

THIS RUN EXECUTED 08/01/81 8:23:17

 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53,54

T1	WAYNESVILLE NC	ALLENCKF 11-06-80 GNC	10
T2	100 YEAR FLOOD	JCL KEY = HCDQ094	20
T3	ALLEN CREEK	100 YEAR FLOODWAY	30

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	0.	4.	0.	0.	0.0	0.	0.0	0.	2741.70	0.0	40

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	0.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	50

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

	110.00	0.0	200.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60
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NC	0.100	0.120	0.055	0.1	0.5						70
QT	5.	1800.	3000.	3700.	5400.	3700.	0.	0.	0.	0.	80
ET	0.	0.0	0.0	0.0	0.0	7.11	195.00	285.00	0.0	0.0	90

X1	0.02	20.	200.	247.	0.	0.	0.	0.0	0.0	0.	100
GR	2753.0	18.	2752.9	96.	2752.8	130.	2753.3	162.	2752.5	172.	110
GR	2744.5	193.	2740.3	200.	2735.5	211.	2734.8	216.	2734.5	225.	120
GR	2734.5	230.	2735.0	235.	2735.5	238.	2738.8	247.	2738.8	249.	130
GR	2739.3	300.	2738.3	350.	2737.7	365.	2739.7	393.	2739.6	403.	140
NC	0.090	0.110	0.055	0.0	0.0						150
ET	0.	0.0	0.0	0.0	0.0	7.11	60.00	100.00	0.0	0.0	160

X1	0.08	12.	60.	100.	280.	280.	280.	0.0	0.0	0.	170
GR	2762.0	3.	2762.0	36.	2750.0	50.	2750.0	60.	2742.5	60.	180
GR	2740.5	66.	2739.5	75.	2738.7	85.	2739.5	94.	2740.0	100.	190
GR	2749.9	100.	2750.3	190.	0.0	0.	0.0	0.	0.0	0.	200
NC	0.090	0.110	0.040	0.0	0.0						210
ET	0.	0.0	0.0	0.0	0.0	7.11	500.00	585.00	0.0	0.0	220

X1	0.16	21.	545.	600.	400.	400.	400.	0.0	0.0	0.	230
GR	2792.0	55.	2792.0	500.	2758.0	500.	2757.3	505.	2757.5	518.	240
GR	2757.5	532.	2757.4	535.	2752.3	545.	2747.0	555.	2745.0	560.	250
GR	2744.0	565.	2745.5	572.	2746.8	575.	2748.0	580.	2751.6	581.	260
GR	2753.4	585.	2756.5	595.	2757.8	600.	2756.2	700.	2755.5	800.	270
GR	2756.5	875.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	280
ET	0.	0.0	0.0	0.0	0.0	7.11	500.00	585.00	0.0	0.0	290

X1	0.16	0.	0.	0.	40.	40.	40.	0.0	0.0	0.	300
ET	0.	0.0	0.0	0.0	0.0	7.11	500.00	585.00	0.0	0.0	310

X1	0.16	48.	496.	600.	1.	1.	1.	0.0	0.0	0.	320
BT	6.0	400.0	2763.5	0.0	496.0	2763.0	0.0	496.0	2763.0	2760.5	330
BT	600.0	2761.5	2759.3	600.0	2761.7	0.0	700.0	2759.5	0.0	0.0	340
GR	2766.5	55.	2765.5	100.	2764.9	200.	2764.0	300.	2763.5	400.	350
GR	2763.0	496.	2757.9	496.	2758.0	500.	2757.3	505.	2760.5	505.	360
GR	2760.4	506.	2757.4	506.	2757.5	517.	2760.3	517.	2760.2	518.	370
GR	2757.6	510.	2757.6	532.	2760.1	532.	2760.0	533.	2757.6	533.	380
GR	2757.5	535.	2752.3	545.	2759.9	545.	2759.8	546.	2752.2	546.	390
GR	2747.0	555.	2745.0	559.	2759.7	559.	2759.6	560.	2744.9	560.	400
GR	2744.0	565.	2745.5	572.	2750.6	572.	2759.5	573.	2745.6	573.	410
GR	2746.8	575.	2748.0	580.	2751.5	582.	2753.4	585.	2759.5	585.	420
GR	2759.4	586.	2753.5	586.	2756.5	595.	2758.0	600.	2761.7	600.	430
GR	2759.5	700.	2757.8	800.	2756.5	876.	0.0	0.	0.0	0.	440
ET	0.	0.0	0.0	0.0	0.0	7.11	500.00	585.00	0.0	0.0	450

X1	0.16	0.	0.	0.	30.	30.	30.	0.0	0.0	0.	460
X2	0.	0.0	0.	0.0	0.0	0.0	1.	0.0	0.0	0.	470
ET	0.	0.0	0.0	0.0	0.0	7.11	500.00	585.00	0.0	0.0	480

X1	0.16	21.	545.	600.	1.	1.	1.	0.0	0.0	0.	490
GR	2764.5	55.	2764.5	100.	2763.0	200.	2762.1	300.	2760.0	400.	500
GR	2757.9	496.	2758.0	500.	2752.3	545.	2747.0	555.	2745.0	560.	510
GR	2744.0	565.	2745.5	572.	2746.8	575.	2748.0	580.	2751.6	581.	520
GR	2753.4	585.	2756.5	595.	2757.8	600.	2756.2	700.	2755.5	800.	530
GR	2756.5	875.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	540
NC	0.110	0.110	0.055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	550
ET	0.	0.0	0.0	0.0	0.0	7.11	500.00	585.00	0.0	0.0	560

X1	0.16	0.	0.	0.	10.	10.	10.	0.0	0.0	0.	570
NC	0.070	0.120	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	580
ET	0.	0.0	0.0	0.0	0.0	7.11	750.00	860.00	0.0	0.0	590

X1	0.28	20.	755.	800.	640.	640.	640.	0.0	0.0	0.	600
GR	2772.0	100.	2772.0	200.	2772.2	300.	2771.2	400.	2771.2	500.	610
GR	2769.6	600.	2769.5	700.	2769.0	755.	2763.0	770.	2761.5	770.	620
GR	2761.2	772.	2760.9	772.	2760.4	775.	2760.4	780.	2759.2	780.	630
GR	2759.5	785.	2761.2	800.	2771.5	900.	2770.0	1020.	2770.0	1600.	640
ET	0.	0.0	0.0	0.0	0.0	7.11	750.00	860.00	0.0	0.0	650

X1	0.28	0.	0.	0.	40.	40.	40.	0.0	0.0	0.	660
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2771.0	2771.0	0.	670
SB	1.26	1.60	3.00	0.	28.80	0.01	300.00	0.0	2759.2	2759.2	680
ET	0.	0.0	0.0	0.0	0.0	7.11	750.00	860.00	0.0	0.0	690

X1	0.28	22.	762.	808.	30.	30.	30.	0.0	0.0	0.	700
X2	0.	0.0	1.	2769.6	2770.0	0.0	0.	0.0	0.0	0.	710
BT	14.0	100.0	2772.0	0.0	200.0	2772.0	0.0	300.0	2772.3	0.0	720
BT	400.0	2772.4	0.0	500.0	2772.5	0.0	600.0	2772.8	0.0	700.0	730
BT	2772.9	0.0	770.0	2772.9	0.0	770.0	2773.3	0.0	800.0	2773.3	740
BT	0.0	800.0	2772.9	0.0	900.0	2771.5	0.0	1020.0	2770.0	0.0	750
BT	1530.0	2770.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	760
GR	2772.0	100.	2772.0	200.	2772.0	300.	2771.2	400.	2771.3	500.	770

C01

GR	2769.8	600.	2771.5	674.	2771.7	762.	2764.0	765.	2763.0	770.	780
GR	2761.5	770.	2761.2	772.	2760.9	772.	2760.4	775.	2760.4	780.	790
GR	2759.2	780.	2759.5	785.	2761.2	800.	2772.7	808.	2771.7	900.	800
GR	2770.0	1020.	2770.0	1600.	0.0	0.	0.0	0.	0.0	0.	810
NC	0.100	0.120	0.045	0.0	0.0						820
ET	0.	0.0	0.0	0.0	0.0	7.11	750.00	860.00	0.0	0.0	830

X1	0.28	0.	0.	0.	10.	10.	10.	0.0	0.0	0.	840
ET	0.	0.0	0.0	0.0	0.0	7.11	640.00	760.00	0.0	0.0	850

X1	0.37	27.	688.	745.	410.	410.	410.	0.0	0.0	0.	860
GR	2790.3	36.	2780.7	403.	2778.2	470.	2778.0	480.	2777.0	490.	870
GR	2777.6	570.	2776.3	608.	2777.2	688.	2770.3	702.	2769.7	707.	880
GR	2769.5	716.	2769.0	720.	2769.5	726.	2770.3	732.	2777.5	745.	890
GR	2776.9	749.	2777.0	760.	2785.0	760.	2785.0	790.	2777.7	790.	900
GR	2778.0	810.	2778.3	850.	2777.9	950.	2777.6	1050.	2776.0	1150.	910
GR	2775.7	1250.	2775.9	1283.	0.0	0.	0.0	0.	0.0	0.	920
NC	0.100	0.100	0.050	0.0	0.0						930
ET	0.	0.0	0.0	0.0	0.0	7.11	550.00	900.00	0.0	0.0	940

X1	0.51	25.	660.	700.	720.	720.	720.	0.0	-2.80	0.	950
GR	2810.0	60.	2801.1	100.	2793.0	200.	2793.0	300.	2793.7	400.	960
GR	2793.5	500.	2793.0	600.	2793.0	632.	2792.5	660.	2790.1	665.	970
GR	2788.0	665.	2787.5	670.	2787.3	675.	2787.2	680.	2787.3	685.	980
GR	2787.0	690.	2785.5	700.	2792.5	700.	2792.5	800.	2791.8	900.	990
GR	2791.0	960.	2792.1	1000.	2791.2	1090.	2791.0	1100.	2790.8	1200.	1000
ET	0.	0.0	0.0	0.0	0.0	7.11	550.00	920.00	0.0	0.0	1010

X1	0.53	0.	0.	0.	65.	65.	65.	0.0	2.80	0.	1020
ET	0.	0.0	0.0	0.0	0.0	7.11	550.00	920.00	0.0	0.0	1030

X1	0.53	0.	0.	0.	40.	40.	40.	0.0	0.0	0.	1040
SB	1.25	1.60	3.00	0.	30.30	0.01	100.00	0.0	2787.0	2787.0	1050
ET	0.	0.0	0.0	0.0	0.0	7.11	550.00	920.00	0.0	0.0	1060

X1	0.53	25.	660.	700.	30.	30.	30.	0.0	0.0	0.	1070
X2	0.	0.0	1.	2790.3	2790.8	0.0	0.	0.0	0.0	0.	1080
BT	19.0	60.0	2810.0	0.0	100.0	2801.1	0.0	200.0	2793.0	0.0	1090
BT	300.0	2793.0	0.0	400.0	2793.7	0.0	500.0	2793.5	0.0	600.0	1100
BT	2793.0	0.0	632.0	2793.0	0.0	660.0	2792.5	0.0	660.0	2794.0	1110
BT	0.0	700.0	2794.0	0.0	700.0	2792.5	0.0	800.0	2792.5	0.0	1120
BT	900.0	2791.8	0.0	960.0	2791.0	0.0	1000.0	2792.1	0.0	1090.0	1130
BT	2791.2	0.0	1100.0	2791.0	0.0	1200.0	2790.8	0.0	0.0	0.0	1140
GR	2810.0	60.	2801.1	100.	2793.0	200.	2793.0	300.	2793.7	400.	1150
GR	2793.5	500.	2793.0	600.	2793.0	632.	2792.5	660.	2790.1	665.	1160
GR	2788.0	665.	2787.5	670.	2787.3	675.	2787.2	680.	2787.3	685.	1170
GR	2787.0	690.	2785.5	700.	2792.5	700.	2792.5	800.	2791.8	900.	1180
GR	2791.0	960.	2792.1	1000.	2791.2	1090.	2791.0	1100.	2790.8	1200.	1190
ET	0.	0.0	0.0	0.0	0.0	7.11	550.00	920.00	0.0	0.0	1200

X1	0.53	29.	660.	700.	10.	10.	10.	0.0	0.0	0.	1210
GR	2810.0	60.	2801.1	100.	2793.0	200.	2793.0	300.	2793.7	400.	1220
GR	2793.5	500.	2793.0	600.	2793.0	632.	2792.5	660.	2790.1	665.	1230

D01

GR	2788.0	665.	2787.5	670.	2787.3	675.	2787.2	680.	2787.3	685.	1240
GR	2787.0	690.	2785.5	700.	2792.5	700.	2792.5	710.	2804.0	710.	1250
GR	2804.0	770.	2792.5	770.	2792.5	800.	2791.8	900.	2791.0	960.	1260
GR	2792.1	1000.	2791.2	1090.	2791.0	1100.	2790.8	1200.	0.0	0.	1270
ET	0.	0.0	0.0	0.0	0.0	7.11	220.00	360.00	0.0	0.0	1280
X1	0.69	16.	267.	307.	900.	900.	900.	0.0	-1.50	0.	1290
GR	2824.2	41.	2812.8	94.	2809.5	210.	2810.0	267.	2805.2	267.	1300
GR	2802.0	280.	2802.5	295.	2803.8	300.	2809.5	307.	2810.0	360.	1310
GR	2820.0	360.	2820.0	400.	2810.5	400.	2810.3	430.	2808.6	495.	1320
GR	2815.0	510.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	1330
ET	0.	0.0	0.0	0.0	0.0	7.11	220.00	360.00	0.0	0.0	1340
X1	0.72	0.	0.	0.	130.	130.	130.	0.0	1.50	0.	1350
ET	0.	0.0	0.0	0.0	0.0	7.11	220.00	360.00	0.0	0.0	1360
X1	0.72	15.	271.	299.	1.	1.	1.	0.0	0.0	0.	1370
BT	9.0	41.0	2824.2	0.0	94.0	2812.8	0.0	210.0	2809.5	0.0	1380
BT	271.0	2810.0	0.0	271.0	2810.0	2808.7	299.0	2810.0	2808.5	299.0	1390
BT	2810.0	0.0	400.0	2810.0	0.0	495.0	2809.2	0.0	0.0	0.0	1400
GR	2824.2	41.	2812.8	94.	2809.5	210.	2810.0	271.	2801.5	271.	1410
GR	2802.8	278.	2802.6	286.	2802.7	291.	2803.4	296.	2805.0	299.	1420
GR	2810.0	299.	2809.9	400.	2809.4	450.	2809.2	495.	2815.0	510.	1430
ET	0.	0.0	0.0	0.0	0.0	7.11	220.00	360.00	0.0	0.0	1440
X1	0.72	0.	0.	0.	20.	20.	20.	0.0	0.0	0.	1450
X2	0.	0.0	0.	0.0	0.0	0.0	1.	0.0	0.0	0.	1460
ET	0.	0.0	0.0	0.0	0.0	7.11	220.00	360.00	0.0	0.0	1470
X1	0.72	14.	267.	307.	1.	1.	1.	0.0	0.0	0.	1480
GR	2824.2	41.	2812.8	94.	2809.5	210.	2810.0	267.	2805.2	267.	1490
GR	2802.0	280.	2802.5	295.	2803.8	300.	2809.5	307.	2810.0	360.	1500
GR	2810.5	380.	2810.3	430.	2808.6	495.	2815.0	510.	0.0	0.	1510
ET	0.	0.0	0.0	0.0	0.0	7.11	220.00	360.00	0.0	0.0	1520
X1	0.72	0.	0.	0.	10.	10.	10.	0.0	0.0	0.	1530
NC	0.090	0.090	0.050	0.0	0.0	0.0	0.0	0.0	0.0	0.	1540
ET	0.	0.0	0.0	0.0	0.0	7.11	220.00	360.00	0.0	0.0	1550
X1	0.76	0.	0.	0.	200.	200.	200.	0.0	1.50	0.	1560
ET	0.	0.0	0.0	0.0	0.0	7.11	480.00	630.00	0.0	0.0	1570
X1	0.84	23.	560.	600.	440.	440.	440.	0.0	0.0	0.	1580
GR	2840.0	65.	2824.0	160.	2820.5	200.	2820.0	225.	2821.5	280.	1590
GR	2821.0	300.	2820.2	400.	2817.0	500.	2818.0	522.	2818.0	560.	1600
GR	2814.0	561.	2812.0	563.	2811.5	565.	2810.5	585.	2812.0	593.	1610
GR	2811.2	600.	2818.0	600.	2818.0	638.	2818.3	660.	2818.8	700.	1620
GR	2817.9	750.	2830.0	750.	2830.0	900.	0.0	0.	0.0	0.	1630
SB	1.25	1.60	3.00	0.	32.50	0.01	240.00	0.0	2810.5	2810.5	1640
ET	0.	0.0	0.0	0.0	0.0	7.11	480.00	630.00	0.0	0.0	1650

E01

X1	0.84	0.	0.	0.	30.	30.	30.	0.0	0.0	0.	1660
X2	0.	0.0	1.	2818.0	2817.0	0.0	0.	0.0	0.0	0.	1670
BT	19.0	65.0	2840.0	0.0	160.0	2824.0	0.0	200.0	2820.5	0.0	1680
BT	225.0	2820.0	0.0	280.0	2821.5	0.0	300.0	2821.0	0.0	400.0	1690
BT	2820.2	0.0	500.0	2817.0	0.0	522.0	2819.3	0.0	560.0	2820.0	1700
BT	0.0	560.0	2821.5	0.0	600.0	2821.5	0.0	600.0	2820.5	0.0	1710
BT	638.0	2818.0	0.0	360.0	2818.3	0.0	700.0	2818.8	0.0	750.0	1720
BT	2818.0	0.0	750.0	2830.0	0.0	900.0	2830.0	0.0	0.0	0.0	1730
ET	0.	0.0	0.0	0.0	0.0	7.11	480.00	630.00	0.0	0.0	1740
X1	0.84	0.	0.	0.	10.	10.	10.	0.0	0.0	0.	1750
ET	0.	0.0	0.0	0.0	0.0	7.11	530.00	630.00	0.0	0.0	1760
X1	0.90	0.	0.	0.	250.	250.	250.	0.0	3.20	0.	1770
QT	5.	1780.	2940.	3650.	5300.	3650.	0.	0.	0.	0.	1780
ET	0.	0.0	0.0	0.0	0.0	7.11	705.00	770.00	0.0	0.0	1790
X1	0.98	34.	709.	760.	430.	430.	430.	0.0	0.0	0.	1800
GR	2850.0	50.	2843.5	75.	2841.5	100.	2840.0	145.	2837.6	192.	1810
GR	2835.8	198.	2838.0	205.	2838.2	270.	2835.5	300.	2835.5	400.	1820
GR	2834.9	500.	2834.5	545.	2832.5	552.	2832.5	565.	2833.0	575.	1830
GR	2830.0	600.	2829.5	690.	2828.5	709.	2823.3	719.	2822.0	720.	1840
GR	2821.4	725.	2821.5	730.	2822.4	735.	2823.0	745.	2822.5	760.	1850
GR	2829.5	760.	2829.6	794.	2831.5	800.	2831.3	820.	2828.4	830.	1860
GR	2830.0	840.	2832.3	900.	2832.5	920.	2832.0	1000.	0.0	0.	1870
ET	0.	0.0	0.0	0.0	0.0	7.11	705.00	770.00	0.0	0.0	1880
X1	1.05	0.	0.	0.	380.	380.	380.	0.0	7.40	0.	1890
ET	0.	0.0	0.0	0.0	0.0	7.11	820.00	900.00	0.0	0.0	1900
X1	1.12	24.	822.	900.	750.	750.	750.	0.0	0.0	0.	1910
GR	2856.8	75.	2852.5	400.	2849.9	500.	2849.5	595.	2844.0	732.	1920
GR	2843.0	750.	2843.5	822.	2837.2	835.	2838.7	850.	2836.5	854.	1930
GR	2835.9	857.	2835.9	865.	2835.6	874.	2835.6	884.	2836.5	890.	1940
GR	2842.5	900.	2844.1	960.	2849.0	960.	2849.0	1010.	2844.1	1010.	1950
GR	2844.2	1053.	2844.4	1065.	2843.0	1165.	2843.5	1205.	0.0	0.	1960
NC	0.080	0.090	0.050	0.0	0.0						1970
ET	0.	0.0	0.0	0.0	0.0	7.11	680.00	750.00	0.0	0.0	1980
X1	1.32	40.	693.	740.	1000.	1000.	1000.	0.0	0.0	0.	1990
GR	2892.5	5.	2881.5	40.	2874.5	100.	2872.5	130.	2869.0	250.	2000
GR	2866.7	300.	2866.5	345.	2868.0	400.	2865.0	435.	2866.5	465.	2010
GR	2866.3	475.	2861.0	500.	2865.0	565.	2863.5	650.	2864.0	685.	2020
GR	2862.0	693.	2857.3	693.	2856.5	700.	2856.4	710.	2857.0	712.	2030
GR	2856.0	730.	2856.5	740.	2864.0	740.	2863.0	760.	2880.0	760.	2040
GR	2880.0	810.	2863.0	810.	2862.8	880.	2880.0	880.	2880.0	920.	2050
GR	2862.7	920.	2862.5	1000.	2861.5	1010.	2858.5	1015.	2861.0	1020.	2060
GR	2862.6	1100.	2861.0	1200.	2860.8	1215.	2861.2	1224.	2861.2	1252.	2070
NC	0.070	0.090	0.050	0.0	0.0						2080
ET	0.	0.0	0.0	0.0	0.0	7.11	445.00	540.00	0.0	0.0	2090
X1	1.44	30.	446.	496.	600.	600.	600.	0.0	0.0	0.	2100
GR	2888.0	0.	2884.7	11.	2881.0	76.	2879.3	147.	2877.3	257.	2110

F01

GR	2876.2	273.	2876.0	410.	2887.5	410.	2887.5	440.	2876.4	440.	2120
GR	2876.4	446.	2868.8	463.	2867.8	477.	2867.8	485.	2867.6	488.	2130
GR	2868.7	492.	2875.7	496.	2876.3	540.	2888.0	540.	2888.0	585.	2140
GR	2876.5	585.	2876.5	600.	2876.3	640.	2888.5	640.	2888.5	680.	2150
GR	2876.2	680.	2876.2	700.	2875.8	700.	2875.0	800.	2875.0	1000.	2160
SB	1.25	1.60	3.00	0.	37.70	0.01	275.00	0.0	2867.2	2867.2	2170
ET	0.	0.0	0.0	0.0	0.0	7.11	445.00	540.00	0.0	0.0	2180

X1	1.44	0.	0.	0.	30.	30.	30.	0.0	0.0	0.	2190
X2	0.	0.0	1.	2874.6	2875.9	0.0	0.	0.0	0.0	0.	2200
BT	19.0	0.0	2888.0	0.0	11.0	2884.7	0.0	76.0	2881.0	0.0	2210
BT	147.0	2879.0	0.0	257.0	2877.3	0.0	273.0	2876.2	0.0	410.0	2220
BT	2876.0	0.0	455.0	2877.2	0.0	455.0	2878.6	0.0	500.0	2878.6	2230
BT	0.0	500.0	2877.2	0.0	550.0	2876.5	0.0	600.0	2876.5	0.0	2240
BT	640.0	2876.3	0.0	680.0	2876.2	0.0	700.0	2876.2	0.0	750.0	2250
BT	2875.8	0.0	800.0	2875.0	0.0	1000.0	2875.0	0.0	0.0	0.0	2260
ET	0.	0.0	0.0	0.0	0.0	7.11	445.00	540.00	0.0	0.0	2270

X1	1.44	32.	440.	496.	10.	10.	10.	0.0	0.0	0.	2280
GR	2888.0	0.	2884.7	11.	2881.0	76.	2879.3	147.	2877.3	257.	2290
GR	2876.2	273.	2876.3	297.	2888.0	297.	2888.0	333.	2876.3	333.	2300
GR	2876.0	410.	2876.4	440.	2876.4	446.	2868.8	463.	2867.8	477.	2310
GR	2867.8	485.	2867.6	488.	2868.7	492.	2875.7	496.	2876.3	540.	2320
GR	2888.0	540.	2888.0	585.	2876.5	585.	2876.5	600.	2876.3	640.	2330
GR	2888.5	640.	2888.5	680.	2876.2	680.	2876.2	700.	2875.8	750.	2340
GR	2875.0	800.	2875.0	1000.	0.0	0.	0.0	0.	0.0	0.	2350
NC	0.110	0.120	0.050	0.0	0.0						2360
ET	0.	0.0	0.0	0.0	0.0	7.11	440.00	510.00	0.0	0.0	2370

X1	1.53	45.	442.	495.	480.	480.	480.	0.0	0.0	0.	2380
GR	2909.5	20.	2904.0	33.	2894.5	80.	2893.5	100.	2893.5	125.	2390
GR	2888.3	345.	2888.8	365.	2888.3	435.	2888.5	438.	2887.5	442.	2400
GR	2881.0	445.	2878.5	474.	2877.6	477.	2878.5	488.	2879.5	492.	2410
GR	2882.5	495.	2883.0	524.	2900.0	524.	2900.0	570.	2883.7	570.	2420
GR	2884.5	645.	2900.0	645.	2900.0	690.	2885.0	690.	2884.8	765.	2430
GR	2900.0	765.	2900.0	810.	2884.1	810.	2883.6	845.	2884.0	868.	2440
GR	2882.5	870.	2883.6	873.	2883.9	900.	2884.0	905.	2900.0	905.	2450
GR	2900.0	950.	2884.0	950.	2885.0	1000.	2883.5	1081.	2881.5	1086.	2460
GR	2883.0	1095.	2883.5	1100.	2883.5	1123.	2889.0	1135.	2910.0	1165.	2470
ET	0.	0.0	0.0	0.0	0.0	7.11	205.00	330.00	0.0	0.0	2480

X1	1.64	21.	205.	250.	540.	540.	540.	0.0	-3.20	0.	2490
GR	2912.3	14.	2906.4	54.	2901.7	158.	2901.2	182.	2900.3	205.	2500
GR	2894.6	212.	2892.5	212.	2891.0	225.	2891.5	236.	2892.3	241.	2510
GR	2895.7	245.	2899.3	250.	2898.3	300.	2898.0	350.	2897.7	400.	2520
GR	2897.5	450.	2897.7	500.	2897.2	545.	2897.2	565.	2898.3	608.	2530
GR	2898.3	674.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	2540
ET	0.	0.0	0.0	0.0	0.0	7.11	205.00	450.00	0.0	0.0	2550

X1	1.66	0.	0.	0.	100.	100.	100.	0.0	3.20	0.	2560
ET	0.	0.0	0.0	0.0	0.0	7.11	205.00	450.00	0.0	0.0	2570

X1	1.66	26.	211.	246.	1.	1.	1.	0.0	0.0	0.	2580
BT	6.0	205.0	2900.8	0.0	211.0	2900.7	0.0	211.0	2900.7	2899.2	2590

601

BT	246.0	2899.6	2898.0	246.0	2899.6	0.0	250.0	2899.5	0.0	0.0	2600
GR	2912.3	14.	2906.4	54.	2901.7	158.	2900.8	205.	2900.7	211.	2610
GR	2899.2	211.	2892.5	213.	2891.5	219.	2891.2	228.	2890.5	233.	2620
GR	2891.2	238.	2891.5	240.	2891.8	242.	2892.5	245.	2898.0	246.	2630
GR	2900.6	246.	2900.6	250.	2898.3	300.	2898.0	350.	2897.7	400.	2640
GR	2897.5	450.	2897.7	500.	2897.2	545.	2897.2	565.	2898.3	608.	2650
GR	2898.3	674.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	2660
ET	0.	0.0	0.0	0.0	0.0	7.11	205.00	450.00	0.0	0.0	2670

X1	1.66	0.	0.	0.	30.	30.	30.	0.0	0.0	0.	2680
X2	0.	0.0	0.	0.0	0.0	0.0	1.	0.0	0.0	0.	2690
ET	0.	0.0	0.0	0.0	0.0	7.11	205.00	450.00	0.0	0.0	2700

X1	1.66	21.	205.	250.	1.	1.	1.	0.0	0.0	0.	2710
GR	2912.3	14.	2906.4	54.	2901.7	158.	2901.2	182.	2900.3	205.	2720
GR	2894.6	212.	2892.5	212.	2891.0	225.	2891.5	236.	2892.3	241.	2730
GR	2895.7	245.	2899.3	250.	2898.3	300.	2898.0	350.	2897.7	400.	2740
GR	2897.5	450.	2897.7	500.	2897.2	545.	2897.2	565.	2898.3	608.	2750
GR	2898.3	674.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	2760
ET	0.	0.0	0.0	0.0	0.0	7.11	205.00	450.00	0.0	0.0	2770

X1	1.66	0.	0.	0.	10.	10.	10.	0.0	0.0	0.	2780
NC	0.110	0.120	0.050	0.0	0.0						2790
ET	0.	0.0	0.0	0.0	0.0	7.11	440.00	700.00	0.0	0.0	2800

X1	1.78	23.	440.	505.	600.	600.	600.	0.0	0.0	0.	2810
GR	2940.0	58.	2920.5	240.	2917.5	300.	2914.0	440.	2908.0	462.	2820
GR	2904.5	462.	2904.5	470.	2904.0	475.	2904.0	480.	2903.9	485.	2830
GR	2904.0	490.	2911.3	500.	2912.5	505.	2911.6	648.	2909.6	725.	2840
GR	2909.5	745.	2912.3	900.	2913.5	1000.	2913.7	1100.	2916.0	1200.	2850
GR	2918.3	1267.	2918.8	1287.	2932.0	1308.	0.0	0.	0.0	0.	2860
ET	0.	0.0	0.0	0.0	0.0	7.11	440.00	700.00	0.0	0.0	2870

X1	1.78	0.	0.	0.	40.	40.	40.	0.0	0.0	0.	2880
ET	0.	0.0	0.0	0.0	0.0	7.11	440.00	700.00	0.0	0.0	2890

X1	1.78	30.	462.	508.	1.	1.	1.	0.0	0.0	0.	2900
BT	6.0	458.0	2913.0	0.0	462.0	2913.0	0.0	462.0	2915.0	2912.0	2910
BT	500.0	2915.0	2912.0	500.0	2912.5	0.0	508.0	2912.5	0.0	0.0	2920
GR	2940.0	58.	2920.5	240.	2917.5	300.	2913.0	458.	2912.0	462.	2930
GR	2904.5	465.	2904.5	470.	2912.0	470.	2912.0	471.	2904.5	471.	2940
GR	2904.0	475.	2904.0	480.	2903.9	485.	2904.0	489.	2912.0	489.	2950
GR	2912.0	490.	2904.0	490.	2911.3	500.	2912.5	500.	2912.5	508.	2960
GR	2911.6	648.	2909.6	725.	2909.5	745.	2912.3	900.	2913.5	1000.	2970
GR	2913.7	1100.	2916.0	1200.	2918.3	1267.	2918.8	1287.	2932.0	1308.	2980
ET	0.	0.0	0.0	0.0	0.0	7.11	440.00	700.00	0.0	0.0	2990

X1	1.78	0.	0.	0.	30.	30.	30.	0.0	0.0	0.	3000
X2	0.	0.0	0.	0.0	0.0	0.0	1.	0.0	0.0	0.	3010
NC	0.120	0.120	0.055	0.0	0.0						3020
ET	0.	0.0	0.0	0.0	0.0	7.11	440.00	700.00	0.0	0.0	3030

H01

X1	1.78	26.	462.	505.	1.	1.	1.	0.0	0.0	0.	3040
GR	2940.0	58.	2920.5	240.	2917.5	300.	2914.0	440.	2908.0	462.	3050
GR	2904.5	462.	2904.5	470.	2904.0	475.	2904.0	480.	2903.7	485.	3060
GR	2904.0	490.	2911.3	500.	2912.5	505.	2912.4	508.	2932.0	508.	3070
GR	2932.0	648.	2911.6	648.	2909.6	725.	2909.5	745.	2912.3	900.	3080
GR	2913.5	1000.	2913.7	1100.	2916.0	1200.	2918.3	1267.	2918.8	1287.	3090
GR	2932.0	1308.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	3100
ET	0.	0.0	0.0	0.0	0.0	7.11	440.00	700.00	0.0	0.0	3110
X1	1.78	30.	462.	505.	10.	10.	10.	0.0	0.0	0.	3120
GR	2940.0	58.	2920.5	240.	2917.5	300.	2915.0	390.	2930.0	390.	3130
GR	2930.0	420.	2914.2	420.	2914.0	440.	2908.0	462.	2904.5	462.	3140
GR	2904.5	470.	2904.0	475.	2904.0	480.	2903.7	485.	2904.0	490.	3150
GR	2911.3	500.	2912.5	505.	2912.4	508.	2932.0	508.	2932.0	648.	3160
GR	2911.6	648.	2909.6	725.	2909.5	745.	2912.3	900.	2913.5	1000.	3170
GR	2913.7	1100.	2916.0	1200.	2918.3	1267.	2918.8	1287.	2932.0	1308.	3180
QT	5.	1750.	2900.	3600.	5200.	3600.	0.	0.	0.	0.	3190
ET	0.	0.0	0.0	0.0	0.0	7.11	575.00	685.00	0.0	0.0	3200
X1	1.94	43.	608.	650.	760.	760.	760.	0.0	0.0	0.	3210
GR	2945.6	41.	2939.5	95.	2933.2	200.	2932.5	250.	2932.0	295.	3220
GR	2940.0	295.	2940.0	355.	2931.0	355.	2930.8	400.	2930.7	405.	3230
GR	2939.0	405.	2939.0	455.	2929.8	455.	2929.2	490.	2937.0	490.	3240
GR	2937.0	540.	2928.3	540.	2928.2	550.	2928.2	600.	2928.4	608.	3250
GR	2926.0	610.	2922.2	610.	2922.6	622.	2922.4	630.	2922.7	643.	3260
GR	2923.2	647.	2926.2	647.	2928.5	650.	2926.8	672.	2926.9	693.	3270
GR	2928.4	706.	2930.4	747.	2939.0	747.	2939.0	773.	2930.4	773.	3280
GR	2930.2	882.	2929.6	950.	2928.5	980.	2930.9	1050.	2930.6	1150.	3290
GR	2931.2	1195.	2933.6	1203.	2943.5	1245.	0.0	0.	0.0	0.	3300
SB	1.25	1.60	3.00	0.	37.20	0.01	137.50	0.0	2922.5	2922.5	3310
ET	0.	0.0	0.0	0.0	0.0	7.11	575.00	685.00	0.0	0.0	3320
X1	1.94	0.	0.	0.	30.	30.	30.	0.0	0.0	0.	3330
X2	0.	0.0	1.	2926.2	2926.9	0.0	0.	0.0	0.0	0.	3340
BT	28.0	41.0	2945.6	0.0	95.0	2939.5	0.0	200.0	2933.2	0.0	3350
BT	250.0	2932.5	0.0	300.0	2932.0	0.0	350.0	2931.0	0.0	400.0	3360
BT	2930.8	0.0	450.0	2930.0	0.0	500.0	2929.0	0.0	550.0	2928.2	3370
BT	0.0	600.0	2928.2	0.0	608.0	2928.4	0.0	608.0	2929.7	0.0	3380
BT	650.0	2929.7	0.0	650.0	2928.5	0.0	672.0	2926.8	0.0	693.0	3390
BT	2926.9	0.0	706.0	2928.4	0.0	747.0	2930.4	0.0	773.0	2930.4	3400
BT	0.0	882.0	2930.2	0.0	950.0	2929.6	0.0	980.0	2928.6	0.0	3410
BT	1050.0	2930.9	0.0	1150.0	2930.6	0.0	1195.0	2931.2	0.0	1203.0	3420
BT	2933.6	0.0	1245.0	2943.5	0.0	0.0	0.0	0.0	0.0	0.0	3430
ET	0.	0.0	0.0	0.0	0.0	7.11	575.00	685.00	0.0	0.0	3440
X1	1.94	46.	608.	650.	10.	10.	10.	0.0	0.0	0.	3450
GR	2945.6	41.	2939.5	95.	2933.2	200.	2932.8	225.	2941.0	225.	3460
GR	2941.0	275.	2932.2	275.	2932.0	300.	2931.5	325.	2941.5	325.	3470
GR	2941.5	365.	2930.9	365.	2930.8	400.	2929.9	455.	2938.5	455.	3480
GR	2938.5	495.	2929.0	495.	2928.5	530.	2938.5	530.	2938.5	560.	3490
GR	2928.5	560.	2928.2	600.	2928.4	608.	2926.0	610.	2922.2	610.	3500
GR	2922.6	622.	2922.4	630.	2922.7	643.	2923.2	647.	2926.2	647.	3510
GR	2928.5	650.	2926.8	672.	2926.9	693.	2928.4	706.	2930.4	747.	3520
GR	2939.0	747.	2939.0	773.	2930.4	773.	2930.2	882.	2929.6	950.	3530
GR	2928.6	980.	2930.9	1050.	2930.6	1150.	2931.2	1195.	2933.6	1203.	3540
GR	2943.5	1245.	0.0	0.	0.0	0.	0.0	0.	0.0	0.	3550

*PROF 1

CCHV= 0.100 CEHV= 0.500

*SECNO .020

3280 CROSS SECTION 0.02 EXTENDED 2.10 FEET

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.02	3700.	2.	2479.	1219.	0.92	0	205.	
2741.70	0.0	2.	269.	446.	0.50	0	2740.30	
7.20	2741.70	1.15	9.21	2.73	0.0	2742.62	2738.80	
0.011903	0.0	0.100	0.055	0.120	0.0	-0.00	197.67	
	2734.50	0.	0.	0.	26.	180.	403.00	0.

*SECNO .080

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.08	3700.	0.	3700.	0.	3.25	3	40.	
2746.16	2746.16	0.	256.	0.	2.33	8	2750.00	
7.46	0.0	0.0	14.46	0.0	5.19	2749.40	2749.90	
0.032721	0.055	0.090	0.055	0.110	1.16	0.0	60.00	
	2738.70	280.	280.	280.	20.	20.	100.00	3.

*SECNO .160

3301 HV CHANGED MORE THAN HVINS

0.16	3700.	7.	3693.	0.	2.72	3	47.	
2754.36	0.0	4.	279.	0.	-0.52	0	2752.30	
10.36	0.0	1.74	13.26	0.0	7.63	2757.08	2757.80	
0.012465	0.046	0.090	0.040	0.110	0.05	-0.00	540.96	
	2744.00	400.	400.	400.	32.	16.	588.11	6.

