

## **Data summary tables for Northumbrian Water (NNE)**

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 Northumbrian Water Ltd

Report Date Range: For the whole year 2016

**Table NNE 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 <sub>2</sub> /l	370	0	< 0.0011	0.021	0
<b>Totals:</b>			<b>370</b>	<b>0</b>			

**Table NNE 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	5,941	1	0	0	1
E coli	C002	0 number/100 ml	5,941	0	0	0	0
<b>Totals:</b>			<b>11,882</b>	<b>1</b>			

**Table NNE 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	5,941	-n/a	0	3
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	5,939	-n/a	0	3
Residual Disinfectant - Free	C009	No abnormal change	5,941	-n/a	0.25	1.22
Residual Disinfectant - Total	C010	No abnormal change	5,941	-n/a	0.35	1.37
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(5,941)	-n/a	0	0.66
Turbidity (Indicator)	A002A	1 nephelometric turbidity units	5,940	9	< 0.08	0.31
<b>Totals:</b>			<b>29,702</b>	<b>9</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 NNE 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	10,560	1	0	0	0
E coli	C002	0 number/100 ml	10,560	0	0	0	0
<b>Totals:</b>			<b>21,120</b>	<b>1</b>			

**Table NNE 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	10,560	-n/a	0	48
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	10,537	-n/a	0	3
Residual Disinfectant - Free	C009	No abnormal change	10,560	-n/a	< 0.03	0.99
Residual Disinfectant - Total	C010	No abnormal change	10,560	-n/a	0.06	1.13
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(10,560)	-n/a	0	0.73
<b>Totals:</b>			<b>42,217</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 NNE 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	274	0	< 0.024	< 0.025	0
Benzene	F002	1 µg/l	274	0	< 0.013	0.034	0
Cyanide	B003	50 µg CN/l	272	0	< 0.3	5.608	0
Mercury	B005	1 µg Hg/l	273	0	< 0.013	< 0.055	0
Pesticides - Total Substances	B010	0.5 µg/l	274	0	0	0.13325	0
Pesticides 2,4-D	P020	0.1 µg/l	272	0	< 0.0011	0.01362	0
Pesticides Aldrin	P002	0.03 µg/l	274	0	< 0.0022	< 0.0022	0
Pesticides AMPA	P273	0.1 µg/l	270	0	< 0.0031	< 0.016	0
Pesticides Asulam	P133	0.1 µg/l	273	0	< 0.004	0.02716	0
Pesticides Benazolin	P138	0.1 µg/l	272	0	< 0.0038	0.009481	0
Pesticides Bentazone	P006	0.1 µg/l	272	0	< 0.00073	0.011	0
Pesticides Carbetamide	P010	0.1 µg/l	274	0	< 0.0018	< 0.0018	0
Pesticides Chlormequat	P163	0.1 µg/l	274	0	< 0.0059	< 0.0059	0
Pesticides Chlortoluron	P014	0.1 µg/l	274	0	< 0.0019	< 0.0019	0
Pesticides Clopyralid	P018	0.1 µg/l	268	0	< 0.0031	0.08486	0
Pesticides Cypermethrin	P094	0.1 µg/l	272	0	< 0.001	< 0.0048	0
Pesticides Diazinon	P024	0.1 µg/l	274	0	< 0.0029	< 0.0043	0
Pesticides Dieldrin	P028	0.03 µg/l	274	0	< 0.0024	< 0.0025	0
Pesticides Diflufenican	P157	0.1 µg/l	274	0	< 0.0026	0.0039	0
Pesticides Diuron	P032	0.1 µg/l	274	0	< 0.0033	0.009	0
Pesticides Ethofumersate	P221	0.1 µg/l	272	0	< 0.013	< 0.013	0
Pesticides Fenpropimorph	P037	0.1 µg/l	273	0	< 0.0027	< 0.00492	0
Pesticides Fluroxypyr	P040	0.1 µg/l	272	0	< 0.0052	0.017	0
Pesticides Glyphosate	P042	0.1 µg/l	271	0	< 0.0034	< 0.017	0
Pesticides Heptachlor	P043	0.03 µg/l	274	0	< 0.0048	< 0.0048	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	274	0	0	0	0
Pesticides Isoproturon	P048	0.1 µg/l	274	0	< 0.0017	< 0.0017	0
Pesticides MCPA	P054	0.1 µg/l	272	0	< 0.00055	0.02327	0
Pesticides MCPB	P055	0.1 µg/l	272	0	< 0.0041	< 0.0042	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	272	0	< 0.0013	0.01154	0
Pesticides Metaldehyde	P226	0.1 µg/l	274	0	< 0.0061	0.04125	0
Pesticides Metamitron	P194	0.1 µg/l	274	0	< 0.0032	< 0.0032	0
Pesticides Metazachlor	P203	0.1 µg/l	273	0	< 0.003	0.01252	0
Pesticides Pendimethalin	P118	0.1 µg/l	273	0	< 0.0025	0.006126	0
Pesticides Picloram	P122	0.1 µg/l	272	0	< 0.0035	< 0.011	0
Pesticides Propyzamide	P071	0.1 µg/l	272	0	< 0.0022	< 0.010051	0
Pesticides Quinmerac	P244	0.1 µg/l	274	0	< 0.0016	0.02525	0
Pesticides Trichlopyr	P131	0.1 µg/l	272	0	< 0.0035	0.013	0
Radon	F031	100 Bq/l	81	0	7.4	31.3	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	274	0	0	0.56	0
<b>Totals:</b>			<b>10,723</b>	<b>0</b>			

