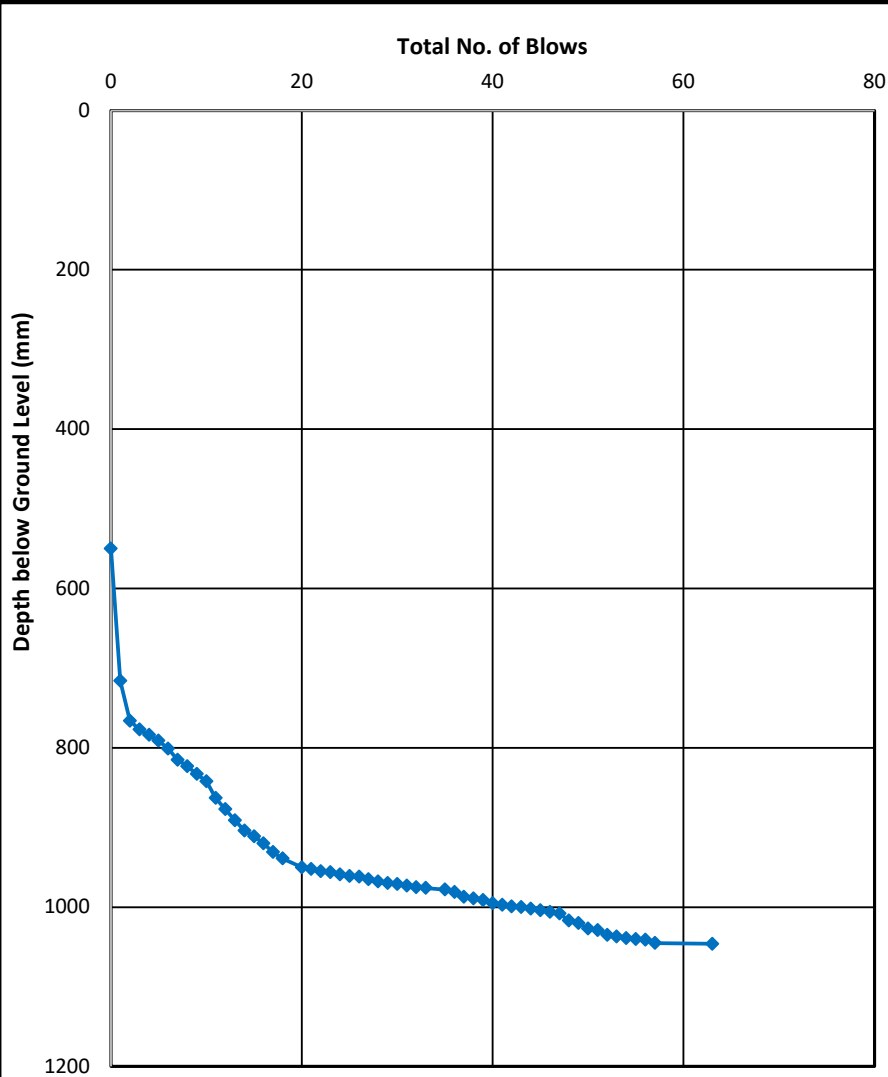
DCP w. In Situ CBR v1.1 (03/09/2018)

Client	Tilbury Douglas	Tetra Tech Ltd Hodge House, 114-116 St Mary Street, Cardiff, CF10 1DY  TETRA TECH					
Project No:	784-B071864						
Hole Number:	HP05						
Final Depth (m):	0.81						
Easting (x):	277059						
Northing (y):	190348.87	Start Depth (mm)	500	Zero Reading (mm)	214	Test Number	1
Elevation (m AOD):	13.89	Logged by:	RW				
Weather:	Overcast	Logged Date:	17/06/2025				

Total No. of Blows				Data			
				1	Total Blows	Reading (mm)	Penetration (mm)
				1	0	214	0
				1	2	224	10
				1	3	256	32
				1	4	264	8
				1	5	280	16
				1	6	291	11
				1	7	294	3
				1	8	310	16
				1	9	315	5
				1	10	326	11
				1	11	334	8
				1	12	345	11
				1	13	356	11
				1	14	363	7
				1	15	375	12
				1	16	394	19
				1	17	405	11
				1	18	408	3
				1	19	421	13
				1	20	436	15
				1	21	440	4
				1	22	448	8
				1	23	459	11
				1	24	462	3
				1	25	471	9
				1	26	484	13
				1	27	493	9
				1	28	500	7
				1	29	506	6
				1	30	512	6
				1	31	517	5
				1	32	519	2
				6	38	523	4

DCP w. In Situ CBR v1.1 (03/09/2018)

