

Data Summary Tables for Severn Trent Water (SVT)

These tables represent a summary of test results from water samples taken by the water company in 2005 and submitted to the Drinking Water Inspectorate.

These tables are published annually by the Inspectorate as part of the Chief Inspector's Report. They are available on the Inspectorate's website at www.dwi.gov.uk

Notes relating to the interpretation of the tables : -

Columns on the following tables that are headed "Maximum" and "Minimum" contain figures for the 1 percentile and 99 percentile sample results except where less than 100 samples were taken, when the figures are the actual maximum and minimum results.

The symbol < indicates that the result was less than the limit of detection of the analytical method used.

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Table SVT 1: Quality of water leaving service treatment works - European Standards

Number of treatment works = 151

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Nitrite	0.1 mg NO ₂ /l	1680	0	<0.002	0.023	0
TOTAL	-	1680	0	-	-	-

Table SVT 2: Quality of water leaving service treatment works - National Standards

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of works with failures
Coliform Bacteria	0 number/100 ml	15159	13	0	0	10
Cryptosporidium	Oocyst concentration / 10 l	2904	0	<0.01	<0.01	0
<i>E. coli</i>	0 number/100 ml	15159	4	0	0	4
TOTAL	-	33222	17	-	-	-

Table SVT 3: Quality of water leaving service treatment works - Additional Monitoring Requirements

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Colony Counts After 3 Days At 22°C	No abnormal change	14862	0	0	29
Colony Counts After 48 Hours At 37°C	No abnormal change	14861	0	0	11
Residual Disinfectant - Free	No abnormal change	15161	0	0.05	1.08
Residual Disinfectant - Total	No abnormal change	15161	0	0.13	1.21
Turbidity	1 NTU	19888	22	<0.05	0.31
TOTAL	-	79933	22	-	-

Table SVT 4: Quality of water leaving service reservoirs - National Standards

Number of service reservoirs = 572

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	0 number/100 ml	29316	19	0	0	0*
<i>E. coli</i>	0 number/100 ml	29316	1	0	0	1
TOTAL	-	58632	20	-	-	-

** It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R0698 Cemmas Road DSR Outlet*

It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R0699 Napton Tank New

It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R0700 Husbands Bosworth DSR

It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R0701 Clwedog DSR

It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R0702 Mixon Hay DSRs Common Outlet

Table SVT 5: Quality of water leaving service reservoirs - Additional Monitoring Requirements

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Minimum	Maximum
Colony Counts After 3 Days At 22°C	No abnormal change	29316	0	159
Colony Counts After 48 Hours At 37°C	No abnormal change	29316	0	22
Residual Disinfectant - Free	No abnormal change	29316	0.02	0.66
Residual Disinfectant - Total	No abnormal change	29316	0.05	0.76
TOTAL	-	117264	-	-

