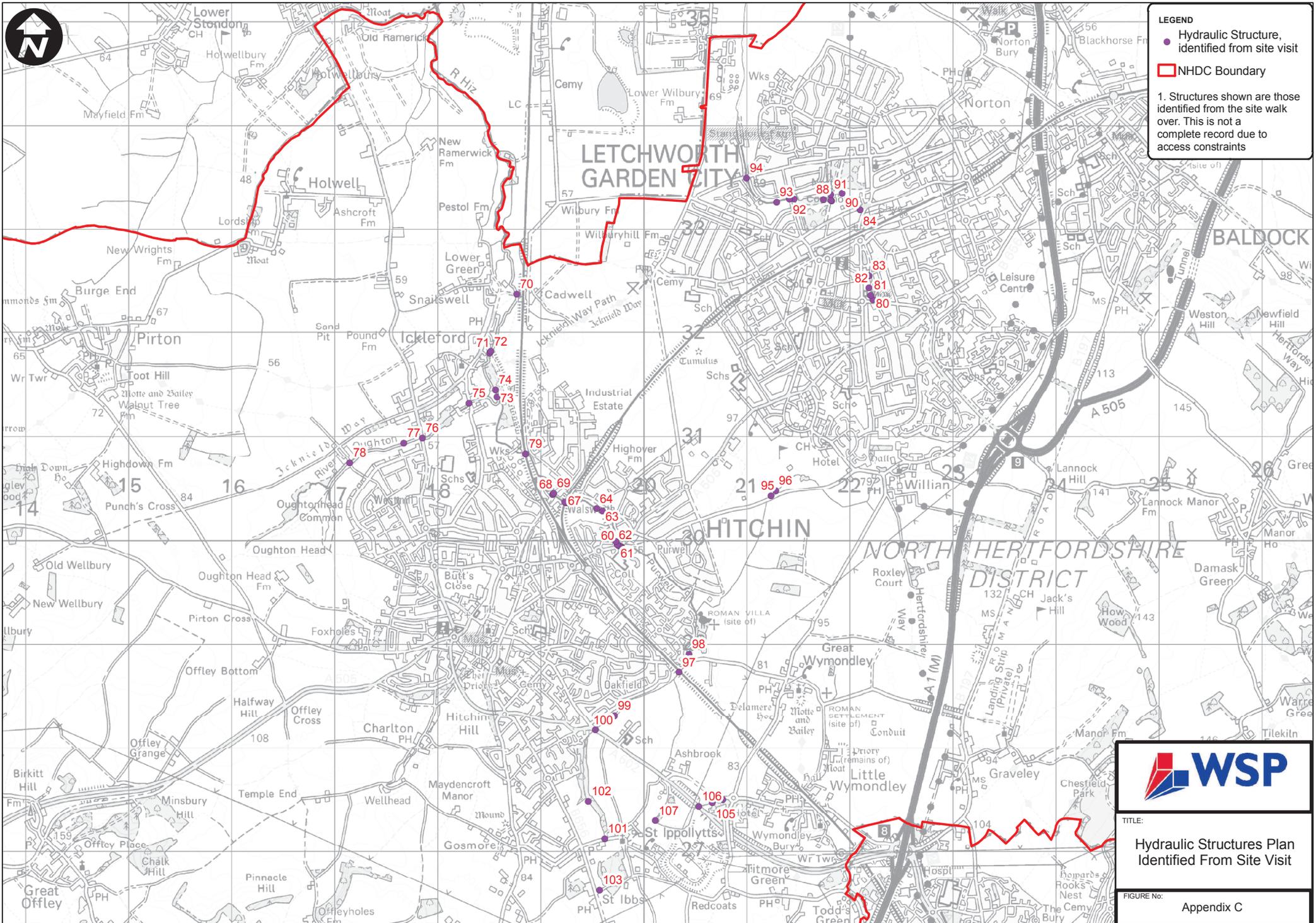
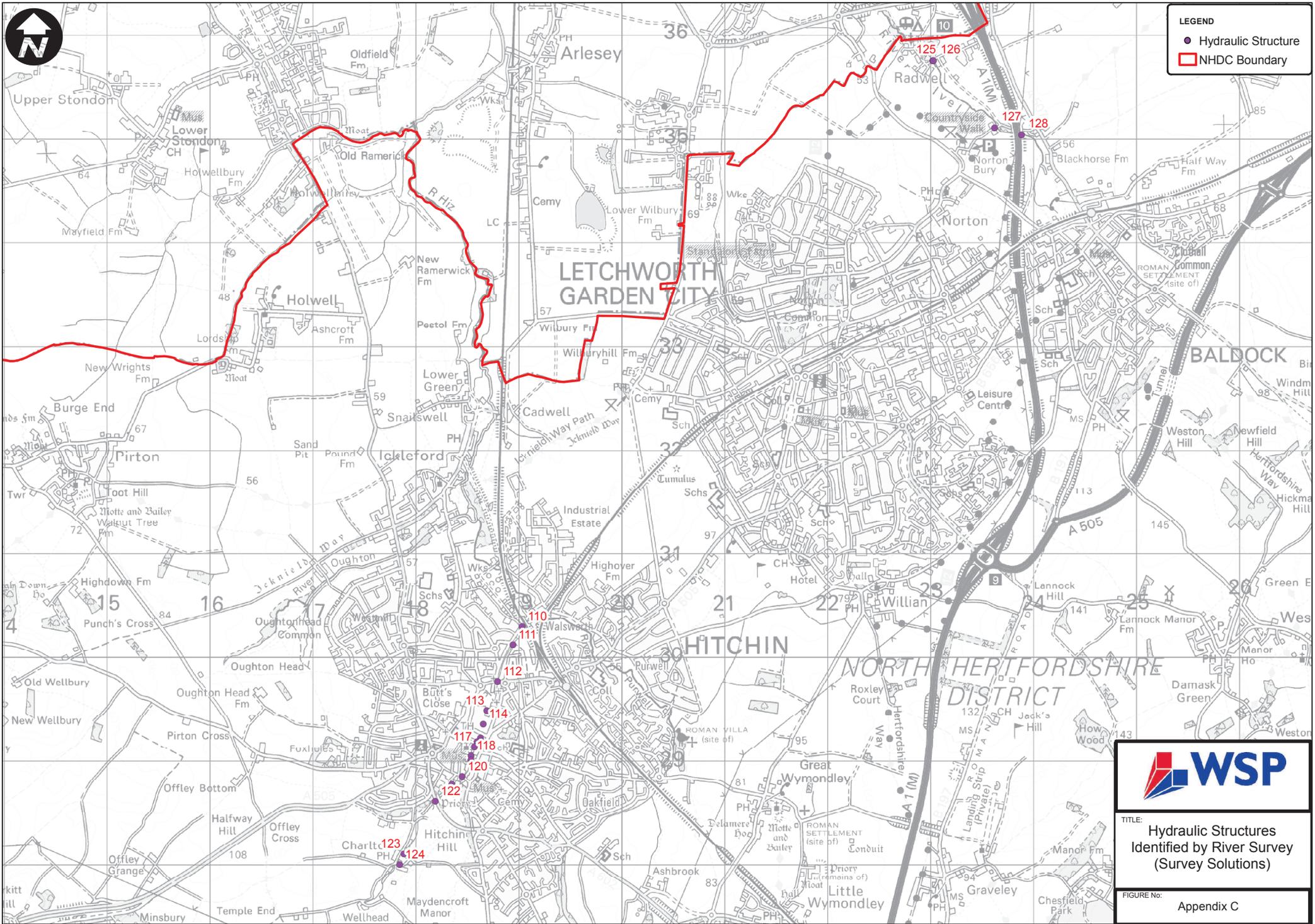


Structure Number	RIVER	TOWN	LOCATION	GRID REF	STRUCTURE TYPE	STRUCTURE SHAPE	DIMENSIONS (m if not otherwise stated)	MATERIAL	CONDITION	US CHANNEL PROFILE	DS CHANNEL PROFILE	OBSERVATIONS
57	Purwell	Hitchin	Adjacent to No. 2 Wymonadly Road	520380,228835	Bridge	Arch	1.2h x 1.5w	Concrete	Good	No access	Trapezoidal, sand bed	Shallow channel, water depth 5cm at time of site visit
58	Purwell	Hitchin	Cambridge Road A505 adjacent to Millstream Pub	519728,229925	Pipe Crossings	Circular	300mm, 200mm & 10x100mm	Steel and potentially plastic	Good	Pools and riffles, densely vegetated	Shallow and wide	Shallow slow moving water
59	Purwell	Hitchin	Cambridge Road A505 adjacent to Millstream Pub	519728,229925	Footbridge	Rectangular	2.0h x 5.0w (approx)	Steel and concrete	Good	Pools and riffles, densely vegetated	Shallow and wide	Shallow slow moving water
60	Purwell	Hitchin	Cambridge Road A505 adjacent to Millstream Pub	519718,229925	Bridge (US face)	Arch	2.0h x 4.0w (approx)	Steel and concrete	Good	Pools and riffles, densely vegetated	Shallow and wide	Shallow slow moving water
60	Purwell	Hitchin	Cambridge Road A505 adjacent to Millstream Pub	519718,229925	Bridge (DS face)	Rectangular	2.0h x 6.0w	Steel and concrete	Good	Pools and riffles, densely vegetated	Shallow and wide	Shallow slow moving water
61	Purwell	Hitchin	Cambridge Road A505 adjacent to Millstream Pub	519708,229955	Weir	Sharp crested	2.0w x two	Concrete	Poor	-	Wider and shallower	Half of weir length blocked with no conveyance at time of site visit
62	Purwell	Hitchin	Cambridge Road A505 adjacent to Millstream Pub	519688,229985	Footbridge	Arch	2.2h x 8.0w (approx)	Wood	Good	Trapezoidal, sand bed 8m wide approx	Trapezoidal, sand bed 8m wide approx	Potential for high flows overtopping left bank
63	Purwell	Hitchin	Adjacent to Walswarth Common	519510,230155	Footbridge	Rectangular	0.6h x 4.0w (approx)	Steel and concrete	Good	Rectangular	Rectangular	Deep slow moving water, insignificant in terms of backwater effect in high flows
64	Purwell	Hitchin	Adjacent to Walswarth Common	519410,230245	Footbridge	Rectangular	1.2h x 4.0w (approx)	Steel and wood	Good	Rectangular	Rectangular	Deep slow moving water, insignificant in terms of backwater effect in high flows
65	Purwell	Hitchin	US railway, adjacent to Walsworth Common	519218,230290	Pipe Crossings	Circular	7 x 250mm	Steel	Good	Rectangular	Rectangular	Deep slow moving water, insignificant in terms of backwater effect in high flows
66	Purwell	Hitchin	US railway, adjacent to Walsworth Common	519218,230290	Footbridge	Rectangular	2.5h x 4.0w (approx)	Steel	Good	Rectangular	Rectangular	Deep slow moving water, insignificant in terms of backwater effect in high flows
67	Purwell	Hitchin	Railway line structure	519200,230290	Culvert	Arch conduit	2.0h x 3.5w (approx)	Brick/ concrete	Good	Rectangular	-	Deep slow moving water, pipe crossings US act as trash screen prior to structure
68	Purwell	Hitchin	Grove Road	519093,230402	Culvert	Circular	1200mm dia	Concrete	Good	Trapezoidal 4.5m wide, deep water	-	DS of confluence of second W/C that needs to be considered when assessing flood risk at this location
69	Hiz	Hitchin	Grove Road	519093,230402	Culvert	Arch	1.2h x 1.2w (approx)	Concrete	Good	Trapezoidal, concrete	-	Flows parallel to Grove Road
70	Hiz	Hitchin/ Ickleford	Arlesley Road	518655,232387	Bridge	Arch	3 x 1.2h x2.0w (approx)	Steel and masonry	Fair	-	Trapezoidal, shallow and wide (approx 15m)	No access US of structure
71	Hiz	Hitchin/ Ickleford	Ickneild Close	518450,231720	Footbridge	Rectangular	2.0h x 9.0w (approx)	Steel	Good	Rectangular, shallow and wide (approx 5-6m wide)	Rectangular, shallow and wide (approx 5-6m wide)	Insignificant in terms of backwater effect in high flows
72	Hiz	Hitchin/ Ickleford	DS Ickneild Close	518432,231695	Footbridge	Rectangular	2.0h x 10.0w (approx)	Steel and wood	Fair	Rectangular, shallow and wide (approx 6-8m wide)	Rectangular, shallow and wide (approx 6-8m wide)	Insignificant in terms of backwater effect in high flows
73	Purwell	Hitchin	DS Purwell/ Oughton confluence	518402,231405	Pipe Crossing	Circular	350mm dia	Steel (?)	Poor	Trapezoidal, approx 3.0m wide	Trapezoidal, approx 3.0m wide	Not significant in hydraulic modelling terms
74	Purwell	Hitchin	US dismantled railway adjacent to metal workshop	518397,231420	Access Bridge	Rectangular	2.2h x 4.0w (approx)	Concrete	Poor	No access	Trapezoidal, wide, pools and riffles	Not significant in terms of obstructing high flows
75	Oughton	Hitchin	Arlesley Road	518321,231287	Bridge (US face)	Arch	2x 0.5h x 1.5w	Concrete/ Brick	Poor	No access	Trapezoidal, wide	Narrow spanning arches, risk of blockage
75	Oughton	Hitchin	Arlesley Road	518321,231287	Bridge (DS face)	Arch	0.6h x 1.5w	Concrete	Poor	No access	Trapezoidal, wide	Narrow spanning arches, risk of blockage
76	Oughton	Hitchin	Bedford Road A600	517837,230982	Bridge	Rectangular	1.0h x 3.0w (approx)	Concrete	Fair	Trapezoidal, wide, approx 6m	No access	Water level approx 350mm at time of site visit. 4 pipe crossings US of bridge, 150-350mm dia. At risk of blockage.
77	Oughton	Hitchin	US Bedford Road A600	517700,230910	Gauging Weir	Rectangular	20m long x 3m wide (approx)	Concrete	Good	-	Trapezoidal, approx 3.0m wide	Potential calibration point for any hydraulic modelling of this watercourse
78	Oughton	Hitchin	Westmill Lane	517150,230710	Access Bridge	Arch	0.95h x 1.5w (approx)	Concrete	Poor	-	Trapezoidal, approx 3.0m wide	Bridge covered by fallen tree and at risk of complete blockage
79	Oughton	Hitchin	Railway line adjacent to Cadwell Lane	518975,230477	Railway Bridge	Arch	No access to assess size	Concrete	Unable to determine	-	-	Assumed to be sufficient span to pass flow without constriction
80	Pix Brook	Letchworth	Adjacent to Rushby Mead	522200,232325	Culvert	Circular	2x 1200mm dia	Concrete	Good	No access	Trapezoidal, deep channel	One culvert 85% blocked
81	Pix Brook	Letchworth	Adjacent to Rushby Mead	522188,232347	Weir	Rectangular	520mm wide x 300 long	Concrete	Good	Trapezoidal, deep channel	Trapezoidal, deep channel	Outfall structure to left bank US of this structure
82	Pix Brook	Letchworth	Adjacent to Rushby Mead	522165,232417	Stepped weir	Rectangular	520mm wide x 300 long	Concrete	Good	-	Deep rectangular concrete channel	Outlet structure to left bank DS of structure
83	Pix Brook	Letchworth	Adjacent to Rushby Mead	522165,232550	Culvert	Circular	1200mm dia	Concrete	Good	Deep rectangular concrete channel	-	25% blocked at time of site visit
84	Pix Brook	Letchworth	Adjacent to Ickneild Way	522073,233168	Culvert	Circular	1200mm dia	Concrete	Good	-	Deep rectangular concrete channel	Culverted from here to Norton common.
85	Pix Brook	Letchworth	Norton Common	521987,233255	Culvert	Circular	1200mm dia	Concrete	Good	Deep rectangular concrete channel	-	40% blocked at time of site visit. Weir like structure US of culvert entrance. Outfall to right bank.
86	Pix Brook	Letchworth	Norton Common	521840,233325	Footbridge	Rectangular	0.8h x 1.5w	Concrete and wood	Good	-	Deep rectangular concrete channel	Tributary of Pix Brook
87	Pix Brook	Letchworth	Norton Common	521740,233292	Culvert	Circular	900mm dia	Concrete	Poor	Trapezoidal, concrete	-	Tributary of Pix Brook, insignificant in terms of backwater effect in high flows
88	Pix Brook	Letchworth	Norton Common	521740,233292	Footbridge	Rectangular	1.5h x 3.0w	Concrete	Good	Channel bed silted	Channel bed silted	Weir like structure DS of culvert
89	Pix Brook	Letchworth	Norton Common	521822,233342	Culvert	Circular	1200mm dia	Concrete	Good	-	Channel bed silted	-
90	Pix Brook	Letchworth	Norton Common	521762,233322	Footbridge	Rectangular	1.5h x 6.0w	Concrete and Steel	Good	Trapezoidal, 1.2m wide (approx)	Trapezoidal, 1.2m wide (approx)	-
91	Pix Brook	Letchworth	Norton Common	521698,233280	Footbridge	Rectangular	Unable to determine	Concrete	Poor	-	-	Tributary of Pix Brook, US channel bed completely silted up
92	Pix Brook	Letchworth	Cowslip Hill	521410,233277	Bridge	Rectangular	3x 1.0h x 1.5w	Concrete	Good	Trapezoidal with moving sand bed	-	Only central opening conveying flow, other 2 openings 50% blocked
93	Pix Brook	Letchworth	Norton Common	521535,233290	Footbridge	Rectangular	1.5h x 6w	Concrete	Good	Trapezoidal, natural	Trapezoidal, natural	Debris piled US of bridge
94	Pix Brook	Letchworth	Wilbury Road	520980,233467	Bridge	Rectangular	3x 1.2h x 2.0w	Concrete	Good	Rectangular wide with moving sand bed	-	One opening blocked by debris at time of site visit
95	Ditch in Golf Course	Hitchin	Adjacent to Willian Road	521200,230365	Culvert	Circular	600mm dia	Concrete	Good	-	-	Stone bed, not significant in flood risk terms
96	Ditch in Golf Course	Hitchin	Adjacent to Willian Road	521240,230435	Culvert	Circular	1200mm dia (approx)	Concrete	Good	-	Trapezoidal	Not significant in flood risk terms
97	Ippollittis Brook	Hitchin	US Hitchin Road	520335,228725	structure	Arch conduit	0.6h x 2.0w (approx)	Concrete/ masonry	Good	Trapezoidal, 2m wide bed approx	-	Little flow at time of site visit, potential for overbank flow in to gardens at high flows
98	Ippollittis Brook	Hitchin	DS of railway line	520345,228757	Footbridge	Arch conduit	0.6h x 2.0w (approx)	Concrete/ masonry	Poor	Trapezoidal, 2-3m wide bed approx	-	Potential for overbank flow in to gardens at high flows
99	Ippollittis Brook	Hitchin	DS Stevenage Road A602	519573,228198	Weir	Rectangular, sharp crested	0.4h x 0.5w (approx)	Steel	Good	-	Rectangular with bed width approx 1.2m	Partially blocked with metal debris, purpose of weir unclear
100	Ippollittis Brook	Hitchin	Stevenage Road A602	519528,228155	Culvert	Circular	1200mm dia (approx)	Concrete	Good	No access	Rectangular, bed width 3-3.5m	Weir structure approx 5m US of culvert and has caused ponding DS of culvert. 3 outfalls but no flow at time of site visit
101	Ippollittis Brook	Hitchin	Waterdell Lane	519485,227083	Culvert	Arch	0.5h x 0.9w (approx)	Concrete/ masonry	Poor	No access	Rectangular, bed width 3-3.5m	70% blocked with debris at time of site visit
102	Ippollittis Brook	Hitchin	DS Waterdell Lane	519455,227267	Culvert	Arch	3x 0.5h x 1.2w (approx)	Concrete/ steel	Good	-	-	Channel goes to ground at this location, reappearing at the wetland US of structure. Historical information may be required for this structure
103	Ippollittis Brook	Hitchin	Sperberry Hill	519573,226603	Culvert	Arch	0.5h x 1.0w (approx)	Concrete	Poor	No access	Wetland area	80% blocked at time of site visit
104	Ash Brook	Hitchin	DS Stevenage Road, Little Wymondley	520822,227497	Bridge	Rectangular	1.5h x 2.0w (approx)	Concrete	Good	No access	Rectangular, 4-6m wide, deep	Risk of flooding minimal at this location
105	Ash Brook	Hitchin	US Stevenage Road A602	520663,227447	Pipe Crossing	Circular	350mm dia (approx)	Steel	Good	-	-	Outfall structure to left bank, at risk of debris blockage
106	Ash Brook	Hitchin	Stevenage Road A602 underpass	520553,227417	Underpass	Box	3.0h x 3.0w (approx)	Concrete	Good	Rectangular, shallow	Rectangular, shallow	Limited risk of flooding in this area
107	Ash Brook	Hitchin	Access track	520105,227280	Culvert	Circular	1200mm dia (approx)	Concrete	Good	Rectangular, shallow	Rectangular, shallow	Limited risk of flooding in this area

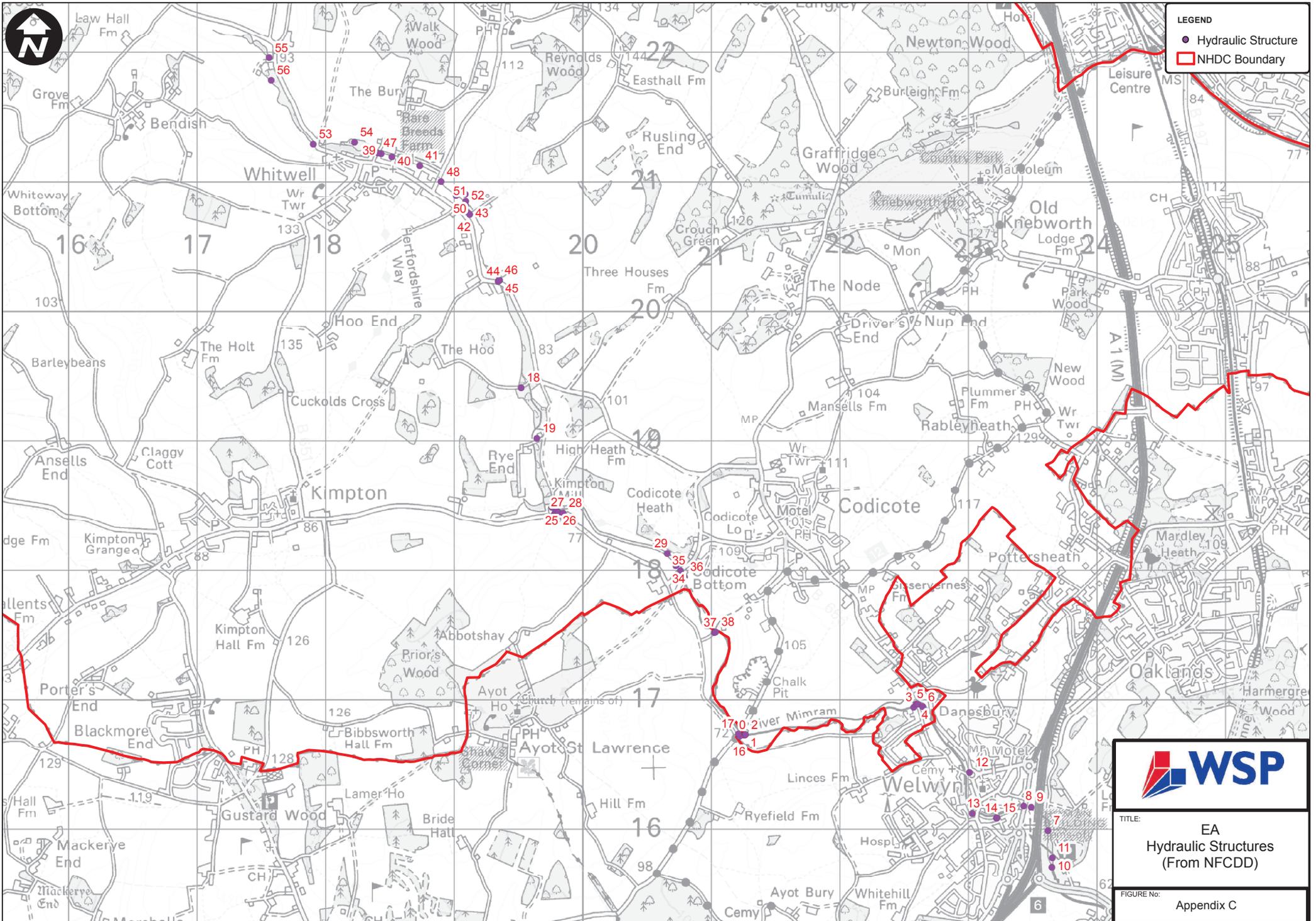
Note: Structures listed are those identified from the site walk over only. This is not a complete record due to access constraints.