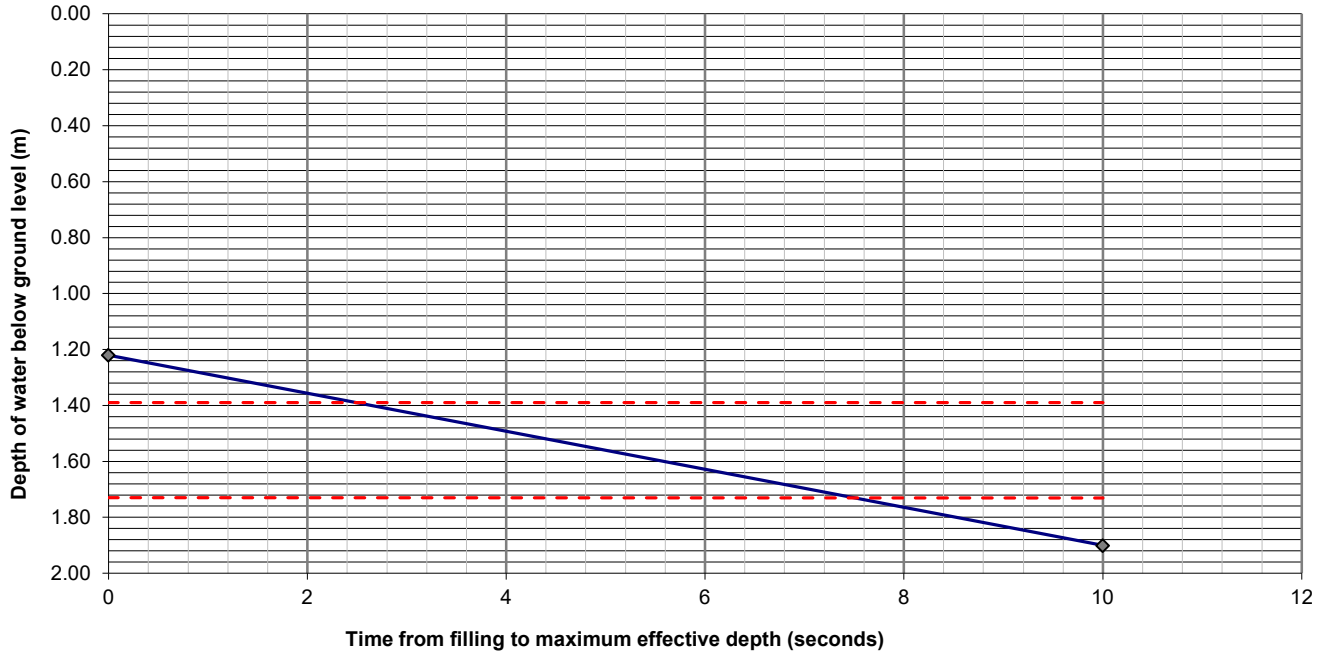
Client	784-B071864	Tetra Tech Ltd Longcross Court, Cardiff, CF24 0AD Tel: 029 2082 9200 Tt TETRA TECH					
Project No:	B071864						
Hole Number:	WS03						
Final Depth (m):	1.05						
Easting (x):	277068.27						
Northing (y):	190332.59	Start Depth (mm)	550	Zero Reading (mm)	135	Test Number	1
Elevation (m AOD):	13.78	Logged by:	Joe Bloggs				
Weather:	Overcast	Logged Date:	17/06/2025				



Depth Range Start (mm BGL)	Depth Range End (mm BGL)	Average penetration / blow (mm)	Average CBR value (%)	1	32	560	2
				1	33	561	1
				2	35	563	2
550	1046	8.73	30.588	1	36	566	3
				1	37	572	6
				1	38	574	2
				1	39	576	2
				1	40	580	4
				1	41	582	2
				1	42	584	2
				1	43	585	1
Checked by :		NEB	Complete	1	44	587	2
CBR values derived from DCP by Highways specification: Log10 (CBR) = 2.48 - 1.057				1	45	589	2