*SECNO .160

*** GR CARDS REPEATED

3265 DIVIDED FLOW

K01

3301 HV CHANGED MORE THAN HVINS

0.16	3700.	22.	3676.	2.	1.79	6	110.
2755.76	2753.98	12.	342.	7.	-0.94	8	2752.30
11.76	0.0	1.85	10.76	0.29	0.37	2757.54	2757.80
0.007065	0.046	0.090	0.040	0.110	0.09	-0.00	538.22
	2744.00	40.	40.	40.	34.	247.	819.25

*SECNO .160

3265 DIVIDED FLOW

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2759.50 MAX ELLC= 2760.50

0.16	3700.	0.	3700.	0.	1.99	2	51.
2755.67	0.0	0.	327.	0.	0.20	0	2763.00
11.67	0.0	0.0	11.32	0.0	0.01	2757.66	2761.70
0.021516	0.046	0.090	0.040	0.110	0.10	-0.00	538.52
	2744.00	1.	1.	1.	9.	45.	592.50

*SECNO .160

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.16 EXTENDED 0.33 FEET

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2759.50 MAX ELLC= 2760.50

0.16	3700.	0.	3698.	2.	1.40	3	76.
2756.84	0.0	0.	389.	3.	-0.59	0	2763.00
12.84	0.0	0.0	9.50	0.49	0.52	2758.24	2761.70
0.014360	0.045	0.090	0.040	0.110	0.06	-0.00	536.28
	2744.00	30.	30.	30.	12.	328.	876.00

*SECNO .160

3265 DIVIDED FLOW

3280 CROSS SECTION 0.16 EXTENDED 1.07 FEET

3301 HV CHANGED MORE THAN HVINS

0.16	3700.	183.	3193.	324.	0.73	3	357.	
2757.58	0.0	110.	434.	349.	-0.67	0	2752.30	
13.58	0.0	1.66	7.36	0.93	0.01	2758.31	2757.80	
0.002820	0.045	0.090	0.040	0.110	0.07	-0.00	503.37	
	2744.00	1.	1.	1.	69.	303.	875.00	6.

*SECNO .160

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.16 EXTENDED 1.29 FEET

0.16	3700.	207.	2988.	505.	0.57	2	373.	
2757.79	0.0	119.	446.	408.	-0.16	0	2752.30	
13.79	0.0	1.74	6.70	1.24	0.03	2758.36	2757.80	
0.004349	0.045	0.110	0.055	0.110	0.02	-0.00	501.65	
	2744.00	10.	10.	10.	71.	303.	875.00	6.

*SECNO .280

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.28	3700.	0.	3081.	619.	2.32	20	99.	
2767.26	2767.26	0.	232.	178.	1.75	14	2769.00	
8.06	0.0	0.0	13.29	3.47	5.00	2769.58	2761.20	
0.018006	0.045	0.070	0.045	0.120	0.87	-0.00	759.35	
	2759.20	640.	640.	640.	18.	81.	858.83	17.

*SECNO .280

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2771.00 ELREA= 2771.00

0.28	3700.	0.	3700.	0.	3.13	3	42.
2767.96	2767.96	0.	261.	0.	0.81	8	2769.00
8.76	0.0	0.0	14.19	0.0	0.73	2771.08	2761.20
0.018529	0.045	0.070	0.045	0.120	0.40	-0.00	757.61
	2759.20	40.	40.	40.	20.	23.	800.00

17.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.26	1.60	3.00	0.0	28.80	0.01	300.00	0.0
	ELCHU	ELCHD						
	2759.20	2759.20						

*SECNO .280

6870 D.S. ENERGY OF 2771.08 HIGHER THAN COMPUTED ENERGY OF 2770.55

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2771.74	2770.85	0.01	638.	3063.	300.	299.	2769.60

ELTRD
2770.00

*** NOTE: QWEIR IS GREATER THAN 0 AND ELEV IS LESS THAN ELTRD ***

0.28	3700.	0.	3700.	0.	4.37	9	40.
2766.71	0.0	0.	220.	0.	1.25	0	2771.70
7.51	0.0	0.0	16.78	0.0	0.0	2771.08	2772.70
0.033702	0.045	0.070	0.045	0.120	0.0	-0.00	763.95
	2759.20	30.	30.	30.	21.	19.	803.83

17.

*SECNO .280

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.28	3700.	0.	3700.	0.	1.78	13	43.
2769.72	2767.64	0.	346.	0.	-2.59	8	2771.70
10.52	0.0	0.0	10.71	0.0	0.16	2771.50	2772.70
0.009015	0.045	0.100	0.045	0.120	0.26	-0.00	762.77
	2759.20	10.	10.	10.	22.	21.	805.93

17.

*SECNO .370

3265 DIVIDED FLOW

3280 CROSS SECTION 0.37 EXTENDED 1.58 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.37	3700.	93.	3194.	413.	1.22	3	480.	
2777.48	2777.48	95.	335.	293.	-0.55	12	2777.20	
8.48	0.0	0.98	9.54	1.41	3.60	2778.70	2777.50	
0.008549	0.045	0.100	0.045	0.120	0.06	-0.00	485.24	
	2769.00	410.	410.	410.	231.	567.	1283.00	22.

*SECNO .510

3265 DIVIDED FLOW

3280 CROSS SECTION 0.51 EXTENDED 2.35 FEET

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.51	3700.	21.	2032.	1646.	0.74	20	754.	
2790.35	2790.35	36.	223.	716.	-0.48	9	2789.70	
7.65	0.0	0.60	9.11	2.30	7.43	2791.10	2789.70	
0.012706	0.046	0.100	0.050	0.100	0.05	-0.00	198.11	
	2782.70	720.	720.	720.	482.	520.	1200.00	36.

*SECNO .530

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.53 EXTENDED 2.34 FEET

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

0.53	3700.	20.	2038.	1642.	0.75	20	751.	
2793.14	2793.14	34.	223.	713.	0.01	5	2792.50	
7.64	0.0	0.59	9.14	2.30	0.83	2793.90	2792.50	
0.012837	0.046	0.100	0.050	0.100	0.00	0.0	198.21	
	2785.50	65.	65.	65.	482.	520.	1200.00	38.

*SECNO .530

*** GR CARDS REPEATED
 3280 CROSS SECTION 0.53 EXTENDED 3.19 FEET

3301 HV CHANGED MORE THAN HVINS

0.53	3700.	292.	1472.	1936.	0.23	3	1012.	
2793.99	0.0	350.	257.	1136.	-0.52	0	2792.50	
8.49	0.0	0.84	5.73	1.70	0.27	2794.22	2792.50	
0.004177	0.046	0.100	0.050	0.100	0.05	-0.00	187.76	
	2785.50	40.	40.	40.	492.	520.	1200.00	39.

SPECIAL BRIDGE

SB	HK	XKOR	COFA	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.80	3.00	0.0	30.30	0.01	100.00	0.0
	ELCHU	ELCHD						
	2787.00	2787.00						

*SECNO .530
 6870 D.S. ENERGY OF 2794.22 HIGHER THAN COMPUTED ENERGY OF 2794.14
 3280 CROSS SECTION 0.53 EXTENDED 3.20 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2828.00	2794.22	0.00	3455.	244.	100.	100.	2790.30

ELTRD
 2790.80

0.53	3700.	294.	1469.	1937.	0.23	2	1012.	
2793.99	0.0	351.	257.	1138.	-0.00	0	2792.50	
8.49	0.0	0.84	5.72	1.70	0.0	2794.22	2792.50	
0.004153	0.046	0.100	0.050	0.100	0.0	-0.00	187.70	
	2785.50	30.	30.	30.	492.	520.	1200.00	40.

*SECNO .530

3265 DIVIDED FLOW

3280 CROSS SECTION 0.53 EXTENDED 3.23 FEET

0.53	3700.	320.	1496.	1884.	0.24	0	953.	
2794.03	0.0	370.	258.	1065.	0.01	0	2792.50	
8.53	0.0	0.87	5.79	1.77	0.04	2794.27	2792.50	
0.004220	0.046	0.100	0.050	0.100	0.00	-0.00	187.22	
	2785.50	10.	10.	10.	493.	520.	1200.00	40.

*SECNO .690

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.69	3700.	198.	3113.	389.	1.41	20	307.	
2809.59	2809.59	121.	301.	206.	1.17	8	2808.50	
9.09	0.0	1.64	10.35	1.89	5.65	2811.00	2808.00	
0.010320	0.047	0.100	0.050	0.100	0.59	-0.00	154.10	
	2800.50	900.	900.	900.	133.	214.	500.84	64.

*SECNO .720

*** GR CARDS REPEATED

3265 DIVIDED FLOW

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.72	3700.	202.	3102.	395.	1.39	0	308.	
2811.11	2811.11	123.	302.	209.	-0.02	5	2810.00	
9.11	0.0	1.64	10.29	1.89	1.33	2812.50	2809.50	
0.010151	0.047	0.100	0.050	0.100	0.00	-0.00	153.34	
	2802.00	130.	130.	130.	134.	214.	500.89	66.

*SECNO .720

3301 HV CHANGED MORE THAN HVINS

D02

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX ELLC= 2808.70

0.72	3700.	814.	1280.	1606.	0.26	10	394.
2812.36	2811.34	305.	229.	516.	-1.13	13	2810.00
10.86	0.0	2.67	5.58	3.11	0.01	2812.62	2810.00
0.012593	0.047	0.100	0.050	0.100	0.11	-55.42	109.13
	2801.50	1.	1.	1.	176.	218.	503.20
							66.

*SECNO .720

*** GR CARDS REPEATED

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX ELLC= 2808.70

0.72	3700.	862.	1180.	1658.	0.20	2	404.
2812.64	0.0	350.	237.	571.	-0.05	0	2810.00
11.14	0.0	2.46	4.98	2.90	0.22	2812.85	2810.00
0.009587	0.047	0.100	0.050	0.100	0.01	-55.42	99.56
	2801.50	20.	20.	20.	185.	219.	503.90
							67.

*SECNO .720

*** GR CARDS REPEATED

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX ELLC= 2808.70

0.72	3700.	453.	2388.	859.	0.46	2	400.
2812.52	0.0	318.	358.	516.	0.26	0	2810.00
10.52	0.0	1.42	6.67	1.67	0.01	2812.98	2809.50
0.003400	0.047	0.100	0.050	0.100	0.13	-0.00	103.85
	2802.00	1.	1.	1.	183.	217.	504.19
							67.

*SECNO .720

*** GR CARDS REPEATED

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX ELLC= 2808.70

0.72	3700.	463.	2363.	873.	0.44	0	403.
2812.57	0.0	329.	361.	528.	-0.02	0	2810.00
10.57	0.0	1.41	6.56	1.65	0.03	2813.01	2809.50
0.003252	0.047	0.100	0.050	0.100	0.00	-0.00	101.61
	2802.00	10.	10.	10.	185.	217.	504.34
							67.

*SECNO .760

*** GR CARDS REPEATED

ALLEN CREEK 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.76	3700.	347.	2646.	707.	0.74	2	372.	
2813.26	0.0	205.	328.	367.	0.30	0	2811.50	
9.76	0.0	1.69	8.08	1.92	0.84	2814.00	2811.00	
0.005605	0.047	0.090	0.050	0.090	0.15	-0.00	130.47	
	2803.50	200.	200.	200.	157.	215.	502.41	
							72.	

*SECNO .840

ALLEN CREEK

100 YEAR FLOOD 08/01/81

E02

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.84	3700.	369.	3040.	292.	1.16	7	326.	
2819.42	2819.42	188.	320.	171.	0.42	10	2818.00	
8.92	0.0	1.96	9.49	1.71	3.05	2820.58	2818.00	
0.008815	0.048	0.090	0.050	0.090	0.21	-0.00	424.32	
	2810.50	440.	440.	440.	156.	170.	750.00	80.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDL EN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	32.50	0.01	240.00	0.0
	ELCHU	ELCHD						
	2810.50	2810.50						

*SECNO .840

*** GR CARDS REPEATED

6870 D.S. ENERGY OF 2820.58 HIGHER THAN COMPUTED ENERGY OF 2820.46
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2820.46	2820.19	0.00	2181.	1551.	240.	244.	2818.00

ELTRD
2817.00

0.84	3700.	385.	3003.	312.	1.10	4	328.	
2819.48	0.0	197.	323.	181.	-0.06	0	2818.00	
8.98	0.0	1.95	9.30	1.73	0.0	2820.58	2818.00	
0.008365	0.048	0.090	0.050	0.090	0.0	-0.00	422.21	
	2810.50	30.	30.	30.	158.	170.	750.00	80.

*SECNO .840

*** GR CARDS REPEATED

0.84	3700.	468.	2819.	413.	0.84	4	339.	
2819.84	0.0	247.	337.	233.	-0.26	0	2818.00	
9.34	0.0	1.89	8.37	1.78	0.07	2820.68	2818.00	
0.006408	0.048	0.090	0.050	0.090	0.03	-0.00	411.36	
	2810.50	10.	10.	10.	169.	170.	750.00	81.

*SECNO .900

*** GR CARDS REPEATED

ALLEN CREEK

100 YEAR FLOOD

08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT

F02

SLOPE	WTN ELMIN	XNL XLOBL	XNCH XLCH	XNR XLOBR	OLOSS WSDL	CORAR WSDR	SSTA ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.90	3700.	335.	3115.	250.	1.29	2	321.	
2822.49	2822.49	170.	315.	150.	0.45	12	2821.20	
8.79	0.0	1.97	9.89	1.67	1.96	2823.77	2821.20	
0.009795	0.048	0.090	0.050	0.090	0.22	-0.00	428.56	
	2813.70	250.	250.	250.	151.	170.	750.00	85.

*SECNO 980

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN ELMIN	XNL XLOBL	XNCH XLCH	XNR XLOBR	OLOSS WSDL	CORAR WSDR	SSTA ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.98	3650.	0.	3650.	0.	2.76	3	51.	
2828.42	2828.42	0.	274.	0.	1.47	15	2828.50	
7.02	0.0	0.0	13.32	0.03	6.43	2831.17	2829.50	
0.025812	0.048	0.090	0.050	0.090	0.73	-0.00	709.16	
	2821.40	430.	430.	430.	25.	96.	830.12	89.

*SECNO 1.050

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

1.05	3650.	8.	3637.	5.	1.99	3	76.	
2836.74	0.0	7.	321.	4.	-0.77	0	2835.90	
7.94	0.0	1.15	11.33	1.23	7.48	2838.73	2836.90	
0.015488	0.048	0.090	0.050	0.090	0.08	-0.00	693.02	
	2828.80	380.	380.	380.	41.	101.	835.88	92.

*SECNO 1.120

3265 DIVIDED FLOW

3280 CROSS SECTION 1.12 EXTENDED 0.54 FEET

3301 HV CHANGED MORE THAN HVINS

1.12	3650.	63.	3486.	101.	0.70	5	341.	
2844.04	0.0	67.	506.	115.	-1.28	0	2843.50	
8.44	0.0	0.94	6.89	0.88	5.89	2844.74	2842.50	
0.004735	0.048	0.090	0.050	0.090	0.13	-0.00	731.01	
	2835.60	750.	750.	750.	130.	344.	1205.00	101.

*SECNO 1.320

3265 DIVIDED FLOW

3280 CROSS SECTION 1.32 EXTENDED 1.81 FEET

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.32	3650.	81.	2755.	814.	0.97	20	495.	
2863.01	2863.01	44.	306.	399.	0.26	12	2862.00	
7.01	0.0	1.83	9.02	2.04	6.68	2863.97	2864.00	
0.010128	0.049	0.080	0.050	0.090	0.13	-0.00	490.54	
	2856.00	1000.	1000.	1000.	226.	536.	1252.00	117.

*SECNO 1.440

3265 DIVIDED FLOW

3280 CROSS SECTION 1.44 EXTENDED 1.52 FEET

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.44	3650.	62.	2854.	734.	0.92	13	617.	
2876.52	2876.52	59.	329.	420.	-0.04	12	2876.40	
8.92	0.0	1.05	8.68	1.75	5.39	2877.44	2875.70	
0.008033	0.049	0.070	0.050	0.090	0.00	0.0	268.35	
	2867.60	600.	600.	600.	203.	529.	1000.00	128.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	37.70	0.01	275.00	0.0

H02

ELCHU ELCHD
2867.20 2867.20

*SECNO 1.440

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2877.44 HIGHER THAN COMPUTED ENERGY OF 2876.97

3265 DIVIDED FLOW

3280 CROSS SECTION 1.44 EXTENDED 1.69 FEET

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2880.90	2877.45	0.00	2489.	1170.	275.	279.	2874.60

ELTRD
2875.90

1.44	3650.	101.	2716.	833.	0.76	3	619.	
2876.68	0.0	85.	337.	493.	-0.17	0	2876.40	
9.08	0.0	1.20	8.05	1.69	0.0	2877.44	2875.70	
0.006675	0.049	0.070	0.050	0.090	0.0	-0.00	265.85	
	2867.60	30.	30.	30.	205.	529.	1000.00	128.

*SECNO 1.440

3265 DIVIDED FLOW

3280 CROSS SECTION 1.44 EXTENDED 2.03 FEET

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

*SECNO 1.530

3265 DIVIDED FLOW

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.53	3650.	0.	2768.	882.	0.98	20	503.	
2885.29	2885.29	0.	305.	558.	0.48	14	2887.50	
7.69	0.0	0.0	9.09	1.58	3.31	2886.28	2882.50	
0.009867	0.049	0.110	0.050	0.120	0.24	-0.00	443.02	
	2877.60	480.	480.	480.	25.	658.	1126.91	140.

*SECNO 1.640
 3280 CROSS SECTION 1.64 EXTENDED 1.04 FEET

ALLEN CREEK 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.64	3650.	0.	2601.	1049.	1.05	10	468.	
2896.14	2896.14	0.	269.	601.	0.06	8	2897.10	
8.34	0.0	0.0	9.66	1.75	5.68	2897.19	2896.10	
0.011236	0.049	0.110	0.050	0.120	0.03	-0.00	206.18	
	2887.80	540.	540.	540.	21.	447.	674.00	150.

*SECNO 1.660

*** GR CARDS REPEATED

3280 CROSS SECTION 1.66 EXTENDED 1.07 FEET

ALLEN CREEK 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.66	3650.	0.	2584.	1066.	1.02	20	468.	
2899.37	2899.37	0.	270.	612.	-0.03	5	2900.30	
8.37	0.0	0.0	9.55	1.74	1.11	2900.38	2899.30	
0.010947	0.049	0.110	0.050	0.120	0.00	-0.00	206.15	
	2891.00	100.	100.	100.	21.	447.	674.00	152.

*SECNO 1.660

3265 DIVIDED FLOW

3280 CROSS SECTION 1.66 EXTENDED 1.90 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK	100 YEAR FLOOD				08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRHS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	LOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2899.50 MAX ELLC= 2899.20

1.66	3650.	0.	1431.	2219.	0.26	6	450.	
2900.21	0.0	0.	245.	936.	-0.76	0	2900.70	
9.71	0.0	0.0	5.85	2.37	0.01	2900.47	2900.60	
0.011698	0.049	0.110	0.050	0.120	0.08	-50.37	211.00	
	2890.50	1.	1.	1.	18.	446.	674.00	152.

*SECNO 1.660

*** GR CARDS REPEATED

3280 CROSS SECTION 1.66 EXTENDED 2.31 FEET

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2899.50 MAX ELLC= 2899.20

1.66	3650.	0.	1196.	2454.	0.16	2	463.	
2900.61	0.0	0.	255.	1108.	-0.10	0	2900.70	
10.11	0.0	0.0	4.68	2.21	0.30	2900.78	2900.60	
0.008400	0.049	0.110	0.050	0.120	0.01	-54.15	211.00	
	2890.50	30.	30.	30.	18.	446.	674.00	153.

*SECNO 1.660

3280 CROSS SECTION 1.66 EXTENDED 2.22 FEET

1.66	3650.	0.	2019.	1631.	0.35	2	475.	
2900.52	0.0	1.	322.	1102.	0.19	0	2900.30	
9.52	0.0	0.20	6.27	1.48	0.01	2900.88	2899.30	
0.003886	0.049	0.110	0.050	0.120	0.10	-0.00	199.27	
	2891.00	1.	1.	1.	28.	447.	674.00	153.

*SECNO 1.660

*** GR CARDS REPEATED

3280 CROSS SECTION 1.66 EXTENDED 2.29 FEET

1.66	3650.	0.	1998.	1652.	0.34	0	476.	
2900.58	0.0	1.	325.	1128.	-0.02	0	2900.30	
9.58	0.0	0.23	6.15	1.46	0.04	2900.92	2899.30	
0.003698	0.049	0.110	0.050	0.120	0.00	-0.00	197.71	
	2891.00	10.	10.	10.	30.	447.	674.00	154.

*SECNO 1.780

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.78	3650.	0.	2909.	741.	1.14	20	398.	
2912.20	2912.20	0.	304.	405.	0.81	12	2914.00	
8.30	0.0	0.0	9.56	1.83	3.76	2913.34	2912.50	
0.012878	0.049	0.110	0.050	0.120	0.40	-0.00	446.62	
	2903.90	600.	600.	600.	26.	422.	894.22	168.

*SECNO 1.780

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		

1.78	3650.	0.	2372.	1278.	0.43	3	539.	
2913.29	0.0	0.	369.	865.	-0.71	0	2914.00	
9.39	0.0	0.0	6.42	1.48	0.30	2913.71	2912.50	
0.005000	0.049	0.110	0.050	0.120	0.07	-0.00	442.65	
	2903.90	40.	40.	40.	30.	509.	981.40	169.

*SECNO 1.780

3370 NORMAL BRIDGE,HRD= 6 MIN ELTRD= 2912.50 MAX ELLC= 2912.00

1.78	3650.	5.	1254.	2391.	0.20	2	588.	
2913.54	0.0	8.	244.	995.	-0.23	0	2912.00	
9.64	0.0	0.70	5.14	2.40	0.01	2913.74	2912.50	
0.011710	0.049	0.110	0.050	0.120	0.02	-60.99	438.60	
	2903.90	1.	1.	1.	46.	541.	1026.24	169.

*SECNO 1.780

*** GR CARDS REPEATED

L02

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2912.50 MAX ELLC= 2912.00

1.78	3650.	14.	1072.	2564.	0.14	2	683.
2913.91	0.0	18.	247.	1201.	-0.06	0	2912.00
10.01	0.0	0.78	4.34	2.14	0.29	2914.04	2912.50
0.008257	0.049	0.110	0.050	0.120	0.01	-74.48	426.14
	2903.90	30.	30.	30.	59.	624.	1109.02
							170.

*SECNO 1.780

3265 DIVIDED FLOW

1.78	3650.	97.	2162.	1391.	0.38	2	523.
2913.79	0.0	61.	341.	890.	0.25	0	2908.00
10.09	0.0	1.58	6.34	1.56	0.01	2914.17	2912.50
0.004142	0.049	0.120	0.055	0.120	0.12	-0.00	440.77
	2903.70	1.	1.	1.	43.	620.	1103.86
							170.

*SECNO 1.780

3265 DIVIDED FLOW

1.78	3650.	98.	2140.	1412.	0.37	0	526.
2913.85	0.0	63.	344.	919.	-0.02	0	2908.00
10.15	0.0	1.56	6.22	1.54	0.04	2914.21	2912.50
0.003957	0.049	0.120	0.055	0.120	0.00	-0.00	440.55
	2903.70	10.	10.	10.	43.	623.	1106.51
							171.

*SECNO 1.940

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		

3685 20 TRIALS ATTEMPTED WSEL, CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.94	3600.	215.	2944.	441.	1.43	20	304.
2929.74	2929.74	112.	279.	192.	1.06	15	2928.40
7.54	0.0	1.92	10.56	2.30	5.32	2931.17	2928.50
0.015777	0.049	0.120	0.055	0.120	0.53	-0.00	458.79
	2922.20	760.	760.	760.	170.	386.	1014.55
							187.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	37.20	0.01	137.50	0.0

ELCHU ELCHD
2922.50 2922.50

*SECNO 1.940

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2931.17 HIGHER THAN COMPUTED ENERGY OF 2930.57

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2946.77	2931.17	0.00	2803.	796.	138.	138.	2926.20

ELTRD
2926.90

1.94	3600.	246.	2870.	484.	1.26	4	337.
2929.91	0.0	130.	286.	223.	-0.17	0	2928.40
7.71	0.0	1.90	10.03	2.17	0.0	2931.17	2928.50
0.013733	0.049	0.120	0.055	0.120	0.0	-0.00	455.00
	2922.20	30.	30.	30.	174.	391.	1019.92
							188.

*SECNO 1.940

3265 DIVIDED FLOW

1.94	3600.	290.	2668.	643.	0.87	8	518.
2930.44	2929.83	169.	308.	359.	-0.39	6	2928.40
8.24	0.0	1.72	8.65	1.79	0.11	2931.32	2928.50
0.009253	0.049	0.120	0.055	0.120	0.04	-0.00	422.07
	2922.20	10.	10.	10.	207.	407.	1035.97
							188.

*SECNO 1.980

3265 DIVIDED FLOW

ALLEN CREEK		100 YEAR FLOOD			08/01/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST
							VOL

3685 20 TRIALS ATTEMPTED WSEL, CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.98	3600.	58.	2212.	1330.	0.83	20	606.
2934.73	2934.73	40.	240.	774.	-0.05	13	2931.50
10.33	0.0	1.46	9.21	1.72	1.76	2935.56	2932.00
0.010345	0.049	0.120	0.055	0.120	0.00	-0.00	381.56
	2924.40	180.	180.	180.	51.	580.	1012.59
							192.

SPECIAL BRIDGE

A03

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.40	0.01	165.00	0.0
	ELCHU	ELCHD						
	2924.40	2924.40						

*SECNO 1.980

6870 D.S. ENERGY OF 2935.56 HIGHER THAN COMPUTED ENERGY OF 2934.98

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2934.98	2934.94	0.00	3097.	525.	165.	167.	2932.20
ELTRD							
2931.70							
1.98	3600.	61.	2135.	1403.	0.73	2	608.
2934.83	0.0	43.	244.	834.	-0.10	0	2931.50
10.43	0.0	1.41	8.76	1.68	0.0	2935.56	2932.00
0.009209	0.049	0.120	0.055	0.120	0.0	-0.00	380.15
	2924.40	30.	30.	30.	53.	580.	1012.90
							193.

*SECNO 1.980

*** GR CARDS REPEATED

3265 DIVIDED FLOW

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
1.98	3600.	71.	1952.	1577.	0.52	3	614.	
2935.14	0.0	55.	252.	988.	-0.20	0	2931.50	
10.74	0.0	1.30	7.74	1.60	0.08	2935.66	2932.00	
0.006857	0.049	0.120	0.055	0.120	0.02	-0.00	375.17	
	2924.40	10.	10.	10.	58.	581.	1013.69	193.

*SECNO 2.130

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
1.98	3600.	71.	1952.	1577.	0.52	3	614.	
2935.14	0.0	55.	252.	988.	-0.20	0	2931.50	
10.74	0.0	1.30	7.74	1.60	0.08	2935.66	2932.00	
0.006857	0.049	0.120	0.055	0.120	0.02	-0.00	375.17	
	2924.40	10.	10.	10.	58.	581.	1013.69	193.

B03

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.13	3600.	0.	3071.	529.	1.44	20	241.	
2949.92	2949.92	0.	296.	259.	0.91	21	2951.20	
6.92	0.0	0.0	10.38	2.04	7.65	2951.36	2951.00	
0.015148	0.049	0.080	0.050	0.120	0.46	-0.00	339.08	
	2943.00	780.	780.	780.	29.	300.	668.00	209.

THIS RUN EXECUTED 08/01/81 8:23:39

 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53,54

T1	WAYNESVILLE NC	3970
T2	100 YEAR FLOODWAY	3980
T3	ALLEN CREEK	3990

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	0.	6.	0.	0.	0.0	0.	0.0	0.	2742.70	0.0	4000
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	15.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	4010

D03

*PROF 2

CCHV= 0.100 CEHV= 0.500

*SECNO .020

3280 CROSS SECTION 0.02 EXTENDED 3.10 FEET

ALLEN CREEK			100 YEAR FLOODWA	08/01/81				
MILE	Q	QLOB	QCH	HV	ITRIAL	TOPWID		
ELEV	CRISW	ALOB	ACH	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3470 ENCROACHMENT STATIONS=			195.0	285.0	TYPE= 1	TARGET=	90.000	
0.02	3700.	8.	3255.	437.	1.47	0	89.	
2742.70	0.0	5.	316.	142.	0.50	0	2740.30	
8.20	2741.70	1.66	10.30	3.08	0.0	2744.17	2738.80	
0.011999	0.0	0.100	0.055	0.120	0.0	-0.00	196.00	
	2734.50	0.	0.	0.	28.	61.	285.00	0.

*SECNO .080

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=			60.0	100.0	TYPE= 1	TARGET=	40.000	
0.08	3700.	0.	3700.	0.	2.71	2	40.	
2746.76	0.0	0.	280.	0.	1.24	0	2750.00	
8.06	2746.16	0.0	13.20	0.0	4.69	2749.47	100000.00	
0.024940	0.055	0.090	0.055	0.110	0.62	-0.00	60.00	
	2738.70	280.	280.	280.	20.	20.	100.00	2.

*SECNO .160

3470 ENCROACHMENT STATIONS=			500.0	585.0	TYPE= 1	TARGET=	85.000	
0.16	3700.	4.	3696.	0.	3.10	4	43.	
2753.97	2753.83	3.	262.	0.	0.39	11	2752.30	
9.97	2754.36	1.62	14.13	0.0	7.40	2757.07	100000.00	
0.014280	0.046	0.090	0.040	0.110	0.19	-0.00	541.71	
	2744.00	400.	400.	400.	31.	12.	585.00	5.

*SECNO .160

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=			500.0	585.0	TYPE= 1	TARGET=	85.000	
0.16	3700.	19.	3681.	0.	1.95	4	47.	
2755.62	0.0	11.	327.	0.	-1.14	0	2752.30	
11.62	2755.76	1.80	11.25	0.0	0.39	2757.57	100000.00	
0.007032	0.046	0.090	0.040	0.110	0.11	-0.00	538.49	
	2744.00	40.	40.	40.	34.	12.	585.00	5.

*SECNO .160
3700. BRIDGE STENCL= 500.00 STENCR= 585.00

3265 DIVIDED FLOW

ALLEN CREEK		100 YEAR FLOODWA			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLCGR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2759.50 MAX ELLC= 2760.50

3470 ENCROACHMENT STATIONS=		500.0	585.0	TYPE=	1	TARGET=	85.000	
0.16	3700.	0.	3700.	0.	2.16	11	44.	
2755.53	0.0	0.	314.	0.	0.20	0	100000.00	
11.53	2755.67	0.0	11.78	0.0	0.01	2757.69	100000.00	
0.021600	0.046	0.090	0.040	0.110	0.10	-0.00	538.78	
	2744.00	1.	1.	1.	9.	37.	585.00	5.

*SECNO .160

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.16 EXTENDED 0.18 FEET

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2759.50 MAX ELLC= 2760.50

3470 ENCROACHMENT STATIONS=		500.0	585.0	TYPE=	1	TARGET=	85.000	
0.16	3700.	0.	3700.	0.	1.59	3	46.	
2756.69	0.0	0.	366.	0.	-0.57	0	100000.00	
12.69	2756.84	0.0	10.12	0.0	0.53	2758.27	100000.00	
0.014872	0.045	0.090	0.040	0.110	0.06	-0.00	536.57	
	2744.00	30.	30.	30.	11.	37.	585.00	5.

*SECNO .160

3280 CROSS SECTION 0.16 EXTENDED 0.57 FEET

3470 ENCROACHMENT STATIONS=		500.0	585.0	TYPE=	1	TARGET=	85.000	
0.16	3700.	165.	3535.	0.	1.25	2	78.	
2757.06	0.0	90.	385.	0.	-0.34	0	2752.30	
13.06	2757.58	1.84	9.18	0.0	0.01	2758.32	100000.00	
0.003919	0.045	0.090	0.040	0.110	0.03	-0.00	507.35	
	2744.00	1.	1.	1.	65.	12.	585.00	5.

*SECNO .160

*** GR CARDS REPEATED

3280 CROSS SECTION 0.16 EXTENDED 0.66 FEET

3470 ENCROACHMENT STATIONS=	500.0	585.0	TYPE=	1	TARGET=	85.000		
0.16	3700.	191.	3509.	0.	1.20	1	78.	
2757.17	0.0	93.	389.	0.	-0.05	0	2752.30	
13.17	2757.79	2.05	9.02	0.0	0.05	2758.37	100000.00	
0.007085	0.045	0.110	0.055	0.110	0.01	-0.00	506.61	
	2744.00	10.	10.	10.	66.	12.	585.00	6.

*SECNO .280

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	750.0	860.0	TYPE=	1	TARGET=	110.000		
0.28	3700.	0.	3061.	639.	2.13	18	101.	
2767.44	2767.44	0.	239.	189.	0.93	14	2769.00	
8.24	2767.26	0.0	12.79	3.38	6.57	2769.57	2761.20	
0.018212	0.045	0.070	0.045	0.120	0.46	-0.00	758.89	
	2759.20	640.	640.	640.	19.	82.	860.00	12.

*SECNO .280

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	750.0	860.0	TYPE=	1	TARGET=	110.000		
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3495 OVERBANK AREA ASSUMED NON-EFFECTIVE,ELLEA=	2771.00	ELREA=	2771.00
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0.28	3700.	0.	3700.	0.	3.12	3	42.
2767.96	2767.96	0.	261.	0.	0.99	8	2769.00

603

8.76	2767.96	0.0	14.17	0.0	0.69	2771.08	2761.20	
0.018469	0.045	0.070	0.045	0.120	0.49	-0.00	757.59	
	2759.20	40.	40.	40.	20.	23.	800.00	13.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.26	1.60	3.00	0.0	28.80	0.01	300.00	0.0
	ELCHU	ELCHD						
	2759.20	2759.20						

*SECNO .280
 3700. BRIDGE STENCL= 750.00 STENCR= 860.00
 ***ERROR** ELTRD.LT.MIN ROAD ELEV, ELTRD SET EQUAL TO MIN ROAD ELEV
 3280 CROSS SECTION 0.28 EXTENDED 0.14 FEET

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2771.74	2770.85	0.01	0.	3245.	300.	299.	2769.60
ELTRD							
2772.06							

3470 ENCROACHMENT STATIONS=	750.0	860.0	TYPE=	1	TARGET=	110.000		
0.28	3700.	0.	3700.	0.	1.60	3	44.	
2770.14	0.0	0.	364.	0.	-1.52	0	2771.70	
10.94	2766.71	0.0	10.16	0.0	0.66	2771.74	2772.70	
0.007756	0.045	0.070	0.045	0.120	0.0	-0.00	762.61	
	2759.20	30.	30.	30.	22.	21.	806.22	13.

*SECNO .280

*** GR CARDS REPEATED
 3280 CROSS SECTION 0.28 EXTENDED 0.27 FEET

3470 ENCROACHMENT STATIONS=	750.0	860.0	TYPE=	1	TARGET=	110.000		
0.28	3700.	0.	3700.	0.	1.56	0	44.	
2770.27	0.0	0.	370.	0.	-0.05	0	2771.70	
11.07	2769.72	0.0	10.01	0.0	0.08	2771.82	2772.70	
0.007430	0.045	0.100	0.045	0.120	0.00	-0.00	762.56	
	2759.20	10.	10.	10.	22.	21.	806.31	13.

*SECNO .370

3280 CROSS SECTION 0.37 EXTENDED 0.61 FEET

H03

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRIS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	640.0	760.0	TYPE=	1	TARGET=	120.000			
0.37	3700.	0.	3700.	0.	2.70	3	54.		
2776.51	2776.51	0.	281.	0.	1.14	15	2777.20		
7.51	2777.48	0.0	13.18	0.0	4.61	2779.20	2777.50		
0.019001	0.045	0.100	0.045	0.120	0.57	-0.00	689.41		
	2769.00	410.	410.	410.	27.	27.	743.20	16.	

*SECNO .510
3280 CROSS SECTION 0.51 EXTENDED 0.56 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRIS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	550.0	900.0	TYPE=	1	TARGET=	350.000			
0.51	3700.	231.	2583.	886.	1.07	4	350.		
2791.36	2791.36	129.	263.	367.	-1.63	8	2789.70		
8.66	2790.35	1.80	9.80	2.41	10.63	2792.43	2789.70		
0.011801	0.046	0.100	0.050	0.100	0.16	-0.00	550.00		
	2782.70	720.	720.	720.	130.	220.	900.00	24.	

*SECNO .530
*** GR CARDS REPEATED
3280 CROSS SECTION 0.53 EXTENDED 0.50 FEET

ALLEN CREEK		100 YEAR FLOODWA			08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRIS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	550.0	920.0	TYPE=	1	TARGET=	370.000		
0.53	3700.	210.	2522.	968.	1.01	20	370.	
2794.10	2794.10	122.	261.	404.	-0.05	6	2792.50	
8.60	2793.14	1.72	9.66	2.40	0.76	2795.11	2792.50	
0.011605	0.046	0.100	0.050	0.100	0.01	-0.00	550.00	
	2785.50	65.	65.	65.	130.	240.	920.00	26.

*SECNO .530

*** GR CARDS REPEATED

3280 CROSS SECTION 0.53 EXTENDED 4.21 FEET

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	550.0	920.0	TYPE=	1	TARGET=	370.000		
0.53	3700.	374.	2080.	1247.	0.45	3	370.	
2795.01	0.0	222.	297.	604.	-0.56	0	2792.50	
9.51	2793.99	1.69	6.99	2.07	0.30	2795.46	2792.50	
0.005113	0.046	0.100	0.050	0.100	0.06	-0.00	550.00	
	2785.50	40.	40.	40.	130.	240.	920.00	27.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	30.30	0.01	100.00	0.0
	ELCHU	ELCHD						
	2787.00	2787.00						

*SECNO .530

3700. BRIDGE STENCL= 550.00 STENCR= 920.00
 6870 D.S. ENERGY OF 2795.46 HIGHER THAN COMPUTED ENERGY OF 2795.34
 3280 CROSS SECTION 0.53 EXTENDED 4.23 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2829.02	2795.46	0.00	3336.	367.	100.	100.	2790.30
ELTRD							
2790.80							

3470 ENCROACHMENT STATIONS=	550.0	920.0	TYPE=	1	TARGET=	370.000		
0.53	3700.	376.	2073.	1251.	0.45	2	370.	
2795.02	0.0	224.	298.	608.	-0.01	0	2792.50	
9.52	2793.99	1.68	6.95	2.06	0.0	2795.46	2792.50	
0.005038	0.046	0.100	0.050	0.100	0.0	-0.00	550.00	
	2785.50	30.	30.	30.	130.	240.	920.00	27.

*SECNO .530

3265 DIVIDED FLOW

3280 CROSS SECTION 0.53 EXTENDED 4.20 FEET

3470 ENCROACHMENT STATIONS=	550.0	920.0	TYPE=	1	TARGET=	370.000		
0.53	3700.	407.	2272.	1022.	0.58	2	310.	
2795.00	0.0	221.	297.	452.	0.14	0	2792.50	
9.50	2794.03	1.84	7.65	2.26	0.06	2795.59	2792.50	
0.006114	0.046	0.100	0.050	0.100	0.07	-0.00	550.00	
	2785.50	10.	10.	10.	130.	240.	920.00	28.

*SECNO .690

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	220.0	360.0	TYPE=	1	TARGET=	140.000		
0.69	3700.	93.	3494.	113.	2.10	20	140.	
2809.37	2809.37	51.	292.	59.	1.52	11	2808.50	
8.87	2809.59	1.84	11.96	1.90	8.05	2811.47	2808.00	
0.014335	0.047	0.100	0.050	0.100	0.76	-0.00	220.00	
	2800.50	900.	900.	900.	67.	73.	360.00	42.

*SECNO .720

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3470 ENCROACHMENT STATIONS=	220.0	360.0	TYPE=	1	TARGET=	140.000		
0.72	3700.	168.	3333.	199.	1.54	2	140.	
2811.52	0.0	81.	318.	94.	-0.56	0	2810.00	
9.52	2811.11	2.07	10.47	2.12	1.53	2813.06	2809.50	
0.009807	0.047	0.100	0.050	0.100	0.06	-0.00	220.00	
	2802.00	130.	130.	130.	67.	73.	360.00	43.