Structure Number	RIVER	TOWN	LOCATION	GRID REF	STRUCTURE TYPE	STRUCTURE SHAPE	DIMENSIONS (m if not otherwise stated)	MATERIAL	CONDITION	US CHANNEL PROFILE	DS CHANNEL PROFILE	OBSERVATIONS	DATA OWNER
108	Hiz	Hitchin	Ariesley Road	519124, 230442	Bridge	Arch	1.0h x 1.7w (approx)	Brick	Good	Arch, shallow water	Arch, shallow water		Survey Solutions
109	Hiz	Hitchin	Grove Road	519126, 230437	Weir	Rectangular	2.3m wide	Brick & concrete	Unable to determine				Survey Solutions
110	Hiz	Hitchin	Grove Road Railway Crossing	519031, 230303	Bridge	Arch	8.0h x 9.1w (approx)	Brick	Good	Arch, long, very wide	Arch, long, very wide		Survey Solutions
111	Hiz	Hitchin	Grove Road	518939, 230125	Footbridge	Rectangular	3.0m wide (approx)	Concrete & Steel	Good	New structure	New structure		Survey Solutions
112	Hiz	Hitchin	Banroft Road	518790, 229770	Weir	Arch	2.2m wide, arch	Brick	Unable to determine			Safety grate present	Survey Solutions
113	Hiz	Hitchin	Winbrush road	518685, 229494	Bridge	Rectangular	5m wide (approx)	Concrete	Good				Survey Solutions
114	Hiz	Hitchin	Sainsbury's car park	518652, 229363	Weir	Rectangular	4.6m wide (approx)	Concrete	Unable to determine				Survey Solutions
115	Hiz	Hitchin	Portmill Lane - Hermitage Road	518625, 229230	Bridge	Arch	2m wide opening (approx)	Brick	Fair			Shallow opening	Survey Solutions
116	Hiz	Hitchin	Portmill Lane	518591, 229191	Bridge	Arch	2.3m wide opening	Brick	Good		Large grate at opening		Survey Solutions
117	Hiz	Hitchin	Market	518567, 229141	Bridge	Arch	3 openings (2.3 and 1.8m wide)	Brick	Good		Ornamental Pond		Survey Solutions
118	Hiz	Hitchin	Market	518533, 229057	Bridge	Arch	3 openings (2.3 and 1.8m wide)	Brick	Good				Survey Solutions
119	Hiz	Hitchin	Biggin Lane	518530, 229012	Weir	Rectangular	5.5m wide (approx)	Concrete	Fair				Survey Solutions
120	Hiz	Hitchin	Bridge Street	518445, 228855	Footbridge	Arch	2.68m opening	Brick	Good				Survey Solutions
121	Hiz	Hitchin	Priony grounds	518344, 228782	Bridge	Arch	9m wide with 2 No. 3.5m openings	Stone	Good				Survey Solutions
122	Hiz	Hitchin	A602 Parkway	518184, 228616	Bridge	Arch	12.5m wide (approx) at water level	Flint	Good				Survey Solutions
123	Hiz	Hitchin	Charlton	517882, 228111	Bridge	Rectangular	6m wide	Concrete	Fair				Survey Solutions
124	Hiz	Hitchin	Charlton	517838, 228009	Bridge	Arch	1m wide opening (approx)	Brick	Fair				Survey Solutions
125	Ivel	Baldock	-	523023, 235762	Bridge	Arch	3.7m wide, opening 0.7m	Brick	-	-	-	-	Survey Solutions
126	Ivel	Baldock	Radwell	523029, 235759	Bridge	Arch	6.6m wide, 2.9m widest opening	Brick & concrete	Fair		High water level at opening		Survey Solutions
127	Ivel	Baldock	Norton Bury Lane	523622, 235113	Bridge	Arch	3.86m, 2.76 opening	Brick	Good	Double arch entrance	Double arch entrance	slow moving water	Survey Solutions
128	Ivel	Baldock	A1(M)	523884, 235048	Bridge	Arch	2.87m opening	Concrete	Fair	Large arched opening	Large arched opening	Corrugated archway	Survey Solutions

ASSETTYPE	MAINTAINER	ASSETPROTE	ASSETCOMME	ASSETDESCR	ASSETLOCAT	DEFENCEREF	REACHREFER	WATERCOURSRECOMMEN	GRIDREFERE	DATAOWNER	SPATIALDAT
0 non-flood defence structure	private	fluvial	Arched ornamental Footbridge constructed of timber on 2 steel beams spanning onto cast in situ concrete abutments with service crossing.	Footbridge.	Pulmer Water Cottage, US of Fuling Mill.	0624747M0303R05		3 47M	TL2125416730	Environment Agency	unchecked
1 non-flood defence structure	private	fluvial	ASSET NO LONGER EXISTS - REMOVE FROM DATABASE.	Pulmer Cottage Weir	Access front yard of cottage	0624747M0303R01		3 47M	TL2126616730	Environment Agency	unchecked
2 non-flood defence structure	private	fluvial	Basic timber deck footbridge with timber handrail. Structure in advanced state of decay and requires remedial works. Noticeable leak through LB US wing wall. Failure would seriously affect US water level, releasing large volume. OWNER: Channel recently part filled adq to sluice.	Footbridge.	223m US of Fuling Mill embankment.	0624747M0303R05		3 47M	TL2126616730	Environment Agency	adequate
3 flood defence structure	private	fluvial	Structure in advanced state of decay and requires remedial works. Noticeable leak through LB US wing wall. Failure would seriously affect US water level, releasing large volume. OWNER: Channel recently part filled adq to sluice.	Fuling Mill By Pass Sluice	through Mill car park	0624747M0303R01		3 47M	Repair LB wall. CHECK FILL. TL2257616943	Environment Agency	unchecked
4 non-flood defence structure	private	fluvial	Timber deck foot bridge on abutments with timber handrails. Steel I beams x 2 span channel.	Footbridge.	60m US of the confluencewith the main channel	0624747M03031R02		3 47M	TL2259316971	Environment Agency	unchecked
5 non-flood defence structure	local authority	fluvial	In situ concrete ford with tarmac crest. Submerged pipes below.	Ford.47M0303CU12 FULING MILL LANE.	FULLING MILL LANE, WELWYN, HERTS	0624747M0311R01		3 47M	TL2262816968	Environment Agency	good
6 non-flood defence structure	Environment Agency	fluvial	Fixed crest concrete weir gauging station with concrete and brick channel sides. Crest of weir has steel capping. Telemetry hut on L.B. LENGTH =2.6m WIDTH = 5.6m OVERALL HEIGHT OF CROSSING STRUCTURE = 0.2m OVERALL LENGTH OF CROSSING STRUCTURE = 6m XD000 LUB-CD. 2 Steel beams on pre-cast concrete abutments. Timber slopes as deck.	Fuling Mill RFGS.	D/S of Road Ford.	0624747M03031R01		3 47M	Site requires fencing/galling to stop children from playing on exposed RDS's that hold service pipes.	Environment Agency	unchecked
7 flood defence structure	private	fluvial	OWNER: HA (HERTS) INSPDISTR: Northern Height not known Width 5.1m Number of spans 1 XD097 LUB+CD Herts ID 183.	Foot bridge, 6HERRARDSWOODS SCHOOL	SHERRARDSWOODS SCHOOL, WELWYN, HERTS	0624747M0303R01		3 47M	TL2365315780	Environment Agency	good
8 flood defence structure	local authority	fluvial	OWNER: HA (HERTS) INSPDISTR: Northern Height not known Width 5.1m Number of spans 1 XD097 LUB+CD Herts ID 183.	47M0303CU06 MMRAM BRIDGE CU	MMRAM BRIDGE, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
9 culverted channel	private	fluvial	OWNER: HA (HERTS) INSPDISTR: Northern Height not known Width 5.1m Number of spans 1 XD097 LUB+CD Herts ID 183.	47M0303CU07 A1M CULVERT	UNDER THE A1M, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
10 non-flood defence structure	private	fluvial	Brick arch culvert.	Brick arch culvert.	198m US of A1000	0624747M0303R05		3 47M	TL2365115705	Environment Agency	adequate
11 flood defence structure	private	fluvial	Stoplog sluice added at Right bank end of existing Stone overall structure, seemingly to provide control of upstream water level. Overall condition good slight wear to blockwork (cosmetic). Scour pool deep to the D/S. Heavy silt US.	Tewin Water School Weir	Behind Tennis Courts and science block	0624747M0303R01		3 47M	TL2365315780	Environment Agency	good
12 culverted channel	local authority	fluvial	OWNER: HA (HERTS) INSPDISTR: Northern Height not known Width 5.1m Number of spans 1 XD097 LUB+CD Herts ID 183.	47M0303CU03 KIMPTON ROAD CUL	KIMPTON ROAD, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
13 culverted channel	local authority	fluvial	2no. brick arch culverts with gravel bed. Centre culvert 2.5m wide x 1m high. 2 outer 1.2m wide x 0.75m high. Spalling and open joints on piers/abutments. Some cracking and mortar loss internally. Some blockwork missing to do side. XD0302 LUB+AB Bridge	47M0303CU04 HIGH STREET CULV	HIGH STREET, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
14 culverted channel	local authority	fluvial	2no. brick arch culverts - 2.5m wide x 1m high on RHS & 0.75m x 1m brick barrel culvert on LHS. Some minor cracks and bricks & mortar missing internally. 2 no. service crossings through culvert. XD0302 LUB+AB	47M0303CU05 MILL LANE CULVERT	MILL LANE, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
15 flood defence structure	private	fluvial	Recently refurbished by owner. LUB-CD Owner now Mr. Ian Fraser. Telephone number remains unchanged.	Mill House Weir	In courtyard of Mill House	0624747M0303R01		3 47M	Environment Agency	unchecked	
16 non-flood defence structure	private	fluvial	Timber deck, hand rail and beams spanning on to masonry abutments.	Foot bridge.	St Albans Road foot bridge	0624747M0401R02		4 47M	TL2121916718	Environment Agency	good
17 culverted channel	local authority	fluvial	Pre-cast concrete pipe under S1 Albans road with cast in situ concrete head walls to both sides.	47M0303CU01 ST ALBANS ROAD C	ST ALBANS ROAD, CODDICOTE, HERTS	0624747M0401R01		4 47M	TL2121016740	Environment Agency	good
18 culverted channel	private	fluvial	OWNER: RFP INSPDISTR: Northern Height not known Width 5.1m Number of spans 1 XD097 LUB+CD Herts ID 183.	47M0303CU08 SLAUGHTER HOUSE	SLAUGHTER HOUSE CULVERT, HOO PARK	0624747M0413R01		4 47M	TL1951919411	Environment Agency	unchecked
19 culverted channel	private	fluvial	Cast in situ conc access bridge with centre pier and tubular fencing to parapet. (Previous comments: INSPDISTR: Northern Height not known Width 5.1m Number of spans 1 XD097 LUB+CD Herts ID 183.)	47M0303CU05 RYE END COTTAGES	RYE END COTTAGES, CODDICOTE, HERTS	0624747M0403R05		4 47M	TL1964019020	Environment Agency	good
20 flood defence structure	private	fluvial	Recent (mid 1990's) oak dropbridge structure installed, as replacement to original. Concrete wing walls in good condition no sign of scour. Helps retain water level in pond. OWNER: RFD XD030 LUB-CD	47M0303CU06 MMRAM BRIDGE CU	MMRAM BRIDGE, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
21 non-flood defence structure	private	fluvial	Helps retain water level in pond. OWNER: RFD XD030 LUB-CD	47M0303CU06 MMRAM BRIDGE CU	MMRAM BRIDGE, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
22 flood defence structure	private	fluvial	Cast in situ concrete deck with no abutments or handrail.	47M0303CU06 MMRAM BRIDGE CU	MMRAM BRIDGE, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
23 non-flood defence structure	private	fluvial	Masonry red brick WING walls, recently refurbished US & D/S. Stone weir crest is uneven in places through natural wear. OWNER: No charge. XD0301 LUB+CD	47M0303CU06 MMRAM BRIDGE CU	MMRAM BRIDGE, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
24 culverted channel	local authority	fluvial	Timber arch bridge with handrailing spanning onto masonry abutments.	47M0303CU06 MMRAM BRIDGE CU	MMRAM BRIDGE, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
25 culverted channel	private	fluvial	OWNER: RFP INSPDISTR: Northern Height not known Width 5.1m Number of spans 1 XD097 LUB+CD Herts ID 183.	47M0303CU06 MMRAM BRIDGE CU	MMRAM BRIDGE, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
26 culverted channel	local authority	fluvial	Cast in situ concrete box culvert with headwalls and tubular fencing to parapet walls.	47M0303CU06 MMRAM BRIDGE CU	MMRAM BRIDGE, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
27 non-flood defence structure	private	fluvial	OWNER: RFP INSPDISTR: Northern Height not known Width 5.1m Number of spans 1 XD097 LUB+CD Herts ID 183.	47M0303CU06 MMRAM BRIDGE CU	MMRAM BRIDGE, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
28 non-flood defence structure	private	fluvial	Pre-cast concrete deck spanning pre-cast concrete abutments. Steel handrailing to parapet.	47M0303CU06 MMRAM BRIDGE CU	MMRAM BRIDGE, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
29 flood defence structure	private	fluvial	Timber footbridge with handrail spanning onto cast in situ conc abutments.	47M0303CU06 MMRAM BRIDGE CU	MMRAM BRIDGE, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
30 flood defence structure	private	fluvial	25mm deep boards 1.5m in length are too thin and subsequently boards bow under the water pressure. Masonry in US and D/S wing walls crumbling. Owner/inspector has plans for improvement to river and structures. 1. No change. XD0301 LUB-CD	47M0303CU06 MMRAM BRIDGE CU	MMRAM BRIDGE, WELWYN, HERTS	0624747M0303R01		3 47M	Environment Agency	unchecked	
31 culverted channel	private	fluvial	Brick arch culvert with brick wingwalls. Blockwork to culvert in good condition for age. Slight cracking to D/S headwall. Faced by 100 mm dia from US of mill. XD091 LUB-CD. CULVERT FORMED OLD MILL RACE NOW DEPLETED OFF BUT HAS 100mm DIA. SUBMERGED PIPES TH	47M0401CU01 CODDICOTE MILL CUL	CODDICOTE MILL, CODDICOTE, HERTS	0624747M0402R02		4 47M	TL2071018090	Environment Agency	unchecked
31 flood defence structure	private	fluvial	Sluice no longer exists. (Previous comments: overall structure is serviceable despite tatty in appearance. Masonry in D/S wing wall crumbling. Small scale repairs would preserve integrity of structure).	47M0401CU01 CODDICOTE MILL CUL	CODDICOTE MILL, CODDICOTE, HERTS	0624747M0402R02		4 47M	Environment Agency	unchecked	
32 flood defence structure	private	fluvial	Masonry weir with integral knoth for stop logs (removed) serving no real purpose due to US and D/S levels being the same.	47M0401CU01 CODDICOTE MILL CUL	CODDICOTE MILL, CODDICOTE, HERTS	0624747M0402R02		4 47M	TL2073018049	Environment Agency	good
33 non-flood defence structure	private	fluvial	Steel I beams with cast in situ concrete deck spanning onto cast in situ concrete abutments with a timber hand rail.	47M0401CU01 CODDICOTE MILL CUL	CODDICOTE MILL, CODDICOTE, HERTS	0624747M0402R02		4 47M	TL2073018049	Environment Agency	good
34 non-flood defence structure	private	fluvial	Steel I beams with cast in situ concrete deck spanning onto cast in situ concrete abutments with a timber hand rail.	47M0401CU01 CODDICOTE MILL CUL	CODDICOTE MILL, CODDICOTE, HERTS	0624747M0402R02		4 47M	TL2073018049	Environment Agency	good
35 flood defence structure	private	fluvial	Pre-cast concrete fat deck spanning onto masonry abutments, and concrete coping to parapet walls.	47M0401CU02 HEATH HILL CULVE	HEATH HILL, CODDICOTE, HERTS	0624747M0402R01		4 47M	TL2076018000	Environment Agency	good
36 non-flood defence structure	private	fluvial	Weir constructed of square paving slabs.	47M0401CU02 HEATH HILL CULVE	HEATH HILL, CODDICOTE, HERTS	0624747M0402R01		4 47M	TL2076018000	Environment Agency	good
37 non-flood defence structure	private	fluvial	Cast in situ concrete ford for access to pumping station.	47M0401CU02 HEATH HILL CULVE	HEATH HILL, CODDICOTE, HERTS	0624747M0402R01		4 47M	TL2079117949	Environment Agency	good
38 non-flood defence structure	private	fluvial	Timber deck, hand rail and beams spanning onto bagwork abutments.	47M0401CU02 HEATH HILL CULVE	HEATH HILL, CODDICOTE, HERTS	0624747M0402R01		4 47M	TL2102417320	Environment Agency	good
39 flood defence structure	Environment Agency	fluvial	Fixed crest weir with concrete channel sides Whitwell gauging station.	47M0401CU02 HEATH HILL CULVE	HEATH HILL, CODDICOTE, HERTS	0624747M0402R01		4 47M	TL2103417322	Environment Agency	good
40 flood defence structure	private	fluvial	Timber footbridge resting on concrete abutments 2x telegraph pole/briar stak deck braided timber handrail D/S	47M0401CU02 HEATH HILL CULVE	HEATH HILL, CODDICOTE, HERTS	0624747M0402R01		4 47M	TL2076018000	Environment Agency	good
41 non-flood defence structure	private	fluvial	Brick arched bridge, haunched with cast in situ concrete serving as access to horse field.	47M0401CU02 HEATH HILL CULVE	HEATH HILL, CODDICOTE, HERTS	0624747M0402R01		4 47M	TL2076018000	Environment Agency	good
42 non-flood defence structure	private	fluvial	Steel galvanised tubes spanning onto cast in situ concrete abutments with timber deck and handrail.	47M0401CU02 HEATH HILL CULVE	HEATH HILL, CODDICOTE, HERTS	0624747M0402R01		4 47M	TL2076018000	Environment Agency	good
43 culverted channel	private	fluvial	CULVERT SUBMERGED. D/S BRICK ARCH 1m WIDE AND INVERT TO SOFFIT 0.5m. US BRICK HEADWALL. LB BRICK WINGWALL & R/W TIMBER REINFORCED D/S US. 300m DIA INCOMING PIPE BRICK/WHIT CONC. HEAD WALL & WINGWALLS. XD091 LUB-CD CHANNEL WILL NEED TO BE STANKE	47M0501CU05 ROSE FARM CULVERT.	ROSE FARM, WHITWELL, HERTS.	0624747M0501R01		5 47M	TL1911820752	Environment Agency	good
44 flood defence structure	local authority	fluvial	OWNER: HA (HERTS) INSPDISTR: Northern Height not known Width 2.4m Number of spans 1 XD097 LUB-CD Herts ID 356. Invert is gravel bed.	47M0501CU05 ROSE FARM CULVERT.	ROSE FARM, WHITWELL, HERTS.	0624747M0501R01		5 47M	TL1911820752	Environment Agency	good
45 non-flood defence structure	private	fluvial	Cast in situ concrete deck spanning onto masonry abutments with timber handrails. Brickwork walls line channel.	47M0501CU05 ROSE FARM CULVERT.	ROSE FARM, WHITWELL, HERTS.	0624747M0501R01		5 47M	TL1911820752	Environment Agency	good
46 non-flood defence structure	private	fluvial	Manually operated sluice gate. Frame constructed from 1 beams with integral timber gate clasped in steel with lifting gear above.	47M0501CU05 ROSE FARM CULVERT.	ROSE FARM, WHITWELL, HERTS.	0624747M0501R01		5 47M	TL1911820752	Environment Agency	good
47 culverted channel	local authority	fluvial	OWNER: HA (HERTS) INSPDISTR: Northern Height not known Width 2.4m Number of spans 1 XD097 LUB-CD Herts ID 356. Invert is gravel bed.	47M0501CU05 ROSE FARM CULVERT.	ROSE FARM, WHITWELL, HERTS.	0624747M0501R01		5 47M	TL1911820752	Environment Agency	good
48 flood defence structure	local authority	fluvial	Brick arched culvert with brick headwalls. OWNER: HA (HERTS) INSPDISTR: Northern Height not known Width 2.4m Number of spans 1 XD097 LUB-CD Herts ID 356. Invert is gravel bed.	47M0501CU05 ROSE FARM CULVERT.	ROSE FARM, WHITWELL, HERTS.	0624747M0501R01		5 47M	TL1911820752	Environment Agency	good
49 flood defence structure	private	fluvial	Stone weir in good condition. Rebuilt by Environment Agency in mid 1990's. OWNER: No charge. XD0301 LUB-E	47M0501CU05 ROSE FARM CULVERT.	ROSE FARM, WHITWELL, HERTS.	0624747M0501R01		5 47M	TL1911820752	Environment Agency	good
50 non-flood defence structure	private	fluvial	2 steel box beams spanning onto channel side with timber deck and handrail.	47M0501CU05 ROSE FARM CULVERT.	ROSE FARM, WHITWELL, HERTS.	0624747M0501R01		5 47M	TL1911820752	Environment Agency	good
51 non-flood defence structure	private	fluvial	2 steel box beams spanning onto cast in situ conc. Abutments with timber deck and handrail.	47M0501CU05 ROSE FARM CULVERT.	ROSE FARM, WHITWELL, HERTS.	0624747M0501R01		5 47M	TL1911820752	Environment Agency	good
52 non-flood defence structure	private	fluvial	2 steel box beams spanning onto cast in situ concrete abutments with timber deck and handrail.	47M0501CU05 ROSE FARM CULVERT.	ROSE FARM, WHITWELL, HERTS.	0624747M0501R01		5 47M	TL1911820752	Environment Agency	good
53 culverted channel	local authority	fluvial	Two brick arched culvert with brick headwalls. 10m long. OWNER: HA (HERTS) INSPDISTR: Length not known Width 1.200m LUB-CD Herts ID 373. 2 pipes @ 0.600m.	47M0501CU02 LILLEY BOTTOM ROAD.	LILLEY BOTTOM ROAD, WHITWELL, HERTS.	0624747M0503R01		5 47M	TL1900212090	Environment Agency	good
54 non-flood defence structure	private	fluvial	Steel I beams spanning onto channel sides with railway sleeper decking and scaffold pole handrail to D/S side.	47M0501CU02 LILLEY BOTTOM ROAD.	LILLEY BOTTOM ROAD, WHITWELL, HERTS.	0624747M0503R01		5 47M	TL1822112106	Environment Agency	suspect
55 flood defence structure	private	fluvial	Pre-cast concrete access bridge into gas works with steel handrails	47M0501CU02 LILLEY BOTTOM ROAD.	LILLEY BOTTOM ROAD, WHITWELL, HERTS.	0624747M0503R01		5 47M	TL1755821960	Environment Agency	good
56 non-flood defence structure	private	fluvial	Timber deck, beams and deck spanning onto blockwork abutments forming steps. No handrail.	47M0501CU02 LILLEY BOTTOM ROAD.	LILLEY BOTTOM ROAD, WHITWELL, HERTS.	0624747M0503R01		5 47M	TL1900212090	Environment Agency	poor



