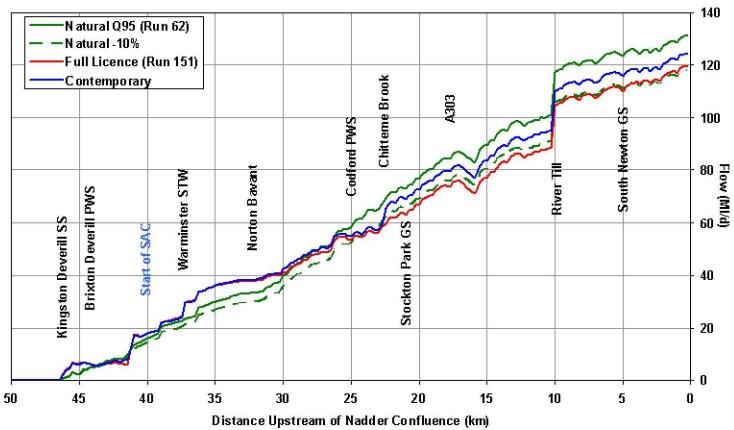
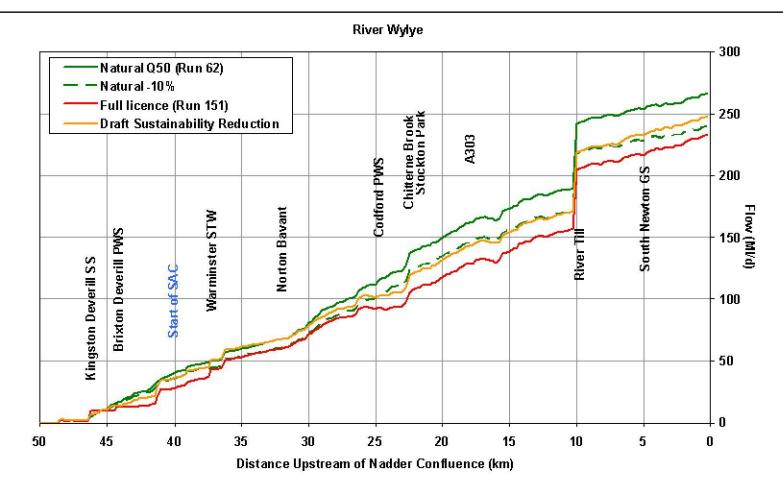