**Table NNE 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	274	0	< 0.025	< 0.03	0
<b>Totals:</b>			<b>274</b>	<b>0</b>			

**Table NNE 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)
Gross Alpha Activity	F004	0.1 Bq/l	20	0	0.026	0.1
Gross Beta Activity	F005	1 Bq/l	21	0	0.084	0.168
Total organic carbon (indicator)	A017	No abnormal change	274	-n/a	0.225	2.825
Tritium (Indicator)	F006	100 Bq/l	21	0	< 5	< 10
<b>Totals:</b>			<b>336</b>	<b>0</b>		

**Table NNE 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	458	0	< 0.03418	0.3623	0
Arsenic	B001A	10 µg As/l	458	0	0.12	0.6782	0
Benzo (a) Pyrene	D007	0.01 µg/l	458	0	< 0.00056	< 0.0006748	0
Boron	D005A	1 mg B/l	459	0	< 0.0034	0.124	0
Bromate	F003	10 µg BrO3/l	454	0	< 0.3	0.9745	0
Cadmium	B002	5 µg Cd/l	459	0	< 0.0024	0.0588	0
Chromium	B004	50 µg Cr/l	459	0	< 0.025	0.286	0
Copper	A024A	2 mg Cu/l	459	0	< 0.0011	0.244	0
E coli	C002	0 number/100 ml	6,405	0	0	0	0
Enterococci	C003	0 number/100 ml	458	2	0	0	2
Fluoride	A027	1.5 mg F/l	459	0	0.0268	1.1	0
Lead (>10 µg/l)	B007B	10 µg Pb/l	459	5	< 0.014	10.92	5
Nickel	B006A	20 µg Ni/l	459	5	< 0.034	25.6	5
Nitrate	A012	50 mg NO3/l	459	0	0.556	29	0
Nitrate/Nitrite Formula	A013C	1 mg NO2/l	459	0	< 0.0116	< 0.58	0
Nitrite (Consumers tap)	A013A	0.5 mg NO2/l	459	0	< 0.0011	0.0112	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	458	0	0	0.0045277	0
Selenium	B009	10 µg Se/l	458	0	< 0.078	1.241	0
Total Trihalomethanes	D011	100 µg/l	458	0	3.9683	72.597	0
<b>Totals:</b>			<b>14,655</b>	<b>12</b>			

**Table NNE 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	2,265	1	< 6.6	77	1
Colour	A001	20 mg/l Pt/Co scale	2,266	0	0.5567	2.2	0
Iron	A022	200 µg Fe/l	2,265	14	< 1.2	150	10
Manganese	A023	50 µg Mn/l	2,233	0	< 0.18	7.732	0
Organoleptic Odour	A003	0 Dilution number	1,144	2	0	0	1
Organoleptic Taste	A004	0 Dilution number	1,144	0	0	0	0
Sodium	A009	200 mg Na/l	459	0	2.96	69.4	0
Turbidity	A002	4 nephelometric turbidity units	2,266	0	< 0.08	0.4733	0
<b>Totals:</b>			<b>14,042</b>	<b>17</b>			

**Table NNE 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 NH <sub>4</sub> /l	2,266	0	< 0.007	0.037
Chloride (Indicator)	D002A	250 mg Cl/l	458	0	6.7	73
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	2,228	2	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	6,405	7	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	2,266	-n/a	0	82
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	2,264	-n/a	0	39
Conductivity (Indicator)	D001	2500 µS/cm	2,266	0	120	873.3
Hydrogen ion (pH)	A006	6.5 - 9.5 pH Value	2,266	0	7.1	8.3
Residual Disinfectant - Free	C009	No abnormal change	6,405	-n/a	< 0.03	0.9794
Residual Disinfectant - Total	C010	No abnormal change	6,405	-n/a	0.09	1.12
Combined Chlorine/Residual Disinfectant Combined*	-(n/a)	-(n/a)	(6,405)	-n/a	0	0.38
Sulphate (Indicator)	A007	250 mg SO <sub>4</sub> /l	458	0	4.577	190
<b>Totals:</b>			<b>33,687</b>	<b>9</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'.