

Water Quality Summary Report

Period:	From	1 st January 2019	To	31 st December 2019
Zone Name:	Conningbrook – Conningbrook Lakes Ashford			
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	4	<	1	1	<	1	20	0
Turbidity	NTU	4		0.11	0.14		0.18	4	0
Odour	No.	4		0	0		0	1	0
Taste	No.	4		0	0		0	1	0
pH	pH value	4		7.23	7.25		7.28	6.5(min) to 9.5(max)	0
Sulphate	mg/l	4		11.2	12.1		12.9	250	0
Sodium	mg/l	4		10.6	10.9		11.1	200	0
Nitrate	mg/l	4		21.8	26.0		34.8	50	0
Nitrite	mg/l	4	<	0.002	0.004		0.01	0.5	0
Nitrite/Nitrate formula	mg/l	4		0.44	0.52		0.7	1	0
Ammonium	mg/l	4	<	0.004	0.004	<	0.004	0.5	0
Total Organic Carbon	mg/l	4		0.4	0.5		0.8	-	0
Aluminium	µg/l	4	<	3.21	6.22	<	7.22	200	0
Iron	µg/l	4	<	0.7	0.7	<	0.7	200	0
Manganese	µg/l	4	<	0.14	0.18	<	0.22	50	0
Copper	mg/l	4		0.01	0.14		0.25	2	0
Fluoride (Total)	mg/l	4		0.08	0.09		0.1	1.5	0
Arsenic	µg/l	4		0.15	0.17		0.18	10	0
Cadmium	µg/l	4	<	0.013	0.013	<	0.013	5	0
Cyanide	µg/l	4	<	0.7	1.0	<	1.7	50	0
Chromium	µg/l	4		0.6	0.7		0.76	50	0
Mercury (Total)	µg/l	4	<	0.03	0.03	<	0.03	1	0
Nickel (Total)	µg/l	4		0.43	1.88		3.24	20	0

Lead	µg/l	4		0.7	2.63		4.32	10	0
Antimony	µg/l	4	<	0.04	0.10		0.26	5	0
Selenium	µg/l	4	<	0.16	0.26		0.32	10	0
Pesticides	µg/l	5		0	0.003		0.005	0.5	0
Polycyclic Aromatic Hydrocarbons	µg/l	4		0	0		0	0.1	0
Coliform Bacteria	No. /100ml	12		0	0		0	1	0
E.Coli	No. /100ml	12		0	0		0	1	0
Enterococci	No. /100ml	4		0	0		0	1	0
Clostridium Perfringens	No. /100ml	4		0	0		0	1	0
Colony Counts After 3 Days At 22øc	Count	4		1	7		12	-	0
Residual Disinfectant - Total	mg/l	12		0.23	0.34		0.55	-	0
Colony Counts After 48 Hours At 37øc	Count	4		0	3		7	-	0
Conductivity (Electrical Conductivity)	µS/cm @ 20 °C	4		525	532		541	2500	0
Chloride	mg/l	4		22.3	22.6		22.9	250	0
Boron	mg/l	4	<	0.015	0.02	<	0.02	1	0
Benzo[a]Pyrene (Total)	µg/l	4	<	0.0003	0.0003	<	0.0003	0.01	0
Tetrachloromethane (Total)	µg/l	4	<	0.02	0.085	<	0.14	3	0
Trichloroethene & Tetrachloroethene	µg/l	4		0	0		0	10	0
Trihalomethanes (Total by Calculation)	µg/l	4		2.56	3.57		4.91	100	0
1,2 Dichloroethane (Total)	µg/l	4	<	0.07	0.10	<	0.13	3	0
Benzene	µg/l	4	<	0.02	0.05	<	0.07	1	0
Bromate	µg/l	4	<	0.10	0.15		0.3	10	0
Aldrin	µg/l	5	<	0.002	0.004	<	0.01	0.03	0
Bentazone	µg/l	5		0.001	0.002	<	0.002	0.1	0
Dicamba	µg/l	5	<	0.003	0.004	<	0.004	0.1	0
Dieldrin	µg/l	5	<	0.001	0.003	<	0.005	0.03	0
Heptachlor	µg/l	5	<	0.001	0.002	<	0.005	0.03	0
Heptachlor Epoxide	µg/l	5		0	0		0	0.03	0
MCPB	µg/l	5	<	0.004	0.004	<	0.006	0.1	0
Simazine	µg/l	5	<	0.002	0.003		0.004	0.1	0
Pendimethalin	µg/l	5	<	0.002	0.003		0.004	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 Waters 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	Very Hard
Calcium Carbonate (CaCO₃)	265 ppm
Calcium	106 ppm
Degrees Clark	19
Degrees French	27
Degrees German	15
Millimoles per litre	2.7