

Data summary tables for Dee Valley Water (DVW)

These tables contain a summary of results of monitoring undertaken by the water company in 2016 and submitted to the Drinking Water Inspectorate. The tables are published by the Inspectorate as part of the Chief Inspector's Report entitled *Drinking water 2016*.

The tables and full content of the Drinking Water Inspectorate's annual report are available on the Inspectorate's website at <http://www.dwi.defra.gov.uk>

Notes relating to the interpretation of the tables:

Columns on the following tables that are headed '1 percentile representing a minimum' and '99 percentile representing a maximum' contain figures for the 1 percentile and 99 percentile sample results respectively 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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Site Summary Data for Dee Valley Water Plc

Report Date Range: For the whole year 2016

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

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of works with failures
Nitrite (Works)	A013B	0.1 mg NO ₂ /l	48	0	0	< 0.002	0
Totals:			48	0			

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

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of works with failures
Coliform Bacteria	C001	0 number/100 ml	1,201	0	0	0	0
E coli	C002	0 number/100 ml	1,201	0	0	0	0
Totals:			2,402	0			

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

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	1,201	-n/a	0	3
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	1,201	-n/a	0	2
Residual Disinfectant - Free	C009	No abnormal change	1,201	-n/a	0.12	0.78
Residual Disinfectant - Total	C010	No abnormal change	1,200	-n/a	0.16	0.88
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(1,200)	-n/a	0	0.17
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	1,202	3	< 0.07	0.47
Totals:			6,005	6		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.

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

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of reservoirs failing standard
Coliform Bacteria	C001	0 number/100 ml	1,462	2	0	0	0
E coli	C002	0 number/100 ml	1,462	0	0	0	0
Totals:			2,924	2			

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

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	1,455	-n/a	0	35
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	1,455	-n/a	0	2
Residual Disinfectant - Free	C009	No abnormal change	1,460	-n/a	< 0.04	0.6539
Residual Disinfectant - Total	C010	No abnormal change	1,460	-n/a	0.04	0.7339
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(1,460)	-n/a	0	0.194
Totals:			5,830	13		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.

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

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of supply points with failures
1,2 Dichloroethane	F001	3 µg/l	55	0	< 0.138	< 0.14	0
Benzene	F002	1 µg/l	54	0	< 0.05	< 0.05	0
Boron	D005A	1 mg B/l	53	0	< 0.002	0.023	0
Bromate	F003	10 µg BrO3/l	52	0	< 0.1	2.5	0
Cyanide	B003	50 µg CN/l	52	0	< 0.6	1.5	0
Fluoride	A027	1.5 mg F/l	52	0	< 0.01	0.12	0
Mercury	B005	1 µg Hg/l	52	0	< 0.01	0.064	0
Pesticides - Total Substances	B010	0.5 µg/l	43	0	0	0.039	0
Pesticides 2,4,-Db	P082	0.1 µg/l	51	0	< 0.005	< 0.01	0
Pesticides 2,4-D	P020	0.1 µg/l	51	0	< 0.01	< 0.01	0
Pesticides Aldrin	P002	0.03 µg/l	54	0	0	< 0.003	0
Pesticides Asulam	P133	0.1 µg/l	51	0	< 0.009	< 0.01	0
Pesticides Bromoxynil	P008	0.1 µg/l	50	0	< 0.01	< 0.011	0
Pesticides Clopyralid	P018	0.1 µg/l	61	0	< 0.01	< 0.05	0
Pesticides Dieldrin	P028	0.03 µg/l	54	0	0	< 0.003	0
Pesticides Fluroxypyr	P040	0.1 µg/l	52	0	< 0.01	< 0.01	0
Pesticides Glyphosate	P042	0.1 µg/l	52	0	< 0.009	0.052	0
Pesticides Heptachlor	P043	0.03 µg/l	54	0	< 0.001	< 0.01	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	54	0	0	< 0.01	0
Pesticides MCPA	P054	0.1 µg/l	52	0	< 0.01	0.02	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	52	0	< 0.01	< 0.01	0
Pesticides Metaldehyde	P226	0.1 µg/l	58	0	< 0.01	0.02	0
Pesticides Trichlopyr	P131	0.1 µg/l	51	0	< 0.01	< 0.01	0
Radon	F031	100 Bq/l	19	0	< 1.63	29.9	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	55	0	0	0	0
Totals:			1,284	0			

