Fig. 4-4 Simulated and Observed Hydraulic Head at Location A

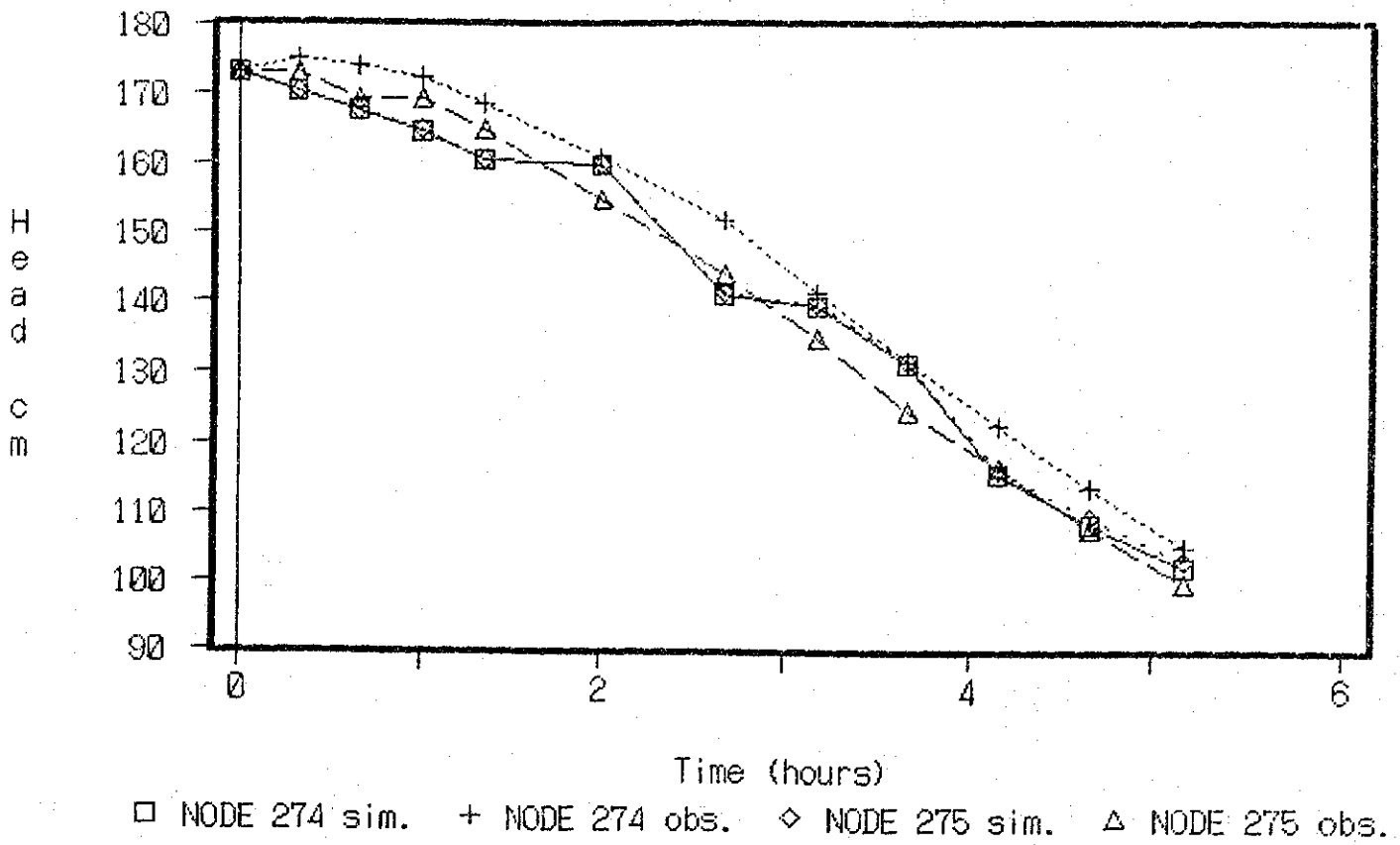


Fig. 4-5 Simulated and Observed Hydraulic Head at Location B

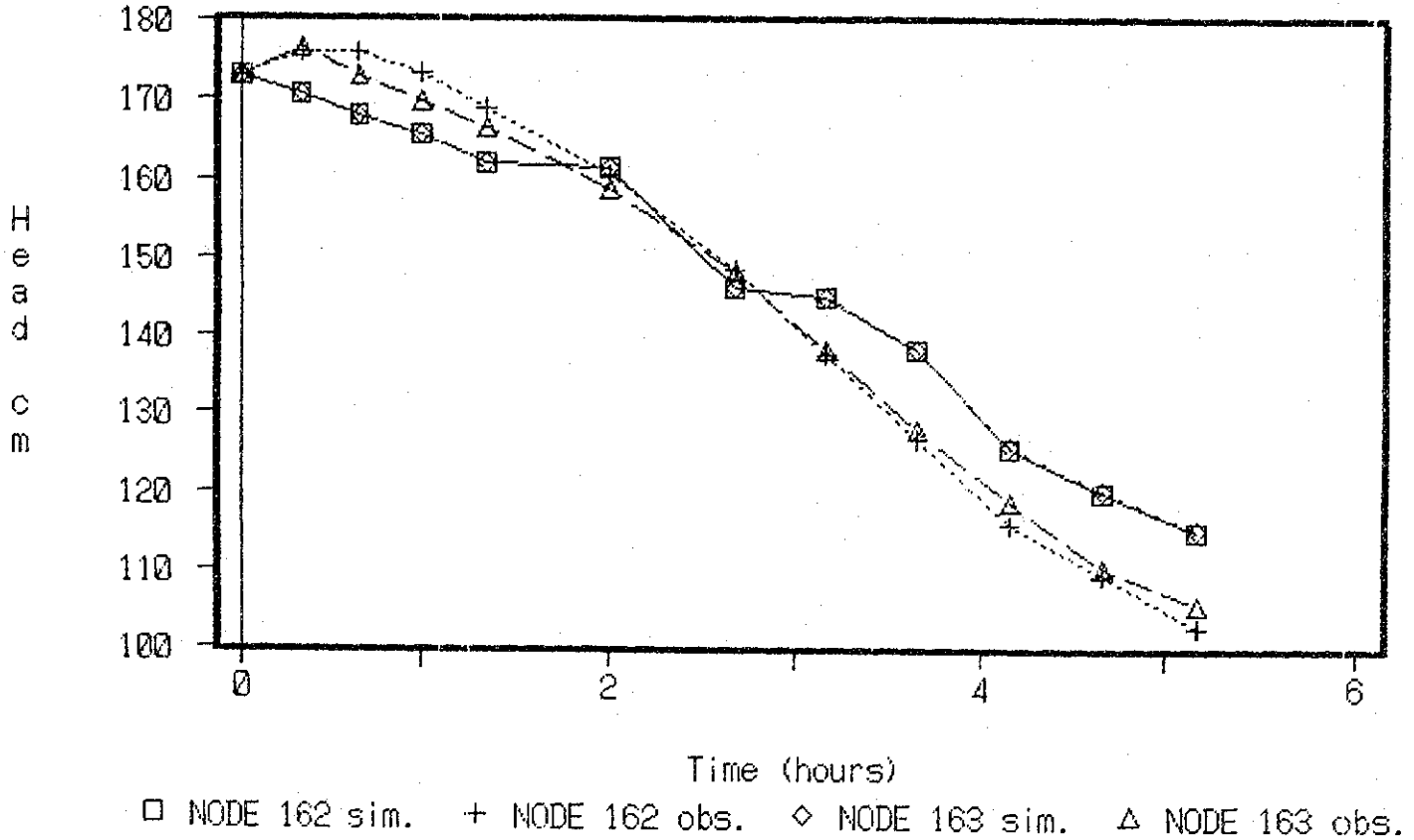


Fig. 4-6 Simulated and Observed Hydraulic Head at Location C

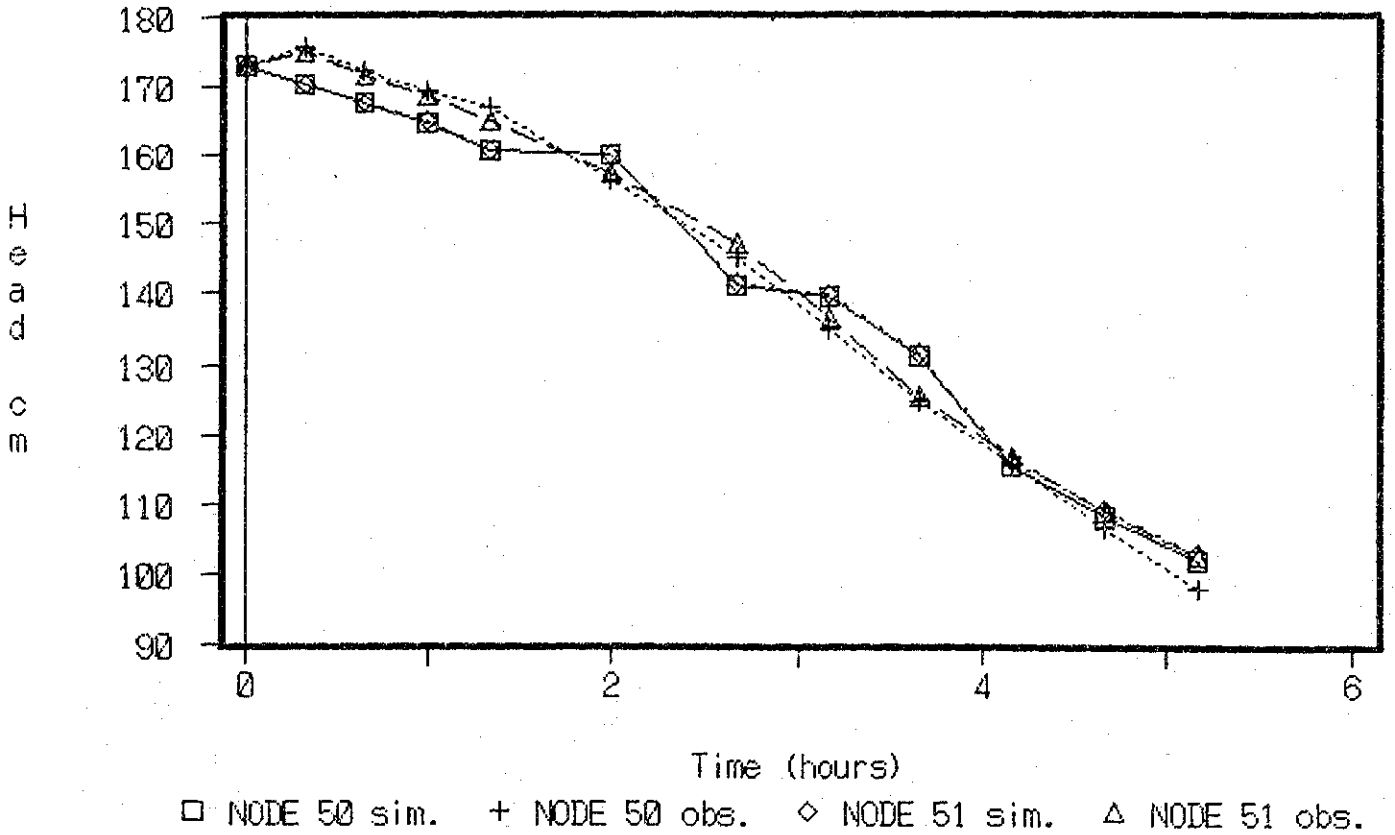
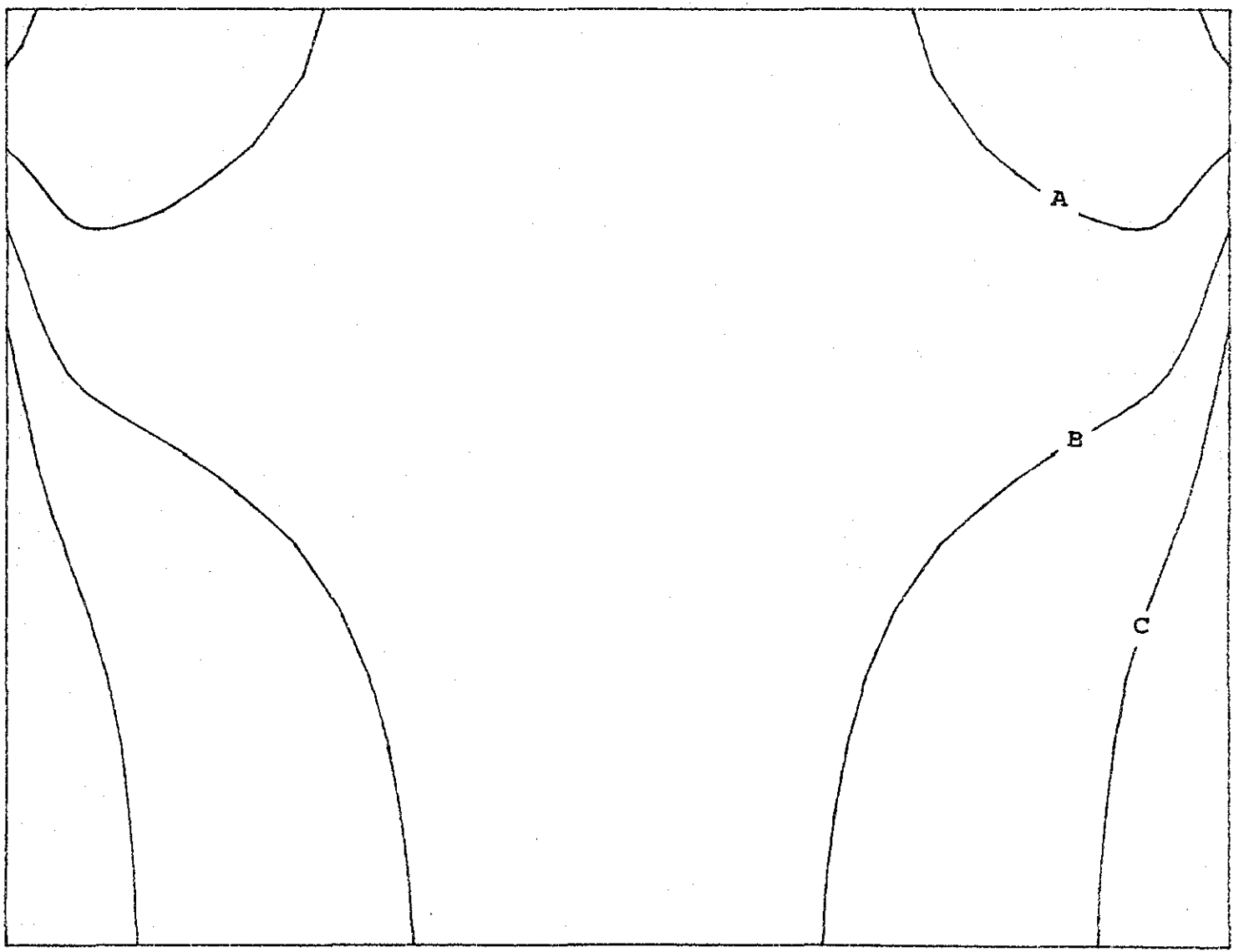
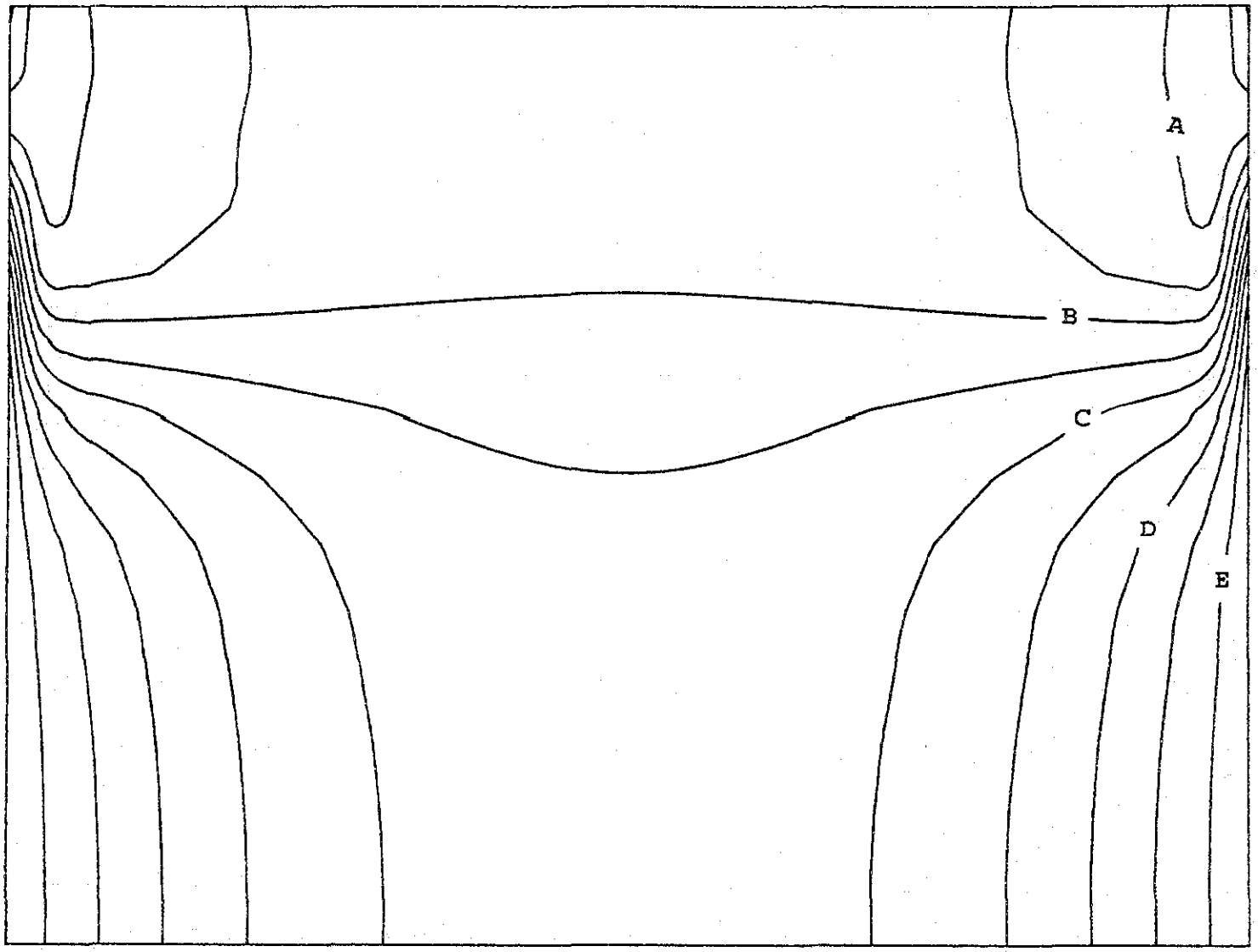