Table SVT 6: Quality of water at consumer's tap (zones) - European Standards

Number of zones = 200

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
1,2 Dichloroethane	3 µg/l	1446	0	<0.08	<0.12	0
Antimony	5 µg Sb/l	1442	0	<0.24	1.1	0
Arsenic	10 µg As/l	1444	0	<0.5	6.5	0
Benzene	1 µg/l	1446	0	<0.06	<0.15	0
Benzo (a) Pyrene	0.01 µg/l	1446	1	<0.001	0.001	1
Boron	1 mg B/l	1443	0	<0.01	0.21	0
Bromate	10 µg BrO ₃ /l	1447	0	<0.6	2.1	0
Cadmium	5 µg Cd/l	1442	0	<0.23	0.966	0
Chromium	50 µg Cr/l	1442	0	<0.34	2.157	0
Copper	2 mg Cu/l	1443	0	<0.001	0.539	0
Cyanide	50 µg CN/l	1449	0	<0.22	1.365	0
<i>E. coli</i>	0 number/100 ml	18923	4	0	0	4
Enterococci	0 number/100 ml	1440	0	0	0	0
Fluoride	1.5 mg F/l	1446	1	<0.04	1.095	1
Lead	25 µg Pb/l	1444	5	<1	13.55	5
Mercury	1 µg Hg/l	1448	0	<0.015	0.056	0
Nickel	20 µg Ni/l	1443	3	<1.4	7.956	3
Nitrate	50 mg NO ₃ /l	1726	1	1.003	45.873	1
Nitrite	0.5 mg NO ₂ /l	1726	0	<0.002	0.045	0
Nitrate/Nitrite Formula	≤ 1	1724	0	<0.26	0.92	1
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/l	1447	0	0	0.003	0
Selenium	10 µg Se/l	1442	0	<0.44	2.757	0
Tetrachloroethene/Trichloroethene	10 µg/l	1447	0	0	1.87	0
Trihalomethanes (THMs)	100 µg/l	1446	0	0.249	80.259	0
Pesticides (2,3,6-Tba)	0.1 µg/l	284	0	<0.002	<0.002	0
Pesticides (2,4,5-T)	0.1 µg/l	284	0	<0.003	<0.003	0
Pesticides (2,4,-Db)	0.1 µg/l	283	0	<0.003	<0.003	0
Pesticides (2,4-D)	0.1 µg/l	282	0	<0.003	0.039	0
Pesticides (Aldrin)	0.03 µg/l	1499	0	<0.002	<0.002	0
Pesticides (Alpha-HCH)	0.1 µg/l	1496	0	<0.001	<0.001	0
Pesticides (Ametryn)	0.1 µg/l	88	0	<0.002	<0.002	0
Pesticides (Atrazine)	0.1 µg/l	88	0	<0.001	0.052	0
Pesticides (Benazolin)	0.1 µg/l	284	0	<0.002	0.003	0
Pesticides (Bentazone)	0.1 µg/l	284	0	<0.005	<0.005	0
Pesticides (Beta-HCH)	0.1 µg/l	1497	0	<0.002	<0.002	0

