

## **Data summary tables for Dee Valley Water (DVW)**

These tables contain a summary of results of monitoring undertaken by the water company in 2018 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 2018*.

The tables and full content of the Drinking Water Inspectorate's annual report are available on the Inspectorate's website at <http://www.dwi.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 period January to June 2018

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 (Total)	A013B	0.1 mg NO <sub>2</sub> /l	23	0	< 0.004	< 0.007	0
<b>Totals:</b>			<b>23</b>	<b>0</b>			

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
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	531	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	531	0	0	0	0
<b>Totals:</b>			<b>1,062</b>	<b>0</b>			

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 (Colony Counts)	C007	No abnormal change	531	-n/a	0	4
Colony Counts After 48 Hours At 37°C (Colony Counts)	C013	No abnormal change	531	-n/a	0	13
Residual Disinfectant - Free	C009	No abnormal change	531	-n/a	0.12	0.7468
Turbidity - Indicator	A002A	1 nephelometric turbidity units	531	0	< 0.06	0.2168
<b>Totals:</b>			<b>2,124</b>	<b>0</b>		

**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
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	700	0	0	0	0
Total Coliforms (Confirmed)	C001	0 number/100 ml	700	0	0	0	0
<b>Totals:</b>			<b>1,400</b>	<b>0</b>			

**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 22øc (Colony Counts)	C007	No abnormal change	700	-n/a	0	56
Colony Counts After 48 Hours At 37øc (Colony Counts)	C013	No abnormal change	700	-n/a	0	2
Residual Disinfectant - Free	C009	No abnormal change	700	-n/a	0.03	0.58
<b>Totals:</b>			<b>2,100</b>	<b>0</b>		

**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 (Total)	F001	3 µg/l	23	0	< 0.09	< 0.09	0
Benzene (Total)	F002	1 µg/l	23	0	< 0.04	< 0.04	0
Boron	D005A	1 mg B/l	23	0	< 0.012	0.022	0
Cyanide (Total)	B003	50 µg CN/l	22	0	< 2	< 2	0
Fluoride (Total)	A027	1.5 mg F/l	22	0	< 0.04	0.13	0
Mercury (Total)	B005	1 µg Hg/l	21	0	< 0.022	< 0.022	0
Pesticides (Total by Calculation)	B010	0.5 µg/l	23	0	0	0.028	0
Pesticides 2 4-D	P020	0.1 µg/l	21	0	< 0.003	0.004	0
Pesticides 2 4-DB	P082	0.1 µg/l	21	0	< 0.005	< 0.005	0
Pesticides Aldrin	P002	0.03 µg/l	22	0	< 0.001	< 0.001	0
Pesticides Asulam	P133	0.1 µg/l	22	0	< 0.008	< 0.008	0
Pesticides Bromoxynil	P008	0.1 µg/l	21	0	< 0.004	< 0.004	0
Pesticides Clopyralid	P018	0.1 µg/l	21	0	< 0.003	0.008	0
Pesticides Dieldrin	P028	0.03 µg/l	22	0	< 0.003	< 0.003	0
Pesticides Fluroxypyr	P040	0.1 µg/l	21	0	< 0.002	0.008	0
Pesticides Glyphosate	P042	0.1 µg/l	23	0	< 0.011	< 0.011	0
Pesticides Heptachlor	P043	0.03 µg/l	22	0	< 0.001	< 0.001	0
Pesticides Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	P044	0.03 µg/l	22	0	0	0	0
Pesticides MCPA 4-chloro-o-tolyloxyacetic acid	P054	0.1 µg/l	21	0	< 0.002	0.011	0
Pesticides MCPP (Mecoprop)	P053	0.1 µg/l	21	0	< 0.002	0.005	0
Pesticides Metaldehyde	P226	0.1 µg/l	21	0	< 0.002	0.01	0
Pesticides Triclopyr	P131	0.1 µg/l	21	0	< 0.004	0.005	0
Radon	F031	100 Bq/l	8	0	< 10	27.4	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	D009B	10 µg/l	23	0	0	0	0
<b>Totals:</b>			<b>510</b>	<b>0</b>			