Fig. 4-7 Total Head Distribution after one hour of Pumping



A = 168 cm
B = 166 cm
C = 164 cm

Fig. 4-8 Total Head Distribution after two hours of Pumping



A = 167 cm
B = 165 cm
C = 163 cm
D = 161 cm
E = 159 cm

Fig. 4-9 Total Head Distribution after three hours of Pumping

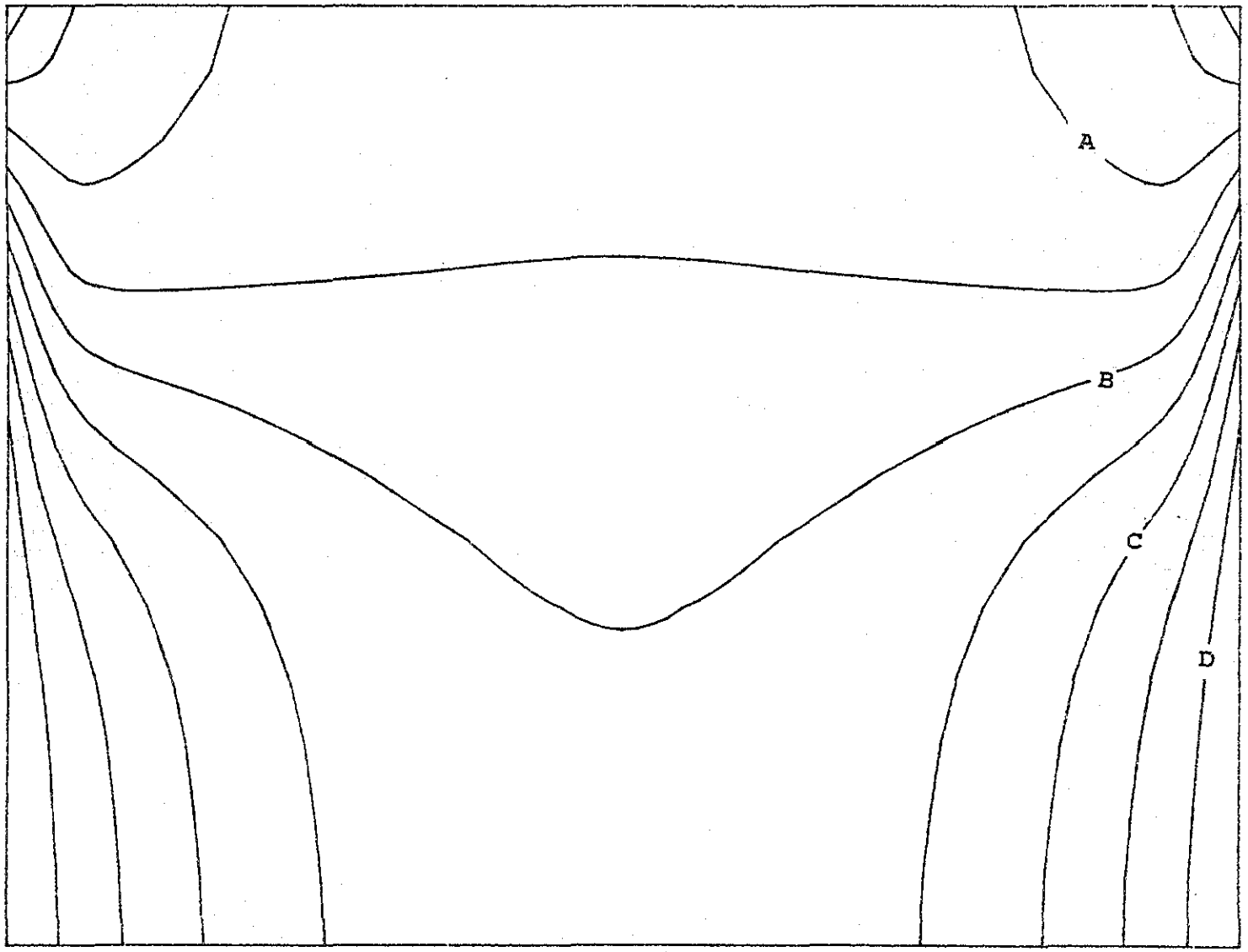
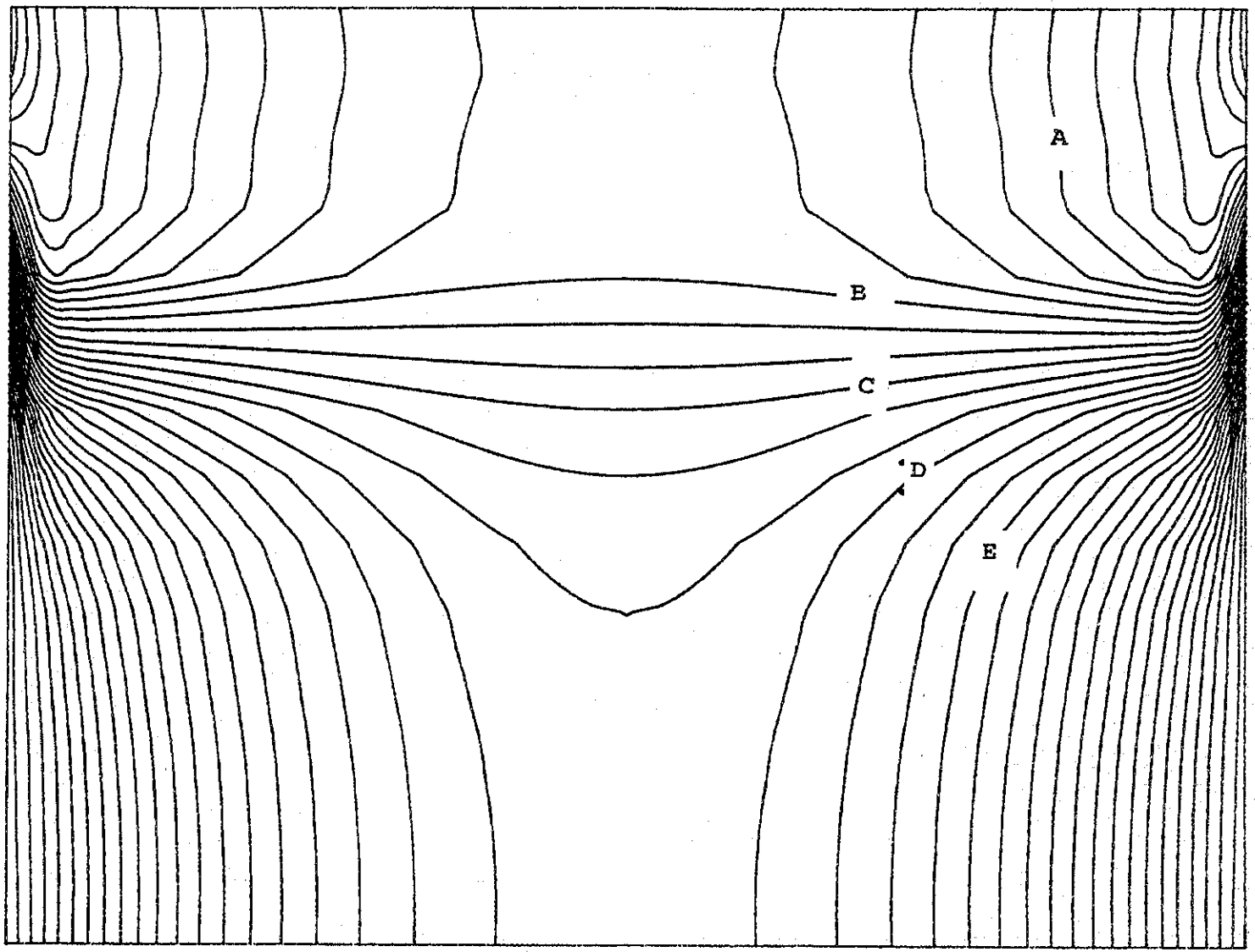
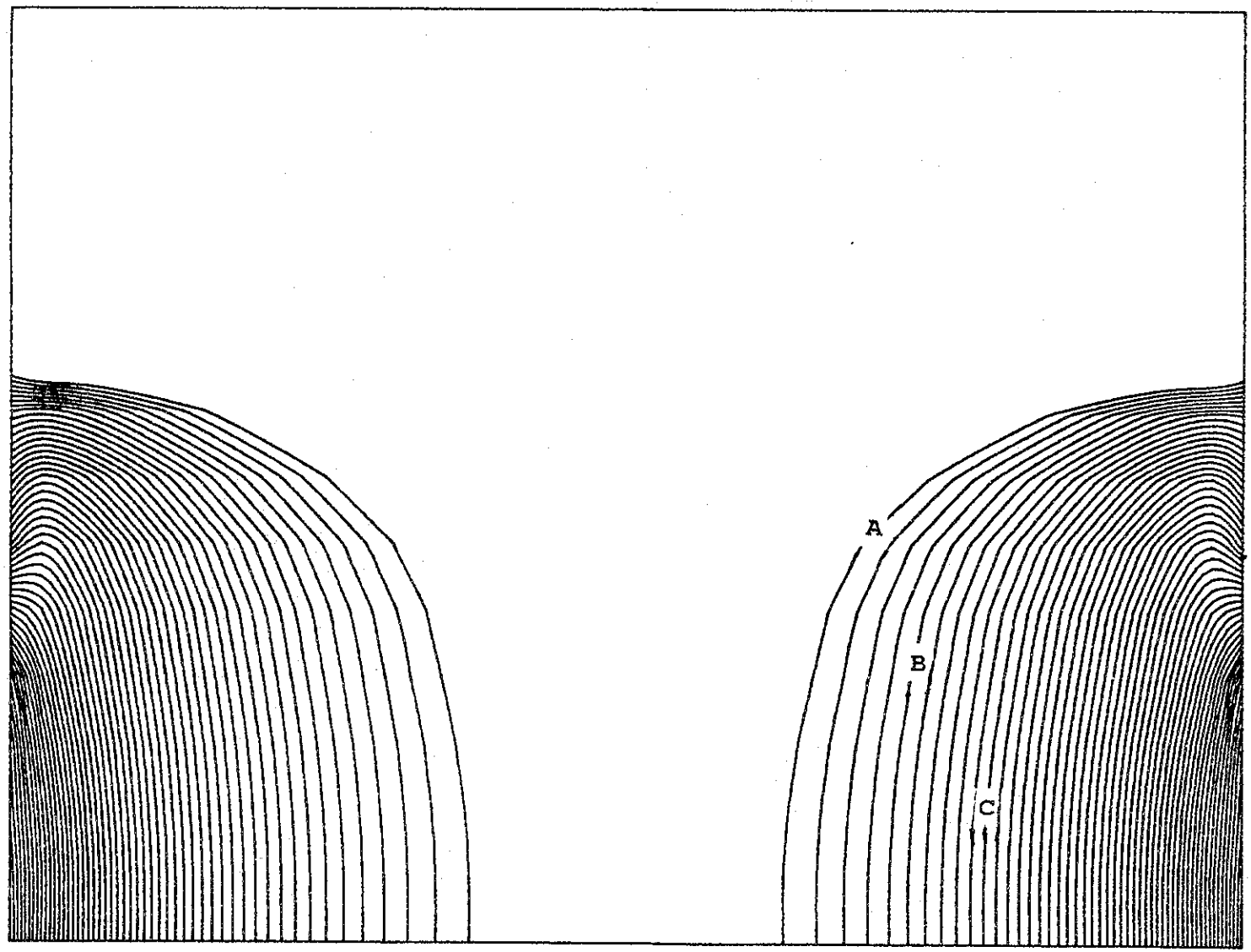


Fig. 4-10 Total Head Distribution after four hours of Pumping



A = 165 cm
B = 150 cm
C = 140 cm
D = 130 cm

Fig. 4-11 Total Head Distribution after five hours of Pumping



A = 134 cm
B = 126 cm
C = 114 cm

4. DATA

Table 3-5 Water Balance of the P1 Paddy Plot

Khok Nai Leaching Test Plot , November '92

Date／Time	Precipitation P mm	Leaching water Q m^3／mm	Input I = P+Q mm	Water ponding Si mm	Water ponding Si-1 mm	△S △S=Si-Si-1 mm	Output O =I-△S mm	Σ O mm	Remarks
1									
2									
3									
4									
5				0					soil sampling
6 10:50	35.1	0 ／ 0	35.1	0	0	0	35.1	35.1	supply started
7 11:35	20.4	88.4 ／ 276.3	296.7	85	0	85	211.7	246.8	
8 10:00	0	171.9 ／ 537.2	537.2	70	85	- 15	552.2	799.0	
9 10:40	29.0	76.7 ／ 239.7	268.7	131	70	61	207.7	1006.7	
10 15:10	15.4	54.2 ／ 169.4	184.8	140	131	9	175.8	1182.5	
11 10:40	3.7	0 ／ 0	3.7	0	140	-140	143.7	1326.2	plowing
12 15:00	96.5	34.3 ／ 107.2	203.7	140	0	140	63.7	1389.9	soil sampling
13 11:30	22.0	0 ／ 0	22.0	133	140	- 7	29.0	1418.9	
14 13:30	0	0 ／ 0	0	68	133	- 65	65.0	1483.9	
15	—	—	—	—	—	—	—	—	
16 10:15	0	95.1 ／ 297.2	297.2	120	68	52	245.2	1729.1	plowing
17 10:50	0	16.0 ／ 50.0	50.0	120	120	0	50.0	1779.1	soil sampling
18 14:00	0	87.9 ／ 274.7	274.7	215	120	95	179.7	1958.8	
19 10:30	16.4	0 ／ 0	16.4	150	215	- 65	48.6	2007.4	
20 10:30	0	0 ／ 0	0	105	150	- 45	45.0	2052.4	
21 11:30	7.0	77.1 ／ 240.9	247.9	225	105	120	127.9	2180.3	
22	—	—	—	—	—	—	—	—	
23	—	—	—	—	—	—	—	—	
24 10:40	6.5	161.4 ／ 504.4	510.9	140	225	- 85	595.9	2776.2	
25	—	—	—	—	—	—	—	—	
26	—	—	—	—	—	—	—	—	
27	—	—	—	—	—	—	—	—	
28	—	—	—	—	—	—	—	—	
29	—	—	—	—	—	—	—	—	
30	—	—	—	—	—	—	—	—	
1/12 15:00	67.0	0 ／ 0	67.0	0	140	- 140	207.0	2983.2	soil sampling

Table 3-6 Water Balance of the P2 Paddy Plot

Khok Nai Leaching Test Plot , November '92

Date／Time	Precipitation P mm	Leaching water Q m^3 ／mm	Input I = P+Q mm	Water ponding Si mm	Water ponding Si-1 mm	△S △S=Si-Si-1 mm	Output 0 =I-△S mm	Σ 0 mm	Remarks
1									
2									
3									
4									
5				0					soil sampling
6 10:50	35.1	0 ／ 0	35.1	0	0	0	35.1	35.1	
7 11:35	20.4	0 ／ 0	20.4	0	0	0	20.4	55.5	
8 10:00	0	0 ／ 0	0	0	0	0	0	55.5	
9 10:40	29.0	0 ／ 0	29.0	0	0	0	29.0	84.5	supply started
10 15:10	15.4	49.6 ／ 155.0	170.4	95	0	95	75.4	159.9	
11 10:40	3.7	13.1 ／ 40.9	44.6	0	95	- 95	139.6	299.5	
12 15:00	96.5	34.7 ／ 108.4	204.9	100	0	100	104.9	404.4	soil sampling
13 11:30	22.0	0 ／ 0	22.0	108	100	8	14.0	418.4	
14 13:30	0	0 ／ 0	0	0	108	-108	108.0	526.4	
15	—	—	—	—	—	—	—	—	
16 10:15	0	—	—	0	—	—	—	—	
17 10:50	0	118.6 ／ 370.6	370.6	175	0	173	197.6	724.0	
18 14:00	0	115.8 ／ 361.9	361.9	187	175	12	349.9	1073.0	
19 11:50	16.4	65.9 ／ 205.9	222.3	125	187	- 62	284.3	1357.3	
20 10:30	0	83.6 ／ 261.3	261.3	125	125	0	261.3	1618.6	
21 11:30	7.0	58.8 ／ 183.8	190.8	150	125	25	165.8	1784.4	
22	—	—	—	—	—	—	—	—	
23	—	—	—	—	—	—	—	—	
24 10:40	6.5	108.7 ／ 339.7	346.2	158	150	8	338.2	2122.6	
25	—	—	—	—	—	—	—	—	
26	—	—	—	—	—	—	—	—	
27	—	—	—	—	—	—	—	—	
28	—	—	—	—	—	—	—	—	
29	—	—	—	—	—	—	—	—	
30	—	—	—	—	—	—	—	—	
1/12 15:00	67.0	160.5 ／ 501.6	568.6	0	158	-158	410.6	2533.2	

Table 3-7 Water Balance of the P3 Paddy Plot

Khok Nai Leaching Test Plot , November '92

Date/Time	Precipitation P mm	Leaching water Q m^3 /mm	Input I = P+Q mm	Water ponding Si mm	Water ponding Si-1 mm	△S △S=Si-Si-1 mm	Output O =I-△S mm	Σ O mm	Remarks
1									
2									
3									
4									
5				0					soil sampling
6 10:50	35.1	0 / 0	35.1	0	0	0	35.1	35.1	
7 11:35	20.4	0 / 0	20.4	0	0	0	20.4	55.5	
8 10:00	0	0 / 0	0	0	0	0	0	55.5	
9 10:40	29.0	0 / 0	29.0	0	0	0	29.0	84.5	
10 15:10	15.4	0 / 0	15.4	0	0	0	15.4	99.9	supply started
11 10:40	3.7	42.6 / 133.1	136.8	0	0	0	136.8	236.7	
12 15:00	96.5	58.0 / 181.3	277.8	70	0	70	207.8	444.5	soil sampling
13 11:30	22.0	4.9 / 15.3	37.3	62	70	- 8	45.3	489.8	
14 13:30	0	0 / 0	0	0	62	- 62	62.0	551.8	
15	—	—	—	—	—	—	—		
16 10:15	0	0 / 0	0	0	0	0	0	551.8	
17 10:50	0	135.5 / 423.4	423.4	145	0	145	278.4	830.2	
18 14:00	0	138.3 / 432.2	432.2	185	145	40	392.2	1222.4	
19 11:50	16.4	86.5 / 270.3	286.7	125	185	- 60	346.7	1569.1	
20 10:30	0	0 / 0	0	100	125	- 25	25.0	1594.1	plowing
21 11:30	7.0	56.9 / 177.8	184.8	145	100	45	139.8	1733.9	soil sampling
22	—	—	—	—	—	—	—	—	
23	—	—	—	—	—	—	—	—	
24 10:40	6.5	163.6 / 511.9	518.4	155	145	10	508.4	2242.3	
25	—	—	—	—	—	—	—	—	
26	—	—	—	—	—	—	—	—	
27	—	—	—	—	—	—	—	—	
28	—	—	—	—	—	—	—	—	
29	—	—	—	—	—	—	—	—	
30	—	—	—	—	—	—	—	—	
1/12 15:00	67.0	185.7 / 580.3	647.3	0	155	- 155	802.3	3044.6	

Table 3-8 Water Balance of the P4 Paddy Plot

Khok Nai Leaching Test Plot , November '92

Date／Time	Precipitation P mm	Leaching water Q m^3 ／mm	Input I = P+Q mm	Water ponding Si mm	Water ponding Si-1 mm	△S △S=Si-Si-1 mm	Output O =I-△S mm	Σ O mm	Remarks
1									
2									
3									
4				0					supply started
5 10:50	13.2	91.8 ／ 382.5	395.7	75	0	75	320.7	320.7	soil sampling
6 10:50	35.1	68.8 ／ 286.7	321.8	194	75	119	167.7	488.4	
7 11:35	20.4	92.3 ／ 384.6	405.0	255	194	61	344.0	832.4	
8 10:00	0	101.9 ／ 424.6	424 6	265	255	10	414.6	1247.0	
9 10:40	29.0	79.5 ／ 33.1	62.1	285	265	20	42.1	1289.1	
10 15:10	15.4	0 ／ 0	15.4	200	285	- 85	100.4	1389.5	
11 10:40	3.7	0 ／ 0	3.7	100	200	-100	103.7	1493.2	
12 15:00	96.5	79.1 ／ 329.6	426.1	220	100	120	306.1	1799.3	soil sampling
13 11:30	22.0	6.4 ／ 26.7	48.7	212	220	- 8	56.7	1856.0	
14 13:30	0	0 ／ 0	0	130	212	- 82	82.0	1938.0	
15	—	—	—	—	—	—	—	—	
16 10:15	0	67.4 — 280.8	280.8	165	130	35	245.8	2183.8	
17 10:50	0	131.3 ／ 547.1	547.1	175	165	10	537.1	2720.9	
18 14:00	0	0 ／ 0	0	125	175	- 50	50.0	2770.9	
19 11:50	16.4	0 ／ 0	16.4	125	125	0	16.4	2787.3	
20 10:30	0	113.8 ／ 474.2	474.2	255	125	130	344.2	3131.5	
21 11:30	7.0	0 ／ 0	7.0	165	255	- 90	97.0	3228.5	
22	—	—	—	—	—	—	—	—	
23	—	—	—	—	—	—	—	—	
24 10:40	6.5	174.2 ／ 725.8	732.3	240	165	75	657.3	3885.8	
25	—	—	—	—	—	—	—		
26	—	—	—	—	—	—	—		
27	—	—	—	—	—	—	—		
28	—	—	—	—	—	—	—		
29	—	—	—	—	—	—	—		
30	—	—	—	—	—	—	—		
1/12 15:00	67.0	0 ／ 0	67.0	0	240	-240	307.0	4192.8	

Table 3-9 Variation of Water Quality with Time

Khok Nai Leaching Test Plot, November '92 Unit of EC : μS/cm

Date	Irrigation Canal		P1		P2		P3		P4		Drainage Canal		Remarks
	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	
1	–	–	–	–	–	–	–	–	–	–	–	–	
2	–	–	–	–	–	–	–	–	–	–	–	–	
3	–	–	–	–	–	–	–	–	–	–	–	–	
4	–	–	–	–	–	–	–	–	–	–	3.3	1,117	
5	–	–	–	–	–	–	–	–	3.9	207	3.1	1,411	
6	–	–	–	–	–	–	–	–	4.5	150	3.7	1,601	
7	4.0	160	3.6	123	–	–	–	–	4.1	160	3.0	1,414	
8	4.6	325	4.3	343	–	–	–	–	4.5	275	3.8	1,380	
9	4.7	275	4.5	303	–	–	–	–	4.5	287	3.8	1,192	
10	5.1	176	4.5	262	4.4	249	–	–	4.5	290	3.8	1,280	
11	4.4	460	–	–	–	–	–	–	4.4	461	3.8	1,237	
12	5.4	146	4.8	223	4.9	132	4.9	162	4.9	232	4.4	990	
13	3.6	338	3.5	194	3.9	129	3.7	141	3.8	196	3.3	816	
14	3.8	355	3.4	285	–	–	–	–	3.7	228	3.2	959	
15	–	–	–	–	–	–	–	–	–	–	–	–	
16	3.6	348	3.4	352	–	–	–	–	3.6	286	3.1	1,129	
17	3.6	540	–	–	–	–	–	–	–	–	3.2	1,030	
18	3.5	557	3.4	569	3.4	576	3.4	585	3.4	373	3.2	1,113	
19	3.8	504	3.7	–	3.8	–	3.8	–	3.9	–	3.4	1,047	
20	3.8	523	3.6	514	3.7	524	3.7	532	3.8	489	3.3	1,092	
21	3.9	569	3.9	564	3.9	565	3.8	513	4.0	430	3.5	539	
22	–	–	–	–	–	–	–	–	–	–	–	–	
23	–	–	–	–	–	–	–	–	–	–	–	–	
24	3.9	517	3.9	498	3.9	505	3.8	513	3.9	477	3.6	1,029	
25	–	–	–	–	–	–	–	–	–	–	–	–	
26	–	–	–	–	–	–	–	–	–	–	–	–	
27	–	–	–	–	–	–	–	–	–	–	–	–	
28	–	–	–	–	–	–	–	–	–	–	–	–	
29	–	–	–	–	–	–	–	–	–	–	–	–	
30	–	–	–	–	–	–	–	–	–	–	–	–	
31													

