

**Site Details:**

STREET RECORD, ACCESS  
 REAR OF 1-3 AND NURSING  
 HOME ON TRANSVAAL  
 TERRACE, BATLEY, WF17 0AA

**Client Ref:** C316  
**Report Ref:** GS-5915063  
**Grid Ref:** 423686, 425138

**Map Name:** County Series

**Map date:** 1938

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1850	Surveyed 1850
Revised 1938	Revised 1938
Edition N/A	Edition 1938
Copyright N/A	Copyright N/A
Levelled N/A	Levelled 1932

Surveyed 1851	Surveyed 1851
Revised 1930	Revised 1938
Edition N/A	Edition N/A
Copyright N/A	Copyright N/A
Levelled 1931	Levelled 1931

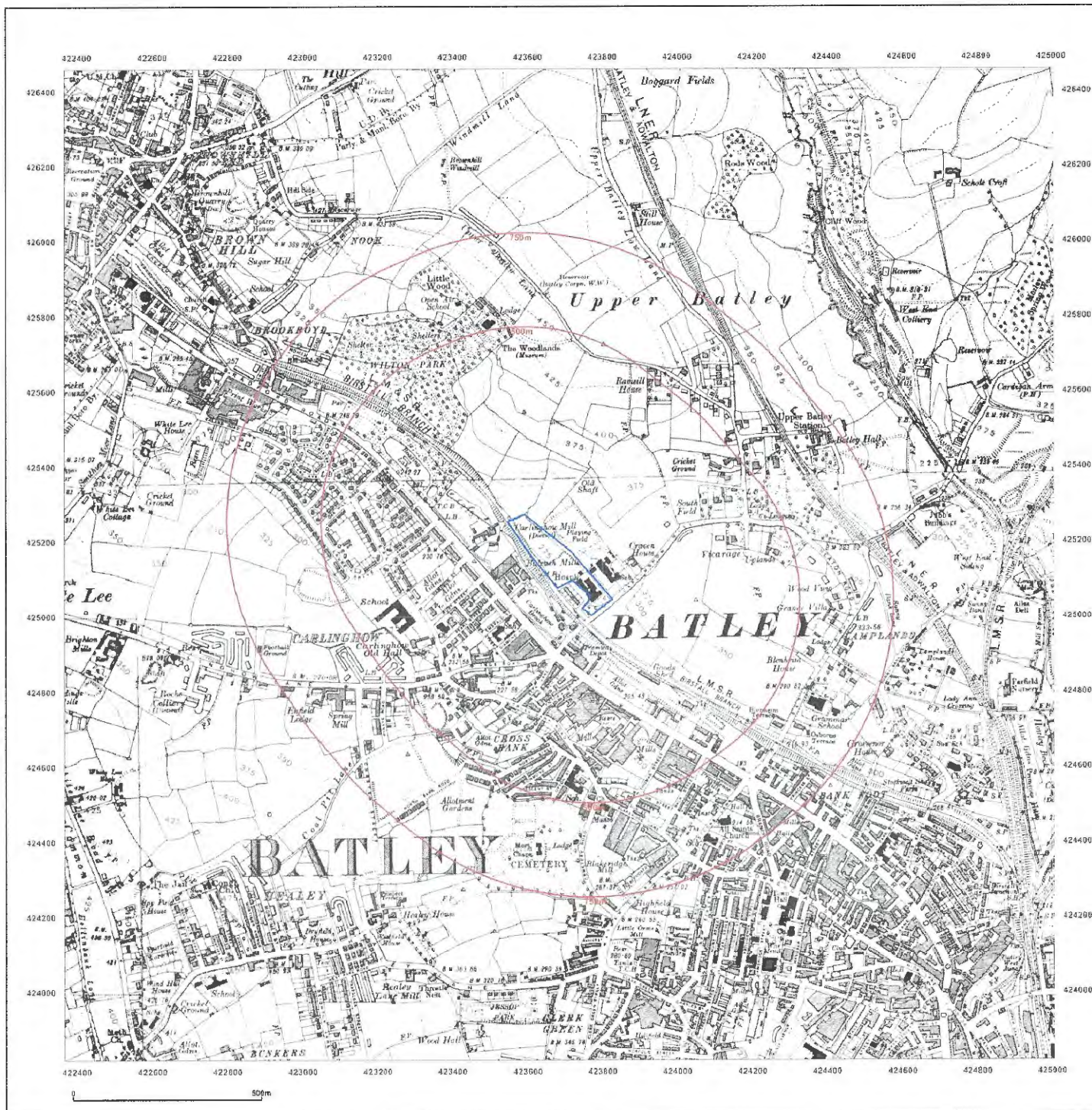


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Client Ref: C316  
 Report Ref: GS-5915063  
 Grid Ref: 423686, 425138

Map Name: County Series

Map date: 1948

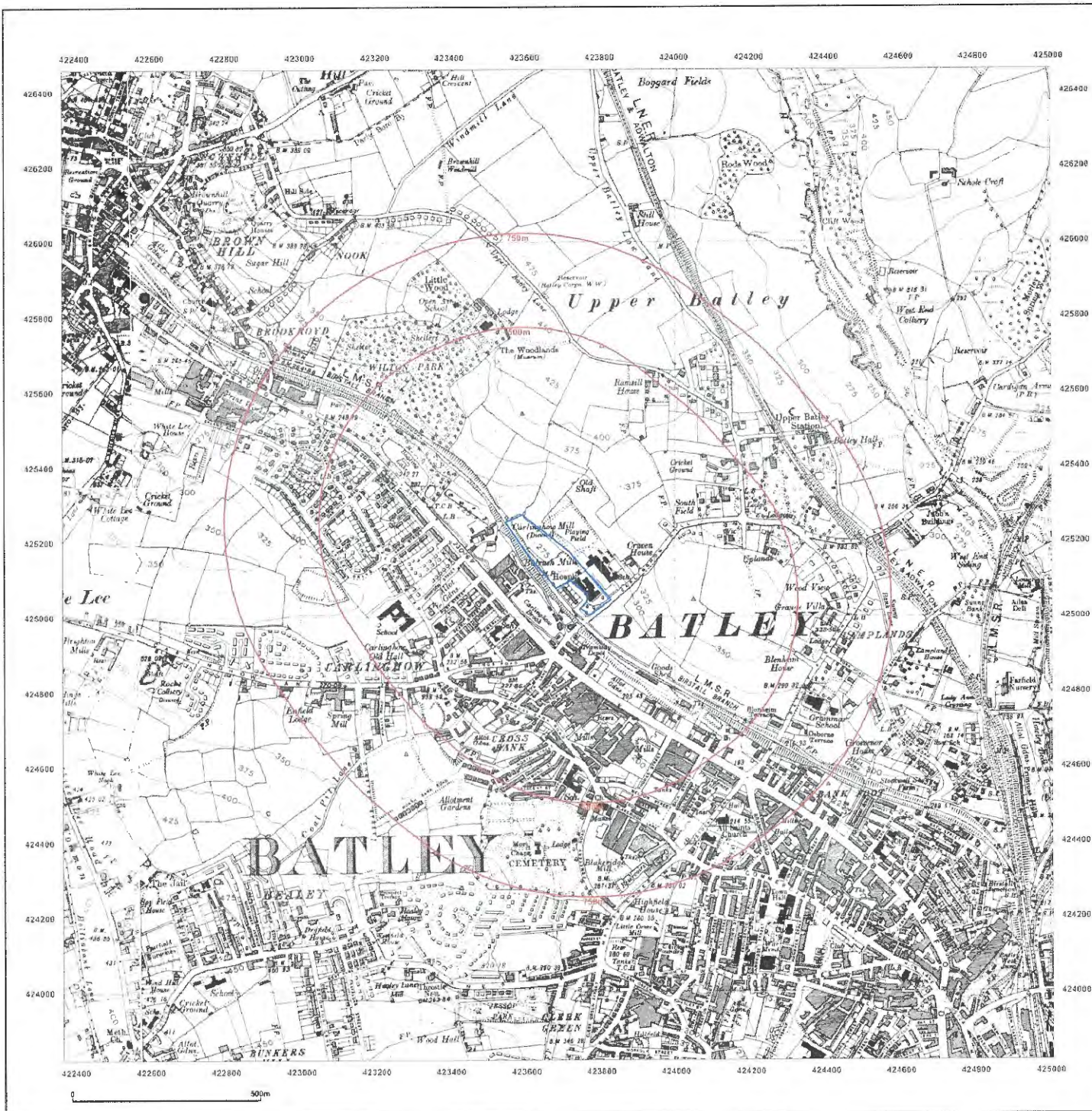
Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1850	Surveyed 1850
Revised 1948	Revised 1948
Edition N/A	Edition 1948
Copyright N/A	Copyright N/A
Levelled 1931	Levelled 1929

Surveyed 1851	Surveyed 1851
Revised 1948	Revised 1948
Edition N/A	Edition N/A
Copyright N/A	Copyright N/A
Levelled N/A	Levelled 1931



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 TERRACE, BATLEY, WF17 0AA

**Client Ref:** C316  
**Report Ref:** GS-5915063  
**Grid Ref:** 423686, 425138

**Map Name:** National Grid

**Map date:** 1955

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed 1955 Revised 1955 Edition N/A Copyright N/A Levelled 1931	Surveyed 1955 Revised 1955 Edition N/A Copyright N/A Levelled 1931
Surveyed 1955 Revised 1955 Edition N/A Copyright N/A Levelled 1931	Surveyed 1955 Revised 1955 Edition N/A Copyright N/A Levelled 1931



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**Site Details:**

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 REAR OF 1-3 AND NURSING  
 HOME ON TRANSVAAL  
 TERRACE, BATLEY, WF17 0AA

**Client Ref:** C316  
**Report Ref:** GS-5915063  
**Grid Ref:** 423686, 425138

**Map Name:** National Grid

**Map date:** 1955

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1955  
 Revised 1955  
 Edition N/A  
 Copyright 1956  
 Levelled 1931