K03

*SECNO .720

3700.	BRIDGE STENCL=	220.00	STENCR=	360.00				
ALLEN CREEK		100	YEAR FLOODWA	08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	LOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX ELLC= 2808.70

3685 20 TRIALS ATTEMPTED WSEL, CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	220.0	360.0	TYPE=	1	TARGET=	140.000	
0.72	3700.	644.	2403.	654.	1.38	20	140.
2811.99	2811.99	112.	219.	123.	-0.16	13	2810.00
10.49	2812.36	5.73	10.98	5.30	0.02	2813.37	2810.00
0.051907	0.047	0.100	0.050	0.100	0.02	-39.22	220.00
	2801.50	1.	1.	1.	65.	75.	360.00
							43.

*SECNO .720

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX ELLC= 2808.70

3470 ENCROACHMENT STATIONS=	220.0	360.0	TYPE=	1	TARGET=	140.000	
0.72	3700.	885.	1878.	938.	0.57	2	140.
2813.45	0.0	187.	260.	213.	-0.81	0	2810.00
11.95	2812.64	4.73	7.22	4.40	0.57	2814.02	2810.00
0.017857	0.047	0.100	0.050	0.100	0.08	-39.22	220.00
	2801.50	20.	20.	20.	65.	75.	360.00
							43.

*SECNO .720

3470 ENCROACHMENT STATIONS=	220.0	360.0	TYPE=	1	TARGET=	140.000	
0.72	3700.	345.	2953.	402.	0.71	2	140.
2813.39	0.0	169.	393.	193.	0.14	0	2810.00
11.39	2812.52	2.05	7.52	2.08	0.01	2814.10	2809.50
0.003820	0.047	0.100	0.050	0.100	0.07	-0.00	220.00
	2802.00	1.	1.	1.	67.	73.	360.00
							43.

*SECNO .720

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=	220.0	360.0	TYPE=	1	TARGET=	140.000	
0.72	3700.	350.	2944.	406.	0.70	2	140.
2813.44	0.0	171.	395.	195.	-0.01	0	2810.00

L03

11.44	2812.57	2.04	7.46	2.08	0.04	2814.14	2803.50	
0.003731	0.047	0.100	0.050	0.100	0.00	-0.00	220.10	
	2802.00	10.	10.	10.	67.	73.	360.00	44.

*SECNO .760

*** GR CARDS REPEATED

ALLEN CREEK		100 YEAR FLOODWA			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3470 ENCROACHMENT STATIONS=	220.0	360.0	TYPE=	1	TARGET=	140.000		
0.76	3700.	315.	3017.	368.	0.88	2	140.	
2814.21	0.0	137.	366.	157.	0.18	0	2811.50	
10.71	2813.26	2.30	8.25	2.34	0.86	2815.09	2811.00	
0.005052	0.047	0.090	0.050	0.090	0.09	-0.00	220.00	
	2803.50	200.	200.	200.	67.	73.	360.00	47.

*SECNO .840

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	480.0	630.0	TYPE=	1	TARGET=	150.000		
0.84	3700.	208.	3447.	45.	1.95	4	150.	
2818.85	2818.85	93.	297.	26.	1.07	15	2818.00	
8.35	2819.42	2.24	11.59	1.75	3.52	2820.80	2818.00	
0.014503	0.048	0.090	0.050	0.090	0.54	-0.00	480.00	
	2810.50	440.	440.	440.	100.	50.	630.00	52.

SPECIAL BRIDGE

SB	HK	XKOR	COFq	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	32.50	0.01	240.00	0.0
	ELCHU	ELCHD						
	2810.50	2810.50						

*SECNO .840

3700. BRIDGE STENCL= 480.00 STENCR= 630.00

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2821.33	2820.62	0.00	1313.	2396.	240.	244.	2818.00

ELTRD
2817.00

3470 ENCROACHMENT STATIONS=	480.0	630.0	TYPE=	1	TARGET=	150.000		
0.84	3700.	531.	3012.	158.	0.90	3	150.	
2820.43	0.0	219.	361.	73.	-1.05	0	2818.00	
9.93	2819.48	2.42	8.35	2.16	0.53	2821.33	2818.00	
0.005820	0.048	0.090	0.050	0.090	0.0	-0.00	480.00	
	2810.50	30.	30.	30.	100.	50.	630.00	53.

*SECNO .840

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=	480.0	630.0	TYPE=	1	TARGET=	150.000		
0.84	3700.	548.	2988.	164.	0.86	0	150.	
2820.53	0.0	227.	365.	76.	-0.04	0	2818.00	
10.03	2819.84	2.41	8.20	2.16	0.06	2821.39	2818.00	
0.005528	0.048	0.090	0.050	0.090	0.00	-0.00	480.00	
	2810.50	10.	10.	10.	100.	50.	630.00	53.

*SECNO .900

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	530.0	630.0	TYPE=	1	TARGET=	100.000		
0.90	3700.	45.	3609.	45.	2.25	4	100.	
2822.03	2821.69	25.	297.	25.	1.39	17	2821.20	
8.33	2822.49	1.82	12.17	1.82	2.19	2824.28	2821.20	
0.016046	0.048	0.090	0.050	0.090	0.69	-0.00	530.00	
	2813.70	250.	250.	250.	50.	50.	630.00	56.

*SECNO .980

ALLEN CREEK

100 YEAR FLOODWA 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3470 ENCROACHMENT STATIONS=	705.0	770.0	TYPE=	1	TARGET=	65.000	
0.98	3650.	4.	3646.	0.	2.08	3	55.
2829.22	0.0	2.	315.	0.	-0.16	0	2828.50
7.82	2828.42	1.42	11.58	0.0	7.01	2831.30	2829.50
0.016565	0.048	0.090	0.050	0.090	0.02	-0.00	705.00

A04

2821.40 430. 430. 430. 30. 26. 760.00 59.

*SECNO 1.050

*** GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=	705.0	770.0	TYPE=	1	TARGET=	65.000		
1.05	3650.	0.	3650.	0.	2.44	2	55.	
2836.15	0.0	1.	291.	0.	0.36	0	2835.90	
7.35	2836.74	0.68	12.53	0.0	7.11	2838.59	2836.90	
0.021318	0.048	0.090	0.050	0.090	0.18	-0.00	705.00	
	2828.80	380.	380.	380.	30.	26.	760.00	62.

*SECNO 1.120

3280 CROSS SECTION 1.12 EXTENDED 0.88 FEET

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	820.0	900.0	TYPE=	1	TARGET=	80.000		
1.12	3650.	1.	3649.	0.	0.73	4	80.	
2844.38	0.0	2.	533.	0.	-1.71	0	2843.50	
8.78	2844.04	0.80	6.85	0.0	6.34	2845.10	100000.00	
0.004502	0.048	0.090	0.050	0.090	0.17	-0.00	820.00	
	2835.60	750.	750.	750.	41.	39.	900.00	69.

*SECNO 1.320

3280 CROSS SECTION 1.32 EXTENDED 1.03 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK	100 YEAR FLOODWA				08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	680.0	750.0	TYPE=	1	TARGET=	70.000		
1.32	3650.	0.	3650.	0.	2.86	20	48.	
2862.23	2862.23	0.	269.	0.	2.13	16	2862.00	
6.23	2863.01	0.70	13.56	0.0	9.04	2865.09	2864.00	
0.026647	0.049	0.080	0.050	0.090	1.06	0.0	692.08	
	2856.00	1000.	1000.	1000.	24.	24.	740.00	78.

*SECNO 1.440

3280 CROSS SECTION 1.44 EXTENDED 0.85 FEET

3470 ENCROACHMENT STATIONS=	445.0	540.0	TYPE=	1	TARGET=	95.000		
1.44	3650.	0.	3650.	0.	2.37	7	59.	
2875.84	2875.24	0.	295.	1.	-0.48	11	2876.40	
8.24	2876.52	0.0	12.36	0.39	13.08	2878.21	2875.70	
0.018160	0.049	0.070	0.050	0.090	0.05	-0.00	447.24	
	2867.60	600.	600.	600.	24.	36.	506.70	82.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	37.70	0.01	275.00	0.0
	ELCHU	ELCHD						
	2867.20	2867.20						

*SECNO 1.440
 3700. BRIDGE STENCL= 445.00 STENCR= 540.00

*** GR CARDS REPEATED
 3280 CROSS SECTION 1.44 EXTENDED 2.94 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK			100 YEAR FLOODWA	08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2880.22	2878.22	0.01	502.	3129.	275.	279.	2874.60
ELTRD							
2875.90							

3470 ENCROACHMENT STATIONS=	445.0	540.0	TYPE=	1	TARGET=	95.000		
1.44	3650.	2.	3480.	168.	1.13	3	95.	
2877.93	0.0	2.	400.	85.	-1.25	0	2876.40	
10.33	2876.68	1.20	8.71	1.98	0.85	2879.06	2875.70	
0.006229	0.049	0.070	0.050	0.090	0.0	-0.00	445.00	
	2867.60	30.	30.	30.	26.	69.	540.00	82.

*SECNO 1.440
 3280 CROSS SECTION 1.44 EXTENDED 3.06 FEET

3470 ENCROACHMENT STATIONS=	445.0	540.0	TYPE=	1	TARGET=	95.000	
1.44	3650.	0.	3465.	185.	1.07	0	95.

C04

2878.06	0.0	0.	407.	90.	-0.05	0	100000.00		
10.46	2877.03	0.0	8.51	2.04	0.06	2879.13	2875.70		
0.006173	0.049	0.070	0.050	0.090	0.01	-0.00	445.00		
	2867.60	10.	10.	10.	23.	72.	540.00		82.

*SECNO 1.530

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	440.0	510.0	TYPE=	1	TARGET=	70.000			
1.53	3650.	0.	3561.	89.	2.52	11	67.		
2884.75	2884.75	0.	276.	32.	1.45	19	2887.50		
7.15	2885.29	0.0	12.88	2.81	5.08	2887.27	2882.50		
0.022224	0.049	0.110	0.050	0.120	0.72	-0.00	443.27		
	2877.60	480.	480.	480.	25.	41.	510.00		87.

*SECNO 1.640

ALLEN CREEK		100 YEAR FLOODWA			08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	205.0	330.0	TYPE=	1	TARGET=	125.000			
1.64	3650.	0.	3481.	169.	2.17	3	124.		
2896.55	2896.55	0.	288.	94.	-0.34	11	2897.10		
8.75	2896.14	0.0	12.11	1.79	10.27	2898.73	2896.10		
0.016469	0.049	0.110	0.050	0.120	0.03	-0.00	205.67		
	2887.80	540.	540.	540.	22.	102.	330.00		91.

*SECNO 1.660

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	

D04

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=		205.0	450.0	TYPE=	1	TARGET=	245.000	
1.66	3650.	0.	3050.	600.	1.53	2	244.	
2899.62	2899.62	0.	282.	304.	-0.64	5	2900.30	
8.62	2899.37	0.0	10.83	1.97	1.49	2901.15	2899.30	
0.013472	0.049	0.110	0.050	0.120	0.06	-0.00	205.84	
	2891.00	100.	100.	100.	22.	222.	450.00	92.

*SECNO 1.660

3700. BRIDGE STENCL= 205.00 STENCR= 450.00
 3280 CROSS SECTION 1.66 EXTENDED 2.41 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2899.50 MAX ELLC= 2899.20

3470 ENCROACHMENT STATIONS=		205.0	450.0	TYPE=	1	TARGET=	245.000	
1.66	3650.	0.	1955.	1695.	0.56	11	239.	
2900.70	0.0	0.	258.	489.	-0.97	0	2900.70	
10.20	2900.21	0.02	7.57	3.46	0.02	2901.27	2900.60	
0.022261	0.049	0.110	0.050	0.120	0.10	-54.26	210.63	
	2890.50	1.	1.	1.	18.	221.	450.00	92.

*SECNO 1.660

*** GR CARDS REPEATED

3280 CROSS SECTION 1.66 EXTENDED 3.14 FEET

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2899.50 MAX ELLC= 2899.20

3470 ENCROACHMENT STATIONS=		205.0	450.0	TYPE=	1	TARGET=	245.000	
1.66	3650.	5.	1717.	1929.	0.34	2	245.	
2901.44	0.0	4.	284.	639.	-0.22	0	2900.70	
10.94	2900.61	1.10	6.05	3.02	0.49	2901.78	2900.60	
0.012526	0.049	0.110	0.050	0.120	0.02	-54.26	205.00	
	2890.50	30.	30.	30.	24.	221.	450.00	93.

*SECNO 1.660

3280 CROSS SECTION 1.66 EXTENDED 3.05 FEET

E04

3470 ENCROACHMENT STATIONS=	205.0	450.0	TYPE=	1	TARGET=	245.000	
1.66	3650.	0.	2503.	1147.	0.53	2	245.
2901.35	0.0	0.	359.	650.	0.19	0	2900.30
10.35	2900.52	0.0	6.97	1.77	0.01	2901.88	2899.30
0.004266	0.049	0.110	0.050	0.120	0.10	-0.00	205.00
	2891.00	1.	1.	1.	23.	222.	450.00
							93.

*SECNO 1.660

*** GR CARDS REPEATED

3280 CROSS SECTION 1.66 EXTENDED 3.11 FEET

3470 ENCROACHMENT STATIONS=	205.0	450.0	TYPE=	1	TARGET=	245.000	
1.66	3650.	0.	2488.	1162.	0.52	2	245.
2901.41	0.0	0.	362.	662.	-0.02	0	2900.30
10.41	2900.58	0.0	6.88	1.76	0.04	2901.92	2899.30
0.004119	0.049	0.110	0.050	0.120	0.00	-0.00	205.00
	2891.00	10.	10.	10.	23.	222.	450.00
							93.

*SECNO 1.780

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK			100 YEAR FLOODWA	08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	440.0	700.0	TYPE=	1	TARGET=	260.000	
1.78	3650.	0.	3413.	237.	1.61	20	255.
2912.54	2912.54	0.	324.	154.	1.09	9	2914.00
8.64	2912.20	0.0	10.53	1.54	4.27	2914.15	2912.50
0.015108	0.049	0.110	0.050	0.120	0.55	-0.00	445.36
	2903.90	600.	600.	600.	27.	227.	700.00
							103.

*SECNO 1.780

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK			100 YEAR FLOODWA	08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

F04

3470 ENCROACHMENT STATIONS=	440.0	700.0	TYPE=	1	TARGET=	260.000	
1.78	3650.	0.	2973.	677.	0.67	4	260.
2913.93	0.0	0.	410.	424.	-0.94	0	2914.00
10.03	2913.29	0.0	7.24	1.59	0.35	2914.60	2912.50
0.005788	0.049	0.110	0.050	0.120	0.09	-0.00	440.28
	2903.90	40.	40.	40.	32.	227.	700.00
							104.

*SECNO 1.780

3700. BRIDGE STENCL= 440.00 STENCR= 700.00

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2912.50 MAX ELLC= 2912.00

3470 ENCROACHMENT STATIONS=	440.0	700.0	TYPE=	1	TARGET=	260.000	
1.78	3650.	28.	2084.	1538.	0.72	2	260.
2913.91	0.0	15.	247.	416.	0.05	0	2912.00
10.01	2913.54	1.82	8.44	3.70	0.01	2914.63	2912.50
0.031209	0.049	0.110	0.050	0.120	0.02	-74.67	440.00
	2903.90	1.	1.	1.	45.	215.	700.00
							104.

*SECNO 1.780

*** GR CARDS REPEATED

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2912.50 MAX ELLC= 2912.00

3470 ENCROACHMENT STATIONS=	440.0	700.0	TYPE=	1	TARGET=	260.000	
1.78	3650.	86.	1523.	2042.	0.33	3	260.
2914.98	0.0	39.	256.	620.	-0.39	0	2912.00
11.08	2913.91	2.21	5.96	3.29	0.63	2915.30	2912.50
0.015061	0.049	0.110	0.050	0.120	0.04	-115.06	440.00
	2903.90	30.	30.	30.	45.	215.	700.00
							104.

*SECNO 1.780

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	440.0	700.0	TYPE=	1	TARGET=	260.000	
1.78	3650.	176.	3055.	419.	0.84	2	120.
2914.73	0.0	82.	382.	205.	0.52	0	2908.00
11.03	2913.79	2.15	8.01	2.05	0.01	2915.57	2912.50
0.005701	0.049	0.120	0.055	0.120	0.26	-0.00	440.00
	2903.70	1.	1.	1.	44.	216.	700.00
							104.

*SECNO 1.780

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 440.0 700.0 TYPE= 1 TARGET= 260.000

604

1.78	3650.	179.	3046.	425.	0.82	2	120.
2914.80	0.0	84.	385.	209.	-0.02	0	2908.00
11.10	2913.85	2.14	7.91	2.03	0.06	2915.63	2912.50
0.005504	0.049	0.120	0.055	0.120	0.00	-0.00	440.80
	2903.70	10.	10.	10.	44.	216.	700.00
							105.

*SECNO 1.940

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK			100 YEAR FLOODWA		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	575.0	685.0	TYPE=	1	TARGET=	110.000		
1.94	3600.	87.	3293.	220.	2.15	20	110.	
2929.48	2929.48	41.	268.	75.	1.33	14	2928.40	
7.28	2929.74	2.11	12.29	2.95	7.45	2931.63	2928.50	
0.022490	0.049	0.120	0.055	0.120	0.67	-0.00	575.00	
	2922.20	760.	760.	760.	54.	56.	685.00	114.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	37.20	0.01	137.50	0.0
ELCHU	ELCHD							
2922.50	2922.50							

*SECNO 1.940

3700. BRIDGE STENCL= 575.00 STENCR= 685.00

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2946.51	2931.64	0.01	2213.	1393.	138.	138.	2926.20
ELTRD							
2926.90							

3470 ENCROACHMENT STATIONS=	575.0	685.0	TYPE=	1	TARGET=	110.000		
1.94	3600.	195.	3076.	329.	1.20	3	110.	
2930.83	0.0	86.	325.	122.	-0.95	0	2928.40	
8.63	2929.91	2.27	9.47	2.69	0.40	2932.03	2928.50	
0.010333	0.049	0.120	0.055	0.120	0.0	-0.00	575.00	

H04

2922.20 30. 30. 30. 54. 56. 685.00 114.

*SECNO 1.940

3470 ENCROACHMENT STATIONS= 575.0 685.0 TYPE= 1 TARGET= 110.000
 1.94 3600. 199. 3062. 340. 1.14 0 110.
 2930.99 0.0 89. 331. 128. -0.06 0 2928.40
 8.79 2930.44 2.23 9.24 2.66 0.10 2932.13 2928.50
 0.009580 0.049 0.120 0.055 0.120 0.01 -0.00 575.00
 2922.20 10. 10. 10. 54. 56. 685.00 114.

*SECNO 1.980

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 410.0 510.0 TYPE= 1 TARGET= 100.000
 1.98 3600. 48. 3321. 231. 2.77 20 75.
 2934.69 2934.69 17. 239. 80. 1.63 8 2931.50
 10.29 2934.73 2.89 13.89 2.90 2.58 2937.47 2932.00
 0.023716 0.049 0.120 0.055 0.120 0.82 -0.00 410.00
 2924.40 180. 180. 180. 23. 77. 510.00 116.

SPECIAL BRIDGE

SB	HK	XKOR	COFq	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.40	0.01	165.00	0.0
	ELCHU	ELCHD						
	2924.40	2924.40						

*SECNO 1.980

3700. BRIDGE STENCL= 410.00 STENCR= 510.00
 PRESS FLOW BECAUSE EGLWC OF 2937.48 EXCEEDS 1.5 DEPTH
 6870 D.S. ENERGY OF 2937.47 HIGHER THAN COMPUTED ENERGY OF 2936.58

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2946.52	2937.48	0.01	2161.	1432.	165.	167.	2932.20

ELTRD

2931.70

3470 ENCROACHMENT STATIONS=		410.0	510.0	TYPE=	1	TARGET=	100.000	
1.98	3600.	52.	3298.	250.	2.60	5	75.	
2934.87	0.0	18.	245.	86.	-0.18	0	2931.50	
10.47	2934.83	2.88	13.48	2.89	0.0	2937.47	2932.00	
0.021662	0.049	0.120	0.055	0.120	0.0	-0.00	410.00	
	2924.40	30.	30.	30.	23.	77.	510.00	116.

*SECNO 1.980

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3470 ENCROACHMENT STATIONS=		410.0	510.0	TYPE=	1	TARGET=	100.000	
1.98	3600.	71.	3193.	336.	1.91	4	75.	
2935.80	0.0	25.	272.	120.	-0.69	0	2931.50	
11.40	2935.14	2.79	11.73	2.80	0.17	2937.71	2932.00	
0.014247	0.049	0.120	0.055	0.120	0.07	-0.00	410.00	
	2924.40	10.	10.	10.	23.	77.	510.00	116.

*SECNO 2.130

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=		335.0	400.0	TYPE=	1	TARGET=	65.000	
2.13	3600.	0.	3600.	0.	2.48	2	58.	
2949.74	2949.74	0.	285.	0.	0.57	14	2951.20	
6.74	2949.92	0.0	12.63	0.0	13.96	2952.22	100000.00	
0.023166	0.049	0.080	0.050	0.120	0.28	-0.00	339.53	
	2943.00	780.	780.	780.	28.	30.	398.01	123.

THIS RUN EXECUTED 08/01/81 8:23:47

 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53,54

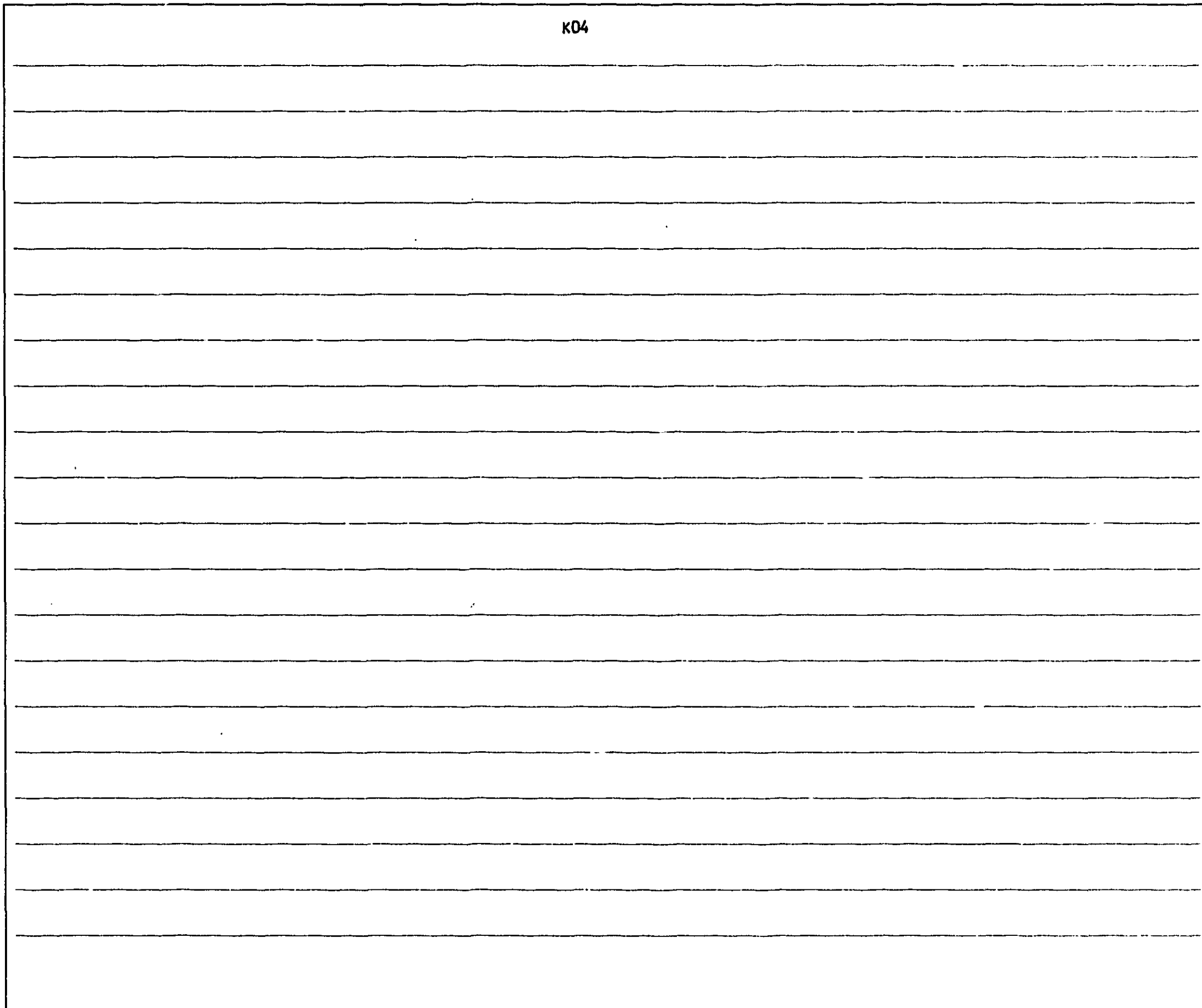
NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER
 INDICATES MESSAGE IN SUMMARY OF ERRORS LIST/

 ALLEN CREEK

SUMMARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
0.020	2741.70	0.0	2742.62	205.	0.	0.	0.	200.	247.	2.	2479.	1219.
0.020	2742.70	1.00	2744.17	89.	90.	195.	285.	200.	247.	8.	3255.	437.
* 0.080	2746.16	0.0	2749.40	40.	0.	0.	0.	60.	100.	0.	3700.	0.
0.080	2746.76	0.61	2749.47	40.	40.	60.	100.	60.	100.	0.	3700.	0.
0.160	2754.36	0.0	2757.08	47.	0.	0.	0.	545.	600.	7.	3693.	0.
0.160	2753.97	-0.38	2757.07	43.	85.	500.	585.	545.	600.	4.	3696.	0.
0.160	2755.76	0.0	2757.54	110.	0.	0.	0.	545.	600.	22.	3676.	2.
0.160	2755.62	-0.14	2757.57	47.	85.	500.	585.	545.	600.	19.	3681.	0.
0.160	2755.67	0.0	2757.66	51.	0.	0.	0.	496.	600.	0.	3700.	0.
0.160	2755.53	-0.14	2757.69	44.	85.	500.	585.	496.	600.	0.	3700.	0.
0.160	2756.84	0.0	2758.24	76.	0.	0.	0.	496.	600.	0.	3698.	2.
0.160	2756.68	-0.15	2758.27	46.	85.	500.	585.	496.	600.	0.	3700.	0.
0.160	2757.58	0.0	2758.31	357.	0.	0.	0.	545.	600.	183.	3193.	324.
0.160	2757.06	-0.52	2758.32	78.	85.	500.	585.	545.	600.	165.	3535.	0.
0.160	2757.79	0.0	2758.36	373.	0.	0.	0.	545.	600.	207.	2988.	505.
0.160	2757.17	-0.62	2758.37	78.	85.	500.	585.	545.	600.	191.	3509.	0.
* 0.280	2767.26	0.0	2769.58	99.	0.	0.	0.	755.	800.	0.	3081.	619.
* 0.280	2767.44	0.18	2769.57	101.	110.	750.	860.	755.	800.	0.	3061.	639.
* 0.280	2767.96	0.0	2771.08	42.	0.	0.	0.	755.	800.	0.	3700.	0.
* 0.280	2767.96	0.01	2771.08	42.	110.	750.	860.	755.	800.	0.	3700.	0.
0.280	2766.71	0.0	2771.08	40.	0.	0.	0.	762.	808.	0.	3700.	0.
0.280	2770.14	3.43	2771.74	44.	110.	750.	860.	762.	808.	0.	3700.	0.
0.280	2769.72	0.0	2771.50	43.	0.	0.	0.	762.	808.	0.	3700.	0.
0.280	2770.27	0.55	2771.82	44.	110.	750.	860.	762.	808.	0.	3700.	0.
* 0.370	2777.48	0.0	2778.70	480.	0.	0.	0.	688.	745.	93.	3194.	413.
* 0.370	2776.51	-0.97	2779.20	54.	120.	640.	760.	688.	745.	0.	3700.	0.

K04



This table consists of 17 empty rows, each with a single column. It occupies the majority of the page below the header.

SECNO	CWSEL	DIFKWS	EG	TOPMID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
*	0.510	2790.35	0.0	2791.10	754.	0.	0.	660.	700.	21.	2032.	1646.
*	0.510	2791.36	1.01	2792.43	350.	550.	900.	660.	700.	231.	2583.	886.
*	0.530	2793.14	0.0	2793.90	751.	0.	0.	660.	700.	20.	2038.	1642.
*	0.530	2794.10	0.95	2795.11	370.	550.	920.	660.	700.	210.	2522.	968.
	0.530	2793.99	0.0	2794.22	1012.	0.	0.	660.	700.	292.	1472.	1936.
	0.530	2795.01	1.02	2795.46	370.	550.	920.	660.	700.	374.	2080.	1247.
	0.530	2793.99	0.0	2794.22	1012.	0.	0.	660.	700.	294.	1469.	1937.
	0.530	2795.02	1.02	2795.46	370.	550.	920.	660.	700.	376.	2073.	1251.
	0.530	2794.03	0.0	2794.27	953.	0.	0.	660.	700.	320.	1496.	1884.
	0.530	2795.00	0.97	2795.59	310.	550.	920.	660.	700.	407.	2272.	1022.
*	0.690	2809.59	0.0	2811.00	307.	0.	0.	267.	307.	198.	3113.	389.
*	0.690	2809.37	-0.22	2811.47	140.	220.	360.	267.	307.	93.	3494.	113.
*	0.720	2811.11	0.0	2812.50	308.	0.	0.	267.	307.	202.	3102.	395.
*	0.720	2811.52	0.40	2813.06	140.	220.	360.	267.	307.	168.	3333.	199.
*	0.720	2812.36	0.0	2812.62	394.	0.	0.	271.	299.	814.	1280.	1606.
*	0.720	2811.99	-0.37	2813.37	140.	220.	360.	271.	299.	644.	2403.	654.
	0.720	2812.64	0.0	2812.85	404.	0.	0.	271.	299.	862.	1180.	1658.
	0.720	2813.45	0.81	2814.02	140.	220.	360.	271.	299.	885.	1878.	938.
	0.720	2812.52	0.0	2812.98	400.	0.	0.	267.	307.	453.	2388.	859.
	0.720	2813.39	0.87	2814.10	140.	220.	360.	267.	307.	345.	2953.	402.
	0.720	2812.57	0.0	2813.01	403.	0.	0.	267.	307.	463.	2363.	873.
	0.720	2813.44	0.86	2814.14	140.	220.	360.	267.	307.	350.	2944.	406.
	0.760	2813.26	0.0	2814.00	372.	0.	0.	267.	307.	347.	2646.	707.
	0.760	2814.21	0.95	2815.09	140.	220.	360.	267.	307.	315.	3017.	368.
*	0.840	2819.42	0.0	2820.58	326.	0.	0.	560.	600.	369.	3040.	292.
*	0.840	2818.85	-0.57	2820.80	150.	480.	630.	560.	600.	208.	3447.	45.
	0.840	2819.48	0.0	2820.58	328.	0.	0.	560.	600.	385.	3003.	312.
	0.840	2820.43	0.95	2821.33	150.	480.	630.	560.	600.	531.	3012.	158.
	0.840	2819.84	0.0	2820.68	339.	0.	0.	560.	600.	468.	2819.	413.
	0.840	2820.53	0.69	2821.39	150.	480.	630.	560.	600.	548.	2988.	164.
*	0.900	2822.49	0.0	2823.77	321.	0.	0.	560.	600.	335.	3115.	250.
*	0.900	2822.03	-0.46	2824.28	100.	530.	630.	560.	600.	45.	3609.	45.
*	0.980	2828.42	0.0	2831.17	51.	0.	0.	709.	760.	0.	3650.	0.
*	0.980	2829.22	0.80	2831.30	55.	705.	770.	709.	760.	4.	3646.	0.
	1.050	2836.74	0.0	2838.73	76.	0.	0.	709.	760.	8.	3637.	5.
	1.050	2836.15	-0.59	2838.59	55.	705.	770.	709.	760.	0.	3650.	0.
	1.120	2844.06	0.0	2844.74	341.	0.	0.	822.	900.	63.	3486.	101.
	1.120	2844.38	0.34	2845.10	80.	820.	900.	822.	900.	1.	3649.	0.

M04

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
*	1.320	2863.01	0.0	2863.97	495.	0.	0.	0.	693.	740.	81.	2755.	814.
*	1.320	2862.23	-0.77	2865.09	48.	70.	680.	750.	693.	740.	0.	3650.	0.
*	1.440	2876.52	0.0	2877.44	617.	0.	0.	0.	446.	496.	62.	2854.	734.
	1.440	2875.84	-0.68	2878.21	59.	95.	445.	540.	446.	496.	0.	3650.	0.
	1.440	2876.68	0.0	2877.44	619.	0.	0.	0.	446.	496.	101.	2716.	833.
	1.440	2877.93	1.25	2879.06	95.	95.	445.	540.	446.	496.	2.	3480.	168.
	1.440	2877.03	0.0	2877.53	618.	0.	0.	0.	440.	496.	154.	2444.	1052.
	1.440	2878.06	1.03	2879.13	95.	95.	445.	540.	440.	496.	0.	3465.	185.
*	1.530	2885.29	0.0	2886.28	503.	0.	0.	0.	442.	495.	0.	2768.	882.
*	1.530	2884.75	-0.54	2887.27	67.	70.	440.	510.	442.	495.	0.	3561.	89.
*	1.640	2896.14	0.0	2897.19	468.	0.	0.	0.	205.	250.	0.	2601.	1049.
*	1.640	2896.55	0.41	2898.73	124.	125.	205.	330.	205.	250.	0.	3481.	169.
*	1.660	2899.37	0.0	2900.38	468.	0.	0.	0.	205.	250.	0.	2584.	1066.
*	1.660	2899.62	0.25	2901.15	244.	245.	205.	450.	205.	250.	0.	3050.	600.
	1.660	2900.21	0.0	2900.47	450.	0.	0.	0.	211.	246.	0.	1431.	2219.
	1.660	2900.70	0.49	2901.27	239.	245.	205.	450.	211.	246.	0.	1955.	1695.
	1.660	2900.61	0.0	2900.78	463.	0.	0.	0.	211.	246.	0.	1196.	2454.
	1.660	2901.44	0.82	2901.78	245.	245.	205.	450.	211.	246.	5.	1717.	1929.
	1.660	2900.52	0.0	2900.88	475.	0.	0.	0.	205.	250.	0.	2019.	1631.
	1.660	2901.35	0.82	2901.88	245.	245.	205.	450.	205.	250.	0.	2503.	1147.
	1.660	2900.58	0.0	2900.92	476.	0.	0.	0.	205.	250.	0.	1998.	1652.
	1.660	2901.41	0.83	2901.92	245.	245.	205.	450.	205.	250.	0.	2488.	1162.
*	1.780	2912.20	0.0	2913.34	398.	0.	0.	0.	440.	505.	0.	2909.	741.
*	1.780	2912.54	0.34	2914.15	255.	260.	440.	700.	440.	505.	0.	3413.	237.
	1.780	2913.29	0.0	2913.71	539.	0.	0.	0.	440.	505.	0.	2372.	1278.
	1.780	2913.93	0.64	2914.60	260.	260.	440.	700.	440.	505.	0.	2973.	677.
	1.780	2913.54	0.0	2913.74	588.	0.	0.	0.	462.	508.	5.	1254.	2391.
	1.780	2913.91	0.37	2914.63	260.	260.	440.	700.	462.	508.	28.	2084.	1538.
	1.780	2913.91	0.0	2914.04	683.	0.	0.	0.	462.	508.	14.	1072.	2564.
	1.780	2914.98	1.07	2915.30	260.	260.	440.	700.	462.	508.	86.	1523.	2042.
	1.780	2913.79	0.0	2914.17	523.	0.	0.	0.	462.	505.	97.	2162.	1391.
	1.780	2914.72	0.94	2915.57	120.	260.	440.	700.	462.	505.	176.	3055.	419.
	1.780	2913.85	0.0	2914.21	526.	0.	0.	0.	462.	505.	98.	2140.	1412.
	1.780	2914.80	0.96	2915.63	120.	260.	440.	700.	462.	505.	179.	3046.	425.
*	1.940	2929.74	0.0	2931.17	304.	0.	0.	0.	608.	650.	215.	2944.	441.
*	1.940	2929.48	-0.26	2931.63	110.	110.	575.	685.	608.	650.	87.	3293.	220.
	1.940	2929.91	0.0	2931.17	337.	0.	0.	0.	608.	650.	246.	2870.	484.
	1.940	2930.82	0.92	2932.03	110.	110.	575.	685.	608.	650.	195.	3076.	329.

A05

SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
1.940	2930.44	0.0	2931.32	518.	0.	0.	0.	608.	650.	290.	2668.	643.
1.940	2930.99	0.55	2932.13	110.	110.	575.	685.	608.	650.	199.	3062.	340.
*	1.980	2934.73	0.0	2935.56	606.	0.	0.	418.	448.	58.	2212.	1330.
*	1.980	2934.69	-0.04	2937.47	75.	100.	410.	510.	418.	48.	3321.	231.
1.980	2934.83	0.0	2935.56	608.	0.	0.	0.	418.	448.	61.	2135.	1403.
1.980	2934.87	0.04	2937.47	75.	100.	410.	510.	418.	448.	52.	3298.	250.
1.980	2935.14	0.0	2935.66	614.	0.	0.	0.	418.	448.	71.	1952.	1577.
1.980	2935.80	0.66	2937.71	75.	100.	410.	510.	418.	448.	71.	3193.	336.
*	2.130	2949.92	0.0	2951.36	241.	0.	0.	336.	400.	0.	3071.	529.
*	2.130	2949.74	-0.18	2952.22	58.	65.	335.	400.	336.	0.	3600.	0.