Table 3-10 Variation of Water Quality with Time

Khok Nai Leaching Test Plot, December '92 Unit of EC : μS/cm

Date	Irrigation Canal		P1		P2		P3		P4		Drainage Canal		Remarks
	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	
1	–	–	–	–	–	–	–	–	–	–	–	–	
2	4.6	630	4.0	645	3.5	542	3.9	590	4.1	589	4.4	1,535	
3	–	–	–	–	–	–	–	–	–	–	–	–	
4	–	–	–	–	–	–	–	–	–	–	–	–	
5	–	–	–	–	–	–	–	–	–	–	–	–	
6	–	–	–	–	–	–	–	–	–	–	–	–	
7	–	–	–	–	–	–	–	–	–	–	–	–	
8	5.5	322	–	–	–	–	–	–	–	–	3.0	669	
9	5.5	547	–	–	–	–	–	–	–	–	3.2	1,293	
10	–	–	–	–	–	–	–	–	–	–	3.1	1,336	
11	3.6	602	–	–	–	–	–	–	–	–	3.2	1,314	
12	3.9	712	–	–	–	–	–	–	–	–	3.7	1,281	
13	4.3	666	–	–	–	–	–	–	–	–	4.0	1,385	
14	3.4	597	–	–	–	–	–	–	–	–	3.1	1,423	
15	3.3	350	–	–	–	–	–	–	–	–	3.1	960	
16	3.4	625	–	–	–	–	–	–	–	–	3.2	1,457	
17	3.8	630	–	–	–	–	–	–	–	–	3.6	1,337	
18	6.5	–	–	–	–	–	–	–	–	–	4.5	–	
19	5.7	47	4.9	167	–	–	5.0	111	5.2	82	4.6	1,113	
20	5.4	40	4.8	123	–	–	5.0	53	4.8	92	4.4	964	
21	5.8	35	4.8	114	4.6	162	4.8	77	5.0	43	4.2	1,216	
22	5.0	60	4.1	88	3.5	187	4.1	67	4.1	45	3.3	1,345	
23	5.0	70	4.5	63	4.4	104	4.5	90	4.7	45	4.0	1,015	
24	5.3	77	4.9	96	5.4	44	5.1	53	5.2	48	4.4	816	
25	5.3	111	5.0	109	5.1	85	5.1	79	5.3	53	4.4	1,108	
26	5.3	138	–	–	–	–	–	–	–	–	4.5	947	
27	4.2	475	4.8	84	4.6	80	4.6	68	4.8	49	3.9	977	
28	3.3	357	3.5	101	3.5	98	3.5	84	3.7	62	3.0	1,008	
29	4.4	321	4.5	120	4.5	139	4.5	138	4.6	143	4.1	1,111	
30	4.2	294	4.1	96	4.1	154	4.2	117	4.3	126	3.8	1,176	
31	–	–	–	–	–	–	–	–	–	–	–	–	

Table 3-11 Variation of Water Quality with Time

Khok Nai Leaching Test Plot, January '93 Unit of EC : μS/cm

Date	Irrigation Canal		P1		P2		P3		P4		Drainage Canal		Remarks
	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	
1	4.4	333	4.5	22	–	–	4.5	13	4.6	138	4.1	1,206	
2	3.9	392	4.4	25	–	–	4.5	17	4.5	140	3.6	1,291	
3	4.7	420	4.7	212	–	–	–	–	4.7	210	4.4	1,308	
4	4.7	444	4.8	222	–	–	–	–	5.0	169	4.4	1,347	
5	4.2	433	4.3	203	–	–	–	–	4.4	152	4.0	1,351	
6	4.0	469	4.2	22	–	–	–	–	4.4	167	3.8	1,388	
7	–	–	–	–	–	–	–	–	–	–	–	–	
8	4.6	1,385	4.2	200	–	–	–	–	4.3	160	3.8	624	
9	4.2	74	3.7	288	–	–	–	–	3.9	145	3.2	1,382	
10	5.1	43	4.2	329	–	–	–	–	4.4	228	3.9	1,319	
11	5.5	29	–	–	–	–	–	–	–	–	3.8	1,350	
12	4.7	25	3.4	22	–	–	3.5	100	3.5	77	3.1	1,214	
13	5.6	26	3.9	251	–	–	4.3	80	4.2	70	3.7	1,324	
14	5.1	37	5.2	50	–	–	4.6	37	5.2	320	3.6	588	
15	4.7	47	4.4	58	–	–	4.5	38	4.6	5	3.6	1,066	
16	5.2	41	4.2	73	–	–	4.6	47	4.4	43	3.7	1,100	
17	5.2	28	3.7	95	3.7	97	4.1	70	4.0	47	3.2	1,035	
18	5.7	45	4.2	94	4.2	36	4.4	37	4.1	58	3.6	616	
19	4.6	108	4.5	109	4.5	43	4.4	53	4.2	74	3.7	519	
20	5.5	39	4.3	135	5.0	611	5.1	54	4.5	94	4.6	1,068	
21	5.9	30	4.4	122	5.6	5	4.6	66	4.8	43	4.1	1,025	
22	5.8	38	4.6	117	5.9	0.0	4.8	4	4.9	49	4.6	1,228	
23	5.5	47	4.9	129	5.6	46	4.9	97	5.1	112	4.1	1,062	
24	6.0	28	4.9	1	5.4	1	–	–	5.22	2	4.1	1,114	
25	6.6	29	4.5	140	5.7	30	4.6	100	4.9	46	4.1	1,229	
26	6.1	29	4.6	63	–	–	4.8	43	4.8	50	4.0	1,266	
27	5.8	30	4.2	98	4.1	6	4.4	61	4.9	2	3.7	1,494	
28	6.0	31	4.4	116	5.2	73	4.5	78	5.6	43	3.9	1,048	
29	5.2	45	4.1	128	4.2	60	4.4	33	4.5	101	3.4	1,600	
30	5.5	–	3.6	–	3.9	–	3.8	–	4.2	–	3.2	1,431	
31	5.6	45	4.64	100	3.96	36	4.0	11.3	4.3	97	9.9	730	

Table 3-12 Variation of Water Quality with Time

Khok Nai Leaching Test Plot, February '93 Unit of EC : μS/cm

Date	Irrigation Canal		P1		P2		P3		P4		Drainage Canal		Remarks
	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	
1	5.5	97	3.7	121	4.0	102	4.1	105	4.4	99	3.4	287	
2	4.9	48	3.9	415	4.0	76	3.9	39	4.2	102	3.4	1,302	
3	4.7	59	3.9	231	4.2	99	4.2	106	4.2	98	3.6	778	
4	4.8	101	4.0	226	4.2	106	4.3	122	4.5	110	3.6	744	
5	4.5	85	3.9	462	4.2	137	4.3	100	4.4	70	3.6	794	
6	—	—	—	—	—	—	—	—	—	—	—	—	
7	—	—	—	—	—	—	—	—	—	—	—	—	
8	5.2	60	4.0	382	—	—	4.2	129	4.4	81	3.5	844	
9	5.6	38	4.2	396	—	—	4.4	175	4.6	109	3.7	1,580	
10	6.3	28	5.5	46	—	—	—	—	5.6	37	4.1	1,561	
11	4.6	92	4.2	40	5.1	5	5.3	64	4.6	44	3.7	1,698	
12	4.4	185	4.2	226	4.5	108	4.1	75	4.6	65	3.7	1,619	
13	—	—	—	—	—	—	—	—	—	—	—	—	
14	—	—	—	—	—	—	—	—	—	—	—	—	
15	4.4	405	4.3	247	—	—	4.4	135	5.1	113	3.9	1,581	
16	4.2	394	4.7	289	4.1	206	4.0	134	4.7	198	3.4	1,781	
17	4.2	432	4.0	299	—	—	—	—	5.1	197	3.5	1,912	
18	4.5	95	4.0	142	4.2	98	4.1	128	4.1	192	3.5	1,677	
19	5.9	369	4.6	116	4.6	65	5.3	37	4.6	88	3.9	1,718	
20	—	—	—	—	—	—	—	—	—	—	—	—	
21	—	—	—	—	—	—	—	—	—	—	—	—	
22	5.2	38	3.8	171	4.0	101	3.8	75	3.9	121	3.1	1,968	
23	5.2	0	2.8	172	2.7	172	2.9	92	4.0	9	1.5	1,724	
24	5.3	44	3.1	164	3.2	156	3.6	70	3.5	56	2.5	1,986	
25	5.2	51	3.5	3	3.3	98	3.6	76	3.8	76	2.3	891	
26	5.4	41	4.2	71	2.9	183	3.5	84	4.2	73	2.3	1,429	
27	—	—	—	—	—	—	—	—	—	—	—	—	
28	—	—	—	—	—	—	—	—	—	—	—	—	
29													
30													
31													

Table 3-13 Variation of Water Quality with Time

Khok Nai Leaching Test Plot, March '93 Unit of EC : μS/cm

Date	Irrigation Canal		P1		P2		P3		P4		Drainage Canal		Remarks
	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	
1	5.65	40.9	—	—	3.16	153	4.22	59.6	3.84	0.0	2.27	1,565	
2	6.08	37.4	3.2	55.1	3.2	57.2	3.69	64.8	3.46	39	2.92	1,582	
3	5.54	68.5	4.8	67.3	5.05	53.6	4.78	36.8	5.07	36	3.62	1,534	
4	4.85	56.4	3.58	72.4	4.01	64.9	3.91	57.1	4.23	65	2.76	1,539	
5	5.46	52.7	4.28	120	4.0	263	4.07	168	4.11	155	3.46	659	
6	—	—	—	—	—	—	—	—	—	—	—	—	
7	—	—	—	—	—	—	—	—	—	—	—	—	
8	3.95	923	4.61	239	4.22	355	4.16	269	4.52	168	3.78	959	
9	4.49	422	3.94	327	—	—	—	—	4.45	174	3.45	1,249	
10	3.76	411	3.70	540	—	—	3.73	412	—	—	3.14	1,187	
11	4.62	182	3.91	270	—	—	3.72	376	4.07	217	3.38	1,281	
12	3.42	830	3.75	293	—	—	3.95	173.8	4.61	158	3.18	1,419	
13	—	—	—	—	—	—	—	—	—	—	—	—	
14	—	—	—	—	—	—	—	—	—	—	—	—	
15	4.19	236	3.81	280	3.77	356	3.97	158	4.14	133	3.68	868	
16	4.11	309	3.81	150	3.94	166	3.95	139	4.14	109	3.58	1,068	
17	3.53	362	3.43	180	3.52	172	3.58	140	3.69	99	3.11	997	
18	3.97	336	3.91	204	3.93	219	3.94	168	4.08	156	3.53	1,158	
19	3.55	495	—	—	2.95	168	3.14	182	3.02	173	2.73	1,105	
20	—	—	—	—	—	—	—	—	—	—	—	—	
21	—	—	—	—	—	—	—	—	—	—	—	—	
22	3.45	370	3.45	225	3.56	237	3.55	195	3.80	154	3.20	1,279	
23	3.66	447	3.56	272	3.73	206	3.67	196	3.79	201	3.23	1,254	
24	2.94	466	2.67	263	—	—	2.88	210	2.92	102	2.70	1,236	
25	3.14	461	—	—	2.93	227	2.64	241	2.90	138	2.60	1,179	
26	3.89	477	3.16	387	2.90	298	3.93	217	3.54	256	3.40	910	
27	—	—	—	—	—	—	—	—	—	—	—	—	
28	—	—	—	—	—	—	—	—	—	—	—	—	
29	3.94	469	3.64	483			3.92	338	3.97	298	3.45	1,429	
30													
31													

Table 3-14 Variation of Water Quality with Time

Khok Nai Leaching Test Plot, April '93

Unit of EC : μS/cm

Date	Irrigation Canal		P1		P2		P3		P4		Drainage Canal		Remarks
	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	
1	3.8	468							4.0	440	3.4	1,295	
2	3.8	513									3.3	1,465	
3	—	—	—	—	—	—	—	—	—	—	—	—	
4	—	—	—	—	—	—	—	—	—	—	—	—	
5	3.8	524									3.3	1,508	
6	4.3	526									3.7	1,522	
7	3.8	514									3.3	1,507	
8	3.8	510									3.3	1,533	
9	4.0	526									3.3	1,534	
10	—	—	—	—	—	—	—	—	—	—	—	—	
11	—	—	—	—	—	—	—	—	—	—	—	—	
12	4.3	423									3.6	1,517	
13	4.1	425									3.4	1,540	
14	4.5	190	4.2	408	4.18	322	4.19	358	4.35	209	3.9	688	
15	4.4	187	430	295	4.25	281	4.22	293	4.39	195	3.9	1,340	
16	4.2	379	4.0	309	4.0	397	4.1	265	4.2	221	3.8	1,298	
17	—	—	—	—	—	—	—	—	—	—	—	—	
18	—	—	—	—	—	—	—	—	—	—	—	—	
19	3.7	497			3.6	272			3.7	233	3.3	760	
20	3.4	465							3.3	209	2.9	1,449	
21	4.1	507									3.7	773	
22	4.1	509									3.7	745	
23	3.9	511									3.6	745	
24	4.2	528									3.7	755	
25	—	—	—	—	—	—	—	—	—	—	—	—	
26	—	—	—	—	—	—	—	—	—	—	—	—	
27	4.2	535									3.7	750	
28	4.1	527									3.6	1,470	
29	4.3	577									3.8	1,600	
30	4.4	163									3.9	1,655	
31													

Table 3-15 Variation of Water Quality with Time

Khok Nai Leaching Test Plot, May '93 Unit of EC : μS/cm

Date	Irrigation Canal		P1		P2		P3		P4		Drainage Canal		Remarks
	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	
1	–	–	–	–	–	–	–	–	–	–	–	–	
2	–	–	–	–	–	–	–	–	–	–	–	–	
3	3.9	563									3.4	1,656	
4	4.0	297									3.6	1,853	
5	4.1	322									3.5	1,020	
6	4.1	304									3.5	861	
7	4.0	317									3.5	414	
8	–	–	–	–	–	–	–	–	–	–	–	–	
9	–	–	–	–	–	–	–	–	–	–	–	–	
10	5.0	135									3.5	1,995	
11	6.2	83			4.0	69	4.1	88			3.6	1,695	
12	5.0	54	–	–	4.0	165	4.1	96	4.1	77	3.6	1,706	
13	6.2	37	4.1	7	4.4	36	5.0	3	4.3	111	3.5	831	
14	6.5	78	4.2	44	4.3	7	–	–	4.3	34	3.5	1,743	
15	–	–	–	–	–	–	–	–	–	–	–	–	
16	–	–	–	–	–	–	–	–	–	–	–	–	
17	6.4	56									3.5	1,993	
18	5.3	75	–	–	3.9	127	3.8	100	3.9	72	3.3	722	
19	5.1	160	3.9	271	–	–	–	–	4.3	95	3.5	1,647	
20	4.4	214	3.8	339					4.1	142	3.4	1,724	
21	4.4	256	4.0	190	3.8	161	3.8	125	3.9	123	3.3	1,728	
22	–	–	–	–	–	–	–	–	–	–	–	–	
23	–	–	–	–	–	–	–	–	–	–	–	–	
24	5.4	131	–	–	4.1	128	4.1	128	4.2	106	3.4	1,328	
25	5.8	134	4.0	155	–	–	–	–	4.0	100	3.0	1,685	
26	6.7	51	4.1	88	–	–	3.8	77	3.9	53	3.0	1,737	
27	6.0	44	3.5	93	3.5	88	3.6	72	3.7	64	3.2	1,522	
28	6.7	42	–	–	3.1	52	3.1	59	3.3	48	3.2	1,470	
29	–	–	–	–	–	–	–	–	–	–	–	–	
30	–	–	–	–	–	–	–	–	–	–	–	–	
31	6.3	34	3.6	103	3.7	38	3.8	36	3.8	12	3.4	711	

Table 3-16 Variation of Water Quality with Time

Khok Nai Leaching Test Plot, June '93 Unit of EC : μS/cm

Date	Irrigation Canal		P1		P2		P3		P4		Drainage Canal		Remarks
	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	
1	6.3	29	4.5	57	4.2	42	4.1	4	4.2	2	3.4	505	
2	6.3	38	4.1	60	4.1	39	3.9	61	5.5	2	3.6	602	
3	6.4	32	4.1		4.0		4.0		4.2		3.3	445	
4	6.5	32	—	—	4.7	34	—	—	4.7	8	3.6	659	
5	—	—	—	—	—	—	—	—	—	—	—	—	
6	—	—	—	—	—	—	—	—	—	—	—	—	
7	5.3	109	3.8	145	3.9	62	3.9	78	4.4	46	3.9	874	
8	6.0	134	3.8	140	3.8	75	3.8	87	3.9	62	3.6	879	
9	6.1	133	3.7	156	3.7	72	3.7	87	3.8	82	3.5	889	
10	6.2	129	—	—	4.1	116	3.8	122	—	—	3.6	878	
11	5.7	117	3.8	162	3.6	128	3.6	142	3.7	100	3.4	1,002	
12	—	—	—	—	—	—	—	—	—	—	—	—	
13	—	—	—	—	—	—	—	—	—	—	—	—	
14	5.5	151	3.7	121	3.8	65	3.7	72	4.2	62	3.3	1,179	
15	5.5	87	3.7	127	3.9	81	—	—	4.0	89	3.5	1,216	
16	5.5	163	—	—	3.8	99	3.6	183	4.0	82	3.4	1,240	
17	5.5	162	3.5	304	—	—	3.7	210	4.0	117	3.4	1,220	
18	5.0	69	3.8	112	3.9	92	3.8	86	4.2	67	3.4	1,329	
19	—	—	—	—	—	—	—	—	—	—	—	—	
20	—	—	—	—	—	—	—	—	—	—	—	—	
21	4.9	153	3.7	177	—	—	3.7	126	3.8	86	3.4	624	
22	4.0	169	—	—	—	—	3.7	118	3.8	88	3.3	1,164	
23	5.0	245	—	—	—	—	3.9	152	4.0	128	3.5	775	
24	5.0	224	3.8	124	—	—	3.7	108	3.9	124	3.7	372	
25	6.7	76	4.5	106	4.4	76	—	—	4.4	66	3.6	642	
26	—	—	—	—	—	—	—	—	—	—	—	—	
27	—	—	—	—	—	—	—	—	—	—	—	—	
28	6.3	69	—	—	—	—	4.3	97	4.7	70.0	3.4	825	
29	6.1	73	3.9	114	4.2	57	4.2	53	4.3	57	3.8	508	
30	6.4	76	4.1	116	4.1	91	4.1	68	4.3	64	3.7	573	
31													

Table 3-17 Variation of Water Quality with Time

Khok Nai Leaching Test Plot, July '93 Unit of EC : μS/cm

Date	Irrigation Canal		P1		P2		P3		P4		Drainage Canal		Remarks
	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	
1	6.3	89	4.0	194	—	—	4.2	102	4.3	81	4.0	287	
2	5.9	52	3.7	206	—	—	3.9	130	4.1	89	3.5	639	
3	—	—	—	—	—	—	—	—	—	—	—	—	
4	—	—	—	—	—	—	—	—	—	—	—	—	
5	4.6	85	—	—	3.9	88	3.9	91	4.1	65	3.9	143	
6	4.9	132	—	—	—	—	—	—	4.4	66	3.7	335	
7	5.2	143	3.5	234	—	—	3.6	129	4.0	88	3.4	767	
8	5.4	94	4.3	104	4.3	61	4.2	84	4.3	63	3.6	579	
9	5.6	62	—	—	—	—	—	—	—	—	3.6	563	
10	—	—	—	—	—	—	—	—	—	—	—	—	
11	—	—	—	—	—	—	—	—	—	—	—	—	
12	5.0	60	4.1	335	4.0	148	3.9	269	4.1	84	3.5	547	
13	5.1	115	4.0	116	4.1	57	4.1	43	4.1	40	3.9	101	
14	5.1	32	3.7	185	4.4	28	3.8	90	4.0	57	3.4	253	
15	5.3	34	3.6	97	4.5	79	4.3	55	4.4	72	3.8	339	
16	5.0	57	3.8	102	4.5	81	4.2	49	4.5	67	3.9	357	
17	—	—	—	—	—	—	—	—	—	—	—	—	
18	—	—	—	—	—	—	—	—	—	—	—	—	
19	4.8	46	5.0	165	4.3	108	4.0	106	4.3	79	3.3	421	
20	5.1	52	3.8	137	3.9	31	3.8	99	4.1	67	3.4	535	
21	4.7	50	3.7	99	3.8	104	3.8	17	4.0	81	3.2	512	
22	4.3	98	3.7	171	4.0	79	3.9	115	4.2	69	3.2	580	
23	4.4	98	3.7	243	4.0	131	3.9	140	4.1	96	3.5	639	
24	—	—	—	—	—	—	—	—	—	—	—	—	
25	—	—	—	—	—	—	—	—	—	—	—	—	
26	4.3	128	3.7	193	3.9	948	4.0	128	4.1	97	3.2	649	
27	5.0	167	3.6	192	3.8	120	3.8	128	4.0	110	3.2	739	
28	5.0	62	3.8	180	3.8	167	3.9	177	4.1	97	3.3	866	
29	4.6	74	3.7	183	3.8	118	3.8	152	3.9	112	3.2	678	
30	4.5	58	3.7	213	3.8	151	3.8	135	4.0	143	3.1	688	
31	—	—	—	—	—	—	—	—	—	—	—	—	