Surveyed 1955  
 Revised 1955  
 Edition 1956  
 Copyright N/A  
 Levelled 1931

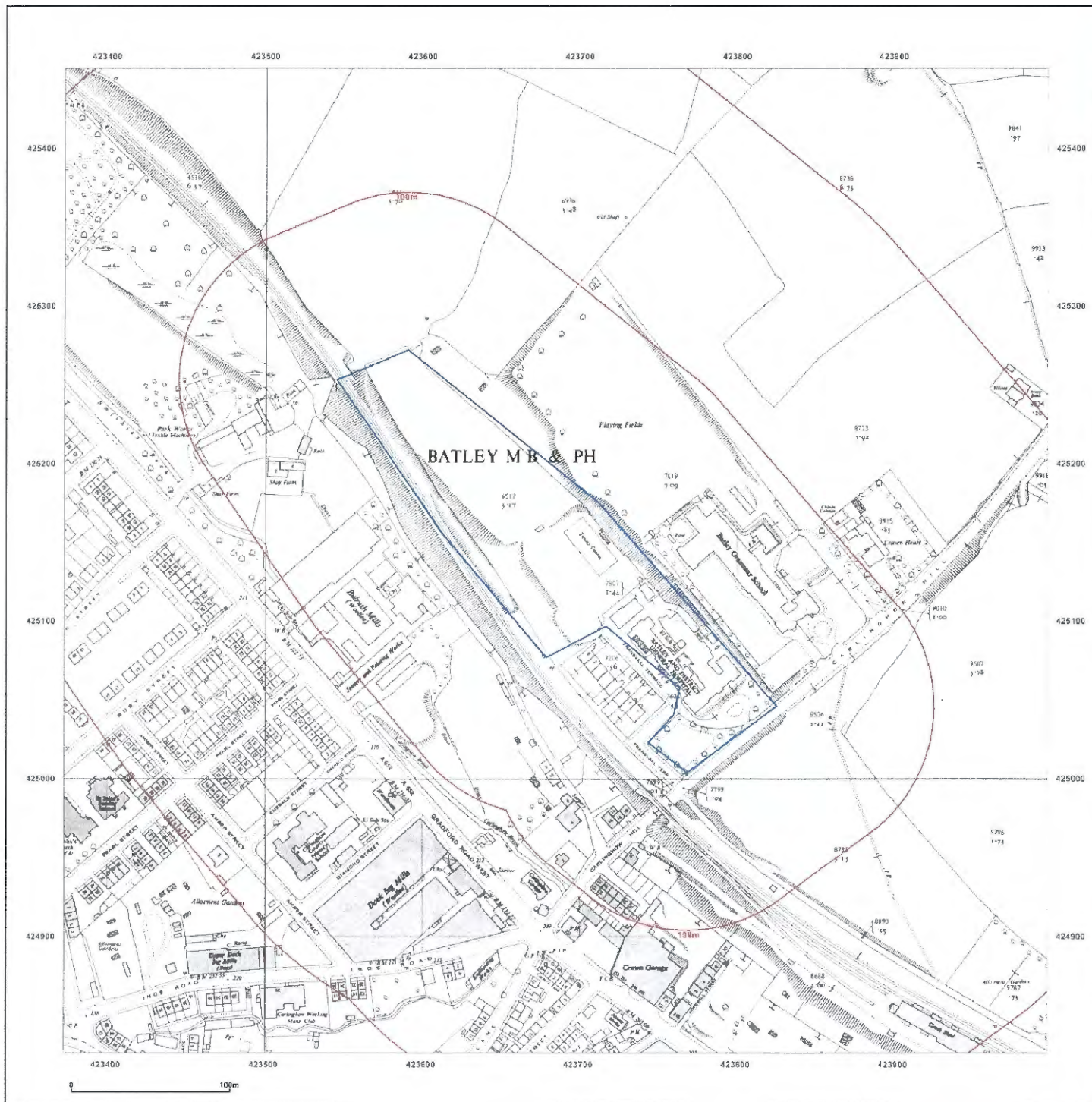


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**Site Details:**

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 TERRACE, BATLEY, WF17 0AA

Client Ref: C316  
 Report Ref: GS-5915063  
 Grid Ref: 423686, 425138

Map Name: Provisional  
 Map date: 1955-1957  
 Scale: 1:10,560  
 Printed at: 1:10,560



<p>Surveyed 1951          Revised 1951          Edition N/A          Copyright 1955          Levelled N/A</p>	<p>Surveyed 1957          Revised 1957          Edition N/A          Copyright 1957          Levelled N/A</p>
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<p>Surveyed 1951          Revised 1955          Edition N/A          Copyright N/A          Levelled N/A</p>	<p>Surveyed 1957          Revised 1957          Edition N/A          Copyright N/A          Levelled N/A</p>
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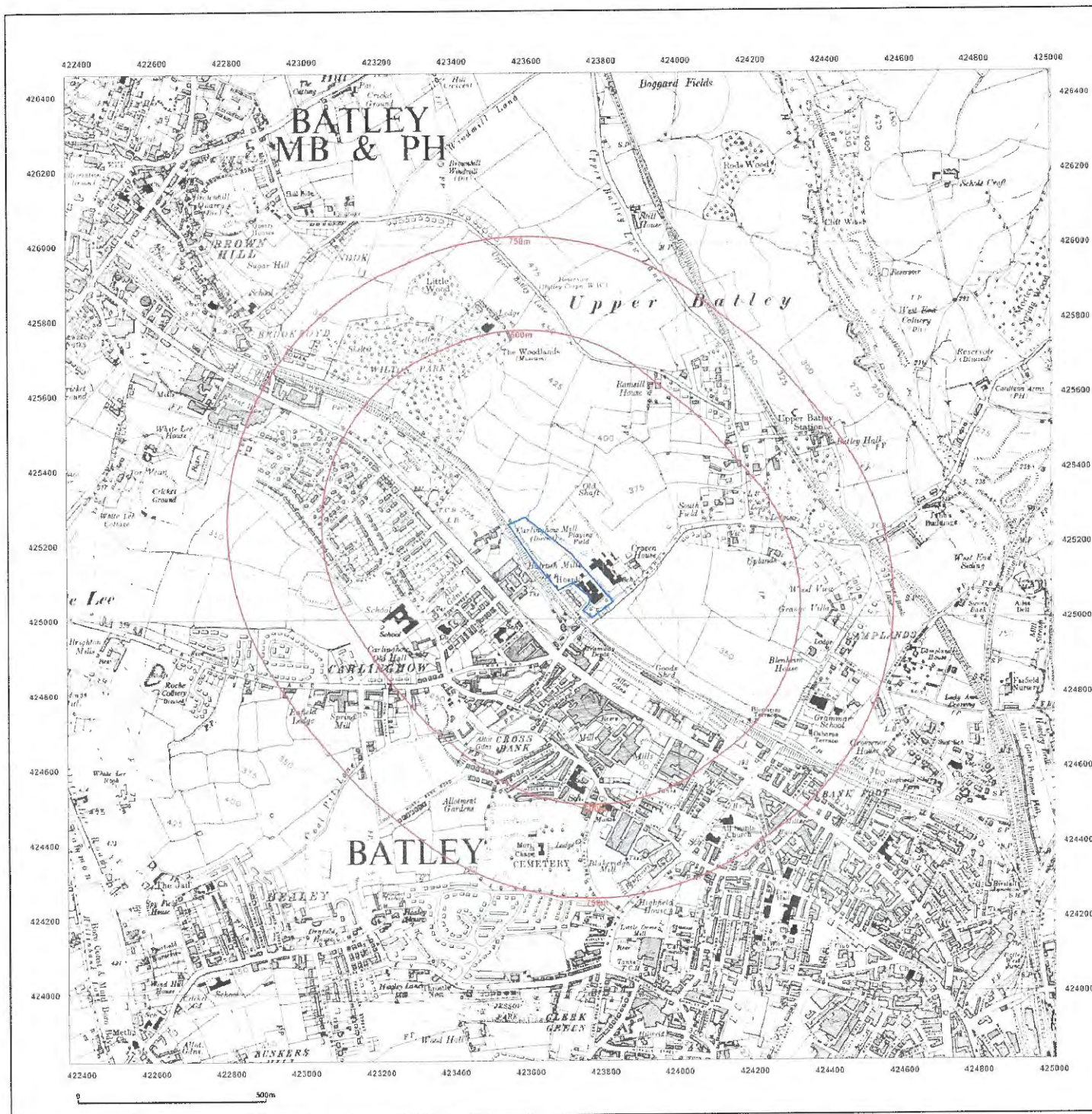