Pesticides (Bromacil)	0.1 µg/l	88	0	<0.012	<0.012	0
Pesticides (Bromoxynil)	0.1 µg/l	284	0	<0.001	0.003	0
Pesticides (Captan)	0.1 µg/l	88	0	<0.007	0.038	0
Pesticides (Carbendazim)	0.1 µg/l	48	0	<0.002	<0.003	0
Pesticides (Carbetamide)	0.1 µg/l	48	0	<0.002	<0.03	0
Pesticides (Chlordane-Alpha)	0.1 µg/l	1496	0	<0.002	<0.002	0
Pesticides (Chlorothalonil)	0.1 µg/l	1494	0	<0.001	<0.001	0
Pesticides (Chlortoluron)	0.1 µg/l	48	0	<0.002	<0.004	0
Pesticides (Clopyralid)	0.1 µg/l	282	0	<0.005	0.019	0
Pesticides (Cyanazine)	0.1 µg/l	88	0	<0.002	0.011	0
Pesticides (Cyfluthrin)	0.1 µg/l	1496	0	<0.04	<0.04	0
Pesticides (Cypermethrin)	0.1 µg/l	1496	0	<0.04	<0.04	0
Pesticides (Delta-HCH)	0.1 µg/l	1496	0	<0.002	<0.002	0
Pesticides (Deltamethrin)	0.1 µg/l	1481	0	<0.02	<0.02	0
Pesticides (Dicamba)	0.1 µg/l	284	0	<0.001	0.0183	0
Pesticides (Dichlobenil)	0.1 µg/l	1496	0	<0.001	0.001	0
Pesticides (Dichlorprop)	0.1 µg/l	284	0	<0.002	<0.002	0
Pesticides (Dieldrin)	0.03 µg/l	1493	0	<0.002	<0.002	0
Pesticides (Diflufenican)	0.1 µg/l	88	0	<0.004	<0.004	0
Pesticides (Diuron)	0.1 µg/l	48	0	<0.003	<0.004	0
Pesticides (Endosulfan A (alpha-Endosulfan))	0.1 µg/l	1488	0	<0.001	<0.001	0
Pesticides (Endosulfan B (beta-Endosulfan))	0.1 µg/l	1488	0	<0.004	<0.004	0
Pesticides (Endrin)	0.1 µg/l	1479	0	<0.002	<0.002	0
Pesticides (EPTC)	0.1 µg/l	88	0	<0.001	<0.001	0
Pesticides (Ethofumersate)	0.1 µg/l	88	0	<0.002	<0.002	0
Pesticides (Fenoprop)	0.1 µg/l	284	0	<0.003	<0.006	0
Pesticides (Fenpropidin)	0.1 µg/l	88	0	<0.003	<0.003	0
Pesticides (Fenpropimorph)	0.1 µg/l	88	0	<0.006	<0.006	0
Pesticides (Fenvalerate)	0.1 µg/l	1484	0	<0.02	<0.02	0
Pesticides (Fluroxypyr)	0.1 µg/l	282	0	<0.003	0.022	0
Pesticides (Flutriafol)	0.1 µg/l	88	0	<0.002	0.002	0
Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	1493	0	<0.002	<0.002	0
Pesticides (Heptachlor)	0.03 µg/l	1498	0	<0.002	<0.002	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	1497	0	<0.002	<0.002	0
Pesticides (Hexachlorobenzene)	0.1 µg/l	1496	0	<0.001	<0.001	0
Pesticides (Hexachlorobutadiene)	0.1 µg/l	1497	0	<0.002	<0.002	0
Pesticides (Ioxynil)	0.1 µg/l	284	0	<0.002	<0.002	0
Pesticides (Iprodione)	0.1 µg/l	25	0	<0.003	<0.01	0
Pesticides (Isodrin)	0.1 µg/l	1496	0	<0.002	<0.002	0
Pesticides (Isoproturon)	0.1 µg/l	48	0	<0.003	0.023	0
Pesticides (Linuron)	0.1 µg/l	48	0	<0.003	<0.007	0

