BIG CANYON CREEK STUDY

Lewis and Nez Perce Counties

Data Collected 1979

Final Summary October 1980

Department of Health and Welfare
Division of Environment
Statehouse
Boise, Idaho 83720

Water Quality Summary
No. 14

BIG CANYON CREEK STUDY

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Department of Health and Welfare
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Statehouse
Boise, Idaho 83720

TABLE OF CONTENTS

Summary

Data Inventory

Graphics

SUMMARY OF BIG CANYON CREEK STUDY

In the 1979 Water Year a water quality study was completed on Big Canyon Creek in Lewis and Nez Perce Counties. The study was conducted to obtain background information for development of effluent limitations for the Cities of Peck and Nezperce and to determine the present water quality status of the stream. The study provided monitoring on three mainstem stations, five tributary stations, and the City of Nezperce outfall. The parameter coverage in the study included the following categories:

Temperature	Solids
Dissolved Oxygen	Select Ions
pH	Nutrients
Bacteria	Trace Inorganic Toxins
Oxygen Demand	

The major water quality problem found on Big Canyon Creek was nutrient concentrations which exceeded recommended algal stimulation levels. Bacteria violations for both primary and secondary contact recreation standards were also noted at one station near Reubens. On Long Hollow Creek several violations of the 6.0 mg/l dissolved oxygen standard were noted directly below the Nezperce outfall, and bacteria violations and extremely high nutrient concentrations were also common.

The data from the Big Canyon Creek study was used to assist in the development of effluent limitations for a possible City of Peck sewage treatment plant discharge. The analysis for Peck indicates that secondary treatment of their domestic wastewater is adequate to protect the lower portion of Big Canyon Creek. With the water quality problems on Long Hollow Creek, the City of Nezperce will need to reduce or eliminate their discharge during periods of extreme low flow.

The Big Canyon Creek drainage has been identified as a watershed which is severely impacted by agricultural nonpoint sources, but the abnormally low amount of runoff in Water Year 1979 did not provide adequate conditions to evaluate nonpoint sources. A more intensive monitoring program during a typical runoff season is needed to give a better evaluation of nonpoint source impacts.

DATA INVENTORY

STORET RETRIEVAL DATE 80/09/18 - INVENT - VERSION OF AUG. 1980

2020138
46 29 45.0 116 26 00.0 2
BIG CANYON CR AT MOUTH (HWY 12)
16069 IDAHO NEZ PERCE
PACIFIC NORTHWEST 130800
LOWER SNAKE
21IDSURV 790901
0000 CLASS 00

/TYPA/ANBNT/STREAM

INDEX 1310001 002740 01350 0860
MILES 0324.30 0139.30 035.30 000.10

PARAMETER				NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010	WATER	TEMP	CENT	6	9.66667	44.5667	6.67583	.690603	2.72540	18.5000	.000000	78/10/24	79/08/14
00042	ALTITUDE	FEET	AB MSL	1	950.000					950.000	950.000	01/01/01	01/01/01
00061	STREAM	FLOW,	INST-CFS	3	17.8000	84.5205	9.19350	.516489	5.30787	28.4000	12.0000	78/10/24	79/08/14
00076	TURB	TRBIDMTR	HACH FTU	6	3.34999	14.1551	3.76232	1.12308	1.53596	10.8000	.600000	78/10/24	79/08/14
00095	CNDUCTVY	AT 25C	MICROMHO	6	217.500	738.300	27.1717	.124927	11.0928	265.000	193.000	78/10/24	79/08/14
00116	INTNSVE	SURVEY	IDENT	7	791614-	.524E+06	.000000		.000000	791614	791614	01/01/01	79/08/14
00300	DO		MG/L	6	11.2167	4.07378	2.01836	.179943	.823992	13.8000	8.30000	78/10/24	79/08/14
00335	COD	LOWLEVEL	MG/L	1	10.3000					10.3000	10.3000	78/10/24	78/10/24
00400	PH		SU	6	7.58333	.089746	.299576	.039505	.122302	8.00000	7.20000	78/10/24	79/08/14
00403	LAB	PH	SU	3	7.80000	.130096	.360689	.046242	.208244	8.10000	7.40000	79/03/20	79/08/14
00410	T ALK	CACO3	MG/L	6	88.3333	754.672	27.4713	.310996	11.2151	124.000	47.0000	78/10/24	79/08/14
00425	HCO3 ALK	CACO3	MG/L	6	88.3333	754.672	27.4713	.310996	11.2151	124.000	47.0000	78/10/24	79/08/14
00430	CO3 ALK	CACO3	MG/L	6	.500000	.300000	.547722	1.09544	.223607	1.00000	.000000	78/10/24	79/08/14
00500	RESIDUE	TOTAL	MG/L	6	152.533	1026.11	32.0330	.210006	13.0774	196.000	105.200	78/10/24	79/08/14
00530	RESIDUE	TOT NFLT	MG/L	6	5.11666	9.47372	3.07794	.601552	1.25656	9.40000	2.00000	78/10/24	79/08/14
00610	NH3+NH4-	N TOTAL	MG/L	6	.041333	.000615	.024801	.600014	.010125	.070000	.008000	78/10/24	79/08/14
00625	TOT KJEL	N	MG/L	6	.731667	.105856	.325356	.444678	.132826	1.20000	.420000	78/10/24	79/08/14
00630	NO2&NO3	N-TOTAL	MG/L	6	1.89250	10.7959	3.28571	1.73618	1.34139	8.54000	.052000	78/10/24	79/08/14
00665	PHOS-TOT		MG/L P	6	.156667	.002627	.051251	.327134	.020923	.210000	.080000	78/10/24	79/08/14
00900	TOT HARD	CACO3	MG/L	6	84.6667	229.472	15.1483	.178917	6.18428	107.000	70.0000	78/10/24	79/08/14
00916	CALCIUM	CA-TOT	MG/L	6	22.1333	26.7312	5.17023	.233595	2.11074	30.4000	17.6000	78/10/24	79/08/14
00927	MGNSIUM	MG,TOT	MG/L	6	7.03333	.990723	.995351	.141519	.406350	8.50000	6.00000	78/10/24	79/08/14
00929	SODIUM	NA,TOT	MG/L	6	12.5167	13.4176	3.66301	.292650	1.49542	17.6000	8.70000	78/10/24	79/08/14
00937	PTSSIUM	K,TOT	MG/L	6	3.68333	.357684	.598067	.162371	.244160	4.50000	2.80000	78/10/24	79/08/14
00940	CHLORIDE	CL	MG/L	6	5.08333	14.4657	3.80338	.748207	1.55272	12.0000	2.00000	78/10/24	79/08/14
00945	SULFATE	SO4-TOT	MG/L	6	10.8333	12.9667	3.60094	.332394	1.47008	17.0000	6.00000	78/10/24	79/08/14
00951	FLOORIDE	F,TOTAL	MG/L	5	.266000	.016280	.127593	.479675	.057062	.490000	.190000	78/10/24	79/08/14
00956	SILICA	TOTAL	MG/L	6	32.3666	13.4281	3.66444	.113216	1.49600	36.0000	26.0000	78/10/24	79/08/14
01002	ARSENIC	AS,TOT	UG/L	6	10.0000	.000000	.000000		.000000	10.0000	10.0000	78/10/24	79/08/14
01027	CADMIUM	CD,TOT	UG/L	6	2.33333	4.26667	2.06559	.885254	.843274	5.00000	1.00000	78/10/24	79/08/14
01042	COPPER	CU,TOT	UG/L	6	10.0000	.000000	.000000		.000000	10.0000	10.0000	78/10/24	79/08/14
01045	IRON	FE,TOT	UG/L	6	146.667	44376.7	210.658	1.43630	86.0007	560.000	10.0000	78/10/24	79/08/14
01051	LEAD	PB,TOT	UG/L	6	50.0000	.000000	.000000		.000000	50.0000	50.0000	78/10/24	79/08/14
01055	MANGNESE	MN	UG/L	6	10.0000	.000000	.000000		.000000	10.0000	10.0000	78/10/24	79/08/14
01077	SILVER	AG,TOT	UG/L	1	1.00000					1.00000	1.00000	78/10/24	78/10/24
01092	ZINC	ZN,TOT	UG/L	6	1.50000	.700000	.836660	.557773	.341565	3.00000	1.00000	78/10/24	79/08/14
01501	ALPHA	TOTAL	PC/L	6	1.28167	.383698	.619434	.483304	.252883	2.00000	.480000	78/10/24	79/08/14
03501	BETA	TOTAL	PC/L	6	4.08166	4.56851	2.13741	.523661	.872593	8.00000	1.96000	78/10/24	79/08/14
31616	FEC COLI	MFM-FCOR	/100ML	6	18.3333	288.267	16.9784	.926096	6.93141	50.0000	5.00000	78/10/24	79/08/14

STORET RETRIEVAL DATE 80/09/18 - INVENT - VERSION OF AUG. 1980

2020138
46 29 45.0 116 26 00.0 2
BIG CANYON CR AT MOUTH (HWY 12)
16069 IDAHO NEZ PERCE
PACIFIC NORTHWEST 130800
LOWER SNAKE
211DSURV 790901
0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 002740 01350 0860
MILES 0324.30 0139.30 035.30 000.10

PARAMETER			NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
31679 FECSTREP	MF M-ENT	/100ML	6	30.6667	2644.17	51.4215	1.67679	20.9927	135.000	2.00000	78/10/24	79/08/14
70300 RESIDUE	DISS-180 C	MG/L	1	154.000					154.000	154.000	78/10/24	78/10/24
70507 PHOS-T	ORTHO	MG/L P	6	.125500	.001560	.039495	.314704	.016124	.170000	.082000	78/10/24	79/08/14
71900 MERCURY	HG,TOTAL	UG/L	6	.500000	.000000	.000000		.000000	.500000	.500000	78/10/24	79/08/14

STORET RETRIEVAL DATE 80/09/18 - INVENT - VERSION OF AUG. 1980

2020139
46 28 45.0 116 25 25.0 2
1ST WEST TRIBUTARY NORTH OF PECK
16069 IDAHO NEZ PERCE
PACIFIC NORTHWEST 130800
LOWER SNAKE
21IDSURV 790901
0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 002740 01350 0860 0020
MILES 0324.30 0139.30 035.30 001.50 000.10

PARAMETER				NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010	WATER	TEMP	CENT	5	7.50000	27.1250	5.20817	.694422	2.32916	13.5000	.000000	78/10/24	79/06/05
00042	ALTITUDE	FEET	AB MSL	1	1040.00					1040.00	1040.00	01/01/01	01/01/01
00061	STREAM	FLOW,	INST-CFS	2	.550000	.405000	.636396	1.15708	.450000	1.00000	.100000	78/10/24	79/06/05
00076	TURB	TRBIDMTR	HACH FTU	5	9.94000	68.9830	8.30560	.835574	3.71438	24.0000	1.90000	78/10/24	79/06/05
00095	CNDUCTVY	AT 25C	MICROMHO	5	140.600	641.312	25.3241	.180115	11.3253	174.000	105.000	78/10/24	79/06/05
00116	INTNSVE	SURVEY	IDENT	6	791614-	.419E+06	.000000		.000000	791614	791614	01/01/01	79/06/05
00300	DO		MG/L	5	10.9000	3.60999	1.90000	.174312	.849704	13.3000	8.40000	78/10/24	79/06/05
00335	COD	LOWLEVEL	MG/L	1	7.70000					7.70000	7.70000	78/10/24	78/10/24
00400	PH		SU	5	7.40000	.140076	.374267	.050577	.167377	7.90000	7.10000	78/10/24	79/06/05
00403	LAB	PH	SU	2	7.55000	.124985	.353532	.046825	.249985	7.80000	7.30000	79/03/20	79/05/01
00500	RESIDUE	TOTAL	MG/L	5	141.840	1077.34	32.8229	.231408	14.6789	185.000	98.2000	78/10/24	79/06/05
00530	RESIDUE	TOT NFLT	MG/L	5	4.30000	5.20002	2.28036	.530315	1.01981	7.00000	2.00000	78/10/24	79/06/05
00610	NH3+NH4-	N TOTAL	MG/L	5	.025600	.000144	.012013	.469241	.005372	.040000	.007000	78/10/24	79/06/05
00625	TOT KJEL	N	MG/L	5	.642000	.385820	.621144	.967515	.277784	1.50000	.100000	78/10/24	79/06/05
00630	NO2&NO3	N-TOTAL	MG/L	5	2.64700	9.03773	3.00628	1.13573	1.34445	7.40000	.312000	78/10/24	79/06/05
00665	PHOS-TOT		MG/L P	5	.140000	.001150	.033912	.242227	.015166	.180000	.090000	78/10/24	79/06/05
00940	CHLORIDE	CL	MG/L	5	4.26000	14.8780	3.85721	.905448	1.72499	11.0000	2.00000	78/10/24	79/06/05
31616	FEC COLI	MFM-FCBR	/100ML	5	4.20000	8.20002	2.86357	.681802	1.28063	9.00000	2.00000	78/10/24	79/06/05
31674	INVALID	PAR	NUMBER	1	74.0000					74.0000	74.0000	78/10/24	78/10/24
31679	FECSTREP	MF M-LNT	/100ML	5	27.6000	958.301	30.9564	1.12161	13.8441	74.0000	4.00000	78/10/24	79/06/05
70507	PHOS-T	ORTHO	MG/L P	5	.115600	.000231	.015209	.131565	.006802	.136000	.099000	78/10/24	79/06/05

STORET RETRIEVAL DATE 80/09/18 - INVENT - VERSION OF AUG. 1980

2020140
46 28 00.0 116 25 05.0 2
BIG CANYON CR ABOVE CONFL OF LITTLE CANYON CR
16069 IDAHO NEZ PERCE
PACIFIC NORTHWEST 130800
LOWER SNAKE
21IDSURV 790901
0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 002740 01350 0860
MILES 0324.30 0139.30 035.30 002.50

PARAMETER				NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010	WATER	TEMP	CENT	6	9.75000	43.5750	6.60114	.677040	2.69490	18.5000	.000000	78/10/24	79/08/14
00042	ALTITUDE	FEET	AB MSL	1	1080.00					1080.00	1080.00	01/01/01	01/01/01
00061	STREAM	FLOW,	INST-CFS	2	9.89999	2.88022	1.69712	.171426	1.20005	11.1000	8.70000	78/10/24	79/06/05
00076	TURB	TRBIDMTR	HACH FTU	6	3.65000	13.3710	3.65664	1.00182	1.49282	11.0000	1.40000	78/10/24	79/08/14
00095	CNDUCTVY	AT 25C	MICROMHO	6	195.500	569.900	23.8726	.122110	9.74594	241.000	177.000	78/10/24	79/08/14
00116	INTNSVE	SURVEY	IDENT	7	791614-	.524E+06	.000000		.000000	791614	791614	01/01/01	79/08/14
00300	DO		MG/L	6	10.7833	4.42173	2.10279	.195004	.858461	13.7000	8.10000	78/10/24	79/08/14
00335	COD	LOWLEVEL	MG/L	1	7.70000					7.70000	7.70000	78/10/24	78/10/24
00400	PH		SU	6	7.66666	.166748	.408348	.053263	.166707	8.30000	7.20000	78/10/24	79/08/14
00403	LAB	PH	SU	3	7.53333	.203461	.451066	.059876	.260423	8.00000	7.10000	79/03/20	79/08/14
00500	RESIDUE	TOTAL	MG/L	6	143.750	1623.57	40.2936	.280303	16.4498	189.000	77.0000	78/10/24	79/08/14
00530	RESIDUE	TOT NFLT	MG/L	6	7.53333	58.9587	7.67846	1.01926	3.13472	22.0000	2.00000	78/10/24	79/08/14
00610	NH3+NH4-	N TOTAL	MG/L	6	.046500	.000635	.025209	.542132	.010292	.091000	.023000	78/10/24	79/08/14
00625	TOT KJEL	N	MG/L	6	.796666	.076267	.276164	.346650	.112744	1.20000	.500000	78/10/24	79/08/14
00630	NO2&NO3	N-TOTAL	MG/L	6	2.56617	11.5127	3.39303	1.32222	1.38520	8.98000	.364000	78/10/24	79/08/14
00665	PHOS-TOT		MG/L P	6	.151667	.001657	.040702	.268365	.016617	.190000	.080000	78/10/24	79/08/14
00940	CHLORIDE	CL	MG/L	6	4.36666	12.0827	3.47602	.796036	1.41908	11.0000	2.00000	78/10/24	79/08/14
31616	FEC COLI	MFM-FCBR	/100ML	6	30.5000	1611.10	40.1385	1.31602	16.3865	106.000	.000000	78/10/24	79/08/14
31679	FECSTREP	MF M-ENT	/100ML	6	56.6667	5691.07	75.4392	1.33128	30.7979	172.000	2.00000	78/10/24	79/08/14
70507	PHOS-T	ORTHO	MG/L P	6	.114833	.000897	.029956	.260866	.012230	.160000	.079000	78/10/24	79/08/14

STORET RETRIEVAL DATE 80/09/18 - INVENT - VERSION OF AUG. 1980

2020141
46 28 05.0 116 25 00.0 2
LITTLE CANYON CRK AT MOUTH
16069 IDAHO NEZ PERCE
PACIFIC NORTHWEST 130800
LOWER SNAKE
21IDSURV 790901
0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 002740 01350 0860 0030
MILES 0324.30 0139.30 035.30 002.50 000.10

PARAMETER				NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010	WATER	TEMP	CENT	6	9.75000	41.5750	6.44787	.661320	2.63233	18.0000	.000000	78/10/24	79/08/14
00042	ALTITUDE	FEET	AB MSL	1	1080.00					1080.00	1080.00	01/01/01	01/01/01
00061	STREAM	FLOW,	INST-CFS	2	6.65000	2.64500	1.62635	.244563	1.15000	7.80000	5.50000	78/10/24	79/06/05
00076	TURB	TRBIDMTR	HACH FTU	6	3.56667	22.1947	4.71112	1.32087	1.92331	13.0000	.400000	78/10/24	79/08/14
00095	CNDUCTVY	AT 25C	MICROMHO	6	250.333	1294.69	35.9818	.143735	14.6895	316.000	222.000	78/10/24	79/08/14
00116	INTNSVE	SURVEY	IDENT	7	791614-	.524E+06	.000000		.000000	791614	791614	01/01/01	79/08/14
00300	DO		MG/L	6	10.6500	4.75102	2.17968	.204665	.889853	13.6000	7.80000	78/10/24	79/08/14
00335	COD	LOWLEVEL	MG/L	1	7.90000					7.90000	7.90000	78/10/24	78/10/24
00400	PH		SU	6	7.71666	.101660	.318842	.041319	.130167	8.00000	7.20000	78/10/24	79/08/14
00403	LAB	PH	SU	3	7.80000	.090103	.300172	.038484	.173304	8.10000	7.50000	79/03/20	79/08/14
00500	RESIDUE	TOTAL	MG/L	6	177.833	553.737	23.5316	.132324	9.60675	212.000	155.000	78/10/24	79/08/14
00530	RESIDUE	TOT NFLT	MG/L	6	3.15000	8.43902	2.90500	.922222	1.18596	9.00000	1.20000	78/10/24	79/08/14
00610	NH3+NH4-	N TOTAL	MG/L	6	.030833	.000285	.016893	.547875	.006896	.054000	.012000	78/10/24	79/08/14
00625	TOT KJEL	N	MG/L	6	.746666	.426867	.653351	.875023	.266729	2.00000	.100000	78/10/24	79/08/14
00630	NO2&NO3	N-TOTAL	MG/L	6	1.98383	10.6078	3.25697	1.64175	1.32965	8.38000	.042000	78/10/24	79/08/14
00665	PHOS-TOT		MG/L P	6	.178333	.001857	.043089	.241621	.017591	.230000	.130000	78/10/24	79/08/14
00940	CHLORIDE	CL	MG/L	6	4.93333	14.1427	3.76068	.762301	1.53529	12.0000	2.10000	78/10/24	79/08/14
31616	FEC COLI	MFM-FCBR	/100ML	6	47.3333	2044.27	45.2136	.955217	18.4584	110.000	2.00000	78/10/24	79/08/14
31679	FECSTREP	MF M-ENT	/100ML	6	50.5000	4282.70	65.4423	1.29589	26.7167	168.000	2.00000	78/10/24	79/08/14
70507	PHOS-T	ORTHO	MG/L P	6	.138500	.000732	.027046	.195280	.011042	.170000	.100000	78/10/24	79/08/14

STORET RETRIEVAL DATE 80/09/18 - INVENT - VERSION OF AUG. 1980

2020142
46 16 40.0 116 15 40.0 2
LONG HOLLOW CR AT HWY 64
16061 IDAHO LEWIS
PACIFIC NORTHWEST 130800
LOWER SNAKE
21IDSURV 790901
0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 002740 01350 0860 0030 0150
MILES 0324.30 0139.30 035.30 002.50 014.40 001.60

PARAMETER				NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010	WATER	TEMP	CENT	6	11.3333	43.9667	6.63074	.585065	2.70699	17.5000	.000000	78/10/23	79/08/14
00042	ALTITUDE	FEET	AB MSL	1	3100.00					3100.00	3100.00	01/01/01	01/01/01
00061	STREAM	FLOW,	INST-CFS	3	.483333	.110834	.332917	.688795	.192210	.700000	.100000	78/10/23	79/08/14
00076	TURB	TRBIDMTR	HACH FTU	6	5.66666	29.8787	5.46614	.964613	2.23154	16.0000	1.20000	78/10/23	79/08/14
00095	CNDUCTVY	AT 25C	MICROMHO	6	435.666	4522.60	67.2503	.154362	27.4548	505.000	320.000	78/10/23	79/08/14
00116	INTNSVE	SURVEY	IDENT	7	791471-	.174E+06	.000000		.000000	791614	790614	01/01/01	79/08/14
00300	DO		MG/L	6	9.76666	3.94673	1.98664	.203410	.811041	12.7000	6.80000	78/10/23	79/08/14
00335	COD	LOWLEVEL	MG/L	1	17.7000					17.7000	17.7000	78/10/23	78/10/23
00400	PH		SU	6	7.74999	.379101	.615712	.079447	.251363	8.80000	7.10000	78/10/23	79/08/14
00403	LAB	PH	SU	3	7.83333	.563431	.750620	.095824	.433371	8.60000	7.10000	79/03/20	79/08/14
00500	RESIDUE	TOTAL	MG/L	6	289.100	947.987	30.7894	.106501	12.5697	340.000	261.000	78/10/23	79/08/14
00530	RESIDUE	TOT NFLT	MG/L	6	9.45000	59.2470	7.69720	.814519	3.14237	19.3000	2.00000	78/10/23	79/08/14
00610	NH3+NH4-	N TOTAL	MG/L	6	.682666	1.38260	1.17584	1.72242	.480035	3.01000	.040000	78/10/23	79/08/14
00625	TOT KJEL	N	MG/L	6	2.22500	1.63574	1.27896	.574815	.522134	4.80000	1.40000	78/10/23	79/08/14
00630	NO2&NO3	N-TOTAL	MG/L	6	2.08300	10.3637	3.21927	1.54550	1.31426	8.59000	.330000	78/10/23	79/08/14
00665	PHOS-TOT		MG/L P	6	.746666	.373747	.611348	.818771	.249582	1.92000	.320000	78/10/23	79/08/14
00940	CHLORIDE	CL	MG/L	6	9.25000	22.8870	4.78404	.517193	1.95307	15.0000	3.20000	78/10/23	79/08/14
31616	FEC COLI	MFM-FCBR	/100ML	6	505.666	1057121	1028.16	2.03328	419.746	2600.00	14.0000	78/10/23	79/08/14
31679	FECSTREP	MF M-ENT	/100ML	5	44.8000	1329.20	36.4582	.813800	16.3046	96.0000	10.0000	78/10/23	79/06/05
70507	PHOS-T	ORTHO	MG/L P	6	.609166	.291331	.539751	.886049	.220352	1.63000	.232000	78/10/23	79/08/14

STORET RETRIEVAL DATE 80/09/18 - INVENT - VERSION OF AUG. 1980

2020143
46 14 25.0 116 14 35.0 2
LONG HOLLOW CR DWNSTREAM OF NEZPERCE OUTFALL
16061 IDAHO LEWIS
PACIFIC NORTHWEST 130800
LOWER SNAKE
21IDSURV 791006
0000 CLASS 00

