

Water Quality Summary Report

Period:	From	1 st January 2020	To	31 st December 2020
Zone Name:	Conningbrook Lakes, Ashford, Kent			
Zone Reference	ZASE01			

Parameter name	Units	Samples taken	< or >	Min	Mean	< or >	Max	Regulatory Limit or Range	No of Failures
Colour	mg/l Pt/Co	3	<	2.9	2.9	<	2.9	20	0
Turbidity	NTU	3	<	0.15	0.21		0.28	4	0
Odour	No.	3		0	0		0	1	0
Taste (Taste Quant)	No.	3		0	0		0	1	0
Hydrogen ion (pH) - Indicator (Hydrogen ion) (pH)	pH value	3		7.31	7.37		7.44	6.5(min) to 9.5(max)	0
Sulphate	mg/l SO4	3		11.1	11.6		11.9	250	0
Sodium (Total)	mg/l Na	3		10.8	11.3		12.1	200	0
Nitrate (Total)	mg/l NO3	3		20.8	21.3		21.7	50	0
Nitrite - Consumer's Taps	mg/l NO2	3	<	0.002	0.003	<	0.004	0.5	0
Nitrite/Nitrate formula	mg/l	3		0.42	0.43		0.43	1	0
Ammonium (Total)	mg/l NH4	3	<	0.008	0.008	<	0.008	0.5	0
Total Organic Carbon	mg/l C	3	<	0.4	0.6	<	0.7	-	0
Aluminium (Total)	µg/l Al	3	<	14.4	14.4	<	14.5	200	0
Iron (Total)	µg/l Fe	3	<	5.23	5.23	<	5.23	200	0
Manganese (Total)	µg/l Mn	3	<	0.85	0.85	<	0.85	50	0
Copper (Total)	mg/l Cu	3		0.039	0.096		0.149	2	0
Fluoride (Total)	mg/l F	3		0.07	0.08		0.1	1.5	0
Arsenic (Total)	µg/l As	3	<	0.12	0.14		0.15	10	0
Cadmium (Total)	µg/l Cd	3	<	0.03	0.03	<	0.03	5	0
Cyanide (Total)	µg/l CN	3	<	5.5	5.5	<	5.5	50	0

Chromium (Total)	µg/l Cr	3		0.43	0.46		0.48	50	0
Mercury (Total)	µg/l Hg	3	<	0.06	0.06	<	0.06	1	0
Nickel (Total)	µg/l Ni	3		0.5	1.8		4.4	20	0
Lead (10)	µg/l Pb	3		0.73	1.11		1.86	10	0
Antimony	µg/l Sb	3	<	0.07	0.07	<	0.07	5	0
Selenium (Total)	µg/l Se	3		0.4	0.4		0.4	10	0
Pesticides (Total by Calculation)	µg/l	3		0	0		0	0.5	0
Polycyclic Aromatic Hydrocarbons (Total by Calculation)	µg/l	3		0	0		0	0.1	0
Coliform Bacteria (Indicator)	No. /100ml	11		0	0		0	1	0
E.Coli (faecal coliforms Confirmed)	No. /100ml	11		0	0		0	1	0
Enterococci (Confirmed)	No. /100ml	3		0	0		0	1	0
Clostridium Perfringens (Sulphite-reducing Clostridia) (Confirmed)	No. /100ml	3		0	0		0	1	0
Colony Counts After 3 Days At 22øc (Colony Counts)	Count/ml at 22øc	3		8	11		16	-	0
Residual Disinfectant - Total	mg/l	11		0.33	0.46		0.62	-	0
Colony Counts After 48 Hours At 37øc (Colony Counts)	Count/ml at 37øc	3		13	20		34	-	0
Conductivity (Electrical Conductivity)	µS/cm @ 20 °C	3		525	536		546	2500	0
Chloride	mg/l C	3		23	23		24	250	0
Boron	mg/l B	3	<	0.032	0.032	<	0.032	1	0
Benzo[a]Pyrene (Total)	µg/l	3	<	0.0006	0.0006	<	0.0006	0.01	0
Tetrachloromethane (Total)	µg/l	3	<	0.13	0.13	<	0.13	3	0
Trichloroethene & Tetrachloroethene - Sum Of 2 Substances (Total by Calculation)	µg/l	3		0	0		0	10	0
Trihalomethanes (Total by Calculation)	µg/l	3		1.49	2.12		3.33	100	0
1,2 Dichloroethane (Total)	µg/l	3	<	0.16	0.16	<	0.16	3	0
Benzene (Total)	µg/l	3	<	0.09	0.09	<	0.09	1	0
Bromate	µg/l BrO3	3	<	0.15	0.18		0.23	10	0
Aldrin	µg/l	3	<	0.005	0.005	<	0.005	0.03	0
Bentazone (Total)	µg/l	3	<	0.004	0.004	<	0.004	0.1	0

Dicamba (Total)	µg/l	3	<	0.012	0.012	<	0.012	0.1	0
Dieldrin (Total)	µg/l	3	<	0.005	0.005	<	0.005	0.03	0
Heptachlor (Total)	µg/l	3	<	0.004	0.004	<	0.004	0.03	0
Heptachlor Epoxide - Total (Trans, CIS) (Heptachlor Epoxide)	µg/l	3		0	0		0	0.03	0
MCPB (Total)	µg/l	3	<	0.018	0.018	<	0.018	0.1	0
Simazine (Total)	µg/l	3	<	0.004	0.004	<	0.004	0.1	0
Pendimethalin (Total)	µg/l	3	<	0.02	0.02	<	0.02	0.1	0

Commentary on Water Quality

All the samples collected from this zone to date have complied with the Water Supply (Water Quality) Regulations 2016. No Undertakings or Authorised Departures currently apply to this water supply zone.

Additional Water Quality Information

The supply to this area is from ground water treated at Godmersham, Chilham and Howfield Water Treatment Works. These works are owned and operated by South East Water. As part of the treatment process at Howfield Water Treatment Works phosphate is dosed for plumbosolvency control. Icosa Water take a bulk supply of water from South East Water with the connection point occurring in South East Water's East Ashford supply zone. This water is transported via Icosa Waters publicly regulated water supply network to supply the new development known locally as Conningbrook Lakes.

Water Hardness Information

Hardness Classification	Hard
Calcium Carbonate (CaCO₃)	265 ppm
Calcium	106 ppm
Degrees Clark	18.6
Degrees French	26.5
Degrees German	14.8
Millimoles per litre	2.7