## River Wylye

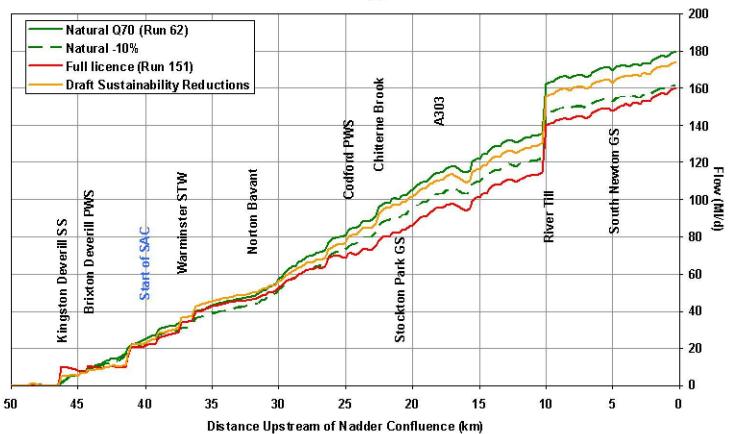


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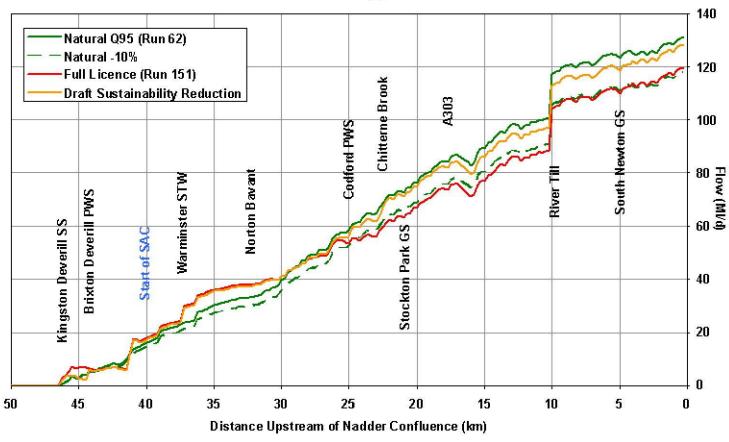
Low Flow Investigations	Investigation Name:	Drawing Name:	Drawing Number:
B9965	Avon SAC	River Wylye River Flow Reduction	Fig 3.18
		due to Contemporary Rates of Abstraction	Final Report





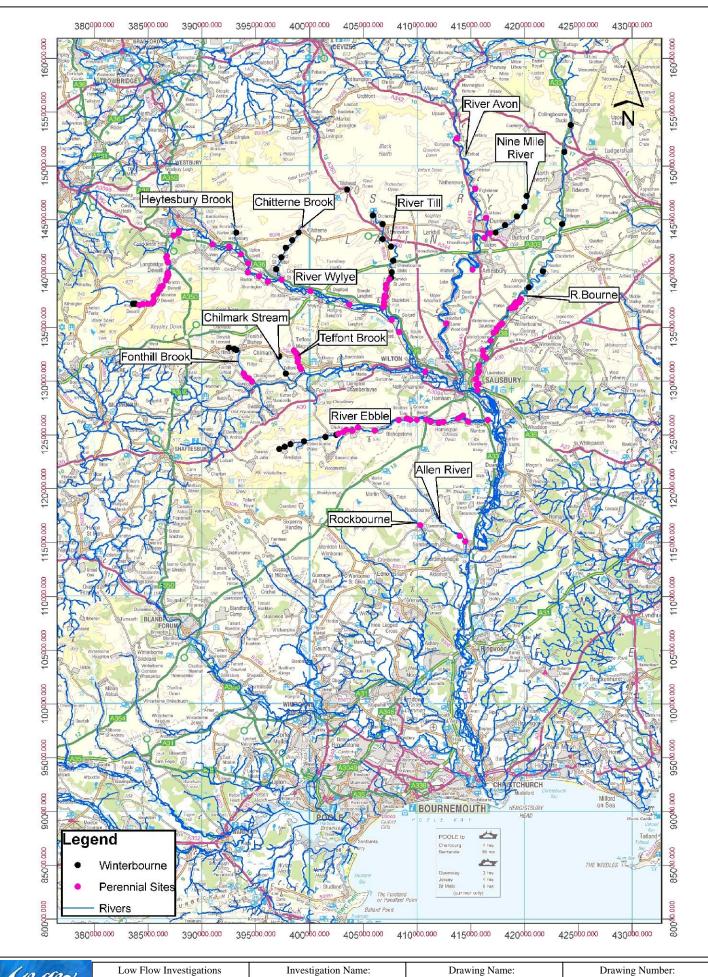


### River Wylye





Low Flow Investigations	Investigation Name:	Drawing Name:	Drawing Number:
B9965	Avon SAC	River Wylye Accretion Profile	Fig 3.20
		following Sustainability Reductions	Final Report



