

Data Summary Tables for Dŵr Cymru Welsh Water (DWR)

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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Drinking Water Inspectorate
55, Whitehall
London
SW1A 2EY

Enquiries : 020 7082 8024

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

Number of treatment works = 94

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	746	0	<0.002	0.031	0
TOTAL	-	746	0	-	-	-

Table DWR 2: Quality of water leaving water 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	6971	5	0	0	2
Cryptosporidium	Oocyst concentration / 10 l	5754	0	0.009	0.015	0
<i>E. coli</i>	0 number/100 ml	6972	0	0	0	0
TOTAL	-	19697	5	-	-	-

Table DWR 3: Quality of water leaving water 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	6966	0	<1	39
Colony Counts After 48 Hours At 37°C	No abnormal change	6966	0	<1	11
Residual Disinfectant - Free	No abnormal change	6982	0	0.08	1.4
Residual Disinfectant - Total	No abnormal change	6981	0	0.3	1.5
Turbidity	1 NTU	11603	20	<0.05	0.49
TOTAL	-	39498	20	-	-

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

Number of service reservoirs = 557

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of reservoirs failing standard
Coliform Bacteria	0 number/100 ml	23180	13	0	0	0*
<i>E. coli</i>	0 number/100 ml	23180	0	0	0	0
TOTAL	-	46360	13	-	-	-

* R124008 FELINWYNT RESERVOIR OUTLET, R124032 HAVERFORDWEST PORTFIELD RESERVOIR OUTLET, R124130 PENTLEPOIR RESERVOIR OUTLET, R124212 PENWALLIS SRV OUTLET (NUMBER 1), R49426 FITZROY SERVICE RESERVOIR, R49488 CRUCORNEY ELEVATED TANK, R49530 GAER FAWR S RES - CONTENTS, R54216 EARLSWOOD SERVICE RES, R54614 ROGERSTONE GRANGE RES., R54626 SHIRENEWTON RES, R645336 LLANFACHRETH S.R. (2021B19), R645342 MYNYDD BYCHAN S.R. (2021B28), R645375 GANLLWYD S.R. (2021B19), R79055 SIGGINGSTONE SERVICE RESERVOIR NO.2 breach(es) regulation 14 for an unjustified sampling shortfall

It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R126050 LLANGUNNOR RESERVOIR OUTLET

It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R49431 BRYNYGWENIN TANK

It is not possible to identify a dataset of 50 samples to enable assessment of compliance with 95% standard for R54614 ROGERSTONE GRANGE RES.

Table DWR 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	23174	<1	66
Colony Counts After 48 Hours At 37°C	No abnormal change	23173	<1	6
Residual Disinfectant - Free	No abnormal change	23191	0.02	0.86
Residual Disinfectant - Total	No abnormal change	23191	<0.1	1.12
TOTAL	-	92729	-	-