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 TERRACE, BATLEY, WF17 0AA

Client Ref: C316  
 Report Ref: GS-5915063  
 Grid Ref: 423686, 425138

Map Name: National Grid

Map date: 1956

Scale: 1:1,250

Printed at: 1:2,000



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

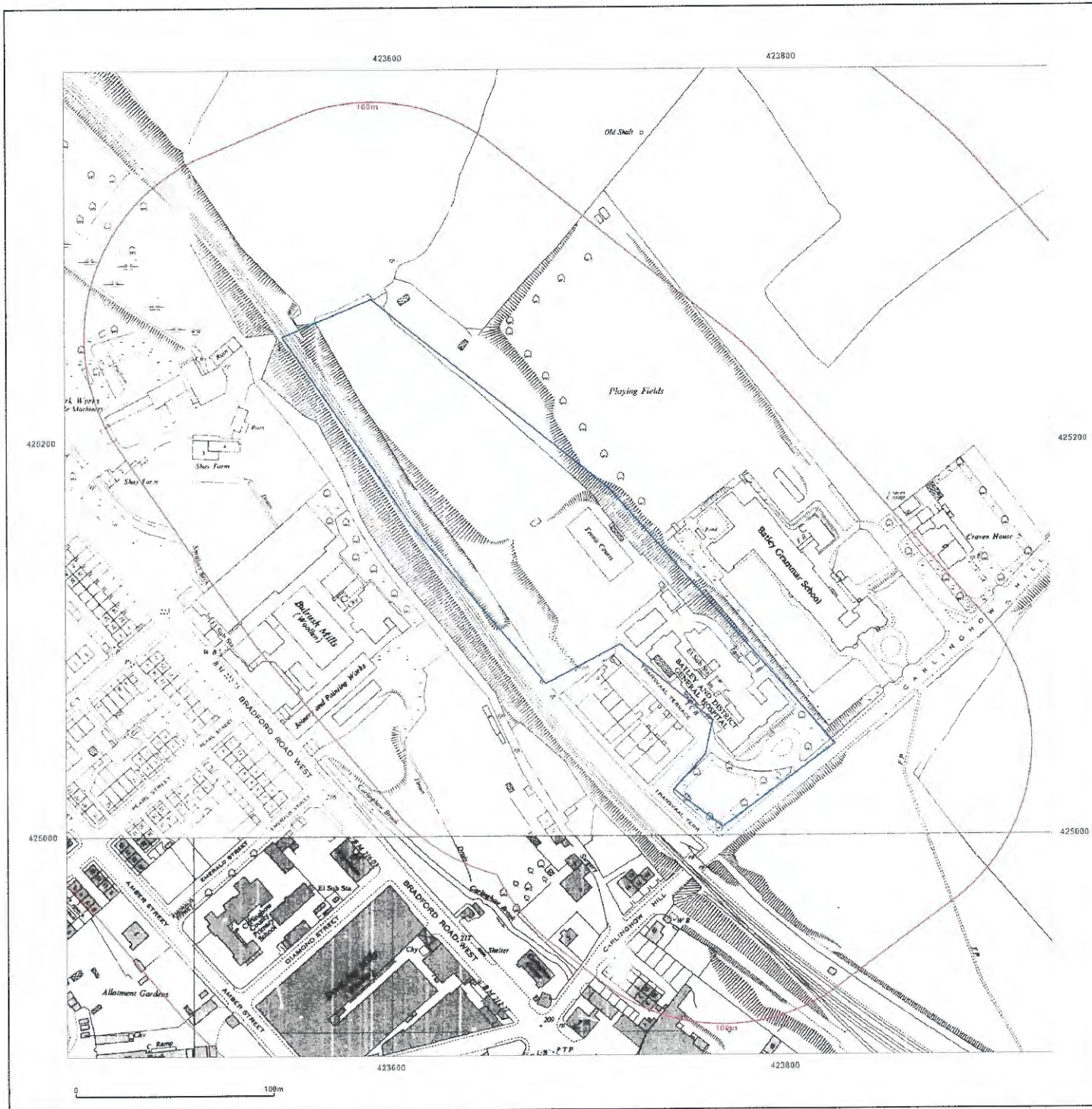


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**Site Details:**

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**Client Ref:** C316  
**Report Ref:** GS-5915063  
**Grid Ref:** 423686, 425138

**Map Name:** Provisional

**Map date:** 1966-1967

**Scale:** 1:10,560

**Printed at:** 1:10,560



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

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

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

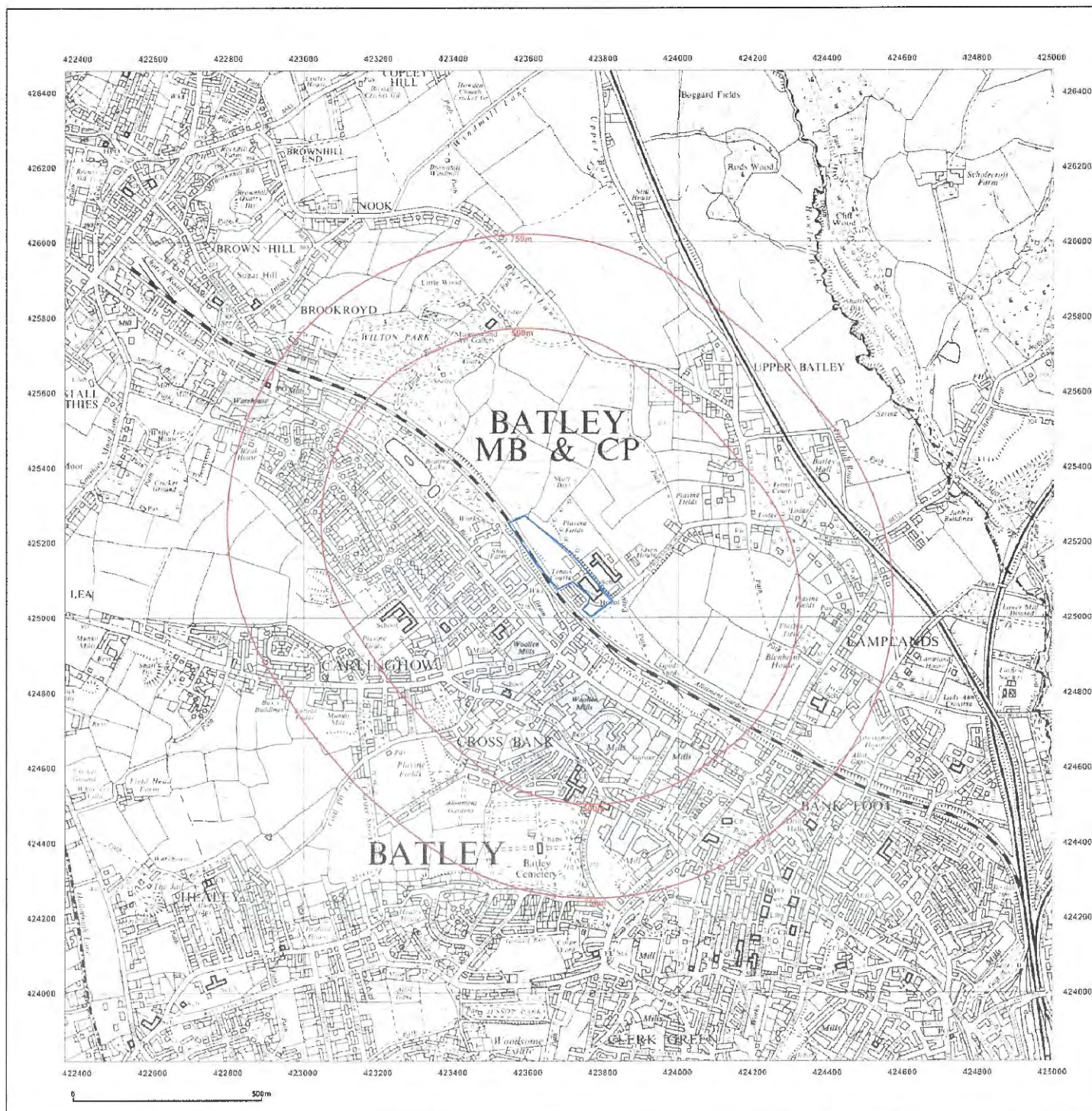


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Client Ref: C316  
 Report Ref: GS-5915063  
 Grid Ref: 423686, 425138

Map Name: National Grid

Map date: 1974

Scale: 1:10,000

Printed at: 1:10,000



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

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

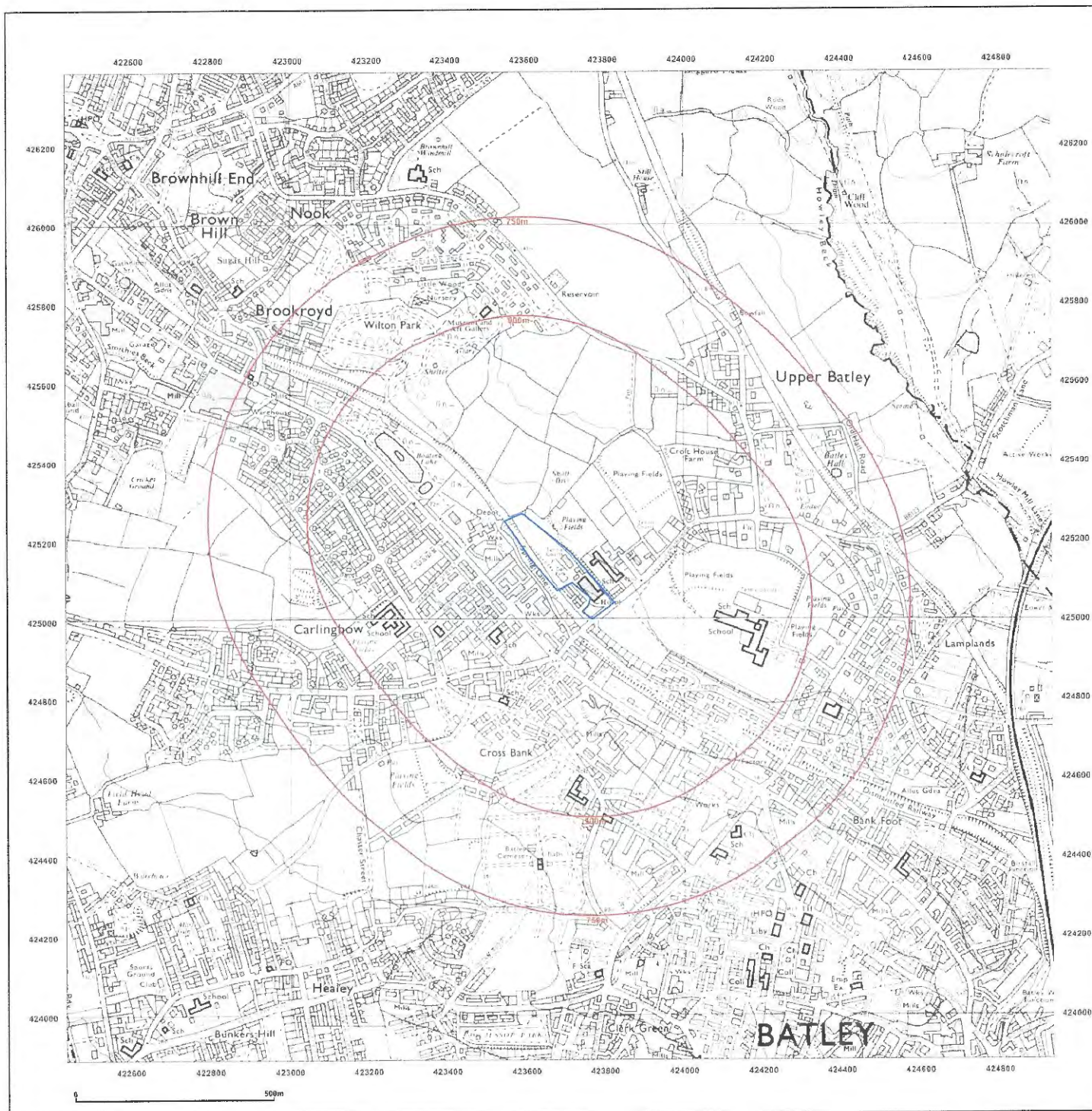


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**Client Ref:** C316  
**Report Ref:** GS-5915063  
**Grid Ref:** 423686, 425138