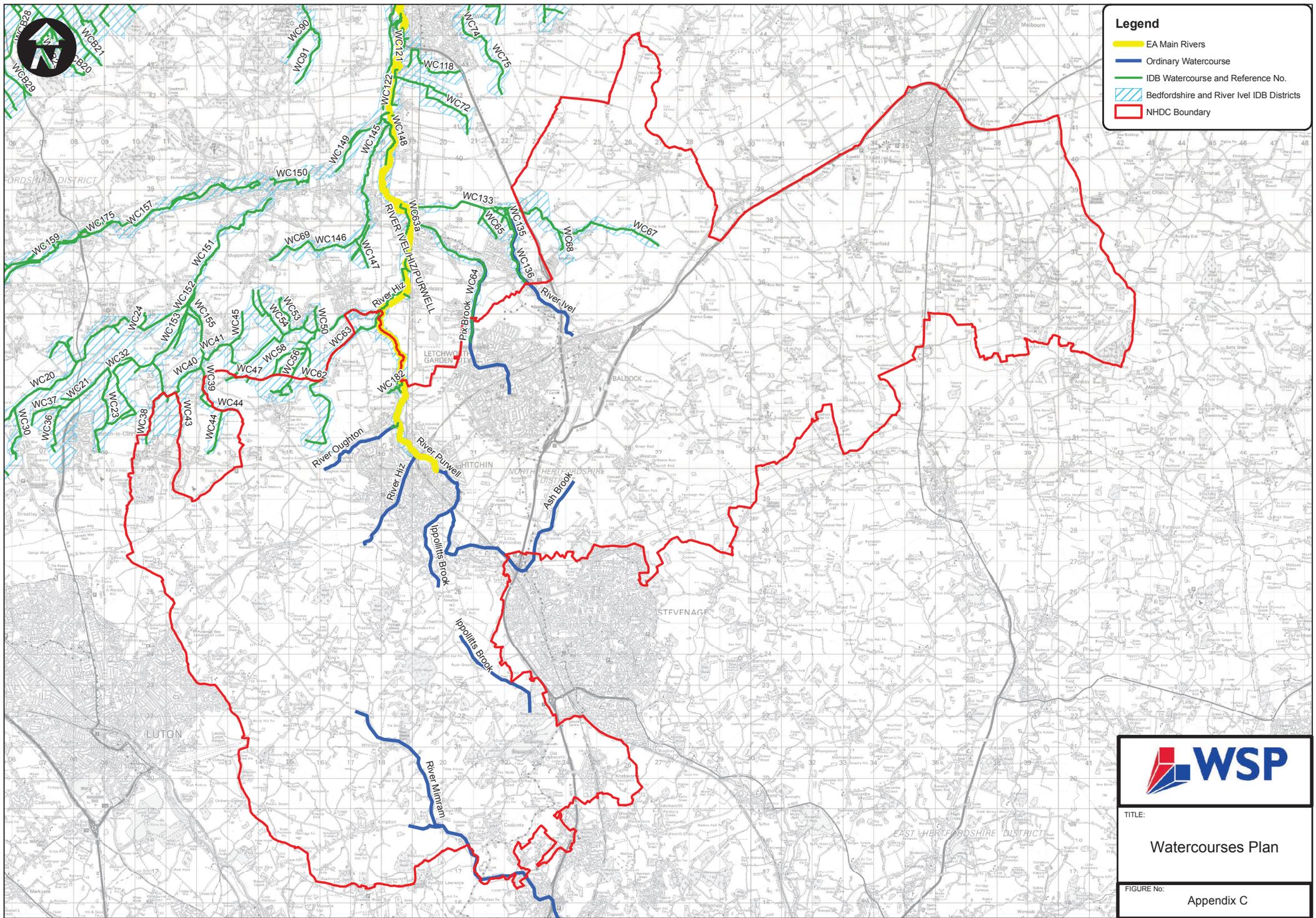
LEGEND

- Hydraulic Structure
- ▭ NHDC Boundary



TITLE: EA Hydraulic Structures (From NFCCD)

FIGURE No: Appendix C



TITLE:
Watercourses Plan

FIGURE No:
Appendix C

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0 0.5 1
 Kilometers

NTS

Historical Flooding



**Photo 1: Out of bank flows in watercourse-
Kimpton 2001**



**Photo 2- Flooding along Claggy Road/High Street-
Kimpton 2001**

Principal Flood Defence Structures



Photo 3: Pix Brook Flood Gate lateral view



Photo 4: Pix Brook Flood Gate, looking upstream



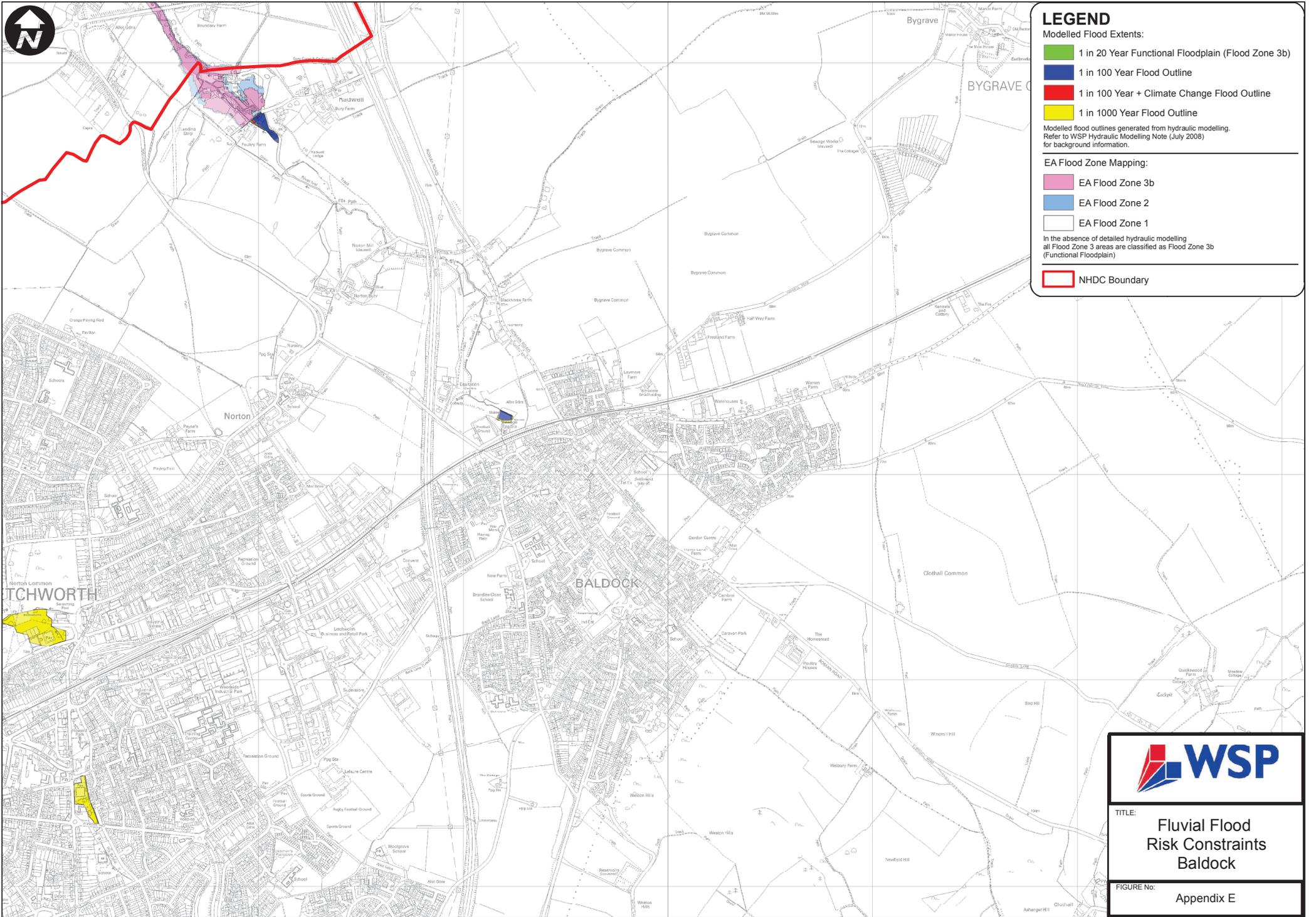
Photo 5: Pix Brook Flood Gate



Photo 6: Pix Brook Flood Gate looking downstream



Photo 7: Pix Brook reservoir upstream of Flood Gate



LEGEND

Modelled Flood Extents:

- 1 in 20 Year Functional Floodplain (Flood Zone 3b)
- 1 in 100 Year Flood Outline
- 1 in 100 Year + Climate Change Flood Outline
- 1 in 1000 Year Flood Outline

Modelled flood outlines generated from hydraulic modelling. Refer to WSP Hydraulic Modelling Note (July 2008) for background information.

EA Flood Zone Mapping:

- EA Flood Zone 3b
- EA Flood Zone 2
- EA Flood Zone 1

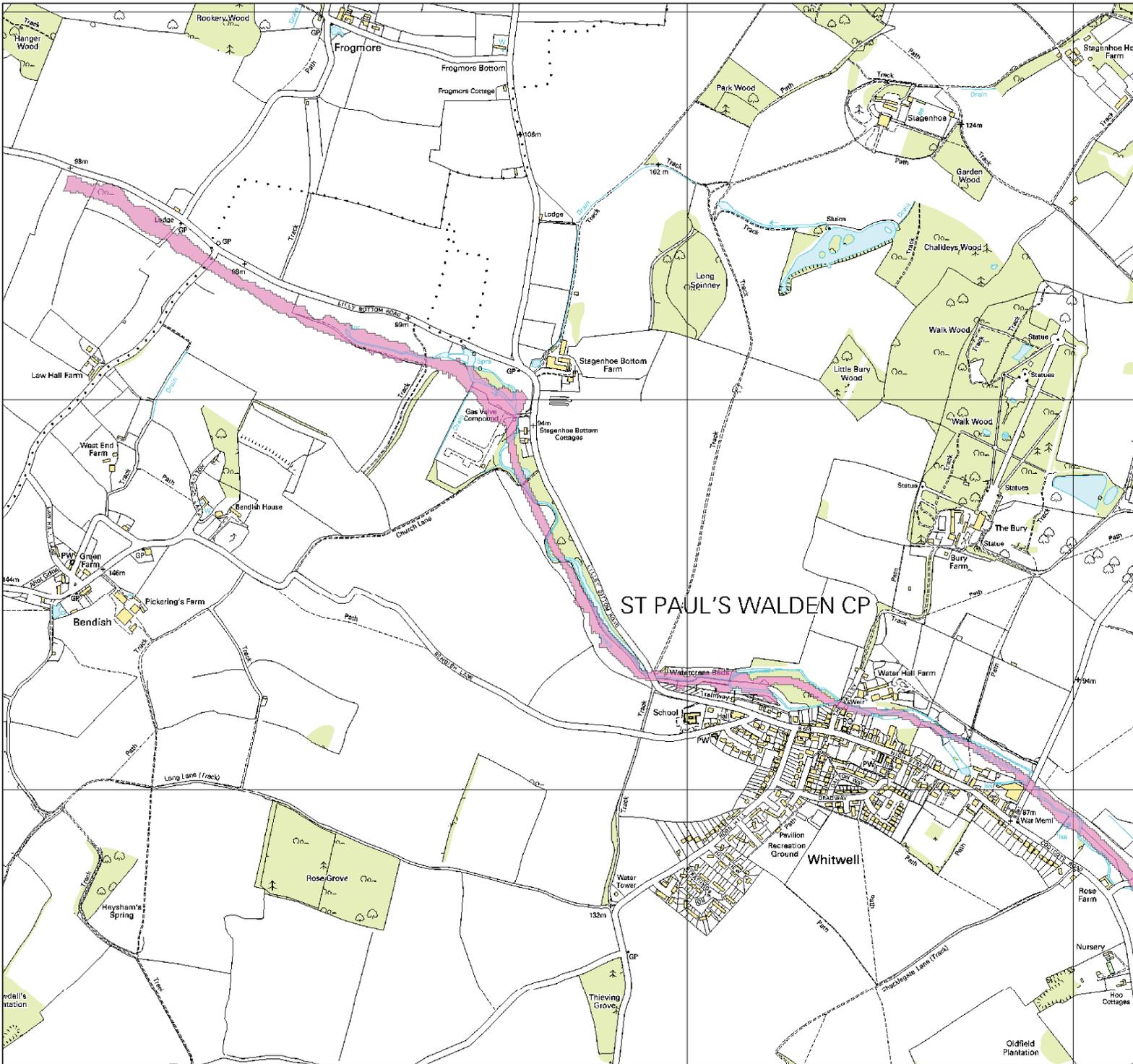
In the absence of detailed hydraulic modelling all Flood Zone 3 areas are classified as Flood Zone 3b (Functional Floodplain)

- NHDC Boundary



TITLE:
Fluvial Flood Risk Constraints Baldock

FIGURE No:
Appendix E



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 Hertfordshire
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Flood Zone 3 River Mimram

Our ref: NE9198
 Your ref: North Herts SFRA
 27 March 2006

 Flood Zone 3

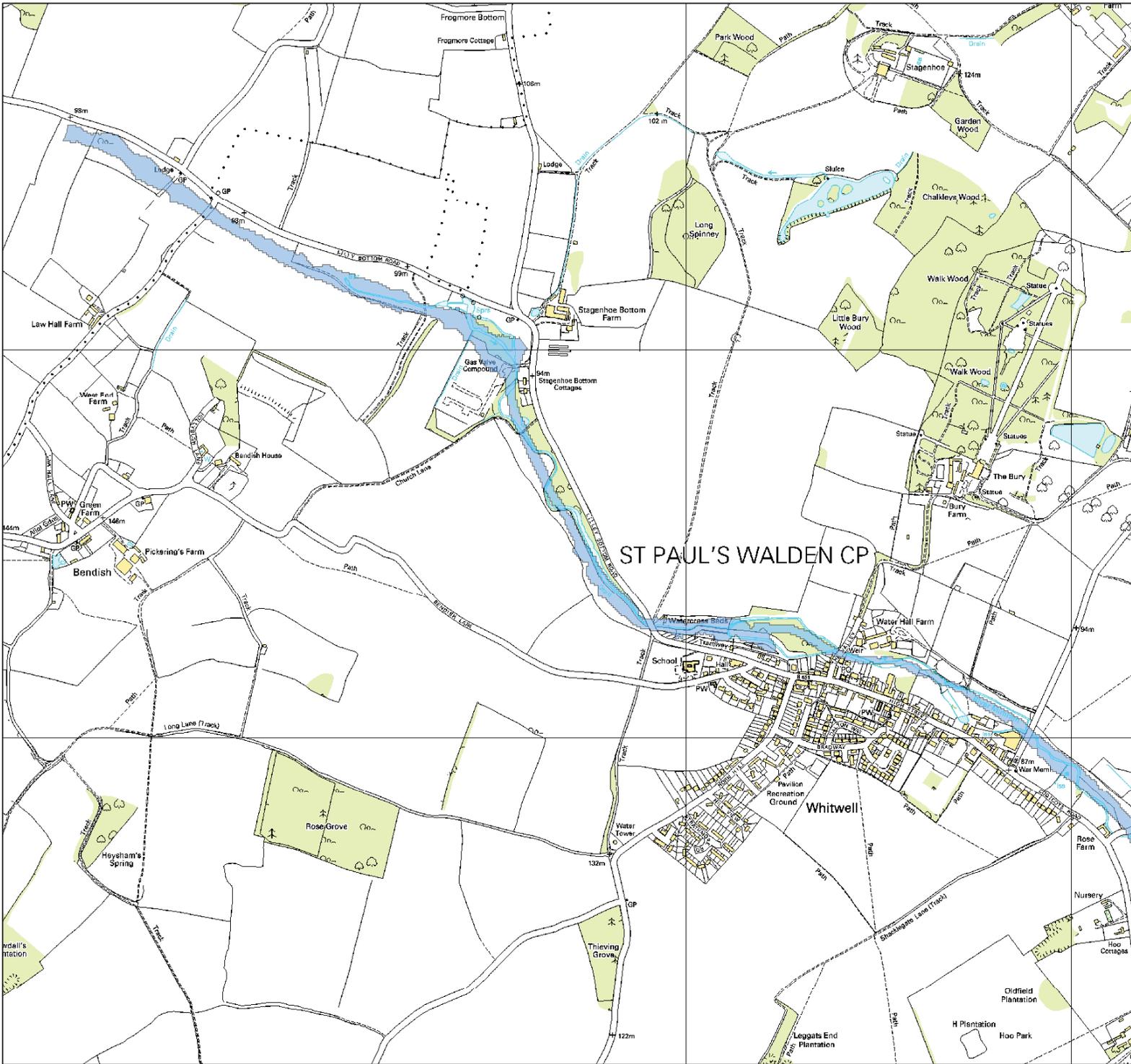


Zone 2 - represents an area with the chance of flooding in any one year between 0.1% and 1% fluvial.

Zone 3 - represents an area with the chance of flooding in any one year greater than or equal to 1% fluvial.

