

H<sub>1</sub>

1/15/86

RUN BY DJEY CHECKED BY  
FOR THE PROJECT  
HENNING

RIVER BASIN COUNTY

BACKGROUND CONDITIONS

CBOD(mg/l) 1.5  
NH3-N(mg/l) .1  
DO(mg/l) 6  
TEMP(C) 30  
FLOW(cfs) .16

*dil rat @ 0.1 = 10.3*  
*dil rat @ 0.4 = 10.3*

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 2.520

SLOPE (ft/mi) OF SEGMENT 14.000

STREAM VELOCITY (fps) 0.100

DISCHARGER FLOWRATE (cfs)/(MGD) 0.015 / 0.010

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 40.000 / 3.336

NH3-N (mg/l)/(lb/day) 15.000 / 1.251

DO (mg/l) 1.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
5.000	0.000	0.000	4.894	1.413	5.559 7.6
4.500	0.500	7.333	4.178	1.206	5.636 7.7
4.000	1.000	14.666	3.567	1.030	5.846 7.8
3.500	1.500	22.000	3.045	0.879	6.081 7.8
3.000	2.000	29.333	2.600	0.751	6.301 7.9

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 0.600

SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 0.100

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
3.000	0.000	29.333	2.600	0.751	6.301 7.9
2.500	0.500	36.666	2.220	0.641	5.655 8.0
2.000	1.000	44.000	1.895	0.547	5.280 8.0

1.500, 1,500 51.333 1.618 0.467 5.098 8.1

H<sub>2</sub>

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 2.052

SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 1.371

DISCHARGER FLOWRATE (cfs)/(MGD) ##.### / 195.000

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 1.500 / ###.###

NH3-N (mg/l)/(lb/day) 0.100 / 162.630

DO (mg/l) 6.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
1.500	0.000	51.333	1.500	0.100	5.999	9.0 +
1.000	0.500	51.867	1.482	0.099	6.063	9.0 +
0.500	1.000	52.402	1.465	0.097	6.125	9.0 +
0.000	1.500	52.937	1.449	0.096	6.183	9.0 +

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1/15/86

RUN BY DJEY CHECKED BY  
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HENNING

RIVER BASIN COUNTY

H3

BACKGROUND CONDITIONS

CBOD (mg/l) 1.5  
NH3-N (mg/l) .1  
DO (mg/l) 6  
TEMP (C) 30  
FLOW (cfs) .31

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 2.520

SLOPE (ft/mi) OF SEGMENT 14.000

STREAM VELOCITY (fps) 0.100

DISCHARGER FLOWRATE (cfs)/(MGD) 0.030 / 0.020

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 40.000 / 6.672

NH3-N (mg/l)/(lb/day) 15.000 / 2.502

DO (mg/l) 1.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
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MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
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5.000	0.000	0.000	4.993	1.452	5.546 7.6
4.500	0.500	7.333	4.263	1.239	5.602 7.7
4.000	1.000	14.666	3.640	1.058	5.809 7.7
3.500	1.500	22.000	3.107	0.903	6.045 7.8
3.000	2.000	29.333	2.653	0.771	6.270 7.9

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 0.600

SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 0.100

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
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MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
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3.000	0.000	29.333	2.653	0.771	6.270 7.9
2.500	0.500	36.666	2.265	0.658	5.609 8.0
2.000	1.000	44.000	1.933	0.562	5.224 8.0

1.500 1.500 51.333 1.651 0.480 5.038 8.1

H<sub>4</sub>

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 2.052

SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 1.372

DISCHARGER FLOWRATE (cfs)/(MGD) ##.### / 195.000

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 1.500 / ###.###

NH3-N (mg/l)/(lb/day) 0.100 / 162.630

DO (mg/l) 6.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
1.500	0.000	51.333	1.500	0.100	5.998	9.0 +
1.000	0.500	51.867	1.482	0.099	6.063	9.0 +
0.500	1.000	52.402	1.465	0.098	6.124	9.0 +
0.000	1.500	52.936	1.449	0.097	6.182	9.0 +

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Hs

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HENNING

BACKGROUND CONDITIONS

CBOD(mg/l) 1.5  
NH3-N(mg/l) .1  
DO(mg/l) 6  
TEMP(C) 30  
FLOW(cfs) .76

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 2.520  
SLOPE (ft/mi) OF SEGMENT 14.000

