

**Table 1**

Changes in the concentration of manganese in the filtrate with sodium hypochlorite

<b>Dose of sodium hypochlorite</b> [mg/dm <sup>3</sup> ]	<b>Initial concentration of manganese</b> [mg/dm <sup>3</sup> ]	<b>Output concentration of manganese</b> [mg/dm <sup>3</sup> ]	<b>Number of captured manganese</b> [mg/dm <sup>3</sup> ]	<b>Efficiency of manganese removal [%]</b>	<b>Ratio of Cl<sub>2</sub> and captured Mn</b> [mg/mg]
0.2	0.33	0.15	0.18	54.5	1.11
0.5	0.32	0.24	0.08	25.0	6.25
1.0	0.33	0.28	0.05	15.2	20.00
1.5	0.33	0.29	0.04	12.1	37.50
2.0	0.31	0.26	0.05	16.1	40.00
3.0	0.32	0.25	0.07	21.9	42.86
4.0	0.31	0.22	0.09	29.0	44.44
5.0	0.32	0.21	0.11	34.4	45.45
6.0	0.33	0.22	0.11	33.3	54.55
8.0	0.31	0.22	0.09	29.0	88.89
10.0	0.32	0.21	0.11	34.4	90.91

**Table 2**

Changes in the concentration of manganese in the filtrate with oxygen

<b>Dose of oxygen</b> [mg/dm <sup>3</sup> ]	<b>Initial concentration of manganese</b> [mg/dm <sup>3</sup> ]	<b>Output concentration of manganese</b> [mg/dm <sup>3</sup> ]	<b>Number of captured manganese</b> [mg/dm <sup>3</sup> ]	<b>Efficiency of manganese removal [%]</b>	<b>Ratio of O<sub>2</sub> and captured Mn</b> [mg/mg]
0.2	0.33	0.25	0.08	24.2	2.50
0.5	0.32	0.24	0.08	25.0	6.25
1.0	0.33	0.22	0.11	33.3	9.09
1.5	0.33	0.14	0.19	57.6	7.89
2.0	0.31	0.12	0.19	61.3	10.53
3.0	0.32	0.11	0.21	65.6	14.29
4.0	0.31	0.08	0.23	74.2	17.39
5.0	0.32	0.08	0.24	75.0	20.83
6.0	0.33	0.07	0.26	78.8	23.08