**Map Name:** National Grid

**Map date:** 1981-1985

**Scale:** 1:10,000

**Printed at:** 1:10,000



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

Surveyed 1977  
 Revised 1981  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

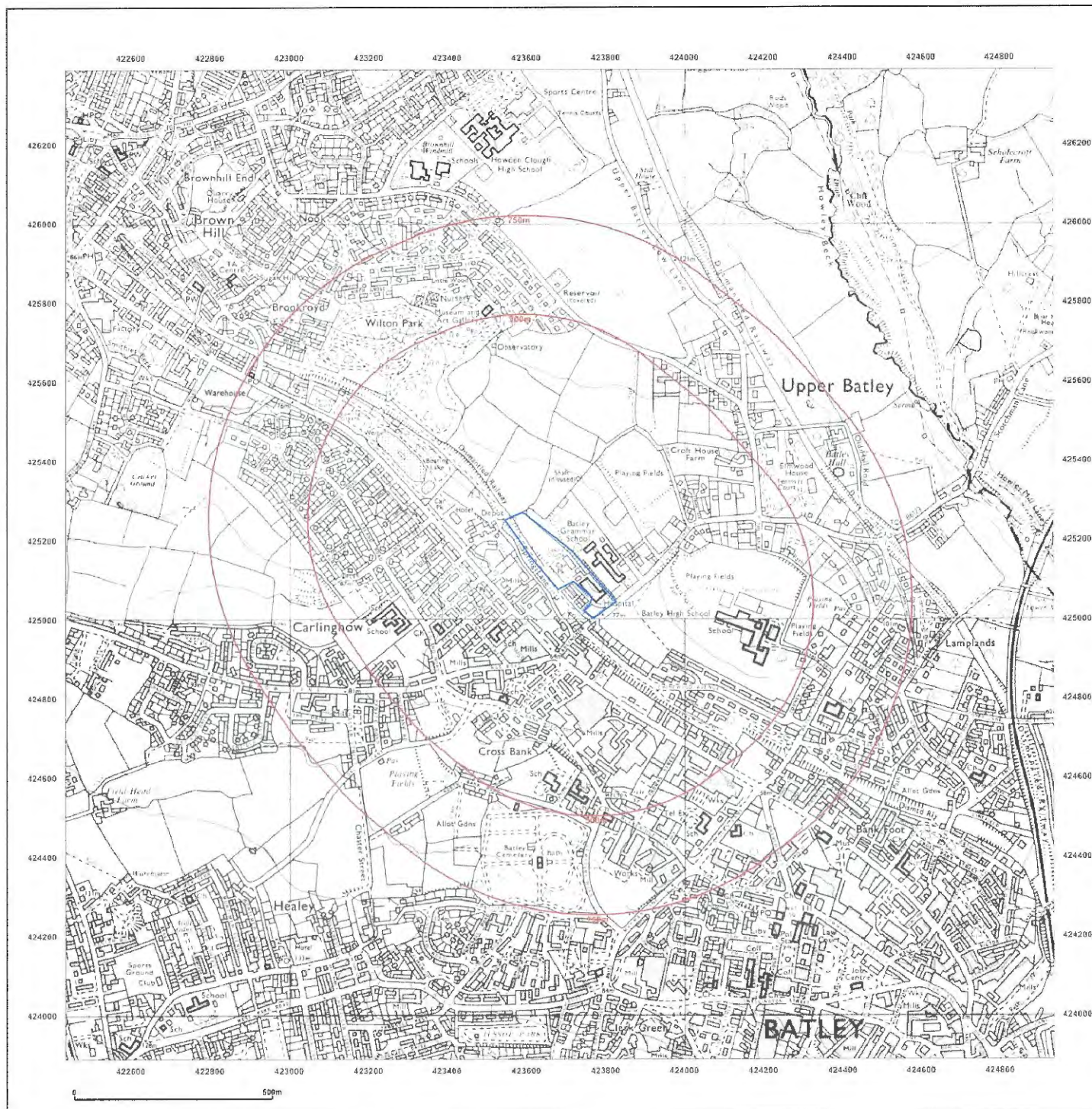


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Client Ref: C316  
 Report Ref: GS-5915063  
 Grid Ref: 423686, 425138

Map Name: National Grid

Map date: 1989-1993

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 1962 Revised 1989 Edition N/A Copyright 1989 Levelled 1962	Surveyed 1991 Revised 1991 Edition N/A Copyright 1991 Levelled N/A



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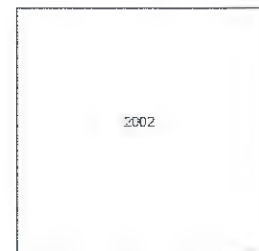
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**Map Name:** 1:10,000 Raster

**Map date:** 2002

**Scale:** 1:10,000

**Printed at:** 1:10,000

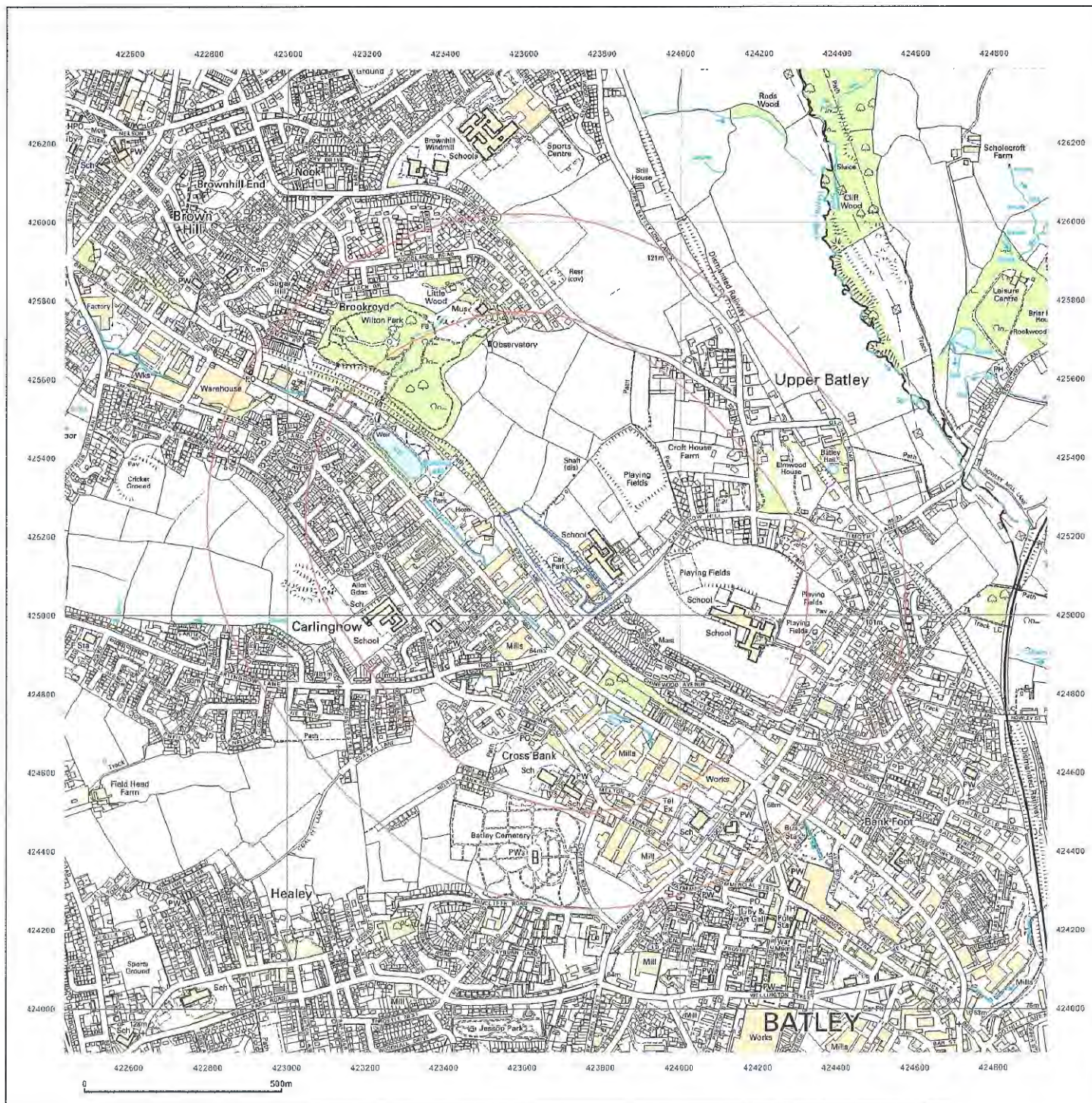


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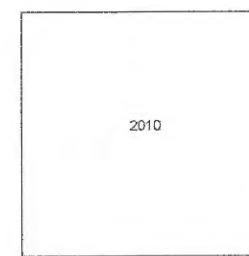
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**Grid Ref:** 423686, 425138