Table 3-18 Variation of Water Quality with Time

Khok Nai Leaching Test Plot, August '93

Unit of EC : μS/cm

Date	Irrigation Canal		P1		P2		P3		P4		Drainage Canal		Remarks
	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	PH	EC	
1	–	–	–	–	–	–	–	–	–	–	–	–	
2	4.45	124	3.59	204	3.75	156	3.62	123	3.95	129.6	3.16	124.2	
3	4.08	81	3.68	165	3.78	121.9	3.73	226	4.02	121.6	3.15	684	
4	3.93	250	5.85	219	3.90	131.3	3.81	158.8	4.10	135.7	3.17	805	
5	4.02	144	3.60	202	3.81	121.9	3.78	157.4	3.92	122.2	3.19	699	
6	3.74	192	3.65	218	3.91	109.4	3.85	251.9	4.01	130.7	3.21	712	
7	–	–	–	–	–	–	–	–	–	–	–	–	
8	–	–	–	–	–	–	–	–	–	–	–	–	
9	3.73	100	3.49	157	3.81	117.3	3.73	193.4	4.98	111.2	3.69	712	
10	3.80	911	3.31	121	3.74	79.7	3.61	191.3	3.89	99.5	3.88	720	
11	3.71	858	3.81	111	3.72	78.9	3.58	188.4	3.82	101.3	3.85	615	
12	3.65	881	3.70	113	3.79	89.7	3.63	187.2	3.89	95.8	3.91	637	
13	3.54	856	3.65	112	3.71	85.8	–	–	3.85	91.9	3.87	710	
14	–	–	–	–	–	–	–	–	–	–	–	–	
15	–	–	–	–	–	–	–	–	–	–	–	–	
16	3.95	132	3.71	103	–	–	–	–	–	–	3.41	810	
17	3.97	145	3.63	113	–	–	–	–	–	–	3.40	784	
18	3.98	100	3.54	105	–	–	–	–	–	–	3.49	544	
19	3.97	101	–	–	–	–	–	–	–	–	3.47	441	
20	3.98	98	–	–	–	–	–	–	–	–	3.41	513	
21	–	–	–	–	–	–	–	–	–	–	–	–	
22	–	–	–	–	–	–	–	–	–	–	–	–	
23	4.25	168	–	–	–	–	–	–	–	–	3.19	970	
24	–	–	–	–	–	–	–	–	–	–	–	–	
25	4.22	200	–	–	–	–	–	–	–	–	3.29	895	
26	4.20	166	–	–	–	–	–	–	–	–	3.31	957	
27	4.18	203	–	–	–	–	–	–	–	–	3.28	1,028	
28	–	–	–	–	–	–	–	–	–	–	–	–	
29	–	–	–	–	–	–	–	–	–	–	–	–	
30	4.09	195	–	–	–	–	–	–	–	–	3.16	954	
31	4.45	195	–	–	–	–	–	–	–	–	3.47	1,015	

Table 3-19 Piezometric Head Variation in the Tree Crop Field in relation to Canal Stage

Khok Nai Leaching Test Plot , November '92 Positions of Strainers : z=0.380m

Date	T 1 Total Head P. No.1	T 2 Total Head P. No.2	T 3 Total Head P. No.3	Canal Stage	Remarks
1	–	–	–	1.13	
2	–	–	–	–	
3	0.83	0.95	0.64	0.98	
4	0.865	0.80	0.87	0.795	
5	0.72	0.635	0.776	0.50	
6	0.75	0.60	0.71	0.55	
7	0.70	0.64	0.705	0.64	
8	0.745	0.72	0.715	0.73	
9	0.79	0.805	0.83	0.79	
10	0.83	0.805	0.90	0.80	
11	0.81	0.68	0.77	0.67	
12	0.795	1.12	1.13	1.17	
13	1.35	1.305	1.33	1.30	
14	1.25	1.19	1.23	1.18	
15	–	–	–	–	
16	1.23	1.25	1.293	1.29	
17	1.295	1.27	1.305	1.29	
18	–	–	–	1.36	
19	1.44	1.395	1.41	1.395	
20	1.445	1.41	1.43	1.405	
21	1.44	1.445	1.459	1.404	
22	–	–	–	–	
23	–	–	–	–	
24	1.46	1.435	1.465	1.48	
25	–	–	–	–	
26	–	–	–	–	
27	–	–	–	–	
28	–	–	–	–	
29	–	–	–	–	
30	–	–	–	–	
31					

Table 3-20 Piezometric Head Variation in the Tree Crop Field in relation to Canal Stage

Khok Nai Leaching Test Plot , December '92 Positions of Strainers : z=0.380m

Date	T 1 Total Head P. No.1	T 2 Total Head P. No.2	T 3 Total Head P. No.3	Canal Stage	Remarks
1	–	–	–	1.095	
2	1.09	1.035	1.115	1.025	
3	–	–	–	–	
4	–	–	–	–	
5	–	–	–	–	
6	–	–	–	–	
7	–	–	–	–	
8	1.385	1.36	1.39	1.34	
9	1.45	1.40	1.405	1.42	
10	1.465	1.402	1.455	1.44	
11	1.506	1.395	1.505	1.47	
12	1.52	1.48	1.51	1.47	
13	1.52	1.48	1.512	1.47	
14	1.52	1.475	1.512	1.47	
15	1.492	1.44	1.49	1.48	
16	1.478	1.44	1.475	1.48	
17	1.185	1.135	1.18	1.12	
18	1.035	0.99	1.015	0.99	
19	1.005	0.88	0.90	0.87	
20	1.055	1.023	1.035	1.03	
21	1.075	1.03	1.16	1.14	
22	1.215	1.185	1.235	1.19	
23	1.166	1.16	1.155	1.17	
24	1.165	1.15	1.15	1.18	
25	1.215	1.205	1.19	1.24	
26	–	–	–	1.47	
27	–	–	–	1.45	
28	1.446	1.475	1.515	1.48	
29	1.525	1.495	1.54	1.51	
30	1.52	1.48	1.503	1.49	
31	1.44	1.45	1.43	1.40	

Table 3-21 Piezometric Head Variation in the Tree Crop Field in relation to Canal Stage

Khok Nai Leaching Test Plot , January '93

Positions of Strainers : z=0.380m

Date	T 1	T 2	T 3	Canal Stage	Remarks
	Total Head P. No.1	Total Head P. No.2	Total Head P. No.3		
1	1.36	1.21	1.215	1.21	
2	1.18	1.13	1.165	1.15	
3	1.085	1.06	1.08	1.06	
4	1.185	1.165	1.18	1.16	
5	1.215	1.25	1.275	1.25	
6	1.325	1.30	1.315	1.30	
7	1.35	1.34	1.365	1.34	
8	—	—	—	1.32	
9	1.335	1.30	1.35	1.30	
10	1.26	1.215	1.577	1.26	
11	1.152	1.12	1.155	1.12	
12	1.09	1.06	1.08	1.07	
13	1.025	1.003	1.345	1.06	
14	1.08	1.08	1.095	1.09	
15	1.03	0.99	1.06	0.95	
16	0.975	0.94	0.97	0.95	
17	0.96	0.93	0.915	0.92	
18	0.92	0.915	0.90	0.92	
19	0.92	0.92	0.99	0.93	
20	1.04	1.04	1.075	1.05	
21	1.06	1.04	1.055	1.05	
22	1.06	1.11	1.15	1.04	
23	1.07	1.06	1.13	1.07	
24	1.07	1.01	1.055	1.04	
25	1.99	0.935	0.98	0.96	
26	0.94	0.91	0.915	0.91	
27	1.01	0.98	1.01	0.98	
28	1.045	1.05	1.08	1.05	
29	—	—	—	—	
30	1.075	1.06	1.09	1.06	
31	1.13	1.075	1.135	1.10	

Table 3-22 Piezometric Head Variation in the Tree Crop Field in relation to Canal Stage

Khok Nai Leaching Test Plot , February '93 Positions of Strainers : z=0.380m

Date	T 1 Total Head P. No.1	T 2 Total Head P. No.2	T 3 Total Head P. No.3	Canal Stage	Remarks
1	1.08	1.16	1.15	1.17	
2	1.23	1.2	1.225	1.25	
3	1.295	1.215	1.205	1.28	
4	1.27	1.3	1.295	1.30	
5	1.35	1.305	1.35	1.30	
6	—	—	—	—	
7	—	—	—	—	
8	1.395	1.36	1.4	1.37	
9	1.4	1.37	1.4	1.37	
10	1.0	0.97	1.0	0.95	
11	1.06	1.03	1.06	1.035	
12	1.07	1.09	1.13	1.10	
13	—	—	—	—	
14	—	—	—	—	
15	1.17	1.135	1.16	1.13	
16	1.155	1.07	1.18	1.06	
17	1.13	1.08	1.11	1.075	
18	1.055	0.99	1.06	0.96	
19	1.045	1.005	1.04	1.00	
20	—	—	—	—	
21	—	—	—	—	
22	1.18	1.08	1.11	1.08	
23	0.975	0.96	0.99	0.955	
24	1.03	0.99	1.015	0.98	
25	1.05	0.995	1.0	1.005	
26	1.055	1.035	1.07	1.04	
27	—	—	—	—	
28	—	—	—	—	
29					
30					
31					

Table 3-23 Piezometric Head Variation in the Tree Crop Field in relation to Canal Stage

Khok Nai Leaching Test Plot , March '93

Positions of Strainers : z=0.380m

Date	T 1	T 2	T 3	Canal Stage	Remarks
	Total Head P. No.1	Total Head P. No.2	Total Head P. No.3		
1	1.17	1.21	1.25	1.20	
2	1.24	1.22	1.24	1.21	
3	1.28	1.21	1.25	1.21	
4	1.28	1.13	1.18	1.14	
5	1.25	1.05	1.07	1.05	
6	–	–	–	–	
7	–	–	–	–	
8	1.06	1.02	1.08	1.03	
9	1.09	1.06	1.08	1.05	
10	1.11	1.08	1.08	1.06	
11	1.14	1.10	1.09	1.06	
12	1.11	1.06	1.11	1.05	
13	–	–	–	–	
14	–	–	–	–	
15	1.10	1.07	1.13	1.10	
16	1.18	1.23	1.26	1.28	
17	1.29	1.21	1.20	1.17	
18	1.13	1.13	1.14	1.12	
19	1.15	1.23	1.27	1.24	
20	–	–	–	–	
21	–	–	–	–	
22	1.32	1.38	1.42	1.38	
23	1.43	1.39	1.42	1.39	
24	1.43	1.39	1.42	1.38	
25	1.42	1.38	1.42	1.38	
26	1.41	1.38	1.40	1.36	
27	–	–	–	–	
28	–	–	–	–	
29	1.43	1.35	1.35	1.32	
30	1.34	1.30	1.30	1.30	
31	1.33	1.28	1.28	1.28	

Table 3-24 Piezometric Head Variation in the Tree Crop Field in relation to Canal Stage

Khok Nai Leaching Test Plot , April '93

Positions of Strainers : z=0.380m

Date	T 1 Total Head P. No.1	T 2 Total Head P. No.2	T 3 Total Head P. No.3	Canal Stage	Remarks
1	1.30	1.26	1.32	1.26	
2	1.28	1.26	1.27	1.23	
3	–	–	–	–	
4	–	–	–	–	
5	1.22	1.21	1.21	1.17	
6	1.20	1.15	1.18	1.14	
7	1.17	1.13	1.16	1.12	
8	1.14	1.10	1.12	1.10	
9	1.14	1.05	1.16	1.07	
10	–	–	–	–	
11	–	–	–	–	
12	1.21	1.18	1.20	1.17	
13	1.21	1.18	1.19	1.18	
14	1.20	1.24	1.24	1.27	
15	1.33	1.31	1.26	1.28	
16	1.32	1.33	1.25	1.35	
17	–	–	–	–	
18	–	–	–	–	
19	1.29	1.25	1.28	1.24	
20	1.26	1.14	1.16	1.12	
21	1.10	1.07	1.10	1.07	
22	1.01	0.98	1.05	0.97	
23	1.02	1.00	1.01	0.98	
24	–	–	–	–	
25	–	–	–	–	
26	1.01	0.97	1.01	0.97	
27	1.01	0.96	1.00	0.96	
28	1.00	0.96	0.98	0.95	
29	0.99	0.94	0.97	0.94	
30	0.97	0.93	0.97	0.92	
31					

Table 3-25 Piezometric Head Variation in the Tree Crop Field in relation to Canal Stage

Khok Nai Leaching Test Plot , May '93

Positions of Strainers : z=0.380m

Date	T 1	T 2	T 3	Canal Stage	Remarks
	Total Head P. No.1	Total Head P. No.2	Total Head P. No.3		
1					
2					
3	0.89	0.88	0.92	0.88	
4	0.88	0.87	0.92	0.86	
5	0.88	0.85	0.92	0.84	
6	0.88	0.83	0.92	0.83	
7	0.87	0.82	0.91	0.82	
8					
9					
10	0.84	0.80	0.83	0.79	
11	0.91	0.88	0.88	0.87	
12	0.99	0.96	0.99	0.96	
13	1.10	1.07	1.03	1.06	
14	1.19	1.15	1.18	1.15	
15					
16					
17	1.26	1.13	1.26	1.12	
18	1.25	1.25	1.30	1.28	
19	1.25	1.18	1.31	1.20	
20	1.30	1.22	1.27	1.22	
21	1.27	1.27	1.32	1.26	
22					
23					
24	1.23	1.12	1.15	1.12	
25	1.14	1.11	1.13	1.10	
26	1.15	1.12	1.14	1.11	
27	1.20	1.17	1.20	1.16	
28	1.20	1.16	1.19	1.16	
29					
30					
31	1.16	1.07	1.08	1.06	

Table 3-26 Piezometric Head Variation in the Tree Crop Field in relation to Canal Stage

Khok Nai Leaching Test Plot , June '93 Positions of Strainers : z=0.380m

Date	T 1 Total Head P. No.1	T 2 Total Head P. No.2	T 3 Total Head P. No.3	Canal Stage	Remarks
1	1.19	1.16	1.18	1.15	
2	1.20	1.16	1.19	1.14	
3	1.23	1.19	1.23	1.19	
4	1.24	1.25	1.28	1.24	
5	—	—	—	—	
6	—	—	—	—	
7	1.32	1.29	1.36	1.29	
8	1.34	1.31	1.37	1.33	
9	1.35	1.31	1.34	1.31	
10	1.33	1.31	1.34	1.30	
11	1.28	1.27	1.27	1.28	
12	—	—	—	—	
13	—	—	—	—	
14	1.43	1.41	1.44	1.40	
15	1.45	1.41	1.44	1.40	
16	1.33	1.29	1.42	1.28	
17	1.17	1.14	1.27	1.13	
18	1.07	1.02	1.16	1.03	
19	—	—	—	—	
20	—	—	—	—	
21	1.13	1.07	1.12	1.07	
22	1.08	1.05	1.07	1.03	
23	0.94	0.89	0.92	0.90	
24	1.01	0.92	0.94	0.93	
25	1.09	1.10	1.12	1.1	
26	—	—	—	—	
27	—	—	—	—	
28	1.16	1.11	1.14	1.12	
29	1.10	1.09	1.09	1.09	
30	1.15	1.13	1.16	1.13	
31					

Table 3-27 Piezometric Head Variation in the Tree Crop Field in relation to Canal Stage

Khok Nai Leaching Test Plot , July '93

Positions of Strainers : z=0.380m

Date	T 1	T 2	T 3	Canal Stage	Remarks
	Total Head P. No.1	Total Head P. No.2	Total Head P. No.3		
1	1.13	1.00	1.04	1.00	
2	1.13	1.03	1.07	1.06	
3	–	–	–	–	
4	–	–	–	–	
5	0.99	0.95	0.97	0.94	
6	1.03	0.99	1.02	0.99	
7	1.03	1.00	1.04	1.01	
8	–	–	–	0.95	
9	1.24	1.23	1.27	1.22	
10	–	–	–	–	
11	–	–	–	–	
12	1.17	1.11	1.16	1.10	
13	1.14	1.10	1.11	1.10	
14	1.09	1.05	1.07	1.13	
15	1.10	0.94	0.98	0.97	
16	1.06	1.02	1.04	1.04	
17	–	–	–	–	
18	–	–	–	–	
19	1.15	1.11	1.14	1.10	
20	1.16	1.11	1.14	1.10	
21	1.15	1.15	1.20	1.15	
22	1.25	1.19	1.25	1.21	
23	1.27	1.22	1.24	1.22	
24	–	–	–	–	
25	–	–	–	–	
26	1.31	1.26	1.28	1.28	
27	1.32	1.27	1.31	1.29	
28	1.35	1.30	1.33	1.31	
29	1.34	1.29	1.35	1.31	
30	1.34	1.31	1.33	1.30	
31	–	–	–	–	

Table 3-28 Piezometric Head Variation in the Tree Crop Field in relation to Canal Stage

Khok Nai Leaching Test Plot , August '93

Positions of Strainers : z=0.380m

Date	T 1	T 2	T 3	Canal Stage	Remarks
	Total Head P. No.1	Total Head P. No.2	Total Head P. No.3		
1	—	—	—	—	
2	1.36	1.27	1.32	1.28	
3	1.36	1.37	1.36	1.33	
4	1.28	1.29	1.36	1.33	
5	1.34	1.28	1.34	1.28	
6	1.14	—	—	1.10	
7	—	—	—	—	
8	—	—	—	—	
9	1.06	0.95	0.99	0.96	
10	1.02	0.84	0.87	0.85	
11	0.97	0.84	0.86	0.85	
12	0.89	0.86	0.88	0.86	
13	0.97	0.85	0.89	0.86	
14	—	—	—	—	
15	—	—	—	—	
16	0.92	0.85	0.88	0.86	
17	0.90	0.85	0.87	0.86	
18	0.94	0.84	0.88	0.86	
19	0.96	0.83	0.86	0.86	
20	0.92	0.88	1.00	0.88	
21	—	—	—	—	
22	—	—	—	—	
23	1.01	0.98	1.01	1.01	
24	1.05	1.02	1.03	1.02	
25	1.05	1.03	1.05	1.03	
26	1.09	1.04	1.05	1.03	
27	1.09	1.04	1.06	1.05	
28	—	—	—	—	
29	—	—	—	—	
30	1.24	1.24	1.26	1.22	
31	1.30	1.27	1.30	1.25	

Table 3-29 Piezometric Head Variation in the Upland Field with Time in relation to Canal Stage

Khok Nai Leaching Test Plot , November '92

Positions of Strainers : z=0.380m

Date	U 1	U 2	U 3	U 4	U 5	U 6	Canal Stage	Remarks
	Total Head P. No. 7	Total Head P. No. 9	Total Head P. No. 10	Total Head P. No. 11	Total Head P. No. 12	Total Head P. No. 13		
1	–	–	–	–	–	–	1.13	
2	–	–	–	–	–	–	–	
3	1.01	1.09	1.07	1.22	0.94	0.925	0.98	
4	0.86	0.96	0.91	0.93	0.75	0.735	0.795	
5	0.695	0.85	0.89	0.825	0.59	0.56	0.50	
6	0.59	0.81	0.86	0.77	0.54	0.51	0.55	
7	0.70	0.775	0.80	0.77	0.63	0.63	0.64	
8	0.77	0.78	0.77	0.785	0.70	0.715	0.73	
9	0.765	0.945	0.795	0.80	0.77	0.77	0.79	
10	0.86	0.87	0.93	0.874	0.797	0.795	0.80	
11	0.74	0.77	0.807	0.765	0.675	0.68	0.67	
12	1.185	1.185	1.12	1.185	1.16	1.155	1.17	
13	1.36	1.36	1.37	1.37	1.295	1.295	1.30	
14	1.24	1.245	1.26	1.26	1.18	1.17	1.18	
15	–	–	–	–	–	–	–	
16	1.20	1.31	1.225	1.282	1.235	1.265	1.29	
17	1.34	1.34	1.30	1.36	1.285	1.275	1.29	
18	–	–	–	–	–		1.36	
19	1.435	1.435	1.457	1.456	1.385	1.388	1.395	
20	1.455	1.45	1.46	1.475	1.40	1.395	1.405	
21	1.488	1.48	1.467	1.50	1.434	1.427	1.404	
22	–	–	–	–	–	–	–	
23	–	–	–	–	–	–	–	
24	1.522	1.513	1.435	1.496	1.464	1.444	1.48	
25	–	–	–	–	–	–	–	
26	–	–	–	–	–	–	–	
27	–	–	–	–	–	–	–	
28	–	–	–	–	–	–	–	
29	–	–	–	–	–	–	–	
30	–	–	–	–	–	–	–	
31								

Table 3-30 Piezometric Head Variation in the Upland Field with Time in relation to Canal Stage

Khok Nai Leaching Test Plot , December '92 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 7	U 2 Total Head P. No. 9	U 3 Total Head P. No. 10	U 4 Total Head P. No. 11	U 5 Total Head P. No. 12	U 6 Total Head P. No. 13	Canal Stage	Remarks
1	–	–	–	–	–	–	1.095	
2	1.065	1.08	1.07	1.085	1.01	1.02	1.025	
3	–	–	–	–	–	–	–	
4	–	–	–	–	–	–	–	
5	–	–	–	–	–	–	–	
6	–	–	–	–	–	–	–	
7	–	–	–	–	–	–	–	
8	1.405	1.40	1.41	1.43	1.34	1.345	1.34	
9	1.428	1.413	1.395	1.433	1.395	1.395	1.42	
10	1.442	1.435	1.397	1.46	1.434	1.427	1.44	
11	1.49	1.47	1.49	1.514	1.458	1.40	1.47	
12	1.525	1.52	1.535	1.545	1.473	1.463	1.47	
13	1.525	1.51	1.53	1.54	1.468	1.46	1.47	
14	1.51	1.517	1.53	1.54	1.468	1.46	1.47	
15	1.483	1.48	1.495	1.505	1.43	1.425	1.43	
16	1.485	1.48	1.49	1.502	1.425	1.42	1.43	
17	1.185	1.20	1.23	1.207	1.14	1.127	1.12	
18	1.035	1.038	1.03	0.99	0.98	0.97	0.99	
19	0.925	0.905	0.95	0.94	0.86	0.88	0.87	
20	1.175	1.07	1.04	1.01	1.02	1.024	1.03	
21	1.19	1.176	1.18	1.185	1.13	1.13	1.14	
22	1.26	1.21	1.23	1.28	1.135	1.132	1.19	
23	1.18	1.16	1.235	1.18	1.14	1.14	1.17	
24	1.195	1.185	1.21	1.21	1.155	1.155	1.18	
25	1.22	1.27	1.23	1.23	1.245	1.22	1.24	
26	–	–	–	–	–	–	1.47	
27	–	–	–	–	–	–	1.45	
28	1.525	1.52	1.53	1.55	1.47	1.465	1.48	
29	1.525	1.55	1.535	1.55	1.49	1.48	1.51	
30	1.54	1.51	1.53	1.54	1.475	1.475	1.49	
31	1.44	1.435	1.45	1.46	1.39	1.39	1.40	