/TYPA/AMONT/STREAM

INDEX 1310001 002740 01350 0860 0030 0150
MILES 0324.30 0139.30 035.30 002.50 014.40 004.70

PARAMETER				NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010	WATER	TEMP	CENT	6	11.4167	44.4417	6.66646	.583924	2.72157	18.5000	.000000	78/10/23	79/08/14
00042	ALTITUDE	FEET	AB MSL	1	3200.00					3200.00	3200.00	01/01/01	01/01/01
00076	TURB	TRBIDMTR	HACH FTU	6	7.73333	28.8107	5.36756	.694081	2.19130	17.0000	2.60000	78/10/23	79/08/14
00095	CNDUCTVY	AT 25C	MICROMHO	6	522.333	19550.0	139.821	.267686	57.0818	760.000	340.000	78/10/23	79/08/14
00116	INTNSVE	SURVEY	IDENT	7	791614-	.524E+06	.000000		.000000	791614	791614	01/01/01	79/08/14
00300	DO		MG/L	6	7.23333	4.23872	2.05881	.284629	.840508	10.1000	4.40000	78/10/23	79/08/14
00335	COD	LOWLEVEL	MG/L	1	41.6000					41.6000	41.6000	78/10/23	78/10/23
00400	PH		SU	6	7.78333	.293750	.541987	.069634	.221265	8.40000	7.10000	78/10/23	79/08/14
00403	LAB	PH	SU	3	7.99999	.210175	.458448	.057306	.264685	8.50000	7.60000	79/03/20	79/08/14
00500	RESIDUE	TOTAL	MG/L	6	305.983	17959.8	134.014	.437979	54.7110	486.500	82.4000	78/10/23	79/08/14
00530	RESIDUE	TOT NFLT	MG/L	6	10.9000	28.6040	5.34827	.490667	2.18342	17.0000	4.20000	78/10/23	79/08/14
00610	NH3+NH4-	N TOTAL	MG/L	6	1.83017	1.94017	1.39290	.761079	.568650	3.61000	.280000	78/10/23	79/08/14
00615	NO2-N	TOTAL	MG/L	6	.059667	.003143	.056067	.939664	.022889	.140000	.008000	78/10/23	79/08/14
00620	NO3-N	TOTAL	MG/L	6	2.20333	9.13626	3.02262	1.37184	1.23398	7.23000	.150000	78/10/23	79/08/14
00625	TOT KJEL	N	MG/L	6	4.03333	2.49070	1.57819	.391288	.644295	5.90000	1.90000	78/10/23	79/08/14
00665	PHOS-TOT		MG/L P	6	1.89833	2.97529	1.72490	.908641	.704189	4.86000	.390000	78/10/23	79/08/14
00940	CHLORIDE	CL	MG/L	6	12.9667	106.391	10.3146	.795470	4.21091	32.6000	5.00000	78/10/23	79/08/14
31616	FEC COLI	MFM-FCBR	/100ML	6	571.000	312037	558.603	.978288	228.049	1600.00	37.0000	78/10/23	79/08/14
31679	FECSTREP	MF M-ENT	/100ML	6	1119.83	3128580	1768.78	1.57950	722.101	4600.00	12.0000	78/10/23	79/08/14
70507	PHOS-T	ORTHO	MG/L P	6	1.45917	1.91835	1.38504	.949203	.565442	3.81000	.283000	78/10/23	79/08/14

STORET RETRIEVAL DATE 80/09/18 - INVENT - VERSION OF AUG. 1980

2020144
46 14 30.0 116 14 30.0 2
NEZPERCE OUTFALL
16061 IDAHO LEWIS
PACIFIC NORTHWEST 130800
LOWER SNAKE
211DSURV 791013
0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 002740 01350 0860 0030 0150
MILES 0324.30 0139.30 035.30 002.50 014.40 004.80

PARAMETER				NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010	WATER	TEMP	CENT	6	11.3333	56.9667	7.54763	.665967	3.08131	19.5000	.000000	78/10/23	79/08/14
00042	ALTITUDE	FEET	AB MSL	1	3200.00					3200.00	3200.00	01/01/01	01/01/01
00061	STREAM	FLOW,	INST-CFS	3	.116667	.018533	.136137	1.16689	.078599	.270000	.010000	78/10/23	79/08/14
00076	TURB	TRBIDMTR	HACH FTU	6	7.26666	27.4428	5.23858	.720907	2.13864	17.0000	1.80000	78/10/23	79/08/14
00095	CNDUCTVY	AT 25C	MICROMHO	6	581.166	17966.4	134.039	.230637	54.7211	728.000	362.000	78/10/23	79/08/14
00116	INTNSVE	SURVEY	IDENT	7	791614-	.524E+06	.000000		.000000	791614	791614	01/01/01	79/08/14
00300	DO		MG/L	6	4.76666	5.66674	2.38049	.499405	.971832	7.60000	1.80000	78/10/23	79/08/14
00310	BOD	5 DAY	MG/L	1	60.0000					60.0000	60.0000	79/08/14	79/08/14
00335	COD	LOWLEVEL	MG/L	1	50.3000					50.3000	50.3000	78/10/23	78/10/23
00400	PH		SU	6	8.10000	.568066	.753702	.093050	.307697	9.00000	7.10000	78/10/23	79/08/14
00403	LAB	PH	SU	3	8.03333	.563454	.750635	.093440	.433380	8.80000	7.30000	79/03/20	79/08/14
00500	RESIDUE	TOTAL	MG/L	6	378.800	9141.82	95.6129	.252410	39.0338	497.000	247.000	76/10/23	79/08/14
00530	RESIDUE	TOT NFLT	MG/L	6	9.03333	41.3667	6.43169	.711996	2.62573	18.0000	2.00000	78/10/23	79/08/14
00610	NH3+NH4-	N TOTAL	MG/L	6	3.14000	4.65791	2.15822	.687331	.881090	7.30000	1.16000	78/10/23	79/08/14
00615	NO2-N	TOTAL	MG/L	6	.191166	.035296	.187873	.982772	.076699	.404000	.006000	78/10/23	79/08/14
00620	NO3-N	TOTAL	MG/L	6	1.12500	2.57458	1.60455	1.42627	.655055	3.74000	.060000	78/10/23	79/08/14
00625	TOT KJEL	N	MG/L	6	7.22499	6.29185	2.50835	.347178	1.02403	12.2000	5.10000	78/10/23	79/08/14
00665	PHOS-TOT		MG/L P	6	3.81333	3.16978	1.78039	.466886	.726841	6.16000	1.73000	78/10/23	79/08/14
00940	CHLORIDE	CL	MG/L	5	27.0200	118.362	10.8803	.402677	4.86583	41.0000	14.0000	78/10/23	79/08/14
31616	FEC COLI	MFM-FCBR	/100ML	6	638.000	505472	710.966	1.11437	290.250	2000.00	20.0000	78/10/23	79/08/14
31679	FECSTREP	MF M-ENT	/100ML	6	348.833	232314	481.989	1.38172	196.771	1000.00	10.0000	78/10/23	79/08/14
70507	PHOS-T	ORTHO	MG/L P	6	2.93833	1.42498	1.19373	.406260	.487336	4.43000	1.35000	78/10/23	79/08/14

STORET RETRIEVAL DATE 80/09/18 - INVENT - VERSION OF AUG. 1980

2020145
46 13 40.0 116 14 35.0 2
LONG HOLLOW CR UPSTREAM OF NEZPERCE OUTFALL
16061 IDAHO LEWIS
PACIFIC NORTHWEST 130800
LOWER SNAKE
21IDSURV 791006
0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 002740 01350 0860 0030 0150
MILES 0324.30 0139.30 035.30 002.50 014.40 005.10

PARAMETER				NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010	WATER	TEMP	CENT	6	10.6667	39.5667	6.29021	.589707	2.56797	17.0000	.000000	78/10/23	79/08/14
00042	ALTITUDE	FEET	AB MSL	1	3210.00					3210.00	3210.00	01/01/01	01/01/01
00061	STREAM	FLOW,	INST-CFS	2	.780000	.028801	.169708	.217575	.120002	.900000	.660000	78/10/23	79/06/05
00076	TURB	TRBIDMTR	HACH FTU	6	4.75000	27.0710	5.20298	1.09536	2.12411	15.0000	1.00000	78/10/23	79/08/14
00095	CNDUCTVY	AT 25C	MICROMHO	6	408.666	3714.04	60.9429	.149126	24.8798	471.000	302.000	78/10/23	79/08/14
00116	INTNSVE	SURVEY	IDENT	7	791614-	.524E+06	.000000		.000000	791614	791614	01/01/01	79/08/14
00300	DO		MG/L	6	10.3167	3.48975	1.86809	.181075	.762643	12.4000	7.30000	78/10/23	79/08/14
00335	COD	LOWLEVEL	MG/L	1	16.6000					16.6000	16.6000	78/10/23	78/10/23
00400	PH		SU	6	7.81666	.633789	.796109	.101848	.325010	8.60000	6.40000	78/10/23	79/08/14
00403	LAB	PH	SU	3	8.10000	.310150	.556911	.068754	.321533	8.70000	7.60000	79/03/20	79/08/14
00500	RESIDUE	TOTAL	MG/L	6	272.983	1690.64	41.1174	.150622	16.7861	339.000	219.900	78/10/23	79/08/14
00530	RESIDUE	TOT NFLT	MG/L	6	8.11666	70.5937	8.40201	1.03516	3.43010	25.0000	3.00000	78/10/23	79/08/14
00610	NH3+NH4-	N TOTAL	MG/L	6	.055667	.000511	.022616	.406268	.009233	.088000	.024000	78/10/23	79/08/14
00625	TOT KJEL	N	MG/L	6	1.01667	.229669	.479238	.471382	.195648	1.90000	.500000	78/10/23	79/08/14
00630	NO2&NO3	N-TOTAL	MG/L	6	1.37833	9.00967	3.00161	2.17771	1.22540	7.50000	.031000	78/10/23	79/08/14
00665	PHOS-TOT		MG/L P	6	.186667	.005947	.077115	.413114	.031482	.330000	.130000	78/10/23	79/08/14
00940	CHLORIDE	CL	MG/L	6	5.26666	7.27470	2.69717	.512120	1.10111	10.0000	2.20000	78/10/23	79/08/14
31616	FEC COLI	MFM-FCBR	/100ML	6	479.166	1184978	1088.57	2.27179	444.406	2700.00	.000000	78/10/23	79/08/14
31679	FECSTREP	MF M-ENT	/100ML	6	223.667	229073	478.616	2.13986	195.394	1200.00	9.00000	78/10/23	79/08/14
70507	PHOS-T	ORTHO	MG/L P	6	.092333	.005172	.071918	.778900	.029361	.217000	.028000	78/10/23	79/08/14

STORET RETRIEVAL DATE 80/09/18 - INVENT - VERSION OF AUG. 1980

2020146
46 16 20.0 116 32 00.0 2
BIG CANYON CR NEAR CRAIG JUNCTION (NEAR REUBENS)
16069 IDAHO NEZ PERCE
PACIFIC NORTHWEST 130800
LOWER SNAKE
21IDSURV 790901
0000 CLASS 00

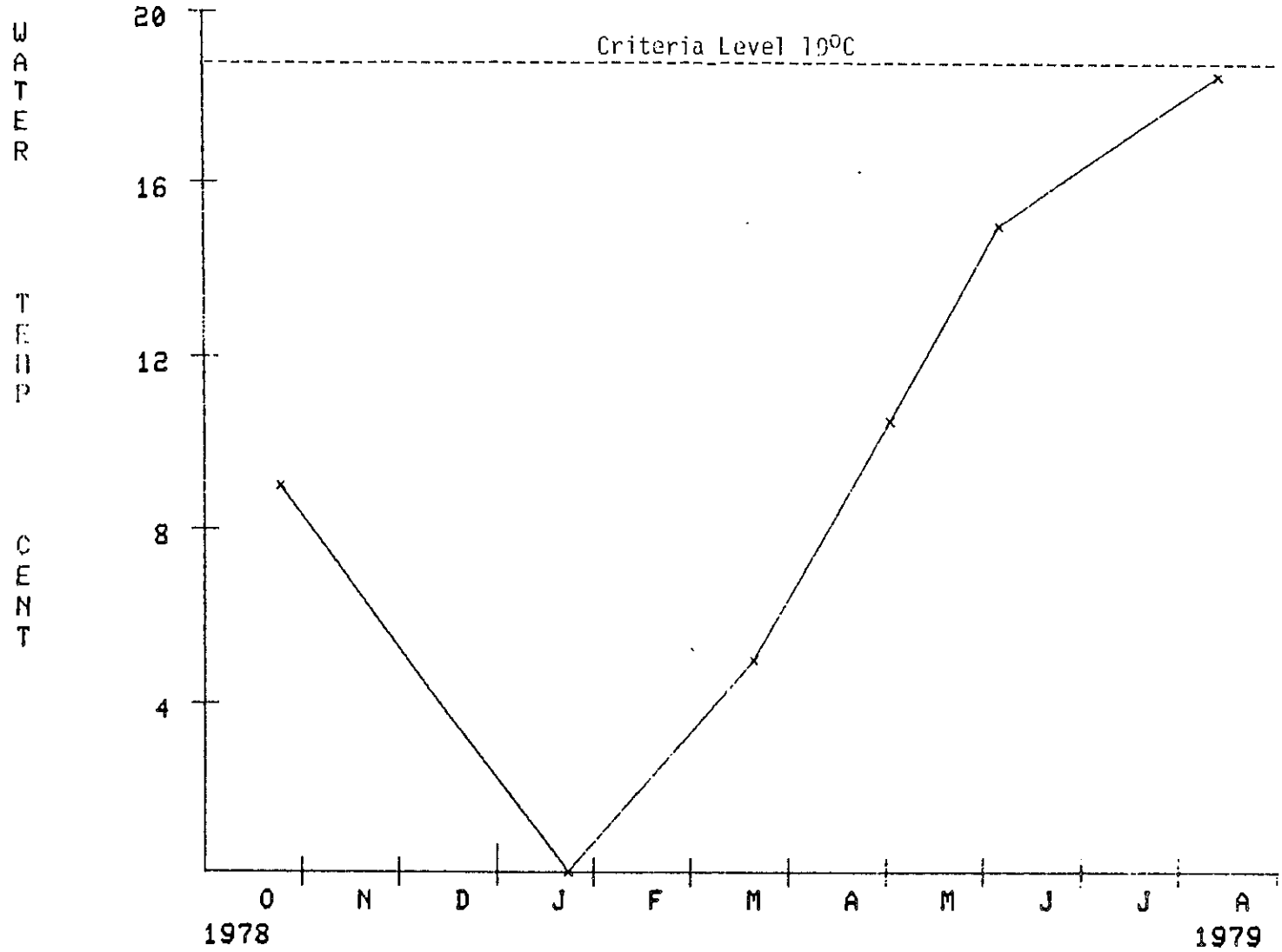
/TYPA/AMBNT/STREAM

INDEX 1310001 002740 01350 0860
MILES 0324.30 0139.30 035.30 026.60

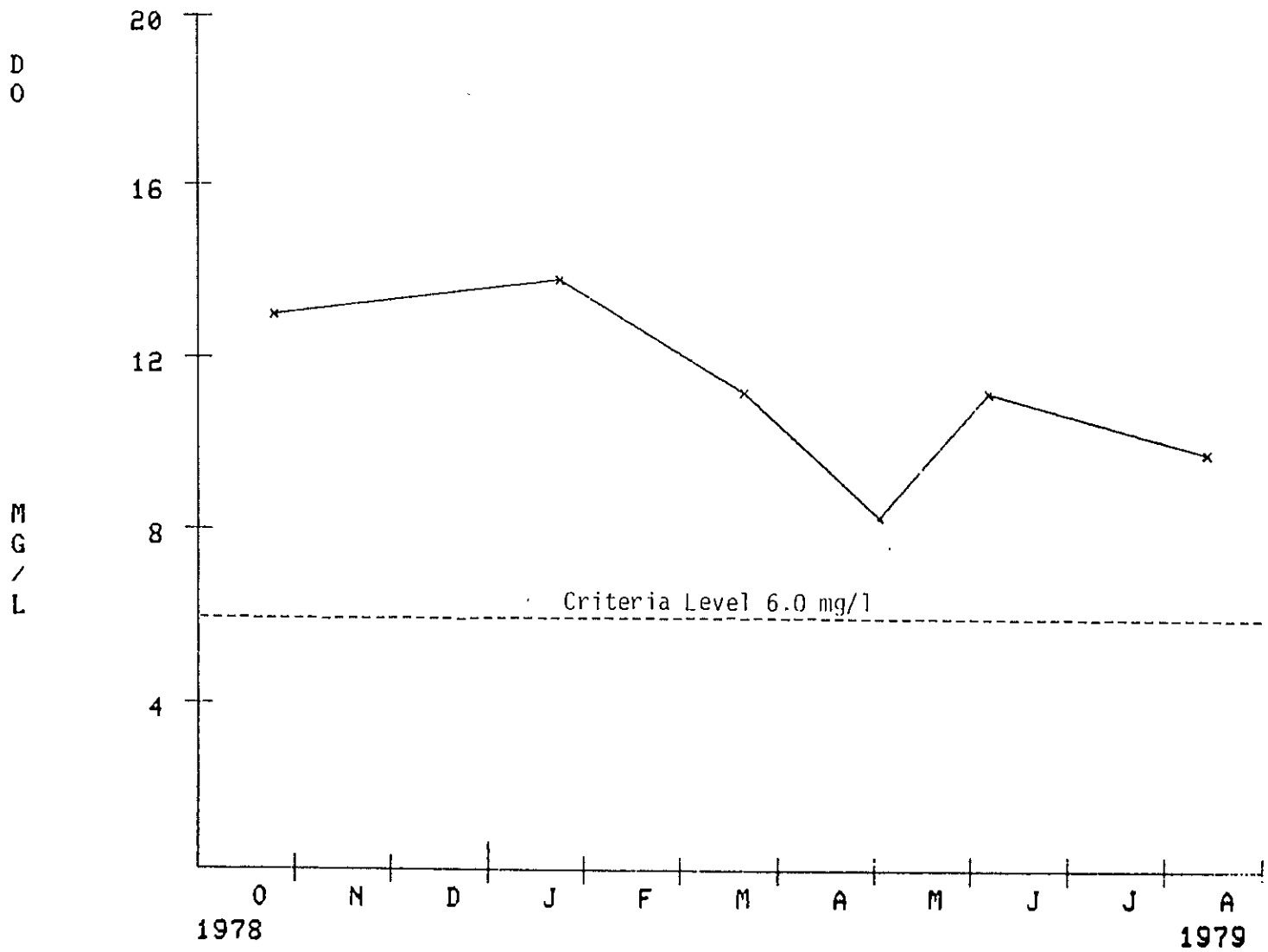
PARAMETER				NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010	WATER	TEMP	CENT	5	10.4000	36.9250	6.07660	.584288	2.71754	16.5000	4.00000	78/10/23	79/08/14
00042	ALTITUDE	FEET	AB MSL	1	3640.00					3640.00	3640.00	01/01/01	01/01/01
00061	STREAM	FLOW,	INST-CFS	4	.652500	.855692	.925036	1.41768	.462518	2.00000	.000000	78/10/23	79/08/14
00076	TURB	TRBIDMTR	HACH FTU	5	12.1400	50.2281	7.08718	.583787	3.16948	24.0000	6.40000	78/10/23	79/08/14
00095	CNDUCTVY	AT 25C	MICROMHO	5	268.600	4404.41	66.3657	.247080	29.6796	350.000	173.000	78/10/23	79/08/14
00116	INTNSVE	SURVEY	IDENT	7	791614-	.524E+06	.000000		.000000	791614	791614	01/01/01	79/08/14
00300	DO		MG/L	5	9.69999	4.11505	2.02856	.209130	.907199	12.9000	7.30000	78/10/23	79/08/14
00335	COD	LOWLEVEL	MG/L	1	17.9000					17.9000	17.9000	78/10/23	78/10/23
00400	PH		SU	5	7.86000	.098083	.313183	.039845	.140060	8.20000	7.40000	78/10/23	79/08/14
00403	LAB	PH	SU	4	7.87500	.049230	.221878	.028175	.110939	8.10000	7.60000	79/03/19	79/08/14
00500	RESIDUE	TOTAL	MG/L	5	240.400	865.326	29.4165	.122365	13.1554	288.000	209.000	78/10/23	79/08/14
00530	RESIDUE	TOT NFLT	MG/L	5	32.0000	481.500	21.9431	.685722	9.81326	59.0000	12.0000	78/10/23	79/08/14
00610	NH3+NH4-	N TOTAL	MG/L	5	.112600	.023912	.154636	1.37332	.069155	.389000	.036000	78/10/23	79/08/14
00625	TOT KJEL	N	MG/L	5	1.12000	.127002	.356373	.318191	.159375	1.50000	.600000	78/10/23	79/08/14
00630	NO2&NO3	N-TOTAL	MG/L	5	2.26120	6.03764	2.45716	1.08666	1.09887	5.10000	.226000	78/10/23	79/08/14
00665	PHOS-TOT		MG/L P	5	.288000	.009770	.098844	.343208	.044204	.450000	.200000	78/10/23	79/08/14
00940	CHLORIDE	CL	MG/L	5	4.60000	10.8000	3.28634	.714421	1.46969	10.0000	2.00000	78/10/23	79/08/14
31501	TOT COLI	MFIMENDO	/100ML	1	22.0000					22.0000	22.0000	79/06/05	79/06/05
31616	FEC COLI	MFM-FCBR	/100ML	4	360.500	30721.0	175.274	.486197	87.6370	580.000	152.000	78/10/23	79/08/14
31679	FECSTREP	MF M-ENT	/100ML	4	139.000	24070.7	155.147	1.11617	77.5736	370.000	40.0000	78/10/23	79/08/14
70507	PHOS-T	ORTHO	MG/L P	5	.196200	.007466	.086404	.440388	.038641	.350000	.149000	78/10/23	79/08/14

GRAPHICS

STORET STATION 2020138
BIG CANYON CR AT MOUTH (HWY 12)



STORET STATION 2020138
BIG CANYON CR AT MOUTH (HWY 12)



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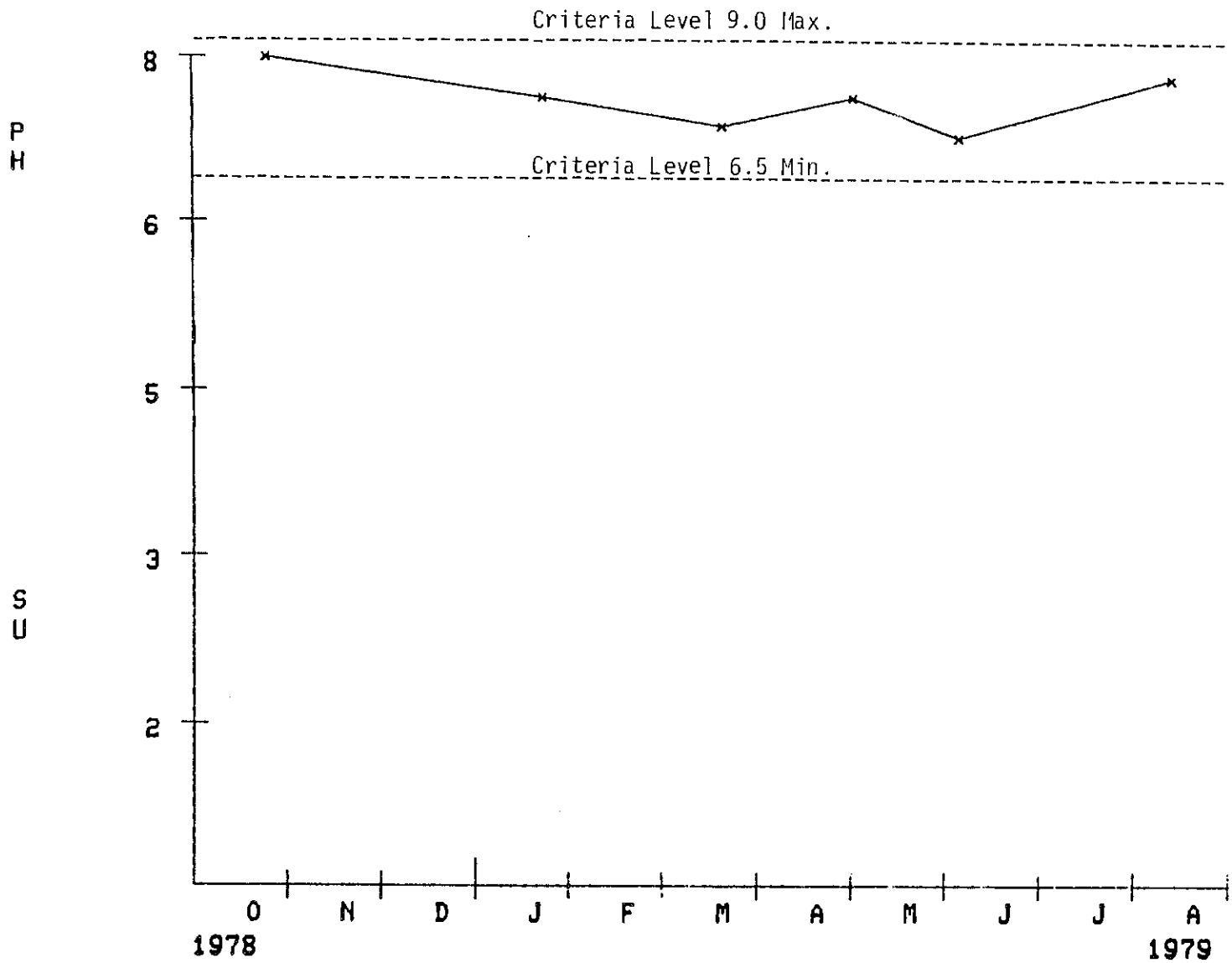
BIG CANYON CR AT MOUTH (HWY 12)



