

## Data Summary Tables for Dee Valley Water (DVW)

These tables contain a summary of results of monitoring undertaken by the water company in 2012 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 2012*.

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.

Published 11 July 2013  
Drinking Water Inspectorate  
Area 7e  
9 Millbank  
c/o Nobel House  
17 Smith Square  
London  
SW1P 3JR

Enquiries : 0300 068 6400

## Site Summary Data for Dee Valley Water Plc

Report Date Range: For the whole year 2012

**Table DVW 1: Quality of water leaving 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 <sub>2</sub> /l	406	0	< 0.002	0.02	0
<b>Totals:</b>			<b>406</b>	<b>0</b>			

**Table DVW 2: Quality of water leaving 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	2	0	0	1
<i>Cryptosporidium</i>	C111	-(n/a)	5	-n/a			
<i>E.coli</i>	C002	0 number/100 ml	1,201	0	0	0	0
<b>Totals:</b>			<b>2,407</b>	<b>2</b>			

**Table DVW 3: Quality of water leaving 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	31
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	1,201	-n/a	0	3
Residual Disinfectant - Free	C009	No abnormal change	1,201	-n/a	0.02	0.65
Residual Disinfectant - Total	C010	No abnormal change	1,201	-n/a	0.1	0.7
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(1,201)	-(n/a)	0.02	0.6
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	1,201	8	< 0.09	0.8098
<b>Totals:</b>			<b>6,005</b>	<b>8</b>		

\*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	1,578	1	0	0	0
<i>E.coli</i>	C002	0 number/100 ml	1,578	0	0	0	0
<b>Totals:</b>			<b>3,156</b>	<b>1</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 22°C (Indicator)	C007	No abnormal change	1,578	-n/a	0	77
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	1,578	-n/a	0	3
Residual Disinfectant - Free	C009	No abnormal change	1,580	-n/a	< 0.02	0.6
Residual Disinfectant - Total	C010	No abnormal change	1,580	-n/a	< 0.02	0.6257
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(1,580)	-(n/a)	0.01	0.45
<b>Totals:</b>			<b>6,316</b>	<b>0</b>		

\*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	48	0	< 0.1	< 0.14	0
Benzene	F002	1 µg/l	48	0	< 0.04	< 0.05	0
Boron	D005A	1 mg B/l	48	0	< 0.003	0.022	0
Bromate	F003	10 µg BrO3/l	48	0	< 0.3	< 0.5	0
Cyanide	B003	50 µg CN/l	48	0	< 0.1	2.6	0
Fluoride	A027	1.5 mg F/l	48	0	< 0.01	0.12	0
Mercury	B005	1 µg Hg/l	48	0	< 0.01	0.028	0
Pesticides - Total Substances	B010	0.5 µg/l	48	0	0	0.068	0
Pesticides 2,4,-Db	P082	0.1 µg/l	48	0	< 0.01	< 0.01	0
Pesticides 2,4-D	P020	0.1 µg/l	48	0	< 0.008	< 0.01	0
Pesticides Aldrin	P002	0.03 µg/l	48	0	0	< 0.002	0
Pesticides Atrazine	P004	0.1 µg/l	49	0	< 0.004	< 0.01	0
Pesticides Bromoxynil	P008	0.1 µg/l	48	0	< 0.01	< 0.011	0
Pesticides Carbendazim	P150	0.1 µg/l	49	0	< 0.003	< 0.01	0
Pesticides Chlortoluron	P014	0.1 µg/l	49	0	< 0.003	< 0.01	0
Pesticides Clopyralid	P018	0.1 µg/l	48	0	< 0.015	< 0.02	0
Pesticides Diazinon	P024	0.1 µg/l	49	0	< 0.004	< 0.01	0
Pesticides Dieldrin	P028	0.03 µg/l	48	0	0	< 0.003	0
Pesticides Diuron	P032	0.1 µg/l	48	0	< 0.003	< 0.01	0
Pesticides Fluroxypyr	P040	0.1 µg/l	48	0	< 0.01	< 0.01	0
Pesticides Heptachlor	P043	0.03 µg/l	48	0	0	< 0.002	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	48	0	0	< 0.002	0
Pesticides Isoproturon	P048	0.1 µg/l	50	0	< 0.003	< 0.01	0
Pesticides MCPA	P054	0.1 µg/l	48	0	< 0.008	0.03	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	49	0	< 0.007	< 0.01	0
Pesticides Mesosulfuron-methyl	P234	0.1 µg/l	50	0	< 0.008	< 0.01	0
Pesticides Metazachlor	P203	0.1 µg/l	50	0	< 0.003	< 0.01	0
Pesticides Propyzamide	P071	0.1 µg/l	51	0	< 0.006	< 0.01	0
Pesticides Simazine	P073	0.1 µg/l	48	0	< 0.016	< 0.02	0
Pesticides Trichlopyr	P131	0.1 µg/l	48	0	< 0.009	< 0.01	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	49	0	0	0	0
<b>Totals:</b>			<b>1,503</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	D008	3 µg/l	49	0	< 0.04	0.09	0
<b>Totals:</b>			<b>49</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 (Indicator)	D002A	250 mg Cl/l	48	0	7.9	63.4
<i>Clostridium perfringens</i> (indicator)	C004A	0 number/100 ml	304	0	0	0
Conductivity (Indicator)	D001	2500 µS/cm	304	0	94.05	631.9
Gross Alpha Activity	F004	0.1 Bq/l	7	0	< 0.02	< 0.02
Gross Beta Activity	F005	1 Bq/l	7	0	< 0.02	0.06
Sulphate (Indicator)	A007	250 mg SO <sub>4</sub> /l	48	0	13	77
Total organic carbon (indicator)	A017	No abnormal change	48	-n/a	0.2	2.2
Tritium (Indicator)	F006	100 Bq/l	50	0	< 5	< 5
<b>Totals:</b>			<b>816</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
1,2 Dichloroethane	F001	3 µg/l	4	0	< 0.1	< 0.14	0
Antimony	B008A	5 µg Sb/l	132	0	< 0.1	0.267	0
Arsenic	B001A	10 µg As/l	132	0	< 0.1	6.867	0
Benzene	F002	1 µg/l	4	0	< 0.04	< 0.05	0
Benzo (a) Pyrene	D007	0.01 µg/l	132	0	0	< 0.002	0
Boron	D005A	1 mg B/l	4	0	0.004	0.007	0
Bromate	F003	10 µg BrO3/l	76	0	< 0.3	< 0.5	0
Cadmium	B002	5 µg Cd/l	132	0	< 0.02	0.2	0
Chromium	B004	50 µg Cr/l	132	0	< 0.1	2.868	0
Copper	A024A	2 mg Cu/l	132	1	0	3.1301	1
Cyanide	B003	50 µg CN/l	4	0	< 0.7	< 1.2	0
<i>E.coli</i>	C002	0 number/100 ml	767	0	0	0	0
Enterococci	C003	0 number/100 ml	133	0	0	0	0
Fluoride	A027	1.5 mg F/l	4	0	< 0.01	< 0.01	0
Lead	B007A	25 µg Pb/l	132	1	< 0.1	176.16	1
Mercury	B005	1 µg Hg/l	4	0	< 0.01	< 0.018	0
Nickel	B006A	20 µg Ni/l	132	0	0.6	14.193	0
Nitrate	A012	50 mg NO3/l	209	0	0.907	< 18.65	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	208	0	0.02	0.2991	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	209	0	0	0.3721	0
Pesticides - Total Substances	B010	0.5 µg/l	4	0	0	0.016	0
Pesticides 2,4,-Db	P082	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides 2,4-D	P020	0.1 µg/l	4	0	< 0.008	< 0.01	0
Pesticides Aldrin	P002	0.03 µg/l	4	0	< 0.001	< 0.002	0
Pesticides Atrazine	P004	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Bromoxynil	P008	0.1 µg/l	4	0	< 0.011	< 0.011	0
Pesticides Carbendazim	P150	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Chlortoluron	P014	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Clopyralid	P018	0.1 µg/l	4	0	< 0.015	< 0.015	0
Pesticides Diazinon	P024	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Dieldrin	P028	0.03 µg/l	4	0	< 0.003	< 0.003	0
Pesticides Diuron	P032	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Fluroxypyr	P040	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Heptachlor	P043	0.03 µg/l	4	0	< 0.001	< 0.002	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	4	0	< 0.001	< 0.002	0
Pesticides Isoproturon	P048	0.1 µg/l	4	0	< 0.01	< 0.01	0