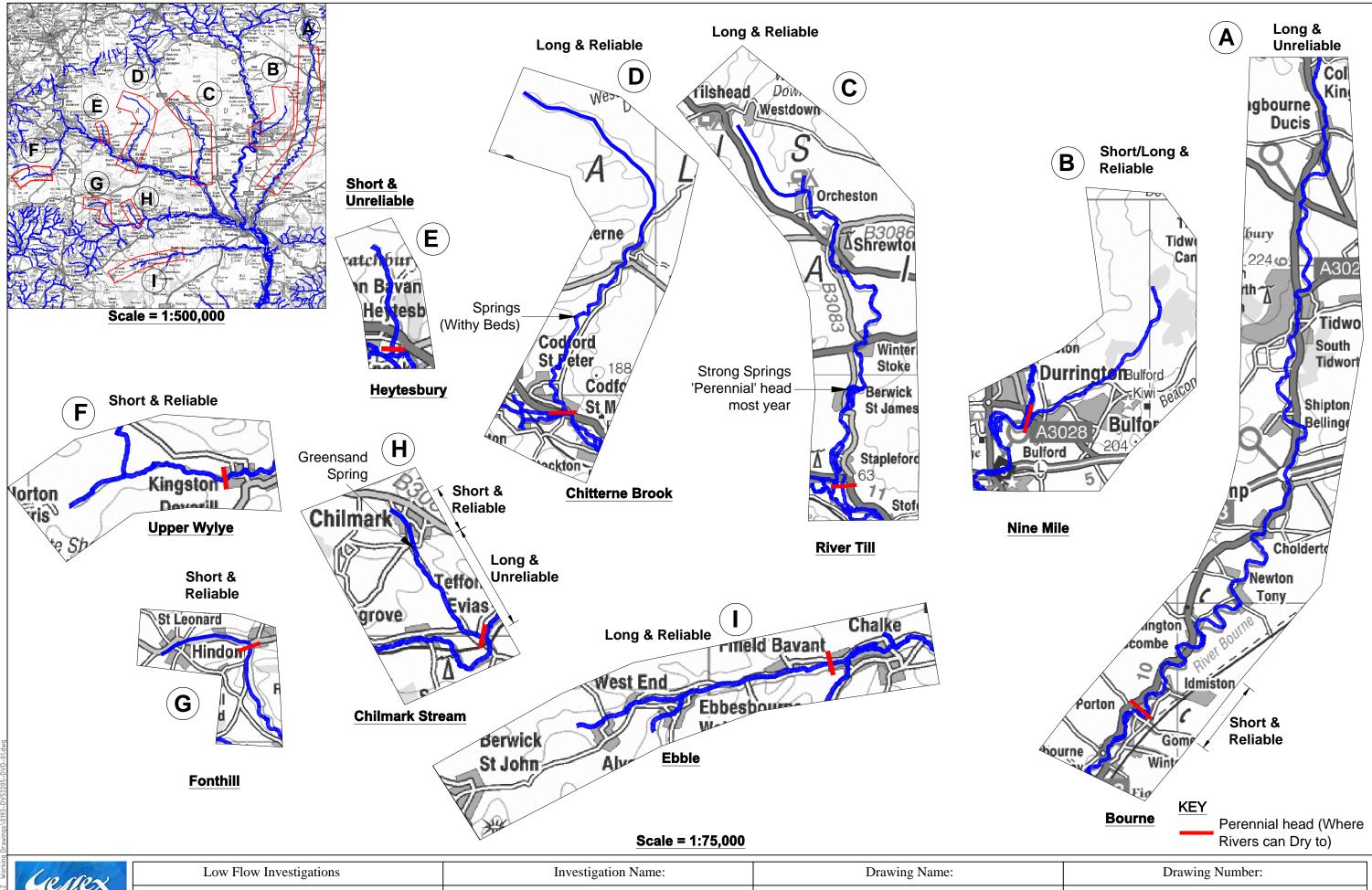
Avon SAC

**Ecological Sampling Location** 

Fig 4.1 Final Report

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B9965



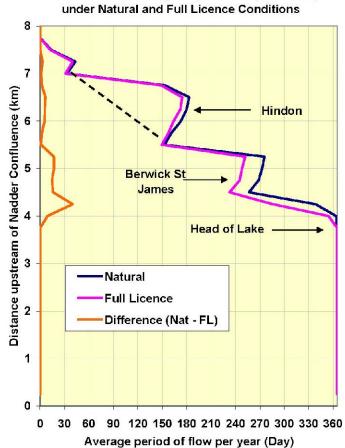
Low Flow Investigations Investigation Name: Drawing Name: Drawing Number:

