

09/25/84

RUN BY HVA CHECKED BY COUNTY HARDEMAN FOR THE PROJECT TOONE STP

RIVER BASIN HATCHIE

Summer

SEGMENT KILGORE CORP
PERMIT NO TN0000205
AUTOMATIC REMOVAL RATES USED
K2 (1/day) AT 20 C 3.600
SLOPE (ft/mi) OF SEGMENT 20.000

STREAM VELOCITY (fps) 0.100
TEMPERATURE USED IN THIS SEGMENT, 30.0 C
DISCHARGER FLOWRATE (cfs)/(MGD) 0.196 / 0.127

PROPOSED STANDARDS
CBOD (mg/l)/(lb/day) 10.000 / 10.591
NH3-N (mg/l)/(lb/day) 2.000 / 2.118
DO (mg/l) 6.000

Table with 7 columns: R.M., SEG.LEN., TIME, CBOD, TOTAL AMMONIA-N, TOXIC DO ABOVE, pH. Rows show data for miles 3.900 to 3.600.

SEGMENT PUGH CREEK
PERMIT NO
AUTOMATIC REMOVAL RATES USED
K2 (1/day) AT 20 C 2.760
SLOPE (ft/mi) OF SEGMENT 15.380

STREAM VELOCITY (fps) 0.100
TEMPERATURE USED IN THIS SEGMENT, 30.0 C

Table with 7 columns: R.M., SEG.LEN., TIME, CBOD, TOTAL AMMONIA-N, TOXIC DO ABOVE, pH. Rows show data for miles 3.600 to 3.400.

3.300	0.300	8.800	7.764	1.552	4.572	7.6
3.200	0.400	10.266	7.444	1.504	4.549	7.6
3.100	0.500	11.733	7.137	1.457	4.553	7.6

SEGMENT TOONE STP
 PERMIT NO
 AUTOMATIC REMOVAL RATES USED
 K2 (1/day) AT 20 C 2.760
 SLOPE (ft/mi) OF SEGMENT 15.380

STREAM VELOCITY (fps) 0.100
 TEMPERATURE USED IN THIS SEGMENT, 30.0 C
 DISCHARGER FLOWRATE (cfs)/(MGD) 0.046 / 0.030

PROPOSED STANDARDS
 CBOD (mg/l)/(lb/day) 30.000 / 7.506
 NH3-N (mg/l)/(lb/day) 15.000 / 3.753
 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	
3.100	0.000	11.733	11.505	4.045	3.874	7.1
3.000	0.100	13.199	11.030	3.919	3.474	7.2
2.900	0.200	14.666	10.575	3.797	3.193	7.2
2.800	0.300	16.133	10.138	3.679	3.006	7.2
2.700	0.400	17.599	9.720	3.564	2.893	7.2
2.600	0.500	19.066	9.318	3.453	2.840	7.2
2.500	0.600	20.533	8.934	3.346	2.833	7.2
2.400	0.700	22.000	8.565	3.242	2.861	7.2
2.300	0.800	23.466	8.211	3.141	2.917	7.3

SEGMENT MILLCREEK
 PERMIT NO
 AUTOMATIC REMOVAL RATES USED
 K2 (1/day) AT 20 C 2.160
 SLOPE (ft/mi) OF SEGMENT 12.000

STREAM VELOCITY (fps) 0.100
 TEMPERATURE USED IN THIS SEGMENT, 30.0 C

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU	
2.300	0.000	23.466	8.211	3.141	2.917	7.3
2.100	0.200	26.400	7.547	2.948	2.719	7.3
1.900	0.400	29.333	6.937	2.768	2.688	7.3
1.700	0.600	32.266	6.376	2.598	2.770	7.3
1.500	0.800	35.200	5.860	2.439	2.924	7.4
1.300	1.000	38.133	5.386	2.289	3.123	7.4

1.100	1.200	41.066	4.951	2.149	3.348	7.4
0.900	1.400	44.000	4.550	2.017	3.586	7.4
0.700	1.600	46.933	4.182	1.894	3.826	7.5
0.500	1.800	49.866	3.844	1.777	4.064	7.5
0.300	2.000	52.800	3.533	1.668	4.295	7.5
0.100	2.200	55.733	3.247	1.566	4.517	7.6
0.000	2.300	57.200	3.113	1.517	4.624	7.6

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Summer

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TOONE STP

SEGMENT KILGORE CORP
PERMIT NO TN0000205
AUTOMATIC REMOVAL RATES USED
K2 (1/day) AT 20 C 3.600
SLOPE (ft/mi) OF SEGMENT 20.000