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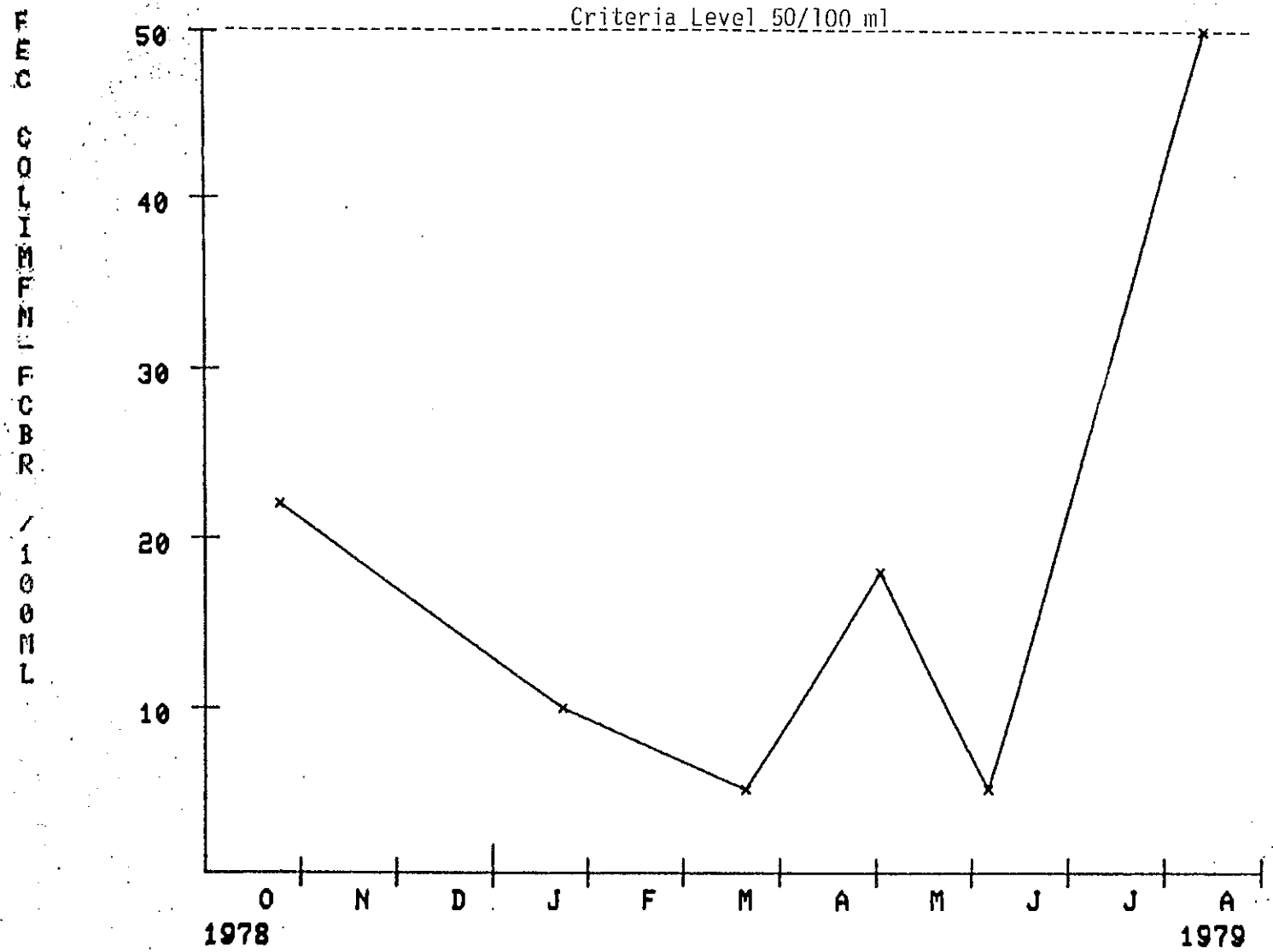
BIG CANYON CR AT MOUTH (HWY 12)



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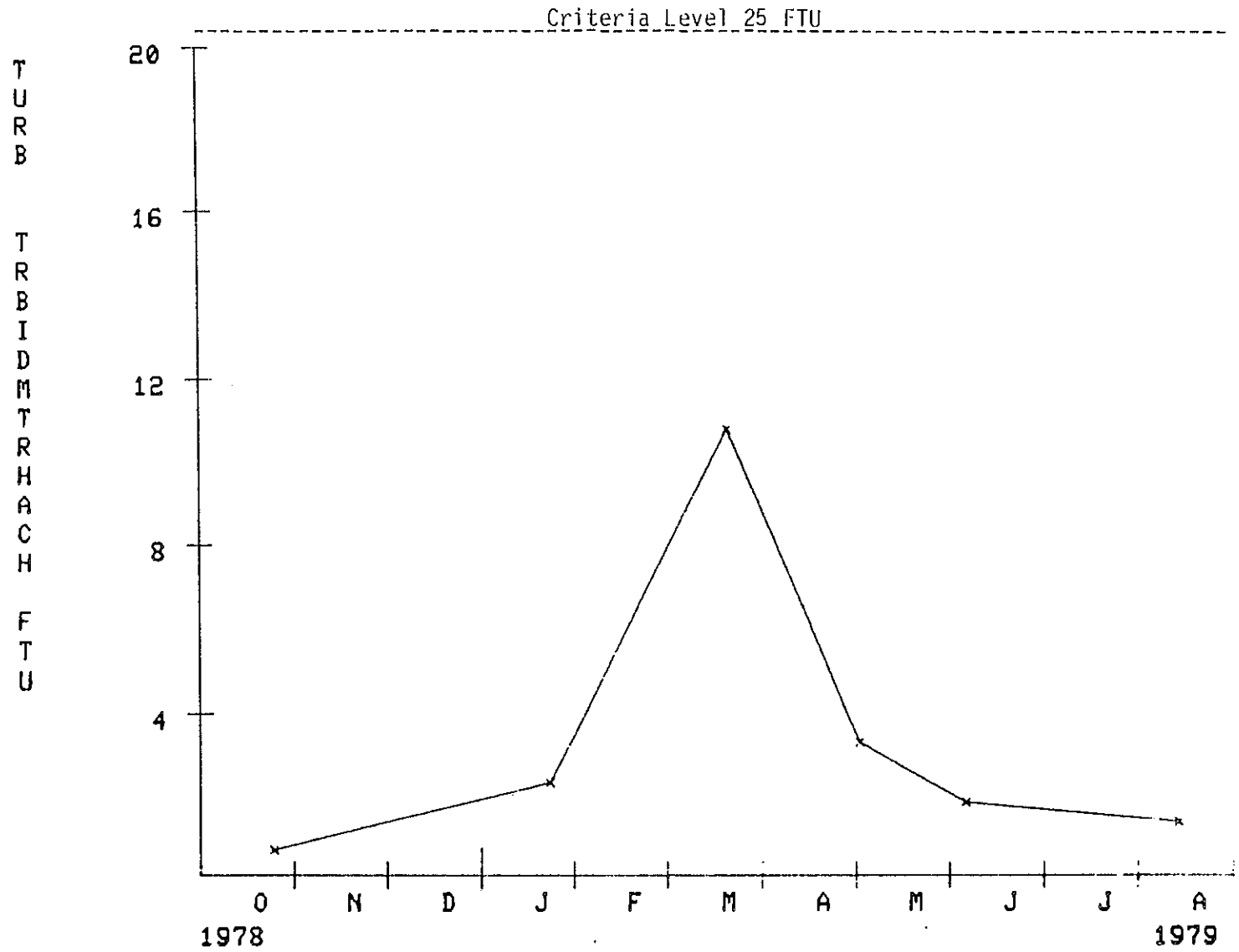
BIG CANYON CR AT MOUTH (HWY 12)



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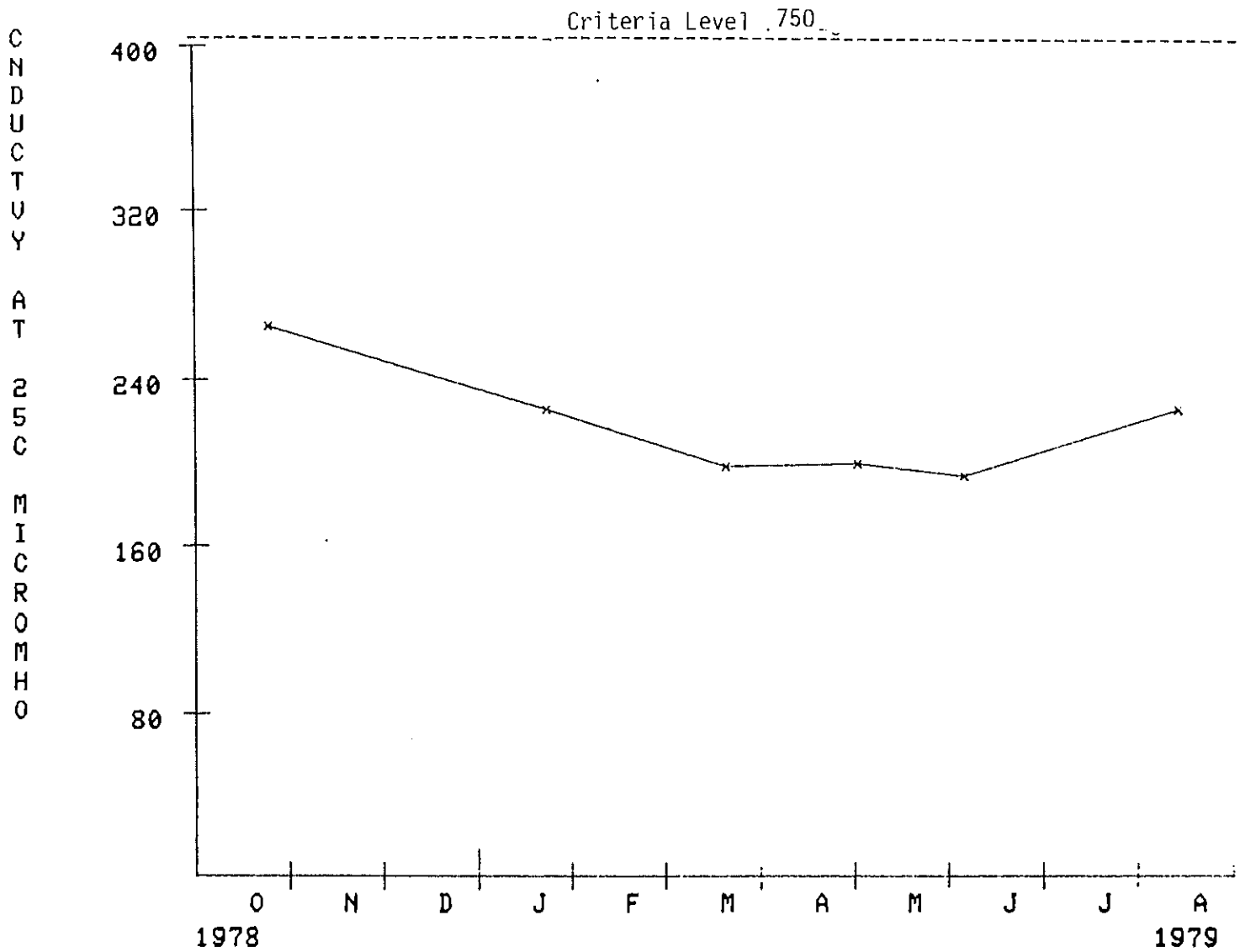
BIG CANYON CR AT MOUTH (HWY 12)



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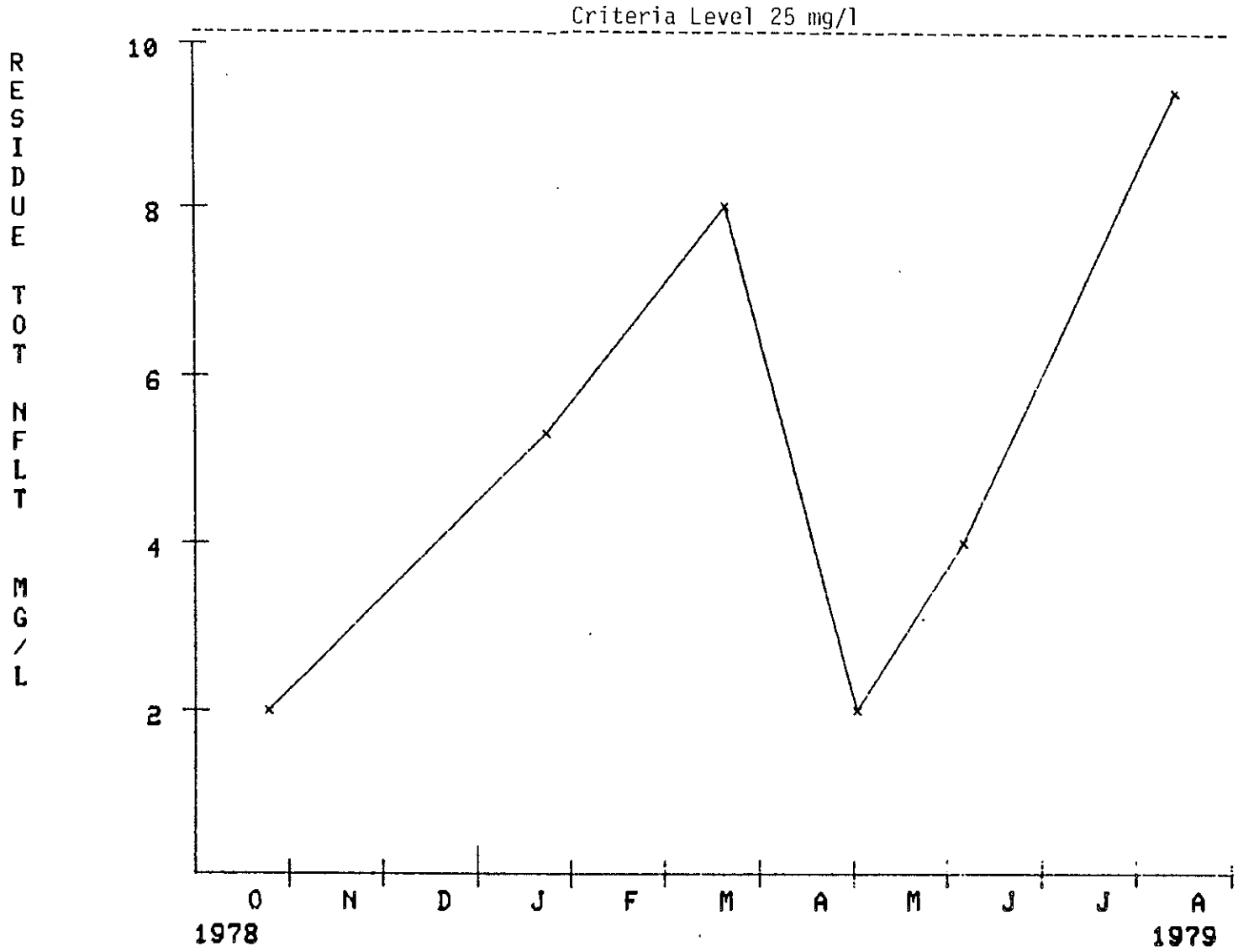
BIG CANYON CR AT MOUTH (HWY 12)



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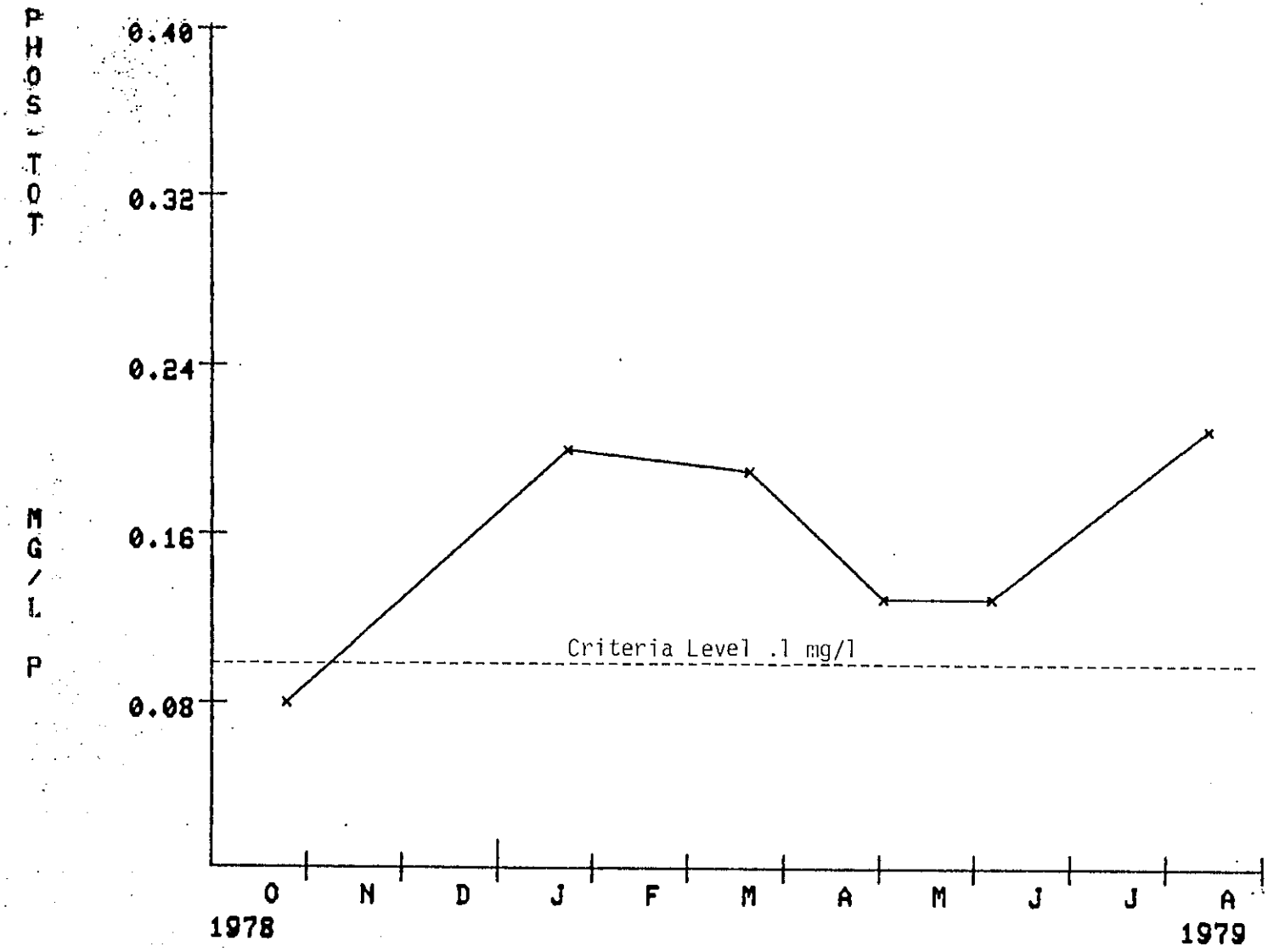
BIG CANYON CR AT MOUTH (HWY 12)



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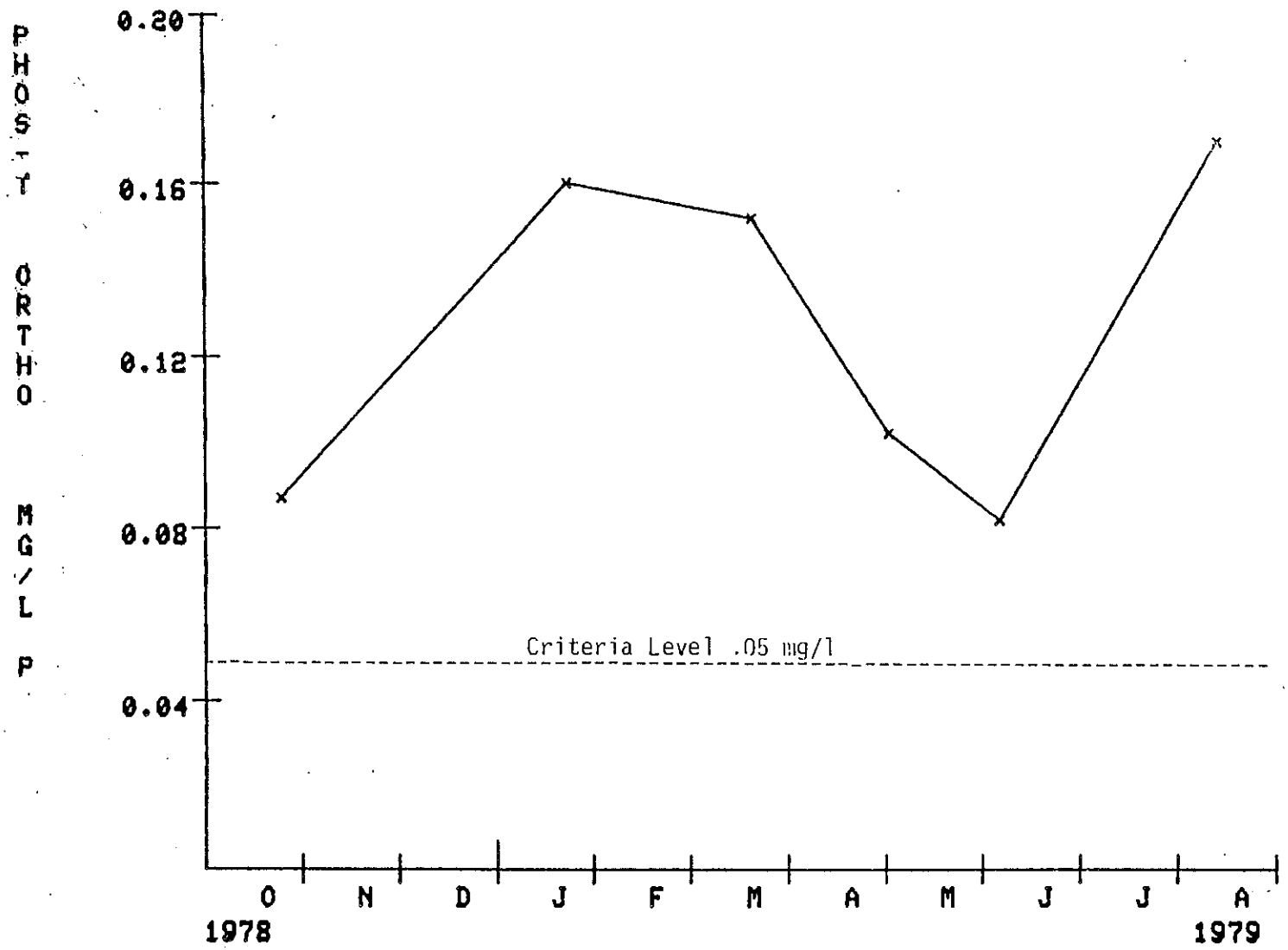
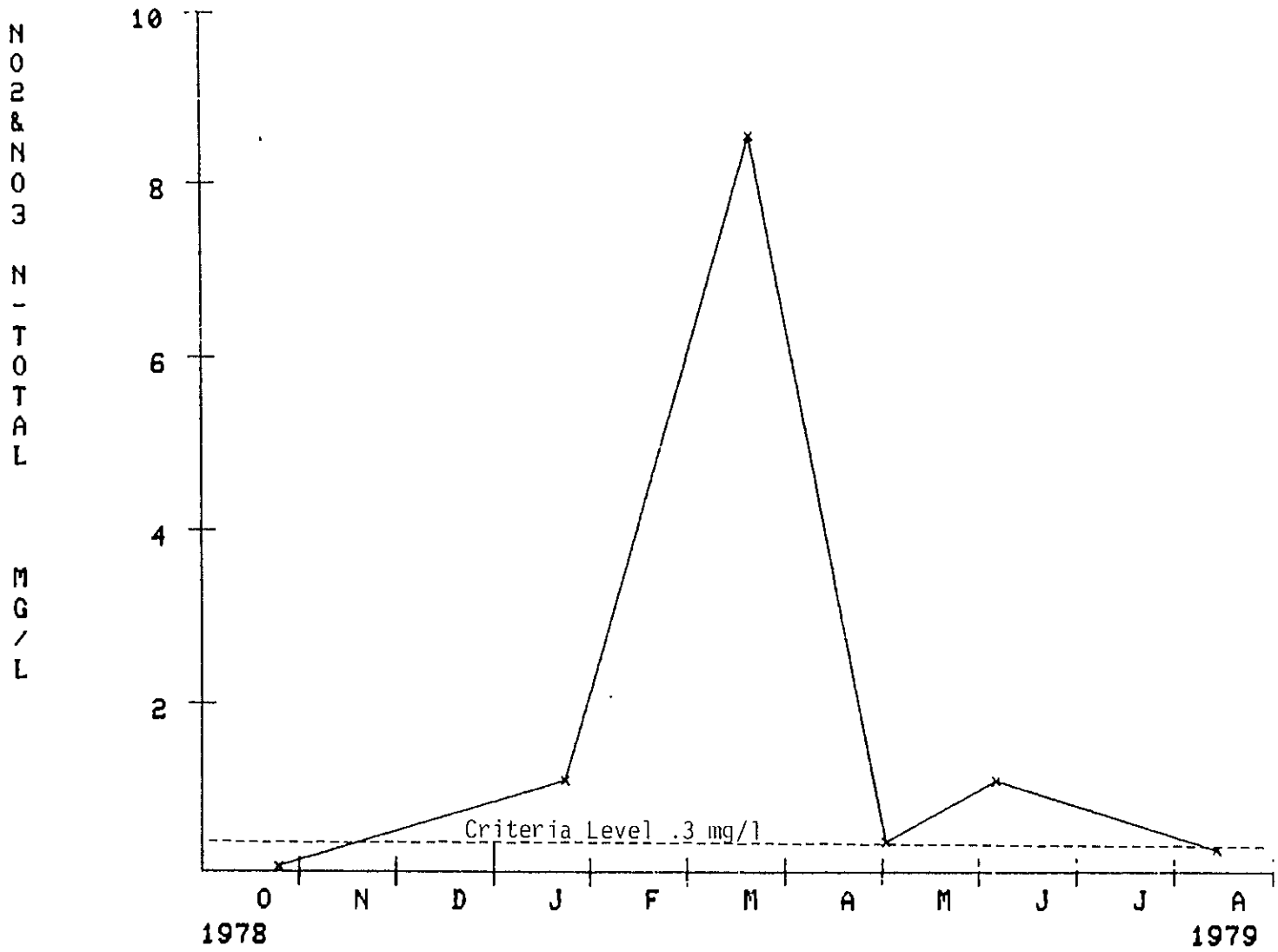
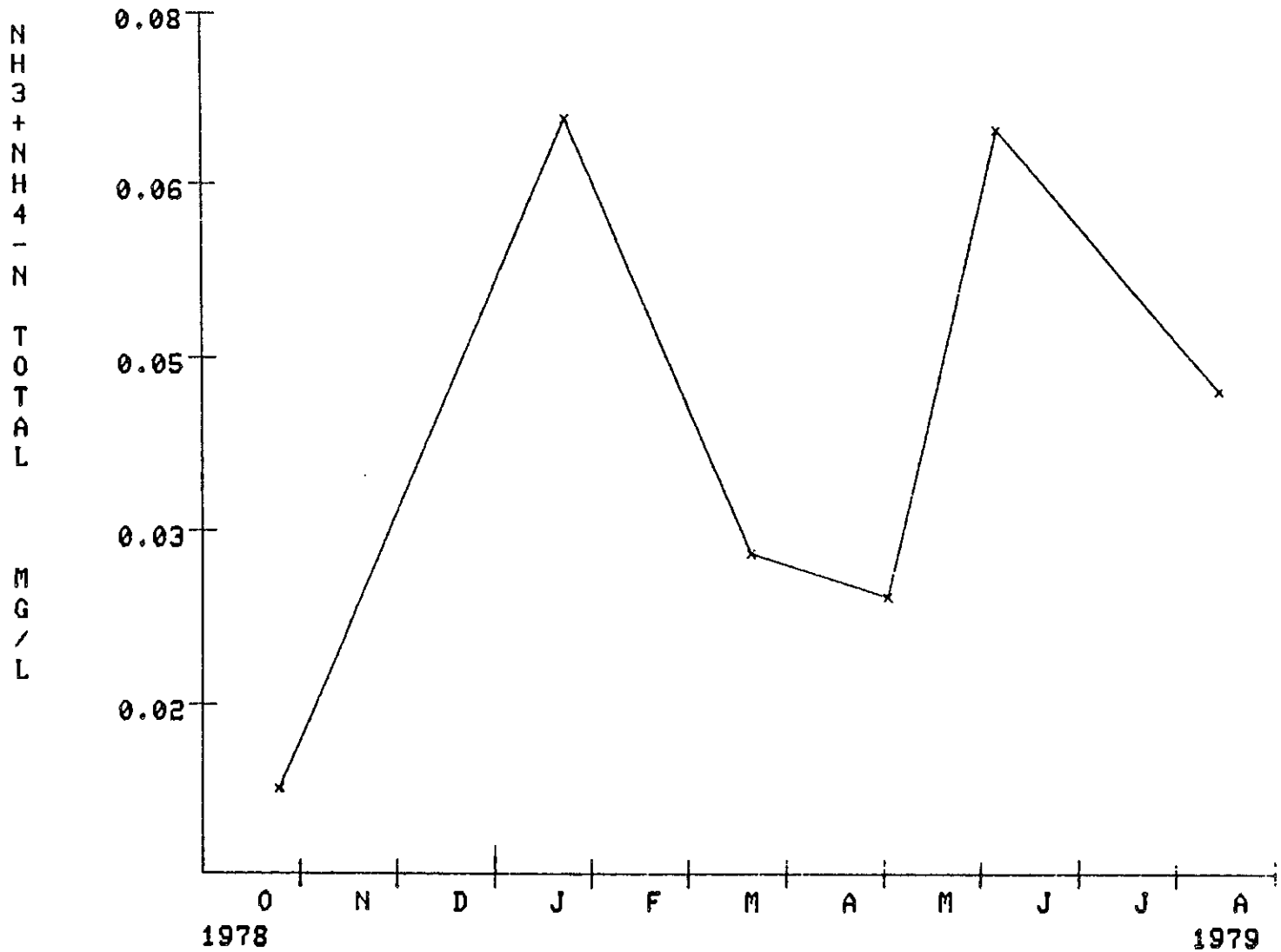
BIG CANYON CR AT MOUTH (HWY 12)