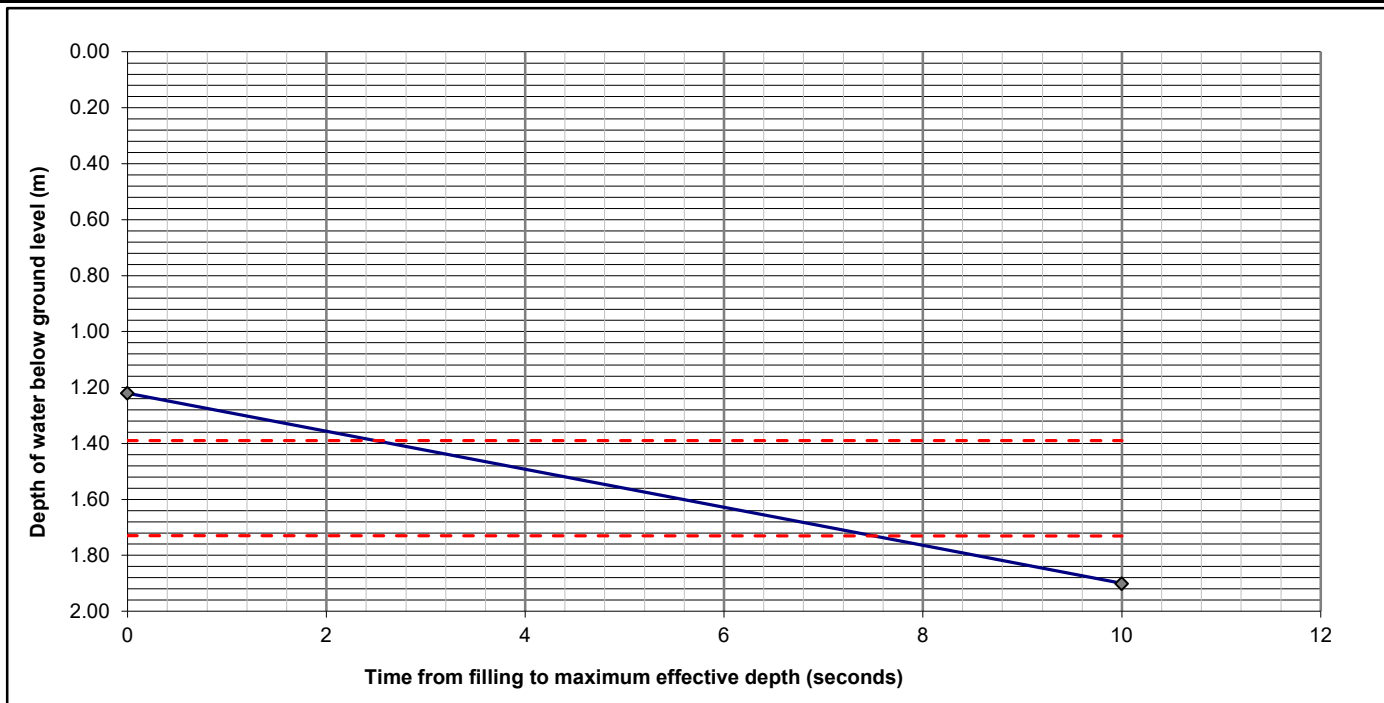
APPENDIX E: SOIL INFILTRATION TEST

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



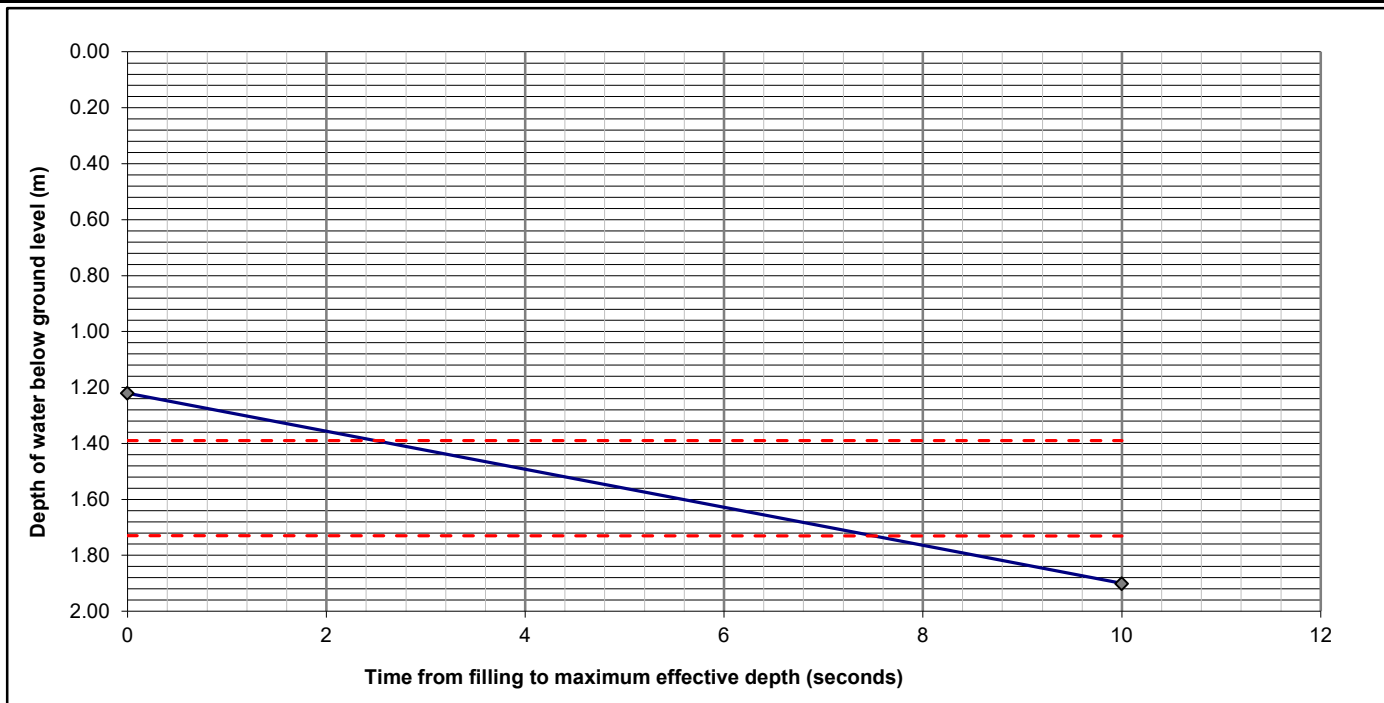
Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	PIT LENGTH (m):	1.50	Pit construction			
			PIT WIDTH (m):	0.60				
			PIT DEPTH (m):	1.90				
	0.00	1.220	INPUT PARAMETERS:					
10	0.10	1.900	Total volume of pit		(m ³)	0.61		
			Pit volume between 75% and 25% depths = L x W x ½D		(m ³)	0.31		
			Effective depth of Pit		(m)	0.68		
			Proportion of pit volume occupied by gravel solids		(0-1)	0.00		
			Maximum potential volume of Water		(m ³)	0.61		
			Level of water in pit at 75% effective depth (p ₇₅)		(m)	0.17		
			Level of water in pit at 25% effective depth (p ₂₅)		(m)	0.51		
			Effective volume between 75% & 25% depth V _{p75-25} = V x P _g		(m ³)	0.31		
			Surface area of pit up to 50% effective depth (A _{p50})		(m ²)	2.33		
			Time at 75% effective depth (p ₇₅)		(s)	3		
			Time at 25% effective depth (p ₂₅)		(s)	8		
			Time for outflow for 75% and 25% effective depth (Tp75-25)		(s)	5		
			OUTPUT:					
			SOIL INFILTRATION RATE (f)		V _{p75 - 25}	(m/s)	2.63E-02	
					A _{p50} X T _{p75 - 25}			
			WATER INPUT:		500 l		4	
			GEOLOGY OF TEST SECTION:					
			Dense sandy gravel with medium cobble content.					
			Compiled by:				RW	
			Checked by:				NEB	

