

Water Quality Summary Report

Period:	From	1 st July 2019	To	31 st December 2019
Zone Name:	Riverside – Rochester			
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	2	<	1	1	<	1	20	0
Turbidity	NTU	2		0.15	0.15		0.15	4	0
Odour	No.	2		0	0		0	1	0
Taste	No.	2		0	0		0	1	0
pH	pH value	2		7.3	7.4		7.48	6.5(min) to 9.5(max)	0
Sulphate	mg/l	2		53.5	57.6		61.7	250	0
Sodium	mg/l	2		36.7	38.7		40.6	200	0
Nitrate	mg/l	2		20.2	21.7		23.1	50	0
Nitrite	mg/l	2	<	0.002	0.002	<	0.002	0.5	0
Nitrite/Nitrate formula	mg/l	2		0.40	0.43		0.46	1	0
Ammonium	mg/l	2	<	0.004	0.004	<	0.004	0.5	0
Total Organic Carbon	mg/l	2		1.6	1.7		1.8	-	0
Aluminium	µg/l	2		11	11.7		12.3	200	0
Iron	µg/l	2	<	0.7	1.9		3.2	200	0
Manganese	µg/l	2	<	0.22	0.57		0.92	50	0
Copper	mg/l	2		0.018	0.023		0.028	2	0
Fluoride (Total)	mg/l	2		0.08	0.09		0.1	1.5	0
Arsenic	µg/l	2		0.23	0.25		0.26	10	0
Cadmium	µg/l	2	<	0.013	0.015		0.016	5	0
Cyanide	µg/l	2	<	1.7	3.6	<	5.5	50	0
Chromium	µg/l	2		1.2	1.3		1.3	50	0
Mercury (Total)	µg/l	2	<	0.03	0.03	<	0.03	1	0
Nickel (Total)	µg/l	2		0.99	1.11		1.22	20	0

Lead	µg/l	2		0.17	0.35		0.52	10	0
Antimony	µg/l	2		0.25	0.26		0.27	5	0
Selenium	µg/l	2	<	0.16	0.2		0.24	10	0
Pesticides	µg/l	2		0.03	0.04		0.046	0.5	0
Polycyclic Aromatic Hydrocarbons	µg/l	2		0	0		0	0.1	0
Coliform Bacteria	No. /100ml	6		0	0		0	1	0
E.Coli	No. /100ml	6		0	0		0	1	0
Enterococci	No. /100ml	2		0	0		0	1	0
Clostridium Perfringens	No. /100ml	2		0	0		0	1	0
Colony Counts After 3 Days At 22øc	Count	2		6	53		99	-	0
Residual Disinfectant - Total	mg/l	6		0.21	0.38		0.54	-	0
Colony Counts After 48 Hours At 37øc	Count	2		1	9		16	-	0
Conductivity (Electrical Conductivity)	µS/cm @ 20 °C	2		521	538		555	2500	0
Chloride	mg/l	2		42.9	45.8		48.6	250	0
Boron	mg/l	2		0.065	0.078		0.09	1	0
Benzo[a]Pyrene	µg/l	2	<	0.0003	0.0003	<	0.0003	0.01	0
Tetrachloromethane	µg/l	2	<	0.02	0.03	<	0.04	3	0
Trichloroethene & Tetrachloroethene	µg/l	2		0	0.20		0.39	10	0
Trihalomethanes	µg/l	2		35.54	37.23		38.91	100	0
1,2 Dichloroethane	µg/l	2	<	0.07	0.10	<	0.13	3	0
Benzene	µg/l	2	<	0.02	0.03	<	0.03	1	0
Bromate	µg/l	3	<	0.1	0.7		1.4	10	0
Atrazine	µg/l	2		0.001	0.001		0.001	0.1	0
Bentazone	µg/l	2	<	0.001	0.001	<	0.001	0.1	0
Carbetamide	µg/l	2	<	0.002	0.002	<	0.002	0.1	0
Chlorpyrifos	µg/l	2	<	0.002	0.004	<	0.005	0.1	0
Clopyralid	µg/l	3		0.011	0.016		0.021	0.1	0
2,4-D	µg/l	2	<	0.004	0.004	<	0.004	0.1	0
Dicamba	µg/l	2	<	0.003	0.003	<	0.003	0.1	0
Dichlorprop	µg/l	2	<	0.004	0.004	<	0.004	0.1	0
Diuron	µg/l	2	<	0.002	0.004	<	0.005	0.1	0
Flutriafol	µg/l	2		0.003	0.003		0.003	0.1	0
Fluroxypyr	µg/l	2	<	0.003	0.003	<	0.003	0.1	0

Glyphosate	µg/l	2	<	0.002	0.002	<	0.002	0.1	0
MCPP	µg/l	2	<	0.002	0.002	<	0.002	0.1	0
MCPA	µg/l	2	<	0.003	0.003	<	0.003	0.1	0
Pentachlorophenol	µg/l	2	<	0.005	0.006	<	0.006	0.1	0
Propiconazole	µg/l	2	<	0.002	0.002	<	0.002	0.1	0
Propyzamide	µg/l	2	<	0.003	0.004	<	0.004	0.1	0
Simazine	µg/l	2	<	0.001	0.002	<	0.002	0.1	0
Tri-allate	µg/l	2	<	0.001	0.002	<	0.002	0.1	0
Pendimethalin	µg/l	2	<	0.002	0.003	<	0.003	0.1	0
Triclopyr	µg/l	2	<	0.003	0.003	<	0.003	0.1	0
Trietazine	µg/l	2	<	0.001	0.001	<	0.001	0.1	0
Diflufenican	µg/l	2	<	0.001	0.002	<	0.002	0.1	0
Tebuconazole	µg/l	2	<	0.001	0.002	<	0.002	0.1	0
Metazachlor	µg/l	2	<	0.002	0.002	<	0.002	0.1	0
Cyproconazole	µg/l	2	<	0.001	0.001	<	0.001	0.1	0
Epoxyconazole	µg/l	2	<	0.001	0.002	<	0.002	0.1	0
Metaldehyde	µg/l	2		0.014	0.015		0.015	0.1	0
Flufenacet	µg/l	2	<	0.002	0.002	<	0.002	0.1	0
Boscalid	µg/l	2	<	0.003	0.004	<	0.004	0.1	0
Quinmerac	µg/l	2	<	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 a mixture of surface & ground water. The water treated at Burham, Narshenden & 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 Waters 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	Moderately Soft
Calcium Carbonate (CaCO₃)	93 ppm
Calcium	38 ppm
Degrees Clark	8
Degrees French	9.3
Degrees German	6
Millimoles per litre	1