STORET STATION 2020138
BIG CANYON CR AT MOUTH (HWY 12)

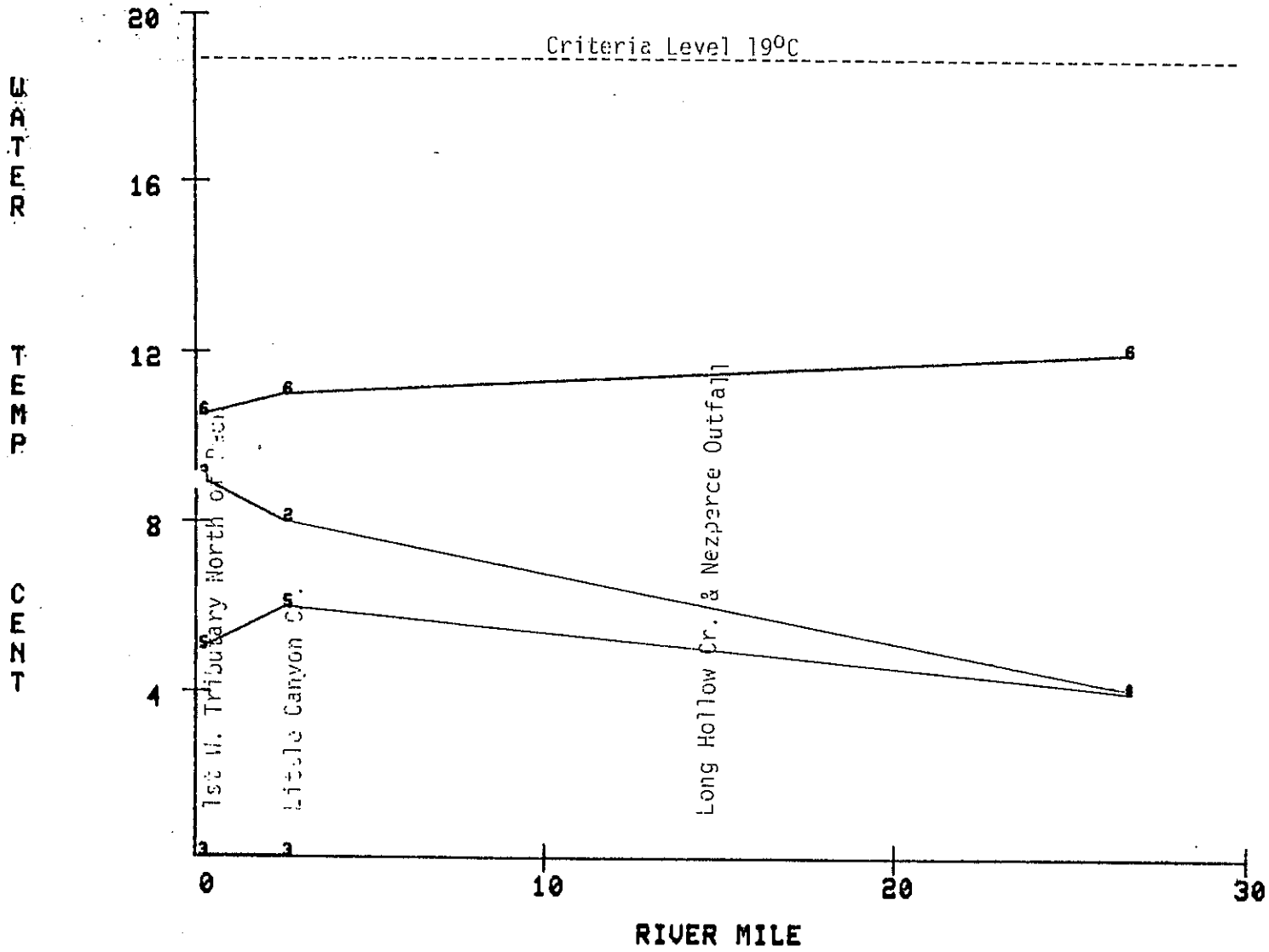


STORET STATION 2020138
BIG CANYON CR AT MOUTH (HWY 12)

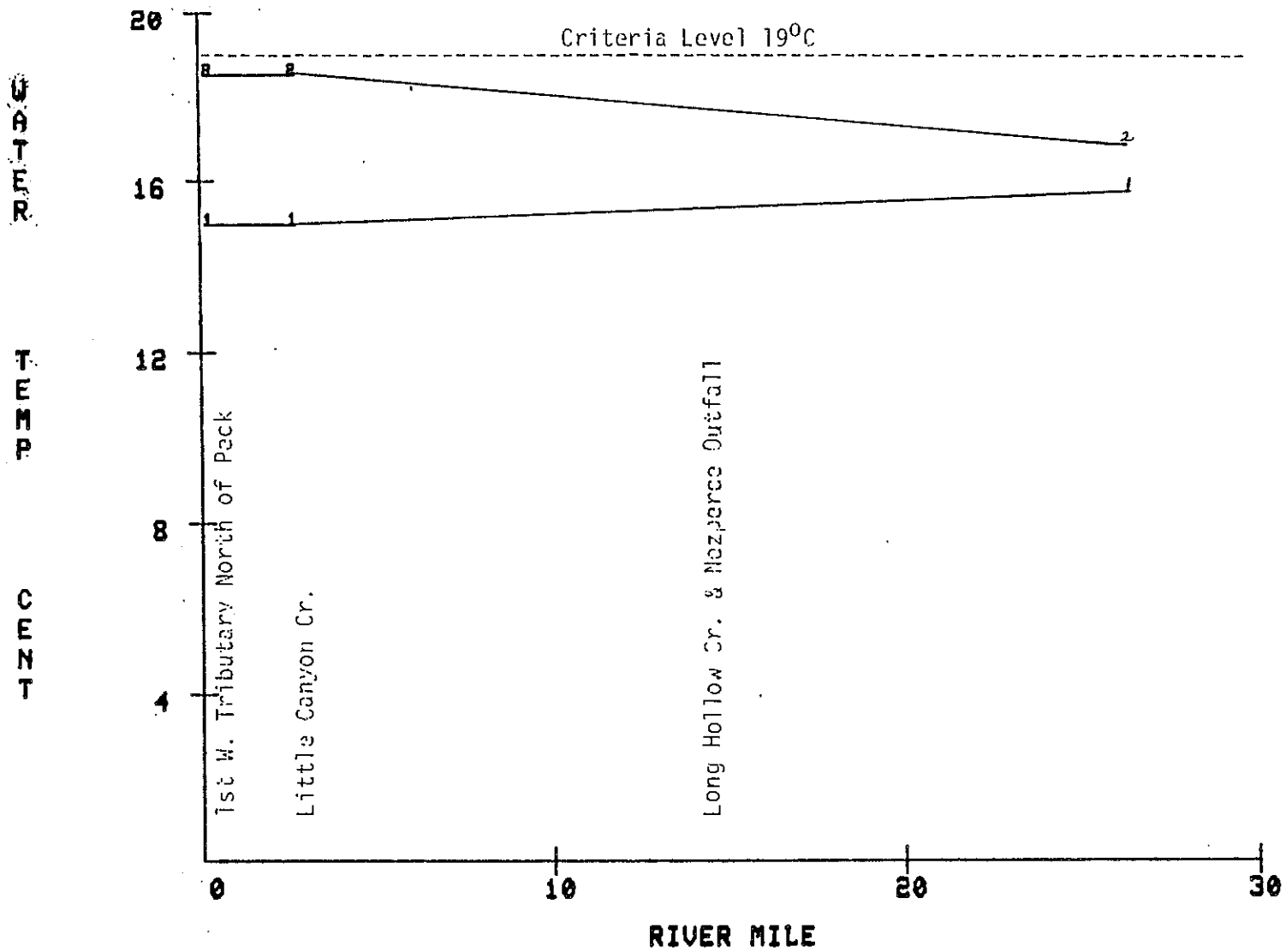


BIG CANYON CREEK
INTENSIVE SURVEY DATA FOR 6 DAYS OF MONITORING

1 : 10-23-78 2 : 10-24-78 3 : 01-23-79
4 : 03-19-79 5 : 03-20-79 6 : 05-01-79



BIG CANYON CREEK
INTENSIVE SURVEY DATA FOR 2 DAYS OF MONITORING
1 : 06-05-79 2 : 06-14-79



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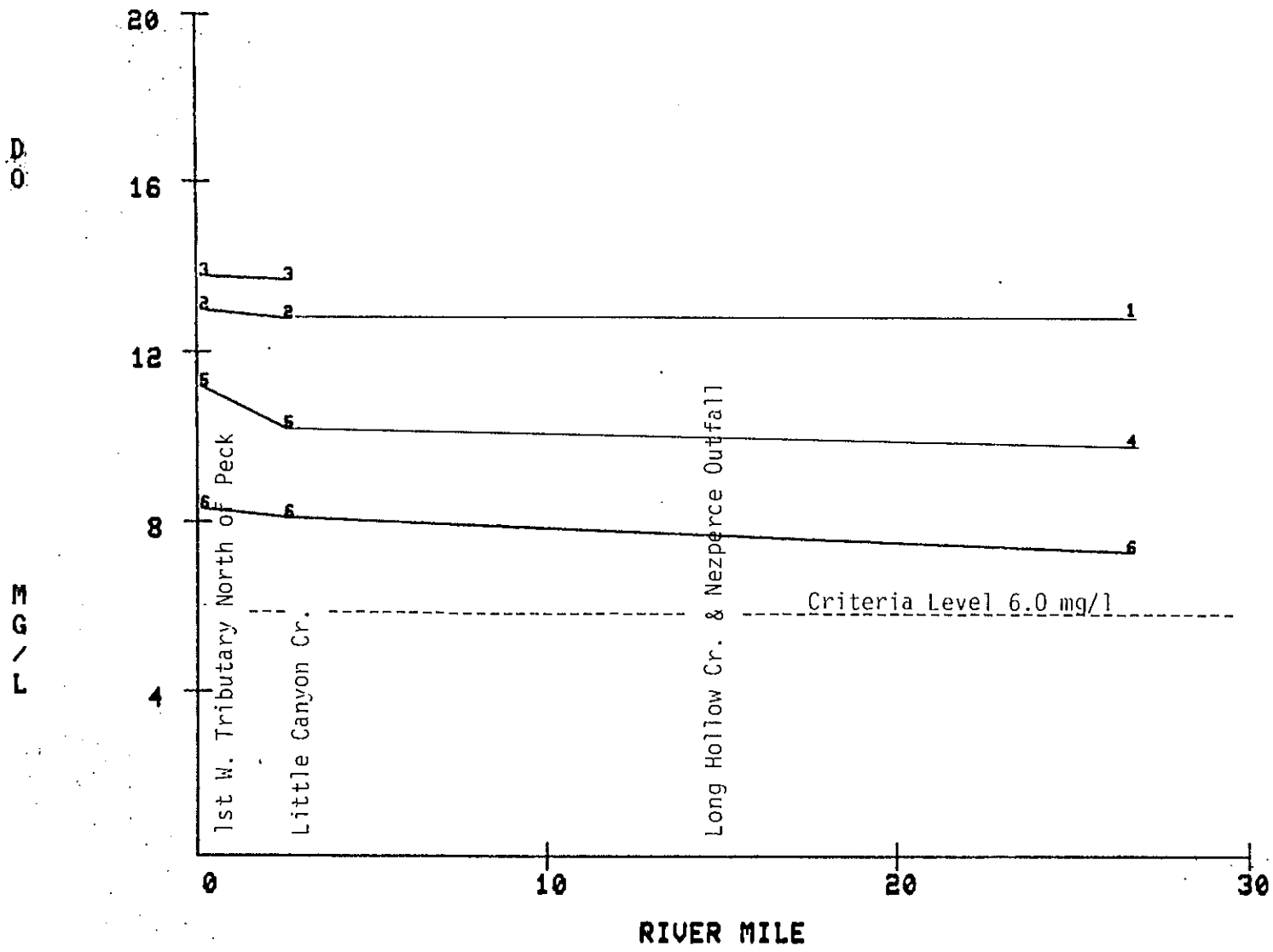

BIG CANYON CREEK
INTENSIVE SURVEY DATA FOR 2 DAYS OF MONITORING
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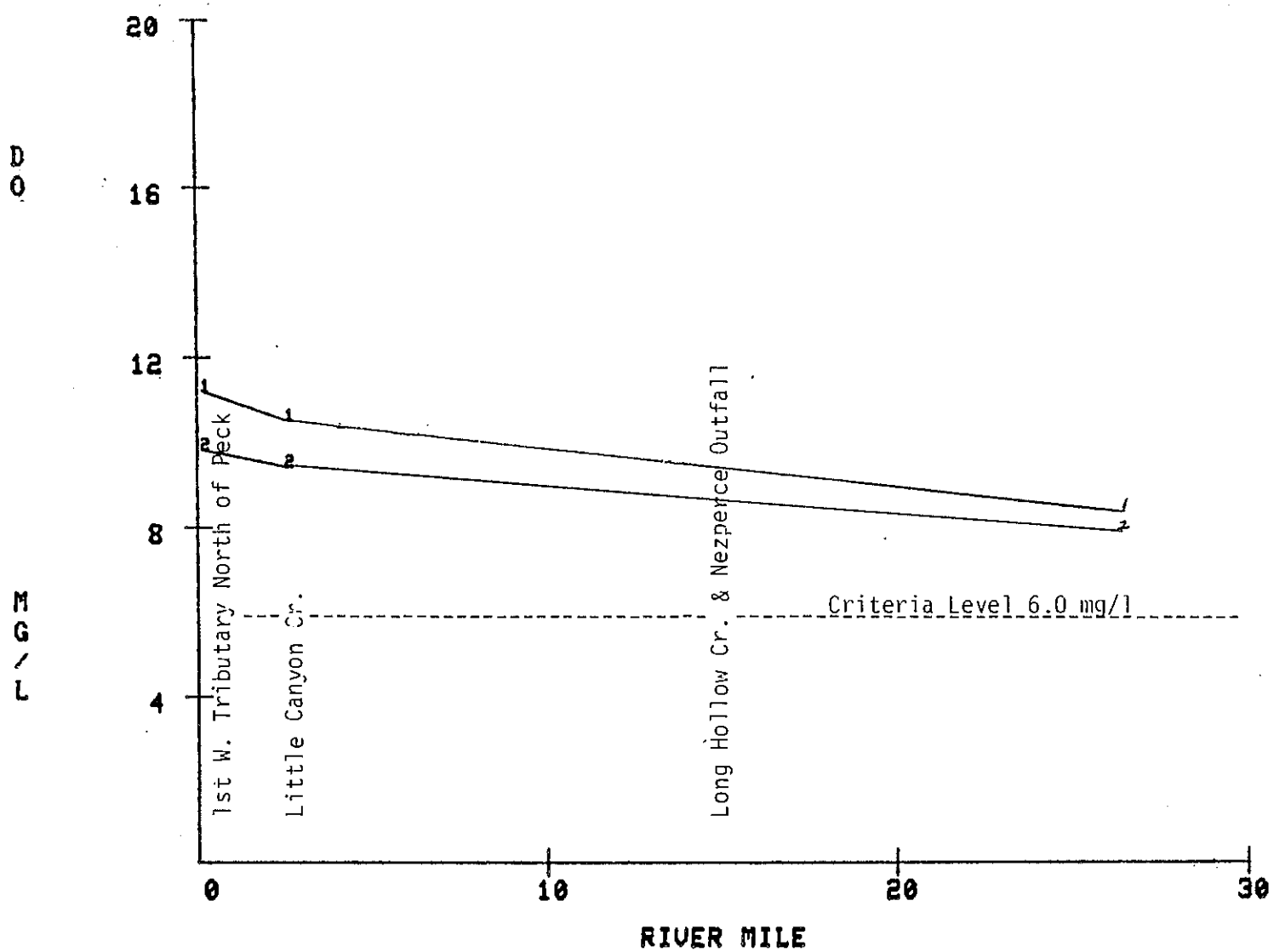

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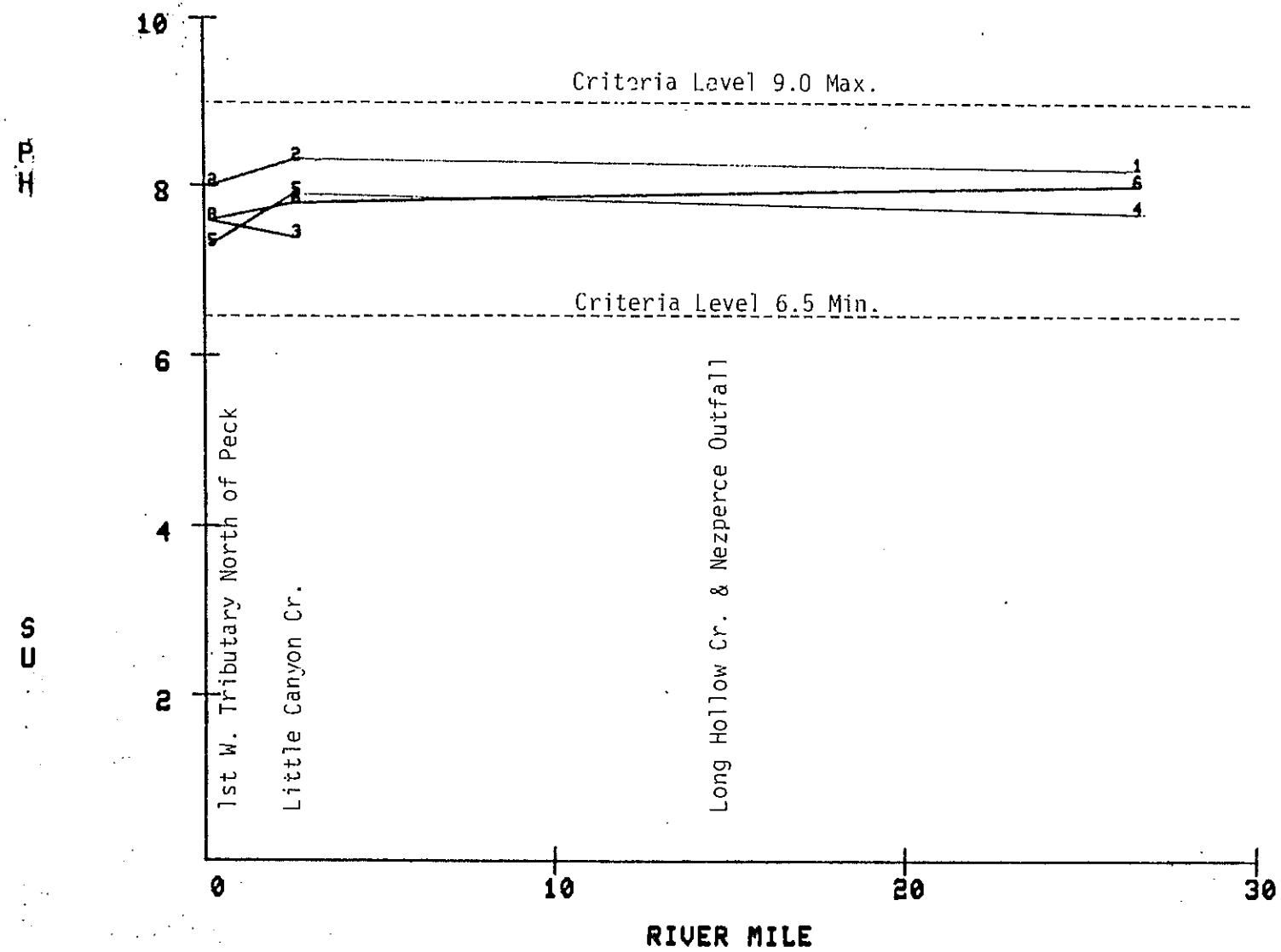
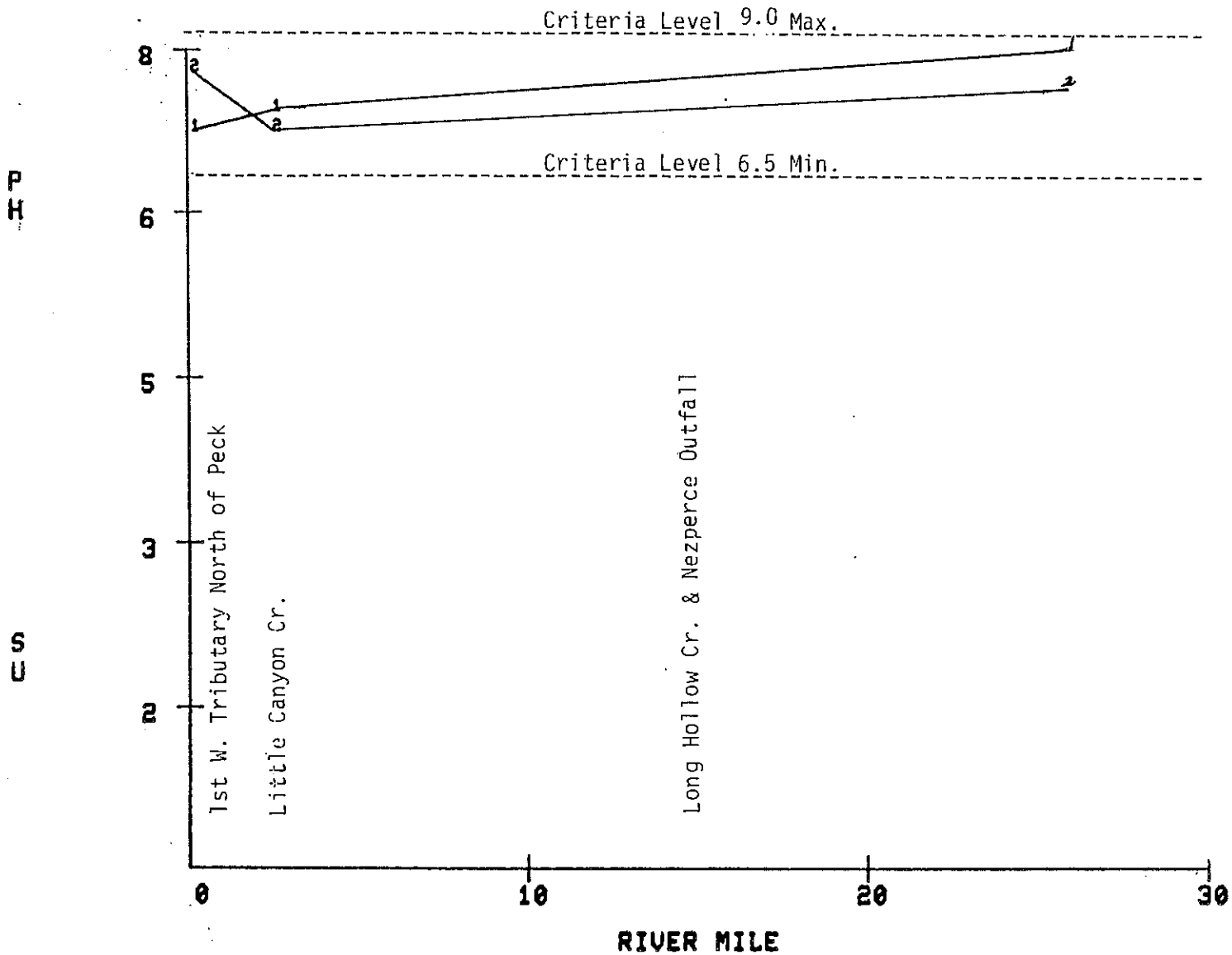