SUMMARY OF ERRORS

CAUTION SECNO= 0.080 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.280 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.280 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.280 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.280 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.280 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.280 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.370 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.370 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.510 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.510 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.510 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.510 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.530 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.530 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.530 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.530 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.530 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.530 PROFILE= 2

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.690 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.690 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.690 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.690 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.690 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.690 PROFILE= 2

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.720 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.720 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.720 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.720 PROFILE= 2

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.840 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.840 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.900 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.980 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.320 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.320 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.320 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.320 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.320 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.320 PROFILE= 2

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.440 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.530 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.530 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.530 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.530 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.640 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.640 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.660 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.660 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.660 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.660 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.780 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.780 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.780 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.780 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.780 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.780 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.940 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.940 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.940 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.940 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.940 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.940 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.980 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.980 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.980 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.980 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.980 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.980 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 2.130 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 2.130 PROFILE= 1
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 2.130 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 2.130 PROFILE= 2 CRITICAL DEPTH ASSUMED

D05

 FLOODWAY DATA, ALLEN CREEK
 PROFILE NO. 2

STATION	WIDTH (FT)	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
0.020	90.	463.	8.0	2742.7	2741.7	1.0
0.080	40.	280.	13.2	2746.8	2746.2	0.6
0.160	85.	264.	14.0	2754.4	2754.4	0.0
0.160	85.	338.	10.9	2755.8	2755.8	0.0
0.160	85.	314.	11.8	2755.7	2755.7	0.0
0.160	85.	366.	10.1	2756.8	2756.8	0.0
0.160	85.	475.	7.8	2757.6	2757.6	0.0
0.160	85.	482.	7.7	2757.8	2757.8	0.0
0.280	110.	429.	8.6	2767.4	2767.3	0.1
0.280	110.	261.	14.2	2768.0	2768.0	0.0
0.280	110.	364.	10.2	2770.1	2766.7	3.4
0.280	110.	370.	10.0	2770.3	2769.7	0.6
0.370	120.	281.	13.2	2777.5	2777.5	0.0
0.510	350.	759.	4.9	2791.4	2790.4	1.0
0.530	370.	787.	4.7	2794.1	2793.1	1.0
0.530	370.	1123.	3.3	2795.0	2794.0	1.0
0.530	370.	1129.	3.3	2795.0	2794.0	1.0
0.530	370.	970.	3.8	2795.0	2794.0	1.0
0.690	140.	402.	9.2	2809.6	2809.6	0.0
0.720	140.	494.	7.5	2811.5	2811.1	0.4
0.720	140.	454.	8.1	2812.4	2812.4	0.0
0.720	140.	660.	5.6	2813.5	2812.6	0.9
0.720	140.	754.	4.9	2813.4	2812.5	0.9
0.720	140.	762.	4.9	2813.4	2812.6	0.8
0.760	140.	660.	5.6	2814.2	2813.3	0.9
0.840	150.	416.	8.9	2819.4	2819.4	0.0
0.840	150.	653.	5.7	2820.4	2819.5	0.9
0.840	150.	668.	5.5	2820.5	2819.8	0.7
0.900	100.	346.	10.7	2822.5	2822.5	0.0
0.980	65.	317.	11.5	2829.2	2828.4	0.8
1.050	65.	292.	12.5	2836.7	2836.7	0.0
1.120	80.	535.	6.8	2844.4	2844.0	0.4
1.320	70.	269.	13.6	2863.0	2863.0	0.0
1.440	95.	296.	12.3	2876.5	2876.5	0.0
1.440	95.	486.	7.5	2877.9	2876.7	1.2
1.440	95.	498.	7.3	2878.1	2877.0	1.1
1.530	70.	308.	11.8	2885.3	2885.3	0.0
1.640	125.	382.	9.6	2896.6	2896.1	0.5
1.660	245.	586.	6.2	2899.6	2899.4	0.2
1.660	245.	748.	4.9	2900.7	2900.2	0.5
1.660	245.	927.	3.9	2901.4	2900.6	0.8
1.660	245.	1009.	3.6	2901.3	2900.5	0.8
1.660	245.	1023.	3.6	2901.4	2900.6	0.8
1.780	260.	478.	7.6	2912.5	2912.2	0.3
1.780	260.	835.	4.4	2913.9	2913.3	0.6
1.780	260.	679.	5.4	2913.9	2913.5	0.4
1.780	260.	915.	4.0	2915.0	2913.9	1.1
1.780	260.	668.	5.5	2914.7	2913.8	0.9
1.780	260.	677.	5.4	2914.8	2913.8	1.0
1.940	110.	384.	9.4	2929.7	2929.7	0.0

FLOODWAY DATA, ALLEN CREEK
PROFILE NO. 2

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		
	WIDTH (FT)	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
1.940	110.	533.	6.8	2930.8	2929.9	0.9
1.940	110.	548.	6.6	2931.0	2930.4	0.6
1.980	100.	335.	10.7	2934.7	2934.7	0.0
1.980	100.	349.	10.3	2934.9	2934.8	0.1
1.980	100.	418.	8.6	2935.8	2935.1	0.7
2.130	65.	285.	12.6	2949.9	2949.9	0.0

..

A01

THIS RUN EXECUTED 08/01/81 8:22:15

 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53,54

T1	WAYNESVILLE NC	ALLENCK 10-10-80 GNC	5
T2	10 YEAR FLOOD	JCL KEY = HCDQ094	10
T3	ALLEN CREEK	FLOOD PROFILES	15

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	-10.	2.	0.	0.	0.01200	0.	0.0	0.	0.0	0.0	20

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	0.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	25

J3	VARIABLE CODES FOR SUMMARY PRINTOUT										
	150.00	0.0	160.00	201.00	0.0	0.0	0.0	0.0	0.0	0.0	30

*PROF 1

CCHV= 0.100 CEHV= 0.500

*SECNO .020

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
 3280 CROSS SECTION 0.02 EXTENDED 0.53 FEET

ALLEN CREEK		10 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		
0.02	1800.	0.	1465.	335.	0.72	0	203.	
2740.13	0.0	0.	195.	201.	0.50	0	2740.30	
5.63	0.0	0.0	7.50	1.67	0.0	2740.85	2738.80	
0.011971	0.0	0.100	0.055	0.120	0.0	-0.00	200.40	
	2734.50	0.	0.	0.	23.	180.	403.00	0.

*SECNO .080

3301 HV CHANGED MORE THAN HVINS

0.08	1800.	0.	1800.	0.	1.57	1	40.	
2744.22	0.0	0.	179.	0.	0.85	0	2750.00	
5.52	0.0	0.0	10.06	0.0	4.52	2745.80	2749.90	
0.022980	0.055	0.090	0.055	0.110	0.43	-0.00	60.00	
	2738.70	280.	280.	280.	20.	20.	100.00	2.

B01

*SECNO .160

0.16	1800.	0.	1800.	0.	2.04	2	34.
2751.20	0.0	0.	157.	0.	0.47	0	2752.30
7.20	0.0	0.0	11.46	0.0	7.22	2753.24	2757.80
0.014534	0.046	0.090	0.040	0.110	0.23	-0.00	547.07
	2744.00	400.	400.	400.	25.	8.	580.89
							3.

*SECNO .160

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.16	1800.	0.	1800.	0.	1.21	3	38.
2752.51	0.0	0.	204.	0.	-0.83	0	2752.30
8.51	0.0	0.01	8.84	0.0	0.40	2753.72	2757.80
0.007177	0.046	0.090	0.040	0.110	0.08	-0.00	544.59
	2744.00	40.	40.	40.	28.	11.	583.02
							4.

*SECNO .160

3265 DIVIDED FLOW

ALLEN CREEK		10 YEAR FLOOD			08/01/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST
							VOL

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2759.50 MAX ELLC= 2760.50

0.16	1800.	0.	1800.	0.	1.42	2	36.
2752.42	0.0	0.	188.	0.	0.21	0	2763.00
8.42	0.0	0.0	9.56	0.0	0.01	2753.84	2761.70
0.017554	0.046	0.090	0.040	0.110	0.10	-0.00	544.77
	2744.00	1.	1.	1.	3.	35.	583.45
							4.

*SECNO .160

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2759.50 MAX ELLC= 2760.50

0.16	1800.	0.	1800.	0.	1.04	3	39.
2753.27	0.0	0.	220.	0.	-0.38	0	2763.00
9.27	0.0	0.0	8.17	0.0	0.43	2754.31	2761.70
0.012158	0.045	0.090	0.040	0.110	0.04	-0.00	543.13
	2744.00	30.	30.	30.	5.	37.	584.80
							4.

*SECNO .160

0.16	1800.	4.	1796.	0.	0.85	2	50.
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C01

2753.48	0.0	6.	242.	0.	-0.18	0	2752.30	
9.48	0.0	0.76	7.43	0.0	0.01	2754.33	2757.80	
0.004341	0.045	0.090	0.040	0.110	0.02	-0.00	535.66	
	2744.00	1.	1.	1.	37.	13.	585.27	4.

*SECNO .160

*** GR CARDS REPEATED

0.16	1800.	6.	1794.	0.	0.83	0	50.	
2753.56	0.0	6.	245.	0.	-0.02	0	2752.30	
9.56	0.0	0.88	7.32	0.0	0.06	2754.39	2757.80	
0.007901	0.045	0.110	0.055	0.110	0.00	0.0	535.03	
	2744.00	10.	10.	10.	37.	13.	585.53	4.

*SECNO .280

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		10 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.28	1800.	0.	1620.	180.	1.75	16	71.	
2764.96	2764.96	0.	145.	69.	0.92	14	2769.00	
5.78	0.0	0.0	11.16	2.62	7.55	2766.71	2761.20	
0.019458	0.045	0.070	0.045	0.120	0.46	-0.00	765.09	
	2759.20	640.	640.	640.	12.	59.	836.53	7.

*SECNO .280

*** GR CARDS REPEATED

ALLEN CREEK

ALLEN CREEK		10 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2771.00 ELREA= 2771.00

0.28	1800.	0.	1800.	0.	1.74	2	37.	
2765.66	0.0	0.	170.	0.	-0.01	0	2769.00	
6.46	0.0	0.0	10.59	0.0	0.68	2767.40	2761.20	
0.075117	0.045	0.070	0.045	0.120	0.00	-0.00	763.36	
	2759.20	40.	40.	40.	14.	23.	800.00	7.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
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D01

1.26	1.60	3.00	0.0	28.80	0.01	300.00	0.0
ELCHU	ELCHD						
2759.20	2759.20						

*SECNO .280
 6110 EGLWC OF 2767.22 LESS THAN XEG OF 2767.40
 CLASS A LOW FLOW

3420 BRIDGE W.S.= 2765.65 BRIDGE VELOCITY=, 9.69
 CALCULATED CHANNEL AREA=, 186.

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
0.0	2767.22	0.01	0.	1800.	300.	299.	2769.60

ELTRD
2770.00

0.28	1800.	0.	1800.	0.	1.56	0	39.
2765.66	0.0	0.	179.	0.	-0.18	0	2771.70
6.46	0.0	0.0	10.03	0.0	0.0	2767.40	2772.70
0.014795	0.045	0.070	0.045	0.120	0.0	-0.00	764.35
	2759.20	30.	30.	30.	21.	18.	803.10

*SECNO .280

*** GR CARDS REPEATED

0.28	1800.	0.	1800.	0.	1.17	3	40.
2766.39	0.0	0.	208.	0.	-0.40	0	2771.70
7.19	0.0	0.0	8.67	0.0	0.12	2767.56	2772.70
0.009536	0.045	0.100	0.045	0.120	0.04	-0.00	764.07
	2759.20	10.	10.	10.	21.	19.	803.60

*SECNO .370

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		10 YEAR FLOOD			08/01/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST
							VOL

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.37	1800.	0.	1800.	0.	1.87	4	45.
2774.14	2774.14	0.	164.	0.	0.70	19	2777.20
5.14	0.0	0.0	10.96	0.0	5.54	2776.01	2777.50
0.020657	0.045	0.100	0.045	0.120	0.35	-0.00	694.21
	2769.00	410.	410.	410.	22.	22.	738.93

*SECNO .510

3265 DIVIDED FLOW

3280 CROSS SECTION 0.51 EXTENDED 1.37 FEET

E01

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		10 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.51	1800.	0.	1409.	391.	0.72	2	392.	
2789.37	2789.37	0.	184.	264.	-1.15	12	2789.70	
6.67	0.0	0.0	7.66	1.48	10.76	2790.09	2789.70	
0.011316	0.046	0.100	0.050	0.100	0.11	-0.00	660.70	
	2782.70	720.	720.	720.	19.	520.	1200.00	14.

*SECNO .530

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.53 EXTENDED 1.33 FEET

ALLEN CREEK		10 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.53	1800.	0.	1428.	372.	0.76	20	386.	
2792.13	2792.13	0.	182.	250.	0.04	5	2792.50	
6.63	0.0	0.0	7.83	1.49	0.75	2792.89	2792.50	
0.011916	0.046	0.100	0.050	0.100	0.02	-0.00	660.78	
	2785.50	65.	65.	65.	19.	520.	1200.00	15.

*SECNO .530

*** GR CARDS REPEATED

3280 CROSS SECTION 0.53 EXTENDED 2.16 FEET

3301 HV CHANGED MORE THAN HVINS

0.53	1800.	2.	1061.	737.	0.23	3	566.	
2792.96	0.0	6.	215.	621.	-0.53	0	2792.50	
7.46	0.0	0.35	4.92	1.19	0.25	2793.19	2792.50	
0.003892	0.046	0.100	0.050	0.100	0.05	-0.00	634.19	
	2785.50	40.	40.	40.	46.	520.	1200.00	16.

F01

F01

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	30.30	0.01	100.00	0.0
	ELCHU	ELCHD						
	2787.00	2787.00						

*SECNO .530

6870 D.S. ENERGY OF 2793.19 HIGHER THAN COMPUTED ENERGY OF 2793.11
 3280 CROSS SECTION 0.53 EXTENDED 2.17 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2801.01	2793.19	0.00	1567.	242.	100.	100.	2790.30

ELTRD
2790.80

0.53	1800.	2.	1059.	739.	0.23	?	566.	
2792.96	0.0	6.	216.	623.	-0.00	0	2792.50	
7.46	0.0	0.35	4.91	1.19	0.0	2793.19	2792.50	
0.003865	0.046	0.100	0.050	0.100	0.0	-0.00	633.88	
	2785.50	30.	30.	30.	46.	520.	1200.00	16.

*SECNO .530

3265 DIVIDED FLOW

3280 CROSS SECTION 0.53 EXTENDED 2.20 FEET

0.53	1800.	3.	1055.	742.	0.22	0	641.	
2793.01	0.0	7.	217.	611.	-0.00	0	2792.50	
7.51	0.0	0.35	4.86	1.21	0.04	2793.23	2792.50	
0.003755	0.046	0.100	0.050	0.100	0.00	0.0	199.97	
	2785.50	10.	10.	10.	480.	520.	1200.00	16.

*SECNO .690

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK

10 YEAR FLOOD

08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

0.69	1800.	0.	1800.	0.	2.10	20	37.
2805.87	2805.37	0.	155.	0.	1.88	19	2808.50

601

5.37	0.0	0.0	11.64	0.0	7.13	2807.97	2808.00	
0.026431	0.047	0.100	0.050	0.100	0.94	-0.00	261.00	
	2800.50	900.	900.	900.	20.	17.	304.38	27.

*SECNO .730

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		10 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		
0.73	1800.	0.	1799.	1.	1.07	2	54.	
2808.97	0.0	0.	216.	3.	-1.03	0	2810.00	
6.97	0.0	0.0	8.32	0.48	1.97	2810.05	2809.50	
0.009825	0.047	0.100	0.050	0.100	0.10	-0.00	267.00	
	2802.00	130.	130.	130.	20.	209.	495.87	27.

*SECNO .730

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX ELLC= 2808.70

0.73	1800.	0.	1800.	0.	1.92	3	28.	
2808.56	0.0	0.	162.	0.	0.85	0	2810.00	
7.06	0.0	0.0	11.12	0.0	0.02	2810.49	2810.00	
0.036477	0.047	0.100	0.050	0.100	0.42	-0.31	271.00	
	2801.50	1.	1.	1.	14.	14.	299.00	27.

*SECNO .730

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX ELLC= 2808.70

0.73	1800.	0.	1796.	4.	1.88	6	81.	
2809.47	2807.89	0.	163.	4.	-0.04	6	2810.00	
7.97	0.0	0.0	11.01	0.87	0.86	2811.35	2810.00	
0.051360	0.047	0.100	0.050	0.100	0.00	-27.84	271.00	
	2801.50	20.	20.	20.	14.	211.	495.69	27.

*SECNO .730

H01

3301 HV CHANGED MORE THAN HVINS

0.73	1800.	107.	1464.	229.	0.29	3	351.	
2811.22	0.0	135.	306.	261.	-1.59	0	2810.00	
9.22	0.0	0.79	4.79	0.88	0.01	2811.51	2809.50	
0.002158	0.047	0.100	0.050	0.100	0.16	-0.00	149.65	
	2802.00	1.	1.	1.	137.	214.	501.13	27.

*SECNO .730

*** GR CARDS REPEATED

0.73	1800.	111.	1453.	236.	0.28	2	353.	
2811.25	0.0	140.	307.	269.	-0.01	0	2810.00	
9.25	0.0	0.79	4.73	0.88	0.02	2811.54	2809.50	
0.002091	0.047	0.100	0.050	0.100	0.00	-0.00	148.26	
	2802.00	10.	10.	10.	139.	214.	501.23	27.

*SECNO .760

*** GR CARDS REPEATED

3265 DIVIDED FLOW

ALLEN CREEK		10 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CCRAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.76	1800.	21.	1714.	65.	0.62	1	246.	
2811.69	0.0	33.	265.	75.	0.34	0	2811.50	
8.19	0.0	0.63	6.48	0.87	0.61	2812.31	2811.00	
0.004800	0.047	0.090	0.050	0.090	0.17	-0.00	185.96	
	2803.50	200.	200.	200.	101.	212.	498.71	30.

*SECNO .840

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		10 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.84	1800.	0.	1800.	0.	2.01	8	39.	
2815.35	2815.35	0.	158.	0.	1.39	11	2818.00	
4.85	0.0	0.0	11.37	0.0	4.22	2817.36	2818.00	
0.027911	0.048	0.090	0.050	0.090	0.69	0.0	560.66	
	2810.50	440.	440.	440.	19.	20.	600.00	33.

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.84	1800.	0.	1800.	0.	2.01	8	39.	
2815.35	2815.35	0.	158.	0.	1.39	11	2818.00	
4.85	0.0	0.0	11.37	0.0	4.22	2817.36	2818.00	
0.027911	0.048	0.090	0.050	0.090	0.69	0.0	560.66	
	2810.50	440.	440.	440.	19.	20.	600.00	33.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	32.50	0.01	240.00	0.0
	ELCHU	ELCHD						
	2810.50	2810.50						

*SECNO .840

*** GR CARDS REPEATED

6840, FLOW IS BY WEIR AND LOW FLOW
 3420 BRIDGE W.S.= 2815.36 BRIDGE VELOCITY=, 11.38
 CALCULATED CHANNEL AREA=, 158.

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2818.00	2817.37	0.01	4.	1796.	240.	244.	2818.00

ELTRD
2817.00

*** NOTE: QWEIR IS GREATER THAN 0 AND ELEV IS LESS THAN ELTRD ***

0.84	1800.	0.	1800.	0.	1.83	5	39.
2815.54	0.0	0.	166.	0.	-0.18	0	2818.00
5.04	0.0	0.0	10.84	0.0	0.01	2817.37	2818.00
0.024086	0.048	0.090	0.050	0.090	0.0	-0.00	560.61
	2810.50	30.	30.	30.	19.	20.	600.00
							33.

*SECNO .840

*** GR CARDS REPEATED

0.84	1800.	0.	1800.	0.	1.34	3	40.
2816.27	0.0	0.	194.	0.	-0.49	0	2818.00
5.77	0.0	0.0	9.27	0.0	0.19	2817.61	2818.00
0.014902	0.048	0.090	0.050	0.090	0.05	-0.00	560.43
	2810.50	10.	10.	10.	20.	20.	600.00
							33.

*SECNO .900

*** GR CARDS REPEATED

0.90	1800.	0.	1800.	0.	1.17	3	40.
2819.81	0.0	0.	208.	0.	-0.17	0	2821.20
6.11	0.0	0.0	8.66	0.0	3.35	2820.97	2821.20
0.012102	0.048	0.090	0.050	0.090	0.02	-0.00	560.35
	2813.70	250.	250.	250.	20.	20.	600.00
							34.

*SECNO .980

ALLEN CREEK

10 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST
							VOL

0.98	1780.	0.	1780.	0.	1.54	3	47.
2826.47	0.0	0.	179.	0.	0.38	0	2828.50
5.07	0.0	0.0	9.97	0.0	6.86	2828.02	2829.50

J01

0.022057	0.048	0.090	0.050	0.090	0.19	-0.00	712.90	
	2821.40	430.	430.	430.	22.	26.	760.00	36.

*SECNO 1.050

*** GR CARDS REPEATED

1.05	1780.	0.	1780.	0.	1.33	4	48.	
2834.16	0.0	0.	193.	0.	-0.22	0	2835.90	
5.36	0.0	0.0	9.24	0.0	7.45	2835.49	2836.90	
0.017548	0.048	0.090	0.050	0.090	0.02	-0.00	712.33	
	2828.80	380.	380.	380.	22.	26.	760.00	37.

*SECNO 1.120

3301 HV CHANGED MORE THAN HVINS

1.12	1780.	0.	1780.	0.	0.48	5	73.	
2841.59	0.0	0.	320.	0.	-0.84	0	2843.50	
5.99	0.0	0.0	5.57	0.0	6.50	2842.07	2842.50	
0.005149	0.048	0.090	0.050	0.090	0.08	-0.00	825.94	
	2835.60	750.	750.	750.	35.	37.	898.49	42.

*SECNO 1.320

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		10 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.32	1780.	0.	1770.	10.	1.72	20	53.	
2860.07	2860.07	0.	168.	5.	1.24	11	2862.00	
4.07	0.0	0.0	10.56	2.14	10.03	2861.79	2864.00	
0.027503	0.049	0.080	0.050	0.090	0.62	0.0	693.00	
	2856.00	1000.	1000.	1000.	24.	302.	1018.14	47.

*SECNO 1.440

1.44	1780.	0.	1780.	0.	1.51	5	42.	
2873.31	0.0	0.	181.	0.	-0.21	0	2876.40	
5.71	0.0	0.0	9.85	0.0	13.00	2874.82	2875.70	
0.017520	0.049	0.070	0.050	0.090	0.02	-0.00	452.91	
	2867.60	600.	600.	600.	18.	24.	494.64	50.

SPECIAL BRIDGE

K01

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
1.25	1.60	3.00	0.0	37.70	0.01	275.00	0.0	
ELCHU	ELCHD							
2867.20	2867.20							

*SECNO 1.440

*** GR CARDS REPEATED

ALLEN CREEK		10 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

CLASS A LOW FLOW

3420 BRIDGE W.S.= 2873.31 BRIDGE VELOCITY=, 7.73
 CALCULATED CHANNEL AREA=, 230.

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2874.35	2874.82	0.00	0.	1780.	275.	279.	2874.60
ELTRD							
2875.90							

1.44	1780.	0.	1780.	0.	1.51	0	42.	
2873.31	0.0	0.	181.	0.	-0.00	0	2876.40	
5.71	0.0	0.0	9.85	0.0	0.00	2874.82	2875.70	
0.017494	0.049	0.070	0.050	0.090	0.0	-0.00	452.90	
	2867.60	30.	30.	30.	18.	24.	494.64	50.

*SECNO 1.440

1.44	1780.	0.	1780.	0.	1.23	3	43.	
2873.77	0.0	0.	200.	0.	-0.27	0	2876.40	
6.17	0.0	0.0	8.91	0.0	0.15	2875.00	2875.70	
0.013114	0.049	0.070	0.050	0.090	0.03	-0.00	451.90	
	2867.60	10.	10.	10.	16.	27.	494.89	50.

*SECNO 1.530

3265 DIVIDED FLOW

ALLEN CREEK		10 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.53	1780.	0.	1770.	10.	1.63	3	75.	
2882.73	2882.73	0.	173.	8.	0.39	12	2887.50	
5.13	0.0	0.0	10.26	1.19	8.47	2884.35	2882.50	
0.025016	0.049	0.110	0.050	0.120	0.20	-0.00	444.20	
	2877.60	480.	480.	480.	24.	625.	1093.36	52.

L01

*SECNO 1.640

1.64	1780.	0.	1780.	0.	1.57	4	38.	
2893.90	0.0	0.	177.	0.	-0.06	0	2897.10	
6.10	0.0	0.0	10.05	0.0	11.11	2895.46	2896.10	
0.017204	0.049	0.110	0.050	0.120	0.01	-0.00	208.94	
	2887.80	540.	540.	540.	19.	19.	246.93	54.

*SECNO 1.660

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		10 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	QLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.66	1780.	0.	1780.	0.	2.13	2	36.	
2896.41	2896.41	0.	152.	0.	0.56	12	2900.30	
5.41	0.0	0.0	11.71	0.0	2.12	2898.54	2899.30	
0.026702	0.049	0.110	0.050	0.120	0.28	-0.00	209.78	
	2891.00	100.	100.	100.	18.	18.	245.99	55.

*SECNO 1.660

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		10 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	QLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

33.0 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2899.50 MAX ELLC= 2899.20

1.66	1780.	0.	1778.	2.	1.27	6	77.	
2897.38	2895.95	0.	197.	6.	-0.86	19	2900.70	
6.88	0.0	0.0	9.04	0.37	0.02	2898.64	2900.60	
0.011951	0.049	0.110	0.050	0.120	0.09	-0.00	211.54	
	2890.50	1.	1.	1.	17.	343.	571.85	55.

*SECNO 1.660

*** GR CARDS REPEATED

3265 DIVIDED FLOW

M01

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2899.50 MAX ELLC= 2899.20

1.66	1780.	0.	1649.	131.	0.77	6	325.
2898.21	2895.95	0.	225.	159.	-0.50	19	2900.70
7.71	0.0	0.0	7.33	0.83	0.29	2898.99	2900.60
0.00E219	0.049	0.110	0.050	0.120	0.05	-0.69	211.29
	2890.50	30.	30.	30.	17.	376.	604.69
							55.

*SECNO 1.660

3265 DIVIDED FLOW

1.66	1780.	0.	1651.	129.	0.80	2	332.
2898.21	2896.40	0.	222.	160.	0.03	12	2900.30
7.21	0.0	0.0	7.45	0.81	0.01	2899.01	2899.30
0.007835	0.049	0.110	0.050	0.120	0.01	-0.00	207.56
	2891.00	1.	1.	1.	20.	377.	604.81
							55.

*SECNO 1.660

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 1.66 EXTENDED 0.16 FEET

1.66	1780.	0.	1573.	207.	0.63	4	424.
2898.45	2896.43	0.	232.	246.	-0.17	15	2900.30
7.46	0.0	0.0	6.78	0.84	0.07	2899.10	2899.30
0.006271	0.049	0.110	0.050	0.120	0.02	-0.00	207.26
	2891.00	10.	10.	10.	20.	447.	674.00
							55.

*SECNO 1.780

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK

10 YEAR FLOOD

08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST
							VOL

3685 20 TRIALS ATTEMPTED WSEL, CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.78	1780.	0.	1780.	0.	2.03	20	39.
2909.04	2909.04	0.	156.	0.	1.40	14	2914.00
5.14	0.0	0.0	11.44	0.0	6.89	2911.07	2912.50
0.027509	0.049	0.110	0.050	0.120	0.70	-0.00	458.20
	2903.50	600.	600.	600.	14.	24.	496.90
							59.

*SECNO 1.780

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		10 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XML	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		
1.78	1780.	0.	1648.	132.	0.66	3	210.	
2911.05	0.0	0.	243.	136.	-1.37	0	2914.00	
7.15	0.0	0.0	6.77	0.98	0.50	2911.71	2912.50	
0.007152	0.049	0.110	0.050	0.120	0.14	-0.00	450.85	
	2903.90	40.	40.	40.	22.	358.	830.29	60.

*SECNO 1.780

3265 DIVIDED FLOW

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2912.50 MAX ELLC= 2912.00

1.78	1780.	0.	1605.	175.	0.93	4	185.	
2910.92	2909.45	0.	197.	117.	0.27	18	2912.00	
7.02	0.0	0.0	8.14	1.49	0.01	2911.85	2912.50	
0.018251	0.049	0.110	0.050	0.120	0.14	-0.00	462.43	
	2903.90	1.	1.	1.	23.	339.	823.80	60.

*SECNO 1.780

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2912.50 MAX ELLC= 2912.00

1.78	1780.	0.	1358.	422.	0.42	3	302.	
2911.85	0.0	0.	230.	300.	-0.51	0	2912.00	
7.95	0.0	0.0	5.90	1.41	0.37	2912.27	2912.50	
0.008795	0.049	0.110	0.050	0.120	0.05	-0.00	462.06	
	2903.90	30.	30.	30.	23.	390.	875.04	60.

*SECNO 1.780

3265 DIVIDED FLOW

1.78	1780.	34.	1441.	305.	0.39	2	284.	
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B02

2911.89	0.0	28.	260.	305.	-0.03	0	2908.00	
8.19	0.0	1.22	5.53	1.00	0.01	2912.28	2912.50	
0.004212	0.049	0.120	0.055	0.120	0.00	-0.00	447.73	
	2903.70	1.	1.	1.	36.	394.	877.46	60.

*SECNO 1.780

3265 DIVIDED FLOW

1.78	1780.	35.	1426.	319.	0.37	0	288.	
2911.95	0.0	29.	263.	320.	-0.02	0	2908.00	
8.25	0.0	1.21	5.42	1.00	0.04	2912.32	2912.50	
0.004023	0.049	0.120	0.055	0.120	0.00	-0.00	447.49	
	2903.70	10.	10.	10.	36.	398.	881.03	60.

*SECNO 1.940

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK

10 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.94	1750.	0.	1750.	0.	2.12	20	38.	
2926.58	2926.58	0.	150.	0.	1.75	11	2928.40	
4.38	0.0	0.0	11.68	0.0	6.89	2928.69	2928.50	
0.037787	0.049	0.120	0.055	0.120	0.87	0.0	609.52	
	2922.20	760.	760.	760.	19.	18.	647.49	67.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2926.46 ,NOT 2926.58
 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	37.20	0.01	137.50	0.0
ELCHU	ELCHD							
2922.50	2922.50							

*SECNO 1.940

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

C02

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2930.60	2928.69	0.0	430.	1314.	138.	138.	2926.20
ELTRD							
2926.90							

1.94	1750.	0.	1725.	25.	1.28	4	77.
2927.56	0.0	0.	188.	21.	-0.83	0	2928.40
5.36	0.0	0.0	9.16	1.22	0.15	2928.85	2928.50
0.018622	0.049	0.120	0.055	0.120	0.0	-0.00	608.70
	2922.20	30.	30.	30.	20.	70.	698.75
							67.

*SECNO 1.940

3265 DIVIDED FLOW

1.94	1750.	0.	1695.	55.	1.01	2	88.
2928.02	0.0	0.	207.	40.	-0.28	0	2928.40
5.82	0.0	0.0	8.18	1.38	0.16	2929.03	2928.50
0.013570	0.049	0.120	0.055	0.120	0.03	-0.00	608.31
	2922.20	10.	10.	10.	21.	74.	702.78
							67.

*SECNO 1.980

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		10 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.98	1750.	0.	1750.	0.	2.70	2	25.
2931.03	2931.03	0.	133.	0.	1.70	8	2931.50
6.63	0.0	0.0	13.20	0.0	3.82	2933.73	2932.00
0.037739	0.049	0.120	0.055	0.120	0.85	0.0	418.00
	2924.40	180.	180.	180.	15.	10.	442.77
							68.

SPECIAL BRIDGE

SB	HK	XKOR	COFG	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.40	0.01	165.00	0.0
	ELCHU	ELCHD						
	2924.40	2924.40						

*SECNO 1.980

6870 D.S. ENERGY OF 2933.73 HIGHER THAN COMPUTED ENERGY OF 2933.07

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2933.07	2932.88	0.01	258.	1494.	165.	167.	2932.20

D02

ELTRD
2931.70

*** NOTE: QWEIR IS GREATER THAN 0 AND ELEV IS LESS THAN ELTRD ***

1.98	1750.	0.	1750.	0.	2.53	4	25.	
2931.21	0.0	0.	137.	0.	-0.18	0	2931.50	
6.81	0.0	0.0	12.75	0.0	0.0	2933.73	2932.00	
0.034214	0.049	0.120	0.055	0.120	0.0	-0.00	418.00	
	2924.40	30.	30.	30.	15.	10.	442.89	68.

*SECNO 1.980

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		10 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
1.98	1750.	3.	1666.	81.	1.21	8	115.	
2932.87	2931.01	3.	184.	61.	-1.31	9	2931.50	
8.47	0.0	1.10	9.05	1.32	0.21	2934.08	2932.00	
0.014248	0.049	0.120	0.055	0.120	0.13	-0.00	414.11	
	2924.40	10.	10.	10.	19.	139.	571.83	68.

*SECNO 2.130

3265 DIVIDED FLOW

ALLEN CREEK		10 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.13	1750.	0.	1750.	0.	1.69	3	60.	
2947.57	2947.57	0.	168.	1.	0.48	11	2951.20	
4.57	0.0	0.0	10.44	0.35	14.55	2949.26	2951.00	
0.025475	0.049	0.080	0.050	0.120	0.24	-0.00	344.76	
	2943.00	780.	780.	780.	23.	293.	660.91	72.

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.13	1750.	0.	1750.	0.	1.69	3	60.	
2947.57	2947.57	0.	168.	1.	0.48	11	2951.20	
4.57	0.0	0.0	10.44	0.35	14.55	2949.26	2951.00	
0.025475	0.049	0.080	0.050	0.120	0.24	-0.00	344.76	
	2943.00	780.	780.	780.	23.	293.	660.91	72.

THIS RUN EXECUTED 08/01/81 8:22:31

 HEC2 RELEASE DATED NOV 76 UPDATED JULY 1979
 ERROR CORR - 01,02,03
 MODIFICATION - 50,51,52,53,54

T1	WAYNESVILLE NC	1705
T2	50 YEAR FLOOD	1710
T3	ALLEN CREEK	1715

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FR	
	0.	3.	0.	0.	0.01200	0.	0.0	0.	0.0	0.0	1720

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	2.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	1725

F02

*PROF 2

CCHV= 0.100 CEHV= 0.500

*SECNO .020

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3280 CROSS SECTION 0.02 EXTENDED 1.59 FEET

ALLEN CREEK		50 YEAR FLOOD			08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	
0.02	3000.	1.	2117.	883.	0.84	0	204.		
2741.19	0.0	1.	245.	367.	0.50	0	2740.30		
6.69	0.0	0.85	8.63	2.40	0.0	2742.04	2738.80		
0.011817	0.0	0.100	0.055	0.120	0.0	-0.00	198.51		
	2734.50	0.	0.	0.	25.	180.	403.00	0.	

*SECNO .080

3301 HV CHANGED MORE THAN HVINS

0.08	3000.	0.	3000.	0.	2.79	4	40.		
2745.35	2745.31	0.	224.	0.	1.95	5	2750.00		
6.65	0.0	0.0	13.41	0.0	5.13	2748.15	2749.90		
0.032229	0.055	0.090	0.055	0.110	0.97	-0.00	60.00		
	2738.70	280.	280.	280.	20.	20.	100.00	3.	

*SECNO .160

0.16	3000.	1.	2999.	0.	2.47	3	42.		
2753.38	0.0	1.	238.	0.	-0.32	0	2752.30		
9.38	0.0	1.14	12.62	0.0	7.67	2755.85	2757.80		
0.012707	0.046	0.090	0.040	0.110	0.03	-0.00	542.89		
	2744.00	400.	400.	400.	30.	12.	584.95	5.	

*SECNO .160

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.16	3000.	8.	2992.	0.	1.62	3	49.		
2754.69	0.0	6.	293.	0.	-0.85	0	2752.30		
10.69	0.0	1.45	10.22	0.0	0.37	2756.31	2757.80		
0.007137	0.046	0.090	0.040	0.110	0.09	-0.00	540.31		
	2744.00	40.	40.	40.	32.	17.	589.16	5.	

*SECNO .160

3265 DIVIDED FLOW

ALLEN CREEK

50 YEAR FLOOD

08/01/81

602

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2759.50 MAX ELLC= 2760.50

0.16	3000.	0.	3000.	0.	1.84	2	45.		
2754.59	0.0	0.	275.	0.	0.23	0	2763.00		
10.59	0.0	0.0	10.89	0.0	0.01	2756.43	2761.70		
0.020768	0.046	0.090	0.040	0.110	0.11	-0.00	540.60		
	2744.00	1.	1.	1.	7.	41.	589.27	5.	

*SECNO .160

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2759.50 MAX ELLC= 2760.50

0.16	3000.	0.	3000.	0.	1.30	3	51.		
2755.70	0.0	0.	328.	0.	-0.55	0	2763.00		
11.70	0.0	0.0	9.14	0.0	0.51	2756.99	2761.70		
0.014012	0.045	0.090	0.040	0.110	0.05	-0.00	538.47		
	2744.00	30.	30.	30.	10.	45.	592.58	5.	

*SECNO .160

3265 DIVIDED FLOW

0.16	3000.	86.	2904.	10.	1.01	2	190.		
2756.02	0.0	55.	354.	29.	-0.28	0	2752.30		
12.02	0.0	1.57	8.20	0.35	0.01	2757.03	2757.80		
0.003797	0.045	0.090	0.040	0.110	0.03	-0.00	515.65		
	2744.00	1.	1.	1.	57.	266.	838.79	5.	

*SECNO .160

*** GF CARDS REPEATED

3265 DIVIDED FLOW

0.16	3000.	101.	2875.	23.	0.95	2	218.		
2756.14	0.0	58.	360.	44.	-0.06	0	2752.30		
12.14	0.0	1.75	7.99	0.53	0.05	2757.09	2757.80		
0.007088	0.045	0.110	0.055	0.110	0.01	-0.00	514.72		
	2744.00	10.	10.	10.	58.	275.	847.66	5.	

*SECNO .280

0.0 2769.59 0.01 0. 3000. 300. 299. 2769.60

ELTRD
2770.00

0.28	3000.	0.	3000.	0.	2.55	0	40.	
2767.04	0.0	0.	234.	0.	-0.27	0	2771.70	
7.84	0.0	0.0	12.82	0.0	0.0	2769.85	2772.70	
0.018556	0.045	0.070	0.045	0.120	0.0	-0.00	763.81	
	2759.20	30.	30.	30.	21.	19.	804.06	12.

*SECNO .280

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.28	3000.	0.	3000.	0.	1.66	5	42.	
2768.41	0.0	0.	290.	0.	-0.89	0	2771.70	
9.21	0.0	0.0	10.34	0.0	0.13	2770.07	2772.70	
0.009841	0.045	0.100	0.045	0.120	0.09	-0.00	763.28	
	2759.20	10.	10.	10.	22.	20.	805.02	12.

*SECNO .370

3265 DIVIDED FLOW

3280 CROSS SECTION 0.37 EXTENDED 0.58 FEET

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.37	3000.	1.	2909.	90.	1.63	2	238.	
2776.48	2776.48	2.	279.	93.	-0.03	11	2777.20	
7.48	0.0	0.33	10.41	0.97	4.43	2778.11	2777.50	
0.011903	0.045	0.100	0.045	0.120	0.00	-0.00	602.69	
	2769.00	410.	410.	410.	114.	567.	1283.00	15.

*SECNO .510

3280 CROSS SECTION 0.51 EXTENDED 2.12 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT

J02

SLOPE	WTN ELMIN	XNL XLOBL	XNCH XLCH	XNR XLOBR	OLOSS WSDL	CORAR WSDR	SSTA ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.51	3000.	3.	1798.	1199.	0.68	13	563.	
2790.12	2790.12	5.	214.	598.	-0.95	6	2789.70	
7.42	0.0	0.56	8.41	2.01	8.42	2790.80	2789.70	
0.01495	0.046	0.100	0.050	0.100	0.09	0.0	636.69	
	2782.70	720.	720.	720.	43.	520.	1200.00	25.

*SECNO .530

*** GR CARDS REPEATED

3280 CROSS SECTION 0.53 EXTENDED 2.01 FEET

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL, CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

0.53	3000.	1.	1870.	1129.	0.80	20	557.	
2792.81	2792.81	3.	209.	544.	0.11	5	2792.50	
7.31	0.0	0.50	8.93	2.07	0.80	2793.60	2792.50	
0.013306	0.046	0.100	0.050	0.100	0.06	0.0	642.76	
	2785.50	65.	65.	65.	37.	520.	1200.00	26.

