Chapter IV



EXPERIMENTAL RESULTS

All the data obtained are shown in table 1 to table 7, temperatures during the experiments from 26 - 32 C. (normal condition)

Figure 7 shows the reducing rate of BOD of the samples
Figure 8 shows the reducing rate of COD of the samples
Figure 9 shows the variation of residual dissolved
oxygen of the samples

Figure 10 shows the variation of suspended solid of the samples

Figure 11 shows the relationship between BOD and COD removal rate

Figure 12 shows the percent reduction of COD of the samples

However, only one curve to be shown, since the curve shown the result of experiments of various samples appeared to be similar Nitrates at first day of the samples were found from following sources

- 1. Death of plant and bacteria decomposition
- 2. Nitrogen in the atmosphere by the action of electrical discharge and nitrogen fixing bacteria and algae
- 3. Ground water

Table 1

Time in	Temp	D.O	COD	BOD	SS
days	Ĉ	mg/L	mg/L	mg/L	mg/L
1	28	0.2	5760	3120	180
2	29	0.5	4980	-	470
3	27	0.5	3115	- ·	580
4	30	0.6	2080	-	490
5	29	1.1	1145	<u></u>	230
6	31	2.6	680	-	189
7	29	4.2	410	213	126
					The state of the s

NO3 at first day is about 307 ppm.

Table 2

Time in days 1 2 3	Temp C 30 31 30	D.O mg/L O.2 O.4	C O D mg/L 5864 4936 3080	B O D mg/L 3176 -	SS mg/L 240 520 700
5	29	0.8	2950 1200	_	635 463
7	32 26	3.0 4.7	718 430	236	318 205

NO3 at first day is about 273 ppm.

Table 3



Time in days	Temp Ĉ	D.O mg/L	C O D	B O D mg/L	SS mg/L
1	30	0.2	6250	3346	236
2	26	0.4	5574	-	533
3	29	0.5	4053	-	698
4	31	0.9	2734		591
5	31	1.7	1634	-	440
6	30	3.2	827	-	293
7	31	4.5	502	285	184

NO₃ at first day is about 305 ppm.

Table 4

Time in	Temp	D.O	COD	вор	SS
days	, C	mg/L	mg/L	mg/L	mg/L
1	32	0.2	6530	3510	296
2	31	0.5	5973	-	578
3	32	0.6	4316	-	698
4	30	0.6	2965	-	630
5	31	1.0	1870	, ma	464
6	30	3.2	1134	-	327
7	29	4.3	606	329	201
					and adjust a special services and a service

NO3 at first day is about 310 ppm.

Table 5

Time in days	Temp C	D.O mg/L	C O D	B O D mg/L	ss mg/L
1	28	0.2	6726	3651	295
2	. 29	0.4	6199	-	567
3	30	0.6	4877	-	709
4	31	0.7	2965	-	641
5	31	1.3	1994	-	462
6	30	2.9	1136	_	310
7	29	4.1	597	321	199

NO₃ at first day is about 317 ppm.

Table 6

Time in	Temp	D.O	COD	вор	SS
days	°C	mg/L	mg/L	mg/L	mg/L
					×
1	27	0.2	6954	3742	347
2	26	0.5	6594	-	496
3	26	0.5	5916	-	676
4	29	0.7	3687	outs	729
5	31	1.2	2392	-	534
6	31	2.1	1455		365
7	30	3.2	801	443	248
8	31	4.5	656	362	178

NO₃ at first day is about 312 ppm.

Table 7

Time in	Temp C	D.O mg/L	C O D	B O D	SS mg/L
		gyadar adalga y firmi diminingiligga saha sasaningin ligih hake adaminga saja, agadih adalah salah saha	genergen ikkelingkommen (av.) var ^e n der dig som enteknin til en sich i dan betilden frem en signifikation en		
1	32	0.2	7370	3920	298
2	32	0.4	6904	-	54 7
3	31	0.5	5981	-	693
4	30	0.7	4059	-	546
5	30	1.1	2463		349
6	31	2.0	1416	-	218
7	30	3.9	653	364	201

NO3 at first day is about 340 ppm.











