

## Drinking Water Quality Report for North Milton Supply Zone ZAW0203

<b>Areas covered by Report:</b>	Brooklands, Milton Keynes and Great Billing, Northampton
<b>Report Period:</b>	01 January 2019 to 31 December 2019
<b>Upstream Zone:</b>	Anglian Water Northampton East WSZ (ZRW18) Anglian Water Newport Pagnell WSZ (ZMW21) Anglian Water Milton Keynes City North West WSZ (ZMW31) Anglian Water Milton Keynes City North East WSZ (ZMW28) Anglian Water Milton Keynes City South East WSZ (ZMW29) Anglian Water Leighton Linlade WSZ (ZMW38)
<b>Population:</b>	3721
<b>Notices:</b>	Undertaking IWN3466 in relation to Total Pesticides and Metaldehyde in the bulk supply provided. This scheme is progressing according to the action plan.

### Commentary on Water Quality

The water supplied to the North Milton Zone originates from a surface water source that is chloraminated. The analysis results indicate the quality of the water supplied to this zone is very good. IWNL had 1 compliance failure during 2019 for Nickel, which was attributed to water fittings. There were 5 customer contacts concerning "Appearance", 1 customer contact relating to "Taste" and 1 customer contact relating to "General Conditions" during the period of this report. The investigations by IWNL concluded that the water supplied was compliant with regulations.

<b>Hardness Rating:</b>	The water supplied to this zone is classified as hard as it contains naturally elevated concentrations of calcium and magnesium.					
	Soft	Moderately Soft	Slightly Hard	Moderately Hard	Hard	Very Hard
CaCO <sub>3</sub> mg/l	0-50	50-100	100-150	150-200	200-300	300+

### Microbiological Indicators

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Coliform Bacteria (Indicator)	No. 100/ml	10	0	0	0.0	0
E.coli (faecal coliforms Confirmed)	No. 100/ml	10	0	0	0.0	0
Enterococci (Confirmed)	No. 100/ml	4	0	0	0.0	0
Sulphite-reducing Clostridia (Confirmed)	No. 100/ml	4	0	0	0.0	0

Physio-Chemical Parameters						
Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Ammonium (Total)	mg/l NH4	4	0.014	0.121	0.0540	0.5
Boron	mg/l B	4	0.09	0.10	0.094	1
Physio-Chemical Parameters Continued						
Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Bromate	ug/l BrO3	4	0.4	1.2	0.75	10
Chloride	mg/l	4	88.6	92.2	90.78	250
Colour	mg/l Pt/Co	4	1	2.3	1.38	20
Cyanide (Total)	ug/l CN	4	0.7	1.7	0.95	50
Electrical Conductivity	uS/cm @ 20 C	4	800	827	811.0	2500
Fluoride (Total)	mg/l F	4	0.26	0.28	0.268	1.5
Free Residual Chlorine	mg/l	10	0.07	0.27	0.15	No Specific PCV
Hydrogen ion	pH value	4	7.33	7.57	7.488	6.5-9.5
Nitrate (Total)	mg/l NO3	2	31.5	32.3	31.90	50
Nitrite - Consumer's Taps	mg/l NO3	2	0.002	0.11	0.0560	0.5
Nitrite/Nitrate formula	No Units	2	0.65	0.67	0.660	1
Sodium	mg/l Na	4	54.1	57.9	56.30	200
Sulphate	mg/l SO4	4	126	134	130.25	250
Total Residual Chlorine	mg/l	10	0.11	0.71	0.388	No Specific PVC
Turbidity (CT)	FTU	4	0.15	0.23	0.188	4
Hydrocarbons / Organics						
Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
1 1 1-Trichloroethane (Total)	ug/l	3	0.04	0.18	0.107	0.1
1 2-Dichloroethane (Total)	ug/l	3	0.07	0.13	0.100	3
Benzene (Total)	ug/l	3	0.02	0.07	0.040	1
Benzo[a]Pyrene (Total)	ug/l	4	0.00022	0.00022	0.000220	0.01
Benzo[b]Fluoranthene (Total)	ug/l	4	0.00052	0.00052	0.000520	The sum of PAHs must be <0.1 ug/l
Benzo[ghi]Perylene (Total)	ug/l	4	0.0004	0.0004	0.000400	The sum of PAHs must be <0.1 ug/l
Benzo[k]Fluoranthene (Total)	ug/l	4	0.00047	0.00047	0.000470	The sum of PAHs must be <0.1 ug/l
Bromodichloromethane (Total)	ug/l	3	4.68	6.65	5.690	60
ChloroDibromomethane (Total)	ug/l	3	10.59	14.11	12.080	100
Indeno[1 2 3-cd]Pyrene (Total)	ug/l	4	0.00048	0.00048	0.000480	The sum of PAHs must be <0.1 ug/l
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	ug/l	4	0	0.002	0.001	0.1
Tetrachloroethene (Total)	ug/l	3	0.05	0.39	0.187	10
Tetrachloromethane (Total)	ug/l	3	0.02	0.14	0.067	3
Total Organic Carbon	mg/l C	4	3.8	4.3	4.13	NO ABNORMAL CHANGE
Total Trichloroethene & Tetrachloroethene (Total by Calculation)	ug/l	3	0	0	0.0	100

**Hydrocarbons / Organics continued**

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Tribromomethane-Bromoform (Total)	ug/l	3	7.09	8.17	7.557	100
Trichloroethene (Total)	ug/l	3	0.05	0.34	0.163	10
Trichloromethane-Chloroform (Total)	ug/l	3	1.58	2.2	1.907	300
Trihalomethanes (Total by Calculation)	ug/l	3	24.26	30.86	27.227	100

**Metals**

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Aluminium (Total)	ug/l Al	4	7.22	7.22	7.220	200
Antimony	ug/l Sb	4	0.38	0.46	0.415	5
Arsenic (Total)	ug/l As	4	0.383	0.46	0.408	10
Cadmium (Total)	ug/l Cd	4	0.008	0.013	0.0118	5
Chromium (Total)	ug/l Cr	4	0.19	0.57	0.310	50
Copper (Total)	mg/l Cu	4	0.0031	0.0472	0.03060	2
Iron (Total)	ug/l Fe	4	6.29	15.8	11.423	200
Lead (10)	ug/l Pb	4	0.08	0.43	0.193	10
Manganese (Total)	ug/l Mn	4	0.22	2.53	0.920	50
Mercury (Total)	ug/l Hg	4	0.03	0.03	0.030	1
Nickel (Total)	ug/l Ni	4	3.16	26.1	9.100	20
Selenium (Total)	ug/l Se	4	0.16	0.31	0.23	10

**Organoleptic Parameters**

Parameter	units of measurement	Number of Samples	Minimum	Maximum	Average	Prescribed Concentration or Value
Odour (Quantitative)	Dilution Number	4	0	0	0.0	0
Taste(Quantitative)	Dilution Number	4	0	0	0.0	0

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**Notes**

1. For some parameters, monitoring occurs at the supplying Water Treatment Works rather than the Water Supply Zone.

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**Glossary of Terms**

<b>Term</b>	<b>Definition</b>
PCV	Prescribed Concentration or Value
mg/l	Milligrammes per Litre or parts per million
µg/l	Microgrammes per Litre or parts per billion
Pt/Co	Platinum/Cobalt
µS/cm	Micro Siemens per Centimetre
Bq/l	Becquerel per Litre
NTU	Nephelometric Turbidity Units

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