STREAM VELOCITY (fps) 0.100  
DISCHARGER FLOWRATE (cfs)/(MGD) 0.077 / 0.050

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 40.000 / 16.680  
NH3-N (mg/l)/(lb/day) 15.000 / 6.255  
DO (mg/l) 1.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
5.000	0.000	0.000	5.056	1.476	5.538 7.6
4.500	0.500	7.333	4.316	1.260	5.580 7.7
4.000	1.000	14.666	3.685	1.076	5.785 7.7
3.500	1.500	22.000	3.146	0.918	6.023 7.8
3.000	2.000	29.333	2.686	0.784	6.250 7.9

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 0.600  
SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 0.100

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
3.000	0.000	29.333	2.686	0.784	6.250 7.9
2.500	0.500	36.666	2.293	0.669	5.579 8.0
2.000	1.000	44.000	1.958	0.571	5.189 8.0

1.500 , 1.500 51.333 1.671 0.488 5.000 8.1

H6

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 2.054

SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 1.373

DISCHARGER FLOWRATE (cfs)/(MGD) ##.### / 195.000

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 1.500 / ###.###

NH3-N (mg/l)/(lb/day) 0.100 / 162.630

DO (mg/l) 6.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
1.500	0.000	51.333	1.500	0.101	5.997	9.0 +
1.000	0.500	51.867	1.483	0.099	6.061	9.0 +
0.500	1.000	52.401	1.466	0.098	6.122	9.0 +
0.000	1.500	52.935	1.449	0.097	6.181	9.0 +

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RIVER BASIN COUNTY

BACKGROUND CONDITIONS

CBOD (mg/l) 1.5  
NH3-N (mg/l) .1  
DO (mg/l) 6  
TEMP (C) 30  
FLOW (cfs) 1.6

*dil rat* -  $\frac{1.6}{0.1 \times 1.547} = 10.3$

SEGMENT

PERMIT NO  
AUTOMATIC REMOVAL RATES USED  
K2 (1/day) AT 20 C 2.663  
SLOPE (ft/mi) OF SEGMENT 14.000

STREAM VELOCITY (fps) 0.105  
DISCHARGER FLOWRATE (cfs)/(MGD) 0.154 / 0.100

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 40.000 / 33.360  
NH3-N (mg/l)/(lb/day) 15.000 / 12.510  
DO (mg/l) 1.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
5.000	0.000	0.000	4.894	1.413	5.559 7.6
4.500	0.500	6.939	4.214	1.217	5.697 7.7
4.000	1.000	13.878	3.628	1.048	5.913 7.7
3.500	1.500	20.817	3.124	0.902	6.136 7.8
3.000	2.000	27.756	2.690	0.777	6.341 7.9

SEGMENT

PERMIT NO  
AUTOMATIC REMOVAL RATES USED  
K2 (1/day) AT 20 C 0.600  
SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 0.100

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
3.000	0.000	27.756	2.690	0.777	6.341 7.9
2.500	0.500	35.089	2.296	0.663	5.655 8.0
2.000	1.000	42.423	1.960	0.566	5.252 8.0

1.500 1.500 49.756 1.674 0.483 5.052 8.1

H8

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 2.056

SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 1.374

DISCHARGER FLOWRATE (cfs)/(MGD) ##.### / 195.000

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 1.500 / ###.###

NH3-N (mg/l)/(lb/day) 0.100 / 162.630

DO (mg/l) 6.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
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MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
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1.500	0.000	49.756	1.501	0.102	5.994 9.0 +
1.000	0.500	50.289	1.483	0.101	6.059 9.0 +
0.500	1.000	50.823	1.466	0.099	6.120 9.0 +
0.000	1.500	51.356	1.450	0.098	6.178 9.0 +



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BACKGROUND CONDITIONS

CBOD (mg/l) 1.5  
NH3-N (mg/l) .1  
DO (mg/l) 6  
TEMP (C) 30  
FLOW (cfs) 4

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 5.994  
SLOPE (ft/mi) OF SEGMENT 14.000

STREAM VELOCITY (fps) 0.237  
DISCHARGER FLOWRATE (cfs)/(MGD) 0.309 / 0.200

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 40.000 / 66.720  
NH3-N (mg/l)/(lb/day) 15.000 / 25.020  
DO (mg/l) 1.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
5.000	0.000	0.000	4.264	1.169	5.641 7.7
4.500	0.500	3.082	3.989	1.094	6.440 7.7
4.000	1.000	6.165	3.733	1.024	6.771 7.8
3.500	1.500	9.248	3.493	0.958	6.924 7.8
3.000	2.000	12.331	3.268	0.896	7.008 7.8

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 0.600  
SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 0.100

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
3.000	0.000	12.331	3.268	0.896	7.008 7.8
2.500	0.500	19.664	2.790	0.765	6.003 7.9
2.000	1.000	26.997	2.382	0.653	5.374 8.0

