

**Table 3.2** Average influent flow and water quality parameters for the eight SAPS systems. Numbers in parentheses represent the range of observed values.

System	n	Flow (gpm)	Residence time (h)	pH <sup>1</sup> (su)	Fe (mg/l)	Mn (mg/l)	Sulfate (mg/l)	Alkalinity <sup>2</sup> (mg/l)	Acidity <sup>2</sup> (mg/l )
BEL1	11	50.0 (20.0 - 80.0)	3.6 (2.2 - 8.9)	4.6 (3.7 - 4.9)	0.53 (0.23 - 0.99)	2.32 (1.81 - 3.24)	517 (216 - 914)	0.1 (1.0 - 0.0)	105.2 (56.0 - 176.0)
BEL2	11	48.6 (20.0 - 80.0)	14.3 (6.8 - 27.2)	5.0 (4.6 - 6.0)	0.64 (0.16 - 3.53)	2.18 (1.46 - 3.14)	569 (210 - 974)	1.6 (0.0 - 9.0)	51.8 (17.0 - 134.0)
LLC2	16	26.7 (5.0 - 55.0)	16.3 (4.7 - 52.3)	4.4 (3.4 - 6.3)	0.87 (0.24-10.66)	50.3 (14.0 - 95.0)	734 (90.6 - 2025)	0.6 (0.0 - 4.0)	182.9 (62.0- 287.0)
LLC3	16	26.7 (5.0 - 55.0)	20.1 (5.9 - 64.7)	4.6 (3.4 - 7.6)	1.70 (0.27 - 6.37)	48.8 (15.0 - 98.0)	739 (64.5 - 1688 )	1.4 (0.0 - 12.0)	131.1 (8.0 - 260.0)
LLC4	16	26.4 (5.0 -55.0)	11.8 (3.1 - 34.4)	5.0 (4.3 - 6.4)	1.68 (0.38 - 4.47)	46.4 (4.26 - 92.0)	670 (23.1 - 1531)	2.7 (0.0 - 48.0)	119.9 (42.0 - 302.0)
PMAC	48	1.0 (0.1 - 5.0)	625.2 (32.9 - 2191.1)	4.40 (3.1 - 5.8)	121.7 (12.0 - 356.0)	10.3 (3.61 - 27.0)	1153 (300 - 3120)	2.0 (0.0 - 38.0)	196.2 (6.0 - 585.0)
USC1	19	18.0 (2.0 - 40.0)	89.8 (26.6 - 531.5)	4.0 (3.6 - 4.4)	1.07 (0.44 - 1.82)	35.1 (12.0 - 137.0)	686 (90 - 2019)	0.1 (0.0 - 1.0)	256.2 (86.0 - 382.0)
USC2	19	18.3 (2.0 - 40.0)	50.3 (15.2 - 303.9)	5.1 (4.5 - 6.5)	0.75 (0.19 - 2.18)	19.3 (4.41 - 39.0)	540 (121 - 1395)	28.5 (0.0 - 142.0)	72.2 (0.0 - 218.0)

<sup>1</sup> Value represents median

<sup>2</sup> CaCO<sub>3</sub> equivalent

**Table 3.3** Average effluent water quality parameters for the eight SAPS. Numbers in parentheses represent the range of observed values.

System	n	pH <sup>1</sup> (su)	Fe (mg/l)	Mn (mg/l)	Sulfate (mg/l)	Alkalinity <sup>2</sup> (mg/l)	Acidity <sup>2</sup> (mg/l )	Net Alkalinity Generated <sup>2</sup> (mg/l)
BEL1	11	5.0 (4.6 - 6.0)	0.64 (0.16 - 3.53)	2.18 (1.46 - 3.14)	569 (210 - 974)	1.6 (0.0 - 9.0)	51.8 (17.0 - 134.0)	54.8 (30.0 - 96.0)
BEL2	11	6.2 (5.6 - 6.7)	0.38 (0.10 - 1.05)	2.14 (0.19 - 3.64)	541 (198 - 1086)	42.5 (2.0 - 146.0)	5.0 (0.0 - 22.0)	87.7 (26.0 - 190)
LLC2	16	4.6 (3.4 - 7.6)	1.7 (0.27 - 6.37)	48.8 (15.00 - 98.0)	739 (64 - 1688 )	1.4 (0.0 - 12.0)	131.1 (8.0 - 260.0)	52.6 (-12.0 - 170.0)
LLC3	16	5.0 (4.3 - 6.4)	1.68 (0.38 - 4.47)	46.4 (4.26 - 92.0)	670 (23.1 - 1531)	2.7 (0.0 - 48.0)	119.9 (42.0 - 302.0)	12.5 (-131.0 - 184.0)
LLC4	16	5.8 (4.8 - 6.9)	2.33 (0.67 - 5.12)	43.2 (7.13 - 64.0)	651 (43.1 - 1382)	19.9 (0.0 - 73.0)	49.7 (0.0 - 138.0)	87.4 (-50.0 - 313.0)
PMAC	48	6.5 (5.64 - 7.7)	15.45 (1.58 - 89.0)	10.3 (4.06 - 28.0)	1107 (35.0 - 2880)	153.1 (33.0 - 258.0)	2.8 (0.0 - 49.0)	343.3 (130.0 - 673.0)
USC1	19	4.7 (4.2 - 6.2)	1.16 (0.51 - 2.51)	31.6 (8.4 - 124.0)	508 (94.0 - 1457)	8.0 (0.0 - 124.0)	195.8 (0.0 - 472.0)	68.3 (-276.0 - 438.0)
USC2	19	6.0 (4.6 - 6.7)	0.68 (0.22 - 2.06)	16.0 (6.9 - 38.9)	283 (140 - 1380)	54.0 (0.0 - 160.0)	0.0 (-200.0 - 160.0)	48.0 (-336.0 - 200.0)

<sup>1</sup> Value represents median

<sup>2</sup> CaCO<sub>3</sub> equivalent