0 87.5 175 350 525 700 875 Metres

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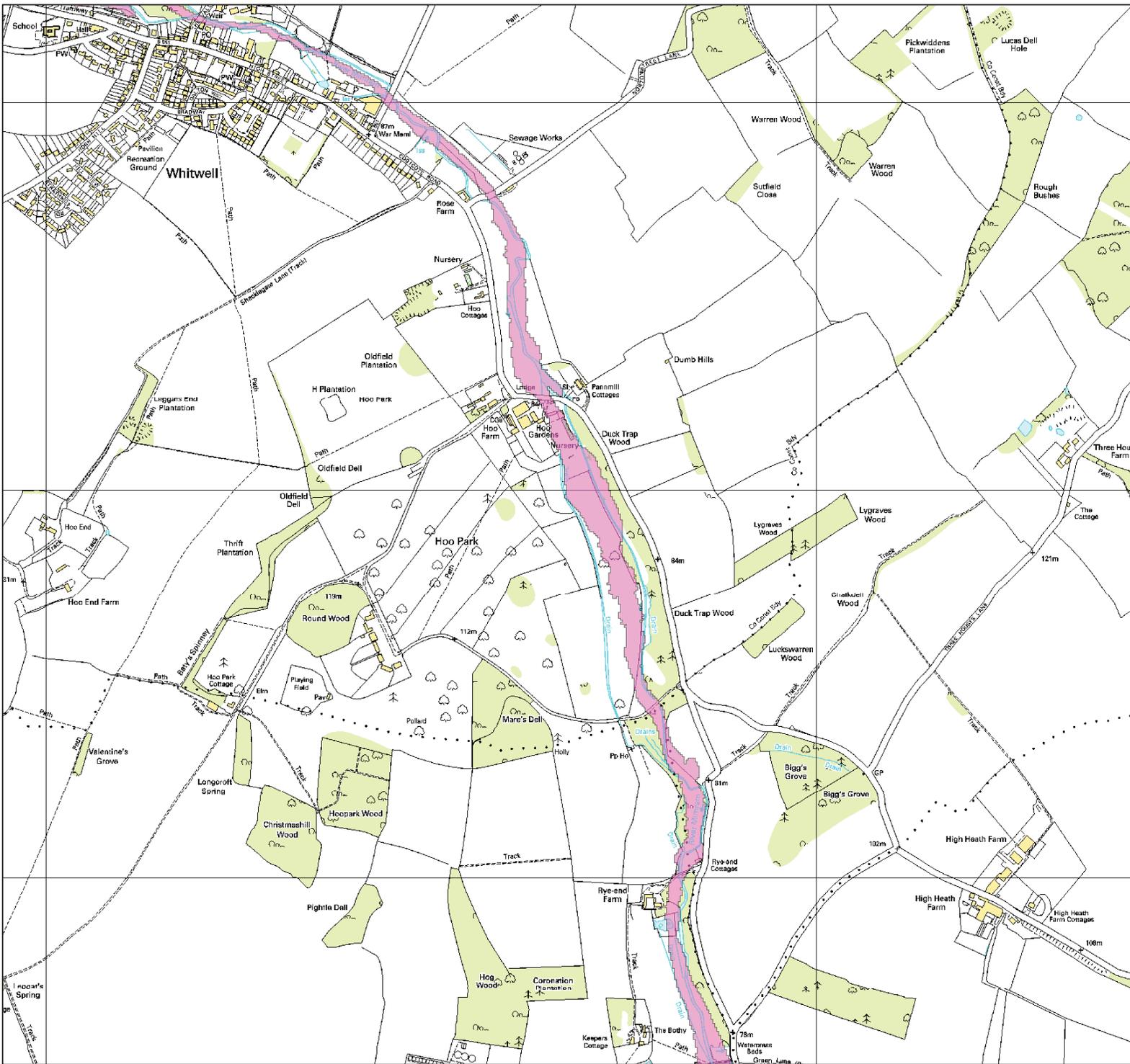


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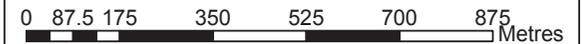
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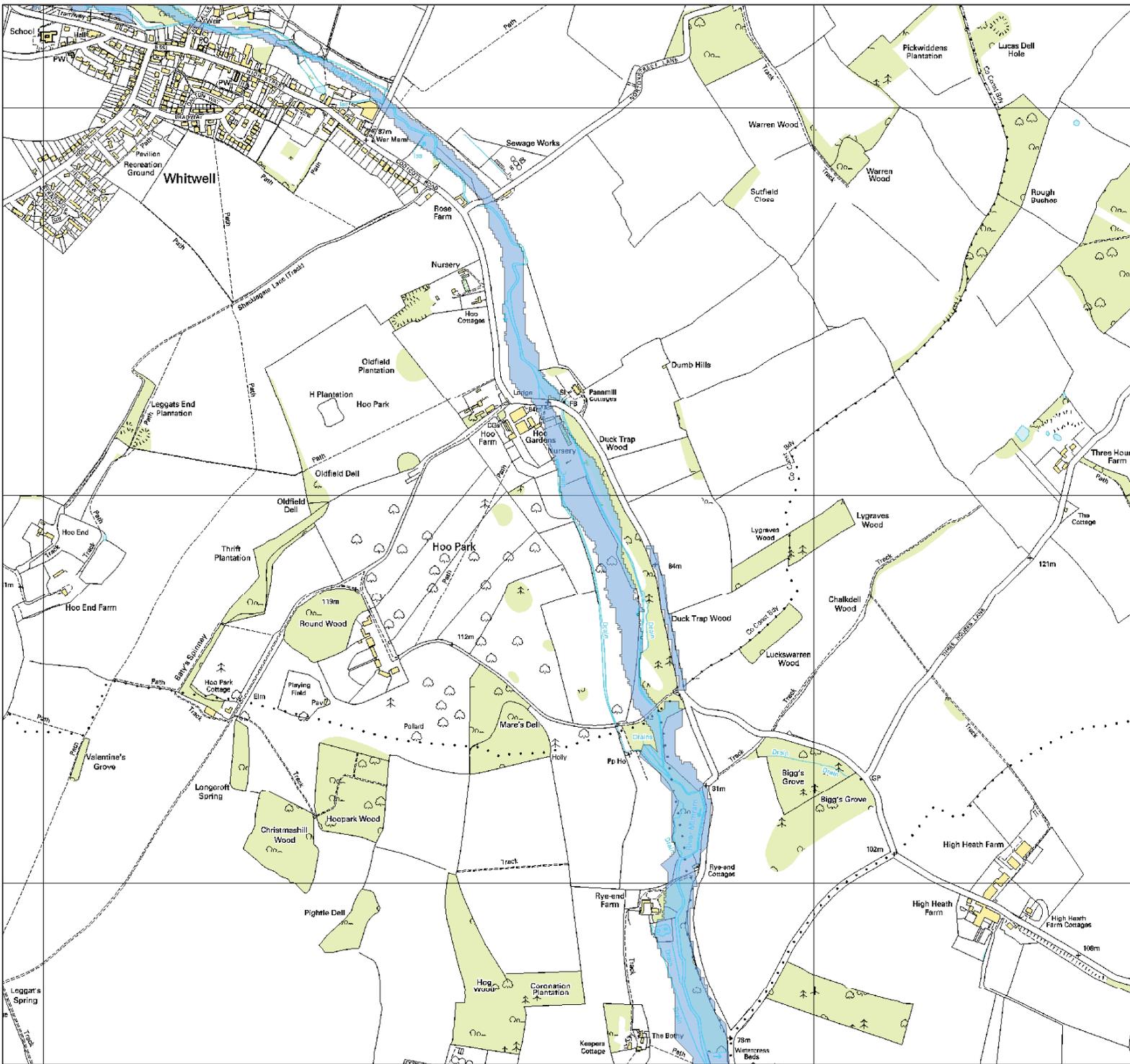


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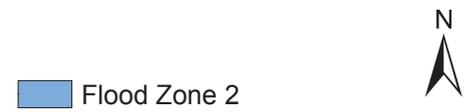
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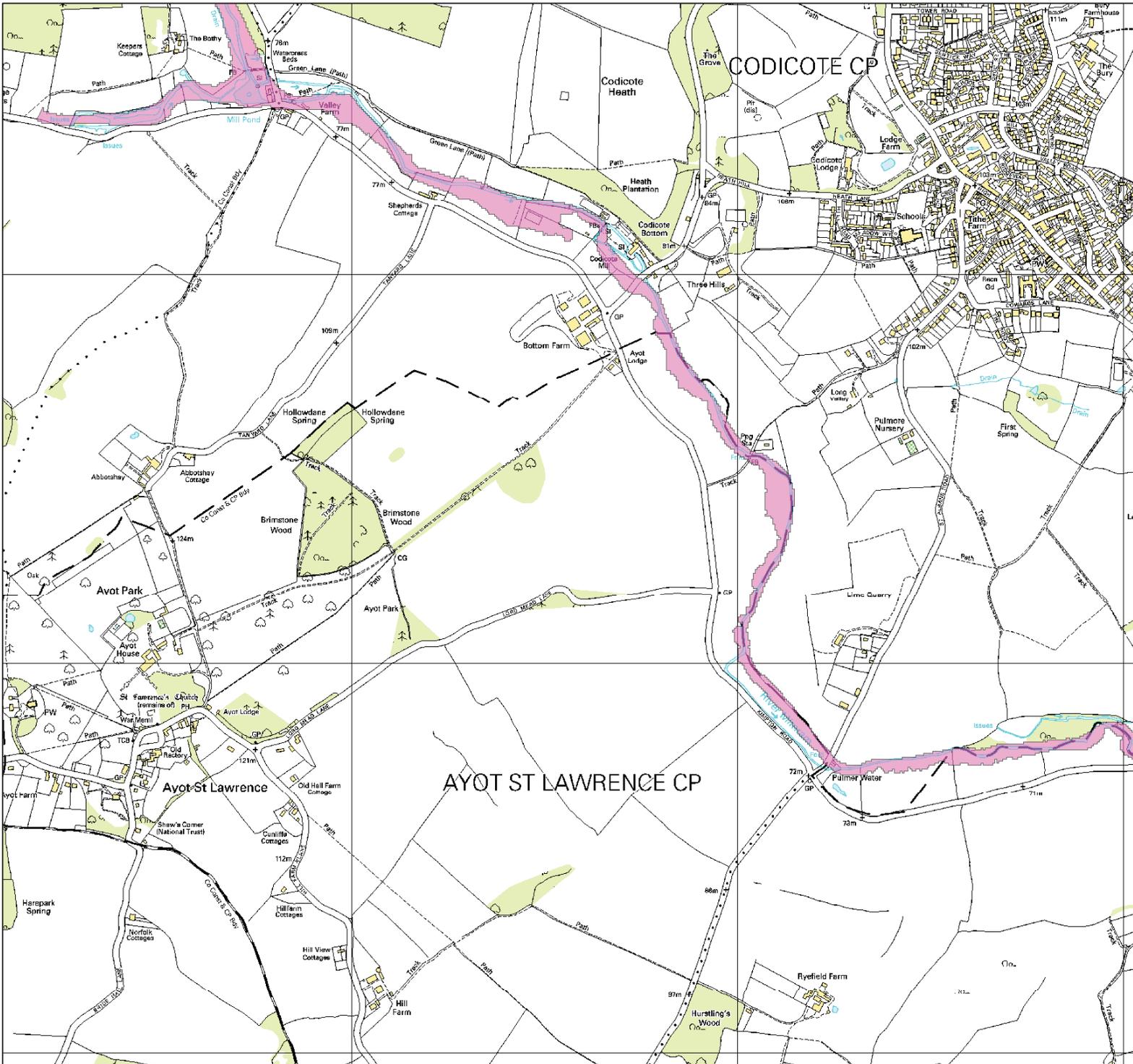
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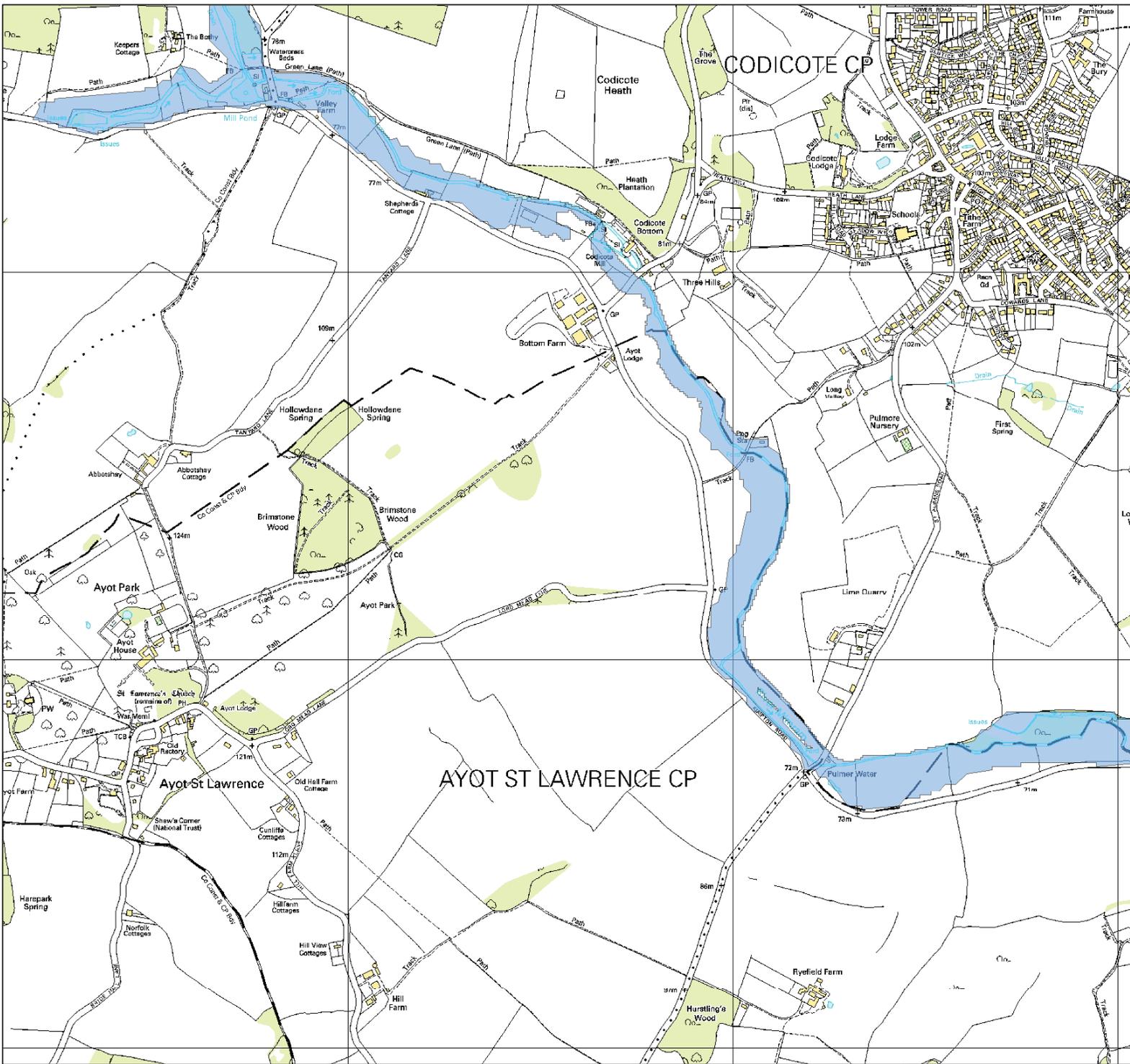


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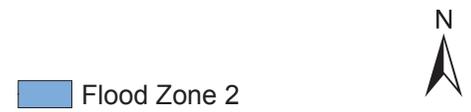
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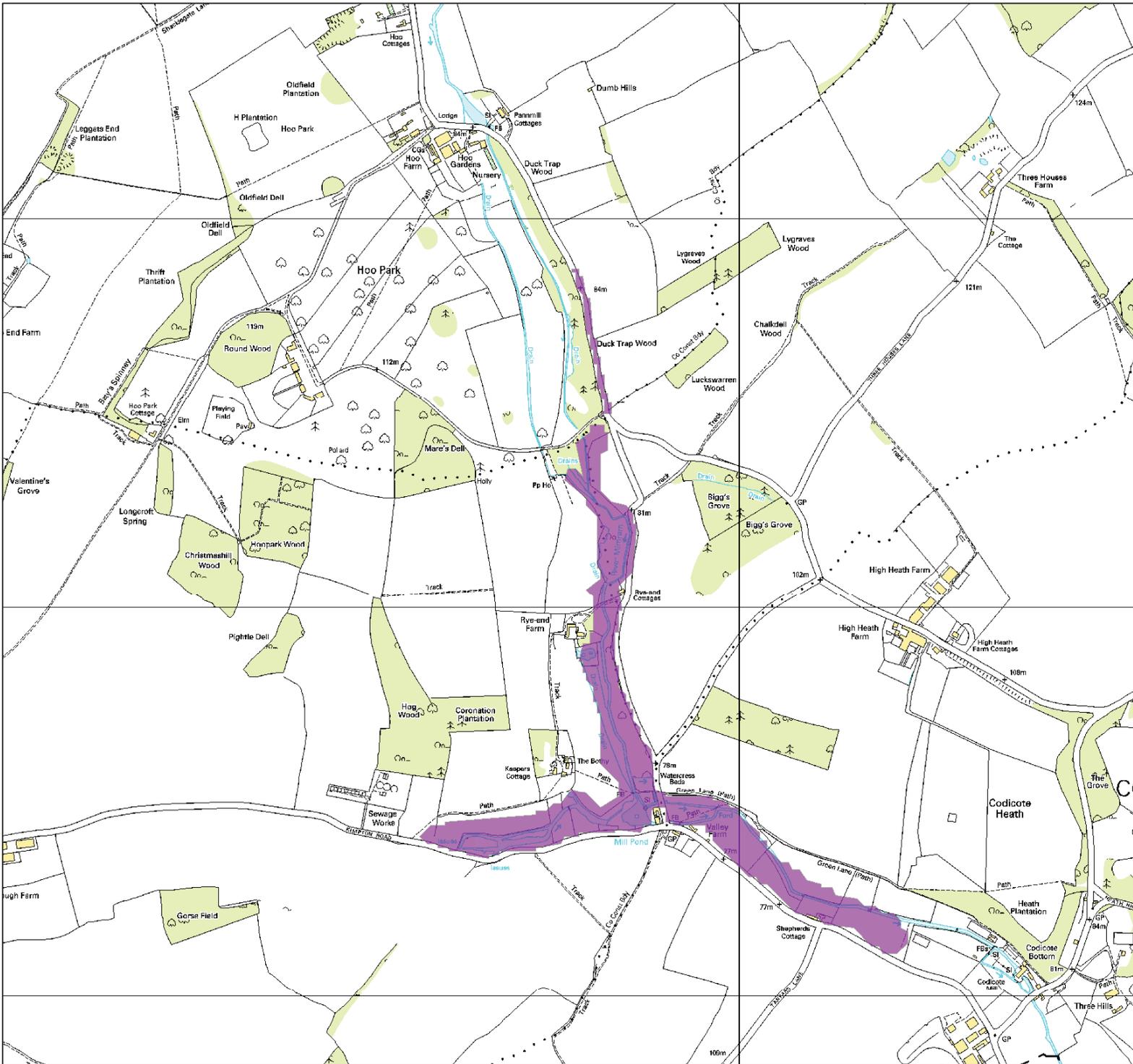
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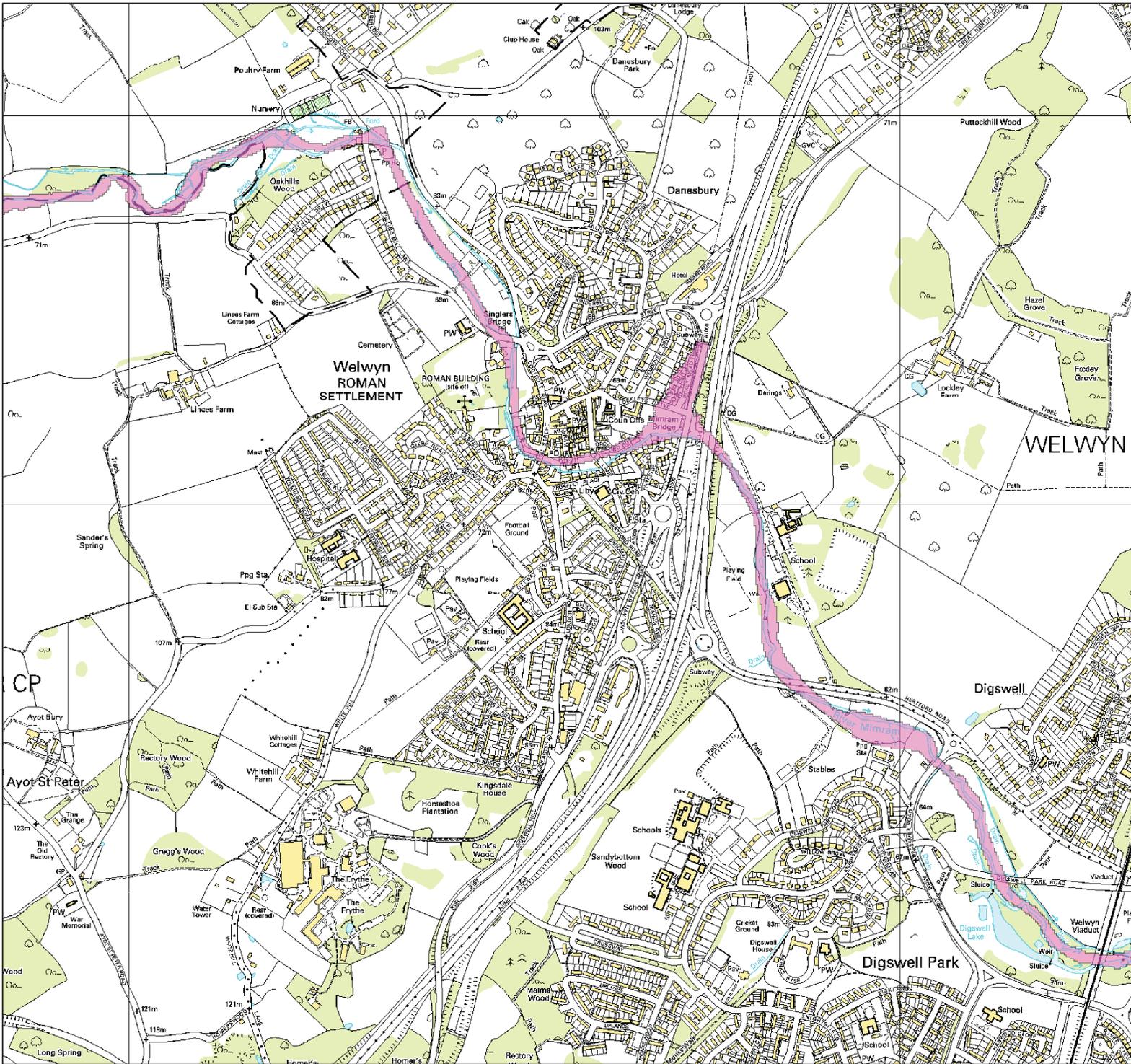
1947 Flood Event River Mimram