1.500 1.500 34.331 2.034 0.558 5.018 8.0

H<sub>10</sub>

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 2.064

SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 1.380

DISCHARGER FLOWRATE (cfs)/(MGD) ##.### / 195.000

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 1.500 / ###.###

NH3-N (mg/l)/(lb/day) 0.100 / 162.630

DO (mg/l) 6.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
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MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
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1.500	0.000	34.331	1.507	0.106	5.986	9.0 +
1.000	0.500	34.862	1.490	0.105	6.051	9.0 +
0.500	1.000	35.393	1.473	0.104	6.112	9.0 +
0.000	1.500	35.925	1.456	0.102	6.171	9.0 +

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H11

RUN BY DJEY CHECKED BY  
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RIVER BASIN COUNTY

BACKGROUND CONDITIONS

CBOD (mg/l) 1.5  
NH3-N (mg/l) .1  
DO (mg/l) 6  
TEMP (C) 30  
FLOW (cfs) 7.6

0.2 4.0  
0.4 6.4  
0.5 7.6  
 $\frac{6.4}{0.4 \times 1.54} = 10.3$   
 $\frac{7.6}{3} \times 3.6 = 2.4$

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 9.353

SLOPE (ft/mi) OF SEGMENT 14.000

STREAM VELOCITY (fps) 0.371

DISCHARGER FLOWRATE (cfs)/(MGD) 0.773 / 0.500

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 40.000 / 166.800

NH3-N (mg/l)/(lb/day) 15.000 / 62.550

DO (mg/l) 1.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
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MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
5.000	0.000	0.000	5.056	1.476	5.538 7.6
4.500	0.500	1.975	4.845	1.414	6.498 7.6
4.000	1.000	3.951	4.643	1.355	6.875 7.6
3.500	1.500	5.927	4.449	1.299	7.032 7.6
3.000	2.000	7.903	4.264	1.245	7.106 7.7

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 0.600

SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 0.174

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
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MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
3.000	0.000	7.903	4.264	1.245	7.106 7.7
2.500	0.500	12.102	3.895	1.137	6.222 7.7
2.000	1.000	16.301	3.558	1.038	5.531 7.7

1.500 1.500 20.500 3.250 0.948 5.002 7.8

H<sub>12</sub>

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 2.077

SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 1.388

DISCHARGER FLOWRATE (cfs)/(MGD) ##.### / 195.000

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 1.500 / ###.###

NH3-N (mg/l)/(lb/day) 0.100 / 162.630

DO (mg/l) 6.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
------	----------	------	------	-----------------	----------------	----

MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
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1.500	0.000	20.500	1.547	0.122	5.973	8.9
1.000	0.500	21.028	1.529	0.121	6.037	8.9
0.500	1.000	21.556	1.512	0.120	6.098	8.9
0.000	1.500	22.084	1.495	0.118	6.156	8.9

1/15/86

RUN BY DJEY CHECKED BY  
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RIVER BASIN COUNTY

H13

BACKGROUND CONDITIONS

CBOD(mg/l) 1.5  
NH3-N(mg/l) .1  
DO(mg/l) 6  
TEMP(C) 30  
FLOW(cfs) 13

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 9.324

SLOPE (ft/mi) OF SEGMENT 14.000

STREAM VELOCITY (fps) 0.512

DISCHARGER FLOWRATE (cfs)/(MGD) 1.547 / 1.000

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 40.000 / 333.600

NH3-N (mg/l)/(lb/day) 15.000 / 125.100

DO (mg/l) 1.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
5.000	0.000	0.000	5.594	1.684	5.468 7.5
4.500	0.500	1.431	5.368	1.633	6.183 7.5
4.000	1.000	2.862	5.152	1.583	6.551 7.6
3.500	1.500	4.293	4.944	1.535	6.747 7.6
3.000	2.000	5.725	4.745	1.488	6.857 7.6

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 0.600

SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 0.267

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
3.000	0.000	5.725	4.745	1.488	6.857 7.6
2.500	0.500	8.469	4.472	1.403	6.179 7.6
2.000	1.000	11.212	4.215	1.322	5.600 7.6

1.500 1.500 13.956 3.973 1.246 5.110 7.7

H14

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 2.096

SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 1.401

DISCHARGER FLOWRATE (cfs)/(MGD) ##.### / 195.000

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 1.500 / ###.###

NH3-N (mg/l)/(lb/day) 0.100 / 162.630

DO (mg/l) 6.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
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MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
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1.500	0.000	13.956	1.613	0.152	5.959	8.7
1.000	0.500	14.480	1.595	0.151	6.022	8.7
0.500	1.000	15.003	1.577	0.149	6.081	8.7
0.000	1.500	15.526	1.560	0.147	6.138	8.8