STREAM VELOCITY (fps) 0.100
TEMPERATURE USED IN THIS SEGMENT, 30.0 C
DISCHARGER FLOWRATE (cfs)/(MGD) 0.196 / 0.127

PROPOSED STANDARDS
CBOD (mg/l)/(lb/day) 10.000 / 10.591
NH3-N (mg/l)/(lb/day) 2.000 / 2.118
DO (mg/l) 6.000

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
3.900	0.000	0.000	10.000	2.000	6.000	7.5
3.800	0.100	1.466	9.587	1.897	5.480	7.5
3.700	0.200	2.933	9.191	1.799	5.129	7.5
3.600	0.300	4.400	8.811	1.707	4.903	7.5

SEGMENT PUGH CREEK
PERMIT NO
AUTOMATIC REMOVAL RATES USED
K2 (1/day) AT 20 C 2.760
SLOPE (ft/mi) OF SEGMENT 15.380

STREAM VELOCITY (fps) 0.100
TEMPERATURE USED IN THIS SEGMENT, 30.0 C

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
3.600	0.000	4.400	8.811	1.707	4.903	7.5
3.500	0.100	5.866	8.448	1.654	4.739	7.5
3.400	0.200	7.333	8.099	1.602	4.632	7.6

3.300	0.300	8.800	7.764	1.552	4.572	7.6
3.200	0.400	10.266	7.444	1.504	4.549	7.6
3.100	0.500	11.733	7.137	1.457	4.553	7.6

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 PERMIT NO
 AUTOMATIC REMOVAL RATES USED
 K2 (1/day) AT 20 C 2.760
 SLOPE (ft/mi) OF SEGMENT 15.380

STREAM VELOCITY (fps) 0.100
 TEMPERATURE USED IN THIS SEGMENT, 30.0 C
 DISCHARGER FLOWRATE (cfs)/(MGD) 0.046 / 0.030

PROPOSED STANDARDS
 CBOD (mg/l)/(lb/day) 10.000 / 2.502
 NH3-N (mg/l)/(lb/day) 5.000 / 1.251
 DO (mg/l) 6.000

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU	
3.100	0.000	11.733	7.684	2.134	4.829	7.4
3.000	0.100	13.199	7.366	2.068	4.690	7.4
2.900	0.200	14.666	7.062	2.003	4.603	7.5
2.800	0.300	16.133	6.771	1.941	4.558	7.5
2.700	0.400	17.599	6.491	1.881	4.545	7.5
2.600	0.500	19.066	6.223	1.822	4.558	7.5
2.500	0.600	20.533	5.966	1.765	4.590	7.5
2.400	0.700	22.000	5.720	1.710	4.637	7.5
2.300	0.800	23.466	5.484	1.657	4.696	7.5

SEGMENT MILLCREEK
 PERMIT NO
 AUTOMATIC REMOVAL RATES USED
 K2 (1/day) AT 20 C 2.160
 SLOPE (ft/mi) OF SEGMENT 12.000

STREAM VELOCITY (fps) 0.100
 TEMPERATURE USED IN THIS SEGMENT, 30.0 C

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU	
2.300	0.000	23.466	5.484	1.657	4.696	7.5
2.100	0.200	26.400	5.040	1.555	4.606	7.6
1.900	0.400	29.333	4.633	1.460	4.610	7.6
1.700	0.600	32.266	4.258	1.371	4.676	7.6
1.500	0.800	35.200	3.914	1.287	4.782	7.7
1.300	1.000	38.133	3.597	1.208	4.912	7.7

1.100	1.200	41.066	3.306	1.134	5.056	7.7
0.900	1.400	44.000	3.039	1.064	5.205	7.7
0.700	1.600	46.933	2.793	0.999	5.355	7.8
0.500	1.800	49.866	2.567	0.938	5.502	7.8
0.300	2.000	52.800	2.359	0.880	5.645	7.8
0.100	2.200	55.733	2.169	0.826	5.781	7.9
0.000	2.300	57.200	2.079	0.800	5.847	7.9

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TEMPERATURE USED IN THIS SEGMENT, 30.0 C
DISCHARGER FLOWRATE (cfs)/(MGD) 0.196 / 0.127

PROPOSED STANDARDS
CBOD (mg/l)/(lb/day) 10.000 / 10.591
NH3-N (mg/l)/(lb/day) 2.000 / 2.118
DO (mg/l) 6.000

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
3.900	0.000	0.000	10.000	2.000	6.000	7.5
3.800	0.100	1.466	9.587	1.897	5.480	7.5
3.700	0.200	2.933	9.191	1.799	5.129	7.5
3.600	0.300	4.400	8.811	1.707	4.903	7.5

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PERMIT NO
AUTOMATIC REMOVAL RATES USED
K2 (1/day) AT 20 C 2.760
SLOPE (ft/mi) OF SEGMENT 15.380