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



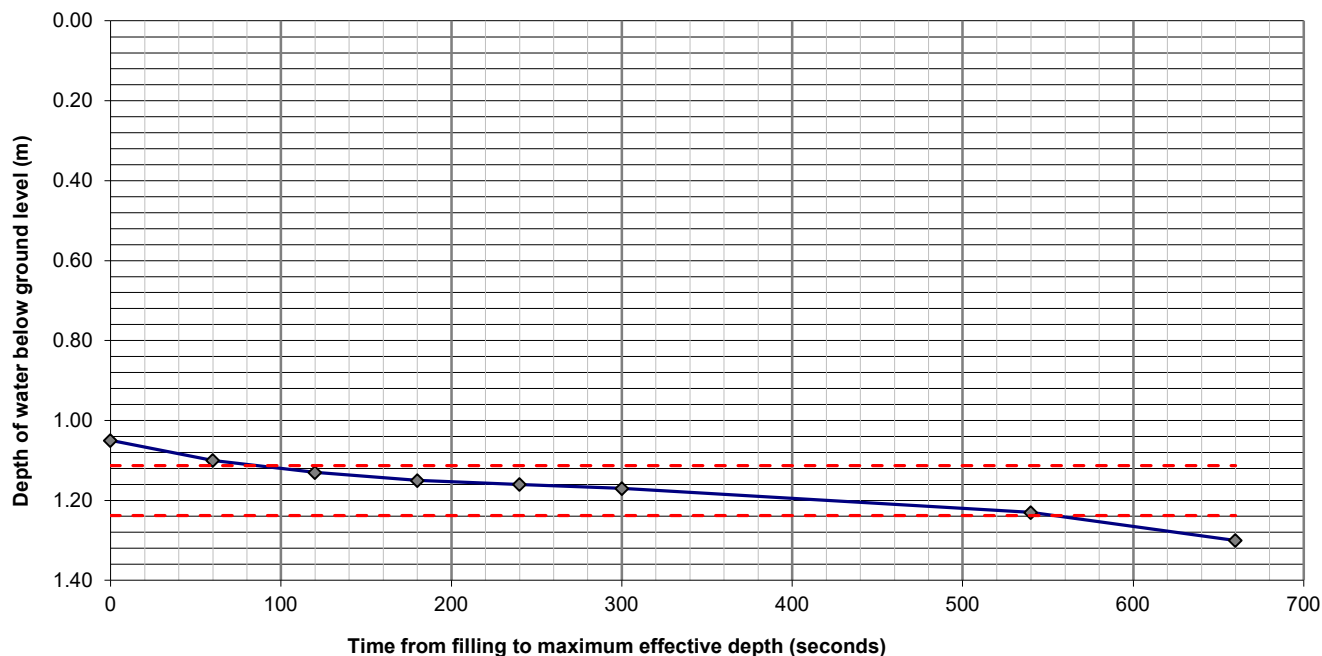
Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)				
			PIT LENGTH (m):	1.50	Pit construction	
			PIT WIDTH (m):	0.60		
			PIT DEPTH (m):	1.90		
			INPUT PARAMETERS:			
			Total volume of pit	(m ³)	0.61	
			Pit volume between 75% and 25% depths = L x W x ½D	(m ³)	0.31	
			Effective depth of Pit	(m)	0.68	
			Proportion of pit volume occupied by gravel solids	(0-1)	0.00	
			Maximum potential volume of Water	(m ³)	0.61	
			Level of water in pit at 75% effective depth (p ₇₅)	(m)	0.17	
			Level of water in pit at 25% effective depth (p ₂₅)	(m)	0.51	
			Effective volume between 75% & 25% depth V _{p75-25} = V x P _g	(m ³)	0.31	
			Surface area of pit up to 50% effective depth (A _{p50})	(m ²)	2.33	
			Time at 75% effective depth (p ₇₅)	(s)	3	
			Time at 25% effective depth (p ₂₅)	(s)	8	
			Time for outflow for 75% and 25% effective depth (Tp75-25)	(s)	5	
			OUTPUT:			
			SOIL INFILTRATION RATE (f)	V _{p75 - 25}	(m/s)	2.63E-02
				A _{p50} x T _{p75 - 25}		
			WATER INPUT: 500 l 4			
			GEOLOGY OF TEST SECTION:			
			Dense sandy gravel with medium cobble content.			
			Compiled by:		RW	
			Checked by:		NEB	