1/15/86

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HENNING

RIVER BASIN COUNTY

His

BACKGROUND CONDITIONS

CBOD (mg/l) 1.5  
NH3-N (mg/l) .1  
DO (mg/l) 6  
TEMP (C) 30  
FLOW (cfs) 21

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 12.224  
SLOPE (ft/mi) OF SEGMENT 14.000

STREAM VELOCITY (fps) 0.671  
DISCHARGER FLOWRATE (cfs)/(MGD) 3.094 / 2.000

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 40.000 / 667.200  
NH3-N (mg/l)/(lb/day) 15.000 / 250.200  
DO (mg/l) 1.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
5.000	0.000	0.000	6.443	2.013	5.357 7.4
4.500	0.500	1.091	6.244	1.966	6.170 7.5
4.000	1.000	2.183	6.051	1.920	6.582 7.5
3.500	1.500	3.275	5.864	1.876	6.795 7.5
3.000	2.000	4.367	5.683	1.832	6.909 7.5

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 0.821  
SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 0.371

\*\*\*\*\*

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
3.000	0.000	4.367	5.683	1.832	6.909 7.5
2.500	0.500	6.339	5.370	1.756	6.205 7.5
2.000	1.000	8.312	5.074	1.683	5.597 7.5

1.500 1.500 10.284 4.794 1.612 5.075 7.5

H16

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 2.124

SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 1.420

DISCHARGER FLOWRATE (cfs)/(MGD) ##.### / 195.000

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 1.500 / ###.###

NH3-N (mg/l)/(lb/day) 0.100 / 162.630

DO (mg/l) 6.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
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MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
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1.500	0.000	10.284	1.743	0.211	5.931	8.5
1.000	0.500	10.801	1.724	0.209	5.991	8.5
0.500	1.000	11.317	1.705	0.207	6.048	8.5
0.000	1.500	11.833	1.686	0.204	6.103	8.6



1/15/86

RUN BY DJEY CHECKED BY  
FOR THE PROJECT  
HENNING

RIVER BASIN COUNTY

H17

BACKGROUND CONDITIONS

CBOD (mg/l) 1.5  
NH3-N (mg/l) .1  
DO (mg/l) 6  
TEMP (C) 30  
FLOW (cfs) 42

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 11.886

SLOPE (ft/mi) OF SEGMENT 14.000

STREAM VELOCITY (fps) 0.964

DISCHARGER FLOWRATE (cfs)/(MGD) 7.735 / 5.000

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 40.000 / ###.###

NH3-N (mg/l)/(lb/day) 15.000 / 625.500

DO (mg/l) 1.000

\*\*\*\*\*

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
5.000	0.000	0.000	7.487	2.417	5.222 7.4
4.500	0.500	0.760	7.325	2.378	5.824 7.4
4.000	1.000	1.520	7.167	2.339	6.205 7.4
3.500	1.500	2.280	7.012	2.301	6.447 7.4
3.000	2.000	3.040	6.861	2.263	6.603 7.4

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 0.843

SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 0.564

\*\*\*\*\*

R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC pH DO ABOVE
MILES	MILES	HOURS	mg/l	mg/l	mg/l SU
3.000	0.000	3.040	6.861	2.263	6.603 7.4
2.500	0.500	4.340	6.609	2.201	6.033 7.4
2.000	1.000	5.640	6.366	2.140	5.516 7.4

1.500 1.500 6.940 6.133 2.081 5.049 7.4

H18

SEGMENT

PERMIT NO

AUTOMATIC REMOVAL RATES USED

K2 (1/day) AT 20 C 2.199

SLOPE (ft/mi) OF SEGMENT 1.700

STREAM VELOCITY (fps) 1.470

DISCHARGER FLOWRATE (cfs)/(MGD) ###.### / 195.000

PROPOSED STANDARDS

CBOD (mg/l)/(lb/day) 1.500 / ###.###

NH3-N (mg/l)/(lb/day) 0.100 / 162.630

DO (mg/l) 6.000

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R.M.	SEG.LEN.	TIME	CBOD	TOTAL AMMONIA-N	TOXIC DO ABOVE	pH
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MILES	MILES	HOURS	mg/l	mg/l	mg/l	SU
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1.500	0.000	6.940	2.155	0.380	5.865	8.2
1.000	0.500	7.439	2.132	0.376	5.916	8.2
0.500	1.000	7.938	2.109	0.372	5.965	8.2
0.000	1.500	8.437	2.087	0.368	6.011	8.2