Pesticides (MCPA)	0.1 µg/l	283	0	<0.002	0.028	0
Pesticides (MCPB)	0.1 µg/l	284	0	<0.006	<0.006	0
Pesticides (MCPB(Mecoprop))	0.1 µg/l	284	2	<0.001	0.097	2
Pesticides (Metamitron)	0.1 µg/l	48	0	<0.002	<0.004	0
Pesticides (Metazachlor)	0.1 µg/l	88	0	<0.002	0.052	0
Pesticides (Methabenzthiazuron)	0.1 µg/l	48	0	<0.002	<0.005	0
Pesticides (Methoxychlor)	0.1 µg/l	1477	0	<0.002	<0.002	0
Pesticides (Monuron)	0.1 µg/l	48	0	<0.002	<0.005	0
Pesticides (op-DDD (TDE))	0.1 µg/l	1496	0	<0.002	<0.002	0
Pesticides (op-DDE)	0.1 µg/l	1497	0	<0.002	<0.002	0
Pesticides (op-DDT)	0.1 µg/l	1497	0	<0.002	<0.002	0
Pesticides (PCB - Arochlor 1254)	0.1 µg/l	1496	0	<0.003	<0.003	0
Pesticides (Pendimethalin)	0.1 µg/l	88	0	<0.003	<0.003	0
Pesticides (Permethrin-cis)	0.1 µg/l	1497	0	<0.001	<0.001	0
Pesticides (Permethrin-trans)	0.1 µg/l	1497	0	<0.002	<0.002	0
Pesticides (Pirimicarb)	0.1 µg/l	88	0	<0.001	<0.001	0
Pesticides (pp-DDD (TDE))	0.1 µg/l	1497	0	<0.002	<0.002	0
Pesticides (pp-DDE)	0.1 µg/l	1497	0	<0.002	<0.002	0
Pesticides (pp-DDT)	0.1 µg/l	1497	0	<0.002	<0.002	0
Pesticides (Prometryn)	0.1 µg/l	88	0	<0.002	<0.002	0
Pesticides (Propachlor)	0.1 µg/l	88	0	<0.002	0.005	0
Pesticides (Propazine)	0.1 µg/l	88	0	<0.001	0.002	0
Pesticides (Propiconazole)	0.1 µg/l	88	0	<0.002	0.002	0
Pesticides (Propyzamide)	0.1 µg/l	88	0	<0.002	0.009	0
Pesticides (Simazine)	0.1 µg/l	88	0	<0.001	0.019	0
Pesticides (Tecnazene)	0.1 µg/l	88	0	<0.001	<0.001	0
Pesticides (Terbutryn)	0.1 µg/l	88	0	<0.002	<0.002	0
Pesticides (Triadimefon)	0.1 µg/l	88	0	<0.002	0.009	0
Pesticides (Tri-allate)	0.1 µg/l	88	0	<0.001	<0.001	0
Pesticides (Trichlopyr)	0.1 µg/l	284	0	<0.004	0.023	0
Pesticides (Trichlorobenzene)	0.1 µg/l	1484	0	<0.001	<0.001	0
Pesticides (Trietazine)	0.1 µg/l	88	0	<0.001	<0.001	0
Pesticides (Trifluralin)	0.1 µg/l	88	0	<0.002	0.003	0
Pesticides - Total Substances	0.5 µg/l	1500	0	0	0.067	0
TOTAL	-	109845	18	-	-	-

Table SVT 7: Quality of water at consumer's tap (zones) - National Standards

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
Aluminium	200 µg Al/l	4752	4	<5	79.47	4
Colour	20 mg/l Pt/Co scale	3691	0	<0.4	3.5	0
Hydrogen ion (pH)	6.5 - 10 pH value	5740	2	6.8	8.9	2
Iron	200 µg Fe/l	5512	17	<7	118.87	16
Manganese	50 µg Mn/l	3996	3	<1.5	11	3
Organoleptic Odour	Dilution No. 3 at 25°C	3996	1	0	0	1
Organoleptic Taste	Dilution No. 3 at 25°C	3995	3	0	0	3
Sodium	200 mg Na/l	1443	0	4.2	107.12	0
Tetrachloromethane	3 µg/l	1447	0	<0.02	0.07	0
Turbidity	4 NTU	4937	2	<0.05	0.5162	2
TOTAL	-	39509	32	-	-	-

Table SVT 8: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Ammonium	0.5 mg NH ₄ /l	4009	0	<0.021	0.147
Chloride	250 mg Cl/l	1442	0	7.9	113
<i>Clostridium perfringens</i>	0 number/100 ml	3354	4	0	0
Coliform Bacteria	0 number/100 ml	18923	66	0	0
Colony Counts After 3 Days At 22°C	No abnormal change	6724	0	0	120
Colony Counts After 48 Hours At 37°C	No abnormal change	6724	0	0	65
Conductivity	2500 µS/cm	3691	0	100	881.32
Hydrogen ion (pH)	9.5 pH Value	5740	0	6.8	8.9
Radioactivity - Gross Alpha	0.1 Bq/l	1446	0	<0.01	0.283
Radioactivity - Gross Beta	1 Bq/l	1446	0	0.016	0.23
Residual Disinfectant - Free	No abnormal change	18925	0	0.01	0.51
Residual Disinfectant - Total	No abnormal change	18925	0	0.04	0.62
Sulphate	250 mg SO ₄ /l	1442	0	6.843	190.57
Total Organic Carbon (TOC)	No abnormal change	1448	0	0.55	3.875
TOTAL	-	94239	70	-	-