

Table 1. COD, nitrogen, and phosphorus results for reactors shown in Figure 2^a.

	Reactor					
	A (control)	B (+P)	C (+P)	D (+N)	E (+Et)	F (+P,N,Et)
Initial: ^b						
COD (mg/l)	250	250	250	250	1290	1290
NO ₂ ⁻ (mg N/l)	4.4	4.4	4.4	4.4	4.4	4.4
NO ₃ ⁻ (mg N/l)	22.4	22.4	22.4	33.7	22.4	33.7
NH ₄ ⁺ (mg N/l)	ND ^a	ND	ND	ND	ND	ND
PO ₄ ³⁻ (mg P/l)	ND	1.6	3.3	ND	ND	3.3
Final:						
COD (mg/l)	57	49	56	67	440	100
NO ₂ ⁻ (mg N/l)	5.7	4.9	5.6	6.1	8.2	ND
NO ₃ ⁻ (mg N/l)	20.8	19.4	18.2	35.5	3.9	ND
NH ₄ ⁺ (mg N/l)	0.1	0.1	0.1	0.4	0.3	ND
PO ₄ ³⁻ (mg P/l)	ND	1.5	3.5	ND	ND	3.2
% Removal						
COD	77	81	78	73	66	92
N	1.1	9.0	11	0	54	100
P	-	6.3	0	-	-	3.0

^a ND = Not detected; Et = ethanol.

^b After amendments.

Table 2. COD, nitrogen, and phosphorus results for reactors shown in Figure 3^a.

	Reactor					
	A (control)	B (+lP, lEt)	C (+mP, lEt)	D (+lP, hEt)	E (+mP, hEt)	F (+hP, lEt)
Initial: ^b						
COD	250	460	460	1300	1300	460
NO ₂ ⁻ (mg N/l)	3.2	3.2	3.2	3.2	3.2	3.2
NO ₃ ⁻ (mg N/l)	23.8	23.8	23.8	23.8	23.8	23.8
NH ₄ ⁺ (mg N/l)	ND	ND	ND	ND	ND	ND
PO ₄ ³⁻ (mg P/l)	ND	0.8	1.6	0.8	1.6	3.3
Final:						
COD	39	51	45	65	65	46
NO ₂ ⁻ (mg N/l)	4.7	3.1	5.3	ND	ND	5.6
NO ₃ ⁻ (mg N/l)	25.5	1.2	7.9	ND	ND	8.4
NH ₄ ⁺ (mg N/l)	0.2	4.1	6.7	0.4	4.3	9.5
PO ₄ ³⁻ (mg P/l)	ND	ND	1.3	ND	0.5	3.4
% Removal						
COD	84	89	90	95	95	90
N	0	69	26	99	84	13
P	-	100	19	100	69	0

^a ND = Not detected; lP = low P; mP = mid P; hP = high P; lEt = low ethanol; hEt = high ethanol.

^b After amendments.

Table 3. Maximum percentages of ANT isomers formed per mol DNT consumed.

	Reactor					
	A	B	C	D	E	F
Fig. 1	23	23	69	93		
Fig. 2	7.8	4.8	5.6	6.8	9.3	16
Fig. 3	6.1	9.3	7.4	14	12	8.6
Fig. 4	14	14	15	14	14	15
Fig. 5	20	6.3	18	8.5	18	