Table 3-31 Piezometric Head Variation in the Upland Field with Time in relation to Canal Stage

Khok Nai Leaching Test Plot , January '93 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 7	U 2 Total Head P. No. 9	U 3 Total Head P. No. 10	U 4 Total Head P. No. 11	U 5 Total Head P. No. 12	U 6 Total Head P. No. 13	Canal Stage	Remarks
1	1.22	1.26	1.26	1.28	1.20	1.195	1.21	
2	1.185	1.185	1.24	1.205	1.13	1.12	1.15	
3	1.10	1.10	1.09	1.10	1.05	1.045	1.06	
4	1.205	1.20	1.19	1.135	1.11	1.13	1.16	
5	1.285	1.29	1.24	1.32	1.245	1.23	1.25	
6	1.345	1.345	1.27	1.265	1.29	1.28	1.30	
7	1.37	1.37	1.335	1.375	1.325	1.325	1.34	
8	—	—	—	—	—	—	1.32	
9	1.34	1.34	1.34	1.37	1.28	1.28	1.30	
10	1.26	1.26	1.265	1.28	1.195	1.195	1.26	
11	1.16	1.16	1.17	1.178	1.105	1.09	1.12	
12	1.12	1.095	1.085	1.13	1.06	1.055	1.07	
13	1.025	1.025	1.03	1.06	0.99	0.98	1.00	
14	1.12	1.103	1.11	1.135	1.07	1.065	1.09	
15	1.03	1.025	1.07	1.055	0.95	0.965	0.95	
16	0.995	0.965	0.97	1.015	0.935	0.925	0.95	
17	0.957	0.95	0.95	0.99	0.915	0.91	0.92	
18	0.91	0.895	0.905	0.93	0.88	0.91	0.92	
19	0.935	0.935	0.915	0.93	0.92	0.92	0.93	
20	1.075	1.075	1.05	1.07	1.025	1.02	1.05	
21	1.095	1.09	1.08	1.11	1.03	1.03	1.05	
22	1.05	1.03	1.04	1.06	1.02	1.01	1.04	
23	1.105	1.08	1.10	1.115	1.04	1.04	1.07	
24	1.06	1.07	1.06	1.095	1.005	0.996	1.04	
25	1.00	0.995	0.985	1.025	0.95	0.935	0.96	
26	0.95	0.935	0.935	0.975	0.89	0.88	0.91	
27	1.03	1.01	1.005	1.05	0.97	0.97	0.98	
28	1.095	1.085	1.07	1.125	1.035	1.04	1.05	
29	—	—	—	—	—	—	—	
30	1.12	1.11	1.10	1.14	1.045	1.05	1.06	
31	1.15	1.145	1.137	1.17	1.08	1.085	1.10	

Table 3-32 Piezometric Head Variation in the Upland Field with Time in relation to Canal Stage

Khok Nai Leaching Test Plot , February '98 Positions of Strainers : z=0.380m

Date	U 1	U 2	U 3	U 4	U 5	U 6	Canal Stage	Remarks
	Total Head P. No. 7	Total Head P. No. 9	Total Head P. No. 10	Total Head P. No. 11	Total Head P. No. 12	Total Head P. No. 13		
1	1.085	1.19	1.16	1.11	1.13	1.125	1.17	
2	1.26	1.23	1.19	1.25	1.195	1.20	1.25	
3	1.31	1.23	1.28	1.28	1.24	1.23	1.28	
4	1.34	1.327	1.325	1.33	1.276	1.28	1.30	
5	1.36	1.355	1.34	1.31	1.305	1.29	1.30	
6	–	–	–	–	–	–	–	
7	–	–	–	–	–	–	–	
8	1.41	1.40	1.41	1.42	1.35	1.35	1.37	
9	1.415	1.405	1.41	1.44	1.35	1.355	1.37	
10	1.015	1.02	1.03	1.01	0.955	0.95	0.95	
11	1.085	1.08	1.07	1.065	1.03	1.02	1.305	
12	1.14	1.135	1.14	1.17	1.09	1.085	1.10	
13	–	–	–	–	–	–	–	
14	–	–	–	–	–	–	–	
15	1.18	1.175	1.17	1.20	1.12	1.115	1.13	
16	1.11	1.10	1.10	1.11	1.055	1.05	1.06	
17	1.125	1.115	1.115	1.145	1.07	1.06	1.075	
18	1.015	1.01	1.00	0.98	0.97	0.96	1.96	
19	1.05	1.05	1.035	1.075	0.99	0.98	1.00	
20	–	–	–	–	–	–	–	
21	–	–	–	–	–	–	–	
22	1.12	1.12	1.11	1.14	1.07	1.07	1.08	
23	1.00	0.995	1.03	1.00	0.96	0.945	0.955	
24	1.035	1.02	1.005	1.06	0.97	0.96	0.98	
25	1.04	1.025	1.005	1.055	0.98	0.985	1.005	
26	1.088	1.08	1.07	1.11	1.03	1.025	1.04	
27	–	–	–	–	–	–	–	
28	–	–	–	–	–	–	–	
29								
30								
31								

Table 3-33 Piezometric Head Variation in the Upland Field with Time in relation to Canal Stage

Khok Nai Leaching Test Plot , March '93

Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No.7	U 2 Total Head P. No.9	U 3 Total Head P. No.10	U 4 Total Head P. No.11	U 5 Total Head P. No.12	U 6 Total Head P. No.13	Canal Stage	Remarks
1	1.26	1.19	1.24	1.29	1.19	1.19	1.20	
2	1.27	1.25	1.25	1.28	1.21	1.20	1.21	
3	1.26	1.24	1.24	1.28	1.19	1.19	1.21	
4	1.18	1.17	1.26	1.17	1.12	1.12	1.14	
5	1.10	1.09	1.10	1.12	1.04	1.04	1.05	
6	—	—	—	—	—	—	—	
7	—	—	—	—	—	—	—	
8	1.08	1.04	1.10	1.05	1.01	1.02	1.03	
9	1.10	1.05	1.11	1.12	1.03	1.04	1.05	
10	1.11	1.05	1.10	1.15	1.04	1.04	1.06	
11	1.12	1.05	1.09	1.15	1.05	1.05	1.06	
12	1.10	1.10	1.09	1.12	1.05	1.04	1.05	
13	—	—	—	—	—	—	—	
14	—	—	—	—	—	—	—	
15	1.13	1.09	1.08	1.12	1.07	1.08	1.10	
16	1.33	1.28	1.17	1.30	1.25	1.27	1.28	
17	1.22	1.22	1.21	1.24	1.16	1.16	1.17	
18	1.18	1.15	1.16	1.20	1.12	1.11	1.12	
19	1.29	1.24	1.20	1.31	1.21	1.22	1.24	
20	—	—	—	—	—	—	—	
21	—	—	—	—	—	—	—	
22	1.42	1.42	1.42	1.44	1.35	1.36	1.38	
23	1.44	1.43	1.42	1.46	1.38	1.38	1.39	
24	1.44	1.43	1.44	1.45	1.38	1.37	1.38	
25	1.42	1.44	1.42	1.44	1.37	1.37	1.38	
26	1.41	1.41	1.41	1.41	1.35	1.35	1.36	
27	—	—	—	—	—	—	—	
28	—	—	—	—	—	—	—	
29	1.37	1.36	1.36	1.36	1.31	1.30	1.32	
30	1.35	1.33	1.35	1.36	1.28	1.28	1.30	
31	1.33	1.29	1.32	1.35	1.27	1.27	1.28	

Table 3-34 Piezometric Head Variation in the Upland Field with Time in relation to Canal Stage

Khok Nai Leaching Test Plot , April '93 Positions of Strainers : z=0.380m

Date	U 1	U 2	U 3	U 4	U 5	U 6	Canal Stage	Remarks
	Total Head P. No. 7	Total Head P. No. 9	Total Head P. No. 10	Total Head P. No. 11	Total Head P. No. 12	Total Head P. No. 13		
1	1.31	1.30	1.30	1.33	1.27	1.26	1.26	
2	1.29	1.28	1.28	1.31	1.23	1.23	1.23	
3	—	—	—	—	—	—	—	
4	—	—	—	—	—	—	—	
5	1.21	1.22	1.21	1.24	1.17	1.16	1.17	
6	1.20	1.19	1.19	1.22	1.14	1.14	1.14	
7	1.17	1.16	1.17	1.19	1.10	1.12	1.12	
8	1.13	1.14	1.13	1.17	1.09	1.08	1.10	
9	1.12	1.12	1.14	1.14	1.06	1.06	1.07	
10	—	—	—	—	—	—	—	
11	—	—	—	—	—	—	—	
12	1.22	1.22	1.22	1.25	1.15	1.16	1.17	
13	1.22	1.21	1.21	1.24	1.15	1.16	1.18	
14	1.26	1.27	1.27	1.30	1.22	1.24	1.27	
15	1.34	1.31	1.29	1.36	1.28	1.27	1.28	
16	1.36	1.33	1.34	1.36	1.32	1.34	1.35	
17	—	—	—	—	—	—	—	
18	—	—	—	—	—	—	—	
19	1.30	1.30	1.29	1.32	1.28	1.24	1.24	
20	1.18	1.18	1.17	1.19	1.12	1.12	1.12	
21	1.11	1.12	1.11	1.13	1.06	1.06	1.07	
22	1.02	1.04	1.03	1.04	0.96	0.97	0.97	
23	1.03	1.03	1.02	1.05	0.97	0.97	0.98	
24	—	—	—	—	—	—	—	
25	—	—	—	—	—	—	—	
26	1.02	1.00	0.99	1.04	0.97	0.96	0.97	
27	1.01	1.00	0.99	1.04	0.96	0.95	0.96	
28	1.00	0.99	0.97	1.00	0.95	0.94	0.95	
29	0.99	0.98	0.96	0.99	0.94	0.93	0.94	
30	0.98	0.96	0.95	0.99	0.92	0.90	0.92	
31								

Table 3-35 Piezometric Head Variation in the Upland Field with Time in relation to Canal Stage

Khok Nai Leaching Test Plot , May '93

Positions of Strainers : z=0.380m

Date	U 1	U 2	U 3	U 4	U 5	U 6	Canal Stage	Remarks
	Total Head P. No. 7	Total Head P. No. 9	Total Head P. No. 10	Total Head P. No. 11	Total Head P. No. 12	Total Head P. No. 13		
1	0.93	0.91	0.90	0.95	0.87	0.87	—	
2	0.90	0.89	0.88	0.93	0.86	0.85	—	
3	0.89	0.88	0.87	0.92	0.84	0.83	0.88	
4	0.88	0.86	0.86	0.90	0.83	0.82	0.86	
5	0.87	0.86	0.85	0.88	0.82	0.81	0.84	
6	0.88	0.86	0.86	0.90	0.83	0.82	0.83	
7	0.87	0.86	0.85	0.88	0.82	0.81	0.82	
8	—	—	—	—	—	—	—	
9	—	—	—	—	—	—	—	
10	0.83	0.83	0.80	0.86	0.78	0.85	0.79	
11	0.92	0.90	0.85	0.92	0.87	0.87	0.87	
12	1.01	1.00	0.96	1.03	0.95	0.95	0.96	
13	1.11	1.10	1.08	1.14	1.06	1.06	1.06	
14	1.21	1.19	1.12	1.22	1.15	1.14	1.15	
15	—	—	—	—	—	—	—	
16	—	—	—	—	—	—	—	
17	1.22	1.26	1.19	1.15	1.11	1.11	1.12	
18	1.27	1.27	1.20	1.28	1.20	1.25	1.28	
19	1.23	1.23	1.23	1.25	1.20	1.19	1.20	
20	1.27	1.26	1.26	1.29	1.22	1.22	1.22	
21	1.30	1.36	1.29	1.36	1.27	1.26	1.26	
22	—	—	—	—	—	—	—	
23	—	—	—	—	—	—	—	
24	1.17	1.15	1.15	1.19	1.12	1.11	1.12	
25	1.16	1.15	1.15	1.18	1.10	1.10	1.10	
26	1.17	1.15	1.15	1.19	1.11	1.11	1.11	
27	1.22	1.18	1.20	1.24	1.17	1.16	1.16	
28	1.21	1.20	1.19	1.24	1.16	1.15	1.16	
29	—	—	—	—	—	—	—	
30	—	—	—	—	—	—	—	
31	1.12	1.11	1.11	1.13	1.07	1.06	1.06	

Table 3-36 Piezometric Head Variation in the Upland Field with Time in relation to Canal Stage

Khok Nai Leaching Test Plot , June '93

Positions of Strainers : z=0.380m

Date	U 1	U 2	U 3	U 4	U 5	U 6	Canal Stage	Remarks
	Total Head P. No. 7	Total Head P. No. 9	Total Head P. No. 10	Total Head P. No. 11	Total Head P. No. 12	Total Head P. No. 13		
1	1.20	1.19	1.10	1.22	1.15	1.15	1.15	
2	1.21	1.19	1.10	1.22	1.14	1.15	1.14	
3	1.25	1.24	1.17	1.17	1.20	1.19	1.19	
4	1.29	1.26	1.27	1.32	1.24	1.24	1.24	
5	—	—	—	—	—	—	—	
6	—	—	—	—	—	—	—	
7	1.34	1.32	1.31	1.35	1.29	1.28	1.29	
8	1.36	1.33	1.33	1.37	1.32	1.32	1.33	
9	1.36	1.35	1.35	1.38	1.30	1.30	1.31	
10	1.36	1.31	1.34	1.36	1.37	1.30	1.30	
11	1.31	1.30	1.30	1.33	1.27	1.26	1.28	
12	—	—	—	—	—	—	—	
13	—	—	—	—	—	—	—	
14	1.46	1.40	1.39	1.43	1.39	1.38	1.40	
15	1.46	1.40	1.39	1.43	1.39	1.38	1.40	
16	1.34	1.34	1.35	1.41	1.29	1.28	1.28	
17	1.19	1.17	1.18	1.20	1.13	1.13	1.13	
18	1.08	1.06	1.05	1.09	1.01	1.01	1.03	
19	—	—	—	—	—	—	—	
20	—	—	—	—	—	—	—	
21	1.13	1.15	1.07	1.12	1.07	1.07	1.07	
22	1.07	1.07	1.08	1.12	1.04	1.03	1.03	
23	0.95	0.95	0.96	0.96	0.88	0.88	0.90	
24	0.99	0.98	1.00	1.00	0.91	0.91	0.93	
25	1.14	1.12	1.01	1.10	1.07	1.07	1.1	
26	—	—	—	—	—	—	—	
27	—	—	—	—	—	—	—	
28	1.17	1.16	1.14	1.18	1.11	1.11	1.12	
29	1.12	1.11	1.11	1.14	1.09	1.08	1.09	
30	1.19	1.15	1.15	1.20	1.12	1.12	1.13	
31								

Table 3-37 Piezometric Head Variation in the Upland Field with Time in relation to Canal Stage

Khok Nai Leaching Test Plot , July '93

Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 7	U 2 Total Head P. No. 9	U 3 Total Head P. No. 10	U 4 Total Head P. No. 11	U 5 Total Head P. No. 12	U 6 Total Head P. No. 13	Canal Stage	Remarks
1	1.05	1.06	1.07	1.07	1.01	0.99	1.00	
2	1.06	1.06	1.06	1.06	1.04	1.02	1.06	
3	—	—	—	—	—	—	—	
4	—	—	—	—	—	—	—	
5	1.00	0.98	0.98	1.04	0.93	0.93	0.94	
6	1.04	1.00	1.00	1.07	0.95	0.95	0.99	
7	1.08	1.07	1.07	1.07	1.02	1.00	1.01	
8	—	—	—	—	—	—	0.95	
9	1.27	1.26	1.27	1.27	1.21	1.21	1.22	
10	—	—	—	—	—	—	—	
11	—	—	—	—	—	—	—	
12	1.17	1.23	1.15	1.19	1.12	1.12	1.10	
13	1.15	1.13	1.11	1.16	1.09	1.09	1.10	
14	1.09	1.09	1.07	1.11	1.14	1.14	1.13	
15	0.98	0.99	1.01	0.96	0.93	0.94	0.97	
16	1.06	1.06	1.03	1.09	1.02	1.01	1.04	
17	—	—	—	—	—	—	—	
18	—	—	—	—	—	—	—	
19	1.15	1.12	1.11	1.15	1.09	1.09	1.10	
20	1.16	1.13	1.12	1.18	1.12	1.11	1.10	
21	1.20	1.17	1.14	1.19	1.14	1.13	1.15	
22	1.25	1.20	1.19	1.25	1.20	1.19	1.21	
23	1.28	1.27	1.24	1.28	1.21	1.20	1.22	
24	—	—	—	—	—	—	—	
25	—	—	—	—	—	—	—	
26	1.32	1.42	1.31	1.34	1.26	1.27	1.28	
27	1.33	1.32	1.30	1.33	1.28	1.26	1.29	
28	1.35	1.34	1.33	1.35	1.30	1.29	1.31	
29	1.36	1.35	1.33	1.36	1.30	1.29	1.31	
30	1.36	1.33	1.35	1.37	1.31	1.30	1.30	
31	—	—	—	—	—	—	—	

Table 3-38 Piezometric Head Variation in the Upland Field with Time in relation to Canal Stage

Khok Nai Leaching Test Plot , August '93 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 7	U 2 Total Head P. No. 9	U 3 Total Head P. No. 10	U 4 Total Head P. No. 11	U 5 Total Head P. No. 12	U 6 Total Head P. No. 13	Canal Stage	Remarks
1	–	–	–	–	–	–	–	
2	1.33	1.30	1.34	1.35	1.27	1.27	1.28	
3	1.38	1.35	1.34	1.30	1.32	1.33	1.33	
4	1.38	1.36	1.34	1.30	1.33	1.33	1.33	
5	1.34	1.37	1.35	1.35	1.32	1.28	1.28	
6	1.15	1.33	1.33	1.18	1.08	1.09	1.10	
7	–	–	–	–	–	–	–	
8	–	–	–	–	–	–	–	
9	1.03	1.01	1.01	0.93	0.96	0.94	0.96	
10	0.87	0.91	0.93	0.92	0.85	0.83	0.85	
11	0.97	0.87	0.89	0.91	0.84	0.80	0.86	
12	0.91	0.89	0.88	0.92	0.84	0.84	0.86	
13	0.91	0.87	0.88	0.92	0.86	0.84	0.86	
14	–	–	–	–	–	–	–	
15	–	–	–	–	–	–	–	
16	0.90	0.89	0.87	0.92	0.83	0.83	0.86	
17	0.89	0.88	0.87	0.87	0.84	0.82	0.86	
18	0.87	0.89	0.86	0.86	0.83	0.83	0.86	
19	0.88	0.87	0.83	0.88	0.82	0.82	0.88	
20	0.88	0.86	0.85	0.93	0.86	0.85	0.88	
21	–	–	–	–	–	–	–	
22	–	–	–	–	–	–	–	
23	1.06	1.03	1.01	1.06	0.99	0.98	1.02	
24	1.04	1.05	1.04	1.07	0.98	1.00	1.03	
25	1.05	1.06	1.04	1.09	1.00	1.02	1.03	
26	1.08	1.06	1.05	1.08	1.01	1.01	1.05	
27	1.10	1.10	1.09	1.14	1.03	1.03	1.01	
28	–	–	–	–	–	–	–	
29	–	–	–	–	–	–	–	
30	1.28	1.27	1.25	1.30	1.23	1.22	1.22	
31	1.29	1.28	1.25	1.30	1.26	1.25	1.25	

Table 3-39 Piezometric Head Variation in the Paddy Field with Time in Relation to Canal Stage and Water Depth of Paddies

Khok Nai Leaching Test Plot , November '92 Positions of Strainers : z=0.380m

Date	P 1		P 2		P 3		P 4		Canal Stage	Remarks
	Total Head P. No.14	Water Depth	Total Head P. No.15	Water Depth	Total Head P. No.16	Water Depth	Total Head P. NO.17	Water Depth		
1	—		—		—		—		0.113	
2	—		—		—		—		—	
3	1.00		0.945		1.20		1.125		0.98	
4	0.83		0.955		1.155		1.37		0.795	
5	0.69		0.935		1.10		1.36	0.075	0.50	
6	0.695		0.93		1.07		1.49	0.194	0.55	
7	0.97	0.085	0.95		1.08		1.545	0.255	0.64	
8	1.03	0.07	0.94		1.07		1.57	0.265	0.73	
9	1.14	0.131	0.95		1.05		1.585	0.285	0.79	
10	1.105	0.14	0.872	0.095	1.05		1.568	0.20	0.80	
11	0.76	—	1.01	—	1.085		1.415	0.10	0.67	
12	1.13	0.14	1.02	0.10	1.125	0.07	1.525	0.22	1.17	
13	1.325	0.133	1.085	0.108	1.42	0.062	1.60	0.212	1.30	
14	1.21	0.068	1.14	0.00	1.31	0.00	1.515	0.13	1.18	
15	—	—	—	—	—	—	—	—	—	
16	1.23	0.12	0.193	—	1.325	—	1.56	0.163	1.29	
17	1.225	0.12	1.27	0.175	1.528	0.145	1.555	0.175	1.29	
18	—	0.215	—	0.187	—	0.185	—	0.125	1.36	
19	1.406	0.15	1.383	0.125	1.546	0.125	1.547	0.125	1.395	
20	1.425	0.105	1.44	0.125	1.31	0.10	1.65	0.255	1.405	
21	1.455	0.225	1.475	0.145	1.53	0.15	1.59	0.165	1.404	
22	—	—	—	—	—	—	—	—	—	
23	—	—	—	—	—	—	—	—	—	
24	1.477	0.14	1.535	0.158	1.549	0.155	1.639	0.24	1.48	
25	—	—	—	—	—	—	—	—	—	
26	—	—	—	—	—	—	—	—	—	
27	—	—	—	—	—	—	—	—	—	
28	—	—	—	—	—	—	—	—	—	
29	—	—	—	—	—	—	—	—	—	
30	—	—	—	—	—	—	—	—	—	
31										

