

Water Quality Summary Report

Period:	From	1 st January 2020	To	31 st December 2020
Zone Name:	Rochester, Riverside			
Zone Reference	ZBSR01			

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		0.18	0.19		0.21	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		7.24	7.39		7.49	6.5(min) to 9.5(max)	0
Sulphate	mg/l SO4	3		43.8	44.8		45.6	250	0
Sodium (Total)	mg/l Na	3		20.8	24.0		25.7	200	0
Nitrate (Total)	mg/l NO3	3		22.7	28.7		34.4	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		0.45	0.57		0.69	1	0
Ammonium (Total)	mg/l NH4	3	<	0.008	0.008	<	0.008	0.5	0
Total Organic Carbon	mg/l C	3		1.4	1.6		1.8	-	0
Aluminium (Total)	µg/l Al	3	<	14.4	14.4	<	14.4	200	0
Iron (Total)	µg/l Fe	3	<	5.23	24.21		40.9	200	0
Manganese (Total)	µg/l Mn	3	<	0.85	1.00		1.31	50	0
Copper (Total)	mg/l Cu	3		0.006	0.023		0.054	2	0
Fluoride (Total)	mg/l F	3		0.08	0.09		0.1	1.5	0
Arsenic (Total)	µg/l As	3		0.17	0.21		0.24	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	<	0.18	0.48		1.09	50	0
Mercury (Total)	µg/l Hg	3	<	0.06	0.06	<	0.06	1	0
Nickel (Total)	µg/l Ni	3		0.97	1.19		1.36	20	0
Lead (10)	µg/l Pb	3		0.07	0.08		0.08	10	0
Antimony	µg/l Sb	3		0.12	0.15		0.17	5	0
Selenium (Total)	µg/l Se	3		0.34	0.35		0.37	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		0	2		3	-	0
Residual Disinfectant - Total	mg/l	11		0.17	0.54		0.76	-	0
Colony Counts After 48 Hours At 37øc (Colony Counts)	Count/ml at 37øc	3		2	6		11	-	0
Conductivity (Electrical Conductivity)	µS/cm @ 20 °C	3		495	537		560	2500	0
Chloride	mg/l C	3		31.6	34.6		38.4	250	0
Boron	mg/l B	3		0.033	0.036		0.039	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		0.46	10	0
Trihalomethanes (Total by Calculation)	µg/l	3		25.56	25.91		26.12	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	0.43		0.78	10	0
Gross Alpha	Bq/l	3	<	0.02	0.02	<	0.022	0.1	0
Gross Beta	Bq/l	3		0.086	0.105		0.126	1.0	0
Tritium	Bq/l	3	<	5.6	5.6	<	5.6	10.0	0

Atrazine (Total)	µg/l	3	<	0.004	0.004	<	0.004	0.1	0
Bentazone (Total)	µg/l	3	<	0.004	0.004	<	0.004	0.1	0
Carbetamide	µg/l	3	<	0.008	0.008	<	0.008	0.1	0
Chlorpyrifos (Total) (Chlorpyriphos Ethyl)	µg/l	3	<	0.016	0.016	<	0.016	0.1	0
Clopyralid (Total)	µg/l	3	<	0.015	0.015	<	0.015	0.1	0
2 4-D (Total)	µg/l	3	<	0.012	0.012	<	0.012	0.1	0
Dicamba (Total)	µg/l	3	<	0.012	0.012	<	0.012	0.1	0
Dichlorprop (Total)	µg/l	3	<	0.017	0.017	<	0.017	0.1	0
Diuron (Total)	µg/l	3	<	0.009	0.009	<	0.009	0.1	0
Flutriafol	µg/l	3	<	0.004	0.005	<	0.005	0.1	0
Fluroxypyr	µg/l	3	<	0.009	0.009	<	0.009	0.1	0
Glyphosate	µg/l	3	<	0.005	0.005	<	0.005	0.1	0
MCPP(Mecoprop) (Total)	µg/l	3	<	0.009	0.009	<	0.009	0.1	0
MCPA (Total) 4-chloro-o-tolyloxyacetic acid	µg/l	3	<	0.012	0.012	<	0.012	0.1	0
Pentachlorophenol (Total)	µg/l	3	<	0.02	0.02	<	0.02	0.1	0
Propiconazole	µg/l	3	<	0.007	0.007	<	0.007	0.1	0
Propyzamide (Total)	µg/l	3	<	0.009	0.009	<	0.009	0.1	0
Simazine (Total)	µg/l	3	<	0.004	0.004	<	0.004	0.1	0
Tri-allate (Total)	µg/l	3	<	0.005	0.005	<	0.005	0.1	0
Pendimethalin (Total)	µg/l	3	<	0.02	0.02	<	0.02	0.1	0
Triclopyr (Total)	µg/l	3	<	0.028	0.028	<	0.028	0.1	0
Trietazine	µg/l	3	<	0.004	0.004	<	0.004	0.1	0
Diflufenican (Total)	µg/l	3	<	0.007	0.007	<	0.007	0.1	0
Tebuconazole (Total)	µg/l	3	<	0.005	0.005	<	0.005	0.1	0
Metazachlor	µg/l	3	<	0.006	0.006	<	0.006	0.1	0
Cyproconazole	µg/l	3	<	0.007	0.007	<	0.007	0.1	0
Epoxyconazole (Total)	µg/l	3	<	0.005	0.005	<	0.005	0.1	0
Metaldehyde	µg/l	3	<	0.005	0.006	<	0.007	0.1	0
Flufenacet	µg/l	3	<	0.008	0.008	<	0.008	0.1	0

Boscalid	µg/l	3	<	0.011	0.011	<	0.011	0.1	0
Quinmerac	µg/l	3	<	0.006	0.006	<	0.006	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.

One undertaking currently applies to this water supply zone. Undertaking ICW-2020-00003 in relation to metaldehyde in the bulk supply provided. This scheme is progressing according to the action plan. No authorised departures currently apply to this water supply zone.

Additional Water Quality Information

The supply to this area is a mixture of surface & ground water. The water treated at Burham, Nashenden & Luton Water Treatment Works. These works are owned and operated by Southern Water. As part of the treatment process phosphate is dosed for plumbosolvency control.

Icosa Water take a bulk supply of water from Southern Water with the connection point occurring in Southern Water's Borstal supply zone. This water is transported via Icosa Waters publicly regulated water supply network to supply the new development at Rochester Riverside. This development is between Corporation Street and The River Medway in Rochester.

Water Hardness Information

Hardness Classification	Hard
Calcium Carbonate (CaCO₃)	222 ppm
Calcium	88.8 ppm
Degrees Clark	15.5
Degrees French	22.2
Degrees German	12.4
Millimoles per litre	2.2