BIG CANYON CREEK
INTENSIVE SURVEY DATA FOR 2 DAYS OF MONITORING
1 : 06-05-79 2 : 08-14-79



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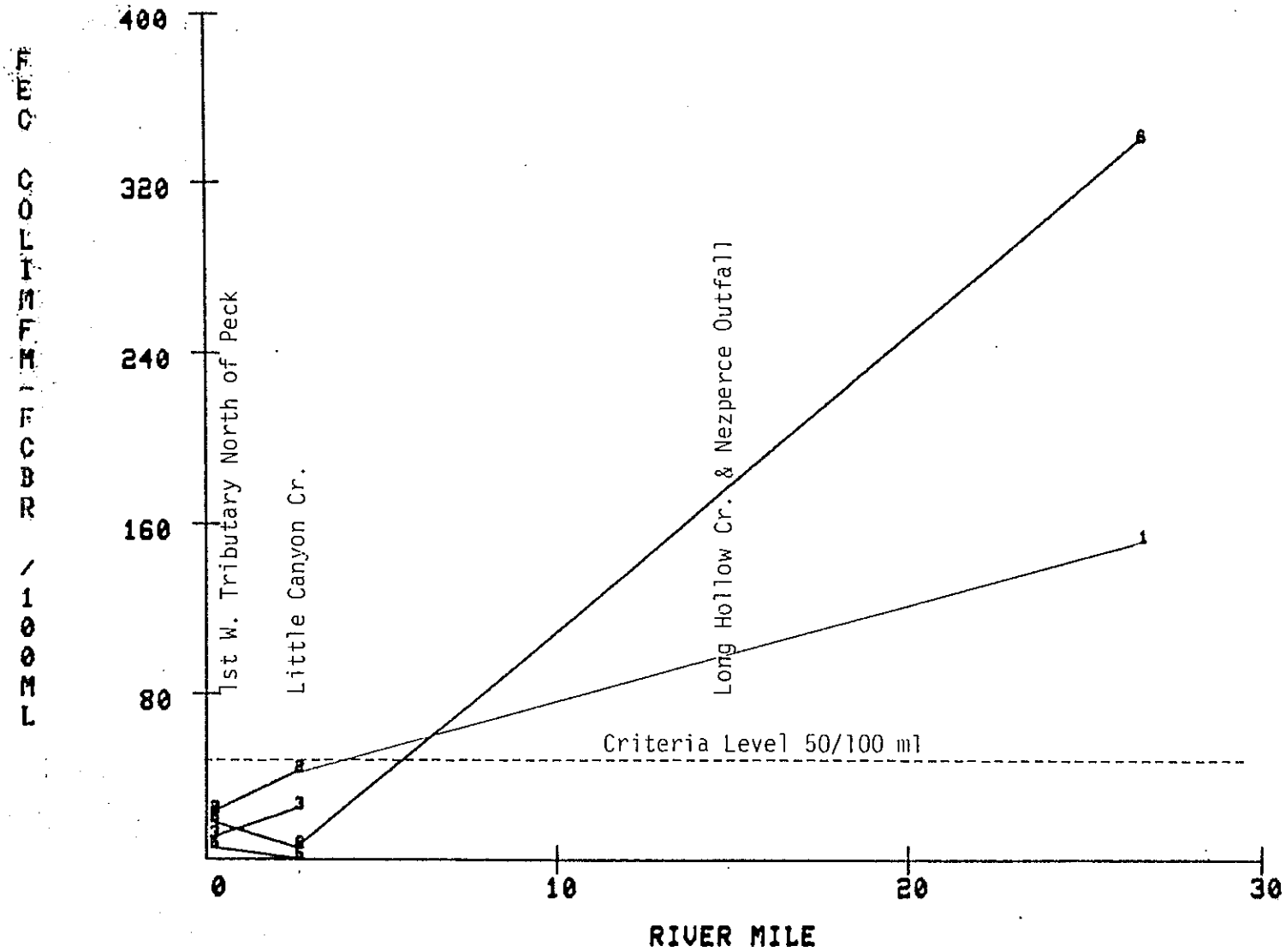

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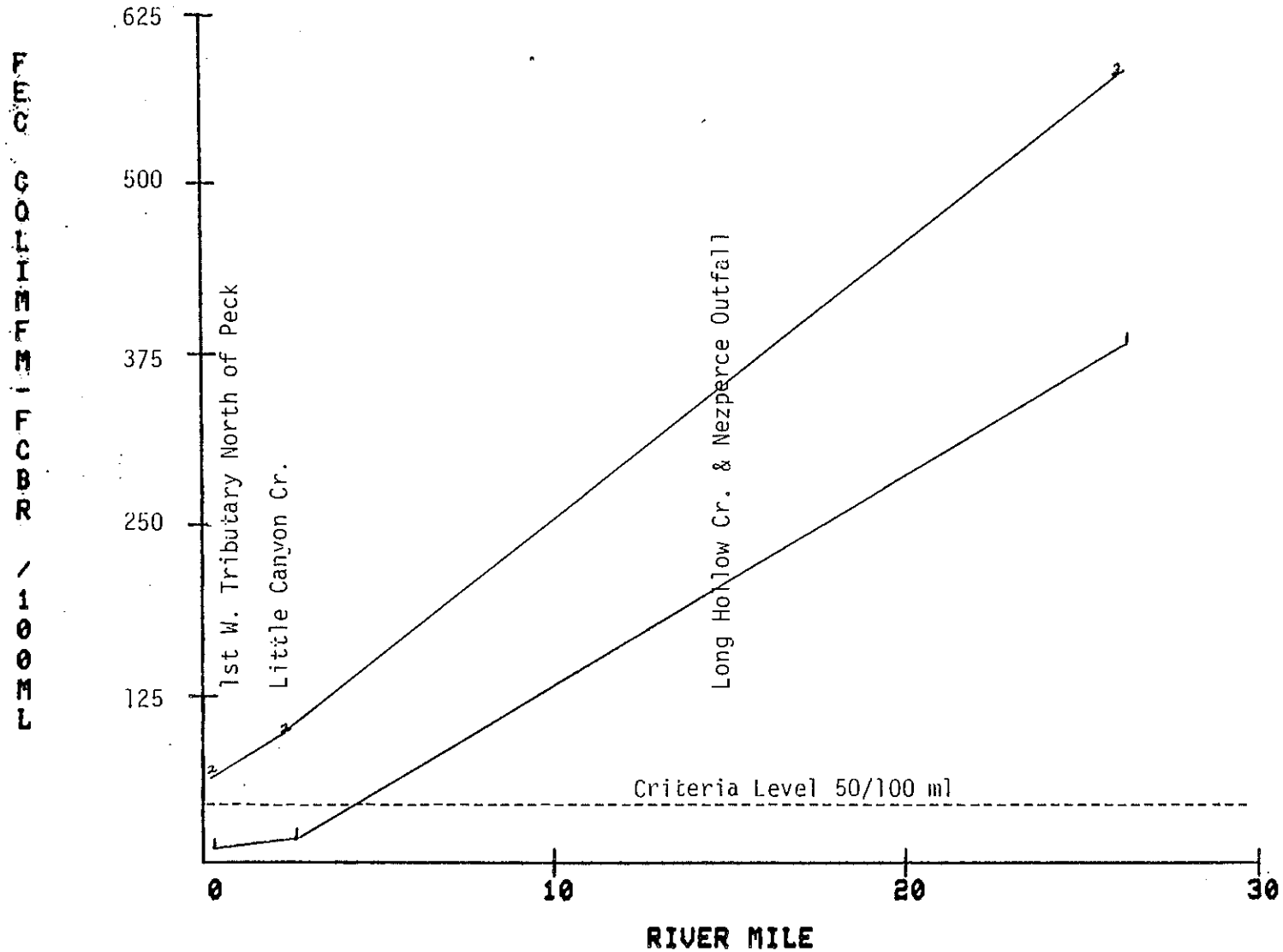

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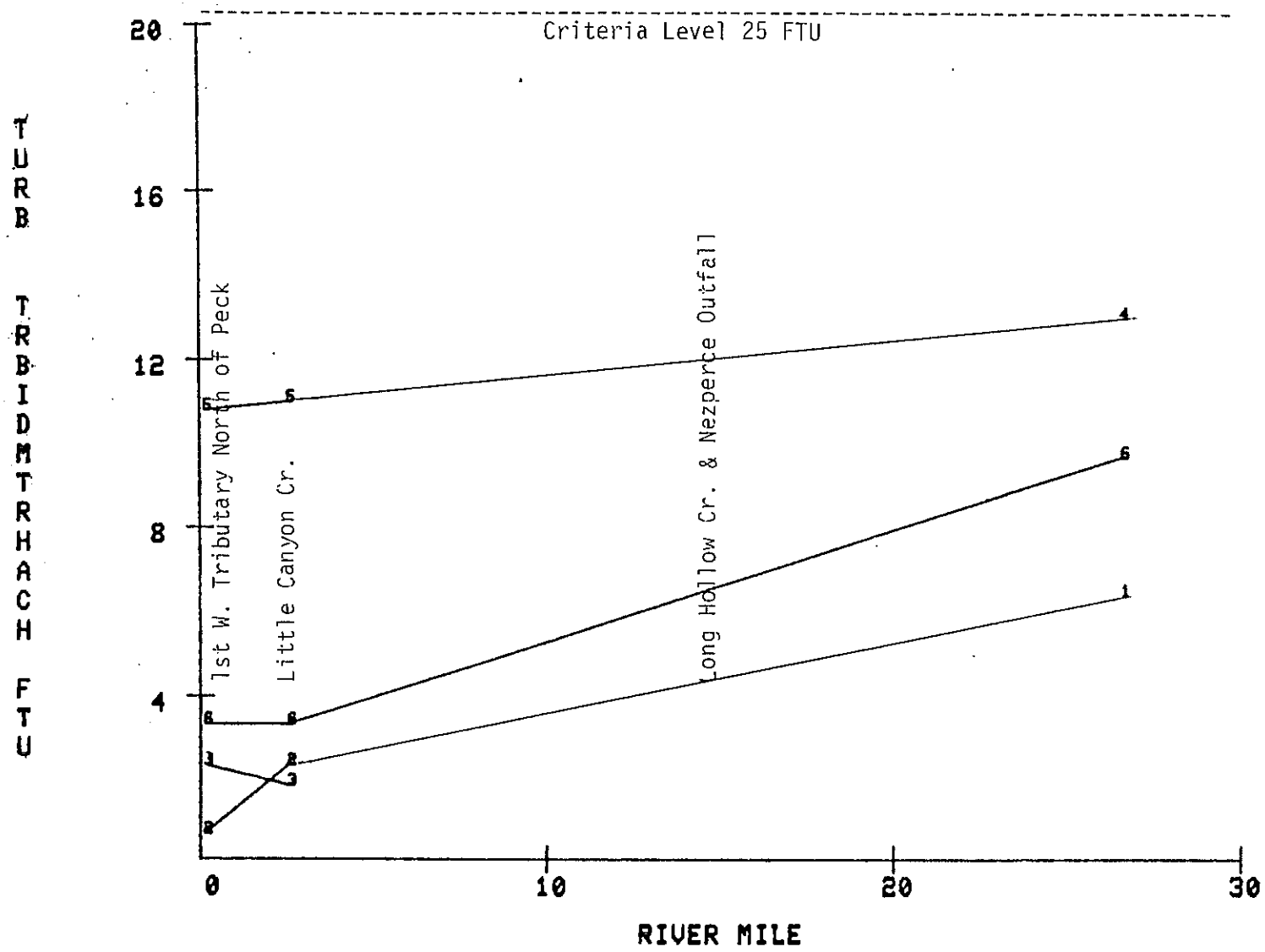

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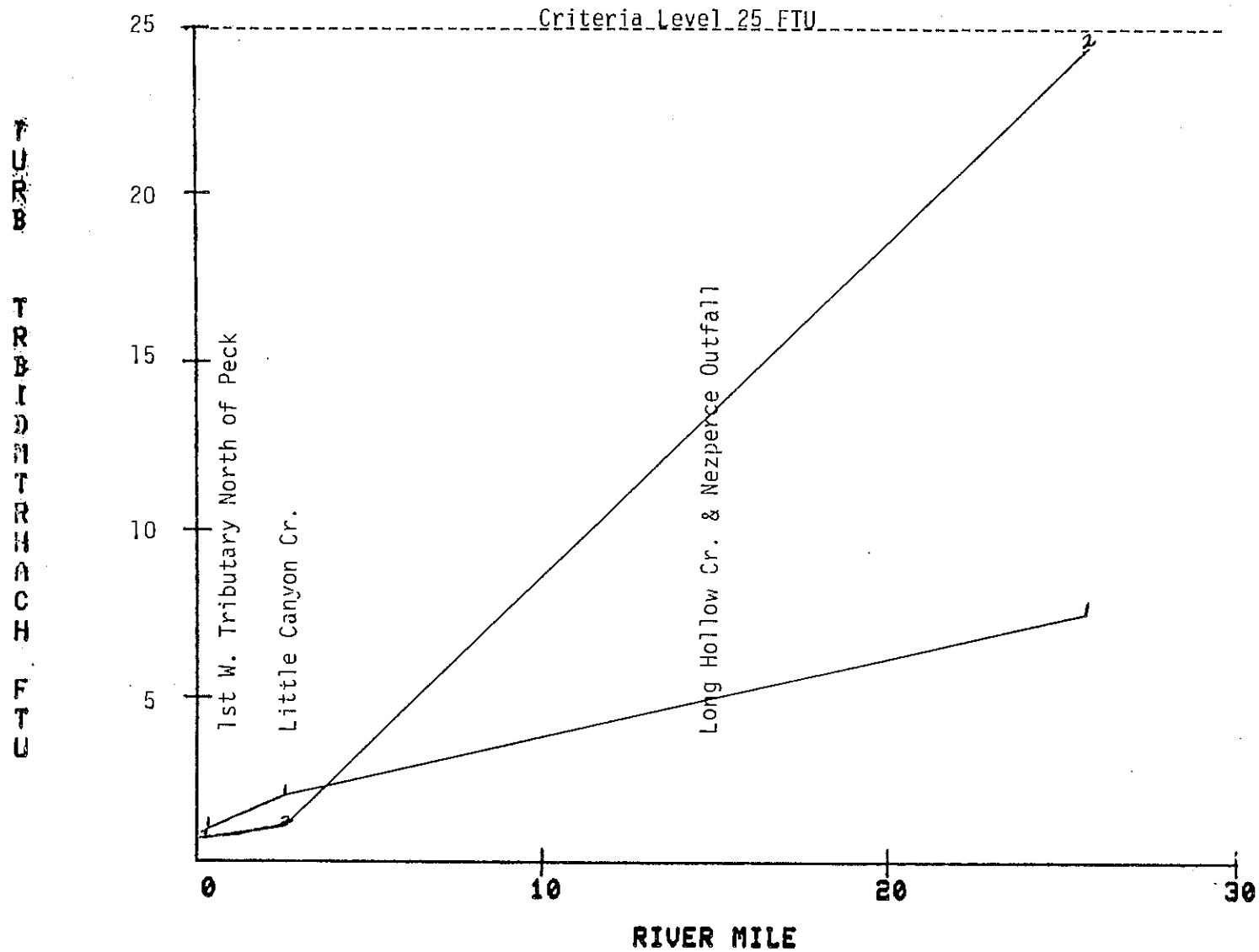

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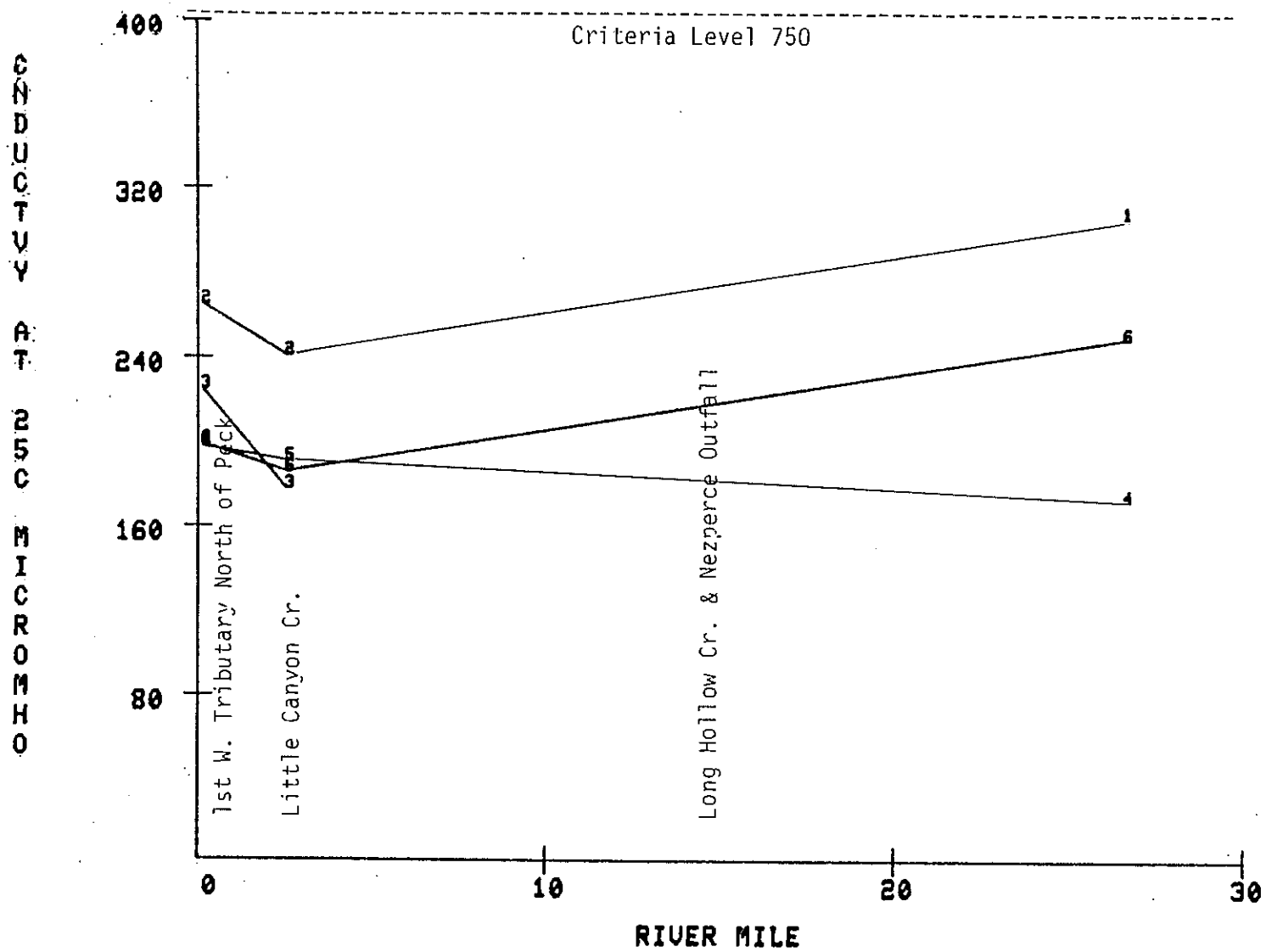

BIG CANYON CREEK
INTENSIVE SURVEY DATA FOR 2 DAYS OF MONITORING
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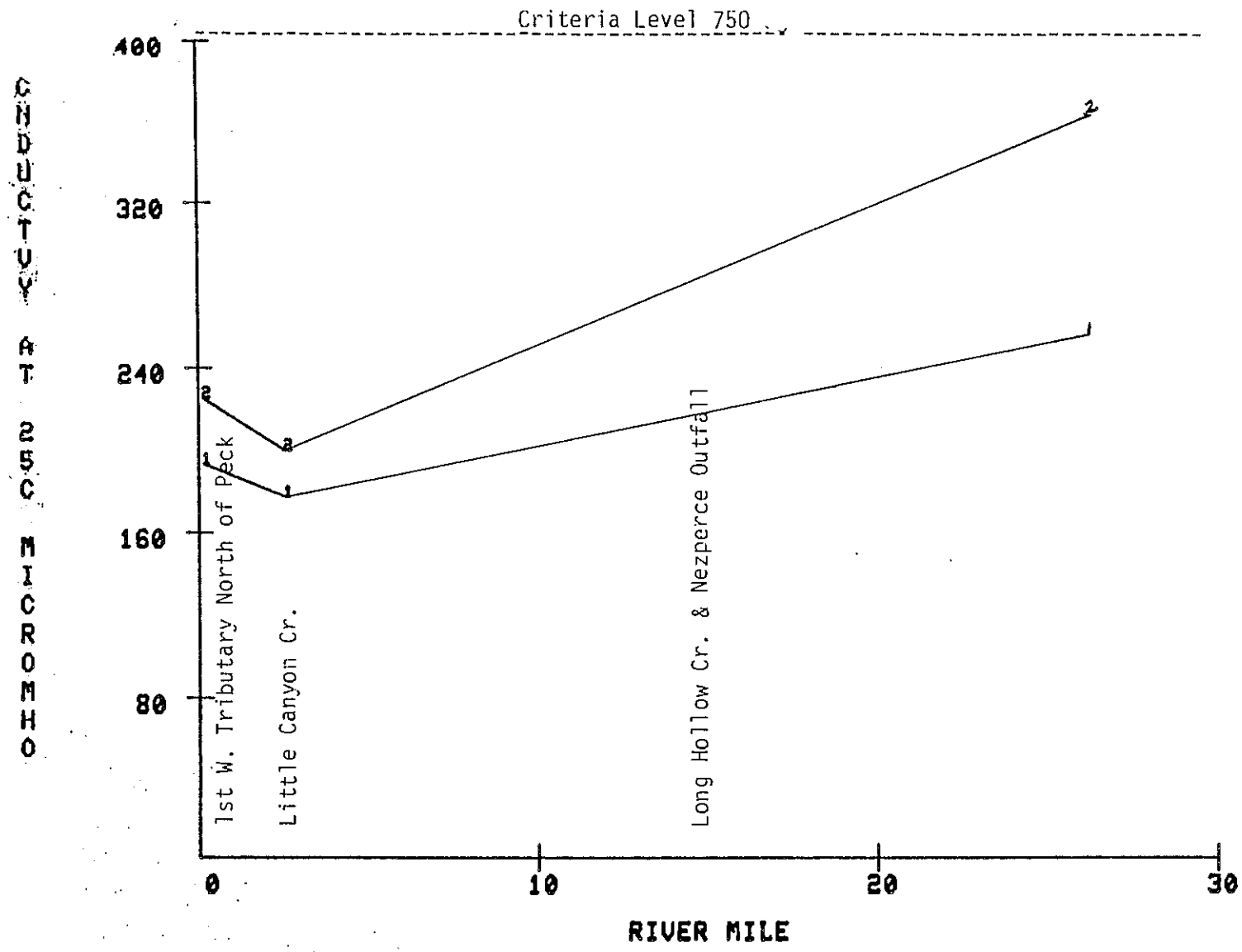

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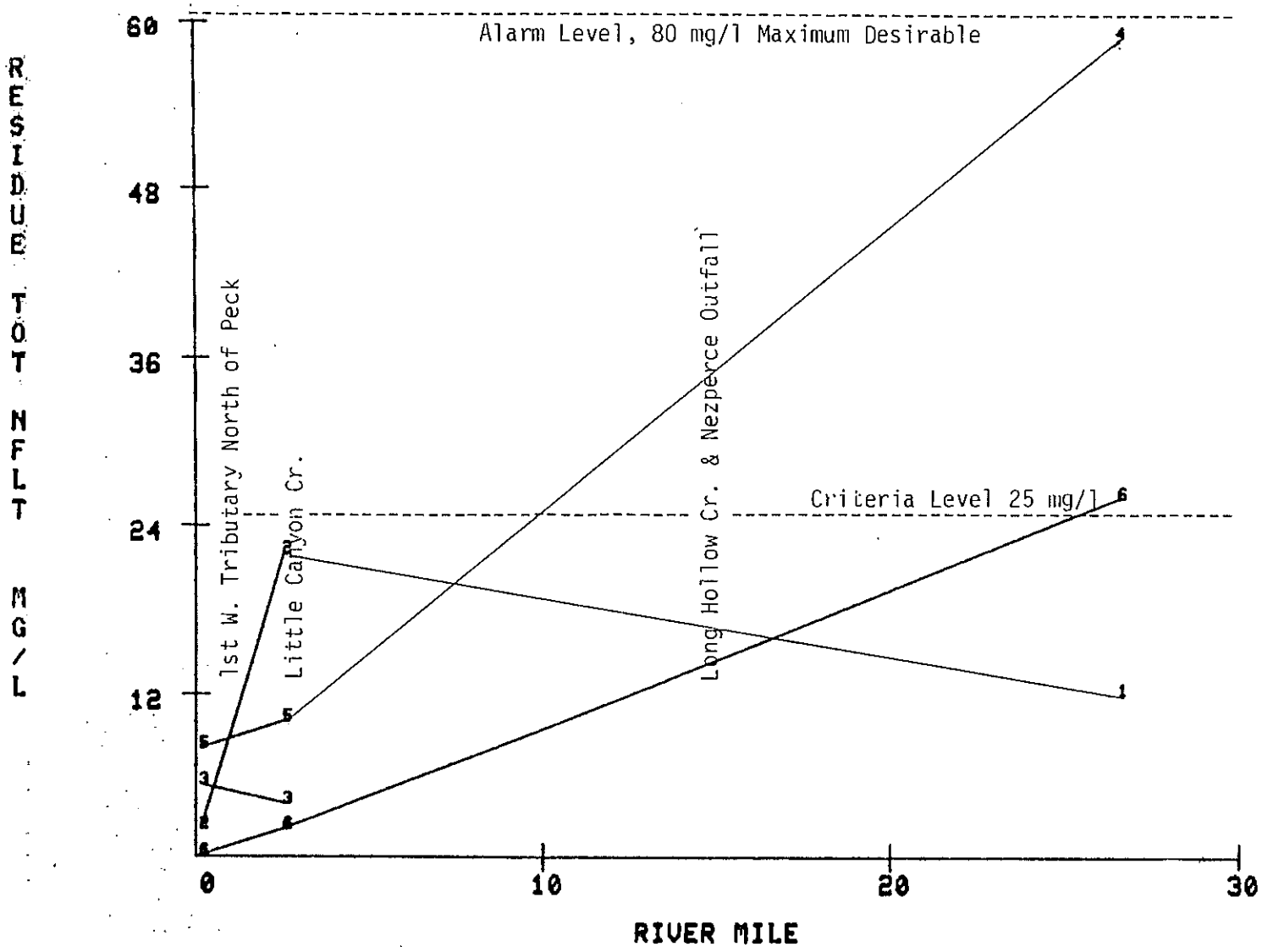