Table DWR 6: Quality of water leaving bulk supply points - European Standards

Number of supply points = 37

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
1,2 Dichloroethane	3 µg/l	263	0	<0.08	<0.12	0
Benzene	1 µg/l	263	0	<0.06	<0.15	0
Boron	1 mg B/l	263	0	<0.013	0.041	0
Bromate	10 µg BrO ₃ /l	70	0	<0.001	0.005	0
Cyanide	50 µg CN/l	263	0	<0.246	1.128	0
Fluoride	1.5 mg F/l	263	0	<0.04	<0.4	0
Mercury	1 µg Hg/l	262	0	<0.015	0.027	0
Tetrachloroethene/Trichloroethene	10 µg/l	228	0	0	<0.28	0
Pesticides (2,4,5-T)	0.1 µg/l	192	0	<0.003	<0.003	0
Pesticides (2,4,-Db)	0.1 µg/l	189	0	<0.003	<0.005	0
Pesticides (2,4-D)	0.1 µg/l	189	0	<0.003	0.05	0
Pesticides (Aldrin)	0.03 µg/l	272	0	<0.002	<0.002	0
Pesticides (Alpha-HCH)	0.1 µg/l	272	0	<0.001	<0.001	0
Pesticides (Asulam)	0.1 µg/l	190	0	<0.005	<0.015	0
Pesticides (Atrazine)	0.1 µg/l	263	0	<0.001	0.023	0
Pesticides (Benazolin)	0.1 µg/l	192	0	<0.002	<0.002	0
Pesticides (Beta-HCH)	0.1 µg/l	272	0	<0.002	<0.002	0
Pesticides (Bromoxynil)	0.1 µg/l	192	0	<0.001	0.008	0
Pesticides (Captan)	0.1 µg/l	263	0	<0.007	<0.007	0
Pesticides (Carbendazim)	0.1 µg/l	112	0	<0.002	<0.003	0
Pesticides (Chlorfenvinphos)	0.1 µg/l	265	0	<0.009	<0.015	0
Pesticides (Chlorothalonil)	0.1 µg/l	270	0	<0.001	<0.012	0
Pesticides (Chlorpyrifos)	0.1 µg/l	266	0	<0.003	<0.006	0
Pesticides (Chlortoluron)	0.1 µg/l	112	0	<0.002	<0.004	0
Pesticides (Diazinon)	0.1 µg/l	266	0	<0.005	<0.008	0
Pesticides (Dicamba)	0.1 µg/l	192	0	<0.001	<0.001	0
Pesticides (Dichlofluanid)	0.1 µg/l	264	0	<0.013	<0.021	0
Pesticides (Dichlorprop)	0.1 µg/l	192	0	<0.002	<0.002	0
Pesticides (Dieldrin)	0.03 µg/l	270	0	<0.002	<0.002	0
Pesticides (Diuron)	0.1 µg/l	112	0	<0.003	0.029	0
Pesticides (Endosulfan A (alpha-Endosulfan))	0.1 µg/l	271	0	<0.001	<0.001	0
Pesticides (Endosulfan B (beta-Endosulfan))	0.1 µg/l	270	0	<0.004	<0.004	0
Pesticides (Endrin)	0.1 µg/l	270	0	<0.002	<0.002	0
Pesticides (Ethofumersate)	0.1 µg/l	263	0	<0.002	<0.002	0
Pesticides (Fenpropidin)	0.1 µg/l	263	0	<0.003	<0.003	0
Pesticides (Fenpropimorph)	0.1 µg/l	263	0	<0.006	<0.006	0

Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	269	0	<0.002	<0.002	0
Pesticides (Glyphosate)	0.1 µg/l	35	0	<0.008	<0.008	0
Pesticides (Heptachlor)	0.03 µg/l	272	0	<0.002	<0.002	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	270	0	<0.002	<0.002	0
Pesticides (Hexachlorobenzene)	0.1 µg/l	272	0	<0.001	<0.001	0
Pesticides (Ioxynil)	0.1 µg/l	192	0	<0.002	<0.004	0
Pesticides (Isoproturon)	0.1 µg/l	112	0	<0.003	0.007	0
Pesticides (Linuron)	0.1 µg/l	112	0	<0.003	<0.007	0
Pesticides (MCPA)	0.1 µg/l	192	0	<0.002	0.03	0
Pesticides (MCPB)	0.1 µg/l	192	0	<0.006	<0.007	0
Pesticides (MCPB(Mecoprop))	0.1 µg/l	192	0	<0.001	0.019	0
Pesticides (Metamitron)	0.1 µg/l	112	0	<0.002	<0.004	0
Pesticides (Methabenzthiazuron)	0.1 µg/l	112	0	<0.002	<0.005	0
Pesticides (op-DDD (TDE))	0.1 µg/l	272	0	<0.002	<0.002	0
Pesticides (op-DDE)	0.1 µg/l	272	0	<0.002	<0.002	0
Pesticides (op-DDT)	0.1 µg/l	272	0	<0.002	<0.002	0
Pesticides (Parathion (Parathion ethyl))	0.1 µg/l	265	0	<0.005	<0.008	0
Pesticides (Pentachlorophenol)	0.1 µg/l	192	0	<0.004	<0.004	0
Pesticides (Permethrin)	0.1 µg/l	272	0	<0.003	<0.003	0
Pesticides (pp-DDD (TDE))	0.1 µg/l	272	0	<0.002	<0.002	0
Pesticides (pp-DDE)	0.1 µg/l	272	0	<0.002	<0.002	0
Pesticides (pp-DDT)	0.1 µg/l	272	0	<0.002	<0.002	0
Pesticides (Propachlor)	0.1 µg/l	263	0	<0.002	<0.002	0
Pesticides (Propazine)	0.1 µg/l	263	0	<0.001	<0.001	0
Pesticides (Propetamphos)	0.1 µg/l	266	0	<0.004	<0.008	0
Pesticides (Propyzamide)	0.1 µg/l	263	0	<0.002	<0.002	0
Pesticides (Simazine)	0.1 µg/l	263	0	<0.001	0.005	0
Pesticides (Terbutryn)	0.1 µg/l	263	0	<0.002	<0.002	0
Pesticides (Trietazine)	0.1 µg/l	263	0	<0.001	<0.001	0
Pesticides (Trifluralin)	0.1 µg/l	263	0	<0.002	<0.002	0
Pesticides - Total Substances	0.5 µg/l	263	0	0	0.054	0
TOTAL	-	15347	0	-	-	-