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



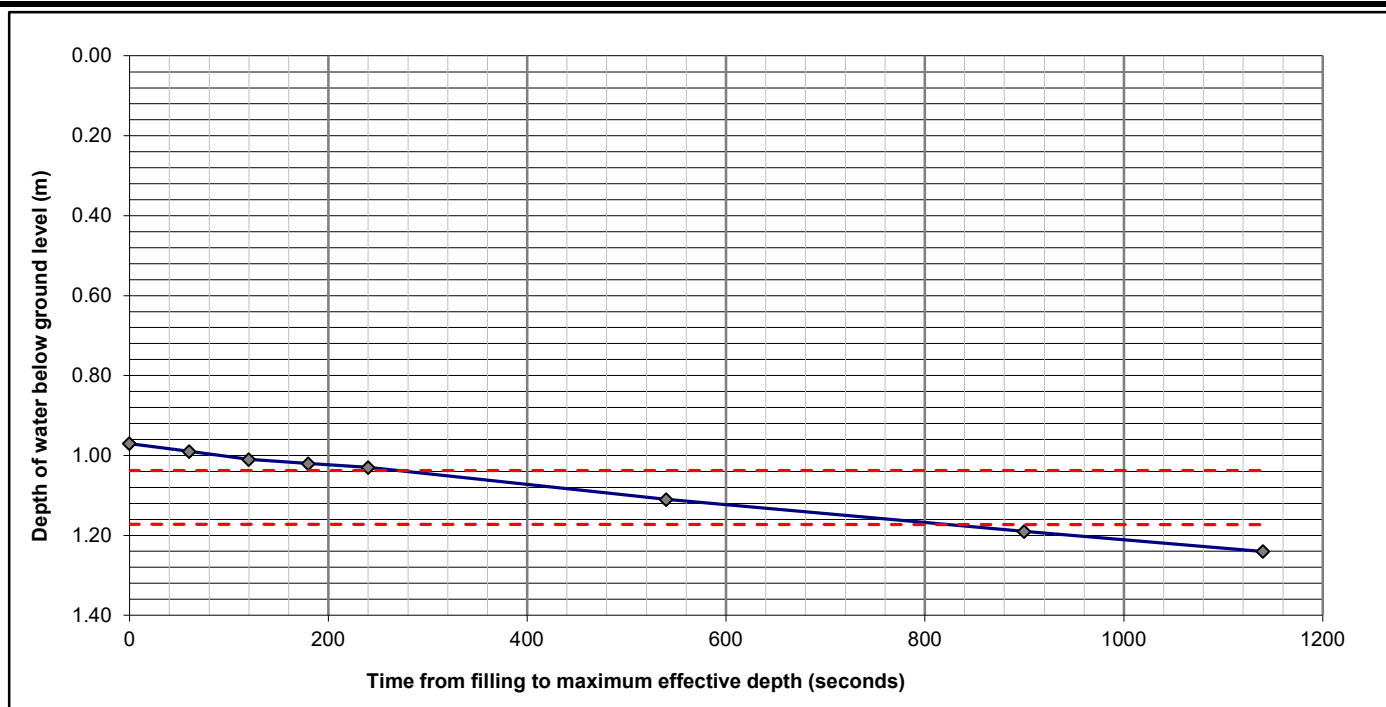
Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	PIT LENGTH (m):	1.50	Pit construction			
			PIT WIDTH (m):	0.60				
			PIT DEPTH (m):	1.90				
			INPUT PARAMETERS:					
			Total volume of pit		(m ³)	0.61		
			Pit volume between 75% and 25% depths = L x W x ½D		(m ³)	0.31		
			Effective depth of Pit		(m)	0.68		
			Proportion of pit volume occupied by gravel solids		(0-1)	0.00		
			Maximum potential volume of Water		(m ³)	0.61		
			Level of water in pit at 75% effective depth (p ₇₅)		(m)	0.17		
			Level of water in pit at 25% effective depth (p ₂₅)		(m)	0.51		
			Effective volume between 75% & 25% depth V _{p75-25} = V x P _g		(m ³)	0.31		
			Surface area of pit up to 50% effective depth (A _{p50})		(m ²)	2.33		
			Time at 75% effective depth (p ₇₅)		(s)	3		
			Time at 25% effective depth (p ₂₅)		(s)	8		
			Time for outflow for 75% and 25% effective depth (Tp75-25)		(s)	5		
			OUTPUT:					
			SOIL INFILTRATION RATE (f)		V _{p75 - 25}	(m/s)	2.63E-02	
					A _{p50} x T _{p75 - 25}			
			WATER INPUT:		500	l	4	
			GEOLOGY OF TEST SECTION:					
			Dense sandy gravel with medium cobble content.					

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



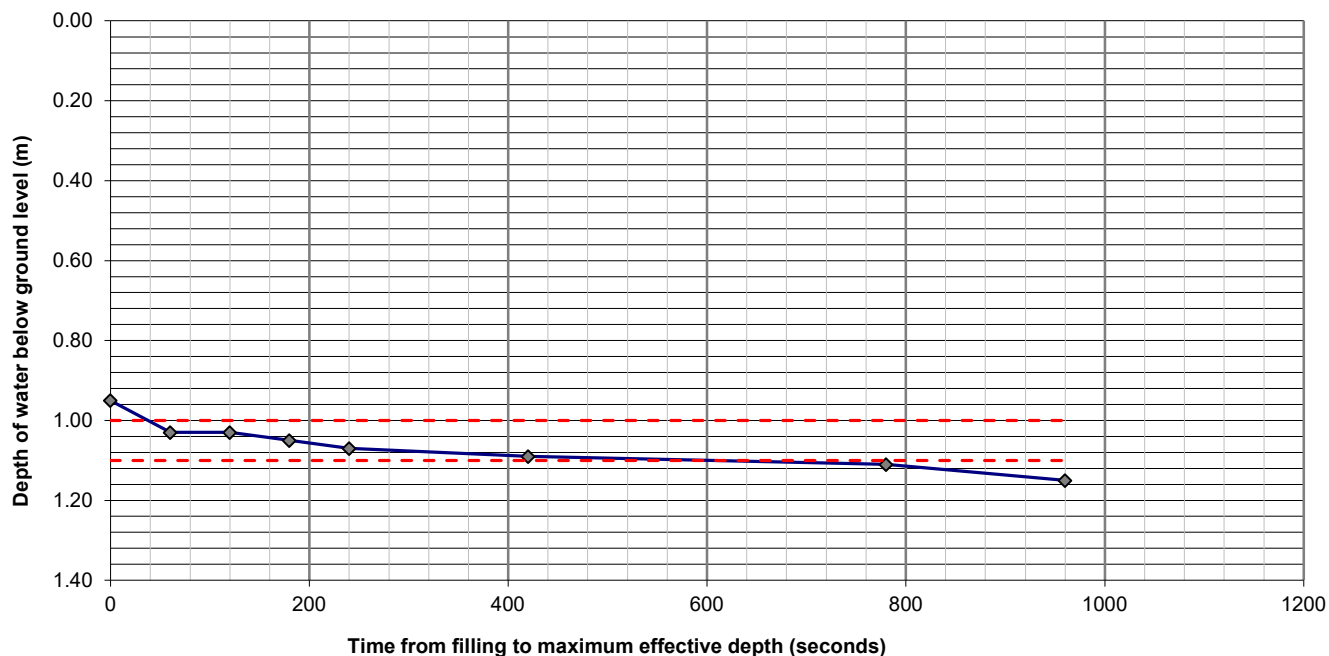
Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	<table><tr><td>PIT LENGTH (m):</td><td>1.50</td><td colspan="2" rowspan="3">Pit construction</td></tr><tr><td>PIT WIDTH (m):</td><td>0.60</td></tr><tr><td>PIT DEPTH (m):</td><td>1.30</td></tr></table>			PIT LENGTH (m):	1.50	Pit construction		PIT WIDTH (m):	0.60	PIT DEPTH (m):	1.30
PIT LENGTH (m):	1.50	Pit construction											
PIT WIDTH (m):	0.60												
PIT DEPTH (m):	1.30												
	0.00	1.050	INPUT PARAMETERS:										
60	1.00	1.100	Total volume of pit		(m ³)	0.23							
120	2.00	1.130	Pit volume between 75% and 25% depths = L x W x ½D		(m ³)	0.11							
180	3.00	1.150	Effective depth of Pit		(m)	0.25							
240	4.00	1.160	Proportion of pit volume occupied by gravel solids		(0-1)	0.00							
300	5.00	1.170	Maximum potential volume of Water		(m ³)	0.23							
540	9.00	1.230	Level of water in pit at 75% effective depth (p ₇₅)		(m)	0.06							
660	11.00	1.300	Level of water in pit at 25% effective depth (p ₂₅)		(m)	0.19							
			Effective volume between 75% & 25% depth V _{p75-25} = V x P _g		(m ³)	0.11							
			Surface area of pit up to 50% effective depth (A _{p50})		(m ²)	1.43							
			Time at 75% effective depth (p ₇₅)		(s)	85							
			Time at 25% effective depth (p ₂₅)		(s)	553							
			Time for outflow for 75% and 25% effective depth (Tp75-25)		(s)	468							
			OUTPUT:										
			SOIL INFILTRATION RATE (f)	V _{p75 - 25}	(m/s)	1.69E-04							
				A _{p50} x T _{p75 - 25}									
			WATER INPUT:		300 l	2							
			GEOLOGY OF TEST SECTION:										
			Dense sandy gravel with medium cobble content.										

