

Average water quality at water treatment plants and distribution network in City of Tampere (Finland) 1.1.2023-31.12.2023

	Unit	Method	Kaupinoja wtp	Rusko wtp	Messukylä wtp	Mustalampi wtp	Hyhky wtp	Pinsio wtp	Julkujärvi wtp	Distribution Network	Quality recommendation/ requirement *
Microbiological parameters											
Coliform bacteria (inc. <i>e.coli</i>)	pmy/100ml	SFS 3016 / SFS_EN ISO 9308-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Heterotrophic plate count 22°C	pmy/ml	SFS-EN ISO 6222	0	0	0	0	0	0	0	0	**
Heterotrophic plate count 37°C	pmy/ml	SFS-EN ISO 6222	0	0	0	0	0	0	0	0	
Intestinal enterococci	pmy/100ml	EN ISO 7899-2	0	0						0	0
Chemical and indicator parameters											
Temperature	°C	Internal method	6.9	8.4	7.4	8.3	7.7	6.0	6.6	8.5	
pH		SFS 3021	7.8	8.0	7.9	7.9	7.8	7.7	7.9	8	≥ 6,5 and ≤ 9,5
Turbidity	NTU	ISO 7027	0.11	0.08	0.07	0.07	0.06	0.06	0.12	0.16	***
Alkalinity	mmol/l	SFS 3005	0.71	0.69	1.3	0.79	1.1	0.81	0.92		
Total organic carbon	mg/l	SFS-EN 1484	2.1	1.8	0.87	0.85	0.68	0.65	0.64	1.5	**
Iron, Fe	mg/l	SFS 3028	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.05	0.04	0.2
Manganese, Mn	mg/l	SFS 3033	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.01	0.01	0.05
Conductivity 25 °C	mS/m	SFS 3003	17.2	15	33	31	27	15	15	20	250
Colour	mgPt/l	SFS-EN ISO 7887	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	***
Free chlorine	mg/l	SFS-EN ISO 7393-2	0.37	0.36	0.17	0.21	0.16	0.15	0.13	0.1	
Total chlorine, Cl ₂	mg/l	SFS-EN ISO 7393-2	0.45	0.43	0.22	0.24	0.19	0.18	0.16	0.15	
Permanent hardness	°dH	SFS 3003	3.8	3.4	5.8	5.1	4.7	1.9	1.9	3.8	
Permanent hardness	mmol/l	SFS 3003	0.68	0.60	1.0	0.91	0.84	0.34	0.35	0.67	
Calcium, Ca	mg/l	ISO 11885	26	21	25	24	24	9.2	9.2		
Magnesium, Mg	mg/l	ISO 11885	1.4	1.8	12	9.2	7.0	2.9	2.9		
Aluminium, Al	mg/l	SFS 5736	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		0.2
Potassium, K	mg/l	ISO 11885	1.0	1.5	5	3.7	3.2	1.8	1.8		
Sodium, Na	mg/l	ISO 11885	3.7	3.1	16	18	14	16	15		200
Chloride, Cl	mg/l	ISO 10304	4.8	4.3	26	32.8	23	10.7	7.3		250
Fluoride, F	mg/l	ISO 10304	0.09	0.11	0.3	0.17	0.17	0.08	0.10		1.5
Sulphate	mg/l	ISO 10304	34	27	47	46	27	8.8	8.8		250
Nitrate	mg/l	ISO 13395	0.83	0.51	0.51	5.6	5.9	5.3	4.3		50
Nitrite	mg/l	SFS 3029	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.5
Ammonium	mg/l	SFS 3032	0.002	0.002	0.001	0.001	0.001	0.002	0.002		0.5
Odour		Internal method	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	***
Taste		Internal method	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	Accepted	***

* Finnish Decrees of Drinking Water Quality STM 1352/2015, STM 683/2017 ja STM 2/2023 (Comply with EU Directive 2020/2184 on the quality of water intended for human consumption)

** No abnormal change

*** Acceptable to consumers and no abnormal change