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
Pesticides MCPA	P054	0.1 µg/l	4	0	< 0.008	< 0.01	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	4	0	< 0.007	< 0.01	0
Pesticides Mesosulfuron-methyl	P234	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Metazachlor	P203	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Propyzamide	P071	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Simazine	P073	0.1 µg/l	4	0	< 0.016	< 0.016	0
Pesticides Trichlopyr	P131	0.1 µg/l	4	0	< 0.009	< 0.01	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	132	0	0	0.00402	0
Selenium	B009	10 µg Se/l	132	0	< 0.3	0.767	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	4	0	0	0	0
Total Trihalomethanes	D011	100 µg/l	136	0	0.1739	71.344	0
<b>Totals:</b>			<b>3,178</b>	<b>2</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	A021	200 µg Al/l	324	0	< 2.625	84.225	0
Colour	A001	20 mg/l Pt/Co scale	324	0	< 0.4	3.6	0
Iron	A022	200 µg Fe/l	324	1	< 2	138.75	1
Manganese	A023	50 µg Mn/l	324	3	0	73.75	2
Organoleptic Odour	A003	0 Dilution number	325	1	0	0	1
Organoleptic Taste	A004	0 Dilution number	326	1	0	0	1
Sodium	A009	200 mg Na/l	133	0	< 2.3212	32.726	0
Tetrachloromethane	D008	3 µg/l	4	0	< 0.04	< 0.07	0
Turbidity	A002	4 nephelometric turbidity units	324	0	< 0.09	0.71	0
<b>Totals:</b>			<b>2,408</b>	<b>6</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 (Indicator)	A014	0.5 mg NH4/l	324	0	0	0.1165
Chloride (Indicator)	D002A	250 mg Cl/l	4	0	10.7	14
<i>Clostridium perfringens</i> (indicator)	C004A	0 number/100 ml	4	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	767	8	0	1
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	325	-n/a	0	199
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	325	-n/a	0	163
Conductivity (Indicator)	D001	2500 µS/cm	4	0	119	138
Gross Alpha Activity	F004	0.1 Bq/l	5	0	< 0.02	< 0.02
Gross Beta Activity	F005	1 Bq/l	5	0	< 0.02	0.021
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	324	2	6.8025	8.245
Residual Disinfectant - Free	C009	No abnormal change	774	-n/a	0.02	0.5
Residual Disinfectant - Total	C010	No abnormal change	774	-n/a	0.02	0.55
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(774)	-(n/a)	0.02	0.363
Sulphate (Indicator)	A007	250 mg SO4/l	4	0	24	39
Total organic carbon (indicator)	A017	No abnormal change	4	-n/a	1.9	2.4
Tritium (Indicator)	F006	100 Bq/l	4	0	< 5	< 5
<b>Totals:</b>			<b>3,647</b>	<b>10</b>		

\*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'.