*SECNO .530

*** GR CARDS REPEATED

3280 CROSS SECTION 0.53 EXTENDED 2.90 FEET

3301 HV CHANGED MORE THAN HVINS

0.53	3000.	140.	1333.	1528.	0.22	3	1009.	
2793.71	0.0	215.	245.	993.	-0.57	0	2792.50	
8.21	0.0	0.65	5.43	1.54	0.27	2793.93	2792.50	
0.003991	0.046	0.100	0.050	0.100	0.06	-0.00	191.30	
	2785.50	40.	40.	40.	489.	520.	1200.00	27.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2793.50, NOT 2793.71
 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	30.30	0.01	100.00	0.0
	ELCHU	ELCHD						

K02

2787.00 2787.00

*SECNO .530

6870 D.S. ENERGY OF 2793.93 HIGHER THAN COMPUTED ENERGY OF 2793.85

3280 CROSS SECTION 0.53 EXTENDED 2.91 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2816.07	2794.16	0.0	2790.	239.	100.	100.	2790.30

ELTRD
2790.80

0.53	3000.	141.	1330.	1529.	0.22	2	1009.	
2793.71	0.0	217.	245.	995.	-0.00	0	2792.50	
8.21	0.0	0.65	5.42	1.54	0.0	2793.93	2792.50	
0.003966	0.046	0.100	0.050	0.100	0.0	-0.00	191.24	
	2785.50	30.	30.	30.	489.	520.	1200.00	28.

*SECNO .530

3265 DIVIDED FLOW

3280 CROSS SECTION 0.53 EXTENDED 2.95 FEET

0.53	3000.	157.	1348.	1495.	0.23	0	949.	
2793.74	0.0	234.	247.	939.	0.01	0	2792.50	
8.24	0.0	0.67	5.46	1.59	0.04	2793.97	2792.50	
0.003990	0.046	0.100	0.050	0.100	0.00	-0.00	190.78	
	2785.50	10.	10.	10.	489.	520.	1200.00	28.

*SECNO .690

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.69	3000.	72.	2762.	166.	1.42	20	285.	
2809.00	2809.00	61.	277.	116.	1.19	8	2808.50	
8.50	0.0	1.18	9.96	1.43	5.53	2810.42	2808.00	
0.010658	0.047	0.100	0.050	0.100	0.60	-0.00	174.76	
	2800.50	900.	900.	900.	112.	212.	499.46	48.

*SECNO .730

*** GR CARDS REPEATED

3265 DIVIDED FLOW

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.73	3000.	72.	2762.	166.	1.42	0	285.	
2810.50	2810.50	61.	277.	116.	-0.00	5	2810.00	
8.50	0.0	1.18	9.96	1.44	1.38	2811.92	2809.50	
0.010642	0.047	0.100	0.050	0.100	0.00	-0.00	174.69	
	2802.00	130.	130.	130.	112.	212.	499.46	49.

*SECNO .730

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX ELLC= 2808.70

0.73	3000.	546.	1305.	1149.	0.33	9	369.	
2811.71	2811.11	206.	211.	382.	-1.09	9	2810.00	
10.21	0.0	2.65	6.18	3.01	0.01	2812.05	2810.00	
0.017289	0.047	0.100	0.050	0.100	0.11	-55.42	132.27	
	2801.50	1.	1.	1.	153.	216.	501.49	49.

*SECNO .730

*** GR CARDS REPEATED

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX ELLC= 2808.70

0.73	3000.	619.	1129.	1252.	0.22	2	384.	
2812.11	0.0	264.	222.	463.	-0.12	0	2810.00	
10.61	0.0	2.34	5.08	2.70	0.27	2812.33	2810.00	
0.010880	0.047	0.100	0.050	0.100	0.01	-55.42	118.14	
	2801.50	20.	20.	20.	167.	218.	502.53	49.

*SECNO .730

0.73	3000.	296.	2114.	590.	0.44	2	381.	
2812.01	0.0	239.	337.	415.	0.22	0	2810.00	
10.01	0.0	1.24	6.26	1.42	0.01	2812.44	2809.50	
0.003243	0.047	0.100	0.050	0.100	0.11	-0.00	121.87	
	2802.00	1.	1.	1.	165.	216.	502.99	49.

*SECNO .730

MO2

*** GR CARDS REPEATED

0.73	3000.	305.	2091.	604.	0.42	1	383.	
2812.06	0.0	248.	340.	427.	-0.02	0	2810.00	
10.06	0.0	1.23	6.15	1.41	0.03	2812.48	2809.50	
0.003096	0.047	0.100	0.050	0.100	0.00	-0.00	119.67	
	2802.00	10.	10.	10.	167.	216.	503.13	50.

*SECNO .760

*** GR CARDS REPEATED

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.76	3000.	192.	2397.	411.	0.77	1	351.	
2812.71	0.0	134.	305.	258.	0.35	0	2811.50	
9.2	0.0	1.43	7.85	1.59	0.83	2813.48	2811.00	
0.005825	0.047	0.090	0.050	0.090	0.18	-0.00	150.17	
	2803.50	200.	200.	200.	137.	214.	501.10	54.

*SECNO .840

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.84	3000.	0.	3000.	0.	2.88	5	40.	
2816.92	2816.92	0.	220.	0.	2.11	12	2818.00	
6.42	0.0	0.0	13.62	0.0	4.85	2819.80	2818.00	
0.028183	0.048	0.090	0.050	0.090	1.05	0.0	560.27	
	2810.50	440.	440.	440.	20.	20.	600.00	58.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2816.71 ,NOT 2816.92
 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	32.50	0.01	240.00	0.0
	ELCHU	ELCHD						
	2810.50	2810.50						

*SECNO .840

*** GR CARDS REPEATED

6870 D.S. ENERGY OF 2819.80 HIGHER THAN COMPUTED ENERGY OF 2819.28

A03

PRESSURE AND WEIR FLOW

EGPRS 2819.28	EGLWC 2819.12	H3 0.01	QWEIR 652.	QPR 2341.	BAREA 240.	TAREA 244.	ELLC 2818.00
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ELTRD
2817.00

*** NOTE: QWEIR IS GREATER THAN 0 AND ELEV IS LESS THAN ELTRD ***

0.84	3000.	0.	3000.	0.	2.98	5	40.	
2816.82	0.0	0.	216.	0.	0.10	0	2818.00	
6.32	0.0	0.0	13.86	0.0	0.0	2819.80	2818.00	
0.029695	0.048	0.090	0.050	0.090	0.0	-0.00	560.29	
	2810.50	30.	30.	30.	20.	20.	600.00	58.

*SECNO .840

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.84	3000.	271.	2527.	202.	0.85	10	321.	
2819.29	0.0	170.	315.	150.	-2.13	0	2818.00	
8.79	0.0	1.60	8.03	1.35	0.12	2820.13	2818.00	
0.006457	0.048	0.090	0.050	0.090	0.21	-0.00	428.65	
	2810.50	10.	10.	10.	151.	170.	750.00	58.

*SECNO .900

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.90	3000.	64.	2927.	9.	1.75	3	211.	
2821.42	2821.42	48.	272.	13.	0.90	8	2821.20	
7.72	0.0	1.34	10.75	0.65	2.29	2823.17	2821.20	
0.014035	0.048	0.090	0.050	0.090	0.45	-0.00	461.78	
	2813.70	250.	250.	250.	118.	170.	750.00	61.

*SECNO .980

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	

B03

DEPTH SLOPE	WSELK WTN ELMIN	VLOB XNL XLOBL	VCH XNCH XLCH	VROB XNR XLOBR	HL OLOSS WSDL	EG CORAR WSDR	LEFT/RIGHT SSTA ENDST	VOL
0.98	2940.	0.	2940.	0.	1.92	3	50.	
2828.23	0.0	0.	265.	0.	0.16	0	2828.50	
6.83	0.0	0.0	11.11	0.0	6.89	2830.15	2829.50	
0.018544	0.048	0.090	0.050	0.090	0.08	-0.00	709.51	
	2821.40	430.	430.	430.	25.	26.	760.00	64.

*SECNO 1.050

*** GR CARDS REPEATED

1.05	2940.	0.	2940.	0.	2.02	4	50.	
2835.50	0.0	0.	258.	0.	0.10	0	2835.90	
6.70	0.0	0.0	11.40	0.0	7.32	2837.52	2836.90	
0.020007	0.048	0.090	0.050	0.090	0.05	-0.00	709.77	
	2828.80	380.	380.	380.	25.	26.	760.00	66.

*SECNO 1.120

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

1.12	2940.	5.	2920.	15.	0.63	4	237.	
2843.40	0.0	13.	456.	27.	-1.39	0	2843.50	
7.80	0.0	0.39	6.40	0.54	6.37	2844.03	2842.50	
0.004676	0.048	0.090	0.050	0.090	0.14	-0.00	742.79	
	2835.60	750.	750.	750.	118.	336.	1197.04	73.

*SECNO 1.320

3265 DIVIDED FLOW

3280 CROSS SECTION 1.32 EXTENDED 0.98 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN ELMIN	XNL XLOBL	XNCH XLCH	XNR XLOBR	OLOSS WSDL	CORAR WSDR	SSTA ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.32	2940.	23.	2616.	302.	1.33	20	274.	
2862.18	2862.18	15.	267.	161.	0.70	15	2862.00	
6.18	0.0	1.54	9.81	1.88	7.53	2863.51	2864.00	
0.014092	0.049	0.080	0.050	0.090	0.35	-0.00	494.44	
	2856.00	1000.	1000.	1000.	222.	536.	1252.00	84.

C03

*SECNO 1.440

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.44	2940.	0.	2940.	0.	2.64	4	45.	
2874.35	2874.35	0.	225.	0.	1.31	8	2876.40	
6.75	0.0	0.0	13.04	0.0	11.10	2876.99	2875.70	
0.025367	0.049	0.070	0.050	0.090	0.65	-0.00	450.59	
	2867.60	600.	600.	600.	20.	24.	495.23	88.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	37.70	0.01	275.00	0.0
	ELCHU	ELCHD						
	2867.20	2867.20						

*SECNO 1.440

*** GR CARDS REPEATED

6870 D.S. ENERGY OF 2876.99 HIGHER THAN COMPUTED ENERGY OF 2876.02

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
1.44	2940.	0.	2940.	0.	2.72	12	44.	
2874.27	0.0	0.	222.	0.	0.08	0	2876.40	
6.67	0.0	0.0	13.23	0.0	0.0	2876.99	2875.70	
0.026411	0.049	0.070	0.050	0.090	0.0	-0.00	450.75	
	2867.60	30.	30.	30.	20.	24.	495.19	88.

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2877.19	2876.99	0.01	697.	2256.	275.	279.	2874.60
ELTRD							
2875.90							

*** NOTE: QWEIR IS GREATER THAN 0 AND ELEV IS LESS THAN ELTRD ***

1.44	2940.	0.	2940.	0.	2.72	12	44.	
2874.27	0.0	0.	222.	0.	0.08	0	2876.40	
6.67	0.0	0.0	13.23	0.0	0.0	2876.99	2875.70	
0.026411	0.049	0.070	0.050	0.090	0.0	-0.00	450.75	
	2867.60	30.	30.	30.	20.	24.	495.19	88.

*SECNO 1.440

D03

3265 DIVIDED FLOW

3280 CROSS SECTION 1.44 EXTENDED 1.95 FEET

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

1.44	2940.	111.	2012.	817.	0.35	31	617.	
2876.95	2874.43	105.	354.	601.	-2.36	5	2876.40	
9.35	0.0	1.05	5.69	1.36	0.08	2877.30	2875.70	
0.003588	0.049	0.070	0.050	0.090	0.24	-0.00	262.08	
	2867.60	10.	10.	10.	206.	532.	1000.00	89.

*SECNO 1.530

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.53	2940.	0.	2525.	415.	1.16	20	389.	
2884.65	2884.65	0.	271.	292.	0.81	15	2887.50	
7.05	0.0	0.0	9.32	1.42	2.87	2885.81	2882.50	
0.011911	0.049	0.110	0.050	0.120	0.40	-0.00	443.32	
	2877.60	480.	480.	480.	25.	657.	1125.50	98.

*SECNO 1.640

3265 DIVIDED FLOW

3280 CROSS SECTION 1.64 EXTENDED 0.82 FEET

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.64	2940.	0.	2211.	729.	0.85	9	458.	
2895.92	2895.92	0.	260.	509.	-0.31	9	2897.10	
8.12	0.0	0.0	8.51	1.43	5.56	2896.78	2896.10	
0.008994	0.049	0.110	0.050	0.120	0.03	-0.00	206.44	

E03

2887.80 540. 540. 540. 21. 447. 674.00 106.

*SECNO 1.660

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 1.66 EXTENDED 0.76 FEET

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.66	2940.	0.	2245.	695.	0.91	20	455.	
2899.06	2899.06	0.	257.	484.	0.06	6	2900.30	
8.06	0.0	0.0	8.73	1.43	0.93	2899.97	2899.30	
0.009531	0.049	0.110	0.050	0.120	0.03	-0.00	206.52	
	2891.00	100.	100.	100.	21.	447.	674.00	108.

*SECNO 1.660

3265 DIVIDED FLOW

3280 CROSS SECTION 1.66 EXTENDED 1.40 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2899.50 MAX ELLC= 2899.20								
1.66	2940.	0.	1502.	1438.	0.34	9	439.	
2899.70	0.0	0.	239.	728.	-0.57	0	2900.70	
9.20	0.0	0.0	6.28	1.98	0.01	2900.04	2900.60	
0.010910	0.049	0.110	0.050	0.120	0.06	-38.26	211.00	
	2890.50	1.	1.	1.	18.	446.	674.00	108.

*SECNO 1.660

*** GR CARDS REPEATED

E03

F03

3265 DIVIDED FLOW

3280 CROSS SECTION 1.66 EXTENDED 1.86 FEET

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2899.50 MAX ELLC= 2899.20

1.66	2940.	0.	1180.	1760.	0.18	2	449.	
2900.15	0.0	0.	244.	916.	-0.16	0	2900.70	
9.65	0.0	0.0	4.84	1.92	0.28	2900.33	2900.60	
0.007877	0.049	0.110	0.050	0.120	0.02	-49.59	211.00	
	2890.50	30.	30.	30.	18.	446.	674.00	108.

*SECNO 1.660

3280 CROSS SECTION 1.66 EXTENDED 1.78 FEET

1.66	2940.	0.	1770.	1170.	0.33	2	469.	
2900.08	0.0	0.	302.	915.	0.15	0	2900.30	
9.08	0.0	0.0	5.86	1.28	0.01	2900.41	2899.30	
0.003658	0.049	0.110	0.050	0.120	0.08	-0.00	205.27	
	2891.00	1.	1.	1.	22.	447.	674.00	108.

*SECNO 1.660

*** GR CARDS REPEATED

3280 CROSS SECTION 1.66 EXTENDED 1.84 FEET

1.66	2940.	0.	1749.	1191.	0.31	0	469.	
2900.14	0.0	0.	305.	940.	-0.02	0	2900.30	
9.14	0.0	0.0	5.74	1.27	0.04	2900.45	2899.30	
0.003482	0.049	0.110	0.050	0.120	0.00	-0.00	205.20	
	2891.00	10.	10.	10.	22.	447.	674.00	109.

*SECNO 1.780

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.78	2940.	0.	2607.	333.	1.36	20	249.	
2911.44	2911.44	0.	263.	208.	1.04	15	2914.00	
7.54	0.0	0.0	9.90	1.60	3.78	2912.80	2912.50	
0.014631	0.049	0.110	0.050	0.120	0.52	-0.00	449.38	

603

2903.90 600. 600. 600. 23. 380. 852.43 120.

*SECNO 1.780

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
1.78	2940.	0.	2103.	837.	0.44	4	495.	
2912.77	0.0	0.	338.	634.	-0.92	0	2914.00	
8.87	0.0	0.0	6.22	1.32	0.32	2913.21	2912.50	
0.005077	0.049	0.110	0.050	0.120	0.09	-0.00	444.51	
	2903.90	40.	40.	40.	28.	467.	939.23	121.

*SECNO 1.780

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2912.50 MAX ELLC= 2912.00

1.78	2940.	0.	1289.	1651.	0.24	2	501.	
2913.00	0.0	0.	240.	735.	-0.20	0	2912.00	
9.10	0.0	0.02	5.38	2.25	0.01	2913.24	2912.50	
0.013058	0.049	0.110	0.050	0.120	0.02	-40.17	457.84	
	2903.90	1.	1.	1.	27.	474.	958.71	121.

*SECNO 1.780

*** GR CARDS REPEATED

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2912.50 MAX ELLC= 2912.00

1.78	2940.	2.	1075.	1863.	0.15	2	549.	
2913.41	0.0	5.	243.	926.	-0.09	0	2912.00	
9.51	0.0	0.52	4.42	2.01	0.32	2913.56	2912.50	
0.008717	0.049	0.110	0.050	0.120	0.01	-55.66	443.53	
	2903.90	30.	30.	30.	41.	508.	992.67	122.

*SECNO 1.780

3265 DIVIDED FLOW

1.78	2940.	74.	1877.	988.	0.35	2	402.	
2913.32	0.0	52.	321.	705.	0.20	0	2908.00	
9.62	0.0	1.44	5.85	1.40	0.01	2913.67	2912.50	
0.003832	0.049	0.120	0.055	0.120	0.10	-0.00	442.50	
	2903.70	1.	1.	1.	41.	501.	984.77	122.

*SECNO 1.780

H03

3265 DIVIDED FLOW

1.78	2940.	75.	1859.	1006.	0.34	0	408.	
2913.37	0.0	53.	324.	727.	-0.02	0	2908.00	
9.67	0.0	1.41	5.75	1.38	0.04	2913.71	2912.50	
0.003656	0.049	0.120	0.055	0.120	0.00	-0.00	442.28	
	2903.70	10.	10.	10.	41.	506.	989.93	122.

*SECNO 1.940

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CHSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.94	2900.	75.	2597.	228.	1.53	20	203.	
2929.00	2929.00	53.	248.	101.	1.20	14	2928.40	
6.80	0.0	1.41	10.47	2.25	5.26	2930.53	2928.50	
0.018099	0.049	0.120	0.055	0.120	0.60	-0.00	540.00	
	2922.20	760.	760.	760.	89.	363.	992.31	135.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BW?	BAREA	SS
	1.25	1.60	3.00	0.0	37.20	0.01	137.50	0.0
	ELCHU	ELCHD						
	2922.50	2922.50						

*SECNO 1.940

*** GR CARDS REPEATED
 6870 D.S. ENERGY OF 2930.53 HIGHER THAN COMPUTED ENERGY OF 2930.17

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2940.06	2930.54	0.00	1975.	943.	138.	138.	2926.20
ELTRD							
2926.90							

1.94	2900.	102.	2536.	261.	1.33	4	220.
2929.20	0.0	67.	257.	122.	-0.20	0	2928.40
7.00	0.0	1.52	9.88	2.14	0.0	2930.53	2928.50

103

0.015413	0.049	0.120	0.055	0.120	0.0	-0.00	489.44	
	2922.20	30.	30.	30.	140.	370.	998.55	136.

*SECNO 1.940

3265 DIVIDED FLOW

1.94	2900.	147.	2392.	361.	0.95	8	290.	
2929.75	2929.04	102.	279.	194.	-0.39	5	2928.40	
7.55	0.0	1.44	8.56	1.86	0.13	2930.70	2928.50	
0.010343	0.049	0.120	0.055	0.120	0.04	-0.00	495.00	
	2922.20	10.	10.	10.	134.	386.	1014.93	136.

*SECNO 1.980

3265 DIVIDED FLOW

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.98	2900.	37.	2011.	852.	0.84	20	599.	
2934.37	2934.37	28.	229.	579.	-0.11	9	2931.50	
9.97	0.0	1.32	8.76	1.47	1.83	2935.21	2932.00	
0.009975	0.049	0.120	0.055	0.120	0.01	-0.00	387.97	
	2924.40	180.	180.	180.	45.	579.	1011.59	139.

SPECIAL BRIDGE

SB	HK	XKOR	COFq	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.40	0.01	165.00	0.0
	ELCHU	ELCHD						
	2924.40	2924.40						

*SECNO 1.980

6870 D.S. ENERGY OF 2935.21 HIGHER THAN COMPUTED ENERGY OF 2934.62

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2934.62	2934.58	0.00	2378.	526.	165.	167.	2932.20

ELTRD
 2931.70

1.98	2900.	40.	1919.	940.	0.70	2	601.
2934.50	0.0	32.	234.	654.	-0.13	0	2931.50

J03

10.10	0.0	1.26	8.22	1.44	0.0	2935.21	2932.00
0.008557	0.049	0.120	0.055	0.120	0.0	-0.00	385.95
	2924.40	30.	30.	30.	47.	579.	1011.97
							139.

*SECNO 1.980

*** GR CARDS REPEATED

3265 DIVIDED FLOW

ALLEN CREEK		50 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		
1.98	2900.	48.	1747.	1105.	0.50	3	607.	
2934.80	0.0	42.	242.	807.	-0.21	0	2931.50	
10.40	0.0	1.16	7.22	1.37	0.07	2935.30	2932.00	
0.006291	0.049	0.120	0.055	0.120	0.02	-0.00	381.00	
	2924.40	10.	10.	10.	52.	580.	1012.76	139.

*SECNO 2.130

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

2.13	2900.	0.	2618.	282.	1.37	20	220.	
2949.40	2949.40	0.	265.	169.	0.87	17	2951.20	
6.40	0.0	0.0	9.86	1.67	7.23	2950.77	2951.00	
0.015024	0.049	0.080	0.050	0.120	0.44	-0.00	340.35	
	2943.00	780.	780.	780.	28.	300.	668.00	153.

K03

THIS RUN EXECUTED 08/01/81 8:22:41

HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
ERROR CORR - 01,02,03
MODIFICATION - 50,51,52,53,54

T1	WAYNESVILLE NC	1730
T2	100 YEAR FLOOD	1735
T3	ALLEN CREEK	1740

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	0.	4.	0.	0.	0.01200	0.	0.0	0.	0.0	0.0	1745
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	3.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	1750

L03

*PROF 3

CCHV= 0.100 CEHV= 0.500

*SECNO .020

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3280 CROSS SECTION 0.02 EXTENDED 2.09 FEET

ALLEN CREEK			100 YEAR FLOOD		08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	
0.02	3700.	2.	2482.	1216.	0.93	0	205.		
2741.69	0.0	2.	269.	444.	0.50	0	2740.30		
7.19	0.0	1.15	9.24	2.74	0.0	2742.62	2738.80		
0.012010	0.0	0.100	0.055	0.120	0.0	-0.00	197.69		
	2734.50	0.	0.	0.	26.	180.	403.00	0.	

*SECNO .080

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK			100 YEAR FLOOD		08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	
0.08	3700.	0.	3700.	0.	3.25	3	40.		
2746.16	2746.16	0.	256.	0.	2.32	8	2750.00		
7.46	0.0	0.0	14.46	0.0	5.22	2749.40	2749.90		
0.032721	0.055	0.090	0.055	0.110	1.16	0.0	60.00		
	2738.70	280.	280.	280.	20.	20.	100.00	3.	

*SECNO .160

3301 HV CHANGED MORE THAN HVINS

0.16	3700.	7.	3693.	0.	2.72	3	47.		
2754.36	0.0	4.	279.	0.	-0.52	0	2752.30		
10.36	0.0	1.74	13.26	0.0	7.63	2757.08	2757.80		
0.012465	0.046	0.090	0.040	0.110	0.05	-0.00	540.96		
	2744.00	400.	400.	400.	32.	16.	588.11	6.	

*SECNO .160

*** GR CARDS REPEATED

3265 DIVIDED FLOW

M03

3301 HV CHANGED MORE THAN HVINS

0.16	3700.	22.	3676.	2.	1.79	6	110.	
2755.76	2753.98	12.	342.	7.	-0.94	8	2752.30	
11.76	0.0	1.85	10.76	0.29	0.37	2757.54	2757.80	
0.007065	0.046	0.090	0.040	0.110	0.09	-0.00	538.22	
	2744.00	40.	40.	40.	34.	247.	819.25	6.

*SECNO .160

3265 DIVIDED FLOW

ALLEN CREEK			100 YEAR FLOOD		08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2759.50 MAX ELLC= 2760.50

0.16	3700.	0.	3700.	0.	1.99	2	51.	
2755.67	0.0	0.	327.	0.	0.20	0	2763.00	
11.67	0.0	0.0	11.32	0.0	0.01	2757.66	2761.70	
0.021516	0.046	0.090	0.040	0.110	0.10	-0.00	538.52	
	2744.00	1.	1.	1.	9.	45.	592.50	6.

*SECNO .160

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.16 EXTENDED 0.33 FEET

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2759.50 MAX ELLC= 2760.50

0.16	3700.	0.	3698.	2.	1.40	3	76.	
2756.84	0.0	0.	389.	3.	-0.59	0	2763.00	
12.84	0.0	0.0	9.50	0.49	0.52	2758.24	2761.70	
0.014360	0.045	0.090	0.040	0.110	0.06	-0.00	536.28	
	2744.00	30.	30.	30.	12.	328.	876.00	6.

*SECNO .160

3265 DIVIDED FLOW

3280 CROSS SECTION 0.16 EXTENDED 1.07 FEET

3301 HV CHANGED MORE THAN HVINS

0.16	3700.	183.	3193.	324.	0.73	3	357.	
2757.58	0.0	110.	434.	349.	-0.67	0	2752.30	
13.58	0.0	1.66	7.36	0.93	0.01	2758.31	2757.80	
0.002820	0.045	0.090	0.040	0.110	0.07	-0.00	503.37	
	2744.00	1.	1.	1.	69.	303.	875.00	6.

*SECNO .160

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.16 EXTENDED 1.29 FEET

0.16	3700.	207.	2988.	505.	0.57	2	375.	
2757.79	0.0	119.	446.	408.	-0.16	0	2752.30	
13.79	0.0	1.74	6.70	1.24	0.03	2758.36	2757.80	
0.004349	0.045	0.110	0.055	0.110	0.02	-0.00	501.65	
	2744.00	10.	10.	10.	71.	303.	875.00	6.

*SECNO .280

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

0.28	3700.	0.	3081.	619.	2.32	20	99.	
2767.26	2767.26	0.	232.	178.	1.75	14	2769.00	
8.06	0.0	0.0	13.29	3.47	5.00	2769.58	2761.20	
0.018006	0.045	0.070	0.045	0.120	0.87	-0.00	759.35	
	2759.20	640.	640.	640.	18.	81.	858.83	17.

*SECNO .280

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

B04

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2771.00 ELREA= 2771.00

0.28	3700.	0.	3700.	0.	3.13	3	42.	
2767.96	2767.96	0.	261.	0.	0.81	8	2769.00	
8.76	0.0	0.0	14.19	0.0	0.73	2771.08	2761.20	
0.018529	0.045	0.070	0.045	0.120	0.40	-0.00	757.61	
	2759.20	40.	40.	40.	20.	23.	800.00	17.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.26	1.60	3.00	0.0	28.80	0.01	300.00	0.0
	ELCHU	ELCHD						
	2759.20	2759.20						

*SECNO .280
6870 D.S. ENERGY OF 2771.08 HIGHER THAN COMPUTED ENERGY OF 2770.55

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	E.LLC
2771.74	2770.85	0.01	638.	3063.	300.	299.	2769.60
ELTRD							
2770.00							

*** NOTE: QWEIR IS GREATER THAN 0 AND ELEV IS LESS THAN ELTRD ***

0.28	3700.	0.	3700.	0.	4.37	9	40.	
2766.71	0.0	0.	220.	0.	1.25	0	2771.70	
7.51	0.0	0.0	16.78	0.0	0.0	2771.08	2772.70	
0.033702	0.045	0.070	0.045	0.120	0.0	-0.00	763.95	
	2759.20	30.	30.	30.	21.	19.	803.83	17.

*SECNO .280

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.28	3700.	0.	3700.	0.	1.78	13	43.	
2769.72	2767.64	0.	346.	0.	-2.59	8	2771.70	
10.52	0.0	0.0	10.71	0.0	0.16	2771.50	2772.70	
0.009015	0.045	0.100	0.045	0.120	0.26	-0.00	762.77	
	2759.20	10.	10.	10.	22.	21.	805.93	17.

*SECNO .370

3265 DIVIDED FLOW

C04

3280 CROSS SECTION 0.37 EXTENDED 1.58 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.37	3700.	93.	3194.	413.	1.22	3	480.	
2777.48	2777.48	95.	335.	293.	-0.55	12	2777.20	
8.48	0.0	0.98	9.54	1.41	3.60	2778.70	2777.50	
0.008549	0.045	0.100	0.045	0.120	0.06	-0.00	485.24	
	2769.00	410.	410.	410.	231.	567.	1283.00	22.

*SECNO .510

3265 DIVIDED FLOW

3280 CROSS SECTION 0.51 EXTENDED 2.35 FEET

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.51	3700.	21.	2032.	1646.	0.74	20	754.	
2790.35	2790.35	36.	223.	716.	-0.48	9	2789.70	
7.65	0.0	0.60	9.11	2.30	7.43	2791.10	2789.70	
0.012706	0.046	0.100	0.050	0.100	0.05	-0.00	198.11	
	2782.70	720.	720.	720.	482.	520.	1200.00	36.

*SECNO .530

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.53 EXTENDED 2.34 FEET

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	

D04

ELMIN XLOBL XLCH XLOBR WSDL WSDR ENDST VOL

3685 20 TRIALS ATTEMPTED WSEL, CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.53	3700.	20.	2038.	1642.	0.75	20	751.
2793.14	2793.14	34.	223.	713.	0.01	5	2792.50
7.64	0.0	0.59	9.14	2.30	0.83	2793.90	2792.50
0.012837	0.046	0.100	0.050	0.100	0.00	0.0	198.21
	2785.50	65.	65.	65.	482.	520.	1200.00

*SECNO .530

*** GR CARDS REPEATED

3280 CROSS SECTION 0.53 EXTENDED 3.19 FEET

3301 HV CHANGED MORE THAN HVINS

0.53	3700.	292.	1472.	1936.	0.23	3	1012.
2793.99	0.0	350.	257.	1136.	-0.52	0	2792.50
8.49	0.0	0.84	5.73	1.70	0.27	2794.22	2792.50
0.004177	0.046	0.100	0.050	0.100	0.05	-0.00	187.76
	2785.50	40.	40.	40.	492.	520.	1200.00

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	30.30	0.01	100.00	0.0
	ELCHU	ELCHD						
	2787.00	2787.00						

*SECNO .530

6870 D.S. ENERGY OF 2794.22 HIGHER THAN COMPUTED ENERGY OF 2794.14
3280 CROSS SECTION 0.53 EXTENDED 3.20 FEET

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2828.00	2794.22	0.00	3455.	244.	100.	100.	2790.30

ELTRD
2790.80

0.53	3700.	294.	1469.	1937.	0.23	2	1012.
2793.99	0.0	351.	257.	1138.	-0.00	0	2792.50
8.49	0.0	0.84	5.72	1.70	0.0	2794.22	2792.50
0.004153	0.046	0.100	0.050	0.100	0.0	-0.00	187.70
	2785.50	30.	30.	30.	492.	520.	1200.00

*SECNO .530

3265 DIVIDED FLOW

3280 CROSS SECTION 0.53 EXTENDED 3.23 FEET

0.53	3700.	320.	1496.	1884.	0.24	0	953.	
2794.03	0.0	370.	258.	1065.	0.01	0	2792.50	
8.53	0.0	0.87	5.79	1.77	0.04	2794.27	2792.50	
0.004220	0.046	0.100	0.050	0.100	0.00	-0.00	187.22	
	2785.50	10.	10.	10.	493.	520.	1200.00	40.

*SECNO .690

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

0.69	3700.	198.	3113.	389.	1.41	20	307.	
2809.59	2809.59	121.	301.	206.	1.17	8	2808.50	
9.09	0.0	1.64	10.35	1.89	5.65	2811.00	2808.00	
0.010320	0.047	0.100	0.050	0.100	0.59	-0.00	154.10	
	2800.50	900.	900.	900.	133.	214.	500.84	64.

*SECNO .730

*** GR CARDS REPEATED

3265 DIVIDED FLOW

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.73	3700.	202.	3102.	395.	1.39	0	308.	
2811.11	2811.11	123.	302.	209.	-0.02	5	2810.00	
9.11	0.0	1.64	10.29	1.89	1.33	2812.50	2809.50	
0.010151	0.047	0.100	0.050	0.100	0.00	-0.00	153.34	
	2802.00	130.	130.	130.	134.	214.	500.89	66.

*SECNO .730

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX ELLC= 2808.70

0.73	3700.	814.	1280.	1606.	0.26	10	394.	
2812.36	2811.34	305.	229.	516.	-1.13	13	2810.00	
10.86	0.0	2.67	5.58	3.11	0.01	2812.62	2810.00	
0.012593	0.047	0.100	0.050	0.100	0.11	-55.42	109.13	
	2801.50	1.	1.	1.	176.	218.	503.20	66.

*SECNO .730

*** GR CARDS REPEATED

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX ELLC= 2808.70

0.73	3700.	862.	1180.	1658.	0.20	2	404.	
2812.64	0.0	350.	237.	571.	-0.05	0	2810.00	
11.14	0.0	2.46	4.98	2.90	0.22	2812.85	2810.00	
0.009587	0.047	0.100	0.050	0.100	0.01	-55.42	99.56	
	2801.50	20.	20.	20.	185.	219.	503.90	67.

*SECNO .730

0.73	3700.	453.	2388.	859.	0.46	2	400.	
2812.52	0.0	318.	358.	516.	0.26	0	2810.00	
10.52	0.0	1.42	6.67	1.67	0.01	2812.98	2809.50	
0.003400	0.047	0.100	0.050	0.100	0.13	-0.00	103.85	
	2802.00	1.	1.	1.	183.	217.	504.19	67.

*SECNO .730

*** GR CARDS REPEATED

0.73	3700.	463.	2363.	873.	0.44	0	403.	
2812.57	0.0	329.	361.	528.	-0.02	0	2810.00	
10.57	0.0	1.41	6.56	1.65	0.03	2813.01	2809.50	
0.003252	0.047	0.100	0.050	0.100	0.00	-0.00	101.61	
	2802.00	10.	10.	10.	185.	217.	504.34	67.

*SECNO .760

*** GR CARDS REPEATED

ALLEN CREEK

100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.76	3700.	347.	2646.	707.	0.74	2	372.	
2813.26	0.0	205.	328.	367.	0.30	0	2811.50	
9.76	0.0	1.69	8.08	1.92	0.84	2814.00	2811.00	
0.005605	0.047	0.090	0.050	0.090	0.15	-0.00	130.47	
	2803.50	200.	200.	200.	157.	215.	502.41	72.

*SECNO .840

604

ALLEN CREEK		100 YEAR FLOOD			08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGIT		
SLOPE	WTN	XNL	XNCH	XNR	LOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	
7185 MINIMUM SPECIFIC ENERGY									
3720 CRITICAL DEPTH ASSUMED									
0.84	3700.	369.	3040.	292.	1.16	7	326.		
2819.42	2819.42	188.	320.	171.	0.42	10	2818.00		
8.92	0.0	1.96	9.49	1.71	3.05	2820.58	2818.00		
0.008815	0.048	0.090	0.050	0.090	0.21	-0.00	424.32		
	2810.50	440.	440.	440.	156.	170.	750.00	80.	

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	32.50	0.01	240.00	0.0
	ELCHU	ELCHD						
	2810.50	2810.50						

*SECNO .840

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2820.58 HIGHER THAN COMPUTED ENERGY OF 2820.46
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	WEIR	QPR	BAREA	TAREA	ELLC
2820.46	2820.19	0.00	1.181.	1551.	240.	244.	2818.00
	ELTRD						
	2817.00						

0.84	3700.	385.	3003.	312.	1.10	4	328.		
2819.48	0.0	197.	323.	181.	-0.06	0	2818.00		
8.98	0.0	1.95	9.30	1.73	0.0	2820.58	2818.00		
0.008365	0.048	0.090	0.050	0.090	0.0	-0.00	422.21		
	2810.50	30.	30.	30.	158.	170.	750.00	80.	

*SECNO .840

*** GR CARDS REPEATED									
0.84	3700.	468.	2819.	413.	0.84	4	339.		
2819.84	0.0	247.	337.	233.	-0.26	0	2818.00		
9.34	0.0	1.89	8.37	1.78	0.07	2820.68	2818.00		
0.006408	0.048	0.090	0.050	0.090	0.03	-0.00	411.36		
	2810.50	10.	10.	10.	169.	170.	750.00	81.	

*SECNO .900

*** GR CARDS REPEATED									
ALLEN CREEK		100 YEAR FLOOD			08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		

H04

DEPTH SLOPE	WSELK WTN ELMIN	VLOB XNL XLOBL	VCH XNCH XLCH	VROB XNR XLOBR	HL OLOSS WSDL	EG CORAR WSDR	LEFT/RIGHT SSTA ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.90	3700.	335.	3115.	250.	1.29	2	321.	
2822.49	2822.49	170.	315.	150.	0.45	12	2821.20	
8.79	0.0	1.97	9.89	1.67	1.96	2823.77	2821.20	
0.009795	0.048	0.090	0.050	0.090	0.22	-0.00	428.56	
	2813.70	250.	250.	250.	151.	170.	750.00	85.

*SECNO .980

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.98	3650.	0.	3650.	0.	2.76	3	51.	
2828.42	2828.42	0.	274.	0.	1.47	15	2828.50	
7.02	0.0	0.0	13.32	0.03	6.43	2831.17	2829.50	
0.025812	0.048	0.090	0.050	0.090	0.73	-0.00	709.16	
	2821.40	430.	430.	430.	25.	96.	830.12	89.

*SECNO 1.050

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

1.05	3650.	8.	3637.	5.	1.99	3	76.	
2836.74	0.0	7.	321.	4.	-0.77	0	2835.90	
7.94	0.0	1.15	11.33	1.23	7.48	2838.73	2836.90	
0.015488	0.048	0.090	0.050	0.090	0.08	-0.00	693.02	
	2828.80	380.	380.	380.	41.	101.	835.88	92.

*SECNO 1.120

3265 DIVIDED FLOW

3280 CROSS SECTION 1.12 EXTENDED 0.54 FEET

3301 HV CHANGED MORE THAN HVINS

1.12	3650.	63.	3486.	101.	0.70	5	341.	
2844.04	0.0	67.	506.	115.	-1.28	0	2843.50	
8.44	0.0	0.94	6.89	0.88	5.89	2844.74	2842.50	
0.004735	0.048	0.090	0.050	0.090	0.13	-0.00	731.01	
	2835.60	750.	750.	750.	130.	344.	1205.00	101.

*SECNO 1.320

3265 DIVIDED FLOW

3280 CROSS SECTION 1.32 EXTENDED 1.81 FEET

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED								
1.32	3650.	81.	2755.	814.	0.97	20	495.	
2863.01	2863.01	44.	306.	399.	0.26	12	2862.00	
7.01	0.0	1.83	9.02	2.04	6.68	2863.97	2864.00	
0.010128	0.049	0.080	0.050	0.090	0.13	-0.00	490.54	
	2856.00	1000.	1000.	1000.	226.	536.	1252.00	117.