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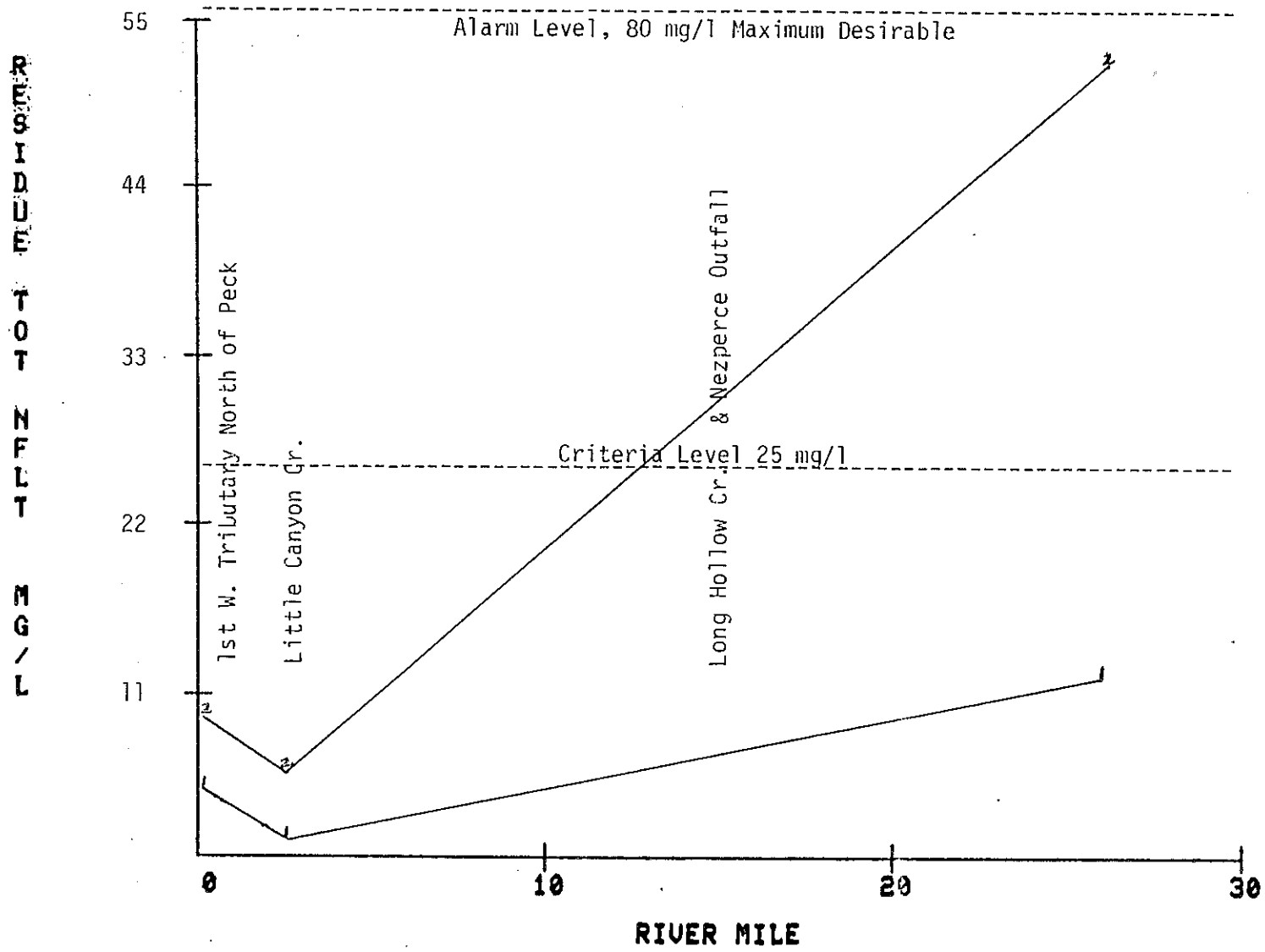

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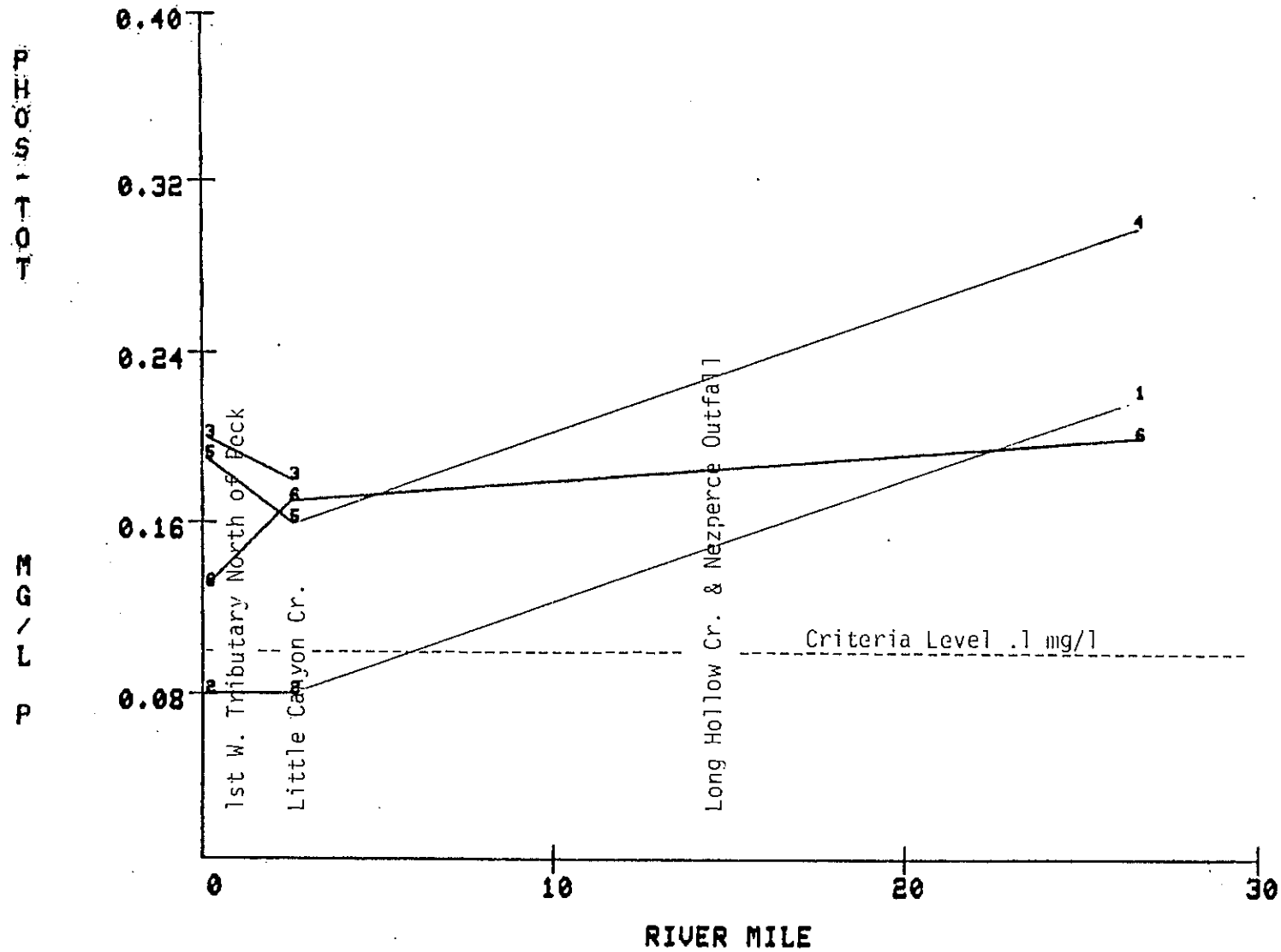

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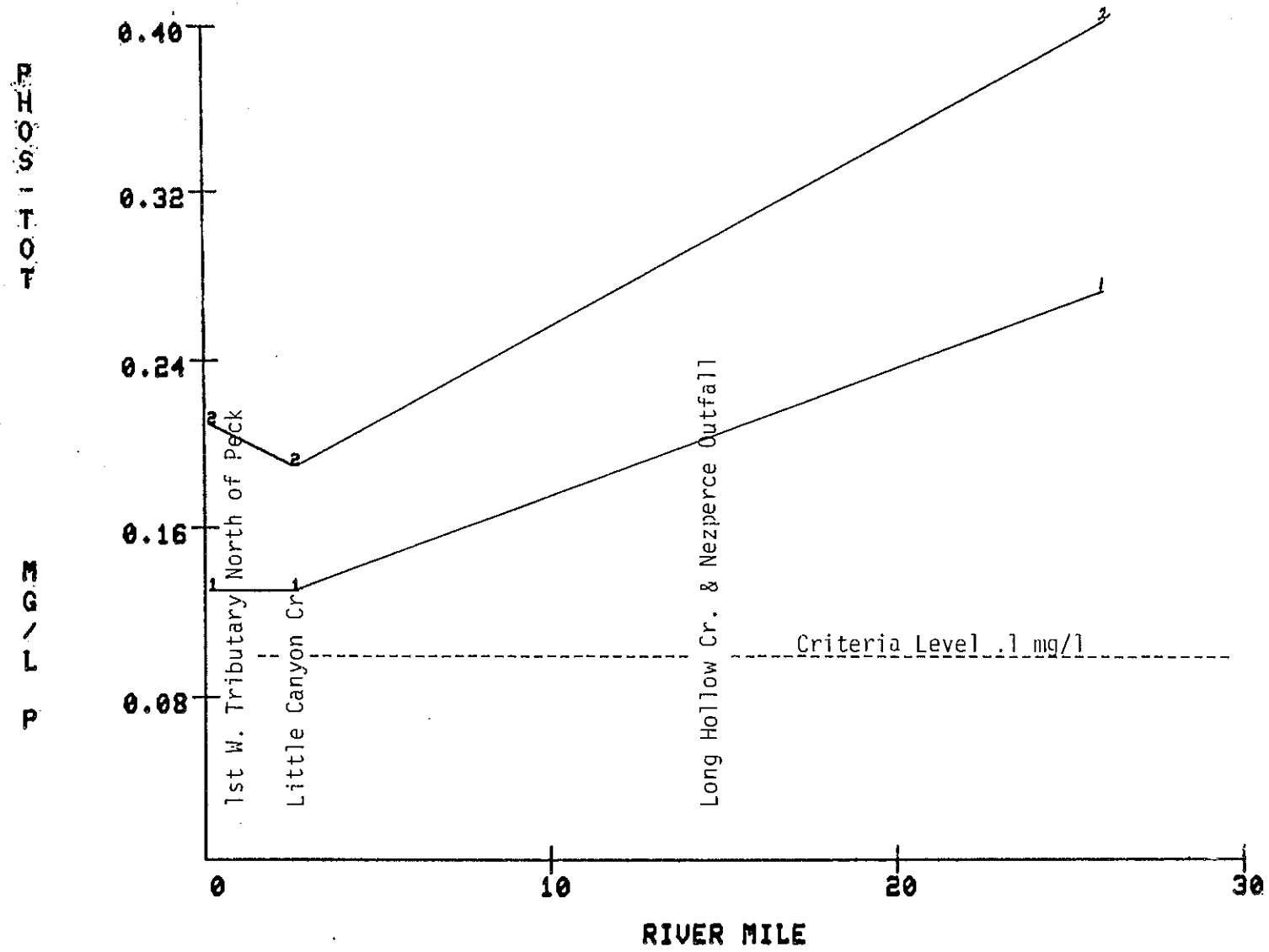

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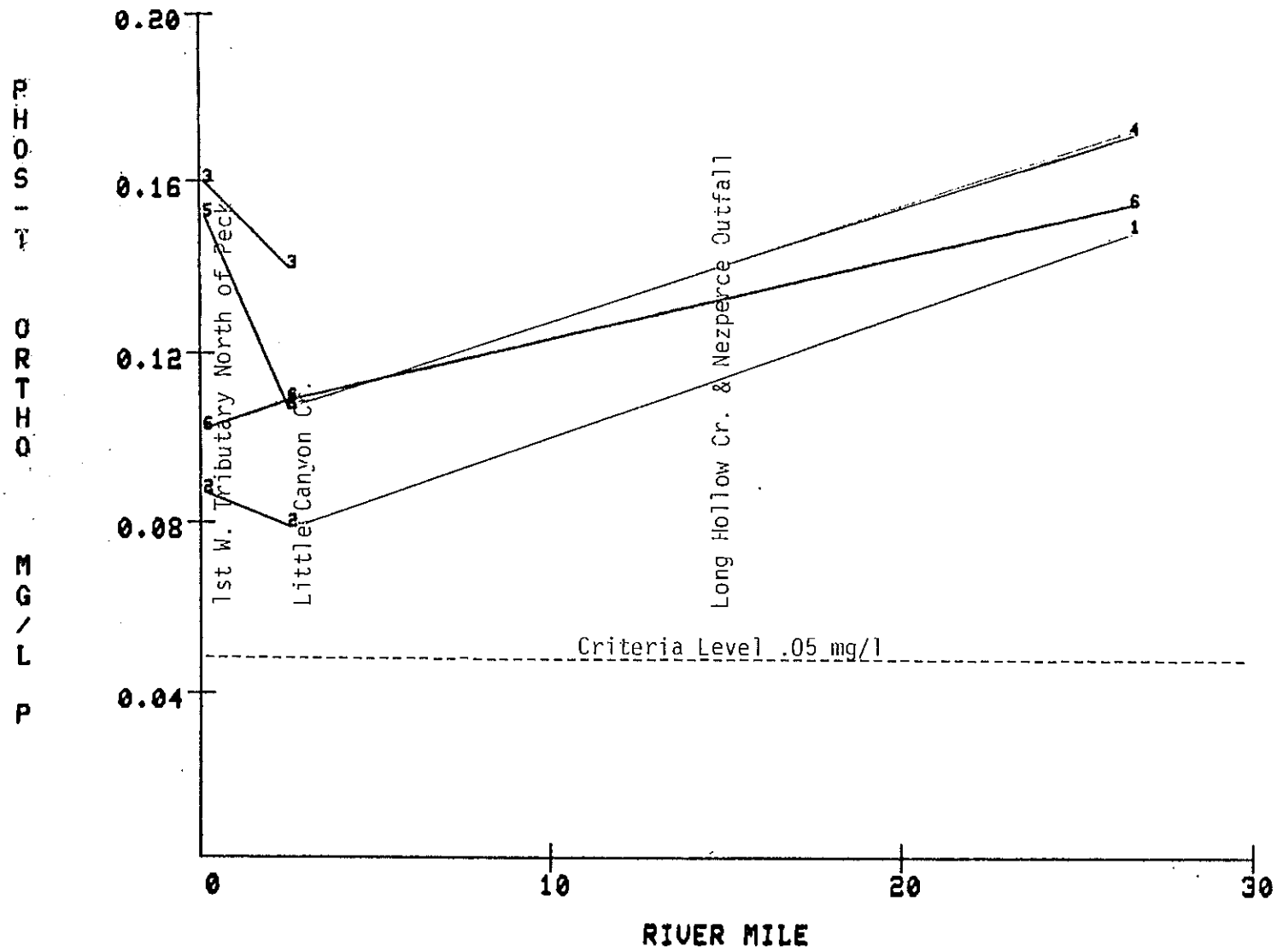

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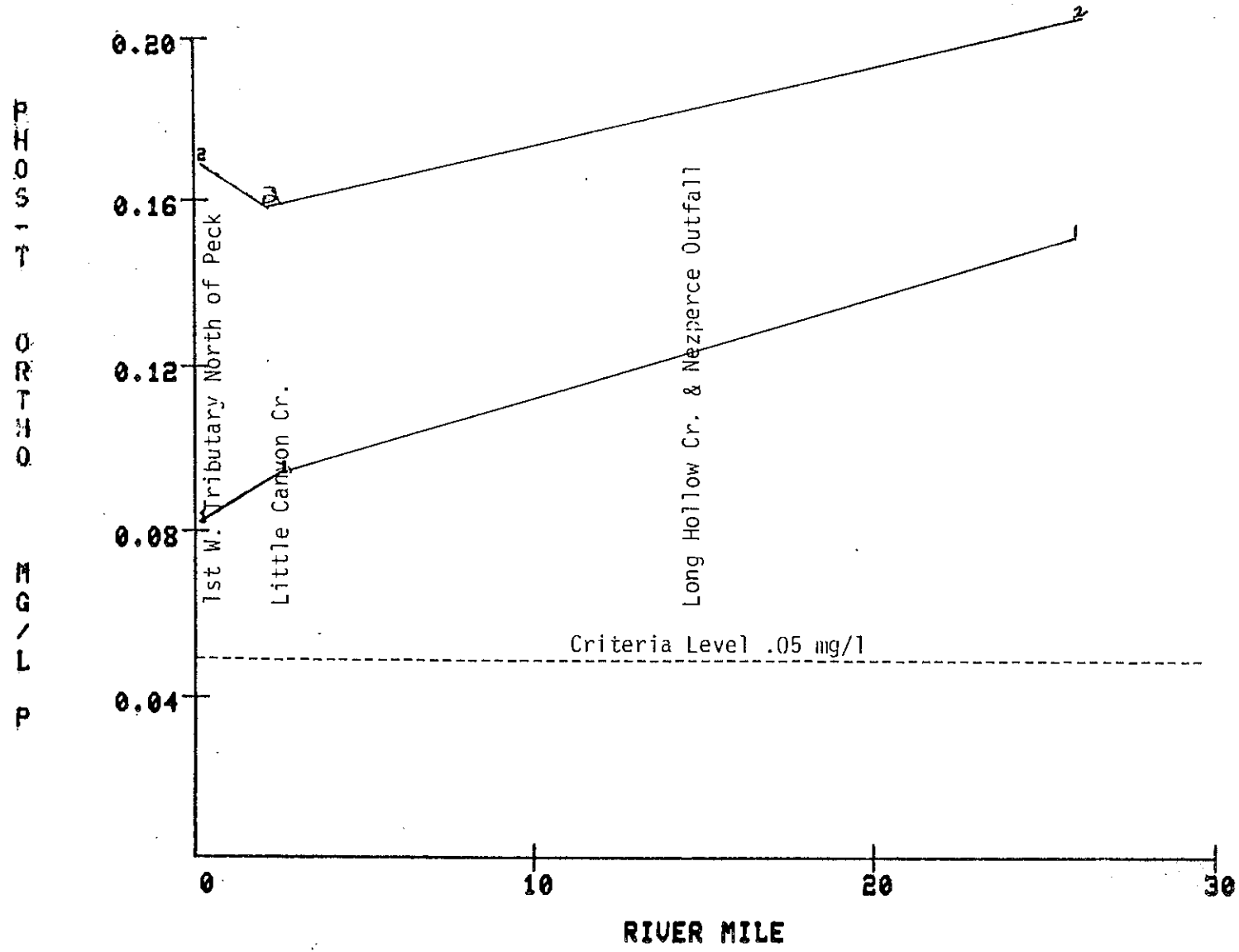

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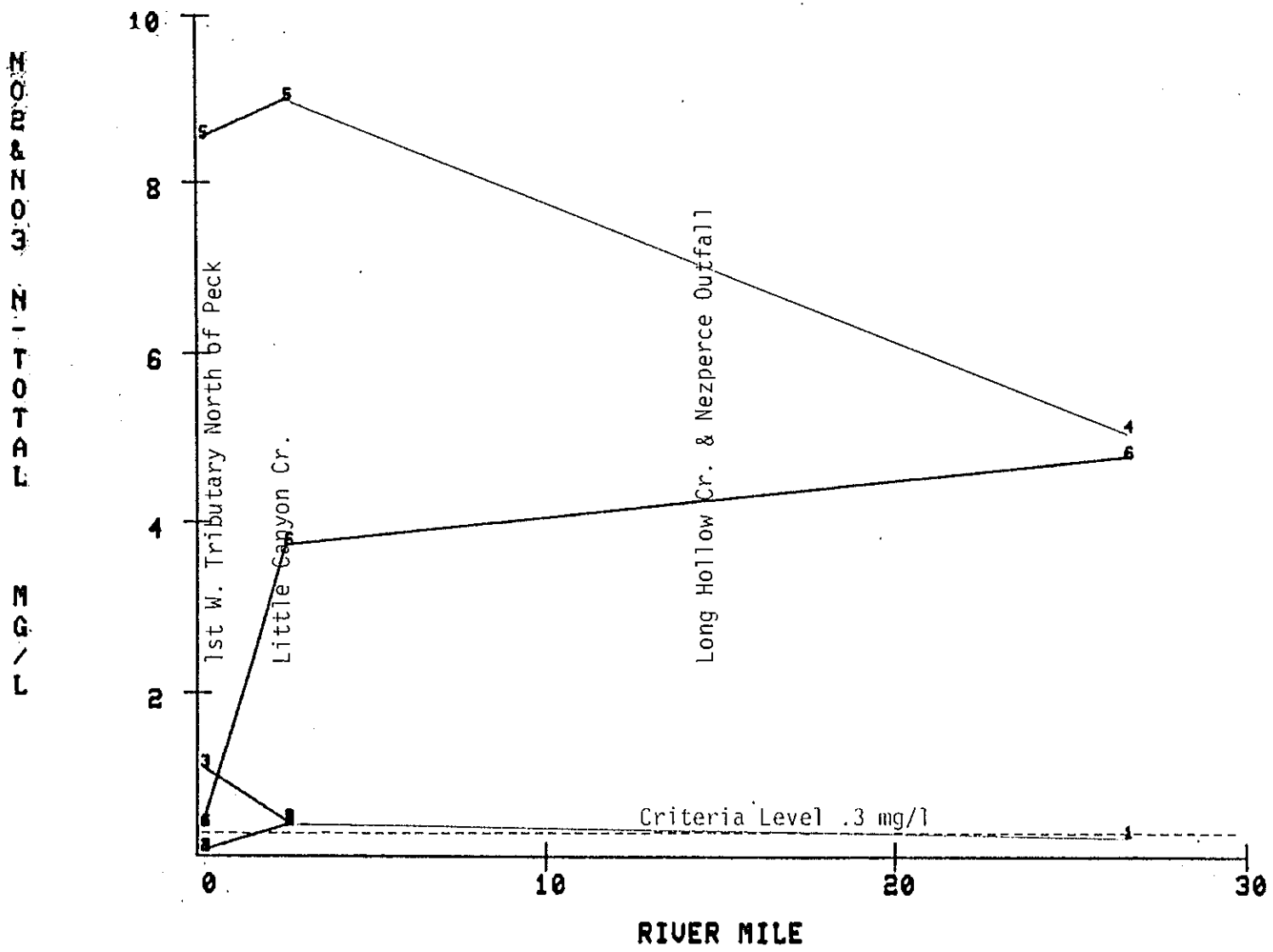