STREAM VELOCITY (fps) 0.100
TEMPERATURE USED IN THIS SEGMENT, 30.0 C

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
3.600	0.000	4.400	8.811	1.707	4.903	7.5
3.500	0.100	5.866	8.448	1.654	4.739	7.5
3.400	0.200	7.333	8.099	1.602	4.632	7.6

3.300	0.300	8.800	7.764	1.552	4.572	7.6
3.200	0.400	10.266	7.444	1.504	4.549	7.6
3.100	0.500	11.733	7.137	1.457	4.553	7.6

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PROPOSED STANDARDS
 CBOD (mg/l)/(lb/day) 10.000 / 2.502
 NH3-N (mg/l)/(lb/day) 2.000 / 0.500
 DO (mg/l) 6.000

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
3.100	0.000	11.733	7.684	1.561	4.829 7.6
3.000	0.100	13.199	7.366	1.512	4.760 7.6
2.900	0.200	14.666	7.062	1.465	4.727 7.6
2.800	0.300	16.133	6.771	1.420	4.723 7.6
2.700	0.400	17.599	6.491	1.375	4.742 7.6
2.600	0.500	19.066	6.223	1.333	4.778 7.6
2.500	0.600	20.533	5.966	1.291	4.827 7.6
2.400	0.700	22.000	5.720	1.251	4.886 7.7
2.300	0.800	23.466	5.484	1.212	4.952 7.7

SEGMENT MILLCREEK
 PERMIT NO
 AUTOMATIC REMOVAL RATES USED
 K2 (1/day) AT 20 C 2.160
 SLOPE (ft/mi) OF SEGMENT 12.000

STREAM VELOCITY (fps) 0.100
 TEMPERATURE USED IN THIS SEGMENT, 30.0 C

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
2.300	0.000	23.466	5.484	1.212	4.952 7.7
2.100	0.200	26.400	5.040	1.138	4.889 7.7
1.900	0.400	29.333	4.633	1.068	4.907 7.7
1.700	0.600	32.266	4.258	1.002	4.977 7.8
1.500	0.800	35.200	3.914	0.941	5.080 7.8
1.300	1.000	38.133	3.597	0.883	5.204 7.8

1.100	1.200	41.066	3.306	0.829	5.337	7.9
0.900	1.400	44.000	3.039	0.778	5.475	7.9
0.700	1.600	46.933	2.793	0.731	5.613	7.9
0.500	1.800	49.866	2.567	0.686	5.747	7.9
0.300	2.000	52.800	2.359	0.644	5.877	8.0
0.100	2.200	55.733	2.169	0.604	6.000	8.0
0.000	2.300	57.200	2.079	0.585	6.059	8.0

02/25/84

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TOONE STP

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Winter

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K2 (1/day) AT 20 C 3.600
SLOPE (ft/mi) OF SEGMENT 20.000

STREAM VELOCITY (fps) 0.100
TEMPERATURE USED IN THIS SEGMENT, 20.0 C
DISCHARGER FLOWRATE (cfs)/(MGD) 0.196 / 0.127

PROPOSED STANDARDS
CBOD (mg/l)/(lb/day) 10.000 / 10.591
NH3-N (mg/l)/(lb/day) 5.000 / 5.295
DO (mg/l) 6.000

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
3.900	0.000	0.000	10.000	5.000	6.000	7.4
3.800	0.100	1.466	9.758	4.849	5.715	7.4
3.700	0.200	2.933	9.522	4.703	5.511	7.4
3.600	0.300	4.400	9.292	4.561	5.373	7.4

SEGMENT PUGH CREEK
PERMIT NO
AUTOMATIC REMOVAL RATES USED
K2 (1/day) AT 20 C 2.760
SLOPE (ft/mi) OF SEGMENT 15.380

STREAM VELOCITY (fps) 0.100
TEMPERATURE USED IN THIS SEGMENT, 20.0 C

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
3.600	0.000	4.400	9.292	4.561	5.373	7.4
3.500	0.100	5.866	9.068	4.479	5.321	7.4
3.400	0.200	7.333	8.849	4.397	5.291	7.4

3.300	0.300	8.800	8.635	4.317	5.279	7.4
3.200	0.400	10.266	8.426	4.239	5.281	7.4
3.100	0.500	11.733	8.223	4.162	5.296	7.4