Table 3-40 Piezometric Head Variation in the Paddy Field with Time in Relation to Canal Stage and Water Depth of Paddies

Khok Nai Leaching Test Plot , December '92 Positions of Strainers : z=0.380m

Date	P 1		P 2		P 3		P 4		Canal Stage	Remarks
	Total Head P. No.14	Water Depth	Total Head P. No.15	Water Depth	Total Head P. No.16	Water Depth	Total Head P. No.17	Water Depth		
1	—	—	—	—	—	—	—	—	1.095	
2	1.075	0.11	1.488	0.0	1.275	0.065	1.472	0.14	1.025	
3	—	—	—	—	—	—	—	—	—	
4	—	—	—	—	—	—	—	—	—	
5	—	—	—	—	—	—	—	—	—	
6	—	—	—	—	—	—	—	—	—	
7	—	—	—	—	—	—	—	—	—	
8	1.285	—	1.49	—	1.40	—	1.455	—	1.34	
9	1.35	—	1.52	—	1.632	—	1.498	—	1.42	
10	1.389	—	1.528	—	1.452	—	1.51	—	1.44	
11	1.55	—	1.512	—	1.515	—	1.545	—	1.47	
12	1.465	—	1.55	—	1.55	—	1.56	—	1.47	
13	1.463	—	1.55	—	1.55	—	1.551	—	1.47	
14	1.46	—	1.55	—	1.55	—	1.559	—	1.47	
15	1.373	—	1.55	—	1.54	—	1.543	—	1.43	
16	1.423	—	1.548	—	1.535	—	1.53	—	1.43	
17	1.133	—	1.54	—	1.49	—	1.405	—	1.12	
18	0.98	—	1.49	—	1.40	—	1.66	—	0.99	
19	0.86	0.095	1.45	—	1.34	0.05	1.36	0.07	0.87	
20	1.045	0.135	1.393	—	1.392	0.09	1.31	0.08	1.03	
21	1.126	0.095	1.38	0.04	1.27	0.05	1.40	0.085	1.14	
22	1.185	0.127	1.37	0.05	1.27	0.087	1.425	0.105	1.19	
23	1.01	0.17	1.375	0.08	1.28	0.067	1.425	0.135	1.17	
24	1.095	0.125	1.375	0.075	1.265	0.105	1.42	0.14	1.18	
25	1.125	0.025	1.37	0.075	1.265	0.105	1.47	0.14	1.24	
26	—	0.155	—	0.115	—	0.125	—	0.16	1.47	
27	—	0.12	—	0.08	—	0.085	—	0.115	1.45	
28	1.453	0.095	1.435	0.065	1.517	0.07	1.57	0.10	1.48	
29	1.46	0.095	1.45	0.077	1.545	0.075	1.545	0.115	1.51	
30	1.465	0.085	1.48	0.078	1.543	0.074	1.545	0.11	1.49	
31	1.39	—	1.49	—	1.545	—	1.525	—	1.40	

Table 3-41 Piezometric Head Variation in the Paddy Field with Time in Relation to Canal Stage and Water Depth of Paddies

Khok Nai Leaching Test Plot , January '93 Positions of Strainers : z=0.380m

Date	P 1		P 2		P 3		P 4		Canal Stage	Remarks
	Total Head P. No.14	Water Depth	Total Head P. No.15	Water Depth	Total Head P. No.16	Water Depth	Total Head P. No.17	Water Depth		
1	1.18	0.06	1.385	0	1.425	0.03	1.45	0.055	1.21	
2	1.13	0.03	1.45	0	1.365	0.027	1.38	0.035	1.15	
3	1.04	0.035	1.405	0	1.28	0	1.30	0.03	1.06	
4	1.135	0.02	1.28	0	1.27	0	1.35	0.025	1.16	
5	1.225	0.028	1.38	0	1.285	0	1.38	0.025	1.25	
6	1.285	0.025	1.38	0	1.325	0	1.41	0.2	1.30	
7	1.325	—	1.375	—	1.355	—	1.43	—	1.34	
8	—	0.019	—	0	—	0	—	0.027	1.32	
9	1.37	0.018	1.47	0	1.47	0	1.40	0.01	1.30	
10	1.20	0.015	1.38	0	1.316	0	1.335	0.008	1.26	
11	1.085	—	1.365	—	1.31	—	1.275	—	1.12	
12	1.07	0.075	1.35	—	1.27	0.04	1.28	0.07	1.07	
13	1.06	0.082	1.32	—	1.227	0.01	1.285	0.08	1.06	
14	1.075	0.075	1.305	—	1.107	0.012	1.30	0.075	1.09	
15	1.01	0.1	1.29	—	1.165	0.06	1.25	0.095	0.95	
16	0.945	0.1	1.265	—	1.14	0.06	1.22	0.1	0.95	
17	0.91	0.07	1.265	0.015	1.11	0.03	1.23	0.08	0.92	
18	0.885	0.085	1.24	0.048	1.105	0.075	1.21	0.06	0.92	
19	0.87	0.083	1.26	0.01	1.08	0.08	1.21	0.06	0.93	
20	1.00	0.068	1.26	0.065	1.09	0.095	1.275	0.04	1.05	
21	1.00	0.06	1.28	0.05	1.095	0.55	1.30	0.105	1.05	
22	0.995	0.06	1.285	0.085	1.105	0.035	1.26	0.075	1.04	
23	0.99	0.075	1.295	0.065	1.15	0.03	1.33	0.12	1.07	
24	0.996	0.02	1.31	0.077	1.26	0	1.29	0.115	1.04	
25	0.95	0.11	1.30	0.005	1.08	0.075	1.25	0.07	0.96	
26	0.92	0.123	1.26	0	1.03	0.087	1.20	0.04	0.91	
27	0.97	0.085	1.25	0.002	1.035	0.052	1.245	0.10	0.98	
28	1.025	0.07	1.26	0.094	1.08	0.035	1.27	0.07	1.05	
29	—	0.095	—	0.114	—	0.135	—	0.075	—	
30	1.04	0.095	1.28	0.055	1.11	0.08	1.305	0.105	1.06	
31	1.085	0.085	1.28	0.035	1.155	0.064	1.305	0.08	1.10	

Table 3-42 Piezometric Head Variation in the Paddy Field with Time in Relation to Canal Stage and Water Depth of Paddies

Khok Nai Leaching Test Plot , February '93 Positions of Strainers : z=0.380m

Date	P 1		P 2		P 3		P 4		Canal Stage	Remarks
	Total Head P. No.14	Water Depth	Total Head P. No.15	Water Depth	Total Head P. No.16	Water Depth	Total Head P. NO.17	Water Depth		
1	1.11	0.085	1.14	0.1	1.17	0.043	1.31	0.06	1.17	
2	1.21	0.095	1.195	0.09	1.19	0.05	1.355	0.065	1.25	
3	1.21	0.09	1.32	0.088	1.29	0.045	1.34	0.05	1.28	
4	1.285	0.085	1.33	0.05	1.34	0.03	1.40	0.045	1.30	
5	1.29	0.075	1.34	0.03	1.38	0.04	1.416	0.04	1.30	
6	—	—	—	—	—	—	—	—	—	
7	—	—	—	—	—	—	—	—	—	
8	1.345	0.065	1.39	0.00	1.48	0.015	1.465	0.055	1.37	
9	1.35	0.05	1.4	0.00	1.485	0.01	1.46	0.04	1.37	
10	0.97	0.07	1.365	0.00	1.13	0.00	1.295	0.068	0.95	
11	1.025	0.045	1.34	0.054	1.115	0.073	1.25	0.045	1.035	
12	1.08	0.02	1.14	0.06	1.155	0.08	1.275	0.04	1.10	
13	—	—	—	—	—	—	—	—	—	
14	—	—	—	—	—	—	—	—	—	
15	1.12	0.02	1.32	0.00	1.195	0.015	1.26	0.015	1.13	
16	1.045	0.005	1.315	0.01	1.16	0.005	1.29	0.053	1.06	
17	1.06	0.005	1.305	0.00	1.14	0.00	1.26	0.034	1.075	
18	0.98	0.005	1.285	0.002	1.095	0.02	1.195	0.015	0.96	
19	1.0	0.07	1.28	0.013	1.085	0.015	1.245	0.08	1.00	
20	—	—	—	—	—	—	—	—	—	
21	—	—	—	—	—	—	—	—	—	
22	1.06	0.02	1.25	0.01	1.14	0.025	1.23	0.02	1.08	
23	0.93	0.02	1.25	0.03	1.09	0.04	1.135	0.01	0.955	
24	0.925	0.005	1.24	0.025	1.07	0.035	1.2	0.075	0.98	
25	0.97	0.015	1.23	0.005	1.06	0.015	1.18	0.05	1.005	
26	1.05	0.06	1.235	0.05	1.095	0.01	1.21	0.045	1.04	
27	—	—	—	—	—	—	—	—	—	
28	—	—	—	—	—	—	—	—	—	
29										
30										
31										

Table 3-43 Piezometric Head Variation in the Paddy Field with Time in Relation to Canal Stage and Water Depth of Paddies

Khok Nai Leaching Test Plot , March '93

Positions of Strainers : z=0.380m

Date	P 1		P 2		P 3		P 4		Canal Stage	Remarks
	Total Head P. No.14	Water Depth	Total Head P. No.15	Water Depth	Total Head P. No.16	Water Depth	Total Head P. NO.17	Water Depth		
1	1.20	–	1.28	0.045	1.27	0.0064	1.37	0.145	1.20	
2	1.21	0.15	1.31	0.14	1.27	0.06	1.36	0.1	1.21	
3	1.20	0.16	1.32	0.15	1.28	0.10	1.38	0.15	1.21	
4	1.13	0.11	1.33	0.10	1.25	0.13	1.29	0.19	1.14	
5	1.04	0.05	1.31	0.11	1.17	0.14	1.28	0.20	1.05	
6	–	–	–	–	–	–	–	–	–	
7	–	–	–	–	–	–	–	–	–	
8	0.98	–	1.30	0.01	1.10	0.025	1.24	0.50	1.03	
9	0.98	0.015	1.29	–	1.20	–	1.23	0.04	1.05	
10	1.04	0.013	1.29	–	1.12	0.012	1.22	0.03	1.06	
11	1.05	0.01	1.28	–	1.10	0.08	1.21	0.028	1.06	
12	1.04	0.015	1.28	–	1.22	0.008	1.17	0.03	1.05	
13	–	–	–	–	–	–	–	–	–	
14	–	–	–	–	–	–	–	–	–	
15	1.02	0.03	1.29	0.01	1.14	0.02	1.17	0.04	1.10	
16	1.09	0.11	1.33	0.09	1.19	0.075	1.34	0.089	1.28	
17	1.16	0.06	1.33	0.04	1.24	0.036	1.30	0.07	1.17	
18	1.07	0.045	1.33	0.115	1.21	0.11	1.30	0.12	1.12	
19	1.18	–	1.35	0.12	1.17	0.115	1.32	0.125	1.24	
20	–	–	–	–	–	–	–	–	–	
21	–	–	–	–	–	–	–	–	–	
22	1.27	0.08	1.43	0.05	1.43	0.07	1.44	0.10	1.38	
23	1.29	0.10	1.45	0.06	1.45	0.075	1.48	0.09	1.39	
24	1.37	0.085	1.46	0.02	1.46	0.06	1.47	0.085	1.38	
25	1.35	0.07	1.46	0.015	1.45	0.055	1.46	0.08	1.38	
26	1.33	0.05	1.45	0.01	1.43	0.04	1.46	0.06	1.36	
27	–	–	–	–	–	–	–	–	–	
28	–	–	–	–	–	–	–	–	–	
29	1.30	0.005	1.45	–	1.40	0.005	1.44	0.02	1.32	
30	1.27	0.003	1.45	–	1.38	0.003	1.39	0.015	1.30	
31	1.26		1.45		1.37		1.38		1.28	

Table 3-44 Piezometric Head Variation in the Paddy Field with Time in Relation to Canal Stage and Water Depth of Paddies

Khok Nai Leaching Test Plot , April '93 Positions of Strainers : z=0.380m

Date	P 1		P 2		P 3		P 4		Canal Stage	Remarks
	Total Head P. No.14	Water Depth	Total Head P. No.15	Water Depth	Total Head P. No.16	Water Depth	Total Head P. No.17	Water Depth		
1	1.24	–	1.43	–	1.34	–	1.34	0.003	1.26	
2	1.24	–	1.43	–	1.32	–	1.32	–	1.23	
3	–	–	–	–	–	–	–	–	–	
4	–	–	–	–	–	–	–	–	–	
5	1.15	–	1.40	–	1.26	–	1.24	–	1.17	
6	1.12	–	1.38	–	1.23	–	1.21	–	1.14	
7	1.09	–	1.37	–	1.20	–	1.18	–	1.12	
8	1.08	–	1.35	–	1.18	–	1.16	–	1.10	
9	1.05	–	1.34	–	1.15	–	1.13	–	1.07	
10	–	–	–	–	–	–	–	–	–	
11	–	–	–	–	–	–	–	–	–	
12	1.15	–	1.31	–	1.22	–	1.28	–	1.17	
13	1.15	–	1.31	–	1.22	–	1.28	–	1.18	
14	1.23	0.01	1.34	0.01	1.25	0.01	1.38	0.01	1.27	
15	1.29	0.003	1.36	0.005	1.26	0.005	1.42	0.01	1.28	
16	1.29	0.01	1.37	0.013	1.33	0.013	1.45	0.015	1.35	
17	–	–	–	–	–	–	–	–	–	
18	–	–	–	–	–	–	–	–	–	
19	1.23	–	1.38	0.005	1.35	–	1.37	0.01	1.24	
20	1.11	–	1.37	–	1.25	–	1.30	0.005	1.12	
21	1.04	–	1.35		1.18		1.17		1.07	
22	0.95	–	1.32		1.09		1.08		0.97	
23	0.96	–	1.31		1.06		1.06		0.98	
24	–	–	–	–	–	–	–	–	–	
25	–	–	–	–	–	–	–	–	–	
26	0.94	–	1.25	–	1.04	–	1.04	–	0.97	
27	0.94	–	1.23	–	1.03	–	1.02	–	0.96	
28	0.93	–	1.21	–	1.03	–	1.01	–	0.95	
29	0.91	–	1.19	–	1.02	–	1.00	–	0.94	
30	0.90	–	1.17	–	1.00	–	0.98	–	0.92	
31										

Table 3-45 Piezometric Head Variation in the Paddy Field with Time in Relation to Canal Stage and Water Depth of Paddies

Khok Nai Leaching Test Plot , May '93 Positions of Strainers : z=0.380m

Date	P 1		P 2		P 3		P 4		Canal Stage	Remarks
	Total Head P. No.14	Water Depth	Total Head P. No.15	Water Depth	Total Head P. No.16	Water Depth	Total Head P. No.17	Water Depth		
1	–	–	–	–	–	–	–	–	–	
2	–	–	–	–	–	–	–	–	–	
3	0.85		1.14		0.96		0.93		0.88	
4	0.83		1.13		0.94		0.90		0.86	
5	0.82		1.12		0.93		0.88		0.84	
6	0.80		1.10		0.91		0.87		0.83	
7	0.79		1.09		0.90		0.86		0.82	
8	–	–	–	–	–	–	–	–	–	
9	–	–	–	–	–	–	–	–	–	
10	0.77		1.04		0.86		0.81		0.79	
11	0.96		1.06		1.12		1.30		0.87	
12	0.95		1.11		1.16		1.40		0.96	
13	1.16		1.13		1.33		1.35		1.06	
14	1.28		1.17		1.24		1.41		1.15	
15	–	–	–	–	–	–	–	–	–	
16	–	–	–	–	–	–	–	–	–	
17	1.11		1.25		1.20		1.33		1.12	
18	1.19		1.30		1.44		1.37		1.28	
19	1.18		1.32		1.37		1.40		1.20	
20	1.20		1.33		1.32		1.38		1.22	
21	1.27		1.40		1.38		1.44		1.26	
22	–	–	–	–	–	–	–	–	–	
23	–	–	–	–	–	–	–	–	–	
24	1.12		1.37		1.43		1.36		1.12	
25	1.12		1.39		1.40		1.33		1.10	
26	1.13		1.40		1.45		1.34		1.11	
27	1.17		1.41		1.45		1.35		1.16	
28	1.16		1.41		1.46		1.37		1.16	
29	–	–	–	–	–	–	–	–	–	
30	–	–	–	–	–	–	–	–	–	
31	1.09		1.40		1.38		1.31		1.06	

Table 3-46 Piezometric Head Variation in the Paddy Field with Time in Relation to Canal Stage and Water Depth of Paddies

Khok Nai Leaching Test Plot , June '93 Positions of Strainers : z=0.380m

Date	P 1		P 2		P 3		P 4		Canal Stage	Remarks
	Total Head P. No.14	Water Depth	Total Head P. No.15	Water Depth	Total Head P. No.16	Water Depth	Total Head P. NO.17	Water Depth		
1	1.17		1.40		1.44		1.36		1.15	
2	1.17		1.39		1.40		1.35		1.14	
3	1.19		1.39		1.41		1.38		1.19	
4	1.25		1.40		1.42		1.41		1.24	
5	—	—	—	—	—	—	—	—	—	
6	—	—	—	—	—	—	—	—	—	
7	1.28		1.30		1.44		1.42		1.29	
8	1.30		1.42		1.47		1.43		1.33	
9	1.30		1.41		1.45		1.43		1.31	
10	1.39		1.43		1.44		1.43		1.30	
11	1.26		1.43		1.41		1.40		1.28	
12	—	—	—	—	—	—	—	—	—	
13	—	—	—	—	—	—	—	—	—	
14	1.36		1.46		1.50		1.49	—	1.40	
15	1.35		1.46		1.50		1.50		1.40	
16	1.35		1.46		1.42		1.40		1.28	
17	1.12		1.45		1.25		1.28		1.13	
18	1.00		1.44		1.14		1.24		1.03	
19	—	—	—	—	—	—	—	—	—	
20	—	—	—	—	—	—	—	—	—	
21	1.04		1.41		1.18		1.27		1.07	
22	1.03		1.39		1.14		1.20		1.03	
23	0.88		1.35		1.09		1.06		0.90	
24	0.91		1.36		1.01		1.07		0.93	
25	1.05		1.34		1.26		1.26		1.1	
26	—	—	—	—	—	—	—	—	—	
27	—	—	—	—	—	—	—	—	—	
28	1.11		1.35		1.28		1.26		1.12	
29	1.10		1.37		1.27		1.30		1.09	
30	1.14		1.36		1.31		1.28		1.13	
31										

Table 3-47 Piezometric Head Variation in the Paddy Field with Time in Relation to Canal Stage and Water Depth of Paddies

Khok Nai Leaching Test Plot , July '93 Positions of Strainers : z=0.380m

Date	P 1		P 2		P 3		P 4		Canal Stage	Remarks
	Total Head P. No.14	Water Depth	Total Head P. No.15	Water Depth	Total Head P. No.16	Water Depth	Total Head P. NO.17	Water Depth		
1	0.99		1.340		1.22		1.21		1.00	
2	1.02		1.36		1.25		1.23		1.06	
3	—	—	—	—	—	—	—		—	
4	—	—	—	—	—	—	—		—	
5	0.93		1.35		1.19		1.18		0.94	
6	0.95		1.36		1.21		1.22		0.99	
7	0.99		1.36		1.23		1.24		1.01	
8	—	—	—	—	—	—	—	—	0.95	
9	1.21		1.42		1.30		1.31		1.22	
10	—	—	—	—	—	—	—	—	—	
11	—	—	—	—	—	—	—	—	—	
12	1.11		1.30		1.22		1.25		1.10	
13	1.08		1.29		1.17		1.28		1.10	
14	1.06		1.11		1.17		1.09		1.13	
15	1.27		1.08		1.08		1.11		0.97	
16	0.99		1.25		1.15		1.19		1.04	
17	—	—	—	—	—	—	—	—	—	
18	—	—	—	—	—	—	—	—	—	
19	1.10		1.26		1.22		1.23		1.10	
20	1.11		1.26		1.20		1.23		1.10	
21	1.11		1.24		1.21		1.27		1.15	
22	1.16		1.27		1.26		1.32		1.21	
23	1.22		1.29		1.30		1.32		1.22	
24	—	—	—	—	—	—	—	—	—	
25	—	—	—	—	—	—	—	—	—	
26	1.26		1.33		1.35		1.38		1.28	
27	1.27		1.34		1.37		1.39		1.29	
28	1.30		1.35		1.40		1.40		1.31	
29	1.31		1.35		1.39		1.41		1.31	
30	1.30		1.35		1.40		1.39		1.30	
31									—	

Table 3-48 Piezometric Head Variation in the Paddy Field with Time in Relation to Canal Stage and Water Depth of Paddies