**Map Name:** National Grid

**Map date:** 2010

**Scale:** 1:10,000

**Printed at:** 1:10,000

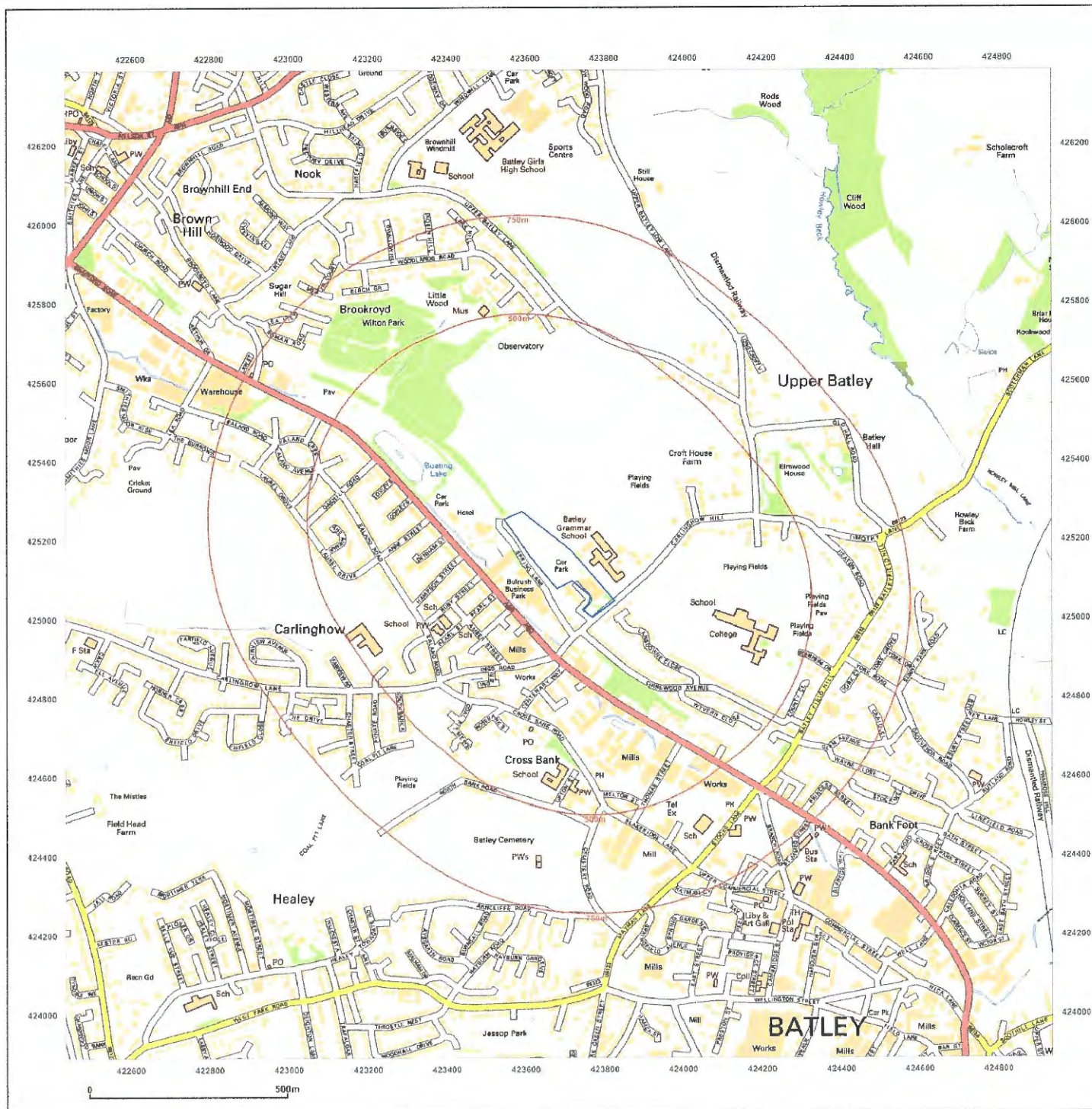


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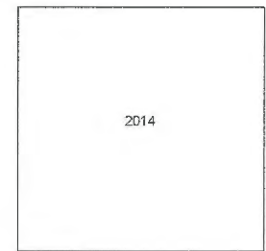
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**Grid Ref:** 423686, 425138

**Map Name:** National Grid

**Map date:** 2014

**Scale:** 1:10,000

**Printed at:** 1:10,000

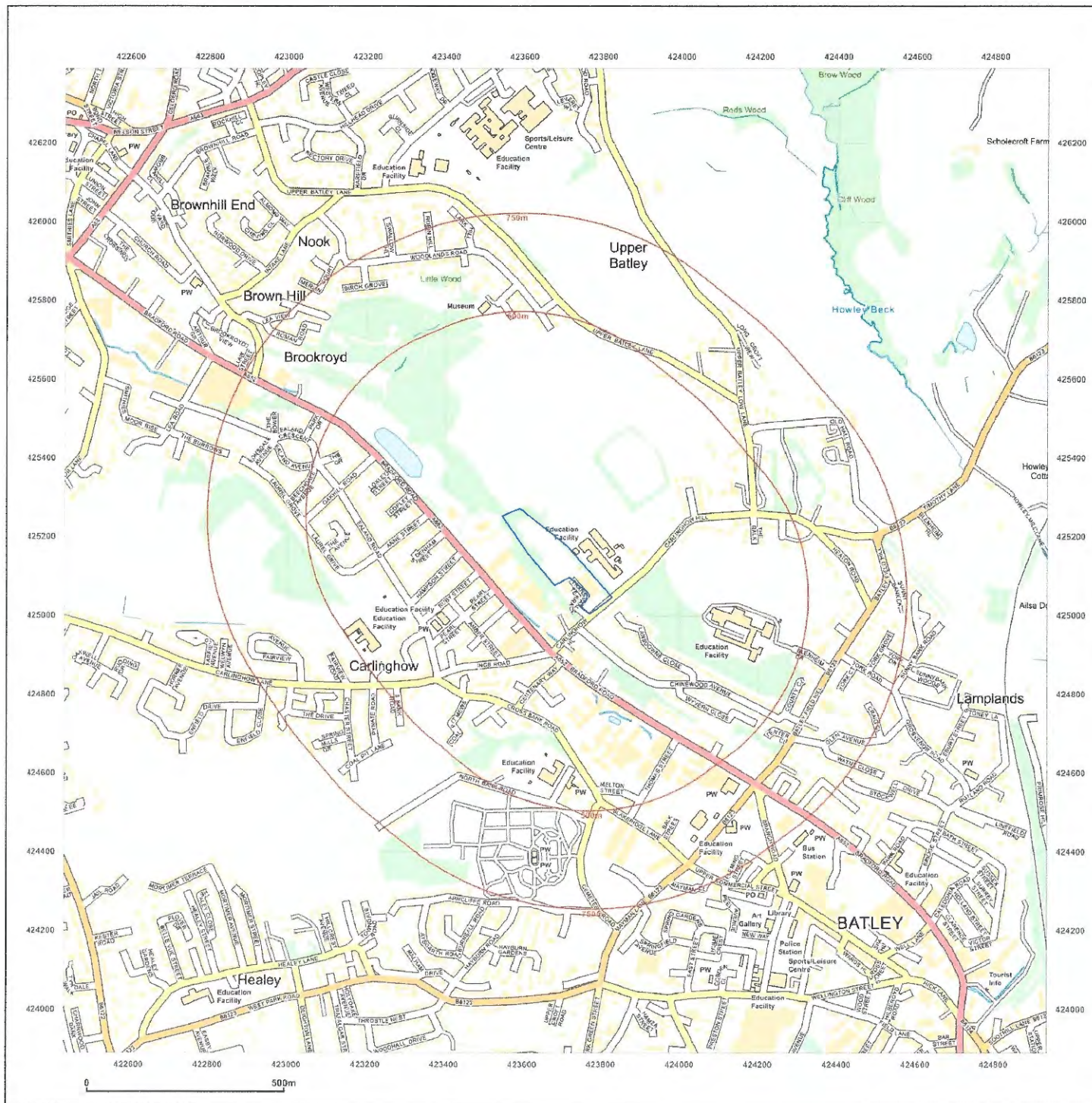


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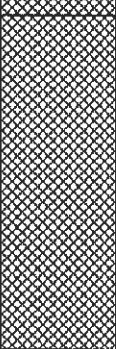

Map legend available at:  
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




# **APPENDIX C**


## EXPLORATORY HOLE LOGS

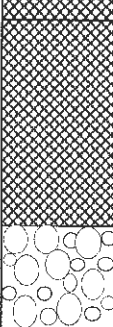

Trial Pit Record				TP No	1		
Method: Machine excavated trial pit using a 1.5 tonne 360° excavator. Using 450mm bucket		Site	Carlinghow Hill, Batley	Contract No	C316		
				Date	02/04/19		
Sample Details		Client	KUFIC	Scale	01:10		
				Logged By	AS		
Type	Depth To-from (m)	Vane kN/m <sup>2</sup>	Description	Depth (m)	Level (mAOD)	Legend	
ES	0.30		MADE GROUND: Black Tarmacadam	0.05			
			MADE GROUND: COBBLES of whole bricks	0.15			
ES	1.00		MADE GROUND: Firm greyish brown, locally yellowish brown, slightly sandy very gravelly CLAY. Sand is fine to coarse, gravel sized fragments are subangular fine to coarse of mudstone and rare coal. Occasional 5-10cm pockets of dark grey mudstone (Re-worked clay)				
ES	1.60		MADE GROUND: Firm dark grey locally black silty clay. From 1.70m, occasional 5cm fragments of plastic	1.50			
			Pit Complete at 1.70m (Target Depth)				
Remarks			Sample Types				
Faces stable during excavation			D - Disturbed				W - Water
No groundwater encountered			B - Bulk				ES - Environmental
Pit dimension = 0.45m x 1.4m							