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 DO (mg/l) 6.000

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU	
3.100	0.000	11.733	8.562	5.277	5.431	7.3
3.000	0.100	13.199	8.356	5.181	5.342	7.3
2.900	0.200	14.666	8.154	5.087	5.282	7.3
2.800	0.300	16.133	7.957	4.995	5.244	7.4
2.700	0.400	17.599	7.765	4.904	5.226	7.4
2.600	0.500	19.066	7.577	4.815	5.223	7.4
2.500	0.600	20.533	7.394	4.727	5.234	7.4
2.400	0.700	22.000	7.215	4.641	5.255	7.4
2.300	0.800	23.466	7.041	4.557	5.285	7.4

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 PERMIT NO
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 K2 (1/day) AT 20 C 2.160
 SLOPE (ft/mi) OF SEGMENT 12.000

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 TEMPERATURE USED IN THIS SEGMENT, 20.0 C

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU	
2.300	0.000	23.466	7.041	4.557	5.285	7.4
2.100	0.200	26.400	6.705	4.393	5.118	7.4
1.900	0.400	29.333	6.385	4.235	5.034	7.4
1.700	0.600	32.266	6.080	4.082	5.011	7.4
1.500	0.800	35.200	5.790	3.935	5.033	7.5
1.300	1.000	38.133	5.514	3.794	5.088	7.5

1.100	1.200	41.066	5.251	3.657	5.168	7.5
0.900	1.400	44.000	5.000	3.525	5.264	7.5
0.700	1.600	46.933	4.761	3.398	5.372	7.5
0.500	1.800	49.866	4.534	3.276	5.487	7.5
0.300	2.000	52.800	4.318	3.158	5.606	7.6
0.100	2.200	55.733	4.112	3.044	5.727	7.6
0.000	2.300	57.200	4.012	2.989	5.788	7.6

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K2 (1/day) AT 20 C 3.600
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DO (mg/l) 6.000

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
3.900	0.000	0.000	10.000	5.000	6.000	7.4
3.800	0.100	1.466	9.758	4.849	5.715	7.4
3.700	0.200	2.933	9.522	4.703	5.511	7.4
3.600	0.300	4.400	9.292	4.561	5.373	7.4

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PERMIT NO
AUTOMATIC REMOVAL RATES USED
K2 (1/day) AT 20 C 2.760
SLOPE (ft/mi) OF SEGMENT 15.380

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TEMPERATURE USED IN THIS SEGMENT, 20.0 C

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
3.600	0.000	4.400	9.292	4.561	5.373	7.4
3.500	0.100	5.866	9.068	4.479	5.321	7.4
3.400	0.200	7.333	8.849	4.397	5.291	7.4

3.300	0.300	8.800	8.635	4.317	5.279	7.4
3.200	0.400	10.266	8.426	4.239	5.281	7.4
3.100	0.500	11.733	8.223	4.162	5.296	7.4

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PROPOSED STANDARDS
 CBOD (mg/l)/(lb/day) 10.000 / 2.502
 NH3-N (mg/l)/(lb/day) 15.000 / 3.753
 DO (mg/l) 6.000

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
3.100	0.000	11.733	8.562	6.233	5.431	7.3
3.000	0.100	13.199	8.356	6.119	5.273	7.3
2.900	0.200	14.666	8.154	6.008	5.156	7.3
2.800	0.300	16.133	7.957	5.899	5.071	7.3
2.700	0.400	17.599	7.765	5.792	5.014	7.3
2.600	0.500	19.066	7.577	5.687	4.980	7.3
2.500	0.600	20.533	7.394	5.583	4.965	7.3
2.400	0.700	22.000	7.215	5.482	4.966	7.3
2.300	0.800	23.466	7.041	5.382	4.980	7.3

SEGMENT MILLCREEK
 PERMIT NO
 AUTOMATIC REMOVAL RATES USED
 K2 (1/day) AT 20 C 2.160
 SLOPE (ft/mi) OF SEGMENT 12.000

STREAM VELOCITY (fps) 0.100
 TEMPERATURE USED IN THIS SEGMENT, 20.0 C

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
2.300	0.000	23.466	7.041	5.382	4.980	7.3
2.100	0.200	26.400	6.705	5.188	4.771	7.3
1.900	0.400	29.333	6.385	5.002	4.658	7.4
1.700	0.600	32.266	6.080	4.821	4.617	7.4
1.500	0.800	35.200	5.790	4.648	4.630	7.4
1.300	1.000	38.133	5.514	4.480	4.681	7.4

1.100	1.200	41.066	5.251	4.319	4.761	7.4
0.900	1.400	44.000	5.000	4.163	4.861	7.4
0.700	1.600	46.933	4.761	4.014	4.975	7.5
0.500	1.800	49.866	4.534	3.869	5.098	7.5
0.300	2.000	52.800	4.318	3.730	5.226	7.5
0.100	2.200	55.733	4.112	3.595	5.357	7.5
0.000	2.300	57.200	4.012	3.530	5.424	7.5