Khok Nai Leaching Test Plot , August '93

Positions of Strainers : z=0.380m

Date	P 1		P 2		P 3		P 4		Canal Stage	Remarks
	Total Head P. No.14	Water Depth	Total Head P. No.15	Water Depth	Total Head P. No.16	Water Depth	Total Head P. No.17	Water Depth		
1	—	—	—	—	—	—	—	—	—	
2	1.26		1.36		1.38		1.39		1.28	
3	1.26		1.36		1.40		1.41		1.33	
4	1.32		1.37		1.42		1.43		1.33	
5	1.27		1.38		1.38		1.40		1.28	
6	1.08		1.35		1.21		1.23		1.10	
7	—	—	—	—	—	—	—	—	—	
8	—	—	—	—	—	—	—	—	—	
9	0.95		1.27		1.06		1.09		0.96	
10	0.83		1.29		0.94		0.97		0.85	
11	0.84		1.25		0.91		0.98		0.85	
12	0.86		1.24		0.94		1.01		0.86	
13	0.86		1.22		0.95		1.00		0.86	
14	—	—	—	—	—	—	—	—	—	
15	—	—	—	—	—	—	—	—	—	
16	0.85		1.25		0.89		0.93		0.86	
17	0.86		1.15		0.91		0.91		0.86	
18	0.83		1.14		0.91		0.91		0.86	
19	0.83		1.11		0.90		0.90		0.86	
20	0.82		1.10		0.97		1.04		0.88	
21	—	—	—	—	—	—	—	—		
22	—	—	—	—	—	—	—	—	—	
23	0.99		1.12		1.07		1.13		1.01	
24	0.99		1.13		1.08		1.11		1.02	
25	1.00		1.12		1.09		1.10		1.03	
26	1.02		1.11		1.08		1.09		1.03	
27	1.02		1.13		1.08		1.12		1.05	
28	—	—	—	—	—	—	—	—	—	
29	—	—	—	—	—	—	—	—	—	
30	1.21		1.20		1.28		1.29		1.22	
31	1.23		1.21		1.26		1.29		1.25	

Table 3-49 Piezometric Head Variation in the U1 plot with Time in relation to Canal Stage

Longitudinal Section

Khok Nai Leaching Test Plot , November '92 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 4	U 1 Total Head P. No. 7	U 1 Total Head P. No. 8	Canal Stage	Remarks
1	–	–	–	1.13	
2	–	–	–	–	
3	1.06	1.01	1.205	0.98	
4	0.89	0.86	0.92	0.795	
5	0.71	0.695	0.918	0.50	
6	0.635	0.59	0.87	0.55	
7	0.675	0.70	0.745	0.64	
8	0.78	0.77	0.745	0.73	
9	0.76	0.765	0.77	0.79	
10	0.825	0.86	0.843	0.80	
11	0.742	0.74	0.755	0.67	
12	1.14	1.185	1.135	1.17	
13	1.34	1.36	1.34	1.30	
14	1.22	1.24	1.23	1.18	
15	–	–	–	–	
16	1.31	1.20	1.238	1.29	
17	1.316	1.34	1.275	1.29	
18	–	–	–	1.36	
19	1.42	1.435	1.421	1.395	
20	1.44	1.455	1.44	1.405	
21	1.456	1.488	1.44	1.404	
22	–	–	–	–	
23	–	–	–	–	
24	1.455	1.522	1.446	1.48	
25	–	–	–	–	
26	–	–	–	–	
27	–	–	–	–	
28	–	–	–	–	
29	–	–	–	–	
30	–	–	–	–	
31					

Table 3-50 Piezometric Head Variation in the U1 plot with Time in relation to Canal Stage

Longitudinal Section

Khok Nai Leaching Test Plot , December '92

Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 4	U 1 Total Head P. No. 7	U 1 Total Head P. No. 8	Canal Stage	Remarks
1	–	–	–	1.095	
2	1.045	1.065	1.065	1.025	
3	–	–	–	–	
4	–	–	–	–	
5	–	–	–	–	
6	–	–	–	–	
7	–	–	–	–	
8	1.385	1.405	1.382	1.34	
9	1.407	1.428	1.395	1.42	
10	1.392	1.442	1.42	1.44	
11	1.438	1.49	1.47	1.47	
12	1.47	1.525	1.50	1.47	
13	1.507	1.525	1.505	1.47	
14	1.50	1.51	1.503	1.47	
15	1.472	1.483	1.48	1.43	
16	1.47	1.485	1.465	1.43	
17	1.17	1.185	1.22	1.12	
18	1.02	1.035	1.013	0.99	
19	0.89	0.925	0.90	0.87	
20	1.053	1.175	1.02	1.03	
21	1.17	1.19	1.14	1.14	
22	1.205	1.26	1.245	1.19	
23	1.19	1.18	1.285	1.17	
24	1.195	1.195	1.175	1.18	
25	1.295	1.22	1.47	1.24	
26	–	–	–	1.47	
27	–	–	–	1.45	
28	1.513	1.525	1.51	1.48	
29	1.52	1.525	1.53	1.51	
30	1.52	1.54	1.515	1.49	
31	1.43	1.445	1.42	1.40	

Table 3-51 Piezometric Head Variation in the U1 plot with Time in relation to Canal Stage

Longitudinal Section

Khok Nai Leaching Test Plot , January '93 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 4	U 1 Total Head P. No. 7	U 1 Total Head P. No. 8	Canal Stage	Remarks
1	1.235	1.22	1.24	1.21	
2	1.17	1.185	1.15	1.15	
3	1.08	1.10	1.07	1.06	
4	1.19	1.22	1.165	1.16	
5	1.21	1.285	1.15	1.25	
6	1.32	1.345	1.305	1.30	
7	1.365	1.37	1.36	1.34	
8	—	—	—	1.32	
9	1.315	1.34	1.32	1.30	
10	1.255	1.26	1.245	1.26	
11	1.15	1.16	1.143	1.12	
12	1.09	1.12	1.06	1.07	
13	1.02	1.025	1.005	1.06	
14	1.07	1.12	1.085	1.09	
15	1.033	1.03	1.01	0.95	
16	0.97	0.995	0.95	0.95	
17	0.92	0.957	0.92	0.92	
18	0.88	0.91	0.95	0.92	
19	0.92	0.935	1.15	0.93	
20	1.03	1.095	1.095	1.05	
21	1.08	1.075	1.05	1.05	
22	1.08	1.05	1.05	1.04	
23	1.06	1.105	1.08	1.07	
24	1.04	0.98	1.03	1.04	
25	0.98	0.40	0.97	0.96	
26	0.905	0.95	0.91	0.91	
27	0.995	1.03	0.98	0.98	
28	1.075	1.095	1.05	1.05	
29	—	—	—	—	
30	1.04	1.12	1.09	1.06	
31	1.125	1.15	1.115	1.10	

Table 3-52 Piezometric Head Variation in the U1 plot with Time in relation to Canal Stage

Longitudinal Section

Khok Nai Leaching Test Plot , February '93

Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 4	U 1 Total Head P. No. 7	U 1 Total Head P. No. 8	Canal Stage	Remarks
1	1.14	1.085	1.15	1.17	
2	1.37	1.26	1.26	1.25	
3	1.19	1.31	1.26	1.28	
4	1.195	1.34	1.315	1.30	
5	1.325	1.36	1.32	1.30	
6	—	—	—	—	
7	—	—	—	—	
8	1.39	1.41	1.385	1.37	
9	1.40	1.415	1.385	1.37	
10	0.985	1.015	1.02	0.95	
11	1.055	1.085	1.04	1.035	
12	1.11	1.14	1.105	1.10	
13	—	—	—	—	
14	—	—	—	—	
15	1.155	1.18	1.135	1.13	
16	1.13	1.11	1.07	1.06	
17	1.095	1.125	1.085	1.075	
18	0.985	1.015	0.995	0.96	
19	1.025	1.05	0.995	1.00	
20	—	—	—	—	
21	—	—	—	—	
22	1.10	1.12	1.08	1.08	
23	0.98	1.00	1.05	0.955	
24	1.00	1.035	1.02	0.98	
25	1.04	1.04	1.03	1.005	
26	1.07	1.088	1.035	1.04	
27	—	—	—	—	
28	—	—	—	—	
29					
30					
31					

Table 3-53 Piezometric Head Variation in the U1 plot with Time in relation to Canal Stage

Longitudinal Section

Khok Nai Leaching Test Plot , March '93 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 4	U 1 Total Head P. No. 7	U 1 Total Head P. No. 8	Canal Stage	Remarks
1	1.24	1.26	1.24	1.20	
2	1.24	1.27	1.24	1.21	
3	1.22	1.26	1.22	1.21	
4	1.16	1.18	1.15	1.14	
5	1.14	1.10	1.13	1.05	
6	—	—	—	—	
7	—	—	—	—	
8	1.10	1.08	1.02	1.03	
9	1.09	1.10	1.08	1.05	
10	1.08	1.11	1.08	1.06	
11	1.09	1.12	1.09	1.06	
12	1.07	1.10	1.07	1.05	
13	—	—	—	—	
14	—	—	—	—	
15	1.07	1.13	1.07	1.10	
16	1.18	1.33	1.18	1.28	
17	1.20	1.22	1.18	1.17	
18	1.15	1.18	1.08	1.12	
19	1.22	1.29	1.18	1.24	
20	—	—	—	—	
21	—	—	—	—	
22	1.40	1.42	1.41	1.38	
23	1.42	1.44	1.42	1.39	
24	1.41	1.44	1.41	1.38	
25	1.40	1.42	1.40	1.38	
26	1.39	1.41	1.39	1.36	
27	—	—	—	—	
28	—	—	—	—	
29	1.34	1.37	1.34	1.32	
30	1.29	1.35	1.33	1.30	
31	1.27	1.33	1.31	1.28	

Table 3-54 Piezometric Head Variation in the U1 plot with Time in relation to Canal Stage

Longitudinal Section

Khok Nai Leaching Test Plot , April '93 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 4	U 1 Total Head P. No. 7	U 1 Total Head P. No. 8	Canal Stage	Remarks
1	1.29	1.31	1.33	1.26	
2	1.29	1.29	1.25	1.23	
3	–	–	–	–	
4	–	–	–	–	
5	1.20	1.21	1.18	1.17	
6	1.17	1.20	1.16	1.14	
7	1.14	1.17	1.13	1.12	
8	1.11	1.13	1.07	1.10	
9	1.09	1.12	1.14	1.07	
10	–	–	–	–	
11	–	–	–	–	
12	1.20	1.22	1.24	1.17	
13	1.20	1.22	1.24	1.18	
14	1.25	1.26	1.27	1.27	
15	1.28	1.34	1.29	1.28	
16	1.27	1.36	1.35	1.35	
17	–	–	–	–	
18	–	–	–	–	
19	1.28	1.30	1.28	1.24	
20	1.16	1.18	1.15	1.12	
21	1.09	1.11	1.09	1.07	
22	1.00	1.02	1.00	0.97	
23	1.01	1.03	0.99	0.98	
24	–	–	–	–	
25	–	–	–	–	
26	0.99	1.02	0.97	0.97	
27	0.99	1.01	0.96	0.96	
28	0.98	1.00	0.95	0.95	
29	0.97	0.99	0.95	0.94	
30	0.95	0.98	0.92	0.92	
31					

Table 3-55 Piezometric Head Variation in the U1 plot with Time in relation to Canal Stage

Longitudinal Section

Khok Nai Leaching Test Plot , May '93 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 4	U 1 Total Head P. No. 7	U 1 Total Head P. No. 8	Canal Stage	Remarks
1	–	0.93	–	–	
2	–	0.90	–	–	
3	0.91	0.89	0.86	0.88	
4	0.89	0.88	0.83	0.86	
5	0.89	0.87	0.82	0.84	
6	0.88	0.88	0.80	0.83	
7	0.88	0.87	0.79	0.82	
8	–	–	–	–	
9	–	–	–	–	
10	0.81	0.83	0.73	0.79	
11	0.89	0.92	0.81	0.87	
12	0.99	1.01	0.92	0.96	
13	1.09	1.11	1.05	1.06	
14	1.18	1.21	1.15	1.15	
15	–	–	–	–	
16	–	–	–	–	
17	1.15	1.22	1.16	1.12	
18	1.22	1.27	1.31	1.28	
19	1.21	1.23	1.24	1.20	
20	1.28	1.27	1.24	1.22	
21	1.27	1.30	1.26	1.26	
22	–	–	–	–	
23	–	–	–	–	
24	1.15	1.17	1.12	1.12	
25	1.14	1.16	1.11	1.10	
26	1.14	1.17	1.11	1.11	
27	1.19	1.22	1.17	1.16	
28	1.19	1.21	1.17	1.16	
29	–	–	–	–	
30	–	–	–	–	
31	1.09	1.12	1.05	1.06	

Table 3-56 Piezometric Head Variation in the U1 plot with Time in relation to Canal Stage

Longitudinal Section

Khok Nai Leaching Test Plot , June '93 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 4	U 1 Total Head P. No. 7	U 1 Total Head P. No. 8	Canal Stage	Remarks
1	1.18	1.20	1.12	1.15	
2	1.19	1.21	1.15	1.14	
3	1.23	1.25	1.19	1.19	
4	1.23	1.29	1.19	1.24	
5	—	—	—	—	
6	—	—	—	—	
7	1.30	1.34	1.30	1.29	
8	1.34	1.36	1.36	1.33	
9	1.34	1.36	1.33	1.31	
10	1.30	1.36	1.31	1.30	
11	1.27	1.31	1.30	1.28	
12	—	—	—	—	
13	—	—	—	—	
14	1.44	1.46	1.39	1.40	
15	1.44	1.46	1.39	1.40	
16	1.40	1.34	1.31	1.28	
17	1.17	1.19	1.17	1.13	
18	1.06	1.08	1.06	1.03	
19	—	—	—	—	
20	—	1.13	—	—	
21	1.11	1.07	1.15	1.07	
22	1.04	0.95	1.08	1.03	
23	0.92	0.99	0.95	0.90	
24	0.94	1.14	0.98	0.93	
25	—	—	1.12	1.1	
26	—	—	—	—	
27	1.12	1.17	—	—	
28	1.14	1.12	1.16	1.12	
29	1.09	1.19	1.11	1.09	
30	1.16	1.19	1.15	1.13	
31					

Table 3-57 Piezometric Head Variation in the U1 plot with Time in relation to Canal Stage

Longitudinal Section

Khok Nai Leaching Test Plot , July '93 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 4	U 1 Total Head P. No. 7	U 1 Total Head P. No. 8	Canal Stage	Remarks
1	1.03	1.05	1.07	1.00	
2	1.06	1.06	1.09	1.06	
3	—	—	—	—	
4	—	—	—	—	
5	0.97	1.00	0.99	0.94	
6	0.97	1.04	0.98	0.99	
7	1.03	1.08	1.07	1.01	
8	—	—	—	0.95	
9	1.26	1.27	1.27	1.22	
10	—	—	—	—	
11	—	—	—	—	
12	1.30	1.17	1.13	1.10	
13	1.12	1.15	1.10	1.10	
14	1.09	1.09	1.05	1.13	
15	1.00	0.98	1.00	0.97	
16	1.03	1.06	1.02	1.04	
17	—	—	—	—	
18	—	—	—	—	
19	1.13	1.15	1.10	1.10	
20	1.13	1.16	1.11	1.10	
21	1.16	1.20	1.13	1.15	
22	1.23	1.25	1.19	1.21	
23	1.23	1.28	1.20	1.22	
24	—	—	—	—	
25	—	—	—	—	
26	1.29	1.32	1.30	1.28	
27	1.30	1.33	1.29	1.29	
28	1.34	1.35	1.32	1.31	
29	1.32	1.36	1.31	1.31	
30	1.33	1.36	1.35	1.30	
31	—	—	—	—	

Table 3-58 Piezometric Head Variation in the U1 plot with Time in relation to Canal Stage

Longitudinal Section

Khok Nai Leaching Test Plot , August '93 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 4	U 1 Total Head P. No. 7	U 1 Total Head P. No. 8	Canal Stage	Remarks
1	–	–	–	–	
2	1.29	1.33	1.33	1.28	
3	1.33	1.38	1.36	1.33	
4	1.33	1.38	1.33	1.33	
5	1.38	1.34	1.33	1.28	
6	1.31	1.15	1.17	1.10	
7	–	–	–	–	
8	–	–	–	–	
9	0.98	1.03	1.01	0.96	
10	0.87	0.87	0.99	0.85	
11	0.87	0.97	0.95	0.86	
12	0.88	0.91	0.91	0.86	
13	0.88	0.91	0.90	0.86	
14	–	–	–	–	
15	–	–	–	–	
16	0.86	0.90	0.82	0.86	
17	0.85	0.89	0.81	0.86	
18	0.85	0.87	0.88	0.86	
19	0.86	0.88	0.78	0.88	
20	0.96	0.88	0.95	0.88	
21	–	–	–	–	
22	–	–	–	–	
23	1.04	1.06	1.03	1.02	
24	1.05	1.04	1.03	1.03	
25	1.05	1.05	1.00	1.03	
26	1.05	1.08	1.04	1.05	
27	1.05	1.10	1.05	1.01	
28	–	–	–	–	
29	–	–	–	–	
30	1.26	1.28	1.27	1.22	
31	1.27	1.29	1.25	1.25	

Table 3-59 Piezometric Head Variation in the U1 plot with Time in Relation to Canal Stage

Cross Section

Khok Nai Leaching Test Plot , November '92 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 4	U 1 Total Head P. No. 5	U 1 Total Head P. No. 6	Canal Stage	Remarks
1	–	–	–	1.13	
2	–	–	–	–	
3	1.06	0.97	1.12	0.98	
4	0.89	0.79	0.90	0.795	
5	0.71	0.705	0.77	0.50	
6	0.635	0.63	0.76	0.55	
7	0.675	0.665	0.685	0.64	
8	0.73	0.745	0.74	0.73	
9	0.76	0.85	0.76	0.79	
10	0.825	0.86	0.79	0.80	
11	0.742	0.75	0.765	0.67	
12	1.14	1.21	1.17	1.17	
13	1.34	1.34	1.33	1.30	
14	1.22	1.225	1.225	1.18	
15	–	–	–	–	
16	1.31	1.315	1.22	1.29	
17	1.316	1.33	1.29	1.29	
18	–	–	–	1.36	
19	1.42	1.435	1.415	1.395	
20	1.44	1.45	1.445	1.405	
21	1.456	1.475	1.47	1.404	
22	–	–	–	–	
23	–	–	–	–	
24	1.455	1.491	1.461	1.48	
25	–	–	–	–	
26	–	–	–	–	
27	–	–	–	–	
28	–	–	–	–	
29	–	–	–	–	
30	–	–	–	–	
31					

Table 3-60 Piezometric Head Variation in the U1 plot with Time in Relation to Canal Stage

Cross Section

Khok Nai Leaching Test Plot , December '92 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 4	U 1 Total Head P. No. 5	U 1 Total Head P. No. 6	Canal Stage	Remarks
1	—	—	—	1.095	
2	1.045	1.08	1.16	1.025	
3	—	—	—	—	
4	—	—	—	—	
5	—	—	—	—	
6	—	—	—	—	
7	—	—	—	—	
8	1.385	1.46	1.445	1.34	
9	1.407	1.45	1.415	1.42	
10	1.392	1.475	1.43	1.44	
11	1.438	1.507	1.503	1.47	
12	1.47	1.513	1.51	1.47	
13	1.507	1.513	1.51	1.47	
14	1.50	1.513	1.51	1.47	
15	1.472	1.47	1.47	1.43	
16	1.47	1.473	1.47	1.43	
17	1.17	1.175	1.17	1.12	
18	1.02	1.022	1.02	0.99	
19	0.89	0.91	0.905	0.87	
20	1.053	0.965	1.065	1.03	
21	1.17	1.175	1.175	1.14	
22	1.205	1.21	1.21	1.19	
23	1.19	1.20	1.20	1.17	
24	1.195	1.20	1.20	1.18	
25	1.295	1.275	1.27	1.24	
26	—	—	—	1.47	
27	—	—	—	1.45	
28	1.513	1.515	1.515	1.48	
29	1.52	1.54	1.535	1.51	
30	1.52	1.525	1.535	1.49	
31	1.43	1.44	1.475	1.40	

Table 3-61 Piezometric Head Variation in the U1 plot with Time in Relation to Canal Stage

Cross Section

Khok Nai Leaching Test Plot , January '93 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 4	U 1 Total Head P. No. 5	U 1 Total Head P. No. 6	Canal Stage	Remarks
1	1.235	1.245	1.245	1.21	
2	1.17	1.17	1.17	1.15	
3	1.08	1.095	1.09	1.06	
4	1.19	1.20	1.18	1.16	
5	1.21	1.28	1.29	1.25	
6	1.32	1.33	1.33	1.30	
7	1.365	1.37	1.37	1.34	
8	—	—	—	1.32	
9	1.315	1.33	1.33	1.30	
10	1.255	1.25	1.25	1.26	
11	1.15	1.45	1.45	1.12	
12	1.09	1.095	1.16	1.07	
13	1.02	1.03	1.02	1.06	
14	1.07	1.11	1.11	1.09	
15	1.033	1.033	1.056	0.95	
16	0.97	0.98	0.98	0.95	
17	0.92	0.95	0.95	0.92	
18	0.88	0.955	0.92	0.92	
19	0.92	0.965	0.93	0.93	
20	1.03	1.09	1.06	1.05	
21	1.08	2.075	2.075	1.05	
22	1.08	1.065	1.065	1.04	
23	1.06	1.08	1.075	1.07	
24	1.04	1.04	1.025	1.04	
25	0.98	0.98	1.005	0.96	
26	0.905	0.935	0.97	0.91	
27	0.995	1.005	1.01	0.98	
28	1.075	1.08	1.08	1.05	
29	—	—	—	—	
30	1.04	1.095	1.09	1.06	
31	1.125	1.14	1.13	1.10	

Table 3-62 Piezometric Head Variation in the U1 plot with Time in Relation to Canal Stage

Cross Section

Khok Nai Leaching Test Plot , February '93 Positions of Strainers : z=0.380m

Date	U 1 Total Head P. No. 4	U 1 Total Head P. No. 5	U 1 Total Head P. No. 6	Canal Stage	Remarks
1	1.14	1.18	1.18	1.17	
2	1.37	1.36	1.215	1.25	
3	1.19	1.30	1.26	1.28	
4	1.195	1.33	1.27	1.30	
5	1.325	1.346	1.345	1.30	
6	–	–	–	–	
7	–	–	–	–	
8	1.39	1.39	1.385	1.37	
9	1.40	1.39	1.385	1.37	
10	0.985	1.00	0.99	0.95	
11	1.055	1.07	1.055	1.035	
12	1.11	1.12	1.12	1.10	
13	–	–	–	–	
14	–	–	–	–	
15	1.155	1.17	1.155	1.13	
16	1.13	1.09	1.08	1.06	
17	1.095	1.11	1.10	1.075	
18	0.985	1.00	0.99	0.96	
19	1.025	1.035	1.035	1.00	
20	–	–	–	–	
21	–	–	–	–	
22	1.10	1.105	1.105	1.08	
23	0.98	0.98	0.98	0.955	
24	1.00	1.02	1.01	0.98	
25	1.04	1.035	0.99	1.005	
26	1.07	1.07	1.07	1.04	
27	–	–	–	–	
28	–	–	–	–	
29					
30					
31					