Trial Pit Record				TP No	2	
Method:	Machine excavated trial pit using a 1.5 tonne 360° excavator. Using 450mm bucket	Site	Carlinghow Hill, Batley	Contract No	C316	
				Date	02/04/19	
Sample Details			Client	KUFIC	Scale	01:10
Type	Depth To-from (m)	Vane kN/m <sup>2</sup>	Description	Depth (m)	Level (mAOD)	Legend
ES	0.30		Firm brown gravelly CLAY (TOPSOIL)	0.10		---
			Soft, light brown sandy CLAY with high cobble content. Sand is fine to coarse, cobbles are subangular of sandstone	0.60		---
			Weak pale yellow fine to medium SANDSTONE			---
Trial Pit Complete at 0.70m (Target Depth)						
Remarks			Sample Types			
Faces stable during excavation No groundwater encountered Pit dimension = 0.45m x 1.3m			D - Disturbed      W - Water B - Bulk            ES - Environmental			

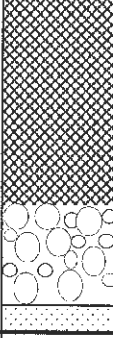

Trial Pit Record					TP No	3
<b>Method:</b> Machine excavated trial pit using a 1.5 tonne 360° excavator. Using 450mm bucket					Contract No	C316
					Date	02/04/19
					Scale	01:10
<b>Sample Details</b>					Client	KUFIC
					Logged By	AS
Type	Depth To-from (m)	Vane kN/m <sup>2</sup>	Description	Depth (m)	Level (mAOD)	Legend
ES	0.10		Firm brown gravelly CLAY (TOPSOIL)	0.15		---
ES	0.40		Firm, pale yellow slightly gravelly sandy CLAY. Sand is fine to coarse, gravel is subangular fine to coarse of sandstone	0.45		---
			Pale yellow, sandy subangular fine to coarse GRAVEL of sandstone with a high cobble content. Cobbles are subangular of Sandstone	1.00		
			Weak pale yellow fine to medium SANDSTONE			
Pit Terminated at 1.05m (Target Depth)						
<b>Remarks</b> Faces stable during excavation No groundwater encountered Pit dimension = 0.45m x 1.8m			<b>Sample Types</b> D - Disturbed      W - Water B - Bulk              ES - Environmental			


Trial Pit Record				TP No	4	
Method: Machine excavated trial pit using a 1.5 tonne 360° excavator. Using 450mm bucket		Site	Carlinghow Hill, Batley	Contract No	C316	
				Date	02/04/19	
Sample Details		Client	KUFIC	Scale	01:10	
				Logged By	AS	
Type	Depth To-from (m)	Vane kN/m <sup>2</sup>	Description	Depth (m)	Level (mAOD)	Legend
			Firm brown gravelly CLAY (TOPSOIL)	0.05		— —
ES	0.40		Soft, light brown sandy CLAY with high cobble content. Sand is fine to coarse, cobbles are subangular of sandstone			— —
ES	0.60		Medium strong pale yellow fine to medium SANDSTONE	0.60		— —
			Pit Terminated at 0.70m (Target Depth)			
Remarks			Sample Types			
Faces stable during excavation			D - Disturbed	W - Water		
No groundwater encountered			B - Bulk	ES - Environmental		
Pit dimension = 0.45m x 1.0m						
Re-excavated on 07/06/19 for further sample recovery						

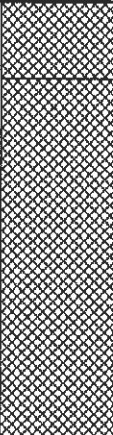

Trial Pit Record				TP No	5	
Method:	Machine excavated trial pit using a 1.5 tonne 360° excavator. Using 450mm bucket	Site	Carlinghow Hill, Batley	Contract No	C316	
				Date	02/04/19	
				Scale	01:10	
Sample Details		Client	KUFIC	Logged By	AS	
Type	Depth To-from (m)	Vane kN/m <sup>2</sup>	Description	Depth (m)	Level (mAOD)	Legend
ES	0.40		Firm brown gravelly CLAY (TOPSOIL)	0.05		---
			Yellowish brown, locally mottled light grey clayey subangular fine to coarse GRAVEL of siltstone with medium cobble content. Cobbles are subangular of siltstone			---
			Extremely weak pale yellow SILTSTONE	0.95		---
			Pit Terminated at 1.00m (Target Depth)			✕ ✕
Remarks			Sample Types			
Faces stable during excavation			D - Disturbed	W - Water		
No groundwater encountered			B - Bulk	ES - Environmental		
Pit dimension = 0.45m x 1.3m						


Trial Pit Record				TP No	6	
Method:		Machine excavated trial pit using a 6 tonne 360° excavator. Using 450mm bucket	Site	Carlinghow Hill, Batley		
			Client	KUFIC		
Sample Details						
Type	Depth To-from (m)	Vane kN/m <sup>2</sup>	Description	Depth (m)	Level (mAOD)	Legend
ES	0.50		Firm brown gravelly CLAY (TOPSOIL)	0.10		
			MADE GROUND: Light grey locally greyish brown very sandy subangular fine to coarse GRAVEL sized fragments of concrete, brick, tile and plaster. Sand is fine to coarse	0.90		
			Pale yellow, very gravelly subangular COBBLE sized fragments of sandstone. Gravel is subangular medium to coarse of sandstone. (Weathered Rockhead)			
			Pit Terminated at 1.30m (Target Depth)			
<b>Remarks</b> Faces stable during excavation No groundwater encountered Pit dimension = 0.70m x 1.8m			<b>Sample Types</b> D - Disturbed      W - Water B - Bulk              ES - Environmental			

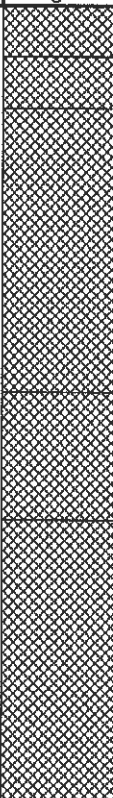

Trial Pit Record				TP No	7	
Method: Machine excavated trial pit using a 6 tonne 360° excavator. Using 450mm bucket		Site	Carlinghow Hill, Batley	Contract No	C316	
				Date	05/04/19	
Sample Details		Client	KUFIC	Scale	01:10	
				Logged By	AS	
Type	Depth To-from (m)	Vane kN/m <sup>2</sup>	Description	Depth (m)	Level (mAOD)	Legend
			Firm brown gravelly CLAY (TOPSOIL)	0.20		---
ES	0.40		Firm, orangish yellow mottled light grey gravelly CLAY. Gravel is subangular fine to coarse of siltstone and sandstone.			---
ES	0.70		From 0.80m gravel is coarse very thinly bedded lithorelict sandstone			---
			Extremely weak pale yellow SANDSTONE	0.95		---
Pit Terminated at 1.00m (Target Depth)						
<b>Remarks</b> Faces stable during excavation No groundwater encountered Pit dimension = 0.45m x 1.2m Re-excavated on 07/06/19 for further sample recovery			<b>Sample Types</b> D - Disturbed      W - Water B - Bulk            ES - Environmental			


Trial Pit Record				TP No	8	
Method: Machine excavated trial pit using a 6 tonne 360° excavator. Using 450mm bucket		Site	Carlinghow Hill, Batley	Contract No	C316	
				Date	05/04/19	
Sample Details		Client	KUFIC	Scale	01:10	
				Logged By	AS	
Type	Depth To-from (m)	Vane kN/m <sup>2</sup>	Description	Depth (m)	Level (mAOD)	Legend
ES	0.50		Firm brown gravelly CLAY (TOPSOIL)	0.10		
			MADE GROUND: Soft to firm dark greyish brown slightly sandy gravelly CLAY. Sand is fine to coarse, gravel sized fragments are subangular fine to coarse of mudstone, coal and clinker.	0.80		
			Pale yellow, very gravelly subangular COBBLE sized fragments of sandstone. Gravel is subangular medium to coarse of sandstone	1.15		
			Very weak pale yellow fine and medium SANDSTONE			
			<b>Pit Terminated at 1.20m (Target Depth)</b>			
Remarks			Sample Types			
Faces stable during excavation			D - Disturbed      W - Water			
No groundwater encountered			B - Bulk              ES - Environmental			
Pit dimension = 0.45m x 1.4m						



Trial Pit Record				TP No	9		
Method:	Machine excavated trial pit using a 6 tonne 360° excavator. Using 450mm bucket	Site	Carlinghow Hill, Batley	Contract No	C316		
				Date	05/04/19		
				Scale	01:10		
Sample Details		Client	KUFIC	Logged By	AS		
Type	Depth To-from (m)	Vane kN/m <sup>2</sup>	Description	Depth (m)	Level (mAOD)	Legend	
ES	0.40		Firm brown gravelly CLAY (TOPSOIL)	0.20		—	
ES	0.80		Firm, orangish yellow mottled light grey gravelly CLAY. Gravel is subangular fine to coarse of siltstone and sandstone.	0.80		—	
			Pale yellow, very gravelly subangular COBBLE sized fragments of sandstone. Gravel is subangular medium to coarse of sandstone (Weathered Rockhead)	1.05		—	
			Extremely weak pale yellow SANDSTONE				
<b>Pit Terminated at 1.10m (Target Depth)</b>							
Remarks			Sample Types				
Faces stable during excavation			D - Disturbed				W - Water
No groundwater encountered			B - Bulk				ES - Environmental
Pit dimension = 0.45m x 1.3m							


Trial Pit Record				TP No	10	
Method: Machine excavated trial pit using a 6 tonne 360° excavator. Using 450mm bucket		Site	Carlinghow Hill, Batley	Contract No	C316	
				Date	05/04/19	
Sample Details		Client	KUFIC	Scale	01:10	
				Logged By	AS	
Type	Depth To-from (m)	Vane kN/m <sup>2</sup>	Description	Depth (m)	Level (mAOD)	Legend
ES	0.50		Firm brown gravelly CLAY (TOPSOIL)	0.30		
			POSSIBLE MADE GROUND: Firm, yellowish grey locally light grey gravelly silty CLAY. Gravel is subangular fine to coarse of mudstone.	1.70		
			Extremely weak light grey MUDSTONE: Recovered as subangular fine to coarse gravel			
			Pit complete at 1.90m (Target Depth)			
Remarks			Sample Types			
Faces stable during excavation			D - Disturbed	W - Water		
No groundwater encountered			B - Bulk	ES - Environmental		
Pit dimension = 0.45m x 8m						
Pit dug through old quarry high wall						

