

Data Summary Tables for Northumbrian Water (NNE)

These tables contain a summary of results of monitoring undertaken by the water company in 2008 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 2008'.

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 July 2nd 2009
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Site Summary Data for Northumbrian Water Ltd

Report Date Range: For the whole year 2008

Table NWL 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 ₂ /l	323	0	< 0.002	0.008	0
Totals:			323	0			

Table NWL 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	6,075	5	0	0	5
Cryptosporidium	C111	(see note*)	1,482	0			0
E Coli	C002	0 number/100 ml	6,075	1	0	0	1
Totals:			13,632	6			

Table NWL 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	6,075	N/A	0	3
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	6,075	N/A	0	2
Residual Disinfectant - Free	C009	No abnormal change	6,075	N/A	0.32	1.18
Residual Disinfectant - Total	C010	No abnormal change	6,075	N/A	0.37	1.27
Turbidity (Indicator)	A002A	1 nephelometric turbidity unit	6,074	2	< 0.08	0.32
Totals:			30,374	2		

* Note : The Standard for *Cryptosporidium* ceased to exist when regulations changed from 22nd December 2007 but the regulatory monitoring related to *Cryptosporidium* risk assessments continued until 1st October.

Table NWL 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	11,240	12	0	0	0
E Coli	C002	0 number/100 ml	11,240	5	0	0	4
Totals:			22,480	17			

Table NWL 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	11,240	N/A	0	170
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	11,240	N/A	0	7.59
Residual Disinfectant - Free	C009	No abnormal change	11,240	N/A	0.02	0.89
Residual Disinfectant - Total	C010	No abnormal change	11,240	N/A	0.05	1
Totals:			44,960	0		

Table NWL 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	279	0	< 0.049	< 0.049	0
Benzene	F002	1 µg/l	279	0	< 0.03	0.034	0
Cyanide	B003	50 µg CN/l	279	0	< 0.66	5.78	0
Mercury	B005	1 µg Hg/l	279	0	< 0.037	0.086	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	279	0	0	0.346	0
Totals:			1,395	0			

Table NWL 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	279	0	< 0.074	< 0.074	0
Totals:			279	0			

Table NWL 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	279	3	0.015	0.114
Gross Beta Activity	F005	1 Bq/l	279	0	0.022	0.208
Total organic carbon (indicator)	A017	No abnormal change	279	N/A	< 0.384	3.52
Tritium (Indicator)	F006	100 Bq/l	8	0	< 4	< 4
Totals:			845	3		

Table NWL 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 with failures
1,2 Dichloroethane	F001	3 µg/l	1	0	< 0.049	< 0.049	0
Antimony	B008A	5 µg Sb/l	549	0	< 0.28	0.295	0
Arsenic	B001A	10 µg As/l	549	0	< 0.17	0.67	0
Benzene	F002	1 µg/l	1	0	< 0.03	< 0.03	0
Benzo (a) Pyrene	D007	0.01 µg/l	549	0	< 0.001	0.001	0
Boron	D005A	1 mg B/l	549	0	< 0.026	0.103	0
Bromate	F003	10 µg BrO ₃ /l	549	0	< 0.97	1.4	0
Cadmium	B002	5 µg Cd/l	549	0	< 0.008	0.054	0
Chromium	B004	50 µg Cr/l	549	0	< 0.2	0.62	0
Copper	A024A	2 mg Cu/l	549	0	< 0.001	0.23	0
Cyanide	B003	50 µg CN/l	1	0	2.7	2.7	0
E Coli	C002	0 number/100 ml	6,476	2	0	0	2
Enterococci	C003	0 number/100 ml	549	1	0	0	1
Fluoride	A027	1.5 mg F/l	549	0	< 0.012	1.1	0
Lead	B007A	25 µg Pb/l	549	1	< 0.025	15.5	1
Mercury	B005	1 µg Hg/l	1	0	< 0.037	< 0.037	0
Nickel	B006A	20 µg Ni/l	549	0	0.305	6	0
Nitrate	A012	50 mg NO ₃ /l	549	0	< 0.69	23.5	0
Nitrate/Nitrite Formula	A013C	1 mg NO ₂ /l	549	0	< 0.014	0.465	0
Nitrite (Consumers tap)	A013A	0.5 mg NO ₂ /l	549	0	< 0.002	0.004	0
Pesticides - Total Substances	B010	0.5 µg/l	549	0	0	0.04	0
Pesticides 2,4-D	P020	0.1 µg/l	549	0	< 0.005	< 0.005	0
Pesticides Aldrin	P002	0.03 µg/l	549	0	< 0.004	< 0.004	0
Pesticides Atrazine	P004	0.1 µg/l	549	0	< 0.001	0.004	0
Pesticides Benazolin	P138	0.1 µg/l	549	0	< 0.004	< 0.004	0
Pesticides Chlorothalonil	P015	0.1 µg/l	549	0	< 0.007	< 0.007	0
Pesticides Chlortoluron	P014	0.1 µg/l	550	0	< 0.006	0.01	0
Pesticides Clopyralid	P018	0.1 µg/l	549	0	< 0.007	< 0.007	0
Pesticides Cypermethrin	P094	0.1 µg/l	498	0	< 0.004	0.008	0
Pesticides Diazinon	P024	0.1 µg/l	549	0	< 0.002	< 0.002	0
Pesticides Dieldrin	P028	0.03 µg/l	549	0	< 0.006	< 0.006	0
Pesticides Diuron	P032	0.1 µg/l	550	0	< 0.007	0.008	0
Pesticides Fenpropimorph	P037	0.1 µg/l	549	0	< 0.003	< 0.003	0
Pesticides Fluroxypyr	P040	0.1 µg/l	549	0	< 0.005	< 0.005	0

