

Data summary tables for Peel Water Networks Limited (PWN)

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 Peel Water Networks

Report Date Range: For the whole year 2016

Table PWN 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	< 0.1376	< 0.1376	0
Antimony	B008A	5 µg Sb/l	4	0	< 0.14	0.14	0
Arsenic	B001A	10 µg As/l	4	0	0.1	0.16	0
Benzene	F002	1 µg/l	5	0	< 0.0471	< 0.0471	0
Benzo (a) Pyrene	D007	0.01 µg/l	4	0	< 0.001	< 0.001	0
Boron	D005A	1 mg B/l	4	0	< 0.002	0.006	0
Bromate	F003	10 µg BrO3/l	4	0	< 0.091	< 0.234	0
Cadmium	B002	5 µg Cd/l	4	0	< 0.02	< 0.03	0
Chromium	B004	50 µg Cr/l	4	0	0.08	0.11	0
Copper	A024A	2 mg Cu/l	5	0	< 0.001	0.135	0
Cyanide	B003	50 µg CN/l	4	0	< 0.698	1.65	0
E coli	C002	0 number/100 ml	24	0	0	0	0
Enterococci	C003	0 number/100 ml	6	0	0	0	0
Fluoride	A027	1.5 mg F/l	4	0	0.01	< 0.0233	0
Lead (>10 µg/l)	B007B	10 µg Pb/l	5	0	< 0.29	< 0.29	0
Mercury	B005	1 µg Hg/l	4	0	< 0.01	< 0.018	0
Nickel	B006A	20 µg Ni/l	5	0	< 0.31	2.06	0
Nitrate	A012	50 mg NO3/l	4	0	0.2	0.59	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	4	0	0.005	0.01	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	4	0	< 0.0005	0.0013	0
Pesticides - Total Substances	B010	0.5 µg/l	5	0	0	0	0
Pesticides 2,4-D	P020	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Aldrin	P002	0.03 µg/l	4	0	< 0.002	< 0.003	0
Pesticides Atrazine	P004	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Clopyralid	P018	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 Glyphosate	P042	0.1 µg/l	4	0	< 0.009	< 0.009	0
Pesticides MCPA	P054	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides MCPB	P055	0.1 µg/l	4	0	< 0.01	< 0.012148	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	4	0	< 0.01	< 0.01	0
Pesticides Trichlopyr	P131	0.1 µg/l	4	0	< 0.01	< 0.01	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	4	0	0	0	0
Selenium	B009	10 µg Se/l	4	0	< 0.05	0.08	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	4	0	< 0.0593	< 0.12	0
Total Trihalomethanes	D011	100 µg/l	4	0	19.2	28	0
Totals:			167	0			

Table PWN 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	4	0	9.3	27.3	0
Colour	A001	20 mg/l Pt/Co scale	4	0	< 0.39	< 1.25	0
Iron	A022	200 µg Fe/l	4	0	3.67	8.46	0
Manganese	A023	50 µg Mn/l	4	0	0.67	2.09	0
Organoleptic Odour	A003	0 Dilution number	4	0	0	0	0
Organoleptic Taste	A004	0 Dilution number	4	0	0	0	0
Sodium	A009	200 mg Na/l	4	0	4.34	6.75	0
Tetrachloromethane	D008	3 µg/l	4	0	< 0.0241	< 0.025	0
Turbidity	A002	4 nephelometric turbidity units	4	0	< 0.066	0.4	0
Totals:			36	0			

Table PWN 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	4	0	< 0.006	< 0.006
Chloride (Indicator)	D002A	250 mg Cl/l	4	0	5.4	7.67
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	6	0	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	24	0	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	6	-n/a	0	8
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	6	-n/a	0	1
Conductivity (Indicator)	D001	2500 µS/cm	4	0	53	91
Gross Alpha Activity	F004	0.1 Bq/l	4	0	< 0.02	< 0.02
Gross Beta Activity	F005	1 Bq/l	4	0	< 0.02	< 0.02
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	4	0	7.27	7.51
Residual Disinfectant - Free	C009	No abnormal change	24	-n/a	0.4	0.8
Residual Disinfectant - Total	C010	No abnormal change	24	-n/a	0.45	0.9
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(24)	-n/a	0.05	0.1
Sulphate (Indicator)	A007	250 mg SO4/l	4	0	5.29	16.1
Total Indicative Dose (Gross Alpha and Beta)	F007	0.1 mSv/year	4	0	0	0
Total organic carbon (indicator)	A017	No abnormal change	4	-n/a	0.76	0.93
Tritium (Indicator)	F006	100 Bq/l	4	0	< 5	< 10
Totals:			130	0		

*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'.