Trial Pit Record				TP No	11	
<b>Method:</b>		Machine excavated trial pit using a 6 tonne 360° excavator. Using 450mm bucket	<b>Site</b>	Carlinghow Hill, Batley		
			<b>Client</b>	KUFIC		
<b>Sample Details</b>				<b>Contract No</b>	C316	
				<b>Date</b>	05/04/19	
				<b>Scale</b>	01:10	
				<b>Logged By</b>	AS	
Type	Depth To-from (m)	Vane kN/m <sup>2</sup>	Description	Depth (m)	Level (mAOD)	Legend
			MADE GROUND: Black Tarmacadam	0.05		
			MADE GROUND: Cream subangular coarse GRAVEL sized fragments of limestone (Type 1 Fill)	0.30		
ES	0.50		MADE GROUND: Black speckled orange slightly clayey sandy subangular fine to coarse GRAVEL sized fragments of clinker and brick. Sand sized fragments are fine to coarse of ash	0.90		
ES	1.20		MADE GROUND: Soft to firm dark grey very gravelly CLAY. Gravel is subangular fine to coarse of mudstone	2.00		
ES	2.50		Firm, yellowish orange mottled dark grey very gravelly CLAY. Gravel is subangular fine to coarse of mudstone and rare coal	3.10		
ES	3.00		Extremely weak pale yellow fine and medium SANDSTONE: Recovered as subangular fine to coarse gravel			
			<b>Pit complete at 3.30m (Target Depth)</b>			
<b>Remarks</b>			<b>Sample Types</b>			
Faces stable during excavation No groundwater encountered Pit dimension = 0.45m x 1.5m			D - Disturbed      W - Water B - Bulk              ES - Environmental			


Trial Pit Record				TP No	12	
<b>Method:</b>		Machine excavated trial pit using a 6 tonne 360° excavator. Using 450mm bucket	<b>Site</b>	Carlinghow Hill, Batley		
			<b>Client</b>	KUFIC		
<b>Sample Details</b>				<b>Contract No</b>	C316	
				<b>Date</b>	05/04/19	
				<b>Scale</b>	01:10	
				<b>Logged By</b>	AS	
Type	Depth To-from (m)	Vane kN/m <sup>2</sup>	Description	Depth (m)	Level (mAOD)	Legend
ES	0.50		MADE GROUND: Light grey Concrete, 30% aggregate, with 20 x 20cm rebar lattice	0.20		
			MADE GROUND: Light brown subangular coarse cobble sized fragments of limestone (Type 1 Fill)	0.40		
ES	1.00		MADE GROUND: Black speckled orange slightly clayey sandy subangular fine to coarse GRAVEL sized fragments of clinker and brick. Sand sized fragments are fine to coarse of ash	1.50		
ES	1.70		MADE GROUND: Soft to firm orangish yellow sandy gravelly CLAY. Sand is fine to coarse, gravel sized fragments are subangular fine to coarse of sandstone and occasional brick and clinker.	2.00		
ES	2.70		MADE GROUND: Black speckled orange slightly clayey sandy subangular fine to coarse GRAVEL sized fragments of clinker and brick. Sand sized fragments are fine to coarse of ash	3.10		
ES	3.20		Firm, orangish yellow sandy gravelly CLAY. Sand is fine to coarse, gravel is subangular fine to coarse of sandstone.			
			<b>Pit complete at 3.60m (Target Depth)</b>			
<b>Remarks</b>			<b>Sample Types</b>			
Faces stable during excavation No groundwater encountered Pit dimension = 0.45m x 1.5m			D - Disturbed      W - Water B - Bulk              ES - Environmental			

Window Sampling Borehole				BH No		1
				Contract No		C316
Method: Windowless sampling borehole using a Dando Terrier		Site	CarlInghow Hill, Batley			
		Client	KUFIC			
Sample Details						
Type	Depth To-from (m)	Records	Description	Depth (m)	Level (mAOD)	Legend
ES	0.50					
ES	1.00		MADE GROUND: Yellowish grey locally dark grey clayey subangular fine to coarse GRAVEL sized fragments of clinker and coal			
ES	2.00			1.90		
ES	3.00		MADE GROUND: Dark grey speckled orange sandy subangular fine to coarse GRAVEL sized fragments of ash, brick, clinker and concrete. Sand is fine to coarse			
ES	4.00			4.30		
ES	4.50		Stiff, friable, light brown mottled light grey very gravelly CLAY. Gravel is subangular medium to coarse of very thinly bedded lithorelic mudstone.			
				6.00		
<b>Borehole Complete at 6.00m</b>						
Remarks No groundwater encountered during drilling Gas monitoring well installed to 2.9m Borehole redrilled on 07/06/19 for further samples			Sample Types D - Disturbed      W - Water U - Undisturbed			

Window Sampling Borehole				BH No	2	
				Contract No	C316	
Method:	Windowless sampling borehole using a Dando Terrier	Site	Carlinghow Hill, Batley			
		Client	KUFIC			
Sample Details						
Type	Depth To-from (m)	Records	Description	Depth (m)	Level (mAOD)	Legend
			MADE GROUND: Black Tarmacadam	0.10		
ES	0.50		MADE GROUND: Strong, light grey Concrete. 50% aggregate. Aggregate is subrounded to well rounded of quartz	0.40		
ES	1.00		MADE GROUND: Black, locally reddish brown sandy subangular fine to coarse GRAVEL sized fragments of ash and clinker			
ES	1.50					
ES	1.90		MADE GROUND: Light grey sandy subangular fine to coarse GRAVEL sized fragments of mudstone. Sand is fine to coarse	1.80		
ES	2.50		MADE GROUND: Black, locally reddish brown sandy subangular fine to coarse GRAVEL sized fragments of ash and clinker	2.10		
			Extremely weak pale yellow MUDSTONE: Recovered as subangular fine to coarse gravel	3.60		
<b>Borehole Complete at 3.80m</b>						
<b>Remarks</b> No groundwater encountered during drilling Gas monitoring well installed to 2.85m				<b>Sample Types</b> D - Disturbed      W - Water U - Undisturbed		
				Sheet 1 of 1		


Window Sampling Borehole				BH No	3	
Method: Windowless sampling borehole using a Dando Terrier		Site	Carlinghow Hill, Batley			
		Client	KUFIC			
Sample Details		Description		Depth (m)	Level (mAOD)	Legend
Type	Depth To-from (m)	Records				
ES	0.40		MADE GROUND: Strong, light grey concrete. 30% Aggregate, aggregate is subrounded to rounded fine to coarse of quartz	0.30		
ES	1.00		MADE GROUND: Black, locally light grey clayey sandy subangular fine to coarse GRAVEL sized fragments of ash clinker, limestone and brick	1.10		
ES	1.50		MADE GROUND: Light yellowish brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel sized fragments are subangular fine to medium of mudstone and brick	2.00		
ES	2.50		MADE GRDUND: Black, locally light grey clayey sandy subangular fine to coarse GRAVEL sized fragments of ash, clinker and brick			
ES	3.50		Extremely weak pale yellow MUDSTONE: Recovered as subangular fine to coarse gravel	3.50		
			<b>Borehole Complete at 3.80m</b>			
<b>Remarks</b> No groundwater encountered during drilling Borehole backfilled upon completion						
<b>Sample Types</b> D - Disturbed      W - Water U - Undisturbed						




Window Sampling Borehole				BH No	4	
				Contract No	C316	
Method:	Windowless sampling borehole using a Dando Terrier	Site	Carlinghow Hill, Batley			
		Date	02/04/19			
		Scale	01:10			
		Client	KUFIC			
		Logged By	AS			
Sample Details			Description	Depth (m)	Level (mAOD)	Legend
Type	Depth To-from (m)	Records				
ES	0.50		MADE GROUND: Black Tarmacadam	0.10		
			MADE GROUND: Strong, light grey Concrete. 50% aggregate. Aggregate is subrounded to well rounded of quartz. Rebar in 10cm x 10cm grid	0.40		
ES	1.00		MADE GROUND: Greyish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel sized fragments are subangular fine to coarse of brick, tile and glass.	1.20		
ES	1.50		Extremely weak friable, dark grey locally black slightly clayey very thinly bedded MUDSTONE			
			From 1.60m becoming light grey with orange staining along bedding planes			
<b>Borehole Complete at 1.80m</b>						





  

<b>Remarks</b> No groundwater encountered during drilling Gas monitoring well installed to 1.8m Borehole redrilled on 07/06/19 for further samples	<b>Sample Types</b> D - Disturbed U - Undisturbed	W - Water
	Sheet 1 of 1	



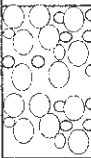
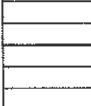

Window Sampling Borehole				BH No	5	
				Contract No	C316	
Method:	Windowless sampling borehole using a Dando Terrier	Site	Carlinghow Hill, Batley			
		Date	05/04/19			
		Scale	01:10			
		Client	KUFIC			
		Logged By	AS			
Sample Details						
Type	Depth To-from (m)	Records	Description	Depth (m)	Level (mAOD)	Legend
ES	0.30		MADE GROUND: Black Tarmacadam	0.20		
ES	1.80		MADE GROUND: Firm orangish grey very gravelly CLAY. Gravel sized fragments are fine to coarse of brick, coal and clinker			
ES	3.20					
ES	4.50		MADE GROUND: Dark grey speckled orange subangular fine to coarse GRAVEL sized fragments of mudstone and brick	4.10		
ES	6.00		MADE GROUND: Dark grey locally black gravelly CLAY. Gravel is subangular fine to coarse of mudstone and rare brick	5.50		
			<b>Borehole Complete at 6.50m</b>			
<b>Remarks</b>			<b>Sample Types</b>			
No groundwater encountered during drilling			D - Disturbed	W - Water		
Gas monitoring well installed to 3.05m			U - Undisturbed			