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 1947 Flood Event



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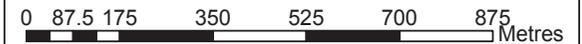
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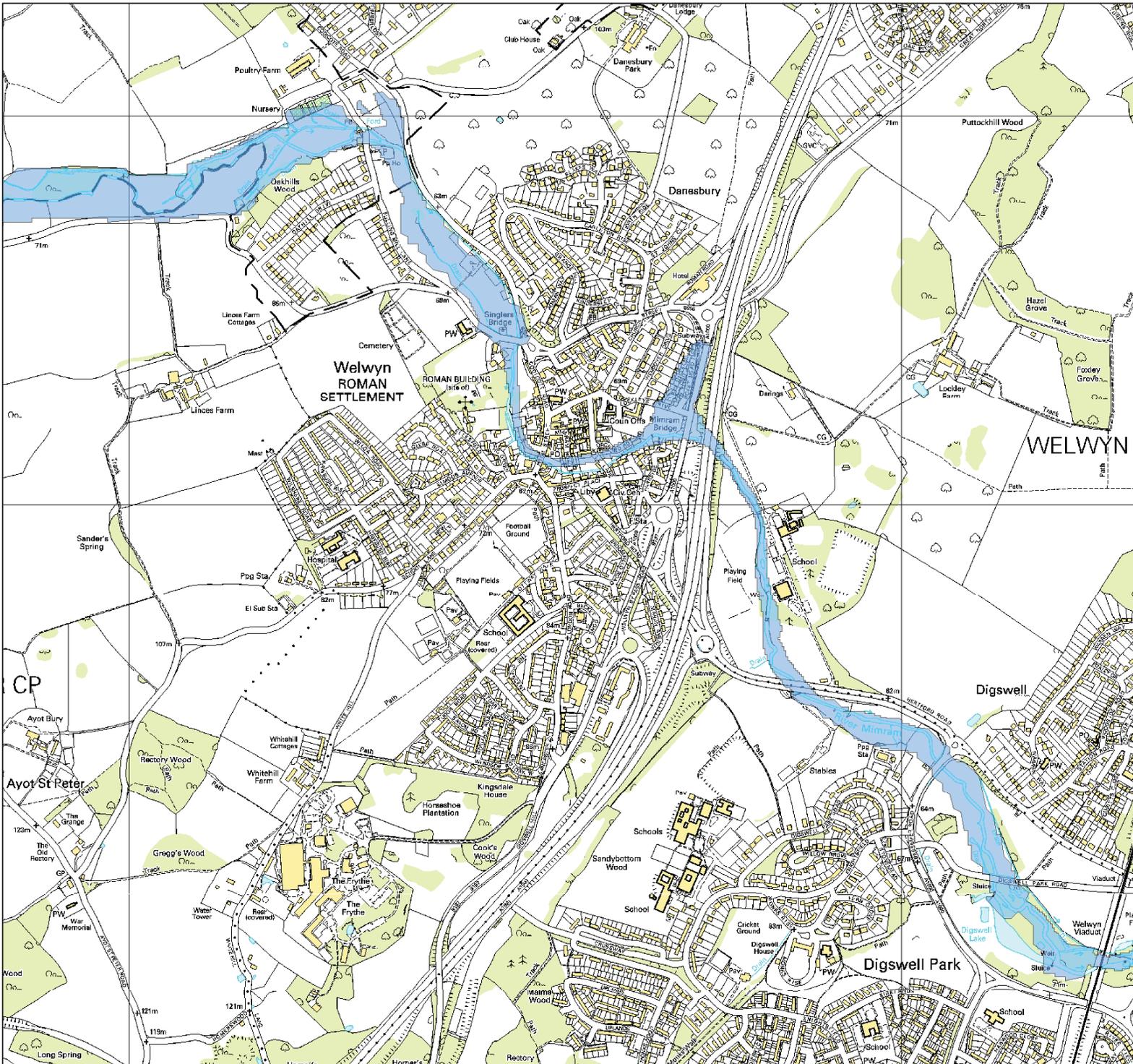


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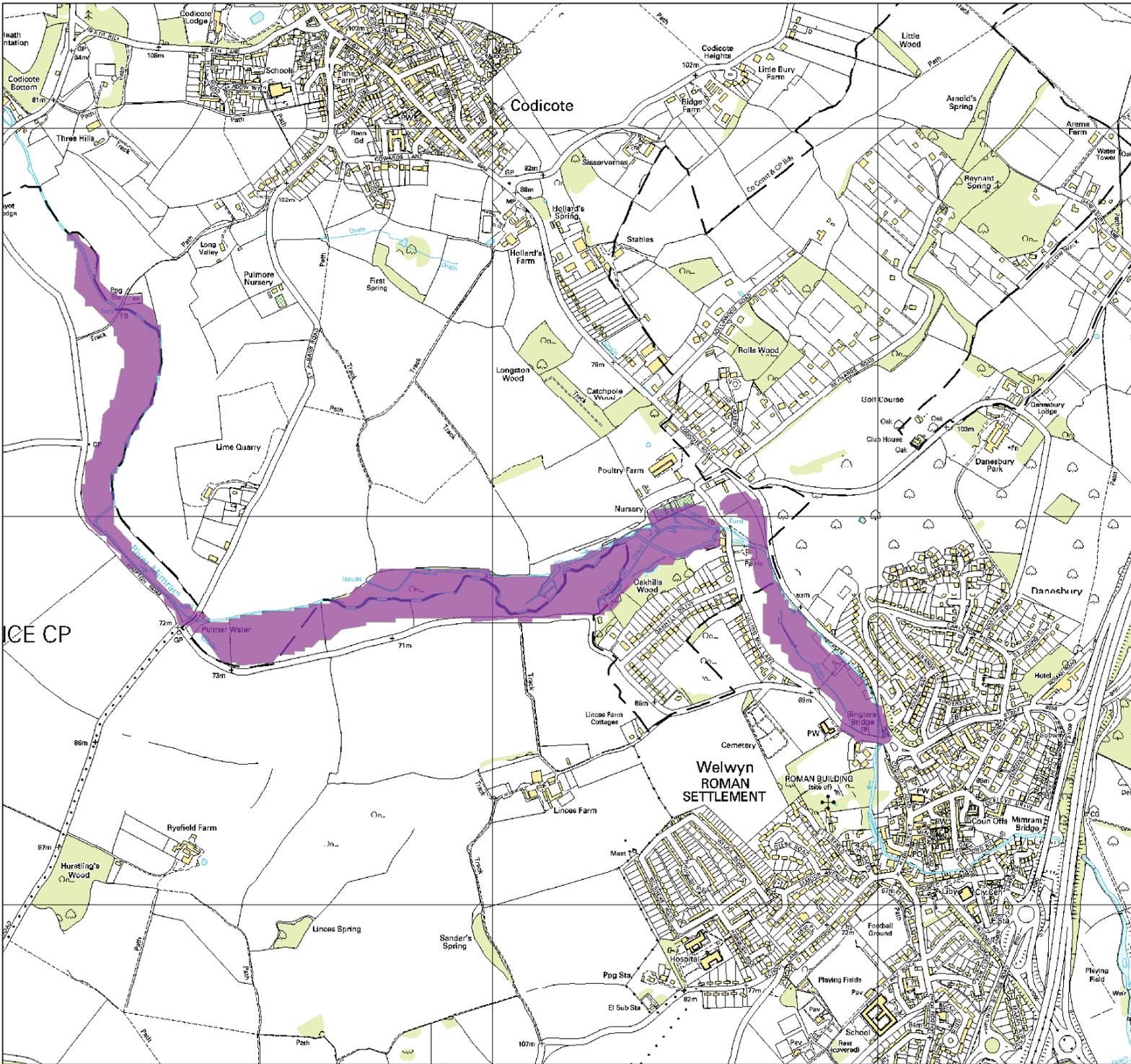


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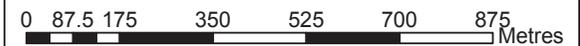
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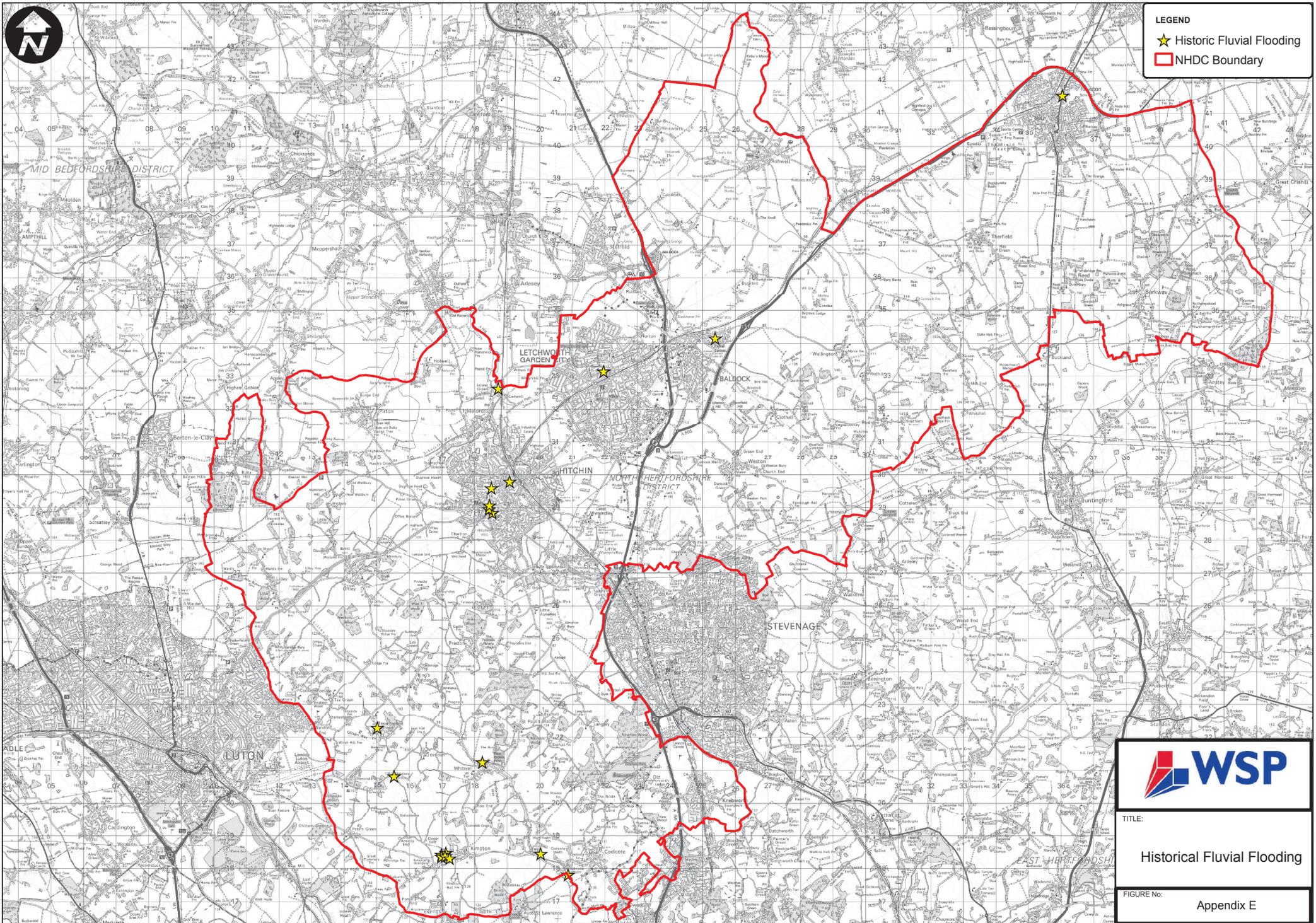
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 1947 Flood Event



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LEGEND

-  Historic Fluvial Flooding
-  NHDC Boundary



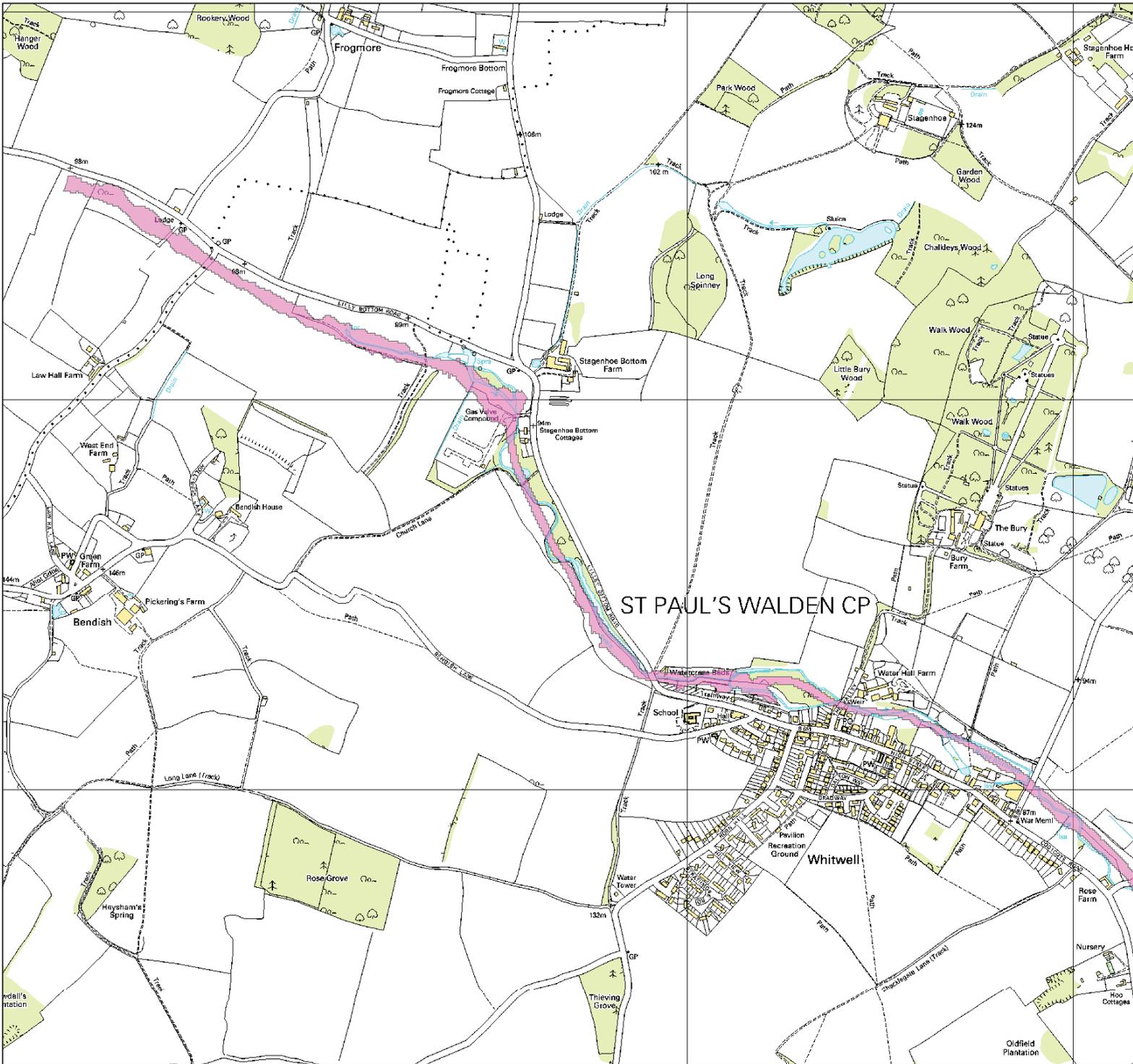
TITLE:
Historical Fluvial Flooding

FIGURE No:
Appendix E

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0 0.5 1
Kilometers

NTS



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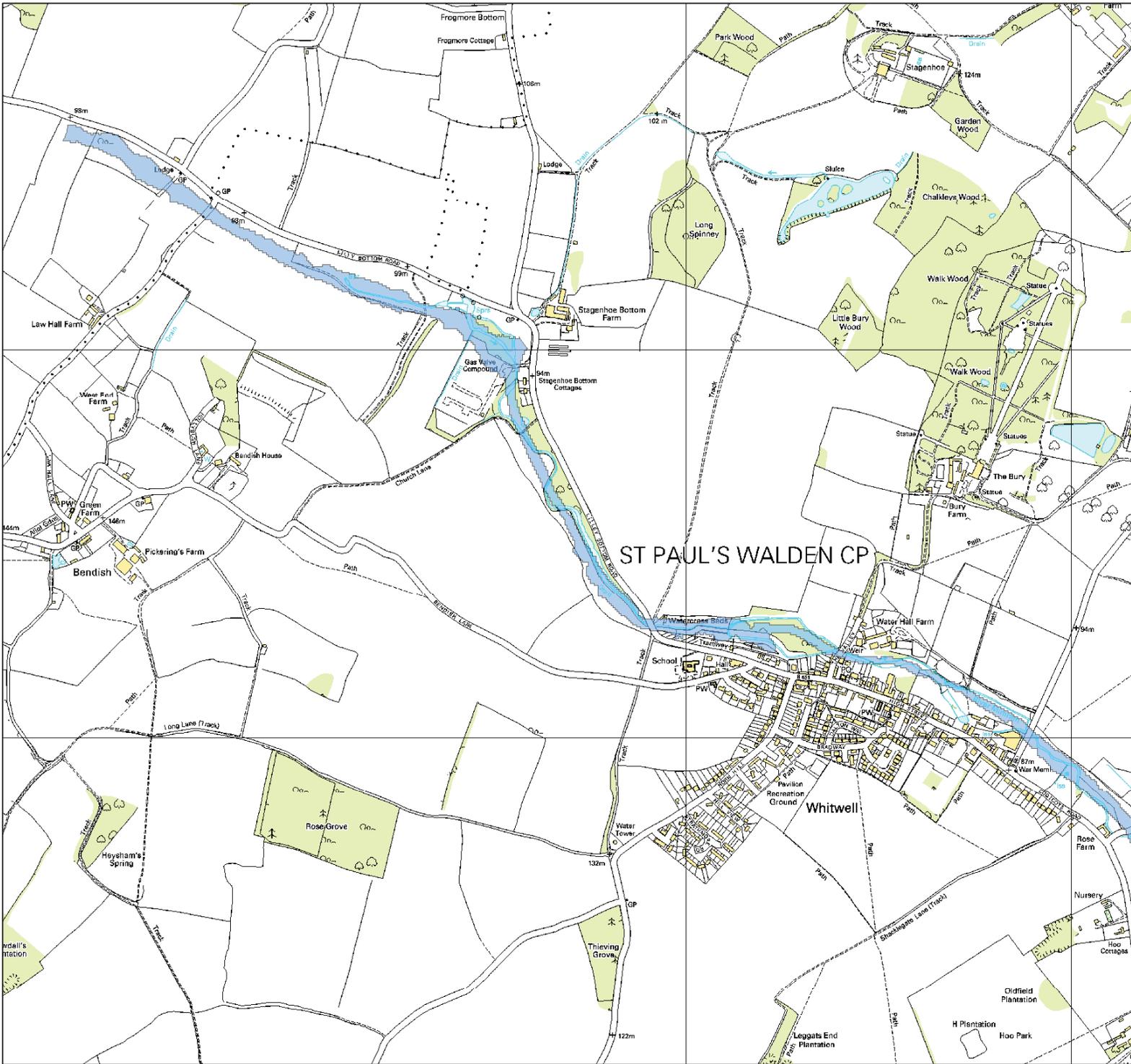


Zone 2 - represents an area with the chance of flooding in any one year between 0.1% and 1% fluvial.

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0 87.5 175 350 525 700 875 Metres

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Flood Zone 2 River Mimram

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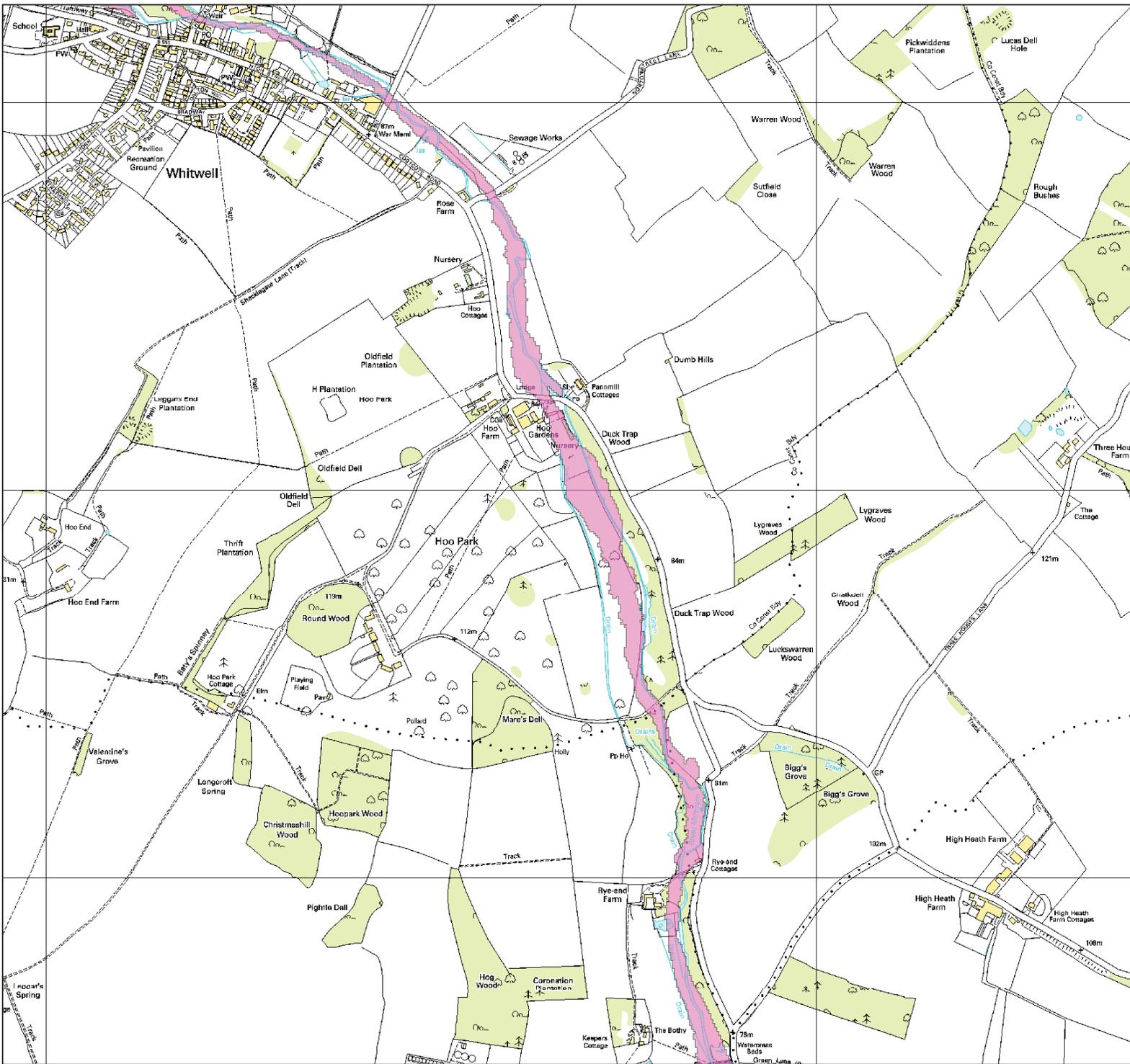