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION

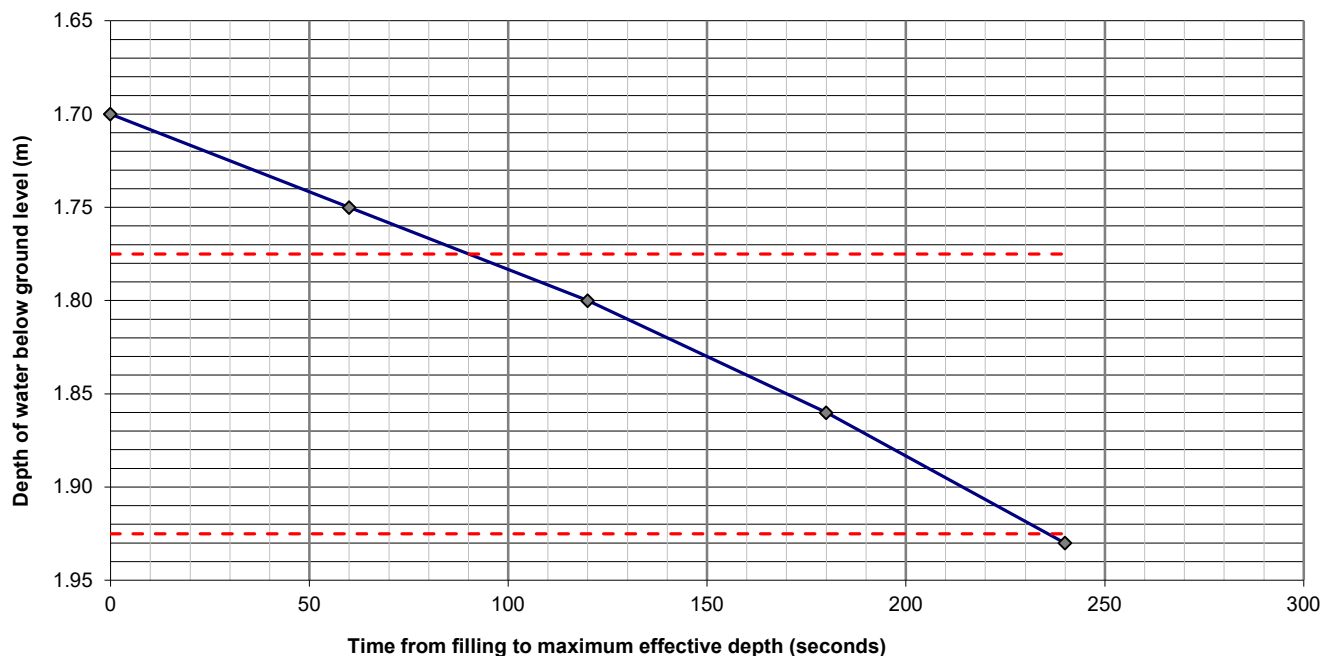


Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	PIT LENGTH (m):		1.50	Pit construction	
			PIT WIDTH (m):		0.60		
			PIT DEPTH (m):		1.24		
	0.00	0.970	INPUT PARAMETERS:				
60	1.00	0.990	Total volume of pit		(m ³)	0.24	
120	2.00	1.010	Pit volume between 75% and 25% depths = L x W x ½D		(m ³)	0.12	
180	3.00	1.020	Effective depth of Pit		(m)	0.27	
240	4.00	1.030	Proportion of pit volume occupied by gravel solids		(0-1)	0.00	
540	9.00	1.110	Maximum potential volume of Water		(m ³)	0.24	
900	15.00	1.190	Level of water in pit at 75% effective depth (p ₇₅)		(m)	0.07	
1140	19.00	1.240	Level of water in pit at 25% effective depth (p ₂₅)		(m)	0.20	
			Effective volume between 75% & 25% depth V _{p75-25} = V x P _g		(m ³)	0.12	
			Surface area of pit up to 50% effective depth (A _{p50})		(m ²)	1.47	
			Time at 75% effective depth (p ₇₅)		(s)	268	
			Time at 25% effective depth (p ₂₅)		(s)	822	
			Time for outflow for 75% and 25% effective depth (Tp75-25)		(s)	553	
			OUTPUT:				
			SOIL INFILTRATION RATE (f)		V _{p75 - 25}	(m/s)	1.50E-04
					A _{p50} x T _{p75 - 25}		
			WATER INPUT:		300	l	2
			GEOLOGY OF TEST SECTION:				
			Dense sandy gravel with medium cobble content.				

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION

[illegible]

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



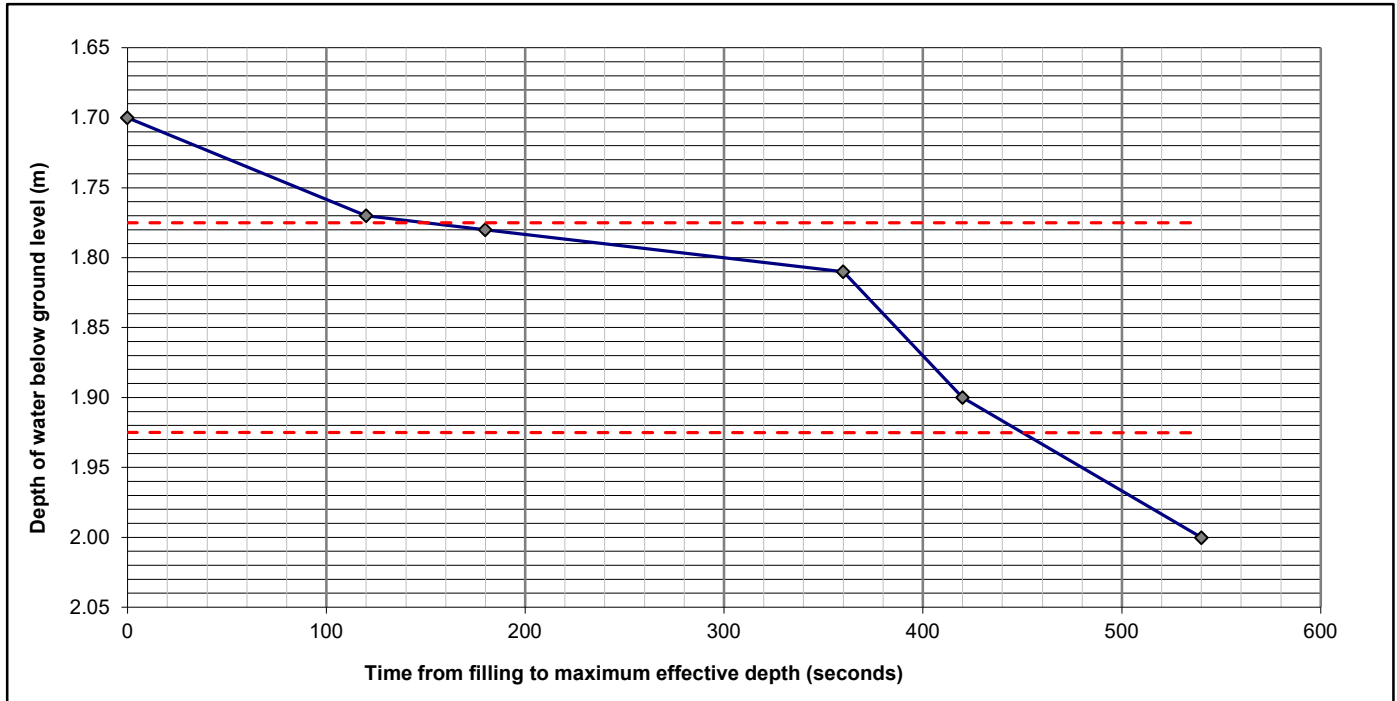
Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	PIT LENGTH (m):1.40 PIT WIDTH (m):0.60 PIT DEPTH (m):2.00 Pit construction		
	0.00	1.700	INPUT PARAMETERS:		
60	1.00	1.750	Total volume of pit(m³)0.25		
120	2.00	1.800	Pit volume between 75% and 25% depths = L x W x ½D(m³)0.13		
180	3.00	1.860	Effective depth of Pit(m)0.30		
240	4.00	1.930	Proportion of pit volume occupied by gravel solids(0-1)0.00		
			Maximum potential volume of Water(m³)0.25		
			Level of water in pit at 75% effective depth (p₇₅)(m)0.08		
			Level of water in pit at 25% effective depth (p₂₅)(m)0.23		
			Effective volume between 75% & 25% depth V_{p75-25} = V x P_g(m³)0.13		
			Surface area of pit up to 50% effective depth (A_{p50})(m²)1.44		
			Time at 75% effective depth (p₇₅)(s)90		
			Time at 25% effective depth (p₂₅)(s)236		
			Time for outflow for 75% and 25% effective depth (Tp75-25)(s)146		
			OUTPUT:		
			SOIL INFILTRATION RATE (f) V_{p75 - 25} A_{p50} x T_{p75 - 25} (m/s) 6.00E-04		
			WATER INPUT:300l2		
			GEOLOGY OF TEST SECTION:		
			Dense sandy gravel with medium cobble content.		
			Compiled by:RW		
			Checked by:NEB		