B9965 Avon SAC Location & Nature of Study Winterbournes Figure 5.2

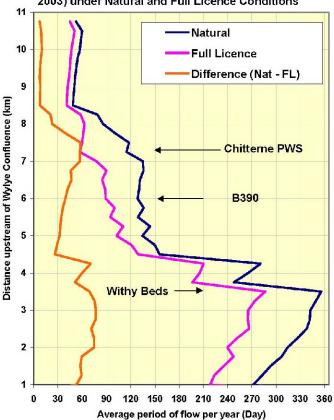
Final Report

River Bourne: Average Days of flow (1970-2003)

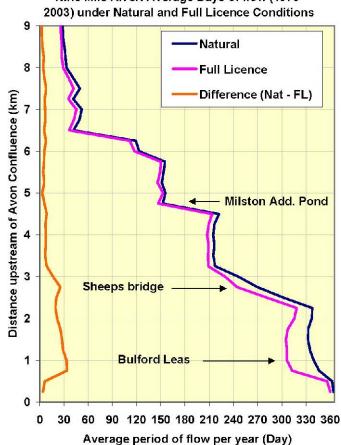




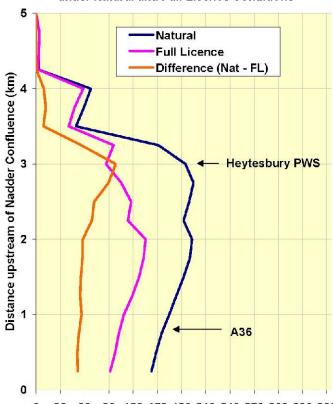




Nine Mile River: Average Days of flow (1970-

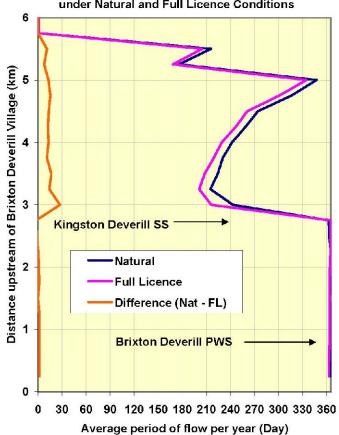


Heytesbury: Average Days of flow (1970-2003) under Natural and Full Licence Conditions