Table 3-63 Tensiometer Head Variation in Relation to Precipitation, Irrigation and Evaporation

Location A at the Portion A of the U1 plot

Khok Nai Leaching Test Plot , November '92 Ground Surface Level : z=1.460m

Date	Pressure Head			Precipitation mm/day	Irrigation mm/day	Evaporation Muno mm/day	Remarks
	Depth : 10cm z= 1.510m	Depth : 30cm z= 1.310m	Depth : 60cm z= 1.010m				
1	- 1.36	- 0.204	- 0.272	—			
2	- 0.68	- 0.068	- 0.204	—		3.3	
3	- 0.544	- 0.136	- 0.272	—		1.9	
4	- 0.476	- 0.476	- 0.544	19.0		3.1	
5	0.00	0.00	0.00	13.2		0.9	
6	0.00	0.00	- 0.816	35.1		1.0	
7	0.00	0.00	- 0.748	20.4		1.0	
8	0.00	- 0.272	- 0.544	0		2.1	
9	0.00	- 0.68	- 0.68	29.0		4.9	
10	0.00	0.00	- 0.544	15.4		2.0	
11	0.00	0.00	- 0.68	3.7		3.7	
12	0.00	0.00	0.00	96.5		0.6	
13	0.00	0.00	- 0.136	22.0		0.3	
14	0.00	0.00	- 0.136	0		3.2	
15	—	—	—	—		3.8	
16	0.00	0.00	0.00	0		1.5	
17	0.00	0.00	0.00	0		0.2	
18	—	—	—	—		2.5	
19	0.00	0.00	0.00	16.4		1.8	
20	0.00	0.00	0.00	0		1.6	
21	0.00	0.00	0.00	0		2.1	
22	—	—	—	—		2.9	
23	—	—	—	—		0.2	
24	0.00	0.0	0.00	6.5		1.4	
25	—	—	—	—		3.1	
26	—	—	—	—		2.4	
27	—	—	—	—		3.4	
28	—	—	—	—		3.8	
29	—	—	—	—		3.6	
30	—	—	—	—		3.5	
31							

Table 3-64 Tensiometer Head Variation in Relation to Precipitation, Irrigation and Evaporation

Location A at the Portion A of the U1 plot

Khok Nai Leaching Test Plot , December '92 Ground Surface Level : z=1.460m

Date	Pressure Head			Precipitation mm/day	Irrigation mm/day	Evaporation Muno mm/day	Remarks
	Depth : 10cm z= 1.510m	Depth : 30cm z= 1.310m	Depth : 60cm z= 1.010m				
1	—	—	—	—		2.3	
2	- 0.544	- 0.408	- 0.408	3.2		2.4	
3	—	—	—	—		2.4	
4	—	—	—	—		1.2	
5	—	—	—	—		2.8	
6	—	—	—	—		2.1	
7	—	—	—	—		2.6	
8	0.00	0.00	0.00	9.0		2.5	
9	0.00	0.00	0.00	8.0		2.5	
10	0.00	0.00	0.00	4.0		0.8	
11	0.00	0.00	0.00	4.5		1.0	
12	0.00	0.00	0.00	2.4		3.0	
13	0.00	0.00	0.00	0		3.0	
14	0.00	0.00	0.00	0		3.9	
15	0.00	0.00	0.00	0		4.3	
16	0.00	0.00	0.00	0		4.6	
17	0.00	0.00	- 0.408	0.8		4.1	
18	0.00	- 0.408	- 0.544	0		4.4	
19	- 0.952	- 0.544	- 0.544	0		3.6	
20	- 1.36	- 0.68	- 0.544	0.3		2.2	
21	- 2.04	- 0.544	- 0.408	0		4.4	
22	- 0.544	- 0.272	- 0.408	7.9		2.2	
23	0.00	0.00	- 0.408	30.0		2.9	
24	0.00	- 0.136	- 0.408	10.5		1.1	
25	0.00	0.00	- 0.408	7.1		0.1	
26	—	—	—	71.5		4.2	
27	—	—	—	2.1		0.7	
28	0.00	0.00	0.00	1.0		2.5	
29	0.00	0.00	0.00	2.0		3.1	
30	0.00	0.00	0.00	9.0		3.3	
31	- 0.408	- 0.272	- 0.408	0		3.7	

Table 3-65 Tensiometer Head Variation in Relation to Precipitation, Irrigation and Evaporation

Location A at the Portion A of the U1 plot

Khok Nai Leaching Test Plot , January '93

Ground Surface Level : z=1.460m

Date	Pressure Head			Precipitation	Irrigation	Evaporation	Remarks
	Depth : 10cm z= 1.510m	Depth : 30cm z= 1.310m	Depth : 60cm z= 1.010m	mm/day	mm/day	Muno mm/day	
1	0.00	0.00	- 0.408	0.5		4.0	
2	- 0.408	- 0.272	- 0.408	0		6.0	
3	- 1.224	- 0.408	- 0.408	0		3.5	
4	- 1.088	- 0.408	- 0.408	0.6		2.5	
5				10.8		1.5	
6				0		3.9	
7				—		3.8	
8				6.4		5.1	
9				0		3.6	
10				0		3.4	
11				0		4.3	
12				0		4.0	
13				1.1		4.5	
14				3.6		2.0	
15				0.3		0.7	
16				0		3.8	
17				1.2		4.4	
18				11.3		5.4	
19				9.1		3.0	
20				5.8		5.0	
21				0		2.0	
22				3.8		4.9	
23				19.0		3.8	
24				0		2.7	
25				0		3.5	
26				0		3.5	
27				0		4.8	
28				2.4		4.4	
29				19.4		1.1	
30				9.8		2.1	
31				0		2.7	

Table 3-66 Tensiometer Head Variation in Relation to Precipitation, Irrigation and Evaporation

Location A at the Portion A of the U1 plot

Khok Nai Leaching Test Plot , February '93

Ground Surface Level : z=1.460m

Date	Pressure Head			Precipitation	Irrigation	Evaporation	Remarks
	Depth : 10cm z= 1.510m	Depth : 30cm z= 1.310m	Depth : 60cm z= 1.010m	mm/day	mm/day	Muno mm/day	
1	- 1.088	- 0.544	- 0.272	0		4.0	
2	- 1.224	- 0.136	- 0.272	18.1		4.0	
3	- 1.088	0.00	- 0.272	3.6		3.2	
4	- 1.088	0.00	- 0.136	0		1.7	
5	- 1.088	0.00	0.136	0		4.3	
6	—	—	—	—		5.5	
7	—	—	—	—		5.4	
8	- 1.088	0.00	- 0.136	0		5.9	
9	- 1.088	0.00	- 0.272	0		5.6	
10	- 1.36	- 0.544	- 0.408	0.2		6.4	
11	- 2.448	- 0.544	- 0.544	1.1		4.7	
12	- 3.944	- 0.408	0.408	0.1		4.7	
13	—	—	—	—		4.6	
14	—	—	—	—		4.3	
15	- 7.344	- 0.544	- 0.408	0		6.0	
16	- 7.344	- 0.544	- 0.408	0		4.6	
17	- 7.616	- 0.544	- 0.408	0		5.0	
18	- 7.344	- 0.952	- 0.544	0		5.4	
19	- 6.936	- 1.088	- 0.544	0		6.0	
20	—	—	—	—		4.9	
21	—	—	—	—		4.5	
22	- 7.616	- 1.088	- 0.544	0		4.7	
23	- 7.48	- 1.224	- 0.544	0		4.8	
24	- 6.664	- 1.224	- 0.544	0		7.2	
25	- 8.024	- 1.088	- 0.544	3.1		5.0	
26	- 6.80	- 1.088	- 0.544	0		3.9	
27	—	—	—	—		3.5	
28	—	—	—	—		5.1	
29							
30							
31							

Table 3-67 Tensiometer Head Variation in Relation to Precipitation, Irrigation and Evaporation

Location A at the Portion A of the U1 plot

Khok Nai Leaching Test Plot , March, '93 Ground Surface Level : z=1.460m

Date	Pressure Head			Precipitation mm/day	Irrigation mm/day	Evaporation Muno mm/day	Remarks
	Depth : 10cm z= 1.510m	Depth : 30cm z= 1.310m	Depth : 60cm z= 1.010m				
1	- 7.344	- 0.272	- 0.272	0.0			
2	- 5.984	- 0.272	- 0.408	0.6			
3	- 6.256	- 0.136	- 0.408	0.0			
4	- 6.936	- 0.272	- 0.408	0.0			
5	- 7.072	- 0.544	- 0.408	0.0			
6	—	—	—	—			
7	—	—	—	—			
8	- 0.952	0.00	- 0.544	7.3			
9	- 3.536	- 0.408	- 0.544	0.6			
10	- 4.896	- 0.544	- 0.544	0.6			
11	- 5.984	- 0.544	- 0.544	1.5			
12	- 4.352	- 0.544	- 0.544	5.2			
13	—	—	—	—			
14	—	—	—	—			
15	- 0.408	- 0.272	- 0.408	2.1			
16	0.00	- 0.00	- 0.272	36.4			
17	- 1.360	- 0.00	- 0.408	0.0			
18	- 1.496	- 0.272	- 0.408	7.8			
19	- 1.632	0.00	- 0.272	3.9			
20	—	—	—	—			
21	—	—	—	—			
22	0.00	0.00	- 0.272	0.0			
23	0.00	0.00	- 0.272	5.2			
24	0.00	0.00	- 0.136	0.0			
25	0.00	0.00	- 0.136	0.0			
26	0.00	0.00	- 0.136	0.0			
27	—	—	—	—			
28	—	—	—	—			
29	0.00	0.00	- 0.136	0.0			
30	0.00	0.00	- 0.272	0.0			
31	0.00	0.00	- 0.272	0.0			

Table 3-68 Tensiometer Head Variation in Relation to Precipitation, Irrigation and Evaporation

Location A at the Portion A of the U1 plot

Khok Nai Leaching Test Plot , April '93 Ground Surface Level : z=1.460m

Date	Pressure Head			Precipitation mm/day	Irrigation mm/day	Evaporation Muno mm/day	Remarks
	Depth : 10cm z= 1.510m	Depth : 30cm z= 1.310m	Depth : 60cm z= 1.010m				
1	0.0	0.0	- 0.272	0.0			
2	- 0.408	0.0	- 0.272	0.0			
3	—	—	—	—			
4	—	—	—	—			
5	- 0.816	0.0	- 0.408	0.0			
6	- 1.224	0.0	- 0.408	0.0			
7	- 1.224	- 0.136	- 0.408	0.0			
8	- 1.768	- 0.136	- 0.408	0.0			
9	- 2.040	- 0.272	- 0.408	0.0			
10	—	—	—	—			
11	—	—	—	—			
12	- 1.360	- 0.136	- 0.340	0.0			
13	- 0.680	- 0.136	- 0.408	3.5			
14	0.00	0.0	- 0.340	28.7			
15	0.00	0.0	- 0.272	0.0			
16	0.00	0.0	- 0.272	17.2			
17	—	—	—	—			
18	—	—	—	—			
19	- 0.408	0.0	- 0.272	0.0			
20	- 0.952	- 0.272	- 0.408	0.0			
21	- 1.904	- 0.272	- 0.408	0.0			
22	- 3.264	- 0.544	- 0.544	0.0			
23	- 3.672	- 0.544	- 0.544	0.0			
24	—	—	—	—			
25	—	—	—	—			
26	- 5.848	- 0.544	- 0.544	0.0			
27	- 5.576	- 0.680	- 0.544	0.0			
28	- 6.120	- 0.680	- 0.544	0.1			
29	- 6.120	- 0.680	- 0.544	0.0			
30	- 6.256	- 0.680	- 0.544	0.0			
31							

Table 3-69 Tensiometer Head Variation in Relation to Precipitation, Irrigation and Evaporation

Location A at the Portion A of the U1 plot

Khok Nai Leaching Test Plot , May '93 Ground Surface Level : z=1.460m

Date	Pressure Head			Precipitation mm/day	Irrigation mm/day	Evaporation Muno mm/day	Remarks
	Depth : 10cm z= 1.510m	Depth : 30cm z= 1.310m	Depth : 60cm z= 1.010m				
1	—	—	—	—			
2	—	—	—	—			
3	- 7.344	- 0.952	- 0.544	0.0			
4	- 7.000	- 1.224	- 0.544	0.0			
5	- 6.528	- 1.360	- 0.544	0.0			
6	- 7.072	- 1.496	- 0.680	0.0			
7	- 6.936	- 1.768	- 0.680	0.0			
8	—	—	—	—			
9	—	—	—	—			
10	- 7.480	- 2.584	- 0.680	0.0			
11	- 7.616	- 2.720	- 0.680	0.0			
12	- 7.752	- 2.992	- 0.680	0.0			
13	- 7.752	- 2.720	- 0.544	0.0			
14	- 7.480	- 2.312	- 0.408	0.0			
15	—	—	—				
16	—	—	—				
17	- 7.480	- 0.816	- 0.408	1.6			
18	- 1.496	0.0	- 0.272	45.4			
19	- 1.632	0.0	- 0.272	4.7			
20	- 0.816	0.0	- 0.272	4.3			
21	- 2.992	0.0	- 0.272	0.0			
22	—	—	—	—			
23	—	—	—	—			
24	- 6.392	- 0.272	- 0.408	0.0			
25	- 6.120	- 0.408	- 0.408	0.0			
26	- 6.310	- 0.408	- 0.408	0.0			
27	- 6.800	- 0.272	- 0.408	0.0			
28	- 6.800	- 0.272	- 0.408	0.1			
29	—	—	—	—			
30	—	—	—	—			
31	- 5.900	- 0.408	- 0.544	0.0			

Table 3-70 Tensiometer Head Variation in Relation to Precipitation, Irrigation and Evaporation

Location A at the Portion A of the U1 plot

Khok Nai Leaching Test Plot , June '93

Ground Surface Level : z=1.460m

Date	Pressure Head			Precipitation mm/day	Irrigation mm/day	Evaporation Muno mm/day	Remarks
	Depth : 10cm z= 1.510m	Depth : 30cm z= 1.310m	Depth : 60cm z= 1.010m				
1	- 5.984	- 0.408	- 0.408	—			
2	- 5.576	- 0.272	- 0.408	—			
3	- 5.576	- 0.272	- 0.408	0.85			
4	- 5.032	0.00	- 0.408	—			
5	—	—	—	—			
6	—	—	—	—			
7	- 2.856	0.00	- 0.272	2.2			
8	- 0.544	0.00	- 0.272	18.1			
9	- 1.36	0.00	- 0.272	—			
10	- 0.272	0.00	- 0.272	9.3			
11	- 0.952	0.00	- 0.272	1.4			
12	—	—	—	—			
13	—	—	—	—			
14	0.00	0.00	- 0.272	14.5			
15	0.00	0.00	- 0.136	0.1			
16	0.00	0.00	- 0.136	0.0			
17	- 0.408	- 0.136	- 0.272	0.0			
18	- 1.768	- 0.272	- 0.408	0.0			
19	—	—	—	—			
20	—	—	—	—			
21	- 2.448	- 0.272	- 0.408	0.0			
22	- 3.234	- 0.408	- 0.408	0.0			
23	- 4.216	- 0.544	- 0.544	0.0			
24	- 3.234	- 0.544	- 0.544	0.5			
25	- 1.36	- 0.272	- 0.408	13.9			
26	—	—	—	—			
27	—	—	—	—			
28	- 2.04	- 0.408	- 0.408	3.4			
29	- 1.36	- 0.272	- 0.408	5.0			
30	- 1.904	- 0.272	- 0.408	2.1			
31							

Table 3-71 Tensiometer Head Variation in Relation to Precipitation, Irrigation and Evaporation

Location A at the Portion A of the U1 plot

Khok Nai Leaching Test Plot , July '93

Ground Surface Level : z=1.460m

Date	Pressure Head			Precipitation mm/day	Irrigation mm/day	Evaporation Muno mm/day	Remarks
	Depth : 10cm z= 1.510m	Depth : 30cm z= 1.310m	Depth : 60cm z= 1.010m				
1	- 2.448	- 0.408	- 0.408	2.5			
2	- 3.400	- 0.544	- 0.544	7.5			
3	—	—	—	—			
4	—	—	—	—			
5	- 6.392	- 0.680	- 0.544	0.0			
6	- 2.448	- 0.408	- 0.544	6.0			
7	- 3.400	- 0.408	- 0.544	0.0			
8	—	—	—	11.0			
9	- 2.448	- 0.136	- 0.272	8.3			
10	—	—	—	—			
11	—	—	—	—			
12	- 5.440	- 0.272	- 0.408	0.8			
13	- 5.712	- 0.272	- 0.408	0.8			
14	- 4.760	- 0.408	- 0.544	0.0			
15	- 6.120	- 0.680	- 0.408	0.0			
16	- 4.216	- 0.408	—	3.3			
17	—	—	—	—			
18	—	—	- 0.408	—			
19	- 5.440	- 0.408	- 0.544	0.0			
20	- 5.440	- 0.544	- 0.272	0.0			
21	- 4.216	- 0.136	- 0.272	13.9			
22	- 1.496	0.00	- 0.272	3.6			
23	- 4.352	0.00	—	0.0			
24	—	—	—				
25	—	—	- 0.272				
26	0.0	0.00	- 0.136	114.8			
27	- 1.904	0.00	- 0.136	0.0			
28	- 2.448	0.00	0.00	0.0			
29	- 2.176	0.00	- 0.136	0.0			
30	- 2.040	0.00	—	0.0			
31	—	—	—	—			

Table 3-72 Tensiometer Head Variation in Relation to Precipitation, Irrigation and Evaporation

Location A at the Portion A of the U1 plot

Khok Nai Leaching Test Plot , August '93 Ground Surface Level : z=1.460m

Date	Pressure Head			Precipitation mm/day	Irrigation mm/day	Evaporation Muno mm/day	Remarks
	Depth : 10cm z= 1.510m	Depth : 30cm z= 1.310m	Depth : 60cm z= 1.010m				
1	—	—	—	—			
2	- 1.224	0.0	- 0.272	0.0			
3	- 0.272	0.0	- 0.136	18.8			
4	- 0.136	0.0	- 0.136	5.3			
5	- 1.088	0.0	- 0.136	0.0			
6	- 0.272	0.0	- 0.272	5.9			
7							
8		- 0.544					
9	- 3.536	- 0.680	- 0.544	0.5			
10	- 3.128	- 0.680	- 0.680	2.3			
11	- 2.856	- 0.680	- 0.680	0.0			
12	- 2.04	0.0	- 0.816	0.0			
13	- 4.21		- 0.680	0.0			
14							
15		- 1.088					
16	- 7.208	- 0.544	- 0.816	0.0			
17	- 5.984	- 1.088	- 0.68	0.0			
18	- 6.80	- 1.088	0.0	1.8			
19	- 3.40	- 0.68	0.0	0.5			
20	- 1.904		0.0	11.0			
21							
22							
23	- 0.272		- 0.68	3.2			
24	- 1.224		- 0.544				
25	- 3.944		- 0.272				
26	- 5.712		- 0.544	0.8			
27	0.00		- 0.544	5.5			
28							
29							
30	- 2.72		0.272	0.0			
31	- 2.312		0.136	2.3			

Table 3-73 Tensiometer Head Variation in Relation to Precipitation, Irrigation and Evaporation

Location B at the Portion B of the U1 plot

Khok Nai Leaching Test Plot , November '92 Ground Surface Level : z=1.460m

Date	Pressure Head			Precipitation	Irrigation	Evaporation	Remarks
	Depth : 10cm z= 1.510m	Depth : 30cm z= 1.310m	Depth : 60cm z= 1.010m	mm/day	mm/day	Muno mm/day	
1	- 1.36	- 0.68	- 0.408	—			
2	- 0.408	- 0.408	- 0.408	—		3.3	
3	- 0.136	- 0.408	- 0.476	—		1.9	
4	- 0.408	- 0.408	- 0.748	19.0		3.1	
5	0.00	0.00	- 0.068	13.2		0.9	
6	0.00	- 0.408	- 0.952	35.1		1.0	
7	0.00	- 0.272	- 0.816	20.4		1.0	
8	0.00	- 0.408	- 0.68	—		2.1	
9	0.00	- 0.408	- 0.68	29.0		4.9	
10	0.00	0.00	0.544	15.4		2.0	
11	0.00	- 0.272	- 0.68	3.7		3.7	
12	- 0.408	0.00	0.00	96.5		0.6	
13	0.00	- 0.136	- 0.272	22.0		0.3	
14	0.00	0.00	- 0.272	0		3.2	
15	—	—	—	—		3.8	
16	0.00	- 0.136	- 0.272	0		1.5	
17	0.00	- 0.136	- 0.272	0		0.2	
18	—	—	—	—		2.5	
19	0.00	0.00	- 0.136	16.4		1.8	
20	0.00	0.00	0.00	0		1.6	
21	0.00	0.00	0.00	0		2.1	
22	—	—	—	—		2.9	
23	—	—	—	—		0.2	
24	0.00	0.00	0.00	6.5		1.4	
25	—	—	—	—		3.1	
26	—	—	—	—		2.4	
27	—	—	—	—		3.4	
28	—	—	—	—		3.8	
29	—	—	—	—		3.6	
30	—	—	—	—		3.5	
31							