

Supplemental Table S1: Application rate for TS and plant-available nutrients(*).

Items	LSM			Influent		
	mg/L	Kg/1000L	kg/ha	mg/L	Kg/1000L	kg/ha
TS	7.7	0.88	1063	6.0	0.006	512
TN	969	0.969		1482	1.482	
NH ₄ -N	270	0.270		751	0.751	
NO ₃ -N	173	0.173		162	0.162	
Org-N*	526	0.526		569	0.006	
PAN*+	811.2	0.8112	1063*	1311.3	1.3113	85411*
P	126	0.126		569	0.569	
P ₂ O ₅ *	289	0.289	40*	323	0.323	28*
K	788	0.788		1311.3	1.311	
K ₂ O*	950	0.950	131*	1104	1.104	94*
+PAN = (0.7*Org-N + NH ₄ -N + NO ₃ -N)						

Supplemental Table S2: Application rate for heavy metals and minerals.

Items	LSM			Influent		
	mg/kg	g/ha	kg/ha	mg/kg	g/ha	kg/ha
Cr	1.32	1.40	0.0014	1.1	1.17	0.0012
Cu	1.22	1.30	0.0013	1.2	1.28	0.0013
Ni	0.17	0.18	0.0002	0.5	0.53	0.0005
Zn	6.87	7.30	0.0073	5.7	6.06	0.0061
Mg	119.6	127.15	0.1271	100.2	106.52	0.1065
Ca	157.5	167.44	0.1674	164.9	175.31	0.1753
SO ₄	141	149.90	0.1499	134.6	143.10	0.1431
Fe	24.4	25.94	0.0259	29.5	31.36	0.0314