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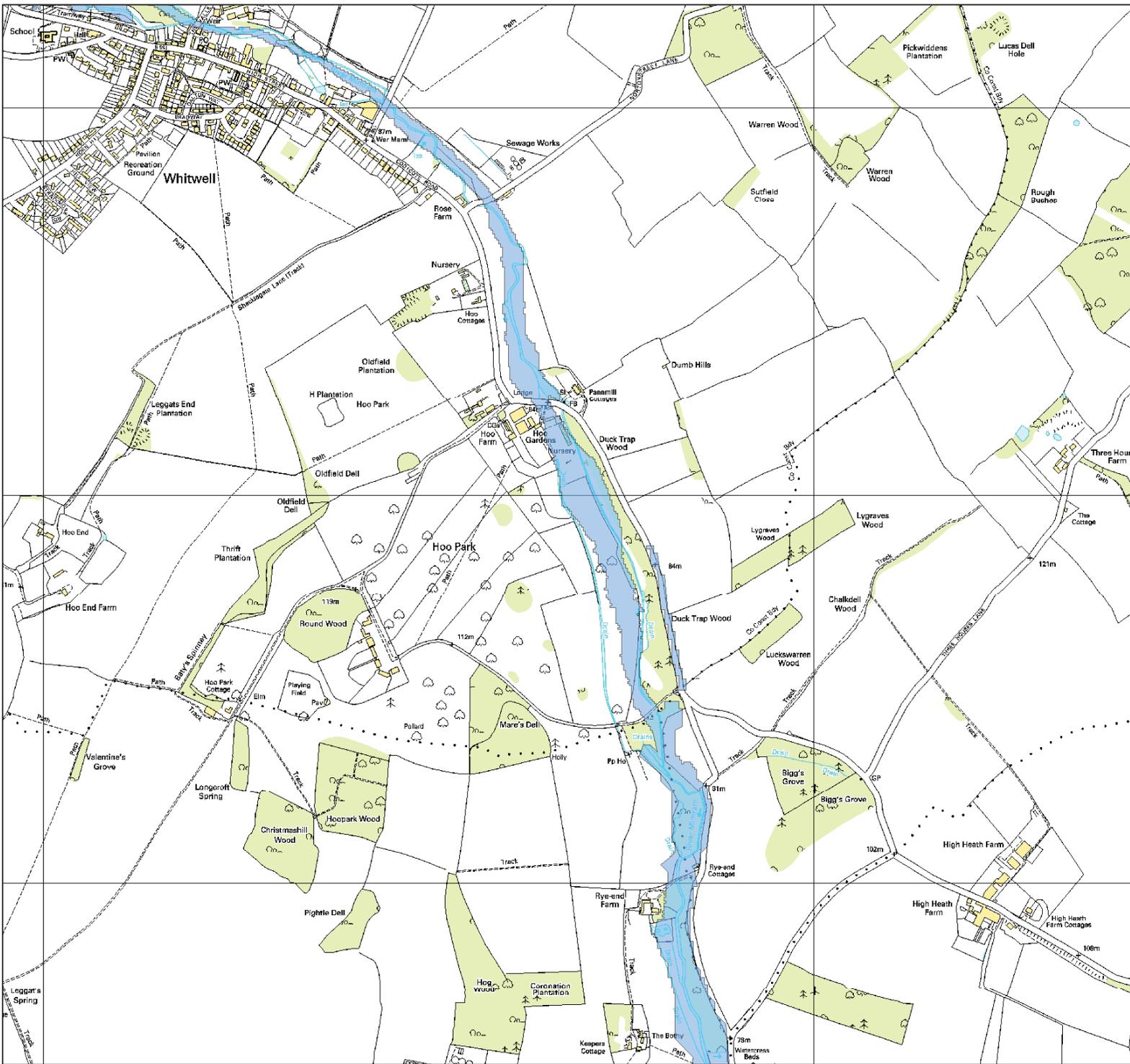


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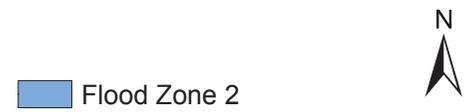
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Flood Zone 2 River Mimram

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 Flood Zone 2

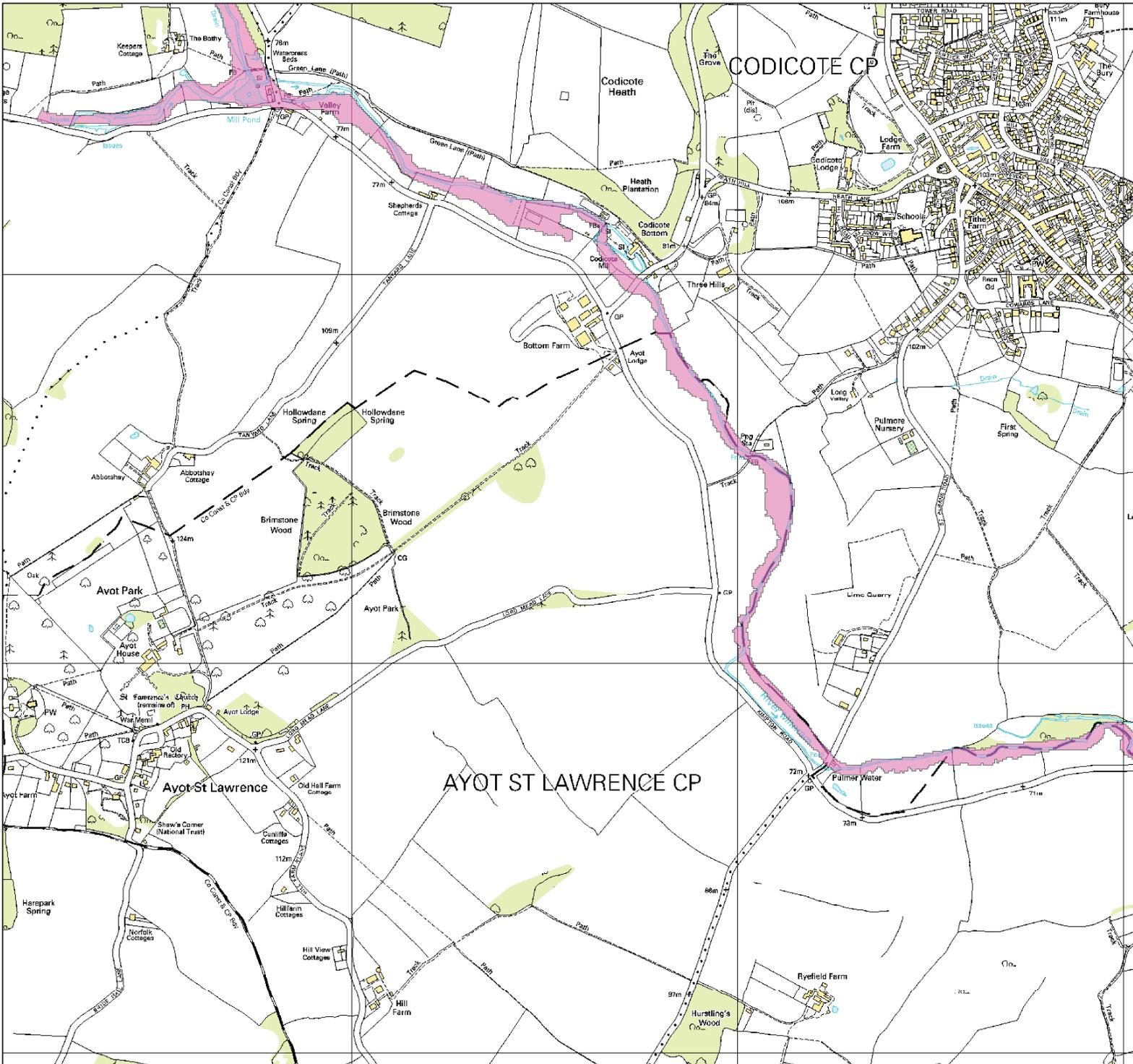
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Flood Zone 3 River Mimram

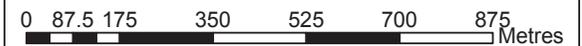
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 27 March 2006

 Flood Zone 3

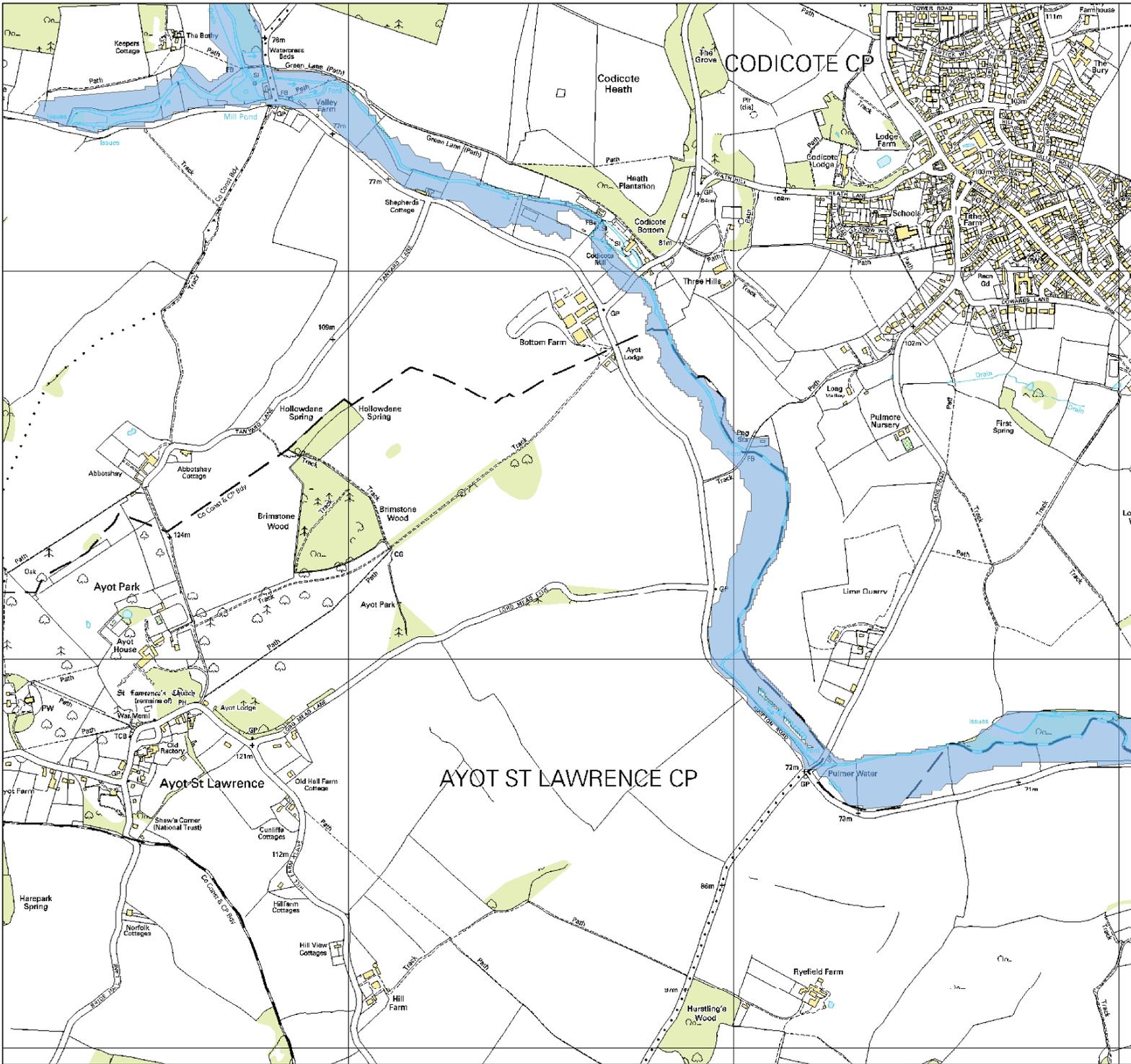


Zone 2 - represents an area with the chance of flooding in any one year between 0.1% and 1% fluvial.

Zone 3 - represents an area with the chance of flooding in any one year greater than or equal to 1% fluvial.



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 North East Area



Environment Agency

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 Hatfield
 Hertfordshire
 AL10 9EX

Flood Zone 2 River Mimram

Our ref: NE9198
 Your ref: North Herts SFRA
 27 March 2006

 Flood Zone 2



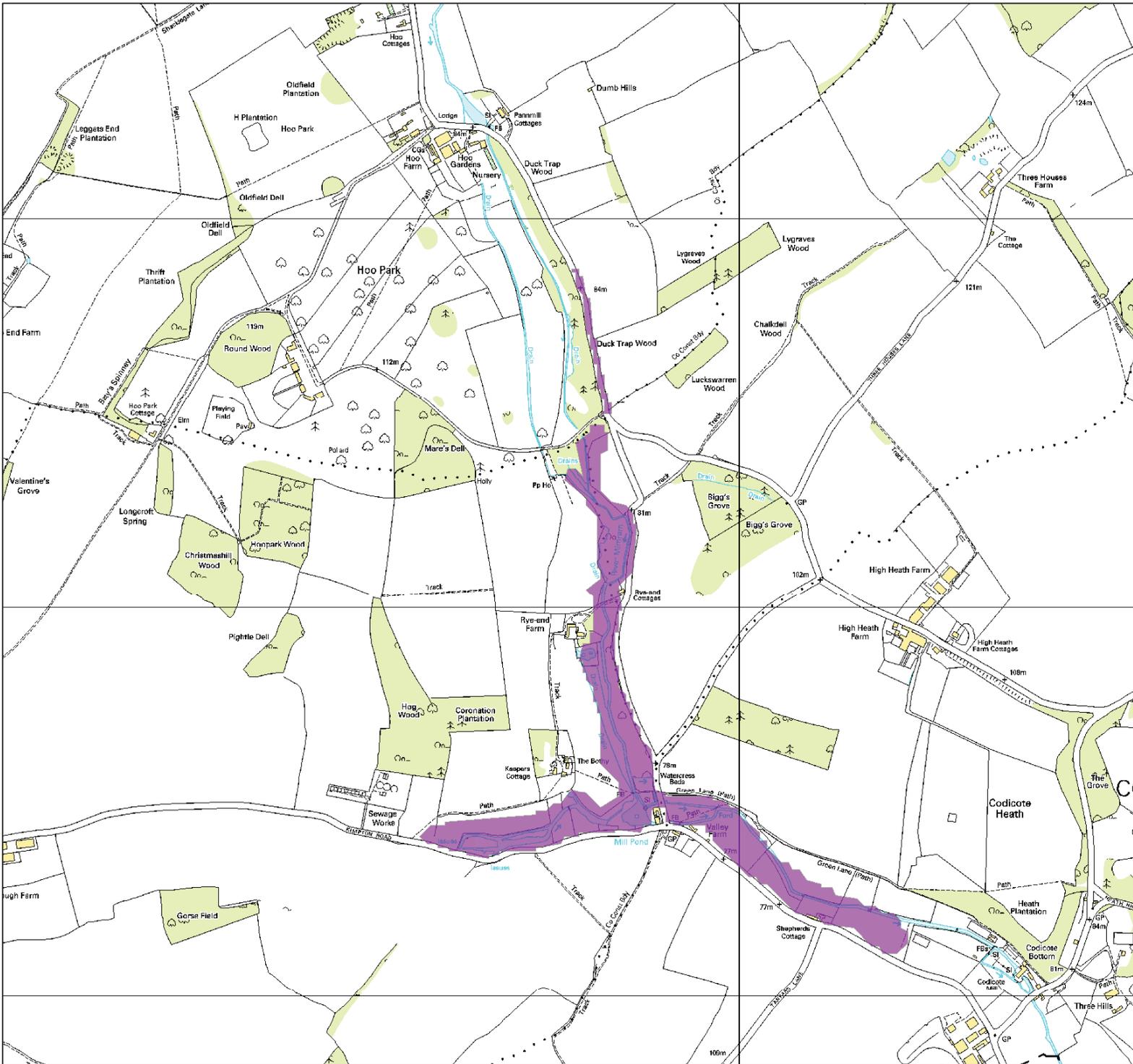
Zone 2 - represents an area with the chance of flooding in any one year between 0.1% and 1% fluvial.

Zone 3 - represents an area with the chance of flooding in any one year greater than or equal to 1% fluvial.



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Environment Agency
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 Hertfordshire
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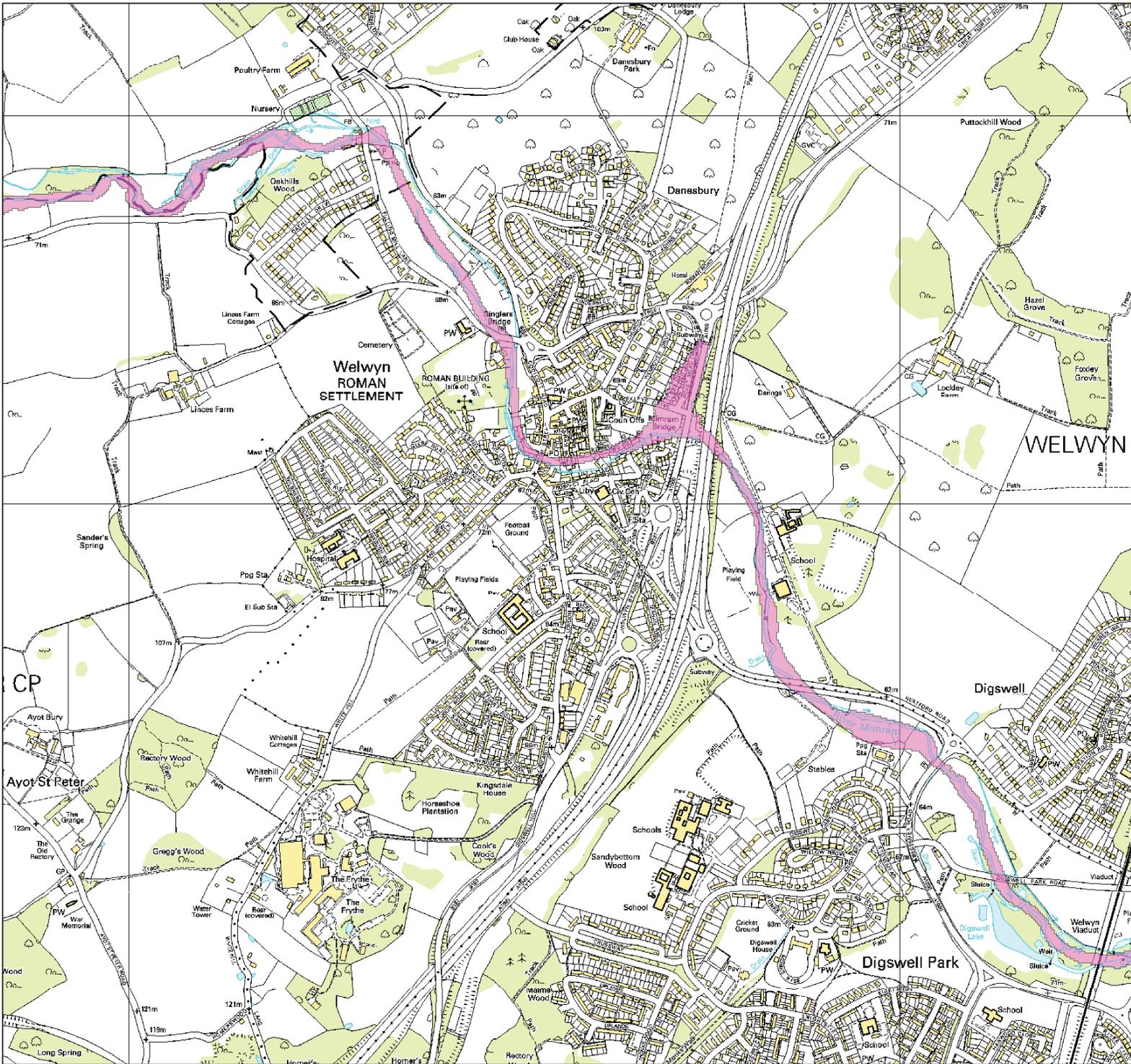
1947 Flood Event River Mimram

Our ref: NE9198
 Your ref: North Herts SFRA
 27 March 2006

 1947 Flood Event



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Flood Zone 3 River Mimram

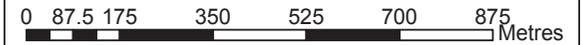
Our ref: NE9198
 Your ref: North Herts SFRA
 27 March 2006

 Flood Zone 3

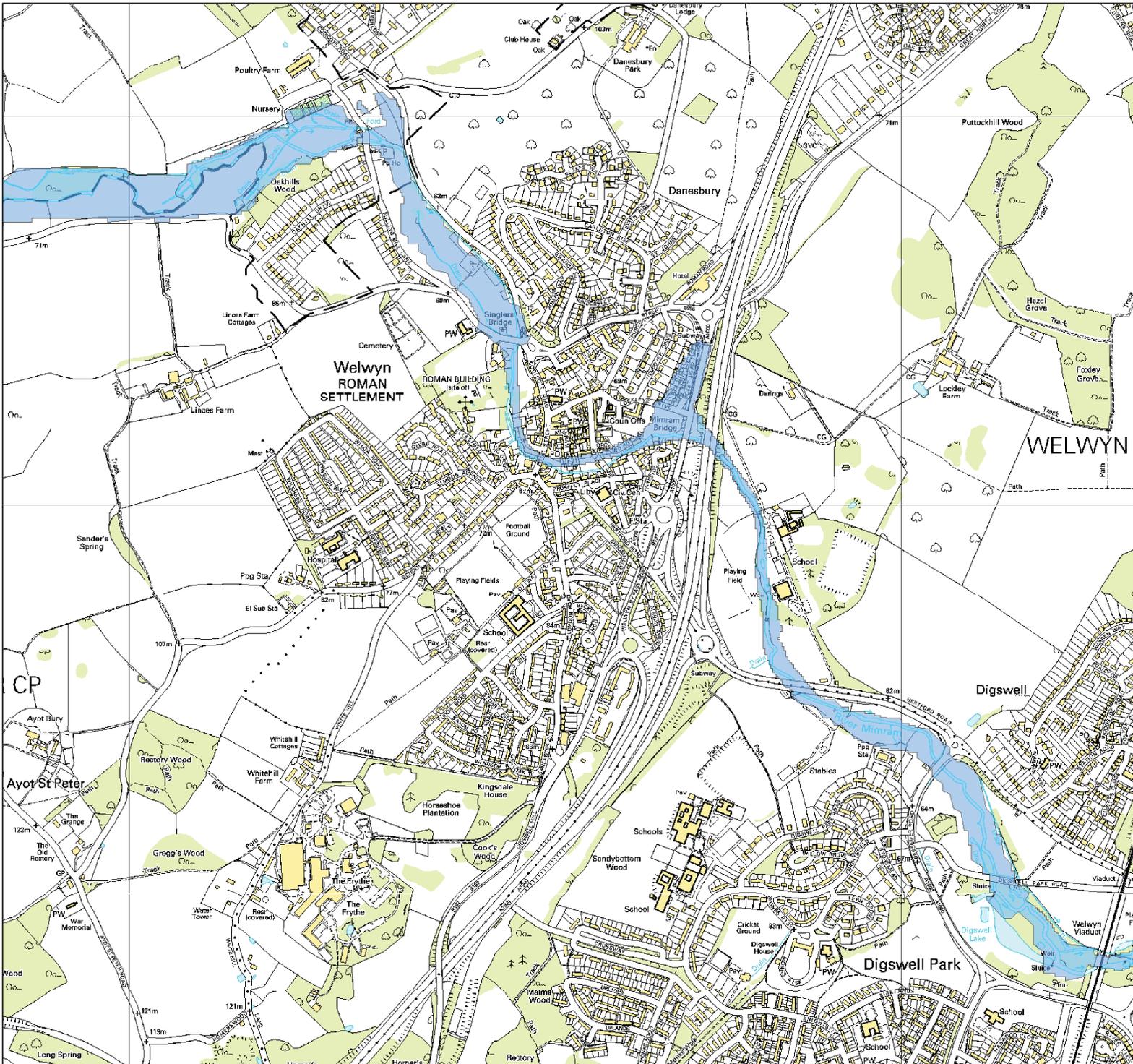


Zone 2 - represents an area with the chance of flooding in any one year between 0.1% and 1% fluvial.

