



WELSH WATER AUTHORITY
 PLAN NO. RW/0336 I/1
CASTLEMARTIN
SEWAGE TREATMENT WORKS
 This is the Plan referred to
 in the Variation of Consent
 Number RW/ 0336 I/1

WEST WALES DIVISION

FIRST STAGE REVIEW OF CONSENTS

Name of Works: Castlemartin STW
 Type of Effluent: Sewage Effluent - Fully Treated
 Divisional Ref. No. 05



A. BASIC INFORMATION - required for <u>all</u> discharges							
Name of Discharger		Welsh Water Authority					
Name & Location of STW SSO, WTW or premises		Castlemartin STW					
Type of Effluent		Sewage Effluent - <i>fully treated</i>					
Receiving water (Non - Tidal)		Stembridge Stream				OSGR of Outlet*	SR 909 993
Receiving water in 1978 RQO Programme?		1978 Class (NWC)		Short-term RQO		Long-term RQO	
NO		Upstream					
		Downstream					
Existing Effluent Quality		Tot. BOD	BOD (ATU)	S. Solids	Amm. N.	Flow	
	Maximum	63		87	23.3	Design DWF	
	Minimum	1.6		2.0	0.1	30.4 m ³ /d	
	Mean	13		16	2.6	Existing DWF.	
	St. Dev.	12		15	4.2	24 m ³ /d	
	Median	9.5		11.5	1.1	Maximum	
	95%ile	32		42	8.4	X 3 m ³ /d	
Consent	Existing	20		30	-	Weir Setting	
	Proposed		32	42	9.8	1/s	
Conditions						30.4 m ³ /d	
Existing quality data from		64		samples taken since 1 January 19 77		1/s	
Low river flow data:		5 % = < 2000 m ³ /d		Dilution of effluent at low river flow		River : Effluent = 50 : 1	
Existing Consent granted	To:	Pembroke RDC			By:	S W Wales River Board	Date: 11.10.63 amended 10.6.64
B. ADDITIONAL INFORMATION - for sewers/STW serving >1000 pop'n. & other discharges >250 m ³ /d OR if adverse effect likely on PWS abstraction downstream OR if effluent puts receiving water down to a lower quality (sub)class							
Uses of receiving water downstream, giving type of use and distance, especially if affected by effluent in question		Cattle watering. Abstraction for spray irrigation early potatoes. Stream supports a good population of brown trout. Stream very important for land drainage. Flows through Castlemartin Course low lying area of grass land and reed beds.					
Nature and overall proportion of significant trade effluent in sewage		NIL					
If discharge puts receiving water in lower quality (sub) class, state remedial works proposed and date(s)							
Other Information:							
Accurate estimate of low river flow impossible due to high number of abstractions. Main abstraction at Stem Bridge Water Treatment Plant above discharge. Relaxation of the ammonia standard is required to deal with peak summer loadings to the works.							
*Sampling Point (if not outlet)							
Hydrological Reference		61 - 180 / 2.740					