

Parameters	Low pH reactor (pH6.5)				
Time	Acclimation cycle	0 h	24 h	48 h	72 h
pH	7.36	7.00	6.26	6.28	6.46
EC, $\mu\text{S}/\text{cm}$	1138	1232	1370	1356	1346
Temperature, $^{\circ}\text{C}$	21.8	21.8	22.1	19.6	22.7
TN, mg/l	38	41	41	45	40
NH <sub>4</sub> -N, mg/l	1.44	1.36	7.35	9.35	10.50
NO <sub>3</sub> -N, mg/l	26.27	27.35	26.53	22.07	18.98
NO <sub>2</sub> -N, mg/l	2.067	0.176	0.156	0.158	0.957
TP, mg/l	10.06	12.52	16.86	25.06	21.32
PO <sub>4</sub> , mg/l	4.70	5.12	13.14	17.64	18.50
COD, mg/l	93	130	137	170	80
TOC, mg/l	17.62	15.62	18.51	20.69	20.97
IC, mg/l	20.53	6.12	1.51	2.05	3.04
TC, mg/l	38.15	21.75	20.01	22.73	24.01
SVI <sub>30</sub> , ml/g	87.78	81.73	94.15	100.32	107.25
SDI <sub>30</sub> , g/ml	1.14	1.22	1.06	1.03	0.99
SVI <sub>5</sub> , ml/g	221.46	209.67	224.61	256.75	230.01
DO, mg/l	7.66	7.95	8.30	8.43	8.27

Parameters	High pH reactor (pH8.5)				
Time	Acclimation cycle	0 h	24 h	48 h	72 h
pH	7.50	7.77	8.00	7.98	7.97
EC, $\mu\text{S}/\text{cm}$	1144	1212	1308	1309	1322
Temperature, $^{\circ}\text{C}$	22.0	21.9	22.2	19.4	22.7
TN, mg/l	40	39	41	43	45
NH <sub>4</sub> -N, mg/l	1.92	0.85	0.60	0.60	0.66
NO <sub>3</sub> -N, mg/l	28.97	26.20	31.73	23.13	25.03
NO <sub>2</sub> -N, mg/l	2.198	0.075	0.052	0.045	0.077
TP, mg/l	7	6.06	8.24	11.34	15.62
PO <sub>4</sub> , mg/l	3.1	3.12	5.92	9.48	13.6
COD, mg/l	80	68	60	58	60
TOC, mg/l	16.26	15.08	15.42	15.14	15.09
IC, mg/l	21.22	26.75	35.12	35.83	36.52
TC, mg/l	37.48	41.83	50.54	50.97	51.61
SVI <sub>30</sub> , ml/g	90.09	85.18	88.35	88.42	90.15
SDI <sub>30</sub> , g/ml	1.11	1.18	1.14	1.14	1.12
SVI <sub>5</sub> , ml/g	226.92	237.07	235.29	245.77	214.71
DO, mg/l	7.75	8.21	8.43	8.37	8.46

Parameters	t.test	significance
pH	0.002	yes
EC, $\mu\text{S}/\text{cm}$	0.311	no
Temperature, $^{\circ}\text{C}$	0.483	no
TN, mg/l	0.401	no
NH <sub>4</sub> -N, mg/l	0.029	yes
NO <sub>3</sub> -N, mg/l	0.122	no
NO <sub>2</sub> -N, mg/l	0.358	no
TP, mg/l	0.028	yes
PO <sub>4</sub> , mg/l	0.112	no
COD, mg/l	0.011	yes
TOC, mg/l	0.014	yes
IC, mg/l	0.000	yes
TC, mg/l	0.001	yes
SVI <sub>30</sub> , ml/g	0.135	no
SDI <sub>30</sub> , g/ml	0.167	no
SVI <sub>5</sub> , ml/g	0.362	no
DO, mg/l	0.272	no