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

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of supply points with failures
Tetrachloromethane	D008	3 µg/l	57	0	< 0.03	0.04	0
Totals:			57	0			

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

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Chloride (Indicator)	D002A	250 mg Cl/l	52	0	7.8	67.8
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	304	0	0	0
Conductivity (Indicator)	D001	2500 µS/cm	304	0	87.05	650.95
Sulphate (Indicator)	A007	250 mg SO ₄ /l	52	0	12	83
Total organic carbon (indicator)	A017	No abnormal change	52	-n/a	< 0.3	2.1
Tritium (Indicator)	F006	100 Bq/l	12	0	< 5	< 10
Totals:			776	0		

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

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones failing standard
Antimony	B008A	5 µg Sb/l	120	0	< 0.1	0.279	0
Arsenic	B001A	10 µg As/l	120	0	0.1	7.737	0
Benzo (a) Pyrene	D007	0.01 µg/l	126	0	0	< 0.001	0
Bromate	F003	10 µg BrO3/l	59	0	< 0.1	0.3	0
Cadmium	B002	5 µg Cd/l	120	0	< 0.02	0.15	0
Chromium	B004	50 µg Cr/l	120	0	0	1.179	0
Copper	A024A	2 mg Cu/l	123	0	0	0.14344	0
E coli	C002	0 number/100 ml	753	0	0	0	0
Enterococci	C003	0 number/100 ml	123	0	0	0	0
Lead (>10 µg/l)	B007B	10 µg Pb/l	123	0	< 0.1	6.864	0
Nickel	B006A	20 µg Ni/l	120	0	0.221	10.028	0
Nitrate	A012	50 mg NO3/l	120	0	< 0.86	10.056	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	120	0	0.01	0.2	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	120	0	0	0.002	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	130	0	0	0.001	0
Selenium	B009	10 µg Se/l	120	0	< 0.1	1.437	0
Total Trihalomethanes	D011	100 µg/l	137	0	0.2698	46.812	0
Totals:			2,654	0			

Table DVW 10: Quality of water at consumer's tap (zones) - National Standards

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests Failed	1 percentile (representing a minimum)	99 percentile (representing a maximum)	No. of zones failing standard
Aluminium	A021	200 µg Al/l	330	0	< 2.5	50.7	0
Colour	A001	20 mg/l Pt/Co scale	330	0	< 0.4	2.169	0
Iron	A022	200 µg Fe/l	330	0	< 3	134.6	0
Manganese	A023	50 µg Mn/l	330	0	0	9.38	0
Organoleptic Odour	A003	0 Dilution number	330	1	0	0	1
Organoleptic Taste	A004	0 Dilution number	330	0	0	0	0
Sodium	A009	200 mg Na/l	120	0	5.2868	34.995	0
Tetrachloromethane	D008	3 µg/l	7	0	< 0.03	< 0.03	0
Turbidity	A002	4 nephelometric turbidity units	331	0	< 0.07	0.4368	0
Totals:			2,438	1			

Table DVW 11: Quality of water at consumer's tap (zones) - Additional Monitoring Requirements

Parameter Name	Parameter Code	Prescribed Concentration or Value	Total Number of Tests	Tests exceeding specification	1 percentile (representing a minimum)	99 percentile (representing a maximum)
Ammonium (Indicator)	A014	0.5 mg NH4/l	329	0	< 0.006	0.0107
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	753	4	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	329	-n/a	0	62
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	329	-n/a	0	41
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	329	0	6.992	8.398
Residual Disinfectant - Free	C009	No abnormal change	752	-n/a	< 0.04	0.6594
Residual Disinfectant - Total	C010	No abnormal change	752	-n/a	0.08	0.78
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(752)	-n/a	0	0.235
Totals:			3,573	15		

*Residual disinfectant combined is presented for information. It is not a parameter required by the regulations. It is derived from the parameters 'Residual Disinfectant - Total' minus 'Residual Disinfectant - Free'.