*SECNO 1.440

3265 DIVIDED FLOW

3280 CROSS SECTION 1.44 EXTENDED 1.52 FEET

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.44	3650.	62.	2854.	734.	0.92	13	617.	
2876.52	2876.52	59.	329.	420.	-0.04	12	2876.40	
8.92	0.0	1.05	8.68	1.75	5.39	2877.44	2875.70	
0.008033	0.049	0.070	0.050	0.090	0.00	0.0	268.35	
	2867.60	600.	600.	600.	203.	529.	1000.00	128.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
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J04

1.25	1.60	3.00	0.0	37.70	0.01	275.00	0.0
ELCHU	ELCHD						
2867.20	2867.20						

*SECNO 1.440

*** GR CARDS REPEATED

6870 D.S. ENERGY OF 2877.44 HIGHER THAN COMPUTED ENERGY OF 2876.97

3265 DIVIDED FLOW

3280 CROSS SECTION 1.44 EXTENDED 1.69 FEET

ALLEN CREEK		100 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2880.90	2877.45	0.00	2489.	1170.	275.	279.	2874.60

ELTRD
2875.90

1.44	3650.	101.	2716.	833.	0.76	3	619.	
2876.68	0.0	85.	337.	493.	-0.17	0	2876.40	
9.08	0.0	1.20	8.05	1.69	0.0	2877.44	2875.70	
0.006675	0.049	0.070	0.050	0.090	0.0	-0.00	265.85	
	2867.60	30.	30.	30.	205.	529.	1000.00	128.

*SECNO 1.440

3265 DIVIDED FLOW

3280 CROSS SECTION 1.44 EXTENDED 2.03 FEET

1.44	3650.	154.	2444.	1052.	0.50	4	618.	
2877.03	0.0	116.	358.	633.	-0.26	0	2876.40	
9.43	0.0	1.33	6.83	1.66	0.06	2877.53	2875.70	
0.005083	0.049	0.070	0.050	0.090	0.03	-0.00	260.96	
	2867.60	10.	10.	10.	207.	532.	1000.00	129.

*SECNO 1.530

3265 DIVIDED FLOW

ALLEN CREEK		100 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	

K04

ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 2D TRIALS ATTEMPTED WSEL,CWSEL							
3693 PROBABLE MINIMUM SPECIFIC ENERGY							
3720 CRITICAL DEPTH ASSUMED							
1.53	3650.	0.	2768.	882.	0.98	20	503.
2885.29	2885.29	0.	305.	558.	0.48	14	2887.50
7.69	0.0	0.0	9.09	1.58	3.31	2886.28	2882.50
0.009867	0.049	0.110	0.050	0.120	0.24	-0.00	443.02
	2877.60	480.	480.	480.	25.	658.	1126.91
							140.

*SECNO 1.640

3280 CROSS SECTION 1.64 EXTENDED 1.04 FEET

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.64	3650.	0.	2601.	1049.	1.05	10	468.
2896.14	2896.14	0.	269.	601.	0.06	8	2897.10
8.34	0.0	0.0	9.66	1.75	5.68	2897.19	2896.10
0.011236	0.049	0.110	0.050	0.120	0.03	-0.00	206.18
	2887.80	540.	540.	540.	21.	447.	674.00
							150.

*SECNO 1.660

*** GR CARDS REPEATED

3280 CROSS SECTION 1.66 EXTENDED 1.07 FEET

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 2D TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.66	3650.	0.	2584.	1066.	1.02	20	468.
2899.37	2899.37	0.	270.	612.	-0.03	5	2900.30
8.37	0.0	0.0	9.55	1.74	1.11	2900.38	2899.30
0.010947	0.049	0.110	0.050	0.120	0.00	-0.00	206.15
	2891.00	100.	100.	100.	21.	447.	674.00
							152.

*SECNO 1.660

3265 DIVIDED FLOW

3280 CROSS SECTION 1.66 EXTENDED 1.90 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VRQB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2899.50 MAX ELLC= 2899.20

1.66	3650.	0.	1431.	2219.	0.26	6	450.	
2900.21	0.0	0.	245.	936.	-0.73	0	2900.70	
9.71	0.0	0.0	5.85	2.37	0.01	2900.47	2900.60	
0.011698	0.049	0.110	0.050	0.120	0.08	-50.37	211.00	
	2890.50	1.	1.	1.	18.	446.	674.00	152.

*SECNO 1.660

*** GR CARDS REPEATED

3280 CROSS SECTION 1.66 EXTENDED 2.31 FEET

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2899.50 MAX ELLC= 2899.20

1.66	3650.	0.	1196.	2454.	0.16	2	465.	
2900.61	0.0	0.	255.	1108.	-0.10	0	2900.70	
10.11	0.0	0.0	4.68	2.21	0.30	2900.78	2900.60	
0.008400	0.049	0.110	0.050	0.120	0.01	-54.15	211.00	
	2890.50	30.	30.	30.	18.	446.	674.00	153.

*SECNO 1.660

3280 CROSS SECTION 1.66 EXTENDED 2.22 FEET

1.66	3650.	0.	2019.	1631.	0.35	2	475.	
2900.52	0.0	1.	322.	1102.	0.19	0	2900.30	
9.52	0.0	0.20	6.27	1.48	0.01	2900.88	2899.30	
0.003886	0.049	0.110	0.050	0.120	0.10	-0.00	199.27	
	2891.00	1.	1.	1.	28.	447.	674.00	153.

*SECNO 1.660

*** GR CARDS REPEATED

3280 CROSS SECTION 1.66 EXTENDED 2.29 FEET

1.66	3650.	0.	1998.	1652.	0.34	0	476.	
2900.58	0.0	1.	325.	1128.	-0.02	0	2900.30	
9.58	0.0	0.23	6.15	1.46	0.04	2900.92	2899.30	
0.003698	0.049	0.110	0.050	0.120	0.00	-0.00	197.71	
	2891.00	10.	10.	10.	30.	447.	674.00	154.

*SECNO 1.780

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	
1.78	3650.	0.	2909.	741.	1.14	20	398.		
2912.20	2912.20	0.	304.	405.	0.81	12	2914.00		
8.30	0.0	0.0	9.56	1.83	3.76	2913.34	2912.50		
0.012878	0.049	0.110	0.050	0.120	0.40	-0.00	446.62		
	2903.90	600.	600.	600.	26.	422.	894.22	168.	

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

*SECNO 1.780

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	
1.78	3650.	0.	2372.	1278.	0.43	3	539.		
2913.29	0.0	0.	369.	865.	-0.71	0	2914.00		
9.39	0.0	0.0	6.42	1.48	0.30	2913.71	2912.50		
0.005000	0.049	0.110	0.050	0.120	0.07	-0.00	442.65		
	2903.90	40.	40.	40.	30.	509.	981.40	169.	

*SECNO 1.780

3370 NORMAL BRIDGE,NRD= 6 MIN ELTRD= 2912.50 MAX ELLC= 2912.00

1.78	3650.	5.	1254.	2391.	0.20	2	588.		
2913.54	0.0	8.	244.	995.	-0.23	0	2912.00		
9.64	0.0	0.70	5.14	2.40	0.01	2913.74	2912.50		
0.011710	0.049	0.110	0.050	0.120	0.02	-60.99	438.60		
	2903.90	1.	1.	1.	46.	541.	1026.24	169.	

*SECNO 1.780

*** GR CARDS REPEATED

A05

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2912.50 MAX ELLC= 2912.00

1.78	3650.	14.	1072.	2564.	0.14	2	683.	
2913.91	0.0	18.	247.	1201.	-0.06	0	2912.00	
10.01	0.0	0.78	4.34	2.14	0.29	2914.04	2912.50	
0.008257	0.049	0.110	0.050	0.120	0.01	-74.48	426.14	
	2903.90	30.	30.	30.	59.	624.	1109.02	170.

*SECNO 1.780

3265 DIVIDED FLOW

1.78	3650.	97.	2162.	1391.	0.38	2	523.	
2913.79	0.0	61.	341.	890.	0.25	0	2908.00	
10.09	0.0	1.58	6.34	1.56	0.01	2914.17	2912.50	
0.004142	0.049	0.120	0.055	0.120	0.12	-0.00	440.77	
	2903.70	1.	1.	1.	43.	620.	1103.86	170.

*SECNO 1.780

3265 DIVIDED FLOW

1.78	3650.	98.	2140.	1412.	0.37	0	526.	
2913.85	0.0	63.	344.	919.	-0.02	0	2908.00	
10.15	0.0	1.56	6.22	1.54	0.04	2914.21	2912.50	
0.003957	0.049	0.120	0.055	0.120	0.00	-0.00	440.55	
	2903.70	10.	10.	10.	43.	623.	1106.51	171.

*SECNO 1.940

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL, CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.94	3600.	215.	2944.	441.	1.43	20	304.	
2929.74	2929.74	112.	279.	192.	1.06	15	2928.40	
7.54	0.0	1.92	10.56	2.30	5.32	2931.17	2928.50	
0.015777	0.049	0.120	0.055	0.120	0.53	-0.00	458.79	
	2922.20	760.	760.	760.	170.	386.	1014.55	187.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	37.20	0.01	137.50	0.0

B05

ELCHV ELCHD
2922.50 2922.50

*SECNO 1.940

*** GR CARDS REPEATED
6870 D.S. ENERGY OF 2931.17 HIGHER THAN COMPUTED ENERGY OF 2930.57

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS EGLWC H3 QWEIR QPR BAREA TAREA ELLC
2946.77 2931.17 0.00 2803. 796. 138. 138. 2926.20

ELTRD
2926.90

1.94 3600. 246. 2870. 484. 1.26 4 337.
2929.91 0.0 130. 286. 223. -0.17 0 2928.40
7.71 0.0 1.90 10.03 2.17 0.0 2931.17 2928.50
0.013733 0.049 0.120 0.055 0.120 0.0 -0.00 455.00
2922.20 30. 30. 30. 174. 391. 1019.92 188.

*SECNO 1.940

3265 DIVIDED FLOW

1.94 3600. 290. 2668. 643. 0.87 8 518.
2930.44 2929.83 169. 308. 359. -0.39 6 2928.40
8.24 0.0 1.72 8.65 1.79 0.11 2931.32 2928.50
0.009253 0.049 0.120 0.055 0.120 0.04 -0.00 422.07
2922.20 10. 10. 10. 207. 407. 1035.97 188.

*SECNO 1.980

3265 DIVIDED FLOW

ALLEN CREEK 100 YEAR FLOOD 08/01/81
MILE Q QLOB QCH QROB HV ITRIAL TOPWID
ELEV CRIWS ALOB ACH AROB DHV IDC BANK ELEV
DEPTH WSELK VLOB VCH VROB HL EG LEFT/RIGHT
SLOPE WTN XNL XNCH XNR OLOSS CORAR SSTA
ELMIN XLOBL XLCH XLOBR WSDL WSDR ENDST VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.98 3600. 58. 2212. 1330. 0.83 20 606.
2934.73 2934.73 40. 240. 774. -0.05 13 2931.50
10.33 0.0 1.46 9.21 1.72 1.76 2935.56 2932.00
0.010345 0.049 0.120 0.055 0.120 0.00 -0.00 381.56
2924.40 180. 180. 180. 51. 580. 1012.59 192.

SPECIAL BRIDGE

D05

3685 20 TRIALS ATTEMPTED WSEL, CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2.13	3600.	0.	3071.	529.	1.44	20	241.
2949.92	2949.92	0.	296.	259.	0.91	21	2951.20
6.92	0.0	0.0	10.38	2.04	7.65	2951.36	2951.00
0.015148	0.049	0.080	0.050	0.120	0.46	-0.00	339.08
	2943.00	780.	780.	780.	29.	300.	668.00
							209.

EOS

THIS RUN EXECUTED 08/01/81 8:22:52

HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
ERROR CORR - 01,02,03
MODIFICATION - 50,51,52,53,54

T1	WAYNESVILLE NC	1755
T2	500 YEAR FLOOD	1760
T3	ALLEN CREEK	1765

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	0.	5.	0.	0.	0.01200	0.	0.0	0.	0.0	0.0	1770

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	15.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	1775

F05

*PROF 4

CCHV= 0.100 CEHV= 0.500

*SECNO .020

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

3280 CROSS SECTION 0.02 EXTENDED 3.17 FEET

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.02	5400.	9.	3320.	2071.	1.10	0	207.	
2742.77	0.0	5.	320.	614.	0.50	0	2740.30	
8.27	0.0	1.70	10.39	3.37	0.0	2743.87	2738.80	
0.012038	0.0	0.100	0.055	0.120	0.0	-0.00	195.88	
	2734.50	0.	0.	0.	28.	180.	403.00	0.

*SECNO .080

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185	MINIMUM SPECIFIC ENERGY							
3720	CRITICAL DEPTH ASSUMED							
0.08	5400.	0.	5400.	0.	4.15	3	40.	
2748.01	2748.01	0.	330.	0.	3.06	8	2750.00	
9.31	0.0	0.0	16.36	0.0	5.23	2752.17	2749.90	
0.032778	0.055	0.090	0.055	0.110	1.53	0.0	60.00	
	2738.70	280.	280.	280.	20.	20.	100.00	4.

*SECNO .160

3265 DIVIDED FLOW

3280 CROSS SECTION 0.16 EXTENDED 0.83 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

605

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.16	5400.	60.	4949.	391.	1.97	3	310.	
2757.33	2757.33	25.	421.	287.	-2.18	17	2752.30	
13.33	0.0	2.42	11.76	1.36	5.41	2759.30	2757.80	
0.007346	0.046	0.090	0.040	0.110	0.22	-0.00	504.81	
	2744.00	400.	400.	400.	68.	303.	875.00	9.

*SECNO .160

*** GR CARDS REPEATED

3280 CROSS SECTION 0.16 EXTENDED 2.10 FEET

3301 HV CHANGED MORE THAN HVINS

0.16	5400.	124.	4371.	905.	1.01	5	375.	
2758.59	0.0	77.	490.	629.	-0.97	0	2752.30	
14.59	0.0	1.62	8.92	1.44	0.20	2759.59	2757.80	
0.003591	0.046	0.090	0.040	0.110	0.10	-0.00	500.00	
	2744.00	40.	40.	40.	73.	303.	875.00	10.

*SECNO .160

3265 DIVIDED FLOW

3280 CROSS SECTION 0.16 EXTENDED 1.80 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2759.50 MAX ELLC= 2760.50

0.16	5400.	0.	5212.	188.	1.62	4	203.	
2758.29	2757.28	0.	502.	94.	0.61	10	2763.00	
14.29	0.0	0.0	10.38	1.99	0.01	2759.91	2761.70	
0.020518	0.046	0.090	0.040	0.110	0.31	-0.00	496.00	
	2744.00	1.	1.	1.	52.	328.	876.00	10.

*SECNO .160

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.16 EXTENDED 3.13 FEET

K05

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2759.50 MAX ELLC= 2760.50

0.16	5400.	0.	4775.	625.	0.80	3	281.	
2759.63	0.0	0.	629.	288.	-0.82	0	2763.00	
15.63	0.0	0.0	7.60	2.17	0.45	2760.44	2761.70	
0.011336	0.045	0.090	0.040	0.110	0.08	-4.66	496.00	
	2744.00	30.	30.	30.	52.	328.	876.00	10.

*SECNO .160
3280 CROSS SECTION 0.16 EXTENDED 3.56 FEET

0.16	5400.	485.	3619.	1296.	0.43	2	478.	
2760.05	0.0	335.	570.	1030.	-0.37	0	2752.30	
16.05	0.0	1.44	6.35	1.26	0.00	2760.48	2757.80	
0.001486	0.045	0.090	0.040	0.110	0.04	-0.00	397.37	
	2744.00	1.	1.	1.	175.	303.	875.00	10.

*SECNO .160

*** GR CARDS REPEATED

3280 CROSS SECTION 0.16 EXTENDED 3.70 FEET

0.16	5400.	513.	3232.	1655.	0.30	2	485.	
2760.20	0.0	358.	578.	1070.	-0.12	0	2752.30	
16.20	0.0	1.43	5.59	1.55	0.02	2760.51	2757.80	
0.002137	0.045	0.110	0.055	0.110	0.01	-0.00	390.41	
	2744.00	10.	10.	10.	182.	303.	875.00	11.

*SECNO .280

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACh	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCh	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL, CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

0.28	5400.	0.	4313.	1087.	2.77	20	117.	
2768.66	2768.66	0.	291.	270.	2.47	15	2769.00	
9.46	0.0	0.0	14.81	4.03	3.04	2771.43	2761.20	
0.018397	0.045	0.070	0.045	0.120	1.23	-0.00	755.86	
	2759.20	640.	640.	640.	22.	95.	872.41	30.

*SECNO .280

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.28 EXTENDED 1.43 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		500 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		
0.28	5400.	677.	3006.	1716.	0.46	6	1217.	
2771.43	0.0	437.	416.	1420.	-2.31	0	2769.00	
12.23	0.0	1.55	7.23	1.21	0.23	2771.89	2761.20	
0.002794	0.045	0.070	0.045	0.120	0.23	-0.00	376.86	
	2759.20	40.	40.	40.	401.	823.	1600.00	31.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.26	1.60	3.00	0.0	28.80	0.01	300.00	0.0
	ELCHU	ELCHD						
	2759.20	2759.20						

*SECNO .280

3265 DIVIDED FLOW

3280 CROSS SECTION 0.28 EXTENDED 1.64 FEET

ALLEN CREEK		500 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		
0.28	5400.	326.	3828.	1246.	0.88	20	1131.	
2771.64	2771.64	238.	431.	1046.	0.41	5	2771.70	

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2779.48	2771.89	0.00	4106.	1321.	300.	299.	2769.60
ELTRD							
2770.00							

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3720 CRITICAL DEPTH ASSUMED

0.28	5400.	326.	3828.	1246.	0.88	20	1131.
2771.64	2771.64	238.	431.	1046.	0.41	5	2771.70

J05

12.44	0.0	1.37	8.89	1.19	0.11	2772.52	2772.70	
0.005141	0.045	0.070	0.045	0.120	-0.11	-0.00	345.04	
	2759.20	30.	30.	30.	440.	815.	1600.00	32.

*SECNO .280

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.28 EXTENDED 1.69 FEET

0.28	5400.	252.	3840.	1308.	0.88	0	1164.	
2771.69	2771.53	259.	433.	1082.	-0.00	5	2771.70	
12.49	0.0	0.97	8.87	1.21	0.05	2772.57	2772.70	
0.005096	0.045	0.100	0.045	0.120	0.00	-0.00	338.63	
	2759.20	10.	10.	10.	446.	815.	1600.00	33.

*SECNO .370

3265 DIVIDED FLOW

3280 CROSS SECTION 0.37 EXTENDED 2.54 FEET

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

0.37	5400.	484.	3861.	1056.	1.10	20	789.	
2778.44	2778.44	296.	389.	656.	0.23	13	2777.20	
9.44	0.0	1.63	9.91	1.61	2.52	2779.54	2777.50	
0.007546	0.045	0.100	0.045	0.120	0.11	0.0	463.66	
	2769.00	410.	410.	410.	253.	567.	1283.00	47.

*SECNO .510

3265 DIVIDED FLOW

3280 CROSS SECTION 0.51 EXTENDED 2.82 FEET

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

K05

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.51	5400.	204.	2484.	2712.	0.82	20	953.	
2790.82	2790.82	175.	242.	948.	-0.28	12	2789.70	
8.12	0.0	1.16	10.28	2.86	7.35	2791.64	2789.70	
0.014559	0.046	0.100	0.050	0.100	0.03	-0.00	192.40	
	2782.70	720.	720.	720.	488.	520.	1200.00	70.

*SECNO .530

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.53 EXTENDED 2.89 FEET

ALLEN CREEK

500 YEAR FLOOD

08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.53	5400.	243.	2413.	2744.	0.74	20	1002.	
2793.69	2793.69	208.	245.	985.	-0.08	5	2792.50	
8.19	0.0	1.17	9.86	2.79	0.90	2794.43	2792.50	
0.013184	0.046	0.100	0.050	0.100	0.01	-0.00	191.48	
	2785.50	65.	65.	65.	489.	520.	1200.00	72.

*SECNO .530

*** GR CARDS REPEATED

3280 CROSS SECTION 0.53 EXTENDED 3.72 FEET

0.53	5400.	732.	1785.	2883.	0.25	3	1019.	
2794.52	0.0	601.	278.	1401.	-0.49	0	2792.50	
9.02	0.0	1.22	6.42	2.06	0.30	2794.77	2792.50	
0.004718	0.046	0.100	0.050	0.100	0.05	-0.00	181.23	
	2785.50	40.	40.	40.	499.	520.	1200.00	74.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	30.30	0.01	100.00	0.0
ELCHU		ELCHD						
2787.00		2787.00						

*SECNO .530

6870 D.S. ENERGY OF 2794.77 HIGHER THAN COMPUTED ENERGY OF 2794.70

3280 CROSS SECTION 0.53 EXTENDED 3.73 FEET

L05

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2866.97	2794.77	0.00	5170.	268.	100.	100.	2790.30

ELTRD
2790.80

0.53	5400.	734.	1782.	2884.	0.25	2	1019.	
2794.52	0.0	603.	278.	1403.	-0.00	0	2792.50	
9.02	0.0	1.22	6.41	2.06	0.0	2794.77	2792.50	
0.004694	0.046	0.100	0.050	0.100	0.0	-0.00	181.16	
	2785.50	30.	30.	30.	499.	520.	1200.00	75.

*SECNO .530

3265 DIVIDED FLOW

3280 CROSS SECTION 0.53 EXTENDED 3.77 FEET

0.53	5400.	787.	1828.	2785.	0.26	0	959.	
2794.56	0.0	624.	280.	1300.	0.02	0	2792.50	
9.06	0.0	1.26	6.53	2.14	0.05	2794.83	2792.50	
0.004839	0.046	0.100	0.050	0.100	0.01	-0.00	180.63	
	2785.50	10.	10.	10.	499.	520.	1200.00	76.

*SECNO .690

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.69	5400.	560.	3894.	946.	1.50	20	343.	
2810.55	2810.55	245.	339.	354.	1.24	8	2808.50	
10.05	0.0	2.28	11.48	2.67	6.26	2812.05	2808.00	
0.010827	0.047	0.100	0.050	0.100	0.62	-0.00	120.44	
	2800.50	900.	900.	900.	167.	216.	503.08	108.

*SECNO .730

*** GR CARDS REPEATED

3265 DIVIDED FLOW

ALLEN CREEK
 MILE Q QLOB 500 YEAR FLOOD 08/01/81 HV HV TOPMID
 ELEV ALOB ACH AROB DHV IDC BANK ELEV
 DEPTH WSELK VLOS VCH VROB H1 LEFT/RIGHT
 SLOPE MTN XNL XNCH XNLR XNBR OLOSS CORAR SSTA
 ELMTN XLGBL XLCH XLBR MSDR WSDR ENDST VOL

7185 MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

0.73	5400.	553.	3909.	937.	1.53	0	342.
2812.02	2812.02	242.	338.	350.	0.03	5	2810.00
10.02	0.0	2.29	11.56	2.68	1.42		2809.50
0.011020	0.047	0.100	0.050	0.100	0.01		121.32
	2802.00	130.	130.	130.	166.		503.02

*SECNO .730

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX ELLC= 2808.70

0.73	5400.	1475.	1385.	2541.	0.24	4	415.
2813.45	0.0	493.	260.	737.	-1.29	0	2810.00
11.95	0.0	2.99	5.33	3.45	0.01		2810.00
0.009751	0.047	0.100	0.050	0.100	0.13		90.98
	2801.50	1.	1.	1.	194.		505.99

*SECNO .730

*** GR CARDS REPEATED

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX ELLC= 2808.70

0.73	5400.	1522.	1317.	2560.	0.21	0	417.
2813.67	0.0	532.	266.	782.	-0.03	0	2810.00
12.17	0.0	2.86	4.96	3.28	0.18		2810.00
0.008182	0.047	0.100	0.050	0.100	0.00		89.99
	2801.50	20.	20.	20.	195.		506.54

*SECNO .730

0.73	5400.	913.	2966.	1521.	0.50	2	416.
2913.52	0.0	492.	398.	715.	0.29	0	2810.00
11.52	0.0	1.86	7.45	2.13	0.01		2809.50
0.003678	0.047	0.100	0.050	0.100	0.15		90.63
	2802.00	1.	1.	1.	196.		506.54

*SECNO .730

*** GR CARDS REPEATED

0.73	5400.	926.	2940.	1534.	0.48	0	416.
2813.58	0.0	502.	400.	727.	-0.02	0	2810.00
11.58	0.0	1.84	7.34	2.11	0.04		2809.50
0.003545	0.047	0.100	0.050	0.100	0.00		90.36
	2802.00	10.	10.	10.	197.		506.68

112.

*SECNO .760

*** GR CARDS REPEATED

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.76	5400.	783.	3176.	1440.	0.71	2	411.	
2814.33	0.0	371.	370.	577.	0.22	0	2811.50	
10.83	0.0	2.11	8.58	2.49	0.86	2815.04	2811.00	
0.005367	0.047	0.090	0.050	0.090	0.11	-0.00	93.86	
	2803.50	200.	200.	200.	193.	218.	504.92	119.

*SECNO .840

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CRZEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.84	5400.	803.	3851.	746.	1.36	20	368.	
2820.20	2820.20	306.	351.	288.	0.65	15	2818.00	
9.70	0.0	2.63	10.96	2.59	3.20	2821.56	2818.00	
0.010370	0.048	0.090	0.050	0.090	0.33	-0.00	214.78	
	2810.50	440.	440.	440.	365.	170.	750.00	130.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	32.50	0.01	240.00	0.0
	ELCHU	ELCHD						
	2810.50	2810.50						

*SECNO .840

*** GR CARDS REPEATED

6870 D.S. ENERGY OF 2821.56 HIGHER THAN COMPUTED ENERGY OF 2821.23

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
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806

2821.23 2820.98 0.00 3872. 1538. 240. 244. 2818.00

ELTRD
2817.00

0.84	5400.	887.	3693.	820.	1.15	4	415.
2820.42	0.0	350.	360.	321.	-0.21	0	2818.00
9.92	0.0	2.54	10.25	2.56	0.0	2821.56	2818.00
0.008780	0.048	0.090	0.050	0.090	0.0	-0.00	203.81
	2810.50	30.	30.	30.	376.	170.	750.00
							131.

*SECNO .840

*** GR CARDS REPEATED

3265 DIVIDED FLOW

0.84	5400.	1043.	3421.	936.	0.85	4	486.
2820.82	0.0	454.	376.	380.	-0.30	0	2818.00
10.32	0.0	2.30	9.09	2.46	0.08	2821.67	2818.00
0.006526	0.048	0.090	0.050	0.090	0.03	-0.00	196.33
	2810.50	10.	10.	10.	384.	170.	750.00
							131.

*SECNO .900

*** GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		500 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		

7185 MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.90	5400.	800.	3859.	741.	1.37	2	367.
2823.39	2823.39	304.	351.	286.	0.53	11	2821.20
9.69	0.0	2.63	10.99	2.59	2.04	2824.76	2821.20
0.010452	0.048	0.090	0.050	0.090	0.26	-0.00	215.34
	2813.70	250.	250.	250.	365.	170.	750.00
							137.

*SECNO .980

3265 DIVIDED FLOW

ALLEN CREEK		500 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR		

C06

ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY							
3720 CRITICAL DEPTH ASSUMED							
0.98	5300.	377.	4701.	222.	1.82	3	255.
2831.08	2831.08	164.	410.	102.	0.45	5	2828.50
9.68	0.0	2.29	11.47	2.17	4.71	2832.90	2829.50
0.011514	0.048	0.090	0.050	0.090	0.23	-0.00	590.99
	2821.40	430.	430.	430.	144.	134.	868.20

*SECNO 1.050

*** GR CARDS REPEATED

3265 DIVIDED FLOW

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY							
3720 CRITICAL DEPTH ASSUMED							
1.05	5300.	377.	4701.	222.	1.82	3	255.
2838.48	2838.48	164.	410.	102.	-0.00	5	2835.90
9.68	0.0	2.29	11.47	2.17	4.37	2840.30	2836.90
0.011505	0.048	0.090	0.050	0.090	0.00	-0.00	590.98
	2828.80	380.	380.	380.	144.	134.	868.23

*SECNO 1.120

3265 DIVIDED FLOW

3280 CROSS SECTION 1.12 EXTENDED 1.52 FEET

3301 HV CHANGED MORE THAN HVINS

1.12	5300.	269.	4509.	522.	0.80	3	449.
2845.02	0.0	168.	583.	353.	-1.02	0	2843.50
9.42	0.0	1.60	7.73	1.48	5.41	2845.82	2842.50
0.004945	0.048	0.090	0.050	0.090	0.10	-0.00	706.49
	2835.60	750.	750.	750.	155.	344.	1205.00

*SECNO 1.320

3265 DIVIDED FLOW

3280 CROSS SECTION 1.32 EXTENDED 2.62 FEET

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	

006

DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	
3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.32	5300.	205.	3241.	1853.	0.88	20	572.	
2863.82	2863.82	96.	344.	732.	0.09	10	2862.00	
7.82	0.0	2.13	9.43	2.53	6.72	2864.70	2864.00	
0.009638	0.049	0.080	0.050	0.090	0.04	-0.00	486.70	
	2856.00	1000.	1000.	1000.	230.	536.	1252.00	193.

*SECNO 1.440

3265 DIVIDED FLOW

3280 CROSS SECTION 1.44 EXTENDED 2.17 FEET

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	

3685 20 TRIALS ATTEMPTED WSEL,CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.44	5300.	313.	3431.	1556.	0.93	20	626.	
2877.17	2877.17	158.	361.	692.	0.05	9	2876.40	
9.57	0.0	1.98	9.50	2.25	5.42	2878.10	2875.70	
0.008482	0.049	0.070	0.050	0.090	0.03	0.0	258.91	
	2867.60	600.	600.	600.	212.	529.	1000.00	209.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	37.70	0.01	275.00	0.0
	ELCHU	ELCHD						
	2867.20	2867.20						

*SECNO 1.440

*** GR CARDS REPEATED

6870 D.S. ENERGY OF 2878.10 HIGHER THAN COMPUTED ENERGY OF 2877.60

3265 DIVIDED FLOW

3280 CROSS SECTION 1.44 EXTENDED 2.30 FEET

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	

E06

SLOPE	WTN ELMIN	XNL XLOBL	XNCH XLCH	XNR XLOBR	LOSS WSDL	CORAR WSDR	SSTA ENDST	VOL
PRESSURE AND WEIR FLOW								
EGPRS 2886.40	EGLWC 2878.10	H3 0.00	QWEIR 4169.	QPR 1149.	BAREA 275.	TAREA 279.	ELLC 2874.60	
ELTRD 2875.90								
1.44	5300.	357.	3305.	1638.	0.81	3	628.	
2877.29	0.0	179.	368.	748.	-0.12	0	2876.40	
9.69	0.0	2.00	8.99	2.19	0.0	2878.10	2875.70	
0.007411	0.049	0.070	0.050	0.090	0.0	-0.00	256.96	
	2867.60	30.	30.	30.	214.	529.	1000.00	210.

*SECNO 1.440

3265 DIVIDED FLOW

3280 CROSS SECTION 1.44 EXTENDED 2.65 FEET

1.44	5300.	415.	2999.	1886.	0.54	4	641.	
2877.65	0.0	211.	393.	894.	-0.27	0	2876.40	
10.05	0.0	1.97	7.64	2.11	0.06	2878.19	2875.70	
0.005616	0.049	0.070	0.050	0.090	0.03	-0.00	237.75	
	2867.60	10.	10.	10.	230.	532.	1000.00	210.

*SECNO 1.530

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		500 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRIS	ALOB	ACH	AROB	DHV	IDC		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	LOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED								
1.53	5300.	0.	3484.	1816.	1.09	20	505.	
2886.00	2886.00	0.	341.	878.	0.54	10	2887.50	
8.40	0.0	0.0	10.20	2.07	3.65	2887.09	2882.50	
0.010871	0.049	0.110	0.050	0.120	0.27	-0.00	442.69	
	2877.60	480.	480.	480.	26.	660.	1128.46	225.

*SECNO 1.640

3280 CROSS SECTION 1.64 EXTENDED 1.63 FEET

F06

ALLEN CREEK		500 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.64	5300.	0.	3294.	2006.	1.23	10	469.	
2896.73	2896.73	0.	295.	852.	0.15	8	2897.10	
8.93	0.0	0.0	11.15	2.36	6.54	2897.96	2896.10	
0.013559	0.049	0.110	0.050	0.120	0.07	-0.00	205.45	
	2887.80	540.	540.	540.	22.	447.	674.00	240.

*SECNO 1.660

*** GR CARDS REPEATED

3280 CROSS SECTION 1.66 EXTENDED 1.72 FEET

ALLEN CREEK		500 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1.66	5300.	0.	3237.	2063.	1.14	20	469.	
2900.01	2900.01	0.	299.	886.	-0.09	5	2900.30	
9.02	0.0	0.0	10.82	2.33	1.31	2901.16	2899.30	
0.012613	0.049	0.110	0.050	0.120	0.01	-0.00	205.35	
	2891.00	100.	100.	100.	22.	447.	674.00	243.

*SECNO 1.660

3280 CROSS SECTION 1.66 EXTENDED 2.71 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		500 YEAR FLOOD			08/01/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3370 NORMAL BRIDGE,NRD= 6 MIN ELT= 2899.50 MAX ELLC= 2899.20

1.66	5300.	1.	1558.	3741.	0.25	5	480.	
2901.01	0.0	3.	269.	1279.	-0.90	0	2900.70	
10.51	0.0	0.50	5.79	2.92	0.01	2901.26	2900.60	

606

0.012333 0.049 0.110 0.050 0.120 0.09 -54.26 193.81
 2890.50 1. 1. 1. 35. 446. 674.00 243.

*SECNO 1.660

*** GR CARDS REPEATED

3280 CROSS SECTION 1.66 EXTENDED 3.09 FEET

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2899.50 MAX ELLC= 2899.20

1.66 5300. 9. 1437. 3854. 0.19 0 500.
 2901.39 0.0 13. 282. 1439. -0.06 0 2900.70
 10.89 0.0 0.68 5.09 2.68 0.31 2901.58 2900.60
 0.008961 0.049 0.110 0.050 0.120 0.01 -54.26 174.32
 2890.50 30. 30. 30. 54. 446. 674.00 244.

*SECNO 1.660

3280 CROSS SECTION 1.66 EXTENDED 2.97 FEET

1.66 5300. 7. 2600. 2692. 0.44 2 495.
 2901.27 0.0 12. 356. 1420. 0.25 0 2900.30
 10.27 0.0 0.59 7.31 1.90 0.01 2901.71 2899.30
 0.004627 0.049 0.110 0.050 0.120 0.12 -0.00 178.51
 2891.00 1. 1. 1. 49. 447. 674.00 244.

*SECNO 1.660

*** GR CARDS REPEATED

3280 CROSS SECTION 1.66 EXTENDED 3.04 FEET

1.66 5300. 9. 2575. 2716. 0.42 0 499.
 2901.34 0.0 14. 359. 1448. -0.02 0 2900.30
 10.34 0.0 0.61 7.18 1.88 0.05 2901.75 2899.30
 0.004410 0.049 0.110 0.050 0.120 0.00 0.0 175.27
 2891.00 10. 10. 10. 52. 447. 674.00 244.

*SECNO 1.780

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK

500 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRISWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	GLOSS	CORAR	SSTA
	ELMIN	XLOBL	XLCH	X ¹ .OBR	WSDL	WSDR	ENDST
							VOL

3685 20 TRIALS ATTEMPTED WSEL, CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

1.78 5300. 0. 3658. 1642. 1.20 20 511.
 2912.96 2912.96 0. 349. 717. 0.78 9 2914.00

H06

9.06	0.0	0.0	10.47	2.29	4.34	2914.16	2912.50	
0.013953	0.049	0.110	0.050	0.120	0.39	-0.00	443.82	
	2903.90	600.	600.	600.	29.	482.	954.75	264.

*SECNO 1.780

*** GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		500 YEAR FLOOD			08/01/81		TOPWID	
Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	LEFT/RIGHT	
Q	ALOB	ACH	AROB	DHV	IDC	EG	SSTA	
WSELK	VLOB	VCH	VROB	HL	EG	CORAR	SSTA	
WTN	XNL	XNCH	XNR	OLOSS	CORAR	WSDR	ENDST	VOL
ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST		
1.78	5300.	0.	2970.	2330.	0.45	3	681.	
2914.10	0.0	0.	421.	1320.	-0.75	0	2914.00	
10.20	0.0	0.13	7.05	1.77	0.33	2914.56	2912.50	
0.005316	0.049	0.110	0.050	0.120	0.07	-0.00	436.25	
	2903.90	40.	40.	40.	36.	645.	1117.13	265.

*SECNO 1.780

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2912.50 MAX ELLC= 2912.00

1.78	5300.	48.	1244.	4008.	0.17	2	724.	
2914.42	0.0	42.	251.	1520.	-0.28	0	2912.00	
10.52	0.0	1.16	4.95	2.64	0.01	2914.59	2912.50	
0.010584	0.049	0.110	0.050	0.120	0.03	-94.27	407.86	
	2903.90	1.	1.	1.	77.	647.	1131.66	266.

*SECNO 1.780

*** GR CARDS REPEATED

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2912.50 MAX ELLC= 2912.00

1.78	5300.	68.	1096.	4136.	0.13	2	748.	
2914.74	0.0	60.	254.	1716.	-0.04	0	2912.00	
10.84	0.0	1.13	4.32	2.41	0.27	2914.87	2912.50	
0.007984	0.049	0.110	0.050	0.120	0.00	-106.09	396.93	
	2903.90	30.	30.	30.	88.	660.	1145.19	267.

*SECNO 1.780

3265 DIVIDED FLOW

1.78	5300.	159.	2752.	2389.	0.46	2	582.	
2914.58	0.0	86.	375.	1268.	0.33	0	2908.00	
10.88	0.0	1.85	7.33	1.88	0.01	2915.04	2912.50	
0.004888	0.049	0.120	0.055	0.120	0.16	-0.00	416.75	
	2903.70	1.	1.	1.	67.	655.	1138.32	267.

*SECNO 1.780

3265 DIVIDED FLOW

1.78	5300.	163.	2723.	2414.	0.44	0	581.	
2914.65	0.0	91.	378.	1299.	-0.02	0	2908.00	
10.95	0.0	1.79	7.20	1.86	0.05	2915.09	2912.50	
0.004671	0.049	0.120	0.055	0.120	0.00	-0.00	420.00	
	2903.70	10.	10.	10.	64.	658.	1141.06	267.

*SECNO 1.940

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.94	5200.	575.	3417.	1208.	1.12	20	689.	
2930.97	2930.97	243.	330.	581.	0.68	15	2928.40	
8.77	0.0	2.37	10.34	2.08	5.37	2932.08	2928.50	
0.012044	0.049	0.120	0.055	0.120	0.34	-0.00	362.36	
	2922.20	760.	760.	760.	267.	549.	1177.55	293.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2930.69 ,NOT 2930.97
 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	37.20	0.01	137.50	0.0
	ELCHU	ELCHD						
	2922.50	2922.50						

*SECNO 1.940

*** GR CARDS REPEATED

6870 D.S. ENERGY OF 2932.08 HIGHER THAN COMPUTED ENERGY OF 2931.37

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2966.50	2932.33	0.0	4648.	553.	138.	138.	2926.20

ELTRD
 2926.90

J06

1.94	5200.	598.	3302.	1301.	0.97	3	708.	
2931.11	0.0	265.	337.	656.	-0.14	0	2928.40	
8.91	0.0	2.25	9.81	1.98	0.0	2932.08	2928.50	
0.010562	0.049	0.120	0.055	0.120	0.0	-0.00	355.00	
	2922.20	30.	30.	30.	274.	560.	1188.73	294.