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Flood Zone 2 River Mimram

Our ref: NE9198
 Your ref: North Herts SFRA
 27 March 2006

 Flood Zone 2

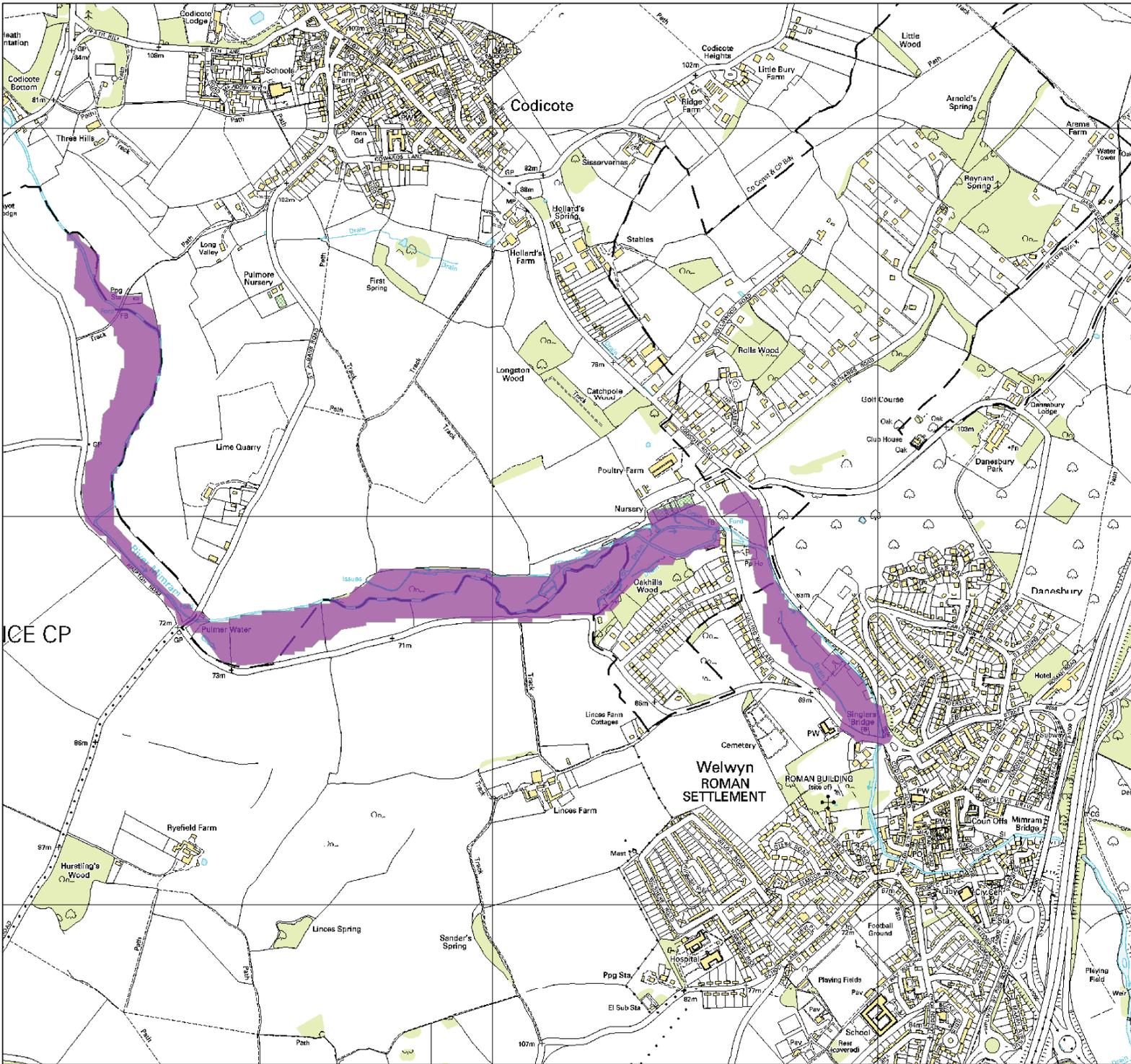


Zone 2 - represents an area with the chance of flooding in any one year between 0.1% and 1% fluvial.

Zone 3 - represents an area with the chance of flooding in any one year greater than or equal to 1% fluvial.



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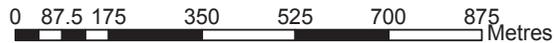
Environment Agency

Environment Agency
 2 Bishops Square Business Park
 St Albans Road West
 Hatfield
 Hertfordshire
 AL10 9EX

1947 Flood Event River Mimram

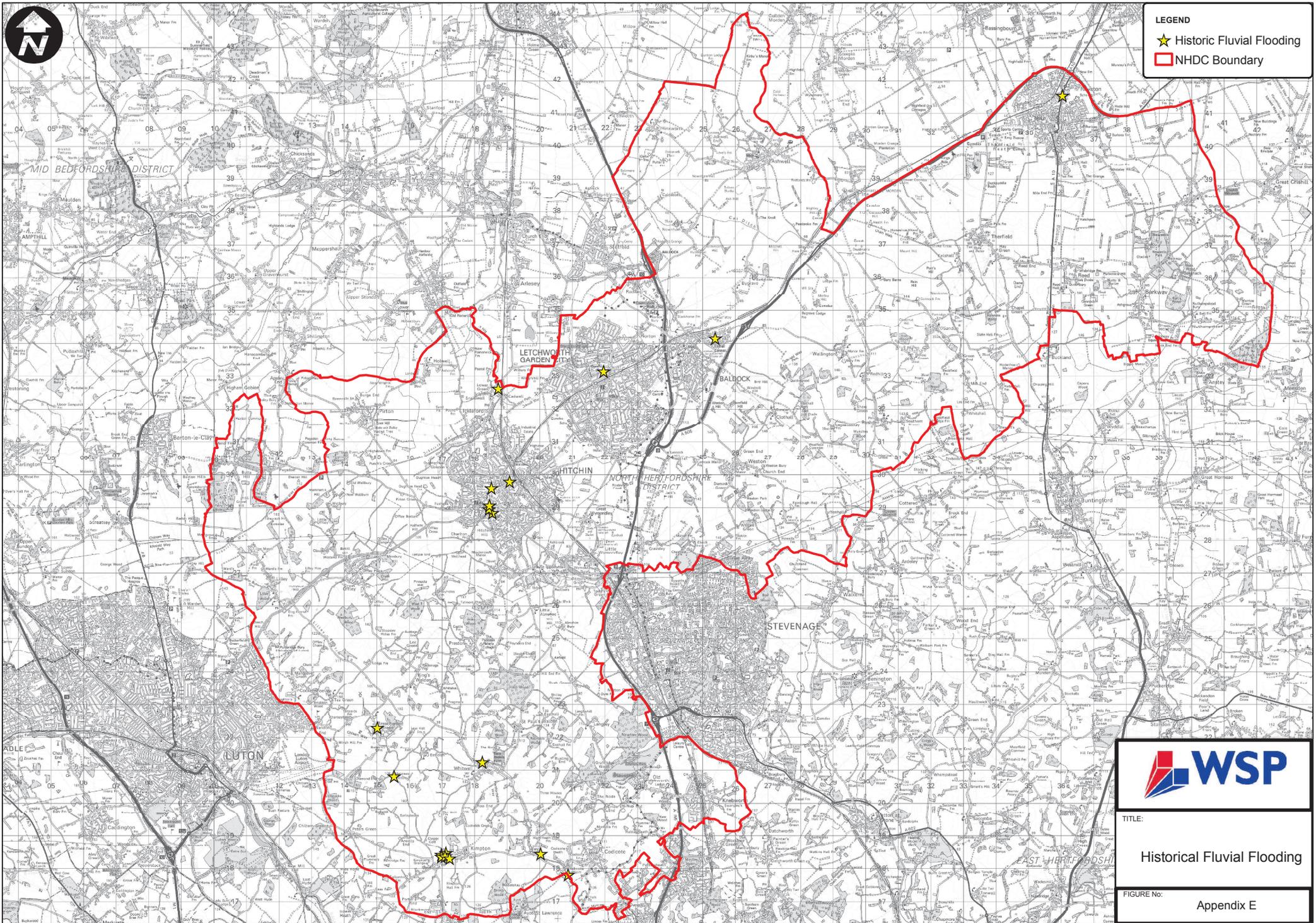
Our ref: NE9198
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 27 March 2006

 1947 Flood Event



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LEGEND

-  Historic Fluvial Flooding
-  NHDC Boundary



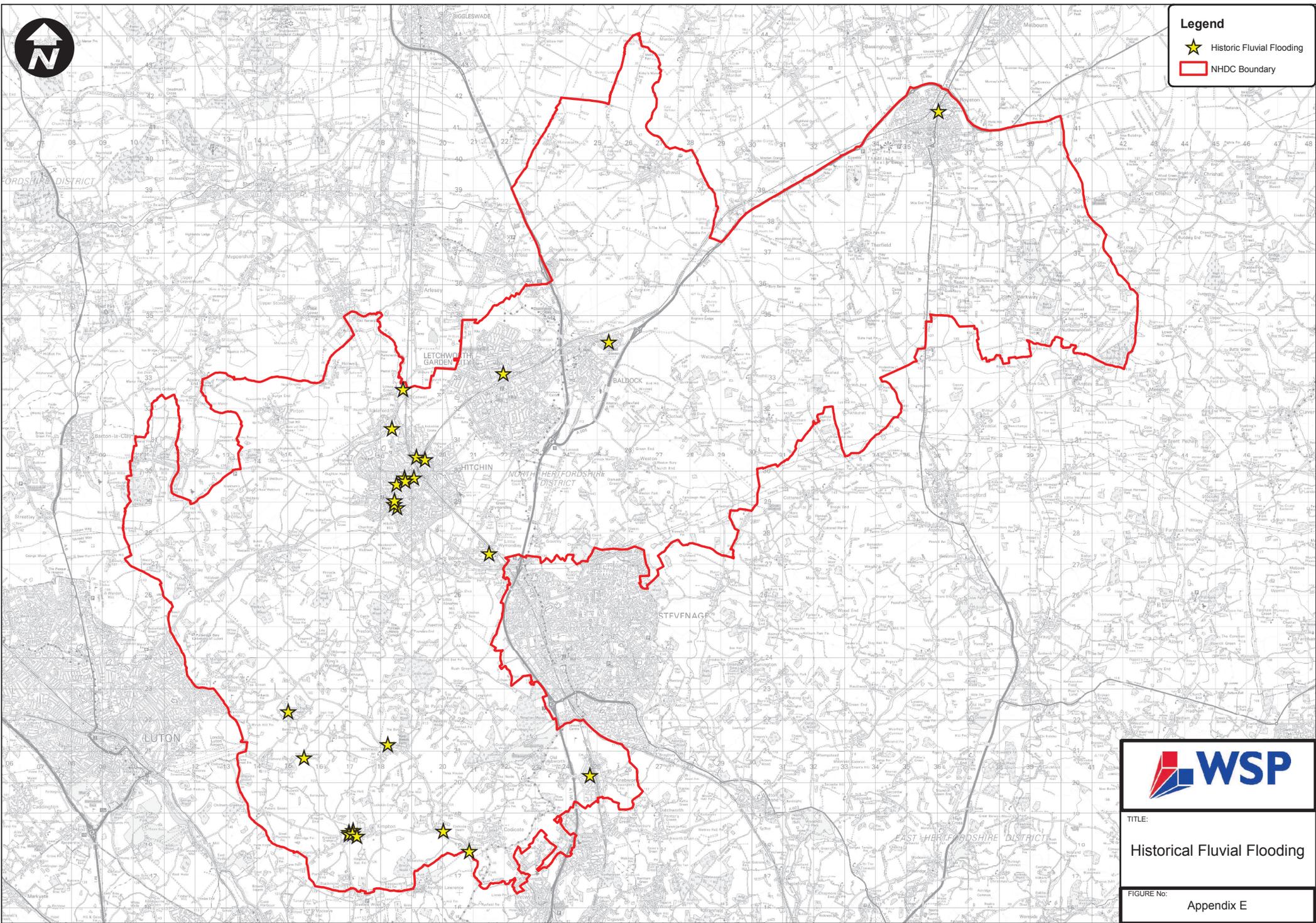
TITLE:
Historical Fluvial Flooding

FIGURE No:
Appendix E

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0 0.5 1
Kilometers

NTS



Legend

- ★ Historic Fluvial Flooding
- NHDC Boundary



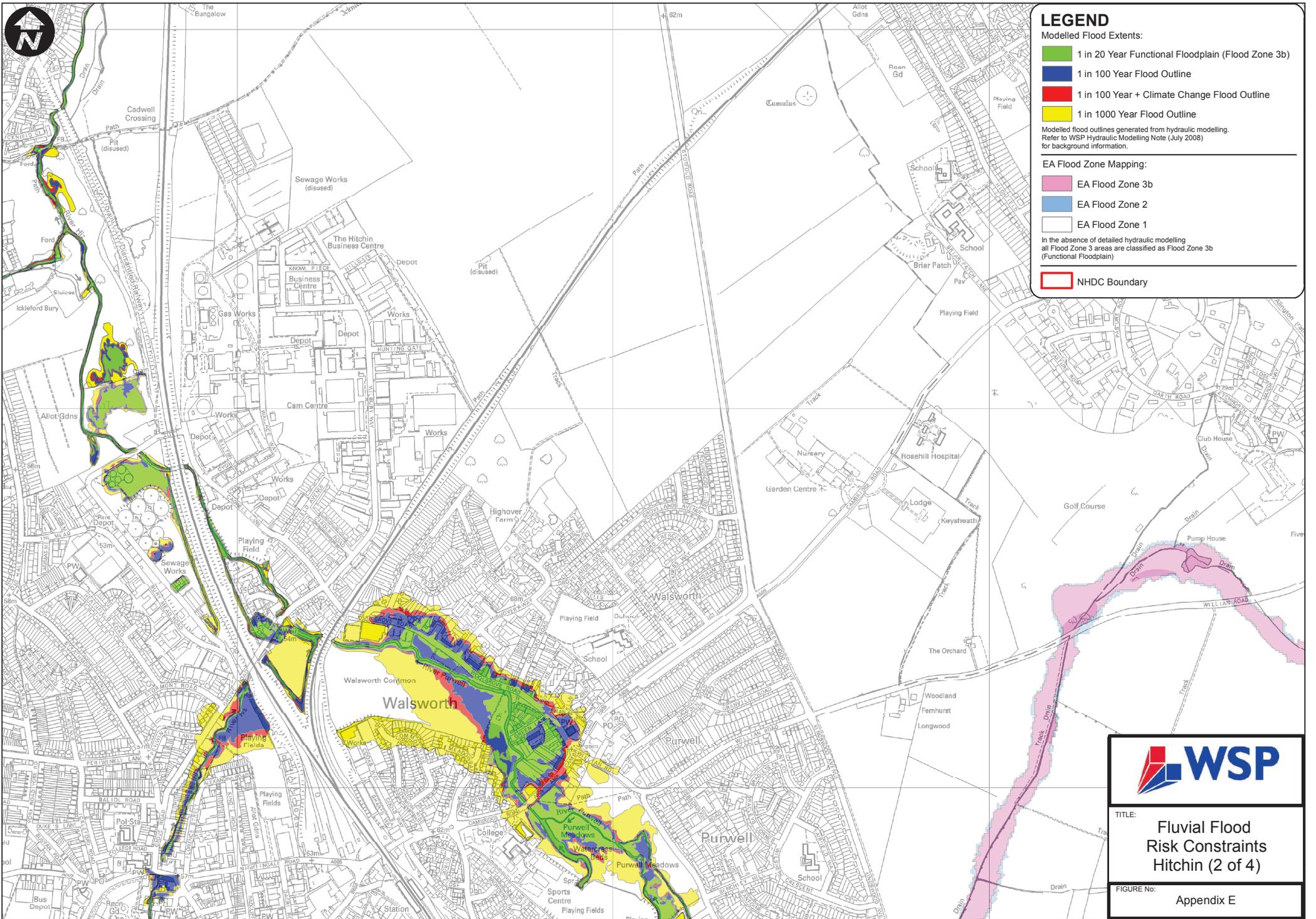
TITLE:
Historical Fluvial Flooding

FIGURE No:
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0 0.5 1
 Kilometers

NTS



LEGEND

Modelled Flood Extents:

- 1 in 20 Year Functional Floodplain (Flood Zone 3b)
- 1 in 100 Year Flood Outline
- 1 in 100 Year + Climate Change Flood Outline
- 1 in 1000 Year Flood Outline

Modelled flood outlines generated from hydraulic modelling. Refer to WSP Hydraulic Modelling Note (July 2008) for background information.

EA Flood Zone Mapping:

- EA Flood Zone 3b
- EA Flood Zone 2
- EA Flood Zone 1

In the absence of detailed hydraulic modelling all Flood Zone 3 areas are classified as Flood Zone 3b (Functional Floodplain)

- NHDC Boundary



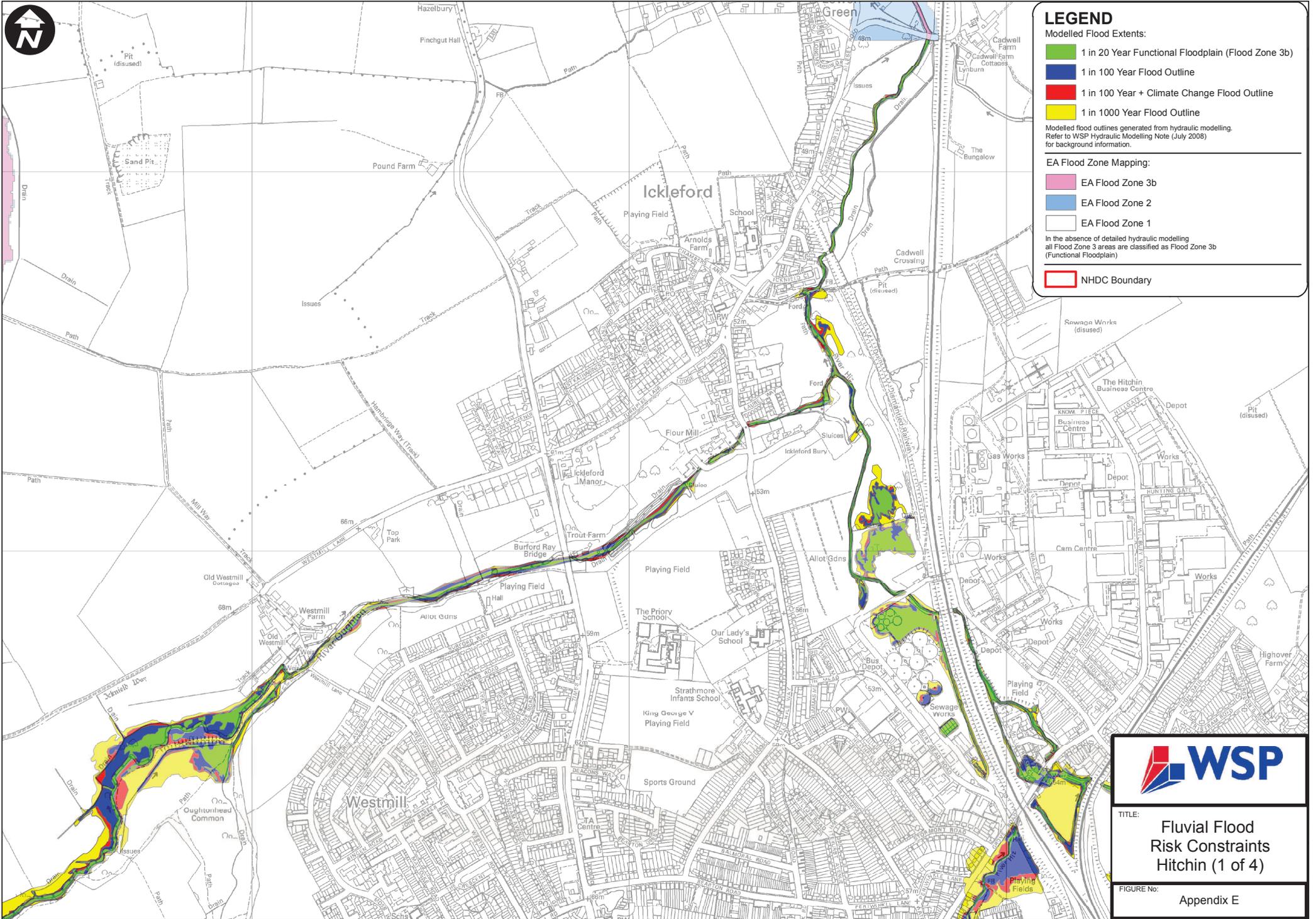
TITLE:
Fluvial Flood Risk Constraints Hitchin (2 of 4)