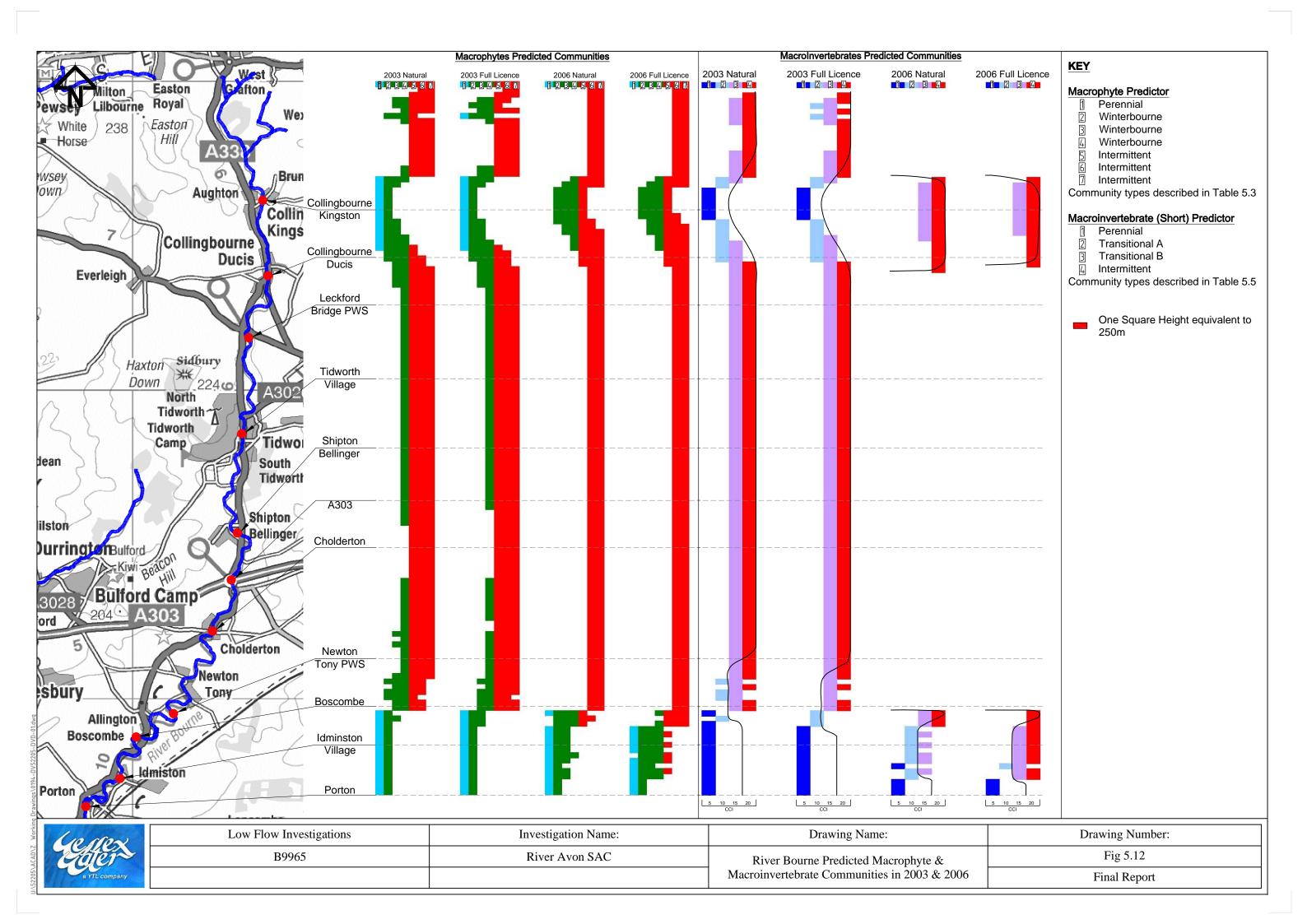
30 60 90 120 150 180 210 240 270 300 330 360 Average period of flow per year (Day)