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	PIT LENGTH (m):		Pit construction			
			PIT WIDTH (m):					
			PIT DEPTH (m):					
	0.00	1.750	INPUT PARAMETERS:					
60	1.00	1.790	Total volume of pit		(m ³)	0.21		
180	3.00	1.830	Pit volume between 75% and 25% depths = L x W x ½D		(m ³)	0.11		
240	4.00	1.860	Effective depth of Pit		(m)	0.25		
300	5.00	1.930	Proportion of pit volume occupied by gravel solids		(0-1)	0.00		
330	5.50	1.940	Maximum potential volume of Water		(m ³)	0.21		
			Level of water in pit at 75% effective depth (p ₇₅)		(m)	0.06		
			Level of water in pit at 25% effective depth (p ₂₅)		(m)	0.19		
			Effective volume between 75% & 25% depth V _{p75-25} = V x P _g		(m ³)	0.11		
			Surface area of pit up to 50% effective depth (A _{p50})		(m ²)	1.34		
			Time at 75% effective depth (p ₇₅)		(s)	128		
			Time at 25% effective depth (p ₂₅)		(s)	323		
			Time for outflow for 75% and 25% effective depth (Tp75-25)		(s)	195		
			OUTPUT:					
			SOIL INFILTRATION RATE (f)		V _{p75 - 25}	(m/s)	4.02E-04	
					A _{p50} x T _{p75 - 25}			
			WATER INPUT: 300 l 2					
			GEOLOGY OF TEST SECTION:					
			Dense sandy gravel with medium cobble content.					
			Compiled by: RW					
			Checked by: NEB					

SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY CALCULATION



Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	PIT LENGTH (m):		Pit construction	
			PIT WIDTH (m):	0.60		
			PIT DEPTH (m):	2.00		
	0.00	1.700	INPUT PARAMETERS:			
120	2.00	1.770	Total volume of pit		(m ³)	0.25
180	3.00	1.780	Pit volume between 75% and 25% depths = L x W x ½D		(m ³)	0.13
360	6.00	1.810	Effective depth of Pit		(m)	0.30
420	7.00	1.900	Proportion of pit volume occupied by gravel solids		(0-1)	0.00
540	9.00	2.000	Maximum potential volume of Water		(m ³)	0.25
			Level of water in pit at 75% effective depth (p ₇₅)		(m)	0.08
			Level of water in pit at 25% effective depth (p ₂₅)		(m)	0.23
			Effective volume between 75% & 25% depth V _{p75-25} = V x P _g		(m ³)	0.13
			Surface area of pit up to 50% effective depth (A _{p50})		(m ²)	1.44
			Time at 75% effective depth (p ₇₅)		(s)	150
			Time at 25% effective depth (p ₂₅)		(s)	450
			Time for outflow for 75% and 25% effective depth (Tp75-25)		(s)	300
			OUTPUT:			
			SOIL INFILTRATION RATE (f)	V _{p75 - 25}	(m/s)	2.92E-04
				A _{p50} X T _{p75 - 25}		
			WATER INPUT:		300 l 2	
			GEOLOGY OF TEST SECTION:			
			Dense sandy gravel with medium cobble content.			
			Compiled by: RW			
			Checked by: NEB			

APPENDIX F: GEOTECHNICAL TEST DATA



Laboratory Report



Contract Number: 79439

Client Ref: **784-B071864**

Client PO:

Date Received: **25-06-2025**

Date Completed: **11-07-2025**

Report Date: **11-07-2025**

Client: **Tetra Tech**

This report has been checked and approved by:

Contract Title: **ELRS Port Talbot**

For the attention of: **Paul Vincent**

Brendan Evans
Senior Office Administrator

Description	Qty
Determination of water content BS EN ISO 17892-1:2014 - @ Non Accredited Test	3
4 Point Liquid & Plastic Limit.. BS EN ISO 17892-12 - * UKAS	3
Particle Size Distribution BS EN ISO 17892-4 : 5.1 - * UKAS	10
Sedimentation by Pipette Method BS EN ISO 17892-4 : 5.4 - @ Non Accredited Test	1
BRE Suite D Brownfield Site (pyrite present) includes pH, water & acid soluble sulphate, total sulphur, magnesium, chloride and nitrate Sub-contracted Test#	5

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

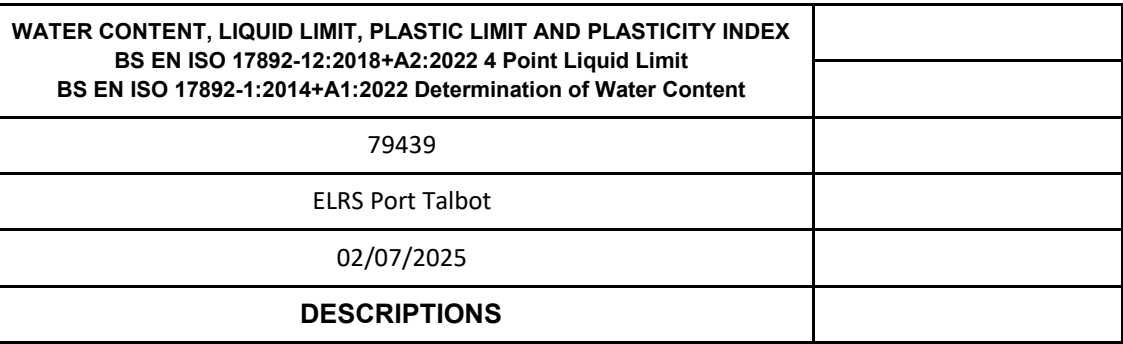
This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This test report/certificate shall not be reproduced except in full, without the approval of GEO 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
Aaron. H