*SECNO 1.940

3265 DIVIDED FLOW

1.94	5200.	617.	3042.	1541.	0.70	4	735.	
2931.50	0.0	333.	353.	853.	-0.28	0	2928.40	
9.30	0.0	1.85	8.63	1.81	0.09	2932.20	2928.50	
0.007684	0.049	0.120	0.055	0.120	0.03	-0.00	365.00	
	2922.20	10.	10.	10.	264.	567.	1195.98	294.

*SECNO 1.980

3265 DIVIDED FLOW

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTI	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

1.98	5200.	110.	2730.	2360.	0.97	20	616.	
2935.24	2935.24	60.	255.	1046.	0.27	12	2931.50	
10.84	0.0	1.81	10.69	2.26	1.76	2936.20	2932.00	
0.012864	0.049	0.120	0.055	0.120	0.14	-0.00	372.67	
	2924.40	180.	180.	180.	60.	581.	1013.99	300.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.40	0.01	165.00	0.0
	ELCHU	ELCHD						
	2924.40	2924.40						

*SECNO 1.980

PRESS FLOW BECAUSE EGLWC OF 2936.21 EXCEEDS 1.5 DEPTH
 6870 D.S. ENERGY OF 2936.20 HIGHER THAN COMPUTED ENERGY OF 2935.55

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2959.91	2936.21	0.00	4626.	585.	165.	167.	2932.20

K06

ELTRD
2931.70

1.98	5200.	116.	2605.	2478.	0.82	2	619.	
2935.39	0.0	67.	260.	1133.	-0.15	0	2931.50	
10.99	0.0	1.74	10.01	2.19	0.0	2936.20	2932.00	
0.011006	0.049	0.120	0.055	0.120	0.0	-0.00	370.50	
	2924.40	30.	30.	30.	62.	581.	1014.44	301.

*SECNO 1.980

*** GR CARDS REPEATED

3265 DIVIDED FLOW

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
1.98	5200.	133.	2379.	2688.	0.59	3	626.	
2935.74	0.0	84.	270.	1313.	-0.23	0	2931.50	
11.34	0.0	1.59	8.81	2.05	0.09	2936.32	2932.00	
0.008096	0.049	0.120	0.055	0.120	0.02	-0.00	364.72	
	2924.40	10.	10.	10.	68.	582.	1015.36	301.

*SECNO 2.130

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		500 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

2.13	5200.	0.	3994.	1206.	1.52	20	290.	
2950.92	2950.92	0.	357.	458.	0.93	19	2951.20	
7.92	0.0	0.0	11.19	2.63	8.41	2952.44	2951.00	
0.015065	0.049	0.080	0.050	0.120	0.47	-0.00	336.68	
	2943.00	780.	780.	780.	31.	300.	668.00	323.

THIS RUN EXECUTED 08/01/81 8:23:10

 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979
 ERROR CORR - 01.02.03
 MODIFICATION - 50,51,52,53,54

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER
 INDICATES MESSAGE IN SUMMARY OF ERRORS LIST/

 ALLEN CREEK

SUMMARY PRINTOUT TABLE 150

SECTNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIMS	EG	10K*S	VCH	AREA	.01K
0.020	0.	0.0	0.0	2734.5	1800.0	2740.13	0.0	2740.85	119.71	7.50	395.95	164.52
0.020	0.	0.0	0.0	2734.5	3000.0	2741.19	0.0	2742.04	118.17	8.63	613.08	275.98
0.020	0.	0.0	0.0	2734.5	3700.0	2741.69	0.0	2742.62	120.10	9.24	714.46	337.62
0.020	0.	0.0	0.0	2734.5	5400.0	2742.77	0.0	2743.87	120.38	10.39	938.32	492.17
0.080	280.	0.0	0.0	2738.7	1800.0	2744.22	0.0	2745.80	229.80	10.06	178.84	118.74
0.080	280.	0.0	0.0	2738.7	3000.0	2745.35	0.0	2748.15	322.29	13.41	223.72	167.11
0.080	280.	0.0	0.0	2738.7	3700.0	2746.16	0.0	2749.40	327.21	14.46	255.88	204.55
0.080	280.	0.0	0.0	2738.7	5400.0	2748.01	0.0	2752.17	327.78	16.36	330.13	298.26
0.160	400.	0.0	0.0	2744.0	1800.0	2751.20	0.0	2753.24	145.34	11.46	157.04	149.31
0.160	400.	0.0	0.0	2744.0	3000.0	2753.38	0.0	2755.85	127.07	12.62	238.79	266.13
0.160	400.	0.0	0.0	2744.0	3700.0	2754.36	0.0	2757.08	124.65	13.26	282.72	331.40
0.160	400.	0.0	0.0	2744.0	5400.0	2757.33	0.0	2759.30	73.46	11.76	732.48	630.05
0.160	40.	0.0	0.0	2744.0	1800.0	2752.51	0.0	2753.72	71.77	8.84	203.78	212.47
0.160	40.	0.0	0.0	2744.0	3000.0	2754.69	0.0	2756.31	71.37	10.22	298.42	355.12
0.160	40.	0.0	0.0	2744.0	3700.0	2755.76	0.0	2757.54	70.65	10.76	360.72	440.20
0.160	40.	0.0	0.0	2744.0	5400.0	2758.59	0.0	2759.59	35.91	8.92	1195.71	901.13
0.160	1.	2759.5	2760.5	2744.0	1800.0	2752.42	0.0	2753.84	175.54	9.56	188.34	135.86
0.160	1.	2759.5	2760.5	2744.0	3000.0	2754.59	0.0	2756.43	207.68	10.89	275.43	208.17
0.160	1.	2759.5	2760.5	2744.0	3700.0	2755.67	0.0	2757.66	215.16	11.32	326.99	252.24
0.160	1.	2759.5	2760.5	2744.0	5400.0	2758.29	0.0	2759.91	205.18	10.38	596.67	376.99
0.160	30.	2759.5	2760.5	2744.0	1800.0	2753.27	0.0	2754.31	121.58	8.17	220.27	163.24
0.160	30.	2759.5	2760.5	2744.0	3000.0	2755.70	0.0	2756.99	140.12	9.14	328.36	253.44
0.160	30.	2759.5	2760.5	2744.0	3700.0	2756.84	0.0	2758.24	143.60	9.50	392.66	308.76
0.160	30.	2759.5	2760.5	2744.0	5400.0	2759.63	0.0	2760.44	113.36	7.60	916.30	507.17
0.160	1.	0.0	0.0	2744.0	1800.0	2753.48	0.0	2754.33	43.41	7.43	247.37	273.20
0.160	1.	0.0	0.0	2744.0	3000.0	2756.02	0.0	2757.03	39.97	8.20	438.05	474.53
0.160	1.	0.0	0.0	2744.0	3700.0	2757.58	0.0	2758.31	28.20	7.36	893.07	696.79
0.160	1.	0.0	0.0	2744.0	5400.0	2760.05	0.0	2760.48	14.86	6.35	1936.00	1401.02
0.160	10.	0.0	0.0	2744.0	1800.0	2753.56	0.0	2754.39	79.01	7.32	251.39	202.50
0.160	10.	0.0	0.0	2744.0	3000.0	2756.14	0.0	2757.09	70.88	7.99	462.27	356.33
0.160	10.	0.0	0.0	2744.0	3700.0	2757.79	0.0	2758.36	43.49	6.70	972.76	561.09

M06

0.160	10.	0.0	0.0	2744.0	5400.0	2760.20	0.0	2760.51	21.37	5.59	2006.39	1168.02
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A07

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
*	0.280	640.	0.0	0.0	2759.2	1800.0	2764.96	2764.96	2766.71	194.58	11.16	213.84	129.04
*	0.280	640.	0.0	0.0	2759.2	3000.0	2766.53	2766.53	2768.66	182.54	12.61	340.71	222.04
*	0.280	640.	0.0	0.0	2759.2	3700.0	2767.26	2767.26	2769.58	180.06	13.29	410.19	275.74
*	0.280	640.	0.0	0.0	2759.2	5400.0	2768.66	2768.66	2771.43	183.97	14.81	561.20	398.13
	0.280	40.	0.0	0.0	2759.2	1800.0	2765.66	0.0	2767.40	151.17	10.59	169.92	146.40
*	0.280	40.	0.0	0.0	2759.2	3000.0	2767.03	2767.03	2769.85	191.78	13.47	222.64	216.63
*	0.280	40.	0.0	0.0	2759.2	3700.0	2767.96	2767.96	2771.08	185.29	14.19	260.80	271.82
	0.280	40.	0.0	0.0	2759.2	5400.0	2771.43	0.0	2771.89	27.94	7.23	2273.69	1021.63
	0.280	30.	2770.0	2769.6	2759.2	1800.0	2765.66	0.0	2767.40	147.95	10.03	179.46	147.98
	0.280	30.	2770.0	2769.6	2759.2	3000.0	2767.04	0.0	2769.85	185.56	12.82	234.03	220.23
	0.280	30.	2770.0	2769.6	2759.2	3700.0	2766.71	0.0	2771.08	337.02	16.78	220.48	201.55
*	0.280	30.	2770.0	2769.6	2759.2	5400.0	2771.64	2771.64	2772.52	51.41	8.89	1714.57	753.14
	0.280	10.	0.0	0.0	2759.2	1800.0	2766.39	0.0	2767.56	95.36	8.67	207.68	184.33
	0.280	10.	0.0	0.0	2759.2	3000.0	2768.41	0.0	2770.07	98.41	10.34	290.24	302.41
	0.280	10.	0.0	0.0	2759.2	3700.0	2769.72	2767.64	2771.50	90.15	10.71	345.60	389.69
	0.280	10.	0.0	0.0	2759.2	5400.0	2771.69	2771.53	2772.57	50.96	8.87	1773.40	756.42
*	0.370	410.	0.0	0.0	2769.0	1800.0	2774.14	2774.14	2776.01	206.57	10.96	164.16	125.24
*	0.370	410.	0.0	0.0	2769.0	3000.0	2776.48	2776.48	2778.11	119.03	10.41	374.40	274.97
*	0.370	410.	0.0	0.0	2769.0	3700.0	2777.48	2777.48	2778.70	85.49	9.54	722.65	400.18
*	0.370	410.	0.0	0.0	2769.0	5400.0	2778.44	2778.44	2779.54	75.46	9.91	1341.79	621.64
*	0.510	720.	0.0	0.0	2782.7	1800.0	2789.37	2789.37	2790.09	113.16	7.66	447.92	169.21
*	0.510	720.	0.0	0.0	2782.7	3000.0	2790.12	2790.12	2790.80	114.95	8.41	816.40	279.81
*	0.510	720.	0.0	0.0	2782.7	3700.0	2790.35	2790.35	2791.10	127.06	9.11	975.41	328.25
*	0.510	720.	0.0	0.0	2782.7	5400.0	2790.82	2790.82	2791.64	145.59	10.28	1364.26	447.53
*	0.530	65.	0.0	0.0	2785.5	1800.0	2792.13	2792.13	2792.89	119.16	7.83	432.38	164.89
*	0.530	65.	0.0	0.0	2785.5	3000.0	2792.81	2792.81	2793.60	133.06	8.93	756.15	260.08
*	0.530	65.	0.0	0.0	2785.5	3700.0	2793.14	2793.14	2793.90	128.37	9.14	969.66	326.56
*	0.530	65.	0.0	0.0	2785.5	5400.0	2793.69	2793.69	2794.43	131.84	9.86	1437.79	470.30
	0.530	40.	0.0	0.0	2785.5	1800.0	2792.96	0.0	2793.19	38.92	4.92	842.14	288.52
	0.530	40.	0.0	0.0	2785.5	3000.0	2793.71	0.0	2793.93	39.91	5.43	1452.48	474.89
	0.530	40.	0.0	0.0	2785.5	3700.0	2793.99	0.0	2794.22	41.77	5.73	1742.12	572.49
	0.530	40.	0.0	0.0	2785.5	5400.0	2794.52	0.0	2794.77	47.18	6.42	2279.72	786.18
*	0.530	30.	2790.8	2790.3	2785.5	1800.0	2792.96	0.0	2793.19	38.62	4.91	845.09	289.53
*	0.530	30.	2790.8	2790.3	2785.5	3000.0	2793.71	0.0	2793.93	39.66	5.42	1457.13	476.37
*	0.530	30.	2790.8	2790.3	2785.5	3700.0	2793.99	0.0	2794.22	41.53	5.72	1746.60	574.12
*	0.530	30.	2790.8	2790.3	2785.5	5400.0	2794.52	0.0	2794.77	46.94	6.41	2284.29	788.18
	0.530	10.	0.0	0.0	2785.5	1800.0	2793.01	0.0	2793.23	37.55	4.86	835.84	293.75
	0.530	10.	0.0	0.0	2785.5	3000.0	2793.74	0.0	2793.97	39.90	5.46	1419.43	474.92
	0.530	10.	0.0	0.0	2785.5	3700.0	2794.03	0.0	2794.27	42.20	5.79	1693.65	569.55
	0.530	10.	0.0	0.0	2785.5	5400.0	2794.56	0.0	2794.83	48.39	6.53	2204.37	776.30
*	0.690	900.	0.0	0.0	2800.5	1800.0	2805.87	2805.87	2807.97	264.31	11.64	154.67	110.72
*	0.690	900.	0.0	0.0	2800.5	3000.0	2809.00	2809.00	2810.42	106.58	9.96	453.57	290.60
*	0.690	900.	0.0	0.0	2800.5	3700.0	2809.59	2809.59	2811.00	103.20	10.35	627.39	364.21
*	0.690	900.	0.0	0.0	2800.5	5400.0	2810.55	2810.55	2812.05	108.27	11.48	938.32	518.96

B07

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K+S	VCH	AREA	.01K
	0.730	130.	0.0	0.0	2802.0	1800.0	2808.97	0.0	2810.05	98.25	8.32	218.91	181.59
*	0.730	130.	0.0	0.0	2802.0	3000.0	2810.50	2810.50	2811.92	106.42	9.96	454.09	290.81
*	0.730	130.	0.0	0.0	2802.0	3700.0	2811.11	2811.11	2812.50	101.51	10.29	634.04	367.23
*	0.730	130.	0.0	0.0	2802.0	5400.0	2812.02	2812.02	2813.55	110.20	11.56	929.81	514.39
	0.730	1.	2809.2	2808.7	2801.5	1800.0	2808.56	0.0	2810.49	364.77	11.12	161.83	94.25
	0.730	1.	2809.2	2808.7	2801.5	3000.0	2811.71	2811.11	2812.05	172.89	6.18	798.20	228.16
	0.730	1.	2809.2	2808.7	2801.5	3700.0	2812.36	2811.34	2812.62	125.93	5.58	1049.60	329.72
	0.730	1.	2809.2	2808.7	2801.5	5400.0	2813.45	0.0	2813.69	97.51	5.33	1490.39	546.85
	0.730	20.	2809.2	2808.7	2801.5	1800.0	2809.47	2807.89	2811.35	513.60	11.01	167.49	79.43
	0.730	20.	2809.2	2808.7	2801.5	3000.0	2812.11	0.0	2812.33	108.80	5.08	949.66	287.61
	0.730	20.	2809.2	2808.7	2801.5	3700.0	2812.64	0.0	2812.85	95.87	4.98	1158.25	377.88
	0.730	20.	2809.2	2808.7	2801.5	5400.0	2813.67	0.0	2813.87	81.82	4.96	1579.15	596.99
	0.730	1.	0.0	0.0	2802.0	1800.0	2811.22	0.0	2811.51	21.58	4.79	702.23	387.45
	0.730	1.	0.0	0.0	2802.0	3000.0	2812.01	0.0	2812.44	32.43	6.26	991.82	526.79
	0.730	1.	0.0	0.0	2802.0	3700.0	2812.52	0.0	2812.98	34.00	6.67	1191.99	634.51
	0.730	1.	0.0	0.0	2802.0	5400.0	2813.52	0.0	2814.03	36.78	7.45	1605.24	890.41
	0.730	10.	0.0	0.0	2802.0	1800.0	2811.25	0.0	2811.54	20.91	4.73	716.17	393.64
	0.730	10.	0.0	0.0	2802.0	3000.0	2812.06	0.0	2812.48	30.96	6.15	1015.72	539.21
	0.730	10.	0.0	0.0	2802.0	3700.0	2812.57	0.0	2813.01	32.52	6.56	1217.63	648.87
	0.730	10.	0.0	0.0	2802.0	5400.0	2813.58	0.0	2814.06	35.45	7.34	1629.56	906.97
	0.760	200.	0.0	0.0	2803.5	1800.0	2811.69	0.0	2812.31	48.00	6.48	372.17	259.81
	0.760	200.	0.0	0.0	2803.5	3000.0	2812.71	0.0	2813.48	58.25	7.85	697.09	393.08
	0.760	200.	0.0	0.0	2803.5	3700.0	2813.26	0.0	2814.00	56.05	8.08	899.58	494.20
	0.760	200.	0.0	0.0	2803.5	5400.0	2814.33	0.0	2815.04	53.67	8.58	1318.40	737.09
*	0.840	440.	0.0	0.0	2810.5	1800.0	2815.35	2815.35	2817.36	279.11	11.37	158.25	107.74
*	0.840	440.	0.0	0.0	2810.5	3000.0	2816.92	2816.92	2819.80	281.83	13.62	220.25	178.70
*	0.840	440.	0.0	0.0	2810.5	3700.0	2819.42	2819.42	2820.58	88.15	9.49	678.72	394.08
*	0.840	440.	0.0	0.0	2810.5	5400.0	2820.20	2820.20	2821.56	103.70	10.96	944.99	530.29
	0.840	30.	2817.0	2818.0	2810.5	1800.0	2815.54	0.0	2817.37	240.86	10.84	165.98	115.98
*	0.840	30.	2817.0	2818.0	2810.5	3000.0	2816.82	0.0	2819.80	296.95	13.86	216.48	174.09
	0.840	30.	2817.0	2818.0	2810.5	3700.0	2819.48	0.0	2820.58	83.65	9.30	700.80	404.55
	0.840	30.	2817.0	2818.0	2810.5	5400.0	2820.42	0.0	2821.56	87.80	10.25	1030.99	576.28
	0.840	10.	0.0	0.0	2810.5	1800.0	2816.27	0.0	2817.61	149.02	9.27	194.08	147.45
	0.840	10.	0.0	0.0	2810.5	3000.0	2819.28	0.0	2820.13	64.57	8.03	633.92	373.35
	0.840	10.	0.0	0.0	2810.5	3700.0	2819.84	0.0	2820.68	64.08	8.37	816.46	462.22
	0.840	10.	0.0	0.0	2810.5	5400.0	2820.82	0.0	2821.67	65.26	9.09	1210.22	668.47
	0.900	250.	0.0	0.0	2813.7	1800.0	2819.81	0.0	2820.97	121.02	8.66	207.80	163.62
*	0.900	250.	0.0	0.0	2813.7	3000.0	2821.42	2821.42	2823.17	140.35	10.75	333.33	253.23
*	0.900	250.	0.0	0.0	2813.7	3700.0	2822.49	2822.49	2823.77	97.95	9.89	634.95	373.86
*	0.900	250.	0.0	0.0	2813.7	5400.0	2823.39	2823.39	2824.76	104.52	10.99	941.06	528.18
	0.980	430.	0.0	0.0	2821.4	1780.0	2826.47	0.0	2828.02	220.57	9.97	178.58	119.85
	0.980	430.	0.0	0.0	2821.4	2940.0	2828.23	0.0	2830.15	185.44	11.11	264.68	215.89
*	0.980	430.	0.0	0.0	2821.4	3650.0	2828.42	2828.42	2831.17	258.12	13.32	273.99	227.19
*	0.980	430.	0.0	0.0	2821.4	5300.0	2831.08	2831.08	2832.90	115.14	11.47	676.05	493.92

C07

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K+S	VCH	AREA	.01K
1.050	380.	0.0	0.0	2828.8	1780.0	2834.16	0.0	2835.49	175.48	9.24	192.62	134.37
1.050	380.	0.0	0.0	2828.8	2940.0	2835.50	0.0	2837.52	200.07	11.40	257.96	207.85
1.050	380.	0.0	0.0	2828.8	3650.0	2836.74	0.0	2838.73	154.88	11.33	332.07	293.29
*	1.050	380.	0.0	2828.8	5300.0	2838.48	2838.48	2840.30	115.05	11.47	676.44	494.13
1.120	750.	0.0	0.0	2835.6	1780.0	2841.59	0.0	2842.07	51.49	5.57	319.60	248.05
1.120	750.	0.0	0.0	2835.6	2940.0	2843.40	0.0	2844.03	46.76	6.40	496.77	429.93
1.120	750.	0.0	0.0	2835.6	3650.0	2844.04	0.0	2844.74	47.35	6.89	687.45	530.43
1.120	750.	0.0	0.0	2835.6	5300.0	2845.02	0.0	2845.82	49.45	7.73	1104.52	753.65
*	1.320	1000.	0.0	2856.0	1780.0	2860.07	2860.07	2861.79	275.03	10.56	172.25	107.33
*	1.320	1000.	0.0	2856.0	2940.0	2862.18	2862.18	2863.51	140.92	9.81	442.23	247.66
*	1.320	1000.	0.0	2856.0	3650.0	2863.01	2863.01	2863.97	101.28	9.02	748.49	362.69
*	1.320	1000.	0.0	2856.0	5300.0	2863.02	2863.82	2864.70	96.38	9.43	1172.74	539.86
1.440	600.	0.0	0.0	2867.6	1780.0	2873.31	0.0	2874.82	175.20	9.85	180.62	134.48
*	1.440	600.	0.0	2867.6	2940.0	2874.35	2874.35	2876.99	253.67	13.04	225.42	184.59
*	1.440	600.	0.0	2867.6	3650.0	2876.52	2876.52	2877.44	80.33	8.68	808.21	407.24
*	1.440	600.	0.0	2867.6	5300.0	2877.17	2877.17	2878.10	84.82	9.50	1211.44	575.49
1.440	30.	2875.9	2874.6	2867.6	1780.0	2873.31	0.0	2874.82	174.94	9.85	180.72	134.58
1.440	30.	2875.9	2874.6	2867.6	2940.0	2874.27	0.0	2876.99	264.11	13.23	222.25	180.91
1.440	30.	2875.9	2874.6	2867.6	3650.0	2876.68	0.0	2877.44	66.75	8.05	914.50	446.77
1.440	30.	2875.9	2874.6	2867.6	5300.0	2877.29	0.0	2878.10	74.11	8.99	1294.24	615.66
1.440	10.	0.0	0.0	2867.6	1780.0	2873.77	0.0	2875.00	131.14	8.91	199.81	155.44
*	1.440	10.	0.0	2867.6	2940.0	2876.95	2874.43	2877.30	35.88	5.69	1060.08	490.84
1.440	10.	0.0	0.0	2867.6	3650.0	2877.03	0.0	2877.53	50.83	6.83	1107.39	511.95
1.440	10.	0.0	0.0	2867.6	5300.0	2877.65	0.0	2878.19	56.16	7.64	1497.35	707.25
*	1.530	480.	0.0	2877.6	1780.0	2882.73	2882.73	2884.35	250.16	10.26	180.59	112.54
*	1.530	480.	0.0	2877.6	2940.0	2884.65	2884.65	2885.81	119.11	9.32	562.86	269.39
*	1.530	480.	0.0	2877.6	3650.0	2885.29	2885.29	2886.28	98.67	9.09	862.32	367.45
*	1.530	480.	0.0	2877.6	5300.0	2886.00	2886.00	2887.09	108.71	10.20	1219.29	508.32
1.640	540.	0.0	0.0	2887.8	1780.0	2893.90	0.0	2895.46	172.04	10.05	177.19	135.71
*	1.640	540.	0.0	2887.8	2940.0	2895.92	2895.92	2896.78	89.94	8.51	769.19	310.01
*	1.640	540.	0.0	2887.8	3650.0	2896.14	2896.14	2897.19	112.36	9.66	870.03	344.35
*	1.640	540.	0.0	2887.8	5300.0	2896.73	2896.73	2897.96	135.59	11.15	1147.44	455.17
*	1.660	100.	0.0	2891.0	1780.0	2896.41	2896.41	2898.54	267.02	11.71	152.00	108.93
*	1.660	100.	0.0	2891.0	2940.0	2899.06	2899.06	2899.97	95.31	8.73	741.75	301.14
*	1.660	100.	0.0	2891.0	3650.0	2899.37	2899.37	2900.38	109.47	9.55	882.28	348.85
*	1.660	100.	0.0	2891.0	5300.0	2900.01	2900.01	2901.16	126.13	10.82	1185.57	471.91
1.660	1.	2899.5	2899.2	2890.5	1780.0	2897.38	2895.95	2898.64	119.51	9.04	202.14	162.82
1.660	1.	2899.5	2899.2	2890.5	2940.0	2899.70	0.0	2900.04	109.10	6.28	966.60	281.48
1.660	1.	2899.5	2899.2	2890.5	3650.0	2900.21	0.0	2900.47	116.98	5.85	1180.68	337.46
1.660	1.	2899.5	2899.2	2890.5	5300.0	2901.01	0.0	2901.26	123.33	5.79	1551.21	477.25
1.660	30.	2899.5	2899.2	2890.5	1780.0	2898.21	2895.95	2898.99	82.19	7.33	383.72	196.35
1.660	30.	2899.5	2899.2	2890.5	2940.0	2900.15	0.0	2900.33	78.77	4.84	1160.06	331.25
1.660	30.	2899.5	2899.2	2890.5	3650.0	2900.61	0.0	2900.78	84.00	4.68	1363.20	398.26
1.660	30.	2899.5	2899.2	2890.5	5300.0	2901.39	0.0	2901.58	89.61	5.09	1734.04	559.89

D07

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K	
1.660	1.	0.0	0.0	2891.0	1780.0	2898.21	2876.40	2899.01	78.35	7.45	381.34	201.09	
1.660	1.	0.0	0.0	2891.0	2940.0	2900.08	0.0	2900.41	36.58	5.86	1217.44	486.09	
1.660	1.	0.0	0.0	2891.0	3650.0	2900.52	0.0	2900.88	38.86	6.27	1424.95	585.55	
1.660	1.	0.0	0.0	2891.0	5300.0	2901.27	0.0	2901.71	46.27	7.31	1787.38	779.19	
1.660	10.	0.0	0.0	2891.0	1780.0	2898.46	2896.43	2899.10	62.71	6.78	477.86	224.77	
1.660	10.	0.0	0.0	2891.0	2940.0	2900.14	0.0	2900.45	34.82	5.74	1244.24	498.23	
1.660	10.	0.0	0.0	2891.0	3350.0	2900.58	0.0	2900.92	36.98	6.15	1453.90	600.24	
1.660	10.	0.0	0.0	2891.0	5300.0	2901.34	0.0	2901.75	44.10	7.18	1820.94	798.09	
*	1.780	600.	0.0	2903.9	1780.0	2909.04	2909.04	2911.07	275.09	11.44	155.58	107.32	
*	1.780	600.	0.0	2903.9	2940.0	2911.44	2911.44	2912.80	146.31	9.90	470.81	243.06	
*	1.780	600.	0.0	2903.9	3650.0	2912.20	2912.20	2913.34	128.78	9.56	709.40	321.63	
*	1.780	600.	0.0	2903.9	5300.0	2912.96	2912.96	2914.16	139.53	10.47	1066.19	448.69	
1.780	40.	0.0	0.0	2903.9	1780.0	2911.05	0.0	2911.71	71.52	6.77	378.88	210.48	
1.780	40.	0.0	0.0	2903.9	2940.0	2912.77	0.0	2913.21	50.77	6.22	972.50	412.63	
1.780	40.	0.0	0.0	2903.9	3650.0	2913.29	0.0	2913.71	50.00	6.42	1234.11	516.21	
1.780	40.	0.0	0.0	2903.9	5300.0	2914.10	0.0	2914.56	53.16	7.05	1741.59	726.92	
1.780	1.	2912.5	2912.0	2903.9	1780.0	2910.92	2909.45	2911.85	182.51	8.14	314.66	131.76	
1.780	1.	2912.5	2912.0	2903.9	2940.0	2913.00	0.0	2913.24	130.58	5.38	975.09	257.28	
1.780	1.	2912.5	2912.0	2903.9	3650.0	2913.54	0.0	2913.74	117.10	5.14	1247.17	337.30	
1.780	1.	2912.5	2912.0	2903.9	5300.0	2914.42	0.0	2914.59	105.84	4.95	1812.70	515.17	
1.780	30.	2912.5	2912.0	2903.9	1780.0	2911.85	0.0	2912.27	87.95	5.90	530.20	189.81	
1.780	30.	2912.5	2912.0	2903.9	2940.0	2913.41	0.0	2913.56	87.17	4.42	1173.50	314.89	
1.780	30.	2912.5	2912.0	2903.9	3650.0	2913.91	0.0	2914.04	82.57	4.34	1466.11	401.68	
1.780	30.	2912.5	2912.0	2903.9	5300.0	2914.74	0.0	2914.87	79.84	4.32	2029.83	593.13	
1.780	1.	0.0	0.0	2903.7	1780.0	2911.89	0.0	2912.28	42.12	5.53	593.33	274.27	
1.780	1.	0.0	0.0	2903.7	2940.0	2913.32	0.0	2913.67	38.32	5.85	1078.03	474.91	
1.780	1.	0.0	0.0	2903.7	3650.0	2913.79	0.0	2914.17	41.42	6.34	1293.10	567.11	
1.780	1.	0.0	0.0	2903.7	5300.0	2914.58	0.0	2915.04	48.88	7.33	1728.70	758.06	
1.780	10.	0.0	0.0	2903.7	1780.0	2911.95	0.0	2912.32	40.23	5.42	611.61	280.63	
1.780	10.	0.0	0.0	2903.7	2940.0	2913.37	0.0	2913.71	36.56	5.75	1103.24	486.22	
1.780	10.	0.0	0.0	2903.7	3650.0	2913.85	0.0	2914.21	39.57	6.22	1325.08	580.22	
1.780	10.	0.0	0.0	2903.7	5300.0	2914.65	0.0	2915.09	46.71	7.20	1768.04	775.44	
*	1.940	760.	0.0	2922.2	1750.0	2926.58	2926.58	2928.69	377.87	11.68	149.87	90.03	
*	1.940	760.	0.0	2922.2	2900.0	2929.00	2929.00	2930.53	180.99	10.47	402.91	215.56	
*	1.940	760.	0.0	2922.2	3600.0	2929.74	2929.74	2931.17	157.77	10.56	581.94	286.61	
*	1.940	760.	0.0	2922.2	5200.0	2930.97	2930.97	2932.08	120.44	10.34	1153.55	473.82	
*	1.940	30.	2926.9	2926.2	2922.2	2927.56	0.0	2928.85	186.22	9.16	209.03	128.24	
1.940	30.	2926.9	2926.2	2922.2	2900.0	2929.20	0.0	2930.53	154.13	9.88	446.21	233.59	
1.940	30.	2926.9	2926.2	2922.2	3600.0	2929.91	0.0	2931.17	137.33	10.03	638.79	307.20	
*	1.940	30.	2926.9	2926.2	2922.2	5200.0	2931.11	0.0	2932.08	105.62	9.81	1258.18	505.98
1.940	10.	0.0	0.0	2922.2	1750.0	2928.02	0.0	2929.03	135.70	8.18	247.28	150.23	
1.940	10.	0.0	0.0	2922.2	2900.0	2929.75	2929.04	2930.70	103.43	8.56	575.36	285.15	
1.940	10.	0.0	0.0	2922.2	3600.0	2930.44	2929.83	2931.32	92.53	8.65	836.43	374.24	
1.940	10.	0.0	0.0	2922.2	5200.0	2931.50	0.0	2932.20	76.84	8.63	1538.55	593.19	

E07

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K+S	VCH	AREA	.01K	
*	1.980	180.	0.0	0.0	2924.4	1750.0	2931.03	2931.03	2933.73	377.39	13.20	132.60	90.08
*	1.980	180.	0.0	0.0	2924.4	2900.0	2934.37	2934.37	2935.21	99.75	8.76	836.51	290.37
*	1.980	180.	0.0	0.0	2924.4	3600.0	2934.73	2934.73	2935.56	103.45	9.21	1054.57	353.94
*	1.980	180.	0.0	0.0	2924.4	5200.0	2935.24	2935.24	2936.20	128.64	10.69	1361.70	458.48
	1.980	30.	2931.7	2932.2	2924.4	1750.0	2931.21	0.0	2933.73	342.14	12.75	137.22	94.61
	1.980	30.	2931.7	2932.2	2924.4	2900.0	2934.50	0.0	2935.21	85.57	8.22	919.53	313.50
	1.980	30.	2931.7	2932.2	2924.4	3600.0	2934.83	0.0	2935.56	92.09	8.76	1120.66	375.14
	1.980	30.	2931.7	2932.2	2924.4	5200.0	2935.39	0.0	2936.20	110.06	10.01	1460.47	495.67
	1.980	10.	0.0	0.0	2924.4	1750.0	2932.86	2931.01	2934.08	142.48	9.05	248.12	146.61
	1.980	10.	0.0	0.0	2924.4	2900.0	2934.80	0.0	2935.30	62.91	7.22	1091.20	365.63
	1.980	10.	0.0	0.0	2924.4	3600.0	2935.14	0.0	2935.66	68.57	7.74	1295.51	434.73
	1.980	10.	0.0	0.0	2924.4	5200.0	2935.74	0.0	2936.32	80.96	8.81	1667.00	577.91
*	2.130	780.	0.0	0.0	2943.0	1750.0	2947.57	2947.57	2949.26	254.75	10.44	168.53	109.64
*	2.130	780.	0.0	0.0	2943.0	2900.0	2949.40	2949.40	2950.77	150.24	9.86	434.45	236.60
*	2.130	780.	0.0	0.0	2943.0	3600.0	2949.92	2949.92	2951.36	151.48	10.38	554.95	292.50
*	2.130	780.	0.0	0.0	2943.0	5200.0	2950.92	2950.92	2952.44	150.65	11.19	815.16	423.65

ALLEN CREEK

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
0.020	1800.	2740.1	0.0	0.0	0.0	202.60	0.0
0.020	3000.	2741.2	1.1	0.0	0.0	204.49	0.0
0.020	3700.	2741.7	0.5	0.0	0.0	205.31	0.0
0.020	5400.	2742.8	1.1	0.0	0.0	207.12	0.0
0.080	1800.	2744.2	0.0	4.1	0.0	40.00	280.00
0.080	3000.	2745.4	1.1	4.2	0.0	40.00	280.00
* 0.080	3700.	2746.2	0.8	4.5	0.0	40.00	280.00
* 0.080	5400.	2748.0	1.9	5.2	0.0	40.00	280.00
0.160	1800.	2751.2	0.0	7.0	0.0	33.82	400.00
0.160	3000.	2753.4	2.2	8.0	0.0	42.06	400.00
0.160	3700.	2754.4	1.0	8.2	0.0	47.15	400.00
* 0.160	5400.	2757.3	3.0	9.3	0.0	310.37	400.00
0.160	1800.	2752.5	0.0	1.3	0.0	38.43	40.00
0.160	3000.	2754.7	2.2	1.3	0.0	48.85	40.00
0.160	3700.	2755.8	1.1	1.4	0.0	110.29	40.00
0.160	5400.	2758.6	2.8	1.3	0.0	375.00	40.00
0.160	1800.	2752.4	0.0	-0.1	0.0	35.89	1.00
0.160	3000.	2754.6	2.2	-0.1	0.0	45.12	1.00
0.160	3700.	2755.7	1.1	-0.1	0.0	50.55	1.00
0.160	5400.	2758.3	2.6	-0.3	0.0	203.04	1.00
0.160	1800.	2753.3	0.0	0.9	0.0	38.97	30.00
0.160	3000.	2755.7	2.4	1.1	0.0	50.68	30.00
0.160	3700.	2756.8	1.1	1.2	0.0	76.06	30.00
0.160	5400.	2759.6	2.8	1.3	0.0	281.36	30.00
0.160	1800.	2753.5	0.0	0.2	0.0	49.60	1.00
0.160	3000.	2756.0	2.5	0.3	0.0	190.46	1.00
0.160	3700.	2757.6	1.6	0.7	0.0	356.57	1.00
0.160	5400.	2760.0	2.5	0.4	0.0	477.63	1.00
0.160	1800.	2753.6	0.0	0.1	0.0	50.49	10.00
0.160	3000.	2756.1	2.6	0.1	0.0	217.54	10.00
0.160	3700.	2757.8	1.7	0.2	0.0	372.79	10.00
0.160	5400.	2760.2	2.4	0.2	0.0	484.59	10.00
* 0.280	1800.	2765.0	0.0	11.4	0.0	71.44	640.00
* 0.280	3000.	2766.5	1.6	10.4	0.0	90.56	640.00
* 0.280	3700.	2767.3	0.7	9.5	0.0	99.48	640.00
* 0.280	5400.	2768.7	1.4	8.5	0.0	116.55	640.00
0.280	1800.	2765.7	0.0	0.7	0.0	36.64	40.00
* 0.280	3000.	2767.0	1.4	0.5	0.0	40.08	40.00
* 0.280	3700.	2768.0	0.9	0.7	0.0	42.39	40.00
0.280	5400.	2771.4	3.5	2.8	0.0	1216.98	40.00
0.280	1800.	2765.7	0.0	0.0	0.0	38.75	30.00
0.280	3000.	2767.0	1.4	0.0	0.0	40.25	30.00

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*	0.280	3700.	2766.7	-0.3	-1.2	0.0	39.88	30.00
	0.280	5400.	2771.6	4.9	0.2	0.0	1131.40	30.00