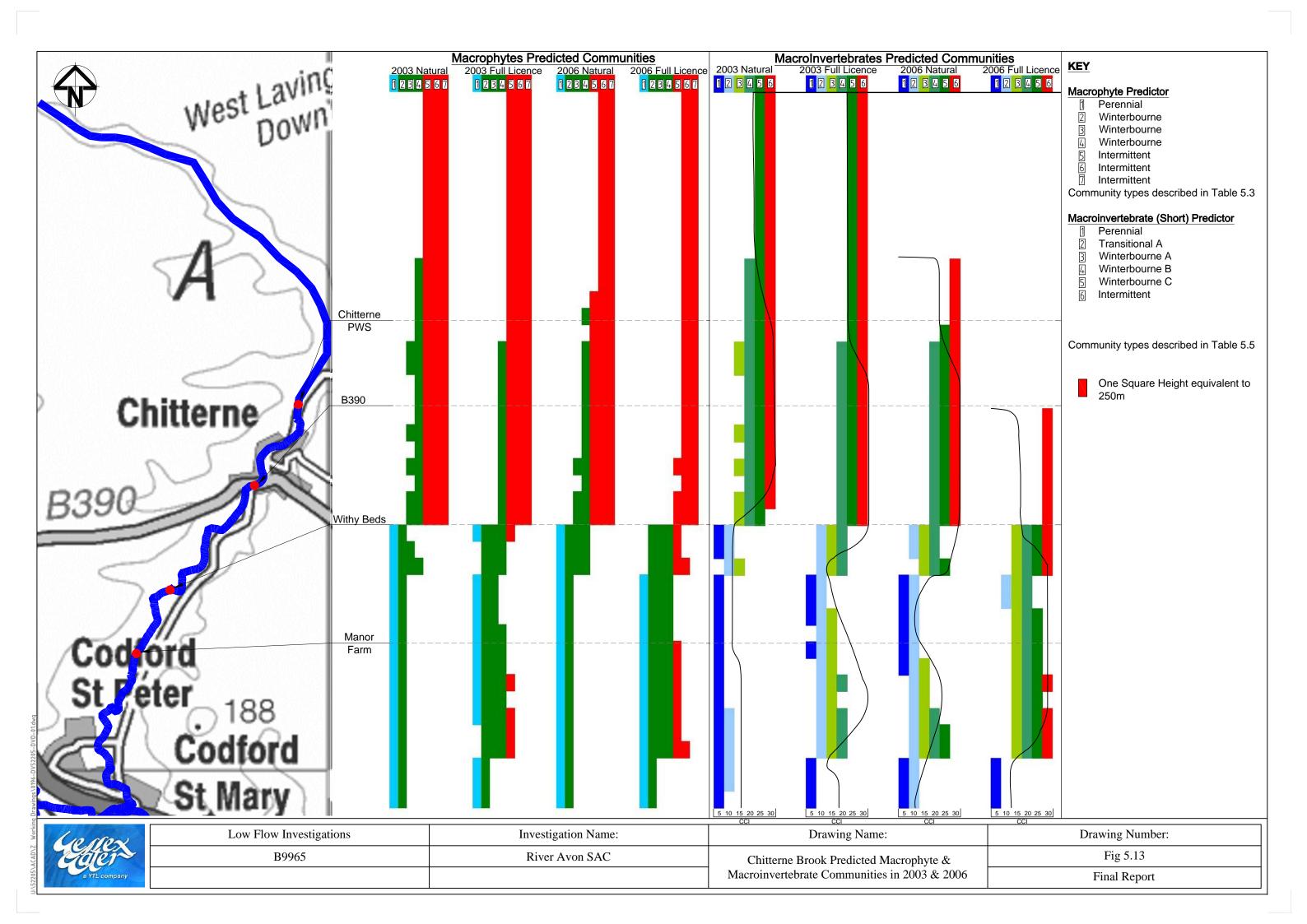
Upper Wylye: Average Days of flow (1970-2003) under Natural and Full Licence Conditions