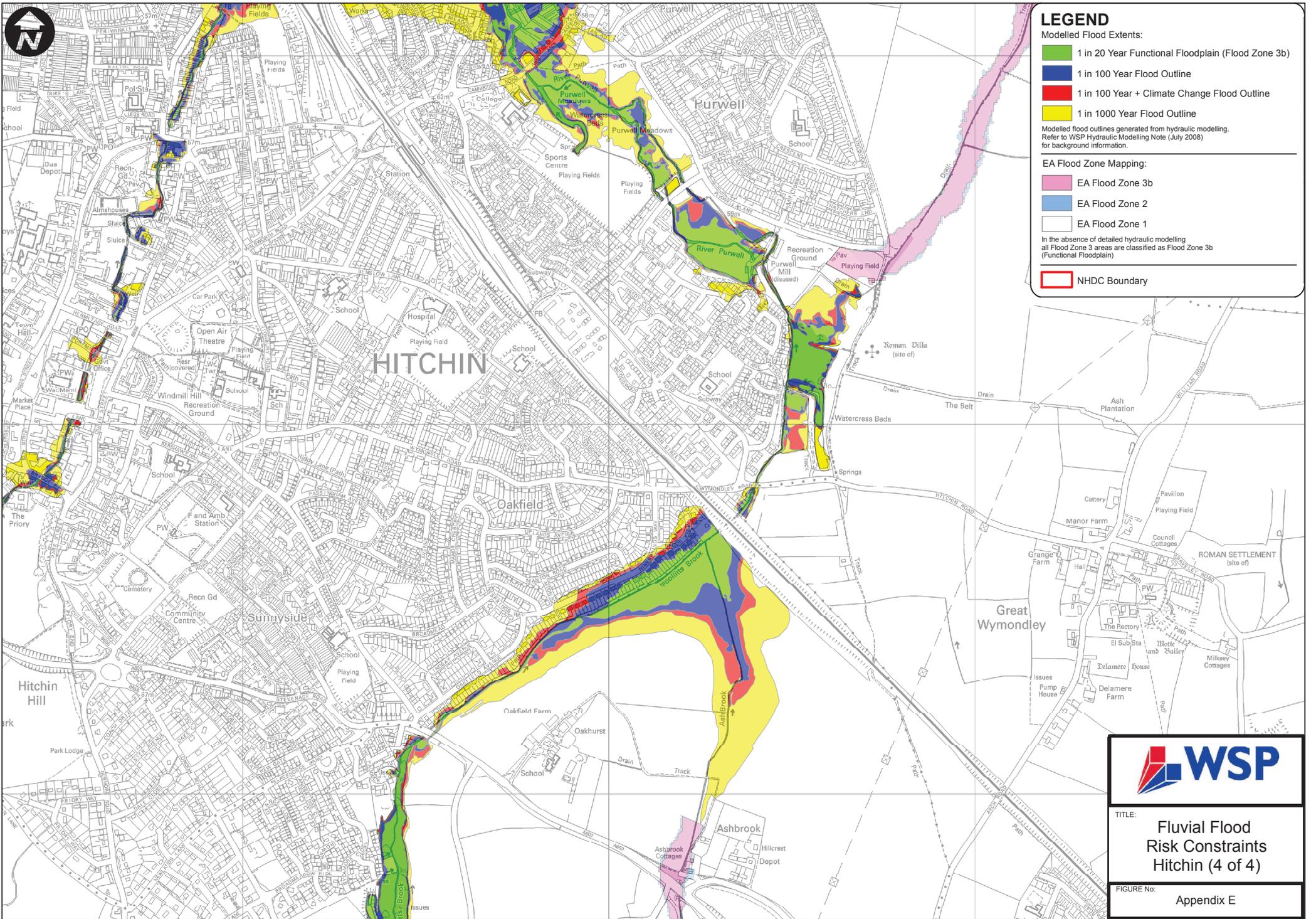
FIGURE No:
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LEGEND

Modelled Flood Extents:

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- 1 in 100 Year Flood Outline
- 1 in 100 Year + Climate Change Flood Outline
- 1 in 1000 Year Flood Outline

Modelled flood outlines generated from hydraulic modelling. Refer to WSP Hydraulic Modelling Note (July 2008) for background information.

EA Flood Zone Mapping:

- EA Flood Zone 3b
- EA Flood Zone 2
- EA Flood Zone 1

In the absence of detailed hydraulic modelling all Flood Zone 3 areas are classified as Flood Zone 3b (Functional Floodplain)

- NHDC Boundary



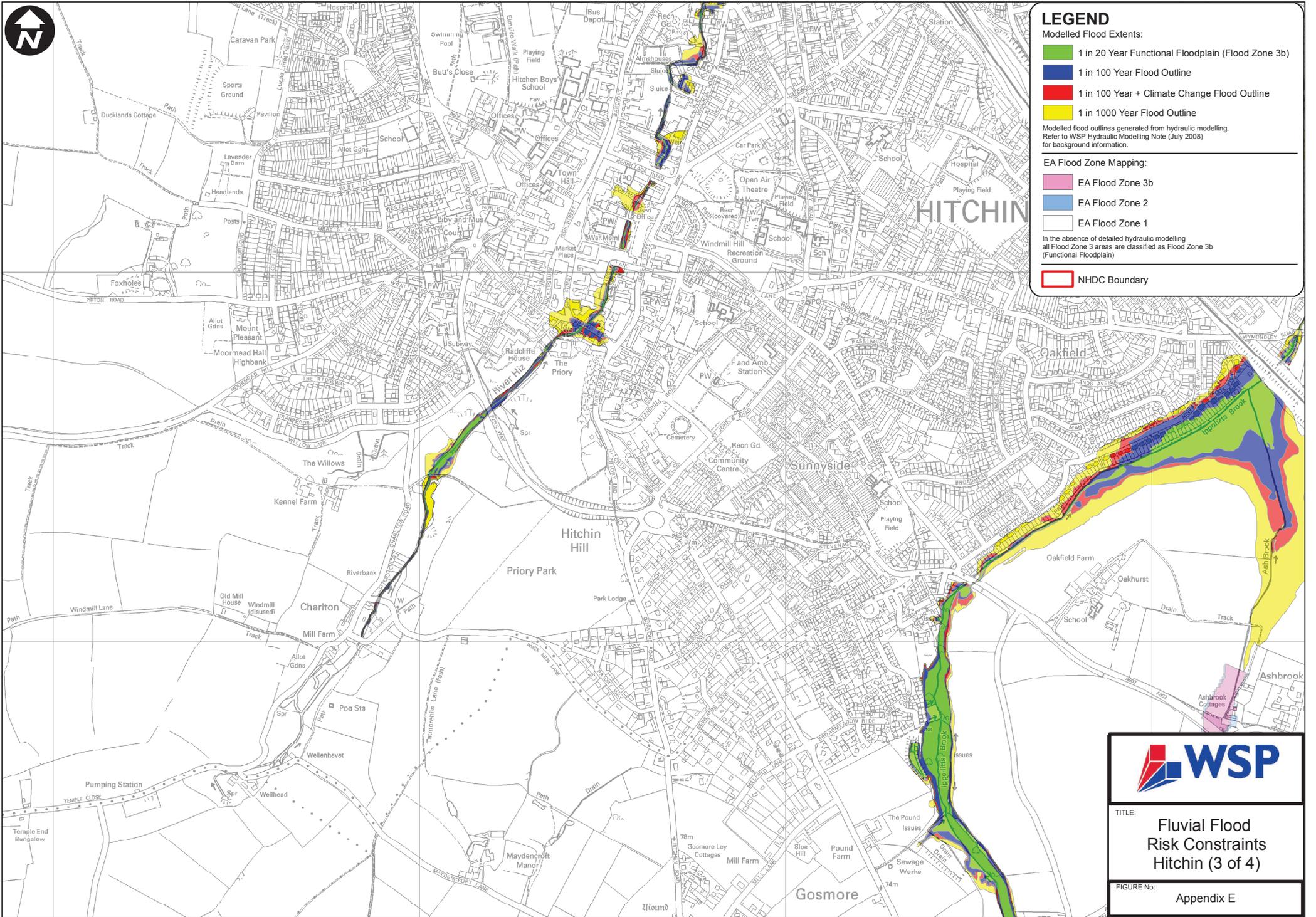
TITLE:
Fluvial Flood Risk Constraints Hitchin (4 of 4)

FIGURE No:
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LEGEND

Modelled Flood Extents:

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- 1 in 1000 Year Flood Outline

Modelled flood outlines generated from hydraulic modelling. Refer to WSP Hydraulic Modelling Note (July 2008) for background information.

EA Flood Zone Mapping:

- EA Flood Zone 3b
- EA Flood Zone 2
- EA Flood Zone 1

In the absence of detailed hydraulic modelling all Flood Zone 3 areas are classified as Flood Zone 3b (Functional Floodplain)

- NHDC Boundary

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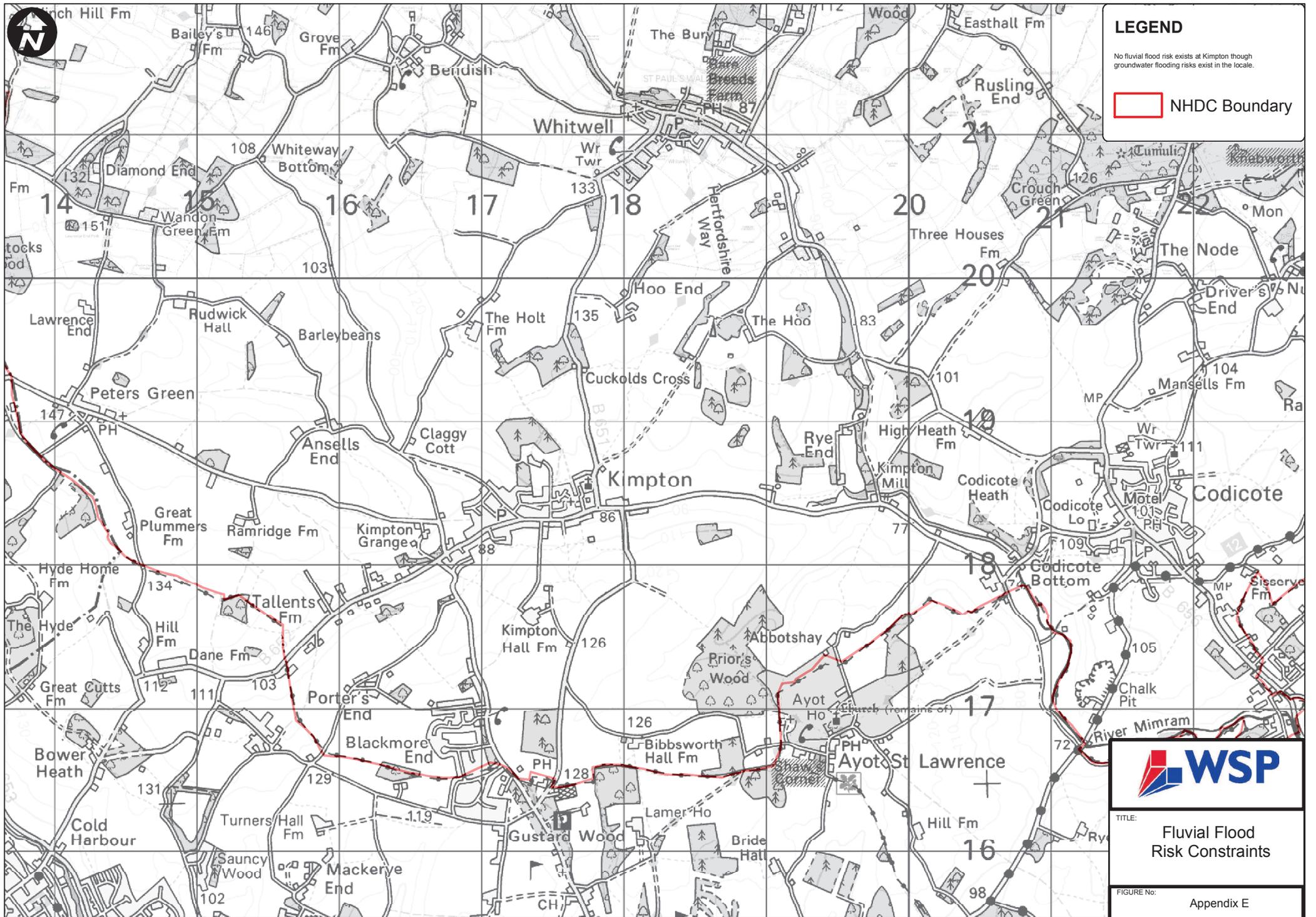


NTS



TITLE:
Fluvial Flood Risk Constraints Hitchin (3 of 4)

FIGURE No:
Appendix E



LEGEND

No fluvial flood risk exists at Kimpton though groundwater flooding risks exist in the locale.

NHDC Boundary

WSP

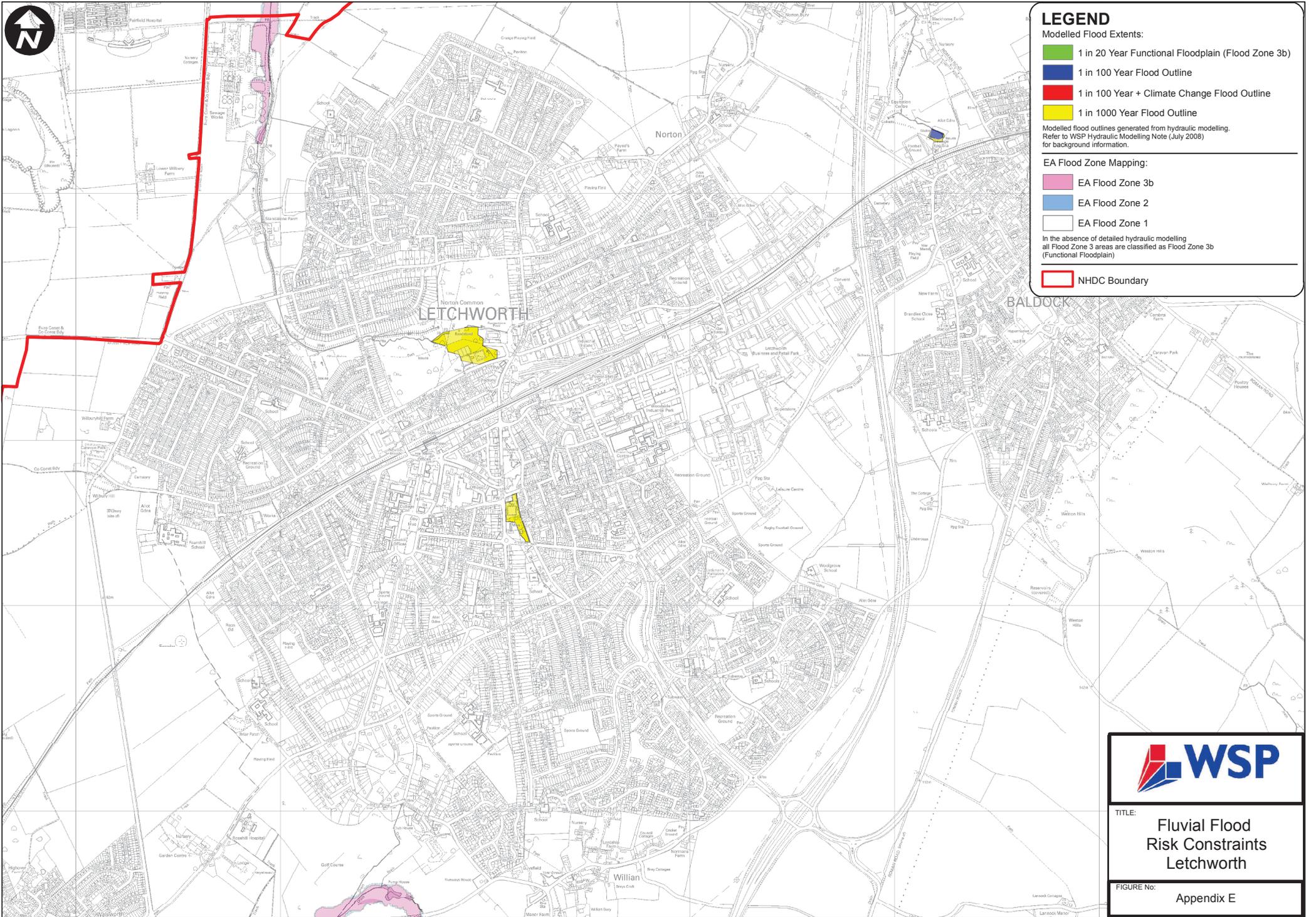
TITLE: Fluvial Flood Risk Constraints

FIGURE No: Appendix E

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0 0.35 0.7 Kilometers

NTS



LEGEND

Modelled Flood Extents:

- 1 in 20 Year Functional Floodplain (Flood Zone 3b)
- 1 in 100 Year Flood Outline
- 1 in 100 Year + Climate Change Flood Outline
- 1 in 1000 Year Flood Outline

Modelled flood outlines generated from hydraulic modelling. Refer to WSP Hydraulic Modelling Note (July 2008) for background information.

EA Flood Zone Mapping:

- EA Flood Zone 3b
- EA Flood Zone 2
- EA Flood Zone 1

In the absence of detailed hydraulic modelling all Flood Zone 3 areas are classified as Flood Zone 3b (Functional Floodplain)

- NHDC Boundary

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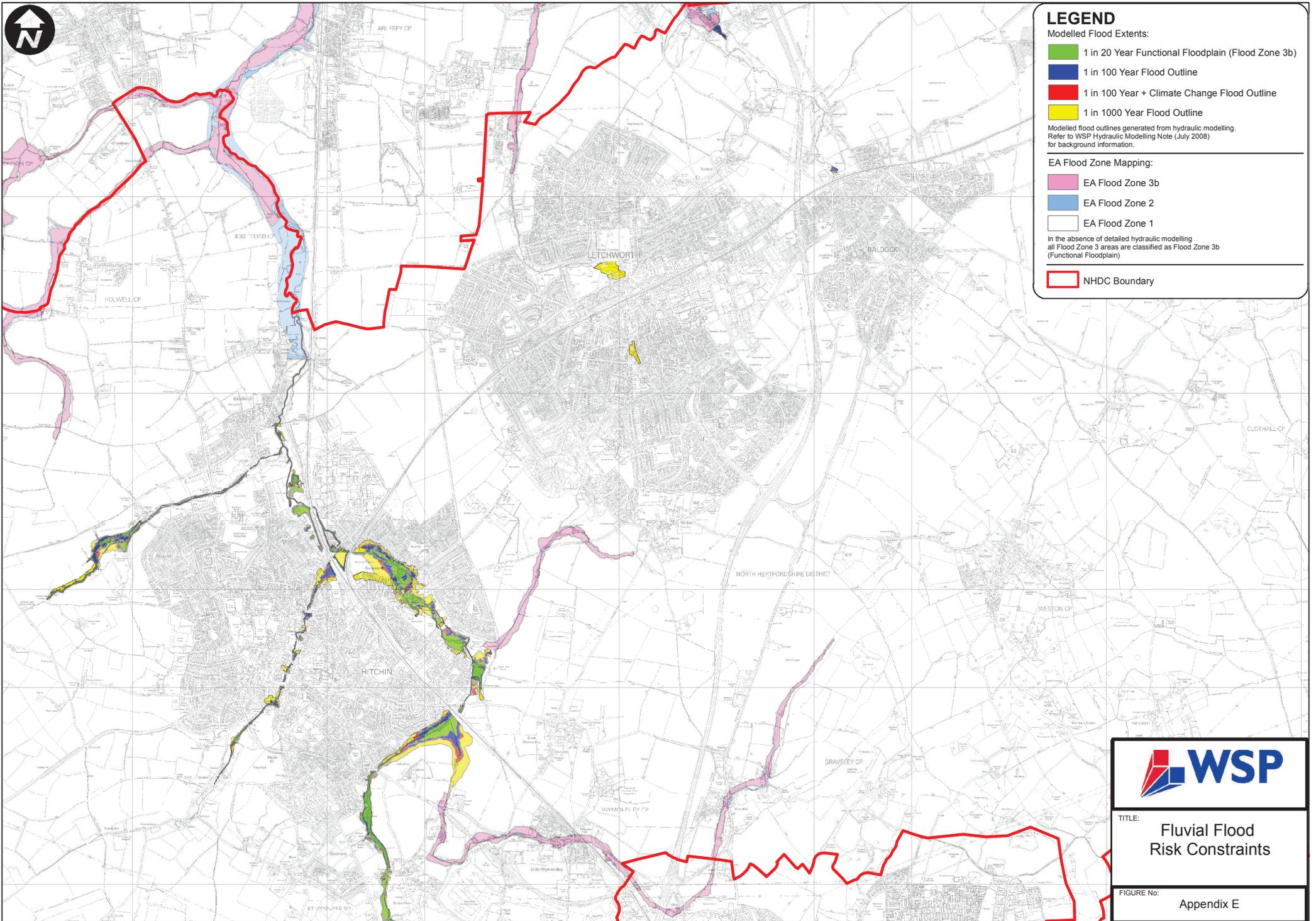


NTS



TITLE: **Fluvial Flood Risk Constraints Letchworth**

FIGURE No: **Appendix E**



LEGEND

Modelled Flood Extents:

- 1 in 20 Year Functional Floodplain (Flood Zone 3b)
- 1 in 100 Year Flood Outline
- 1 in 100 Year + Climate Change Flood Outline
- 1 in 1000 Year Flood Outline

Modelled flood outlines generated from hydraulic modelling. Refer to WSP Hydraulic Modelling Note (July 2008) for background information.

EA Flood Zone Mapping:

- EA Flood Zone 3b
- EA Flood Zone 2
- EA Flood Zone 1

In the absence of detailed hydraulic modelling all Flood Zone 3 areas are classified as Flood Zone 3b (Functional Floodplain)

- NHDC Boundary



TITLE: **Fluvial Flood Risk Constraints**

FIGURE No: **Appendix E**