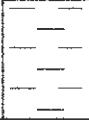
Window Sampling Borehole				BH No	6	
				Contract No	C316	
Method:	Windowless sampling borehole using a Dando Terrier	Site	CarlInghow Hill, Batley			
		Client	KUFIC			
Sample Details						
Type	Depth To-from (m)	Records	Description	Depth (m)	Level (mAOD)	Legend
ES	0.50		MADE GROUND: Black Tarmacadam MADE GROUND: Cream, subangular coarse GRAVEL of limestone (Type 1 Fill)	0.10 0.20		
ES	1.00		Stiff, friable, light brown mottled light grey very gravelly CLAY. Gravel is subangular medium to coarse of very thinly bedded lithorelic mudstone.	1.70		
			Extremely weak pale yellow MUDSTONE: Recovered as subangular fine to coarse gravel			
<b>Borehole Complete at 1.90m</b>						
<b>Remarks</b> No groundwater encountered during drilling Borehole backfilled upon completion			<b>Sample Types</b> D - Disturbed      W - Water U - Undisturbed			

Window Sampling Borehole				BH No	7			
Method: Windowless sampling borehole using a Dando Terrier		Site	Carlinghow Hill, Batley					
		Client	KUFIC					
Sample Details		Type	Depth To-from (m)	Records	Description	Depth (m)	Level (mAOD)	Legend
ES	0.50				MADE GROUND: Black Tarmacadam MADE GROUND: Cream, subangular coarse gravel of limestone (Type 1 Fill)	0.10 0.20		
ES	1.50				Dark grey locally black slightly clayey subangular fine to coarse GRAVEL of mudstone			
ES	3.00				Firm, pale yellowish orange slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of sandstone	2.80		
<b>Borehole Complete at 4.00m</b>								
Remarks		Sample Types						
No groundwater encountered during drilling Gas monitoring well installed to 2.95m		D - Disturbed U - Undisturbed		W - Water				







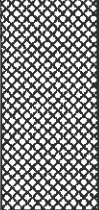
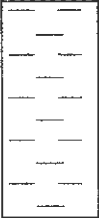
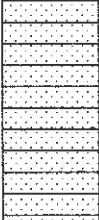
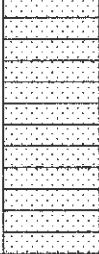

Window Sampling Borehole				BH No		8	
				Contract No		C316	
Method: Windowless sampling borehole using a Dando Terrier		Site		Carlinghow Hill, Batley			
		Client		KUFIC			
Sample Details							
Type	Depth To-from (m)	Records	Description	Depth (m)	Level (mAOD)	Legend	
ES	1.00		Firm brown CLAY (TOPSOIL)	0.10		---	
			Firm, yellowish brown slightly gravelly CLAY. Gravel is subangular fine to coarse of sandstone	0.20			
ES	0.50		Dark grey locally black slightly clayey subangular fine to coarse GRAVEL of mudstone (Highly weathered rock)	0.90			
			Extremely weak pale yellow MUDSTONE: Recovered as subangular fine to coarse gravel				
<b>Borehole Complete at 1.40m</b>							
Remarks				Sample Types			
No groundwater encountered during drilling				D - Disturbed      W - Water			
Borehole backfilled upon completion				U - Undisturbed			



Window Sampling Borehole				BH No	9	
Method: Windowless sampling borehole using a Dando Terrier		Site	Carlinghow Hill, Batley			
		Client	KUFIC			
Sample Details		Description		Depth (m)	Level (mAOD)	Legend
Type	Depth To-from (m)	Records				
ES	0.50		MADE GROUND: Black Tarmacadam	0.10		
			MADE GROUND: Yellowish grey locally dark grey clayey subangular fine to coarse GRAVEL sized fragments of clinker and coal	1.90		
ES	2.50		MADE GROUND: Dark grey speckled orange sandy subangular fine to coarse GRAVEL sized fragments of ash, brick, clinker and concrete. Sand is fine to coarse	5.40		
			Stiff, friable, light brown mottled light grey very gravelly CLAY. Gravel is subangular medium to coarse of very thinly bedded lithorelic mudstone.	6.00		
			<b>Borehole Complete at 6.00m</b>			
Remarks		Sample Types				
No groundwater encountered during drilling Gas monitoring well installed to 3.05m		D - Disturbed U - Undisturbed		W - Water		



Window Sampling Borehole				BH No	10	
				Contract No	C316	
Method:	Windowless sampling borehole using a Dando Terrier	Site	Carlinghow Hill, Batley			
		Date	02/04/19			
		Client	KUFIC		Scale	01:10
					Logged By	AS
Sample Details			Description	Depth (m)	Level (mAOD)	Legend
Type	Depth To-from (m)	Records				
ES	0.50		MADE GROUND: Black Tarmacadam	0.20		
ES	1.20					
ES	1.50					
ES	2.50		MADE GROUND: Black locally speckled orange slightly sandy clayey subangular fine to coarse GRAVEL sized fragments of clinker, coal and ash. Sand is fine to coarse of ash.			
ES	4.10		Weak pale yellow SILTSTONE: Recovered as subangular fine to coarse gravel	4.05		
			<b>Borehole Complete at 4.40m</b>			
Remarks			Sample Types			
No groundwater encountered during drilling Gas monitoring well installed to 2.95m			D - Disturbed      W - Water U - Undisturbed			

Window Sampling Borehole				BH No		11
				Contract No		C316
Method: Windowless sampling borehole using a Dando Terrier		Site	Carlinghow Hill, Batley			
		Client	KUFIC			
Sample Details						
Type	Depth To-from (m)	Records	Description	Depth (m)	Level (mAOD)	Legend
ES	0.50		Firm brown CLAY (TOPSOIL)	0.20		
ES	1.00		MADE GROUND: Black locally speckled orange, slightly clayey subangular fine to coarse gravel sized fragments of clinker and brick.			
ES	1.50			1.80		
			Firm, orangish yellow mottled light grey gravelly CLAY. Gravel is subangular fine to coarse of siltstone and sandstone.	1.80		
			Extremely weak light yellow SANDSTONE: Recovered as subangular fine to coarse gravel			
<b>Borehole Complete at 4.00m</b>						
Remarks No groundwater encountered during drilling Borehole backfilled upon completion			Sample Types D - Disturbed      W - Water U - Undisturbed			



# **APPENDIX D**

## **LABORATORY TEST RESULTS**



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## **Analytical Report Number : 19-36193**

<b>Project / Site name:</b>	Carlinghow Hill, Batley	<b>Samples received on:</b>	05/04/2019
<b>Your job number:</b>	C316	<b>Samples instructed on:</b>	05/04/2019
<b>Your order number:</b>		<b>Analysis completed by:</b>	15/04/2019
<b>Report Issue Number:</b>	1	<b>Report issued on:</b>	15/04/2019
<b>Samples Analysed:</b>	3 leachate samples - 11 soil samples		

**Signed:**

Dr Claire Stone  
Quality Manager  
**For & on behalf of i2 Analytical Ltd.**

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Iss No 19-36193-1 Carlinghow Hill, Batley C316

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The results included within the report are representative of the samples submitted for analysis.

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Environmental Science

Analytical Report Number: 19-36193

Project / Site name: Carlinghow Hill, Batley

Lab Sample Number	1194367			1194368			1194369			1194370			1194371		
Sample Reference	BH3			BH3			BH4			BH2			BH2		
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Depth (m)	0.40			1.00			0.50			0.50			1.50		
Date Sampled	02/04/2019			02/04/2019			02/04/2019			02/04/2019			02/04/2019		
Time Taken	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status												
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	15	19	17	15	28							
Total mass of sample received	kg	0.001	NONE	0.52	0.46	0.44	0.38	0.39							

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	-	-	-
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**General Inorganics**

pH - Automated	pH Units	N/A	MCERTS	8.1	-	-	8.2	-
Total Sulphate, as SO <sub>4</sub>	mg/kg	50	MCERTS	850	-	-	1300	-
Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	-	-

**Total Phenols**

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
----------------------------	-------	---	--------	-------	-------	-------	-------	-------

**Speciated PAHs**

Naphthalene	mg/kg	0.05	MCERTS	4.5	-	-	0.47	0.52
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	3.1	-	-	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	1.9	-	-	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	14	-	-	0.74	0.50
Anthracene	mg/kg	0.05	MCERTS	2.8	-	-	0.13	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	13	-	-	2.3	0.25
Pyrene	mg/kg	0.05	MCERTS	11	-	-	3.1	0.26
Benzo(a)anthracene	mg/kg	0.05	MCERTS	6.2	-	-	2.1	0.25
Chrysene	mg/kg	0.05	MCERTS	5.7	-	-	2.5	0.26
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	4.9	-	-	3.4	0.22
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	2.6	-	-	2.3	0.13
Benzo(a)pyrene	mg/kg	0.05	MCERTS	4.5	-	-	3.7	0.22
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.0	-	-	1.8	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.91	-	-	0.55	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.5	-	-	2.4	< 0.05

**Total PAH**

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	79.2	-	-	25.4	2.61
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Environmental Science

Analytical Report Number: 19-36193

Project / Site name: Carlinghow Hill, Batley

Lab Sample Number	1194367		1194368		1194369		1194370		1194371	
Sample Reference	BH3		BH3		BH4		BH2		BH2	
Sample Number	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.40		1.00		0.50		0.50		1.50	
Date Sampled	02/04/2019		02/04/2019		02/04/2019		02/04/2019		02/04/2019	
Time Taken	None Supplied		None Supplied		None Supplied		None Supplied		None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status							

Heavy Metals / Metalloids										
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	21	110	6.7	33	160		
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2		
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0		
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	21	26	28	22	50		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	51	730	41	92	210		
Lead (aqua regia extractable)	mg/kg	1	MCERTS	70	74	29	23	170		
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	56	48	57	75		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	6.5		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	33	160	89	40	160		

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-		
PCB Congener 52	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-		
PCB Congener 101	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-		
PCB Congener 118	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-		
PCB Congener 138	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-		
PCB Congener 153	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-		
PCB Congener 180	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-		

Total PCBs by GC-MS

Total PCBs	mg/kg	0.007	MCERTS	< 0.007	< 0.007	-	-	-		
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