**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 (Total)	D008	3 µg/l	23	0	< 0.06	< 0.06	0
<b>Totals:</b>			<b>23</b>	<b>0</b>			

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	D002A	250 mg Cl/l	23	0	9.22	68.6
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	C004A	0 number/100 ml	158	0	0	0
Conductivity (Electrical Conductivity)	D001	2500 µS/cm	168	0	90.28	656.31
Gross Alpha	F004	0.1 Bq/l	20	0	< 0.014	0.091
Gross Beta	F005	1 Bq/l	20	0	< 0.012	0.088
Sulphate	A007	250 mg SO <sub>4</sub> /l	23	0	12.4	59.79
Total Organic Carbon	A017	No abnormal change	23	-n/a	< 0.4	1.9
Tritium	F006	100 Bq/l	3	0	< 5	< 5
<b>Totals:</b>			<b>438</b>	<b>0</b>		

**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	54	0	< 0.04	0.16	0
Arsenic (Total)	B001A	10 µg As/l	54	0	0.1	5.87	0
Benzo[a]Pyrene (Total)	D007	0.01 µg/l	52	0	< 0.001	< 0.001	0
Bromate	F003	10 µg BrO3/l	54	1	< 0.2	27.24	1
Cadmium (Total)	B002	5 µg Cd/l	54	0	< 0.01	0.19	0
Chromium (Total)	B004	50 µg Cr/l	54	0	< 0.2	< 0.7	0
Copper (Total)	A024A	2 mg Cu/l	54	0	< 0.0009	0.0483	0
E coli (faecal coliforms Confirmed)	C002	0 number/100 ml	333	0	0	0	0
Enterococci (Confirmed)	C003	0 number/100 ml	54	0	0	0	0
Lead (10 - will apply 25.12.2013)	B007B	10 µg Pb/l	55	0	< 0.32	3.8	0
Nickel (Total)	B006A	20 µg Ni/l	54	0	< 0.4	2.1	0
Nitrate (Total)	A012	50 mg NO3/l	54	0	1.98	19.33	0
Nitrite - Consumer's Taps	A013A	0.5 mg NO2/l	54	0	< 0.004	< 0.007	0
Nitrite/Nitrate formula	A013C	1 mg NO2/l	54	0	0.04	0.39	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	B011F	0.1 µg/l	52	0	0	0.003	0
Selenium (Total)	B009	10 µg Se/l	54	0	< 0.04	0.27	0
Trihalomethanes (Total by Calculation)	D011	100 µg/l	54	0	1.07	59.33	0
<b>Totals:</b>			<b>1,194</b>	<b>1</b>			

**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 (Total)	A021	200 µg Al/l	137	0	< 5	76.1	0
Colour	A001	20 mg/l Pt/Co scale	136	0	< 0.19	2.6056	0
Iron (Total)	A022	200 µg Fe/l	137	0	< 10	103.4	0
Manganese (Total)	A023	50 µg Mn/l	137	1	< 0.2	58.982	1
Odour	A003	0 Dilution number	136	1	0	0.63	1
Sodium (Total)	A009	200 mg Na/l	54	0	6.2	34.3	0
Taste (Taste Quant)	A004	0 Dilution number	133	0	0	0	0
Turbidity	A002	4 nephelometric turbidity units	136	0	< 0.06	0.3715	0
<b>Totals:</b>			<b>1,006</b>	<b>2</b>			

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 (Total)	A014	0.5 mg NH <sub>4</sub> /l	136	0	< 0.012	< 0.02367
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	333	0	0	0
Colony Counts After 3 Days At 22øc (Colony Counts)	C007	No abnormal change	136	-n/a	0	31
Colony Counts After 48 Hours At 37øc (Colony Counts)	C013	No abnormal change	136	-n/a	0	35
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	A006	6.5 - 9.5 pH Value	137	0	6.777	8.201
Residual Disinfectant - Free	C009	No abnormal change	333	-n/a	0.08	0.6298
<b>Totals:</b>			<b>1,211</b>	<b>0</b>		