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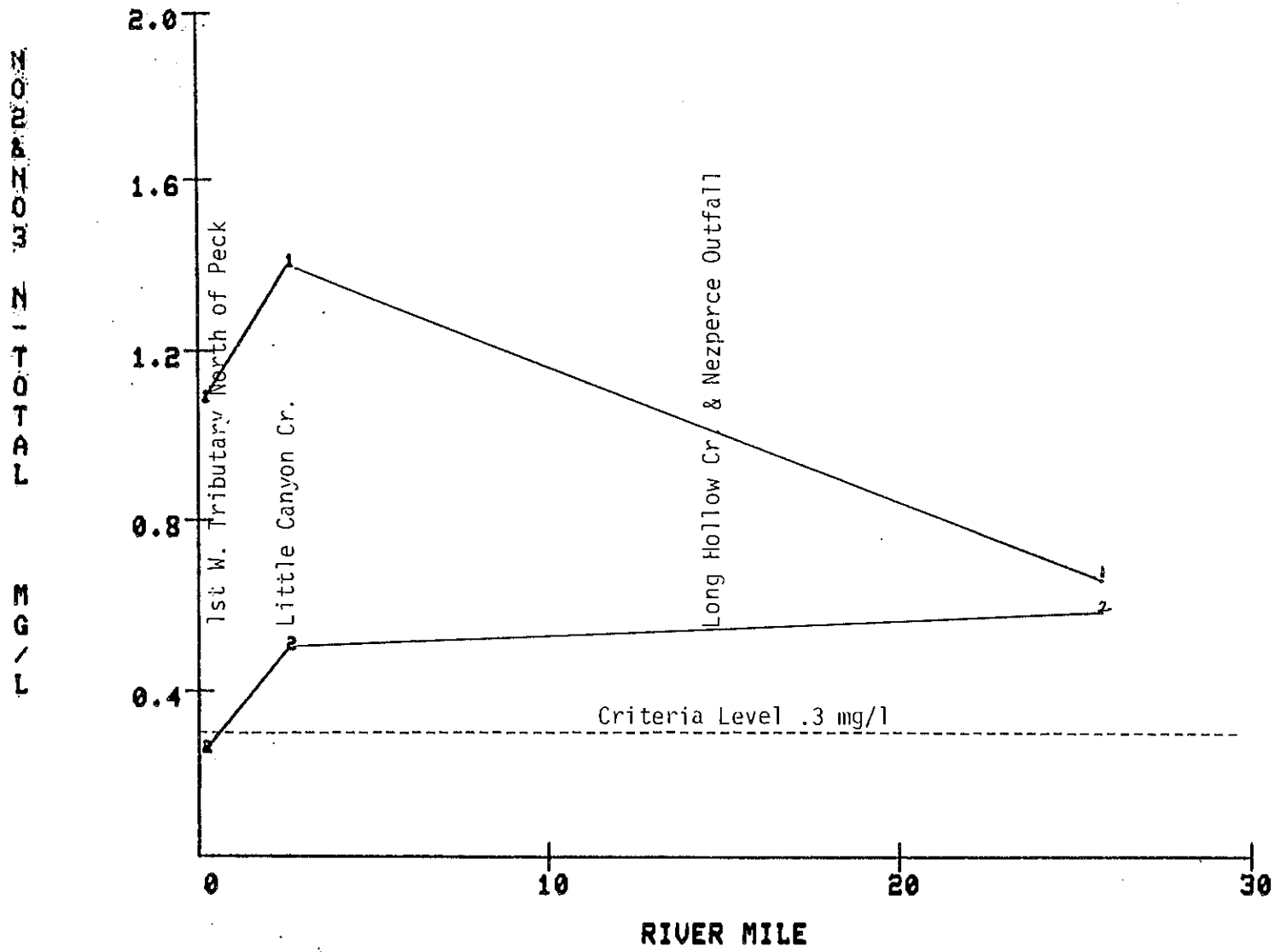

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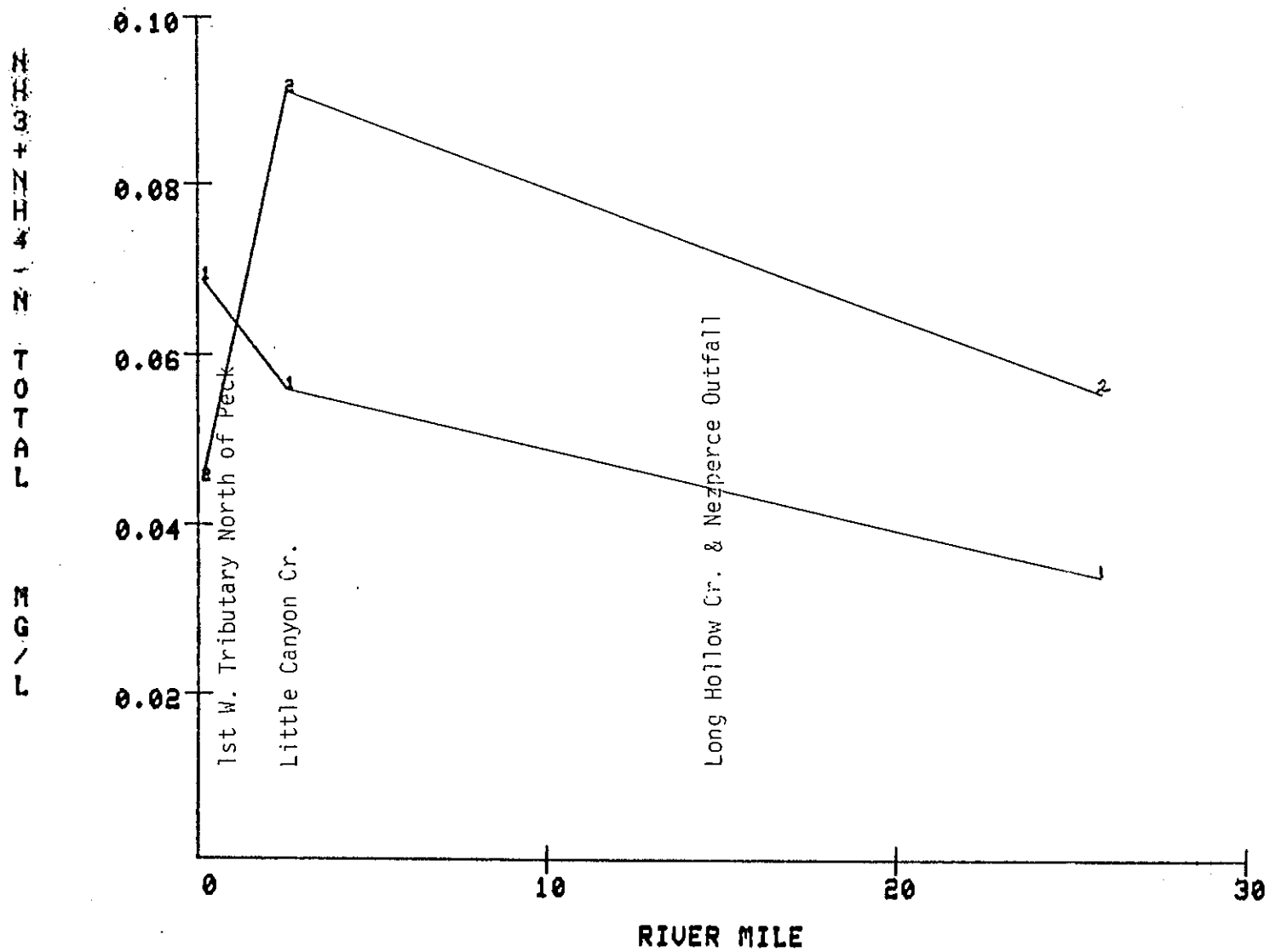

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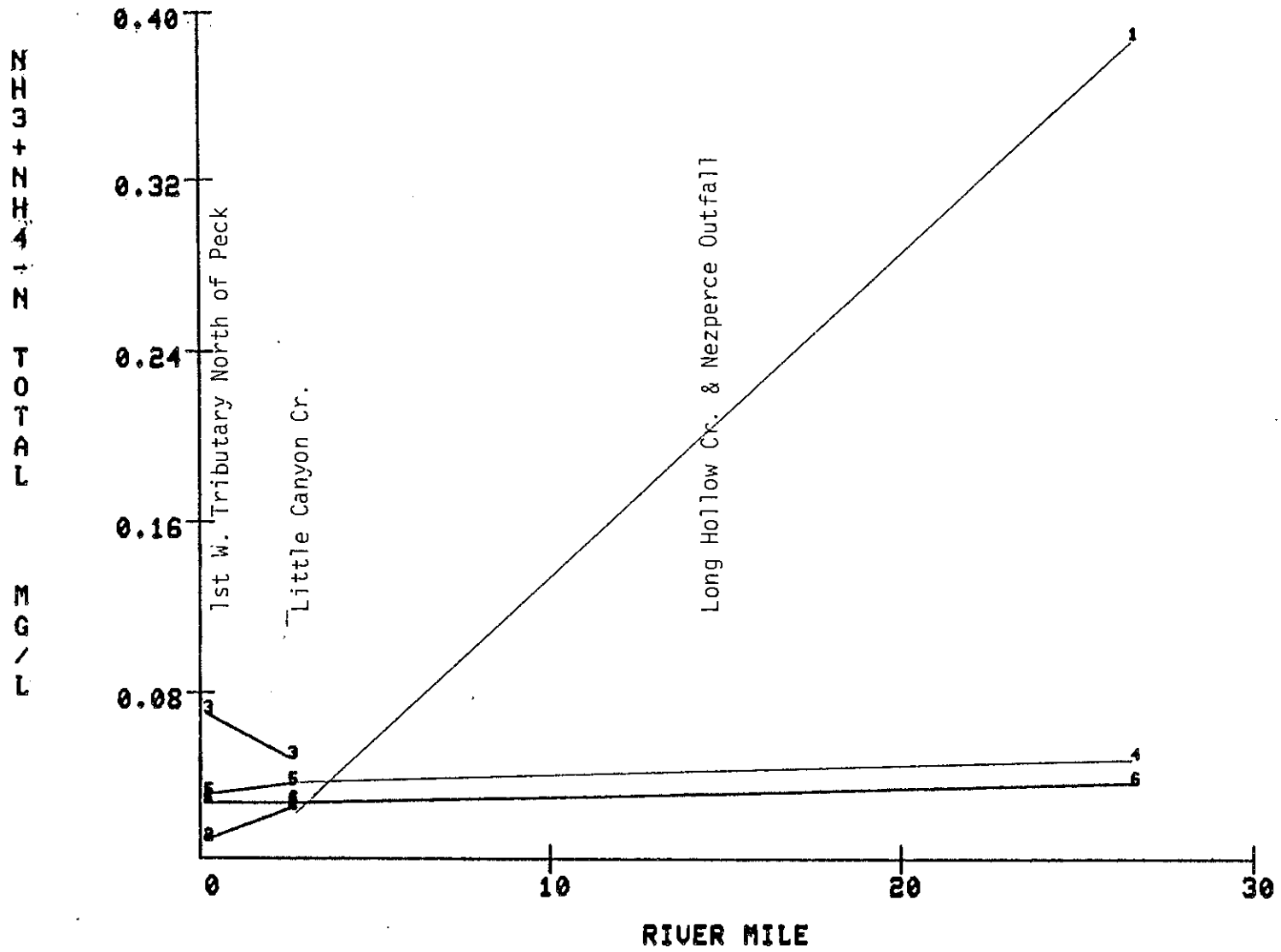

LONG HOLLOW CREEK
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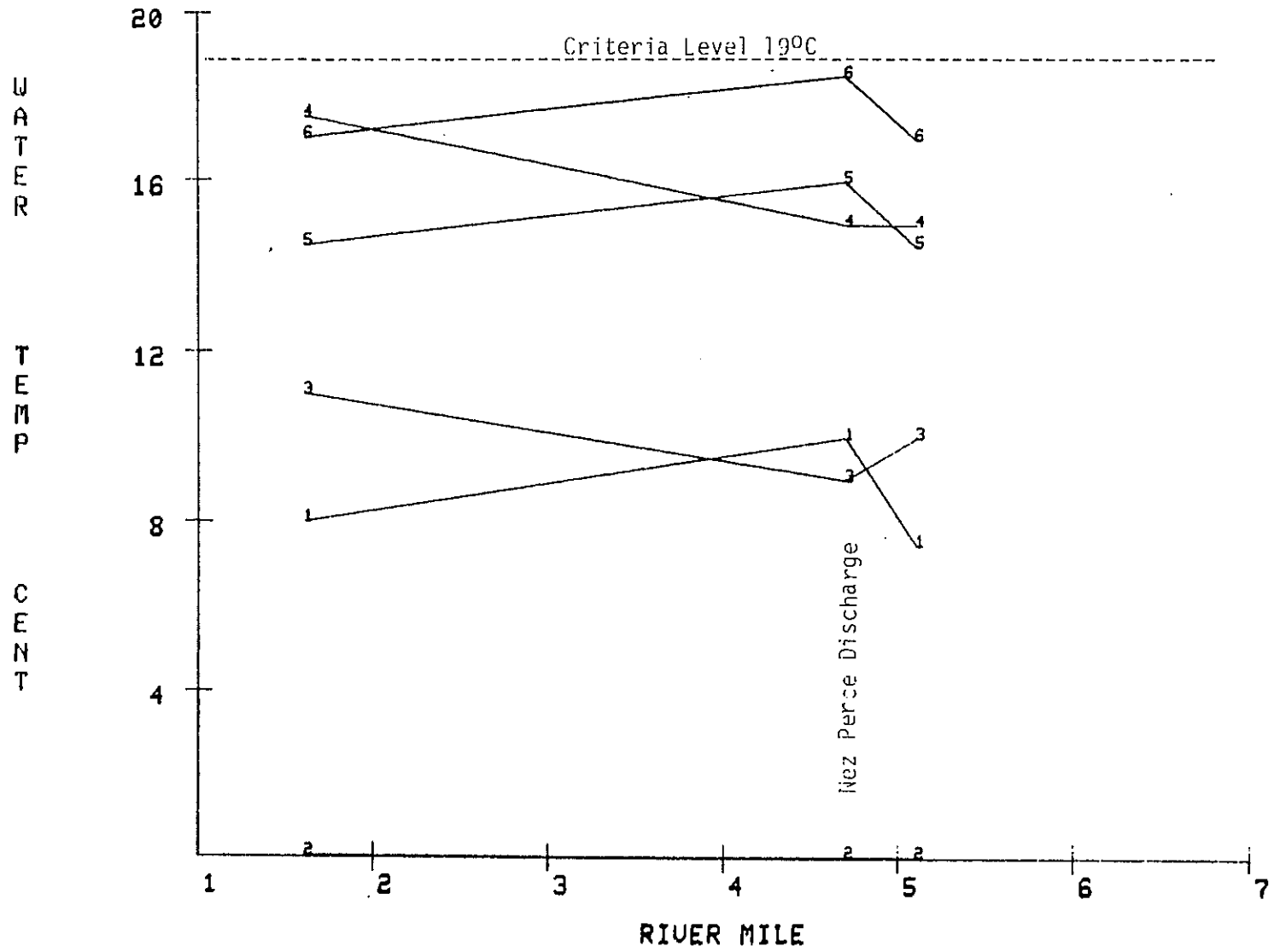
4 : 05-01-79 5 : 06-05-79 6 : 08-14-79



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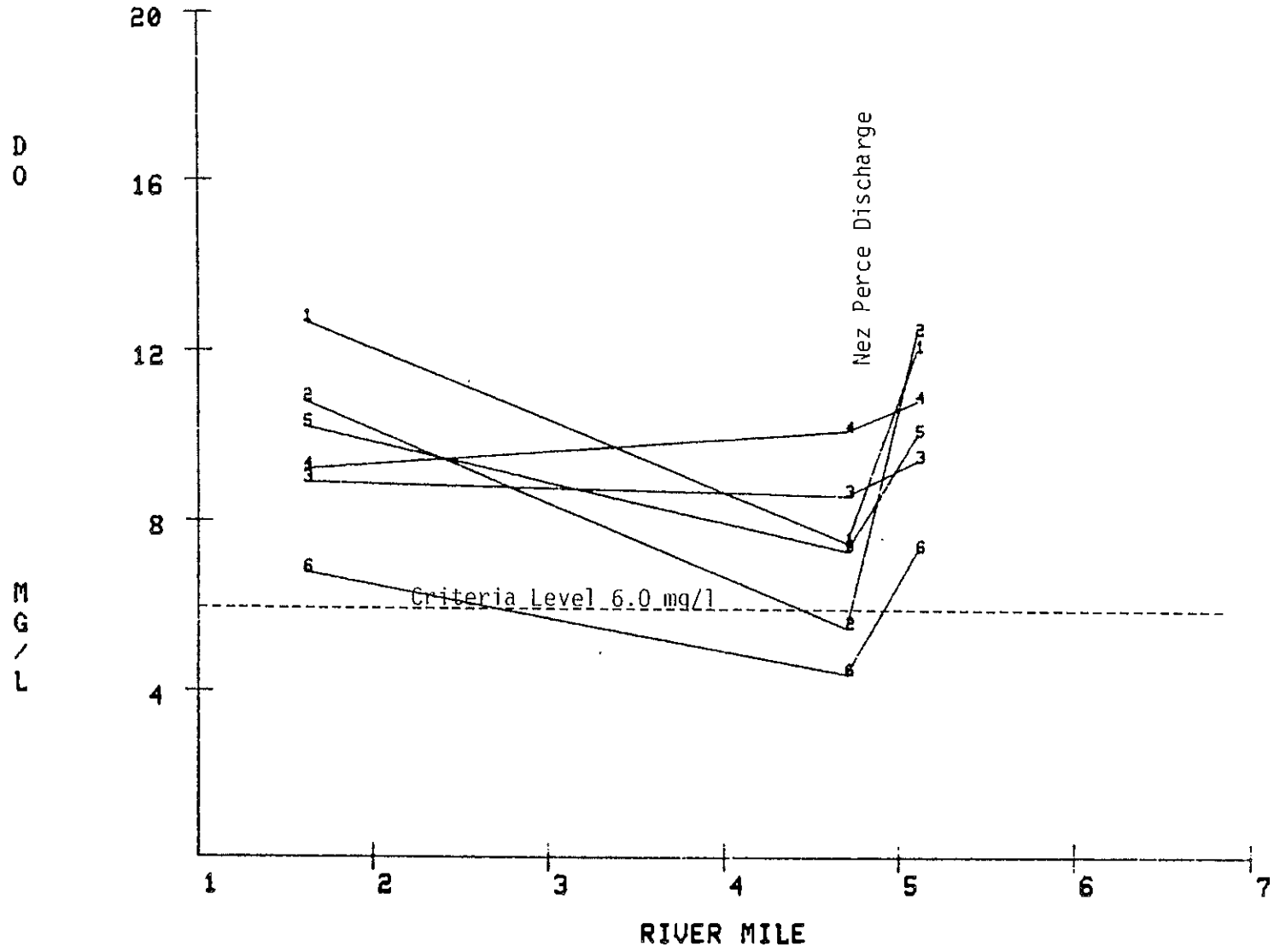

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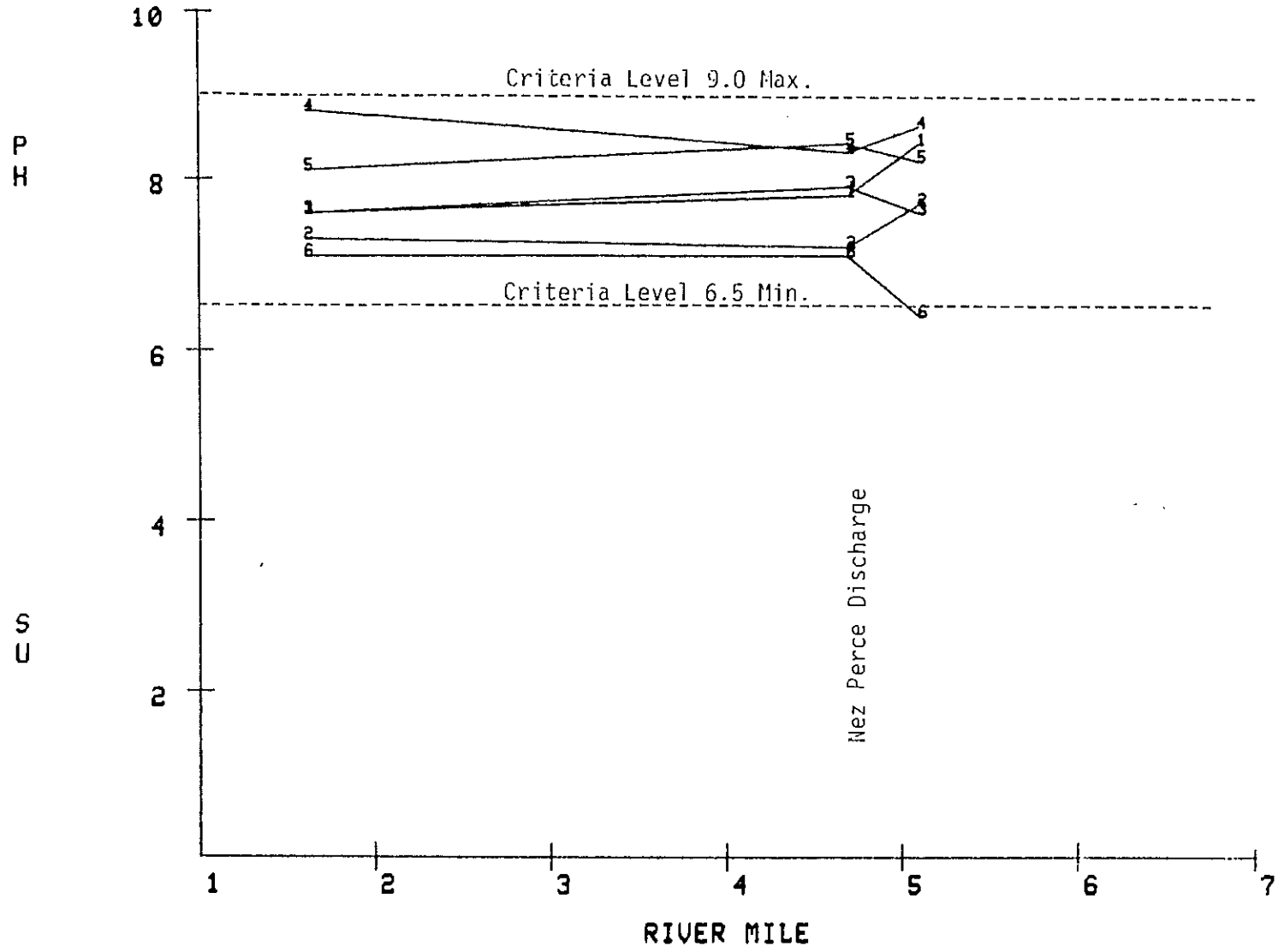

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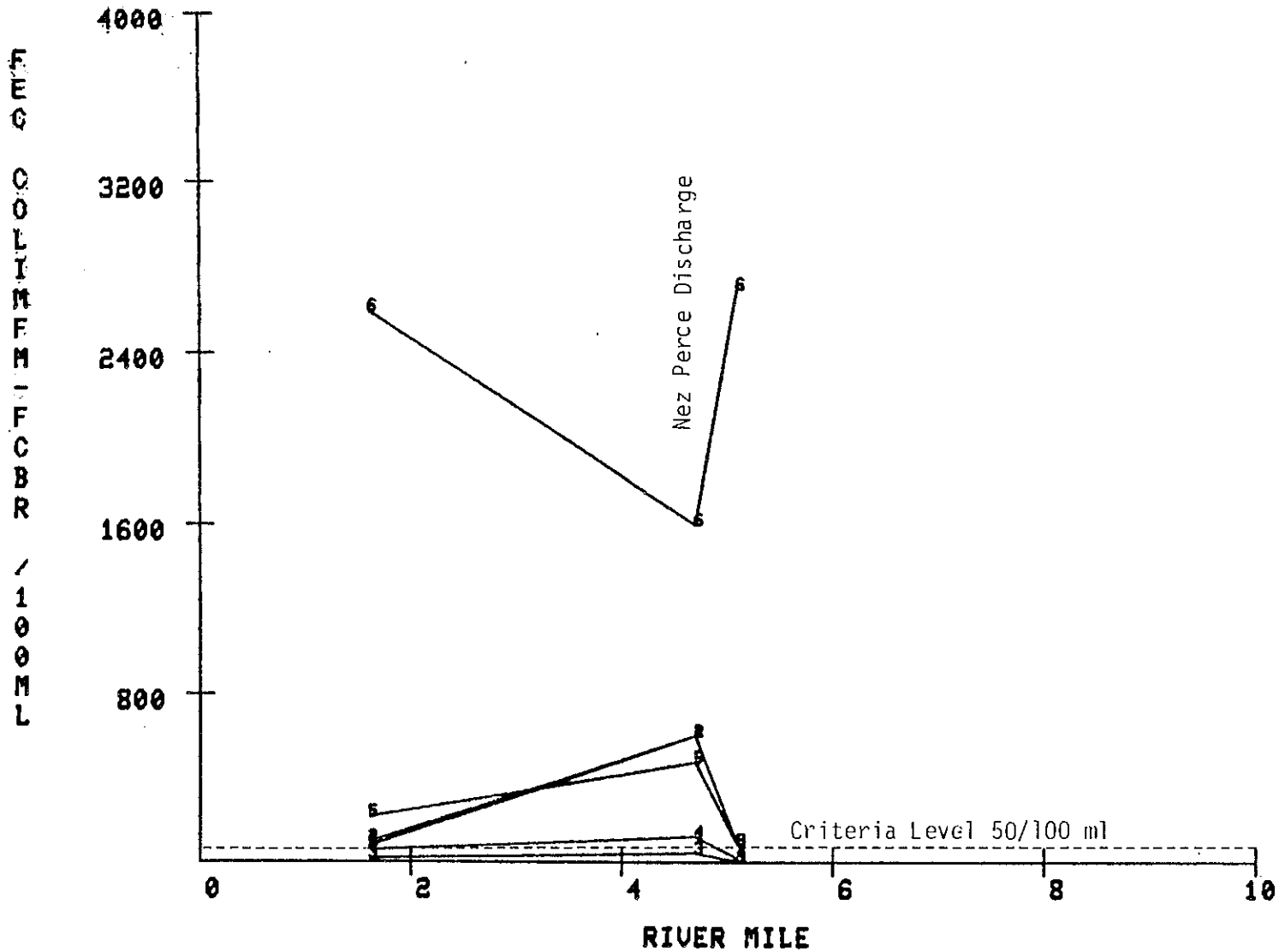
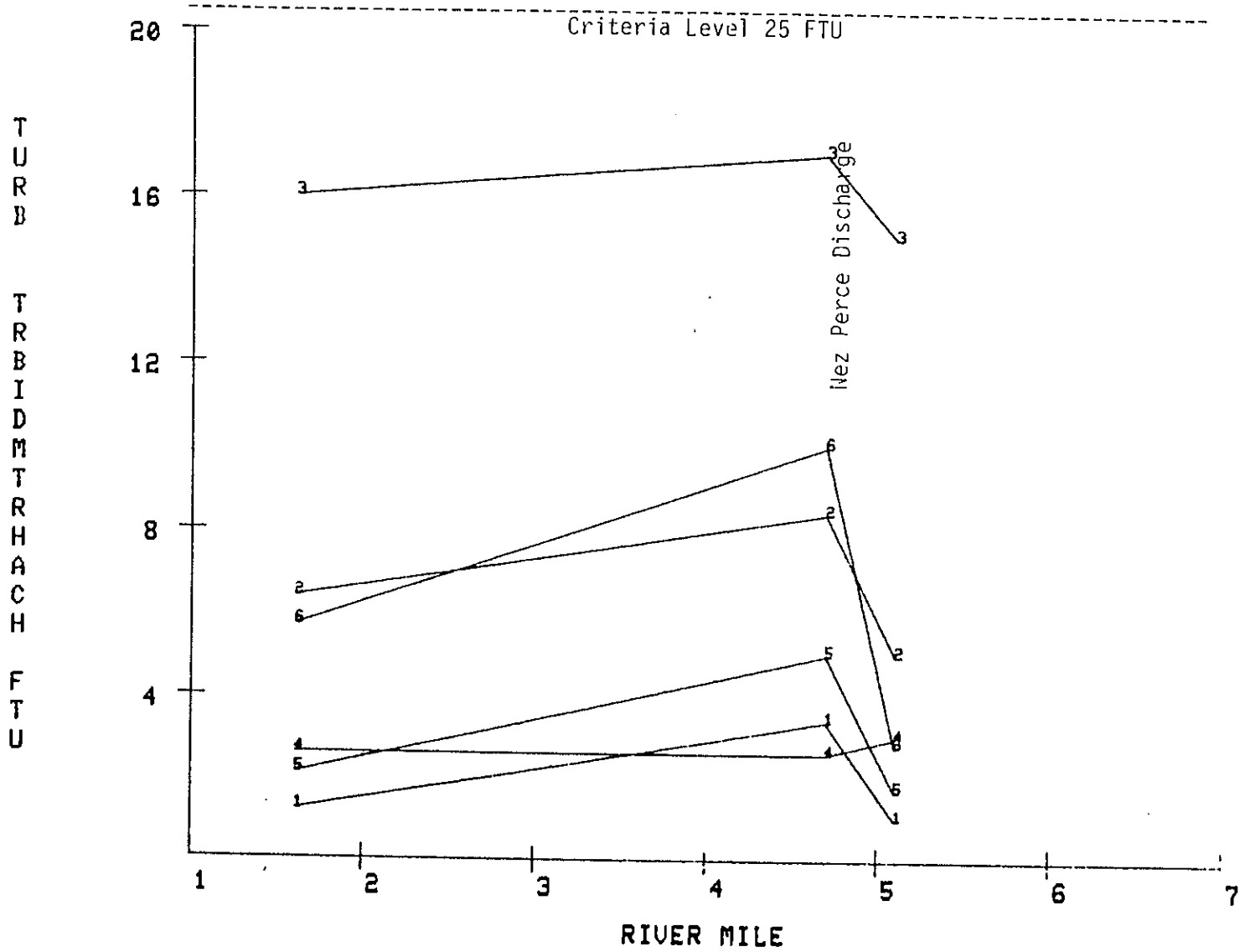