Table DWR 7: Quality of water leaving bulk supply points - National Standards

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	Failures by supply point
Tetrachloromethane	3 µg/l	263	0	<0.02	0.076	0
TOTAL	-	263	0	-	-	-

Table DWR 8: Quality of water leaving bulk supply points - Additional Monitoring Requirements

Indicator Parameter	Prescribed Concentration or Value	Total number of tests	Tests Exceeding Specification	Minimum	Maximum
Chloride	250 mg Cl/l	263	0	6.464	76.628
<i>Clostridium perfringens</i>	0 number/100 ml	1700	0	0	0
Conductivity	2500 µS/cm	1701	0	55.02	762
Radioactivity - Gross Alpha	0.1 Bq/l	262	1	<0.008	0.069
Radioactivity - Gross Beta	1 Bq/l	262	0	0.01	0.111
Radioactivity - Tritium	100 Bq/l	263	0	<1.5	<4.164
Sulphate	250 mg SO ₄ /l	263	0	<2.1	71.508
Total Organic Carbon (TOC)	No abnormal change	263	0	<0.186	2.094
TOTAL	-	4977	1	-	-

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Table DWR 9: Quality of water at consumer's tap (zones) - European Standards

Number of zones = 91

Parameter	Prescribed Concentration or Value	Total number of tests	Tests failed	Minimum	Maximum	No. of zones with failures
1,2 Dichloroethane	3 µg/l	375	0	<0.08	<0.12	0
Antimony	5 µg Sb/l	649	0	<0.24	<0.24	0
Arsenic	10 µg As/l	649	0	<0.5	1.15	0
Benzene	1 µg/l	375	0	<0.06	<0.15	0
Benzo (a) Pyrene	0.01 µg/l	653	1	<0.001	<0.001	1
Boron	1 mg B/l	375	0	<0.013	0.025	0
Bromate	10 µg BrO ₃ /l	588	1	<0.001	0.006	1
Cadmium	5 µg Cd/l	649	0	<0.23	<0.23	0
Chromium	50 µg Cr/l	649	0	<0.34	1.15	0
Copper	2 mg Cu/l	649	0	<0.001	0.18	0
Cyanide	50 µg CN/l	375	0	<0.4	1.5	0
<i>E. coli</i>	0 number/100 ml	7720	1	0	0	1
Enterococci	0 number/100 ml	647	0	0	0	0
Fluoride	1.5 mg F/l	377	0	<0.04	0.06	0
Lead	25 µg Pb/l	649	1	<1	8.65	1
Mercury	1 µg Hg/l	375	0	<0.015	0.023	0
Nickel	20 µg Ni/l	649	0	<0.001	0.003	0
Nitrate	50 mg NO ₃ /l	931	0	<0.26	23.186	0
Nitrite	0.5 mg NO ₂ /l	934	3	<0.002	0.352	2
Nitrate/Nitrite Formula	≤ 1	865	0	0	0.471	0
Polycyclic aromatic hydrocarbons (PAHs)	0.1 µg/l	650	0	0	0.003	0
Selenium	10 µg Se/l	649	0	<0.44	0.685	0
Tetrachloroethene/Trichloroethene	10 µg/l	375	0	0	0	0
Trihalomethanes (THMs)	100 µg/l	649	2	2.825	88.13	2
Pesticides (2,4,5-T)	0.1 µg/l	339	0	<0.003	<0.003	0
Pesticides (2,4,-Db)	0.1 µg/l	337	0	<0.003	<0.003	0
Pesticides (2,4-D)	0.1 µg/l	337	0	<0.003	0.037	0
Pesticides (Aldrin)	0.03 µg/l	388	0	<0.002	<0.002	0
Pesticides (Alpha-HCH)	0.1 µg/l	388	0	<0.001	<0.001	0
Pesticides (Asulam)	0.1 µg/l	359	0	<0.005	<0.007	0
Pesticides (Atrazine)	0.1 µg/l	375	0	<0.001	0.056	0
Pesticides (Benazolin)	0.1 µg/l	339	0	<0.002	<0.002	0
Pesticides (Beta-HCH)	0.1 µg/l	388	0	<0.002	<0.002	0
Pesticides (Bromoxynil)	0.1 µg/l	339	0	<0.001	0.003	0
Pesticides (Captan)	0.1 µg/l	375	0	<0.007	<0.007	0

