

7/10/85

RUN BY DJEY CHECKED BY

RIVER BASIN LC

COUNTY ~~DICKSON~~ Haywood

FOR THE PROJECT
HATCHIE

BACKGROUND CONDITIONS

CBOD(mg/l) 1.5
NH3-N(mg/l) .1
DO(mg/l) 6
TEMP(C) 30
FLOW(cfs) 238

SEGMENT BROWNSVILLE

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 0.700

SLOPE (ft/mi) OF SEGMENT 0.781

STREAM VELOCITY (fps) 1.000

TEMPERATURE USED IN THIS SEGMENT, 30.0 C

DISCHARGER FLOWRATE (cfs)/(MGD) 3.032 / 1.960

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 40.000 / 653.856
NH3-N (mg/l)/(lb/day) 15.000 / 245.196
DO (mg/l) 1.000

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
76.300	0.000	0.000	1.984	0.287	5.937	8.4
75.800	0.500	0.733	1.953	0.282	5.918	8.4
75.300	1.000	1.466	1.922	0.278	5.900	8.4
74.800	1.500	2.200	1.892	0.274	5.885	8.4
74.300	2.000	2.933	1.862	0.269	5.870	8.4
73.800	2.500	3.666	1.833	0.265	5.857	8.4
73.300	3.000	4.400	1.804	0.261	5.845	8.4
72.800	3.500	5.133	1.776	0.257	5.835	8.4
72.300	4.000	5.866	1.748	0.253	5.826	8.4
71.800	4.500	6.600	1.721	0.249	5.817	8.4
71.300	5.000	7.333	1.694	0.245	5.810	8.5
70.800	5.500	8.066	1.667	0.241	5.805	8.5
70.300	6.000	8.800	1.641	0.237	5.800	8.5
69.800	6.500	9.533	1.615	0.234	5.796	8.5

69.300	7.000	10.266	1.590	0.230	5.793	8.5
68.800	7.500	11.000	1.565	0.226	5.791	8.5
68.300	8.000	11.733	1.540	0.223	5.790	8.5
67.800	8.500	12.466	1.516	0.219	5.789	8.5
67.300	9.000	13.200	1.492	0.216	5.790	8.5
66.800	9.500	13.933	1.469	0.212	5.791	8.5
66.300	10.000	14.666	1.446	0.209	5.793	8.5
65.800	10.500	15.400	1.423	0.206	5.796	8.5
65.300	11.000	16.133	1.401	0.202	5.799	8.6
65.000	11.300	16.573	1.388	0.201	5.801	8.6