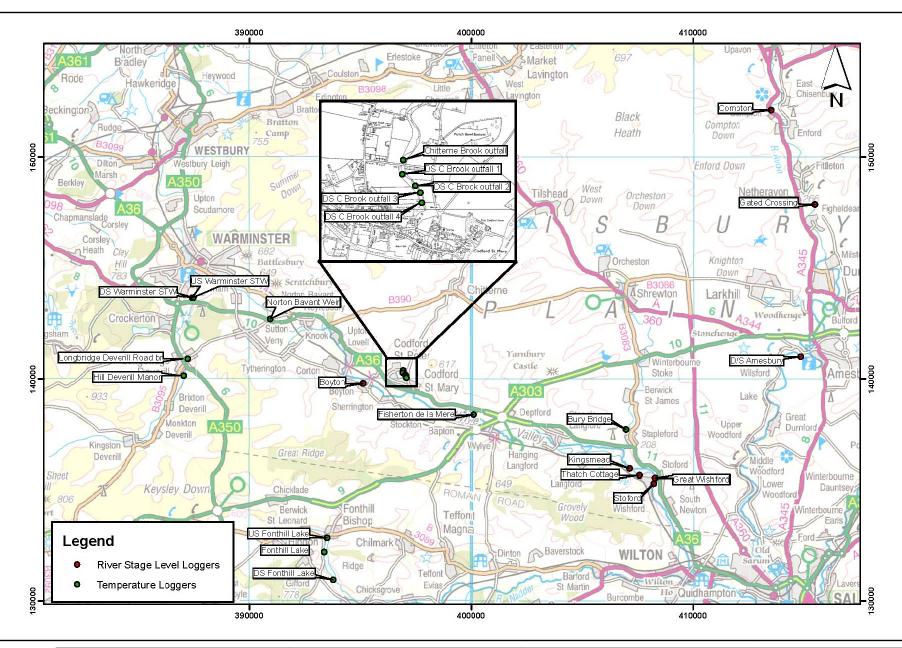


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Low Flow Investigations	Investigation Name:	Drawing Name:	Drawing Number:
B9965	Avon SAC	Winterbourne Average (1970 - 2003) Period of Drying	Fig 5.3
		Under Natural & Full License Conditions	Final Report









Low Flow Investigations	Low Flow Investigations Investigation Name: Dr		Drawing Number:
B9965	Avon SAC	River Temperature & Stage	Figure 6.2
	Logging Locations		Final Report

## 10 Data CD

All the data collected as part of this study is on the CD contained in the wallet attached inside the back cover of the report. The contents of the CD are listed below.

#### DATA PACK

Folder	Title	Туре
	DM-#954906-v1-	
	The_impacts_of_groundwater_abstraction_on_the_plant_community_of_	Word
	the_River_Wylye_and_its_tributaries	
	DM-#921381-v1	Word
	D-River_Avon_SAC_salmon_tech_report	
	DM-#731979-v3-	Excel
	Winterbourne_Signatures  DM-#808105-v2-	
	Avon_substrate_data_summary	Excel
	DM-#936326-v1-	
	Avon_SAC_Macroinvertebrate_Species_Level_Data_AMP4_Final	Excel
Ecology data	DM-#953801-v1-	
Loology data	Avon_SAC_Winterbourne_Macrophyte_Data_AMP4_Final	Excel
	DM-#953927-v1-	
	H_Avon_Winterbourne_Ecology_AMP4_Final_Macroinvertebrate_Spring	Excel
	Data	
	DM-#954410-v1-	
	Historic_macrophyte_presence_absence_data_for_Chitterne_&_	Excel
	Heytesbury	
	DM-#950567-v1-	Word
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	Macroinvertebrate_audit	<del> </del>
River Stage &	River Temperature data	Excel
Temperature	River Stage data	Excel
data	Tinytag & Solinst Logger Locations	PDF
	DM-#868336-v1-	
	Hampshire_Avon_SIMCAT_Investigation_following_sustainability_	Word
	reductions_doc	
	DM-#920872-v2-	Word
	halcrow_7_hatch_report_final	
	DM-#937608-v1	Word
	A-Lower_Wylye_AMP4_investigation  DM-#850690-v1-	
	Hampshire_Avon_GW_Modelrun_log_summary_doc	Word
Misc. Reports	DM-#921381-	
	River Avon SAC salmon tech report	Word
	DM-#954906-	
	MSc Thesis: The impacts of groundwater abstraction on the plant	Word
	community of the R Wylye and its tributaries	
	DM-#859818-v12A-	DDE
	Avon_winterbourne_phase_3_report	PDF
	DM-#954820-v1-	PDF
	APEM_Final_Report_March_08	רטו