LONG HOLLOW CREEK
INTENSIVE SURVEY DATA FOR 6 DAYS OF MONITORING

1 : 10-23-78 2 : 01-23-79 3 : 0[illegible]-20-79
4 : 05-01-79 5 : 06-05-79 6 : 08-14-79



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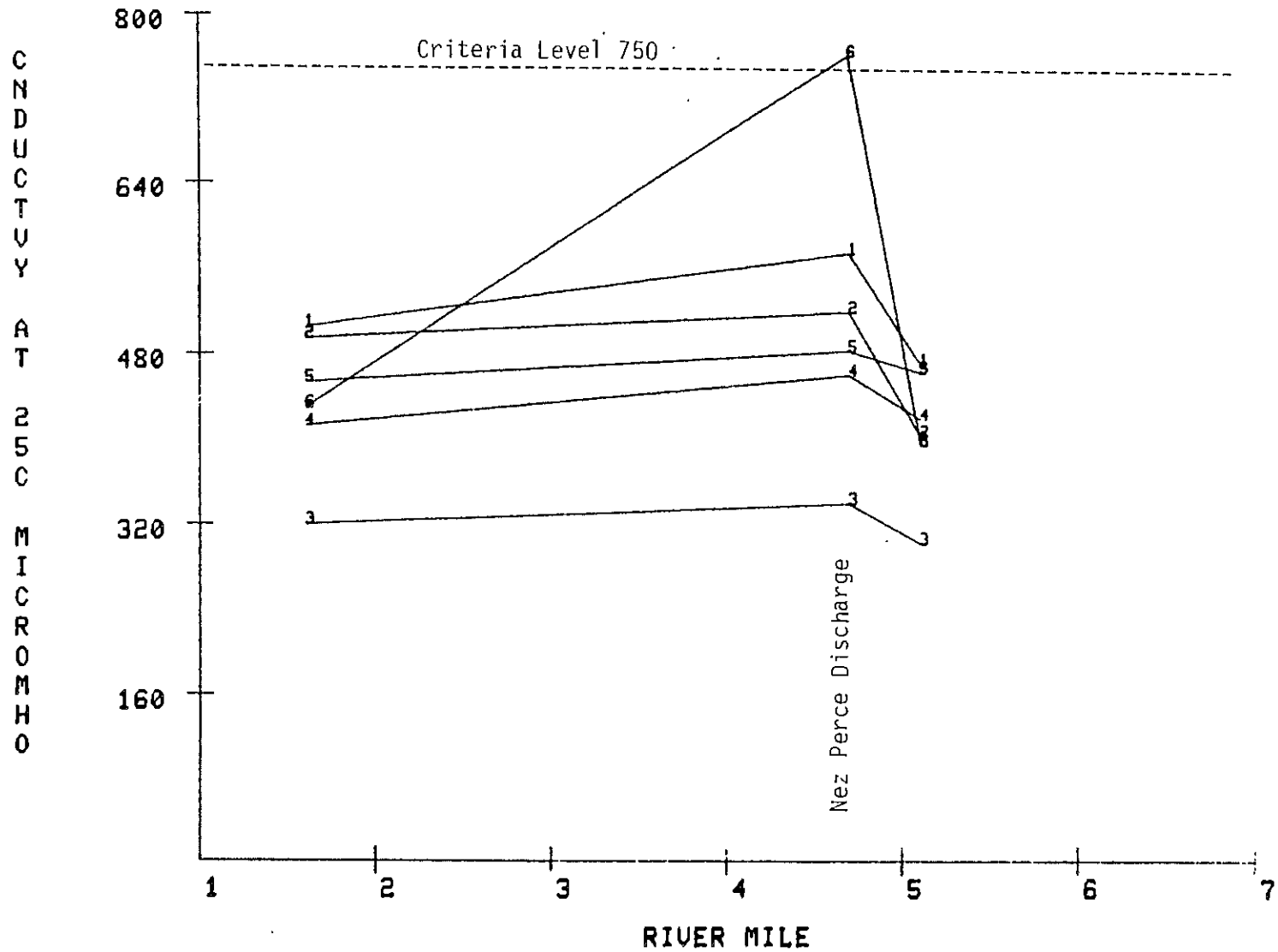

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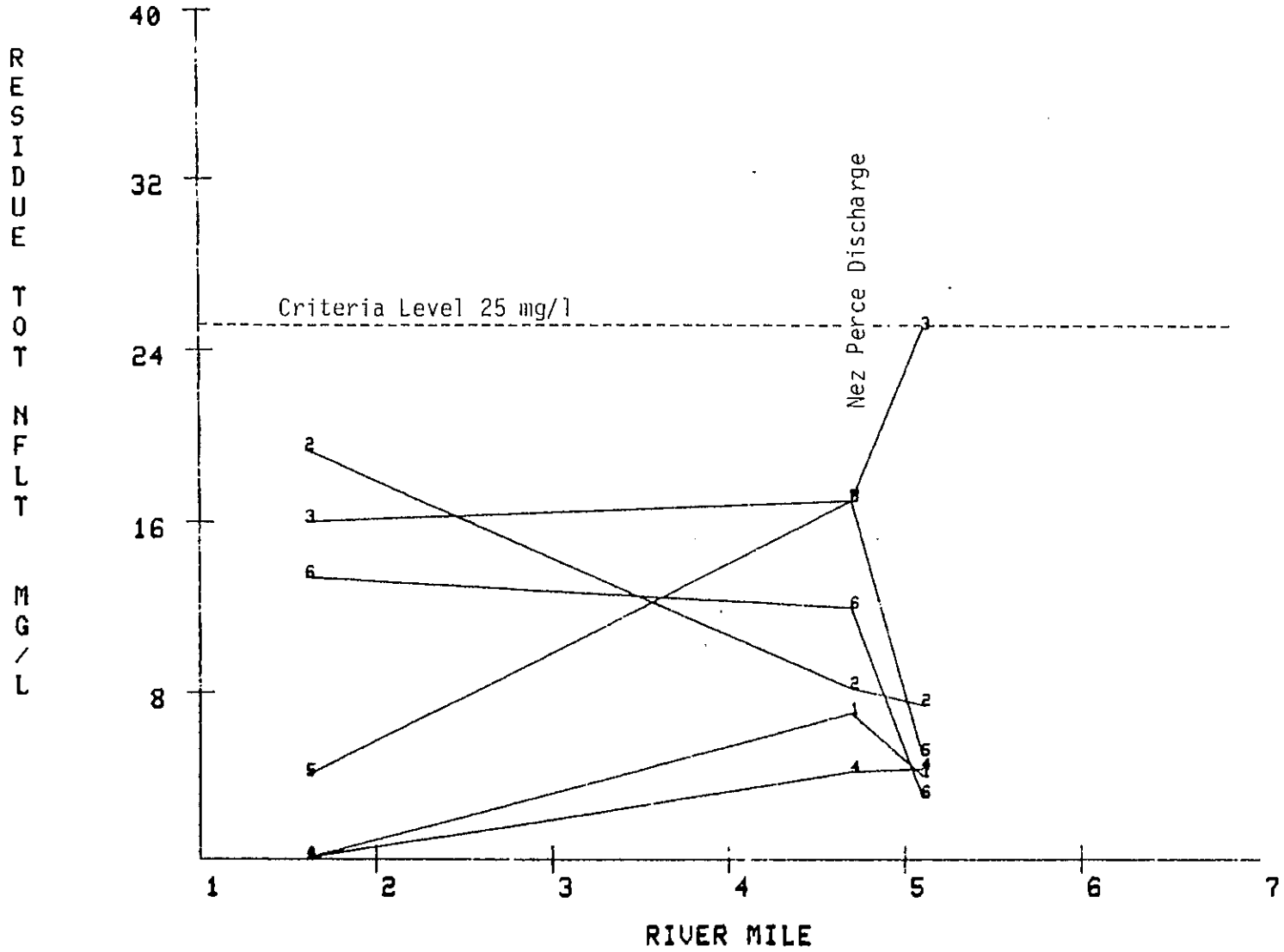

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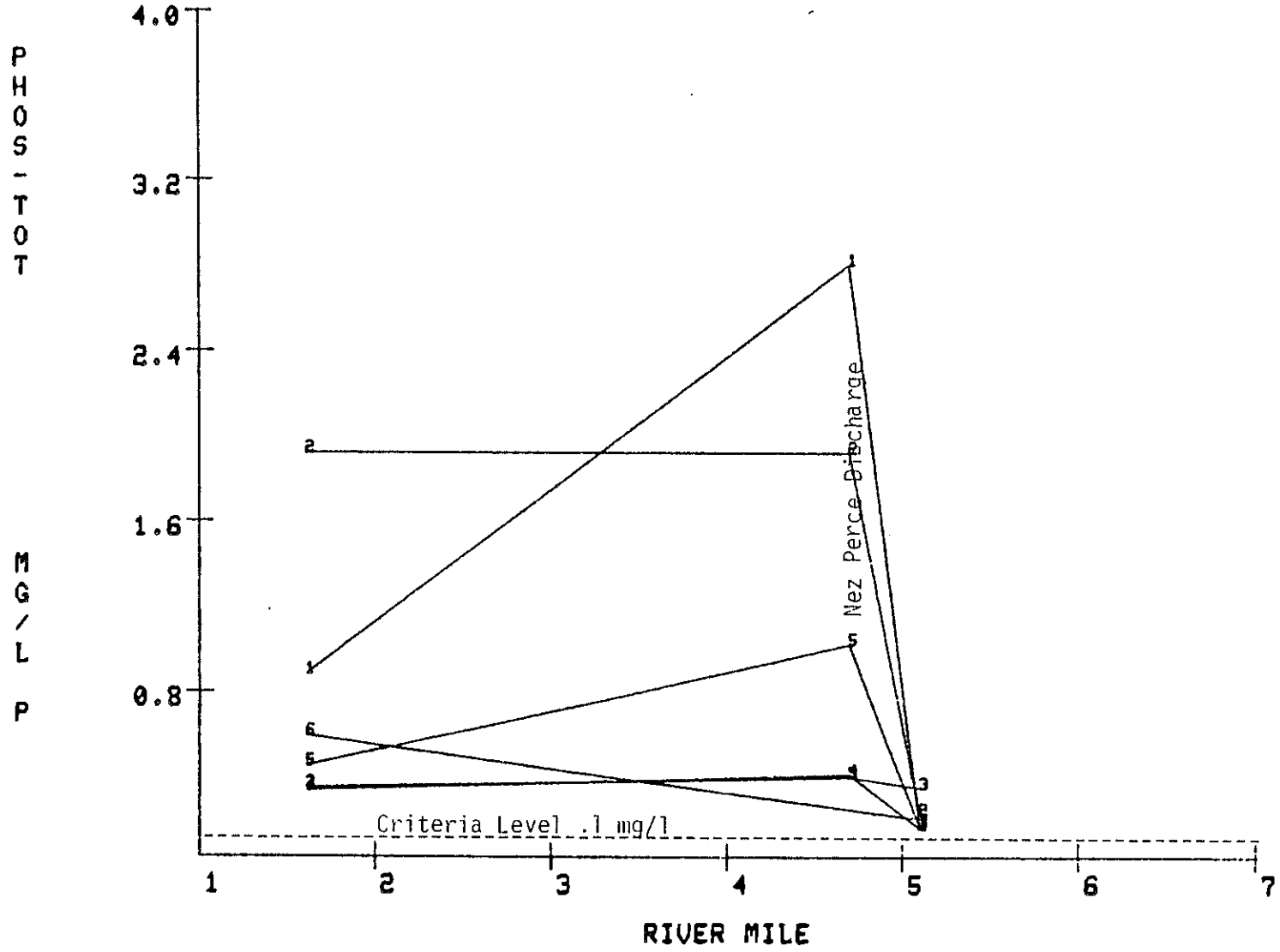

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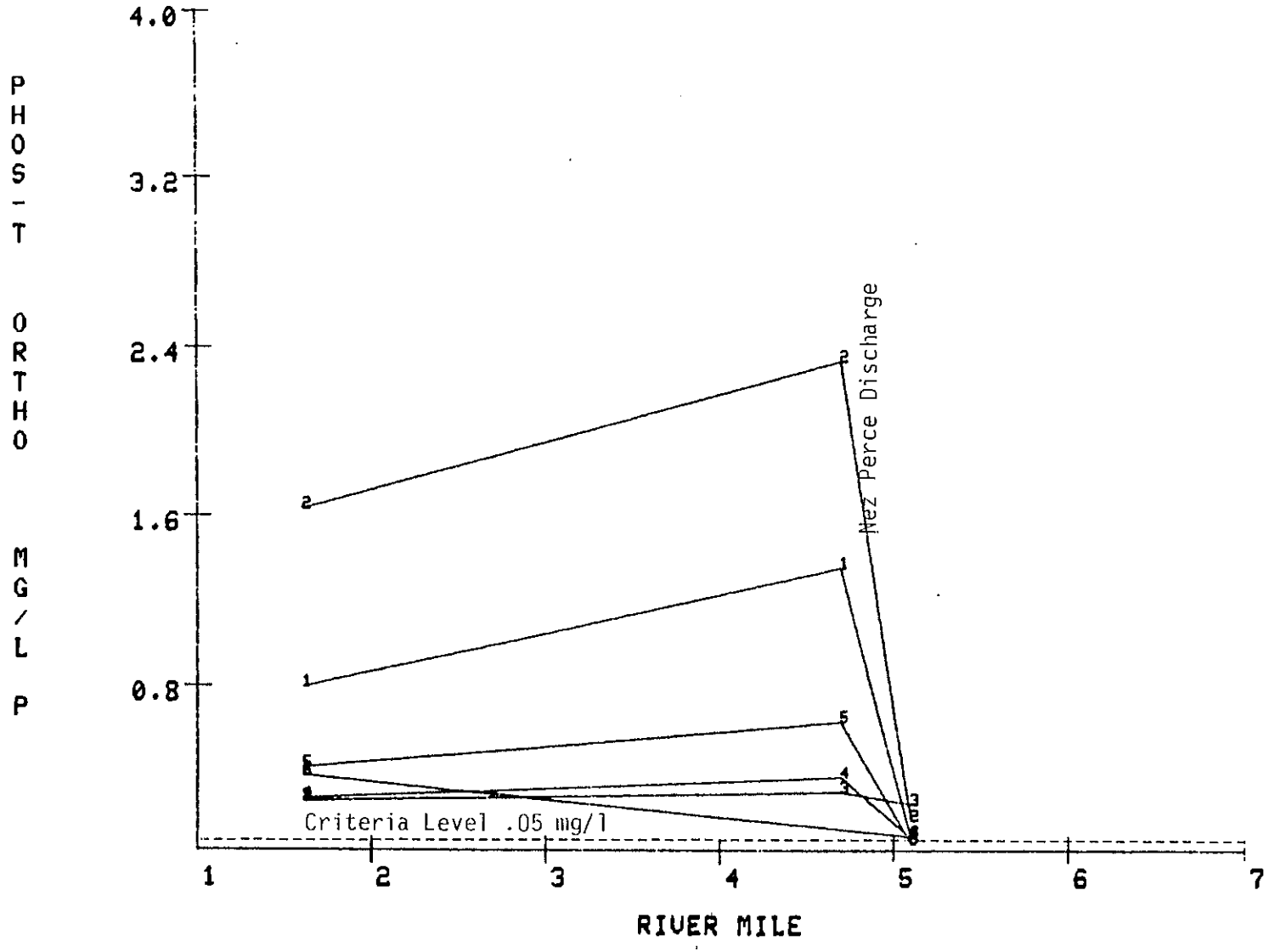

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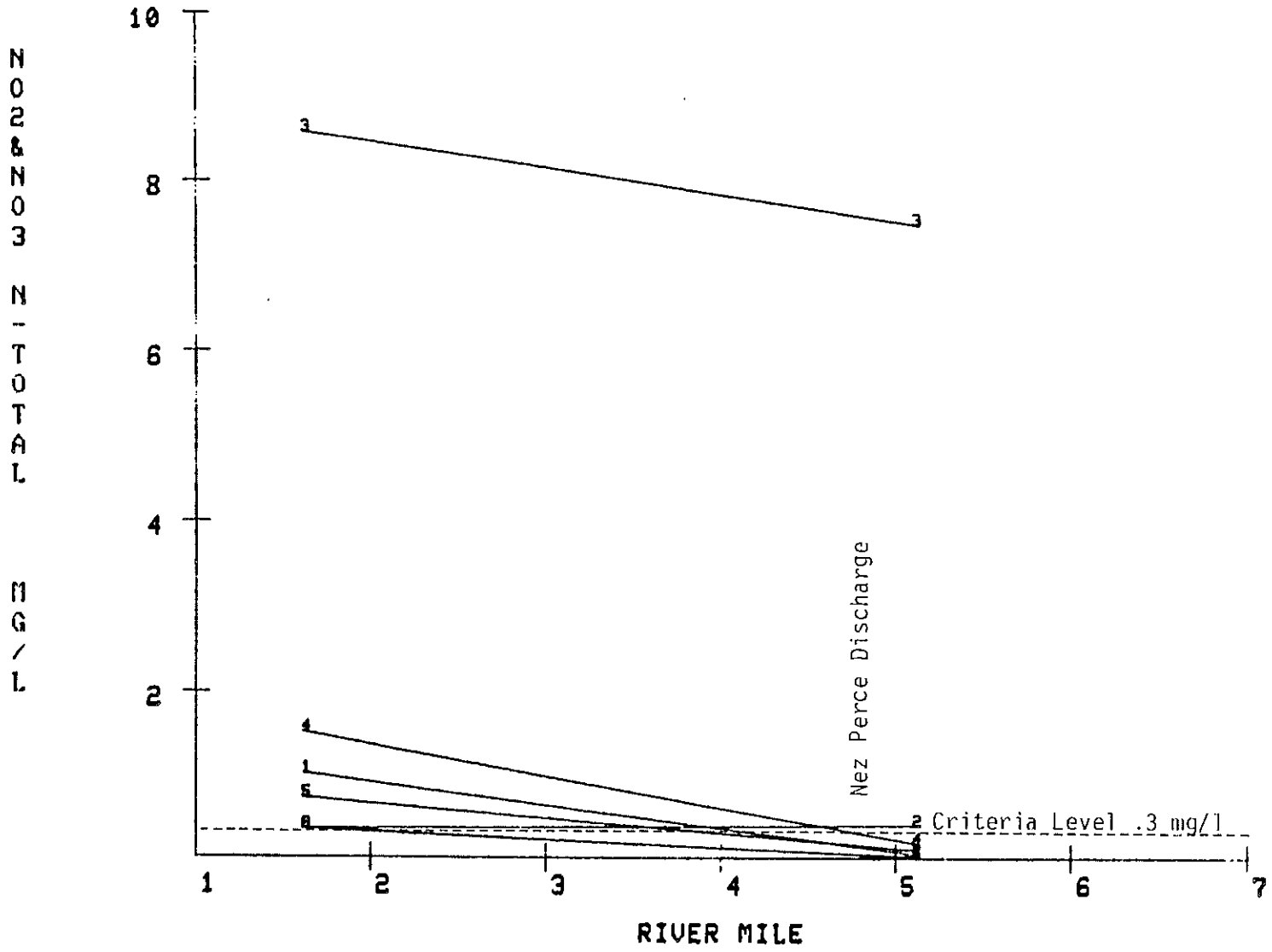
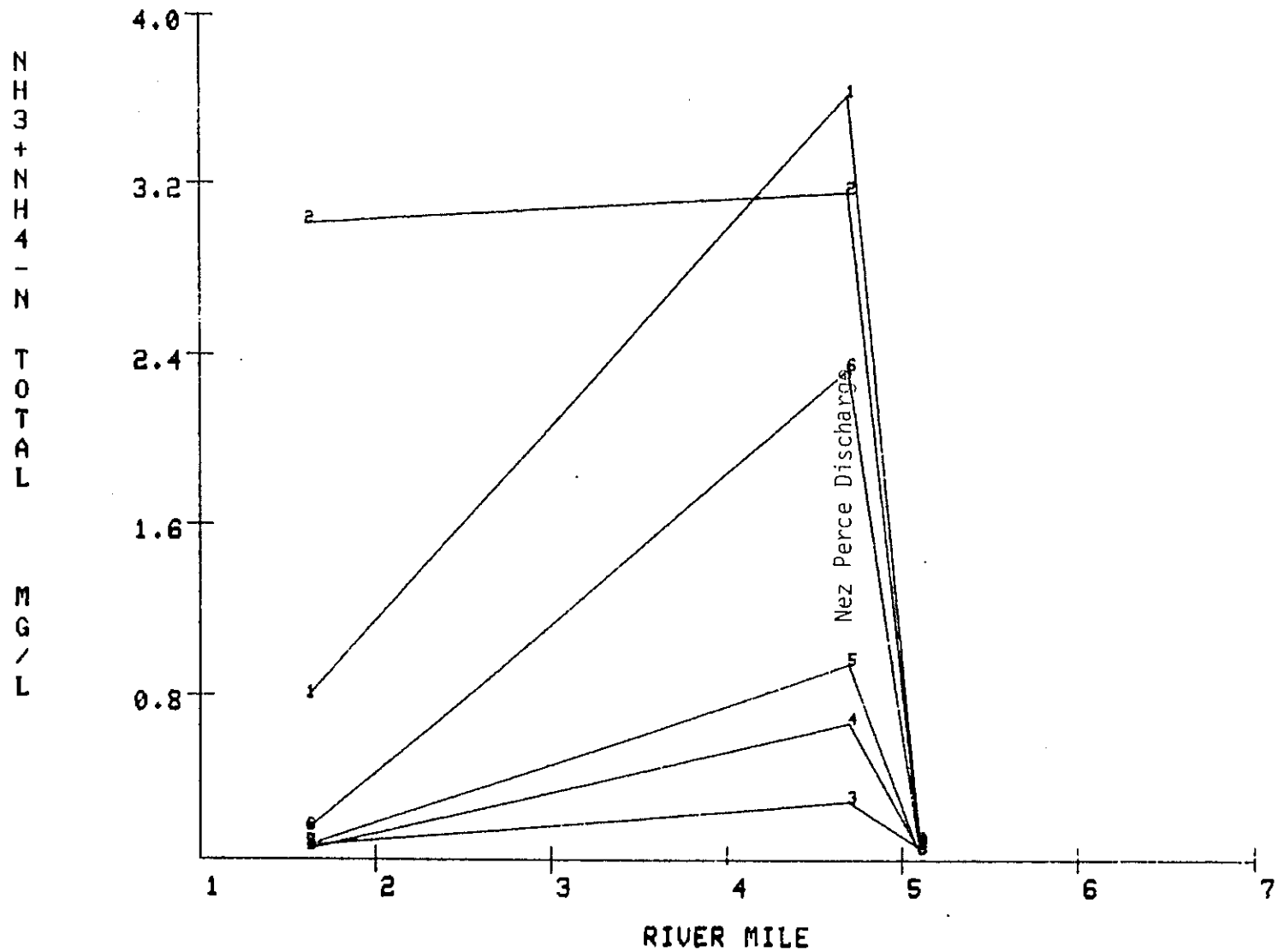
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