Pesticides (Carbendazim)	0.1 µg/l	267	0	<0.002	<0.003	0
Pesticides (Chlorfenvinphos)	0.1 µg/l	378	0	<0.009	<0.009	0
Pesticides (Chlorothalonil)	0.1 µg/l	387	0	<0.001	<0.001	0
Pesticides (Chlorpyrifos)	0.1 µg/l	378	0	<0.003	<0.003	0
Pesticides (Chlortoluron)	0.1 µg/l	267	0	<0.002	<0.004	0
Pesticides (Diazinon)	0.1 µg/l	378	0	<0.005	<0.005	0
Pesticides (Dicamba)	0.1 µg/l	339	0	<0.001	<0.001	0
Pesticides (Dichlofluanid)	0.1 µg/l	377	0	<0.013	<0.013	0
Pesticides (Dichlorprop)	0.1 µg/l	339	0	<0.002	<0.004	0
Pesticides (Dieldrin)	0.03 µg/l	386	0	<0.002	<0.002	0
Pesticides (Diuron)	0.1 µg/l	267	0	<0.003	0.023	0
Pesticides (Endosulfan A (alpha-Endosulfan))	0.1 µg/l	386	0	<0.001	<0.001	0
Pesticides (Endosulfan B (beta-Endosulfan))	0.1 µg/l	387	0	<0.004	<0.004	0
Pesticides (Endrin)	0.1 µg/l	387	0	<0.002	<0.002	0
Pesticides (Ethofumersate)	0.1 µg/l	375	0	<0.002	<0.002	0
Pesticides (Fenpropidin)	0.1 µg/l	375	0	<0.003	<0.003	0
Pesticides (Fenpropimorph)	0.1 µg/l	375	0	<0.006	<0.006	0
Pesticides (Gamma-HCH (Lindane))	0.1 µg/l	385	0	<0.002	<0.002	0
Pesticides (Glyphosate)	0.1 µg/l	151	0	<0.008	<0.008	0
Pesticides (Heptachlor)	0.03 µg/l	388	0	<0.002	<0.002	0
Pesticides (Heptachlor epoxide)	0.03 µg/l	385	0	<0.002	<0.002	0
Pesticides (Hexachlorobenzene)	0.1 µg/l	388	0	<0.001	<0.001	0
Pesticides (Ioxynil)	0.1 µg/l	339	0	<0.002	<0.002	0
Pesticides (Isoproturon)	0.1 µg/l	267	0	<0.003	0.009	0
Pesticides (Linuron)	0.1 µg/l	267	0	<0.003	<0.007	0
Pesticides (Mancozeb (a Dithiocarbamate Fungicide))	0.1 µg/l	41	0	<0.05	<0.1	0
Pesticides (MCPA)	0.1 µg/l	339	0	<0.002	0.018	0
Pesticides (MCPB)	0.1 µg/l	339	0	<0.006	<0.006	0
Pesticides (MCPP(Mecoprop))	0.1 µg/l	339	1	<0.001	0.014	1
Pesticides (Metamitron)	0.1 µg/l	267	0	<0.002	<0.004	0
Pesticides (Methabenzthiazuron)	0.1 µg/l	267	0	<0.002	<0.005	0
Pesticides (op-DDD (TDE))	0.1 µg/l	388	0	<0.002	<0.002	0
Pesticides (op-DDE)	0.1 µg/l	388	0	<0.002	<0.002	0
Pesticides (op-DDT)	0.1 µg/l	388	0	<0.002	<0.002	0
Pesticides (Parathion (Parathion ethyl))	0.1 µg/l	377	0	<0.005	<0.005	0
Pesticides (Pentachlorophenol)	0.1 µg/l	339	0	<0.004	<0.004	0
Pesticides (Permethrin)	0.1 µg/l	388	0	<0.003	<0.003	0
Pesticides (pp-DDD (TDE))	0.1 µg/l	388	0	<0.002	<0.002	0
Pesticides (pp-DDE)	0.1 µg/l	388	0	<0.002	<0.002	0
Pesticides (pp-DDT)	0.1 µg/l	388	0	<0.002	<0.002	0
Pesticides (Propachlor)	0.1 µg/l	375	0	<0.002	<0.002	0