# 11 Glossary & Abbreviations

Abstraction	The removal of water from any source, either permanently or temporarily.
Abstraction	The authorisation granted by the Environment Agency to allow the removal of
licence	water from a source.
AMP	An asset management plan is produced by water companies for the industry regulator Ofwat. It sets out the water industry investment programme. These plans are drawn up through consultation with the Environment Agency and other bodies
A CIDIT	to cover a five year period. AMPs have to be agreed by Defra and Ofwat.
ASPT	Average score per taxa- a method for determining the water quality from the invertebrate species present
BAP	Biodiversity action plan.
BFI	Base flow index as defined by the former Institute of Hydrology (now CEH) base
DIT	flow separation technique using a daily average river flow hydrograph. Base flow is the proportion of river flow arising from the ground.
BTO	British Trust for Ornithology
B&WHW	Bournemouth and West Hanmpshire Water
CAMS	Catchment abstraction management strategy; an EA document
CCI	Community Conservation Index
СЕН	Centre for Ecology and Hydrology, incorporates the former Institute of Hydrology (IoH).
CFMP	Catchment flood management plan
CMG	Current meter gauging
CSM	Common standards monitoring (JNCC methodology) for plant monitoring
DO	Dissolved oxygen (measured in water)
EA	Environment Agency - environmental regulators who aim to maintain and improve the condition of water, air and soil quality
EN	English Nature - environmental regulators promoting wildlife and conservation interests
EQIs	Environmental quality indices
FAP	Fisheries action plan
Fauna	Animals, wildlife
Flora Flow Duration	Plants A graph showing the plot of flow versus exceedance value. Thus Q95 (see below)
Curve	will be a low rate of flow, and Q5 will be a high rate of flow.
GIS	Geographical information system
GQA	General quality assessment; monitoring system for surface water quality undertaken by the EA
HAM	Hampshire Avon groundwater Model
JNCC	Joint nature conservation committee – organisation responsible for the designation of wildlife sites
LIFE	Lotic-invertebrate Index for Flow Evaluation – an index of the effect of flow on invertebrate species (e.g. shrimps, fly larvae)
Lst	Limestone
Macroinvertebrate	Aquatic invertebrate species (e.g. shrimps, fly larvae )used as indicators of flow and

	water quality
Macrophyte	Plants (typically aquatic macrophytes which are plants in water)
mAOD	metres above Ordnance datum (altitude)
MFR	Macrophyte flow rank (flow sensitivity score) measure of health of river through
	the plants present
MORECS	Met Office rainfall and evaporation calculation system
MTR	Mean tropic rank (plant survey methodology to measure of health of river)
Ml, Ml/d, Ml/day	MI = megalitres = 1,000,000 litres = 1,000 cubic metres = 1,000 m3 = 220,000
	gallons.
	Ml/d = Ml/day = Ml per day, = tcmd, thousand cubic metres per day.
Ml/a	Ml/a = Ml per year = megalitres per year
Naturalised	The gauged discharge adjusted to take account of net abstractions and discharges
discharge	upstream of the gauging station
NNR	National Nature Reserve (designation to protect the most important areas of wildlife
	habitat and geological formations in Britain, and as places for scientific research.)
NVC	National vegetation classification; method of measuring plant communities
PE	Potential evaporation (the evaporation that would occur if water was never a
	limiting factor. Surface and air temperatures, insulation, and wind all affect this).
PMF	Permitted minimum flow; a level set for river flows below which abstraction must
	be limited
PWS	Public water supply
Q95, Q5	The flow of a river which is equalled or exceeded on average for 95% or 5% of the
	time respectively.
Ramsar	Wetland sites formally listed as wetlands of international importance by the
	secretary of state
RIVPACS	River invertebrate prediction and classification system, a software package allowing
	site-specific comparison of river invertebrates with predicted to determine
DIIG	environmental stress.
RHS	River habitat survey; a river monitoring method
RSA	Restoring sustainable abstraction
Ranunculus	Water crowfoot- a typical plant found in chalk streams; a good indicator of river
	condition
CAC	Carriel and of commutation (designated and on the Property Helicity D' 1
SAC	Special area of conservation (designated under the European Habitats Directive,
CAD	1991) Salmon action plan
SAP	Salmon action plan  Special protection area (classified under the European Birds Directive, 1979)
SPA	Special protection area (classified under the European Birds Directive, 1979), designated for its wetland bird numbers
SS	
	Stream support Site of Special Scientific Interest (a site designated because it is particularly
SSSI	important nature conservation or geological value.)
STW	Sewage treatment works
DI W	Sewage treatment works
Winterbourne	A stream or headwater which dries annually, usually during the summer months
WTW	Water treatment works
WTW	Wetland and Wildfowl Trust
VV VV 1	wenang and whithow thist