Pesticides Heptachlor	P043	0.03 µg/l	549	0	< 0.002	0.004	0
Pesticides Heptachlor epoxide	P044	0.03 µg/l	549	0	0	0	0
Pesticides Isoproturon	P048	0.1 µg/l	550	0	< 0.013	< 0.013	0
Pesticides Malathion	P052	0.1 µg/l	549	0	< 0.005	< 0.005	0
Pesticides MCPA	P054	0.1 µg/l	549	0	< 0.004	0.024	0
Pesticides MCPB	P055	0.1 µg/l	549	0	< 0.004	< 0.004	0
Pesticides MCPP(Mecoprop)	P053	0.1 µg/l	549	0	< 0.006	0.007	0
Pesticides Pendimethalin	P118	0.1 µg/l	549	0	< 0.001	0.004	0
Pesticides Propetamphos	P069	0.1 µg/l	549	0	< 0.002	0.002	0
Pesticides Propyzamide	P071	0.1 µg/l	549	0	< 0.004	< 0.004	0
Pesticides Simazine	P073	0.1 µg/l	549	0	< 0.002	0.002	0
Pesticides Trichlopyr	P131	0.1 µg/l	549	0	< 0.005	< 0.005	0
Pesticides Trifluralin	P081	0.1 µg/l	549	0	< 0.008	0.008	0
Polycyclic aromatic hydrocarbons	B011F	0.1 µg/l	549	0	0	0.006	0
Selenium	B009	10 µg Se/l	549	0	< 0.31	1.5	0
Tetrachloroethene/Trichloroethene - sum of two substances	D009B	10 µg/l	1	0	0	0	0
Total Trihalomethanes	D011	100 µg/l	549	0	0.795	70.9	0
Totals:			31,138	4			

Table NWL 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 with failures
Aluminium	A021	200 µg Al/l	2,309	5	< 2.9	72	5
Colour	A001	20 mg/l Pt/Co scale	2,310	0	< 0.88	2.489	0
Iron	A022	200 µg Fe/l	2,309	10	< 2.3	149	9
Manganese	A023	50 µg Mn/l	2,293	6	0.37	14	6
Organoleptic Odour	A003	<1 dilution number at 25°C	1,394	0			0
Organoleptic Taste	A004	<1 dilution number at 25°C	1,394	3			3
Sodium	A009	200 mg Na/l	549	0	2.8	64	0
Tetrachloromethane	D008	3 µg/l	1	0	< 0.074	< 0.074	0
Turbidity	A002	4 nephelometric turbidity units	2,310	3	< 0.08	0.498	3
Totals:			14,869	27			

Table NWL 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 ₄ /l	2,310	0	< 0.026	0.035
Chloride (Indicator)	D002A	250 mg Cl/l	549	0	4.9	58
Clostridium Perfringens (Indicator)	C004A	0 number/100 ml	2,293	2	0	0
Coliform Bacteria (Indicator)	C001A	0 number/100 ml	6,476	17	0	0
Colony Counts After 3 Days At 22°C (Indicator)	C007	No abnormal change	2,310	N/A	0	110
Colony Counts After 48 Hours At 37°C (Indicator)	C013	No abnormal change	2,310	N/A	0	73.67
Conductivity (Indicator)	D001	2500 µS/cm	2,310	0	120	846.7
Gross Alpha Activity	F004	0.1 Bq/l	1	0	< 0.02	< 0.02
Gross Beta Activity	F005	1 Bq/l	1	0	0.035	0.035
Hydrogen ion (pH)	A006	6.5 - 9.5 pH range	2,310	2	7	9.189
Residual Disinfectant - Free	C009	No abnormal change	6,476	N/A	0.02	0.76
Residual Disinfectant - Total	C010	No abnormal change	6,476	N/A	0.06	0.87
Sulphate (Indicator)	A007	250 mg SO ₄ /l	549	0	4.25	170
Total organic carbon (indicator)	A017	No abnormal change	1	N/A	2.7	2.7
Tritium (Indicator)	F006	100 Bq/l	1	0	< 4	< 4
Totals:			34,373	21		