Pesticides (Propazine)	0.1 µg/l	375	0	<0.001	<0.001	0
Pesticides (Propetamphos)	0.1 µg/l	378	0	<0.004	<0.004	0
Pesticides (Propyzamide)	0.1 µg/l	375	0	<0.002	0.014	0
Pesticides (Simazine)	0.1 µg/l	375	0	<0.001	0.009	0
Pesticides (Terbutryn)	0.1 µg/l	375	0	<0.002	<0.002	0
Pesticides (Trietazine)	0.1 µg/l	375	0	<0.001	<0.001	0
Pesticides (Trifluralin)	0.1 µg/l	375	0	<0.002	<0.002	0
Pesticides (Triphenyltin (fentin))	0.1 µg/l	24	0	<0.02	<0.05	0
Pesticides - Total Substances	0.5 µg/l	376	0	0	0.098	0
TOTAL	-	42465	10	-	-	-

Table DWR 10: 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	2015	2	<5	114.32	2
Colour	20 mg/l Pt/Co scale	1782	0	<0.4	4.883	0
Hydrogen ion (pH)	6.5 - 10 pH value	1828	1	7.18	8.88	1
Iron	200 µg Fe/l	2609	22	<7	179.2	13
Manganese	50 µg Mn/l	2078	7	<1.5	30.79	3
Organoleptic Odour	Dilution No. 3 at 25°C	2180	2	0	1	2
Organoleptic Taste	Dilution No. 3 at 25°C	1934	3	0	0	3
Sodium	200 mg Na/l	649	0	3.2	34	0
Tetrachloromethane	3 µg/l	375	0	<0.02	<0.04	0
Turbidity	4 NTU	1942	1	<0.05	0.549	1
TOTAL	-	17392	38	-	-	-

Table DWR 11: 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	1834	0	<0.016	0.228
Chloride	250 mg Cl/l	377	0	6.312	47.256
<i>Clostridium perfringens</i>	0 number/100 ml	1911	3	0	0
Coliform Bacteria	0 number/100 ml	7720	32	0	0
Colony Counts After 3 Days At 22°C	No abnormal change	2154	1	<1	163
Colony Counts After 48 Hours At 37°C	No abnormal change	2154	15	<1	56
Conductivity	2500 µS/cm	978	0	50.79	427.95
Hydrogen ion (pH)	9.5 pH Value	1828	3	9.52	9.57
Radioactivity - Gross Alpha	0.1 Bq/l	650	0	<0.008	0.073
Radioactivity - Gross Beta	1 Bq/l	648	0	0.011	0.165
Radioactivity - Tritium	100 Bq/l	375	0	<1.5	<3.952
Residual Disinfectant - Free	No abnormal change	7666	0	<0.02	0.82
Residual Disinfectant - Total	No abnormal change	7750	0	0.07	1
Sulphate	250 mg SO ₄ /l	377	0	<2.1	68.938
Total Organic Carbon (TOC)	No abnormal change	377	0	0.66	3.42
TOTAL	-	36799	54	-	-

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