H07

SECNO	Q	CWSEL	DIFMSP	DIFMSX	DIFKUS	TOPMID	XLCH
0.280	1800.	2766.4	0.0	0.7	0.0	39.53	10.00
0.280	3000.	2768.4	2.0	1.4	0.0	41.74	10.00
0.280	3700.	2769.7	1.3	3.0	0.0	43.15	10.00
0.280	5400.	2771.7	2.0	0.1	0.0	1164.05	10.00
* 0.370	1800.	2774.1	0.0	7.8	0.0	44.72	410.00
* 0.370	3000.	2776.5	2.3	8.1	0.0	238.26	410.00
* 0.370	3700.	2777.5	1.0	7.8	0.0	479.71	410.00
* 0.370	5400.	2778.4	1.0	6.7	0.0	789.34	410.00
* 0.510	1800.	2789.4	0.0	15.2	0.0	391.62	720.00
* 0.510	3000.	2790.1	0.8	13.6	0.0	563.31	720.00
* 0.510	3700.	2790.4	0.2	12.9	0.0	754.46	720.00
* 0.510	5400.	2790.8	0.5	12.4	0.0	953.44	720.00
* 0.530	1800.	2792.1	0.0	2.8	0.0	385.71	65.00
* 0.530	3000.	2792.8	0.7	2.7	0.0	557.24	65.00
* 0.530	3700.	2793.1	0.3	2.8	0.0	751.43	65.00
* 0.530	5400.	2793.7	0.5	2.9	0.0	1002.08	65.00
0.530	1800.	2793.0	0.0	0.8	0.0	565.81	40.00
0.530	3000.	2793.7	0.7	0.9	0.0	1008.70	40.00
0.530	3700.	2794.0	0.3	0.8	0.0	1012.24	40.00
0.530	5400.	2794.5	0.5	0.8	0.0	1018.77	40.00
* 0.530	1800.	2793.0	0.0	0.0	0.0	566.12	30.00
* 0.530	3000.	2793.7	0.7	0.0	0.0	1008.76	30.00
* 0.530	3700.	2794.0	0.3	0.0	0.0	1012.30	30.00
0.530	5400.	2794.5	0.5	0.0	0.0	1018.84	30.00
0.530	1800.	2793.0	0.0	0.0	0.0	640.95	10.00
0.530	3000.	2793.7	0.7	0.0	0.0	949.22	10.00
0.530	3700.	2794.0	0.3	0.0	0.0	952.79	10.00
0.530	5400.	2794.6	0.5	0.0	0.0	959.37	10.00
* 0.690	1800.	2805.9	0.0	12.9	0.0	37.38	900.00
* 0.690	3000.	2809.0	3.1	15.3	0.0	284.70	900.00
* 0.690	3700.	2809.6	0.6	15.6	0.0	306.74	900.00
* 0.690	5400.	2810.5	1.0	16.0	0.0	342.64	900.00
* 0.730	1800.	2809.0	0.0	3.1	0.0	54.33	130.00
* 0.730	3000.	2810.5	1.5	1.5	0.0	284.77	130.00
* 0.730	3700.	2811.1	0.6	1.5	0.0	307.54	130.00
* 0.730	5400.	2812.0	0.9	1.5	0.0	341.70	130.00
0.730	1800.	2808.6	0.0	-0.4	0.0	28.00	1.00
0.730	3000.	2811.7	3.1	1.2	0.0	369.22	1.00
0.730	3700.	2812.4	0.7	1.3	0.0	394.07	1.00
0.730	5400.	2813.5	1.1	1.4	0.0	415.00	1.00
0.730	1800.	2809.5	0.0	0.9	0.0	80.50	20.00
0.730	3000.	2812.1	2.6	0.4	0.0	384.39	20.00
0.730	3700.	2812.6	0.5	0.3	0.0	404.35	20.00
0.730	5400.	2813.7	1.0	0.2	0.0	416.55	20.00

SECNO	Q	CHSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
0.730	1800.	2811.2	0.0	1.8	0.0	351.48	1.00
0.730	3000.	2812.0	0.8	-0.1	0.0	381.11	1.00
0.730	3700.	2812.5	0.5	-0.1	0.0	400.33	1.00
0.730	5400.	2813.5	1.0	-0.1	0.0	415.91	1.00
0.730	1800.	2811.3	0.0	0.0	0.0	352.96	10.00
0.730	3000.	2812.1	0.8	0.1	0.0	383.46	10.00
0.730	3700.	2812.6	0.5	0.1	0.0	402.72	10.00
0.730	5400.	2813.6	1.0	0.1	0.0	416.32	10.00
0.760	1800.	2811.7	0.0	0.4	0.0	245.68	200.00
0.760	3000.	2812.7	1.0	0.7	0.0	350.93	200.00
0.760	3700.	2813.3	0.6	0.7	0.0	371.94	200.00
0.760	5400.	2814.3	1.1	0.8	0.0	411.06	200.00
*	0.840	1800.	2815.4	0.0	3.7	39.34	440.00
*	0.840	3000.	2816.9	1.6	4.2	39.73	440.00
*	0.840	3700.	2819.4	2.5	6.2	325.68	440.00
*	0.840	5400.	2820.2	0.8	5.9	368.26	440.00
*	0.840	1800.	2815.5	0.0	0.2	39.39	30.00
*	0.840	3000.	2816.8	1.3	-0.1	39.71	30.00
*	0.840	3700.	2819.5	2.7	0.1	327.79	30.00
*	0.840	5400.	2820.4	0.9	0.2	414.72	30.00
0.840	1800.	2815.3	0.0	0.7	0.0	39.57	10.00
0.840	3000.	2819.3	3.0	2.5	0.0	321.35	10.00
0.840	3700.	2819.8	0.6	0.4	0.0	338.64	10.00
0.840	5400.	2820.8	1.0	0.4	0.0	486.35	10.00
0.900	1800.	2819.8	0.0	3.5	0.0	39.65	250.00
*	0.900	3000.	2821.4	1.6	2.1	210.50	250.00
*	0.900	3700.	2822.5	1.1	2.6	321.44	250.00
*	0.900	5400.	2823.4	0.9	2.6	366.52	250.00
0.980	1780.	2826.5	0.0	6.7	0.0	47.10	430.00
0.980	2940.	2828.2	1.8	6.8	0.0	50.49	430.00
*	0.980	3650.	2828.4	0.2	5.9	51.02	430.00
*	0.980	5300.	2831.1	2.7	7.7	255.13	430.00
1.050	1780.	2834.2	0.0	7.7	0.0	47.67	380.00
1.050	2940.	2835.5	1.3	7.3	0.0	50.23	380.00
1.050	3650.	2836.7	1.2	8.3	0.0	76.11	380.00
*	1.050	5300.	2838.5	1.7	7.4	255.17	380.00
1.120	1780.	2841.6	0.0	7.4	0.0	72.55	750.00
1.120	2940.	2843.4	1.8	7.9	0.0	237.10	750.00
1.120	3650.	2844.0	0.6	7.3	0.0	341.02	750.00
1.120	5300.	2845.0	1.0	6.5	0.0	448.51	750.00
*	1.320	1780.	2860.1	0.0	18.5	52.77	1000.00
*	1.320	2940.	2862.2	2.1	18.8	273.78	1000.00
*	1.320	3650.	2863.0	0.8	19.0	495.18	1000.00
*	1.320	5300.	2863.8	0.8	18.8	572.14	1000.00

J07

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1.440	1780.	2873.3	0.0	13.2	0.0	41.73	600.00
*	1.440	2940.	2874.3	1.0	12.2	44.64	600.00
*	1.440	3650.	2876.5	2.2	13.5	616.65	600.00
*	1.440	5300.	2877.2	0.6	13.3	626.09	600.00
1.440	1780.	2873.3	0.0	0.0	0.0	41.73	30.00
1.440	2940.	2874.3	1.0	-0.1	0.0	44.44	30.00
1.440	3650.	2876.7	2.4	0.2	0.0	619.15	30.00
1.440	5300.	2877.3	0.6	0.1	0.0	628.04	30.00
1.440	1780.	2873.8	0.0	0.5	0.0	43.00	10.00
*	1.440	2940.	2877.0	3.2	2.7	616.93	10.00
1.440	3650.	2877.0	0.1	0.3	0.0	618.04	10.00
1.440	5300.	2877.7	0.6	0.4	0.0	641.25	10.00
*	1.530	1780.	2882.7	0.0	9.0	75.30	480.00
*	1.530	2940.	2884.6	1.9	7.7	389.45	480.00
*	1.530	3650.	2885.3	0.6	8.3	502.90	480.00
*	1.530	5300.	2886.0	0.7	8.4	504.77	480.00
1.640	1780.	2893.9	0.0	11.2	0.0	37.99	540.00
*	1.640	2940.	2895.9	2.0	11.3	458.50	540.00
*	1.640	3650.	2896.1	0.2	10.8	467.82	540.00
*	1.640	5300.	2896.7	0.6	10.7	468.55	540.00
*	1.660	1780.	2896.4	0.0	2.5	36.21	100.00
*	1.660	2940.	2899.1	2.7	3.1	455.35	100.00
*	1.660	3650.	2899.4	0.3	3.2	467.85	100.00
*	1.660	5300.	2900.0	0.6	3.3	468.65	100.00
1.660	1780.	2897.4	0.0	1.0	0.0	76.95	1.00
1.660	2940.	2899.7	2.3	0.6	0.0	439.35	1.00
1.660	3650.	2900.2	0.5	0.8	0.0	450.40	1.00
1.660	5300.	2901.0	0.8	1.0	0.0	480.19	1.00
1.660	1780.	2898.2	0.0	0.8	0.0	325.31	30.00
1.660	2940.	2900.2	1.9	0.5	0.0	449.37	30.00
1.660	3650.	2900.6	0.5	0.4	0.0	463.00	30.00
1.660	5300.	2901.4	0.8	0.4	0.0	499.68	30.00
1.660	1780.	2898.2	0.0	-0.0	0.0	332.17	1.00
1.660	2940.	2900.1	1.9	-0.1	0.0	468.73	1.00
1.660	3650.	2900.5	0.4	-0.1	0.0	474.73	1.00
1.660	5300.	2901.3	0.7	-0.1	0.0	495.49	1.00
1.660	1780.	2898.5	0.0	0.3	0.0	423.77	10.00
1.660	2940.	2900.1	1.7	0.1	0.0	468.80	10.00
1.660	3650.	2900.6	0.4	0.1	0.0	476.29	10.00
1.660	5300.	2901.3	0.8	0.1	0.0	498.73	10.00
*	1.780	1780.	2909.0	0.0	10.6	38.69	600.00
*	1.780	2940.	2911.4	2.4	11.3	249.49	600.00
*	1.780	3650.	2912.2	0.8	11.6	397.95	600.00
*	1.780	5300.	2913.0	0.8	11.6	510.93	600.00

K07

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1.780	1780.	2911.0	0.0	2.0	0.0	209.55	40.00
1.780	2940.	2912.8	1.7	1.3	0.0	494.73	40.00
1.780	3650.	2913.3	0.5	1.1	0.0	538.75	40.00
1.780	5300.	2914.1	0.8	1.1	0.0	680.88	40.00
1.780	1780.	2910.9	0.0	-0.1	0.0	184.81	1.00
1.780	2940.	2913.0	2.1	0.2	0.0	500.86	1.00
1.780	3650.	2913.5	0.5	0.3	0.0	587.64	1.00
1.780	5300.	2914.4	0.9	0.3	0.0	723.80	1.00
1.780	1780.	2911.9	0.0	0.9	0.0	301.73	30.00
1.780	2940.	2913.4	1.6	0.4	0.0	549.13	30.00
1.780	3650.	2913.9	0.5	0.4	0.0	682.87	30.00
1.780	5300.	2914.7	0.8	0.3	0.0	748.25	30.00
1.780	1780.	2911.9	0.0	0.0	0.0	284.21	1.00
1.780	2940.	2913.3	1.4	-0.1	0.0	402.27	1.00
1.780	3650.	2913.8	0.5	-0.1	0.0	523.08	1.00
1.780	5300.	2914.6	0.8	-0.2	0.0	581.57	1.00
1.780	1780.	2912.0	0.0	0.1	0.0	288.27	10.00
1.780	2940.	2913.4	1.4	0.1	0.0	407.65	10.00
1.780	3650.	2913.8	0.5	0.1	0.0	525.96	10.00
1.780	5300.	2914.6	0.8	0.1	0.0	581.06	10.00
*	1.940	1750.	2926.6	0.0	14.6	37.97	760.00
*	1.940	2900.	2929.0	2.4	15.6	202.83	760.00
*	1.940	3600.	2929.7	0.7	15.9	304.44	760.00
*	1.940	5200.	2931.0	1.2	16.3	689.18	760.00
*	1.940	1750.	2927.6	0.0	1.0	76.70	30.00
1.940	2900.	2929.2	1.6	0.2	0.0	220.00	30.00
1.940	3600.	2929.9	0.7	0.2	0.0	337.20	30.00
*	1.940	5200.	2931.1	1.2	0.1	707.73	30.00
1.940	1750.	2928.0	0.0	0.5	0.0	87.75	10.00
1.940	2900.	2929.8	1.7	0.6	0.0	290.28	10.00
1.940	3600.	2930.4	0.7	0.5	0.0	517.90	10.00
1.940	5200.	2931.5	1.1	0.4	0.0	734.98	10.00
*	1.980	1750.	2931.0	0.0	3.0	24.77	180.00
*	1.980	2900.	2934.4	3.3	4.6	598.62	180.00
*	1.980	3600.	2934.7	0.4	4.3	606.03	180.00
*	1.980	5200.	2935.2	0.5	3.7	616.31	180.00
1.980	1750.	2931.2	0.0	0.2	0.0	24.89	30.00
1.980	2900.	2934.5	3.3	0.1	0.0	601.02	30.00
1.980	3600.	2934.8	0.3	0.1	0.0	607.75	30.00
1.980	5200.	2935.4	0.6	0.2	0.0	618.94	30.00
1.980	1750.	2932.9	0.0	1.7	0.0	115.03	10.00
1.980	2900.	2934.8	1.9	0.3	0.0	606.76	10.00
1.980	3600.	2935.1	0.3	0.3	0.0	613.53	10.00
1.980	5200.	2935.7	0.6	0.3	0.0	625.64	10.00

L07

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	2.130	1750.	2947.6	0.0	14.7	0.0	60.12	780.00
*	2.130	2900.	2949.4	1.8	14.6	0.0	219.54	780.00
*	2.130	3600.	2949.9	0.5	14.8	0.0	241.01	780.00
*	2.130	5200.	2950.9	1.0	15.2	0.0	289.85	780.00

SUMMARY OF ERRORS

CAUTION SECNO= 0.080 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.080 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.160 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.280 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.280 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.280 PROFILE= 2
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.280 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.280 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.280 PROFILE= 3
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.280 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.280 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.280 PROFILE= 4
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.280 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.280 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.280 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.280 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.280 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.370 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.370 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.370 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.370 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.370 PROFILE= 4
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.370 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.510 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.510 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.510 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.510 PROFILE= 3
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.510 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.510 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.510 PROFILE= 4

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.510 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.530 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.530 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.530 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.530 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.530 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.530 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.530 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.530 PROFILE= 3

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.530 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.530 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.530 PROFILE= 4

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.530 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.530 PROFILE= 2 HYDRAULIC JUMP D.S.

CAUTION SECNO= 0.690 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.690 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.690 PROFILE= 1
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.690 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.690 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.690 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.690 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.690 PROFILE= 3

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.690 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.690 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 0.690 PROFILE= 4

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.690 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.730 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.730 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.730 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.840 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.840 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.840 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.840 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.840 PROFILE= 4

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.840 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=	0.840	PROFILE=	2	HYDRAULIC JUMP D.S.
CAUTION SECNO=	0.900	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	0.900	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	0.900	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	0.980	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	0.980	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1.050	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1.320	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1.320	PROFILE=	1	
PROBABLE MINIMUM SPECIFIC ENERGY				
CAUTION SECNO=	1.320	PROFILE=	1	
20 TRIALS ATTEMPTED TO BALANCE WSEL				
CAUTION SECNO=	1.320	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1.320	PROFILE=	2	
PROBABLE MINIMUM SPECIFIC ENERGY				
CAUTION SECNO=	1.320	PROFILE=	2	
20 TRIALS ATTEMPTED TO BALANCE WSEL				
CAUTION SECNO=	1.320	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1.320	PROFILE=	3	
PROBABLE MINIMUM SPECIFIC ENERGY				
CAUTION SECNO=	1.320	PROFILE=	3	
20 TRIALS ATTEMPTED TO BALANCE WSEL				
CAUTION SECNO=	1.320	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1.320	PROFILE=	4	
PROBABLE MINIMUM SPECIFIC ENERGY				
CAUTION SECNO=	1.320	PROFILE=	4	
20 TRIALS ATTEMPTED TO BALANCE WSEL				
CAUTION SECNO=	1.440	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1.440	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1.440	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1.440	PROFILE=	4	
PROBABLE MINIMUM SPECIFIC ENERGY				
CAUTION SECNO=	1.440	PROFILE=	4	
20 TRIALS ATTEMPTED TO BALANCE WSEL				
CAUTION SECNO=	1.440	PROFILE=	2	
20 TRIALS ATTEMPTED TO BALANCE WSEL				
CAUTION SECNO=	1.530	PROFILE=	1	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1.530	PROFILE=	2	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1.530	PROFILE=	2	
PROBABLE MINIMUM SPECIFIC ENERGY				
CAUTION SECNO=	1.530	PROFILE=	2	
20 TRIALS ATTEMPTED TO BALANCE WSEL				
CAUTION SECNO=	1.530	PROFILE=	3	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1.530	PROFILE=	3	
PROBABLE MINIMUM SPECIFIC ENERGY				
CAUTION SECNO=	1.530	PROFILE=	3	
20 TRIALS ATTEMPTED TO BALANCE WSEL				
CAUTION SECNO=	1.530	PROFILE=	4	CRITICAL DEPTH ASSUMED
CAUTION SECNO=	1.530	PROFILE=	4	
PROBABLE MINIMUM SPECIFIC ENERGY				
CAUTION SECNO=	1.530	PROFILE=	4	
20 TRIALS ATTEMPTED TO BALANCE WSEL				

CAUTION SECNO= 1.640 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 1.640 PROFILE= 3 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 1.640 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.660 PROFILE= 1 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 1.660 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.660 PROFILE= 2
 PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.660 PROFILE= 2

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.660 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.660 PROFILE= 3

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.660 PROFILE= 3

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.660 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.660 PROFILE= 4

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.660 PROFILE= 4

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.780 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.780 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.780 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.780 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.780 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.780 PROFILE= 2

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.780 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.780 PROFILE= 3

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.780 PROFILE= 3

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.780 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.780 PROFILE= 4

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.780 PROFILE= 4

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.940 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.940 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.940 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.940 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.940 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.940 PROFILE= 2

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.940 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.940 PROFILE= 3

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.940 PROFILE= 3

20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.940 PROFILE= 4 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.940 PROFILE= 4

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.940 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.940 PROFILE= 1 HYDRAULIC JUMP D.S.
CAUTION SECNO= 1.940 PROFILE= 4 HYDRAULIC JUMP D.S.

CAUTION SECNO= 1.980 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.980 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.980 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.980 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.980 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.980 PROFILE= 3

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.980 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.980 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 1.980 PROFILE= 4

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 1.980 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 2.130 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 2.130 PROFILE= 2 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 2.130 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 2.130 PROFILE= 2
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 2.130 PROFILE= 3 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 2.130 PROFILE= 3

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 2.130 PROFILE= 3
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 2.130 PROFILE= 4 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 2.130 PROFILE= 4

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 2.130 PROFILE= 4
20 TRIALS ATTEMPTED TO BALANCE WSEL

DOB

ALLEN CREEK

WAYNESVILLE NC
100 YEAR FLOOD

500 YEAR FLOOD

50 YEAR FLOOD

10 YEAR FLOOD

MILE	Q	ELEV	Q	ELEV	Q	ELEV	Q	ELEV
0.020	5400.	2742.8	3700.	2741.7	3000.	2741.2	1800.	2740.1
0.080	5400.	2748.0	3700.	2746.2	3000.	2745.4	1800.	2744.2
0.160	5400.	2757.3	3700.	2754.4	3000.	2753.4	1800.	2751.2
0.160	5400.	2760.2	3700.	2757.8	3000.	2756.1	1800.	2753.6
0.280	5400.	2768.7	3700.	2767.3	3000.	2766.5	1800.	2765.0
0.280	5400.	2771.7	3700.	2769.7	3000.	2768.4	1800.	2766.4
0.370	5400.	2778.4	3700.	2777.5	3000.	2776.5	1800.	2774.1
0.510	5400.	2790.8	3700.	2790.4	3000.	2790.1	1800.	2789.4
0.530	5400.	2793.7	3700.	2793.1	3000.	2792.8	1800.	2792.1
0.530	5400.	2794.6	3700.	2794.0	3000.	2793.7	1800.	2793.0
0.690	5400.	2810.5	3700.	2809.6	3000.	2809.0	1800.	2805.9
0.730	5400.	2812.0	3700.	2811.1	3000.	2810.5	1800.	2809.0
0.730	5400.	2813.6	3700.	2812.6	3000.	2812.1	1800.	2811.3
0.760	5400.	2814.3	3700.	2813.3	3000.	2812.7	1800.	2811.7
0.840	5400.	2820.2	3700.	2819.4	3000.	2816.9	1800.	2815.4
0.840	5400.	2820.8	3700.	2819.8	3000.	2819.3	1800.	2816.3
0.900	5400.	2823.4	3700.	2822.5	3000.	2821.4	1800.	2819.8
0.980	5300.	2831.1	3650.	2828.4	2940.	2828.2	1780.	2826.5
1.050	5300.	2838.5	3650.	2836.7	2940.	2835.5	1780.	2834.2
1.120	5300.	2845.0	3650.	2844.0	2940.	2843.4	1780.	2841.6
1.320	5300.	2863.8	3650.	2863.0	2940.	2862.2	1780.	2860.1
1.440	5300.	2877.2	3650.	2876.5	2940.	2874.3	1780.	2873.3
1.440	5300.	2877.7	3650.	2877.0	2940.	2877.0	1780.	2873.8
1.530	5300.	2886.0	3650.	2885.3	2940.	2884.6	1780.	2882.7
1.640	5300.	2896.7	3650.	2896.1	2940.	2895.9	1780.	2893.9
1.660	5300.	2900.0	3650.	2899.4	2940.	2899.1	1780.	2896.4

E08

1.660	5300.	2901.3	3650.	2900.6	2940.	2900.1	1780.	2898.5
1.780	5300.	2913.0	3650.	2912.2	2940.	2911.4	1780.	2909.0
1.780	5300.	2914.6	3650.	2913.8	2940.	2913.4	1780.	2912.0
1.940	5200.	2931.0	3600.	2929.7	2900.	2929.0	1750.	2926.6
1.940	5200.	2931.5	3600.	2930.4	2900.	2929.8	1750.	2928.0
1.980	5200.	2935.2	3600.	2934.7	2900.	2934.4	1750.	2931.0
1.980	5200.	2935.7	3600.	2935.1	2900.	2934.8	1750.	2932.9
2.130	5200.	2950.9	3600.	2949.9	2900.	2949.4	1750.	2947.6

FLOOD INSURANCE ZONE DATA FOR ALLEN CREEK

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10¢	2¢	0.2¢
0.020	0.	-1.56	-0.49	1.09
0.080	280.	-1.93	-0.80	1.86
0.160	680.	-3.15	-0.98	2.97
0.160	720.	-3.25	-1.07	2.83
0.160	721.	-3.25	-1.08	2.62
0.160	751.	-3.56	-1.14	2.80
0.160	752.	-4.10	-1.56	2.47
0.160	762.	-4.23	-1.65	2.41
0.280	1402.	-2.30	-0.73	1.40
0.280	1442.	-2.30	-0.92	3.47
0.280	1472.	-1.05	0.33	4.93
0.280	1482.	-3.33	-1.31	1.97
0.370	1892.	-3.34	-0.99	0.96
0.510	2612.	-0.99	-0.24	0.46
0.530	2677.	-1.02	-0.34	0.55
0.530	2717.	-1.03	-0.29	0.53
0.530	2747.	-1.03	-0.29	0.53
0.530	2757.	-1.02	-0.29	0.53
0.690	3657.	-3.72	-0.59	0.96
0.730	3787.	-2.14	-0.61	0.91
0.730	3788.	-3.80	-0.65	1.09
0.730	3808.	-3.17	-0.53	1.02
0.730	3809.	-1.30	-0.51	1.00
0.730	3819.	-1.32	-0.51	1.01
0.760	4019.	-1.57	-0.55	1.07
0.840	4459.	-4.07	-2.50	0.78
0.840	4489.	-3.94	-2.66	0.94
0.840	4499.	-3.57	-0.55	0.99
0.900	4749.	-2.58	-1.06	0.91
0.980	5179.	-1.94	-0.18	2.66
1.050	5559.	-2.58	-1.24	1.74
1.120	6309.	-2.45	-0.64	0.98
1.320	7309.	-2.93	-0.83	0.81
1.440	7909.	-3.21	-2.17	0.65
1.440	7939.	-3.37	-2.41	0.61
1.440	7949.	-3.26	-0.08	0.62
1.530	8429.	-2.57	-0.65	0.71
1.640	8969.	-2.25	-0.22	0.59
1.660	9069.	-2.96	-0.30	0.65
1.660	9070.	-2.83	-0.51	0.80
1.660	9100.	-2.40	-0.46	0.78
1.660	9101.	-2.31	-0.44	0.75
1.660	9111.	-2.12	-0.44	0.76
1.780	9711.	-3.16	-0.75	0.76
1.780	9751.	-2.24	-0.51	0.82
1.780	9752.	-2.62	-0.55	0.88
1.780	9782.	-2.05	-0.50	0.83
1.780	9783.	-1.90	-0.47	0.79
1.780	9793.	-1.89	-0.48	0.80

G08

1.940	10553.	-3.16	-0.73	1.23
1.940	10583.	-2.35	-0.71	1.20
1.940	10593.	-2.42	-0.69	1.06
1.980	10773.	-3.70	-0.36	0.50
1.980	10803.	-3.63	-0.33	0.55
1.980	10813.	-2.27	-0.33	0.60
2.130	11593.	-2.35	-0.52	0.99

WEIGHTED AVG FOR REACH -2.58 -0.75 1.11

FHF FOR THE REACH = 025 WITH 96.2% OF THE REACH WITHIN 1.0 FEET
 ZONE FOR THE REACH = A 5

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA			WTD. AVG.	FHF	PERCENT WITHIN
		10'	1'	DIFF.			
	0.				SEC.		0.020
1	100.	2740.86	2742.48	-1.63	-1.63	015	100.
2	200.	2742.32	2744.08	-1.76	-1.69	015	100.
	280.				SEC.		0.080
3	300.	2743.81	2745.72	-1.91	-1.77	020	100.
4	400.	2745.44	2747.59	-2.15	-1.86	020	100.
5	500.	2747.19	2749.64	-2.45	-1.98	020	100.
6	600.	2748.93	2751.69	-2.76	-2.11	020	100.
	680.				SEC.		0.160
7	700.	2750.83	2753.89	-3.05	-2.24	020	100.
	720.				SEC.		0.160
	721.				SEC.		0.160
	751.				SEC.		0.160
	752.				SEC.		0.160
	762.				SEC.		0.160
8	800.	2753.05	2756.70	-3.65	-2.42	025	88.
9	900.	2755.13	2759.09	-3.96	-2.59	025	78.
10	1000.	2756.91	2760.57	-3.66	-2.70	025	80.
11	1100.	2758.69	2762.05	-3.36	-2.76	030	82.
12	1200.	2760.47	2763.53	-3.06	-2.78	030	75.
13	1300.	2762.25	2765.01	-2.76	-2.78	030	77.
14	1400.	2764.04	2766.49	-2.45	-2.76	030	86.
	1402.				SEC.		0.280
	1442.				SEC.		0.280
	1472.				SEC.		0.280
	1482.				SEC.		0.280
15	1500.	2765.83	2768.64	-2.82	-2.76	030	80.
16	1600.	2767.67	2771.00	-3.33	-2.80	030	81.
17	1700.	2769.56	2772.90	-3.33	-2.83	030	82.
18	1800.	2771.45	2774.79	-3.34	-2.86	030	83.
	1892.				SEC.		0.370
19	1900.	2773.35	2776.68	-3.32	-2.88	030	84.
20	2000.	2775.37	2778.51	-3.15	-2.89	030	85.
21	2100.	2777.48	2780.30	-2.82	-2.89	030	86.
22	2200.	2779.59	2782.09	-2.50	-2.87	030	86.
23	2300.	2781.71	2783.88	-2.17	-2.84	030	87.

H08

24	2400.	2783.82	2785.67	-1.84	-2.80	030	88.
25	2500.	2785.94	2787.46	-1.52	-2.75	025	88.
26	2600.	2788.05	2789.24	-1.19	-2.69	025	85.
	2612.				SEC.	0.510	
	2677.				SEC.	0.530	
27	2700.	2790.86	2791.88	-1.03	-2.63	025	78.
	2717.				SEC.	0.530	
	2747.				SEC.	0.530	
	2757.				SEC.	0.530	
28	2800.	2793.11	2794.20	-1.09	-2.57	025	75.
29	2900.	2794.33	2795.64	-1.30	-2.53	025	72.
30	3000.	2795.76	2797.37	-1.60	-2.50	025	77.
31	3100.	2797.19	2799.10	-1.90	-2.48	025	77.
32	3200.	2798.62	2800.82	-2.20	-2.47	025	78.
33	3300.	2800.05	2802.55	-2.50	-2.47	025	79.
34	3400.	2801.48	2804.28	-2.80	-2.48	025	79.
35	3500.	2802.91	2806.01	-3.10	-2.50	025	80.
36	3600.	2804.34	2807.74	-3.40	-2.52	025	78.
	3657.				SEC.	0.690	
37	3700.	2805.97	2809.35	-3.38	-2.55	025	78.
	3787.				SEC.	0.730	
	3788.				SEC.	0.730	
38	3800.	2808.00	2811.31	-3.31	-2.57	025	79.
	3808.				SEC.	0.730	
	3809.				SEC.	0.730	
	3819.				SEC.	0.730	
39	3900.	2810.27	2812.69	-2.42	-2.56	025	79.
40	4000.	2811.54	2813.02	-1.48	-2.54	025	78.
	4019.				SEC.	0.760	
41	4100.	2812.01	2813.79	-1.79	-2.52	025	78.
42	4200.	2812.78	2815.10	-2.32	-2.51	025	81.
43	4300.	2813.61	2816.49	-2.88	-2.52	025	79.
44	4400.	2814.44	2817.89	-3.45	-2.54	025	80.
	4459.				SEC.	0.840	
	4489.				SEC.	0.840	
	4499.				SEC.	0.840	
45	4500.	2815.57	2819.22	-3.65	-2.57	025	78.
46	4600.	2816.99	2820.38	-3.39	-2.59	025	78.
47	4700.	2818.40	2821.44	-3.03	-2.59	025	79.
	4749.				SEC.	0.900	
48	4800.	2819.85	2822.58	-2.72	-2.60	025	79.
49	4900.	2821.37	2823.88	-2.51	-2.60	025	80.
50	5000.	2822.92	2825.26	-2.34	-2.59	025	80.
51	5100.	2824.47	2826.64	-2.16	-2.58	025	80.
	5179.				SEC.	0.980	
52	5200.	2826.07	2828.10	-2.03	-2.57	025	81.
53	5300.	2827.91	2829.97	-2.06	-2.56	025	81.
54	5400.	2829.93	2832.16	-2.23	-2.56	025	81.
55	5500.	2831.96	2834.35	-2.39	-2.55	025	82.
	5559.				SEC.	1.050	
56	5600.	2833.77	2836.29	-2.52	-2.55	025	82.
57	5700.	2835.06	2837.62	-2.56	-2.55	025	82.
58	5800.	2836.05	2838.60	-2.54	-2.55	025	83.
59	5900.	2837.04	2839.57	-2.53	-2.55	025	83.
60	6000.	2838.04	2840.54	-2.51	-2.55	025	83.
61	6100.	2839.03	2841.52	-2.49	-2.55	025	84.
62	6200.	2840.02	2842.49	-2.47	-2.55	025	84.
63	6300.	2841.01	2843.46	-2.46	-2.55	025	84.
	6309.				SEC.	1.120	
64	6400.	2842.39	2844.86	-2.47	-2.55	025	84.

65	6500.	2844.20	2846.71	-2.52	-2.55	025	85.
66	6600.	2846.04	2848.61	-2.56	-2.55	025	85.
67	6700.	2847.89	2850.51	-2.61	-2.55	025	85.
68	6800.	2849.74	2852.40	-2.66	-2.55	025	85.
69	6900.	2851.59	2854.30	-2.71	-2.55	025	86.
70	7000.	2853.44	2856.20	-2.76	-2.55	025	86.
71	7100.	2855.29	2858.09	-2.81	-2.56	025	86.
72	7200.	2857.13	2859.99	-2.86	-2.56	025	86.
73	7300.	2858.98	2861.88	-2.90	-2.57	025	86.
	7309.				SEC.	1.320	
74	7400.	2860.99	2863.94	-2.95	-2.57	025	86.
75	7500.	2863.18	2866.18	-3.00	-2.58	025	87.
76	7600.	2865.39	2868.43	-3.04	-2.58	025	87.
77	7700.	2867.60	2870.69	-3.09	-2.59	025	87.
78	7800.	2869.80	2872.94	-3.14	-2.60	025	87.
79	7900.	2872.01	2875.19	-3.18	-2.60	025	86.
	7909.				SEC.	1.440	
	7939.				SEC.	1.440	
	7949.				SEC.	1.440	
80	8000.	2873.91	2877.11	-3.20	-2.61	025	86.
81	8100.	2875.65	2878.77	-3.12	-2.62	025	86.
82	8200.	2877.52	2880.49	-2.97	-2.62	025	87.
83	8300.	2879.38	2882.21	-2.83	-2.62	025	87.
84	8400.	2881.25	2883.93	-2.68	-2.63	025	87.
	8429.				SEC.	1.530	
85	8500.	2883.19	2885.76	-2.57	-2.62	025	87.
86	8600.	2885.23	2887.72	-2.49	-2.62	025	87.
87	8700.	2887.30	2889.73	-2.44	-2.62	025	87.
88	8800.	2889.37	2891.74	-2.38	-2.62	025	88.
89	8900.	2891.43	2893.75	-2.32	-2.61	025	88.
	8969.				SEC.	1.640	
90	9000.	2893.57	2895.95	-2.38	-2.61	025	88.
	9069.				SEC.	1.660	
	9070.				SEC.	1.660	
91	9100.	2896.44	2898.88	-2.43	-2.61	025	88.
	9100.				SEC.	1.660	
	9101.				SEC.	1.660	
	9111.				SEC.	1.660	
92	9200.	2893.12	2901.46	-2.34	-2.61	025	88.
93	9300.	2900.91	2903.27	-2.36	-2.60	025	88.
94	9400.	2902.67	2905.21	-2.53	-2.60	025	88.
95	9500.	2904.44	2907.14	-2.71	-2.61	025	88.
96	9600.	2906.20	2909.08	-2.88	-2.61	025	89.
97	9700.	2907.96	2911.01	-3.05	-2.61	025	89.
	9711.				SEC.	1.780	
	9751.				SEC.	1.780	
	9752.				SEC.	1.780	
	9782.				SEC.	1.780	
	9783.				SEC.	1.780	
	9793.				SEC.	1.780	
98	9800.	2910.46	2912.99	-2.52	-2.61	025	89.
99	9900.	2913.05	2915.04	-1.99	-2.61	025	89.
100	10000.	2914.97	2917.13	-2.15	-2.60	025	90.
101	10100.	2916.90	2919.22	-2.32	-2.60	025	90.
102	10200.	2918.82	2921.31	-2.49	-2.60	025	90.
103	10300.	2920.75	2923.40	-2.65	-2.60	025	90.
104	10400.	2922.67	2925.49	-2.82	-2.60	025	90.
105	10500.	2924.59	2927.58	-2.99	-2.60	025	90.
	10553.				SEC.	1.940	
	10583.				SEC.	1.940	

J08

	10593.					SEC.	1.940	
106	10600.	2926.85	2929.62	-2.77	-2.60	025		90.
107	10700.	2928.97	2931.80	-2.82	-2.61	025		90.
	10773.					SEC.	1.980	
108	10800.	2930.50	2933.91	-3.41	-2.61	025		90.
	10803.					SEC.	1.980	
	10813.					SEC.	1.980	
109	10900.	2932.85	2935.80	-2.96	-2.62	025		90.
110	11000.	2935.45	2937.73	-2.29	-2.61	025		90.
111	11100.	2937.33	2939.63	-2.29	-2.61	025		90.
112	11200.	2939.22	2941.52	-2.31	-2.61	025		90.
113	11300.	2941.10	2943.42	-2.32	-2.61	025		90.
114	11400.	2942.99	2945.31	-2.33	-2.60	025		90.
115	11500.	2944.87	2947.21	-2.34	-2.60	025		91.
	11593.					SEC.	2.130	

THIS REACH CAN BE SUBDIVIDED BY INC NO. TO MEET FIA REQUIREMENTS
 INPUT 20N WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END
 OF EACH REACH BY INC NO. FOR EXAMPLE 202 115 115
 A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

INC NO.	TOTAL LENGTH	AVG ELEVATION DATA			WTD. AVG.	FHF	PERCENT WITHIN
		10'	1'	DIFF.			
	0.					SEC.	0.020
1	100.	2740.86	2742.48	-1.63	-1.63	015	100.
2	200.	2742.32	2744.08	-1.76	-1.69	015	100.
	280.					SEC.	0.080
3	300.	2743.81	2745.72	-1.91	-1.77	020	100.
4	400.	2745.44	2747.59	-2.15	-1.86	020	100.
5	500.	2747.19	2749.64	-2.45	-1.98	020	100.
6	600.	2748.93	2751.69	-2.76	-2.11	020	100.
	680.					SEC.	0.160
7	700.	2750.83	2753.89	-3.05	-2.24	020	100.
	720.					SEC.	0.160
	721.					SEC.	0.160
	751.					SEC.	0.160
	752.					SEC.	0.160
	762.					SEC.	0.160
8	800.	2753.05	2756.70	-3.65	-2.42	025	88.
9	900.	2755.13	2759.09	-3.96	-2.59	025	78.
10	1000.	2756.91	2760.57	-3.66	-2.70	025	80.
11	1100.	2758.69	2762.05	-3.36	-2.76	030	82.
12	1200.	2760.47	2763.53	-3.06	-2.78	030	75.
13	1300.	2762.25	2765.01	-2.76	-2.78	030	77.
14	1400.	2764.04	2766.49	-2.45	-2.76	030	86.
	1402.					SEC.	0.280
	1442.					SEC.	0.280
	1472.					SEC.	0.280
	1482.					SEC.	0.280
15	1500.	2765.83	2768.64	-2.82	-2.76	030	80.
16	1600.	2767.67	2771.00	-3.33	-2.80	030	81.
17	1700.	2769.56	2772.90	-3.33	-2.83	030	82.
18	1800.	2771.45	2774.79	-3.34	-2.86	030	83.

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	1892.				SEC.	0.370	
19	1900.	2773.35	2776.68	-3.32	-2.88	030	84.
20	2000.	2775.37	2778.51	-3.15	-2.89	030	85.
21	2100.	2777.48	2780.30	-2.82	-2.89	030	86.
22	2200.	2779.59	2782.09	-2.50	-2.87	030	86.
23	2300.	2781.71	2783.88	-2.17	-2.84	030	87.
24	2400.	2783.82	2785.67	-1.84	-2.80	030	88.
25	2500.	2785.94	2787.46	-1.52	-2.75	025	88.
26	2600.	2788.05	2789.24	-1.19	-2.69	025	85.
	2612.				SEC.	0.510	
	2677.				SEC.	0.530	
27	2700.	2790.86	2791.88	-1.03	-2.63	025	78.
	2717.				SEC.	0.530	
	2747.				SEC.	0.530	
	2757.				SEC.	0.530	
28	2800.	2793.11	2794.20	-1.09	-2.57	025	75.
29	2900.	2794.33	2795.64	-1.30	-2.53	025	72.
30	3000.	2795.76	2797.37	-1.60	-2.50	025	77.
31	3100.	2797.19	2799.10	-1.90	-2.48	025	77.
32	3200.	2798.62	2800.82	-2.20	-2.47	025	78.
33	3300.	2800.05	2802.55	-2.50	-2.47	025	79.
34	3400.	2801.48	2804.28	-2.80	-2.48	025	79.
35	3500.	2802.91	2806.01	-3.10	-2.50	025	80.
36	3600.	2804.34	2807.74	-3.40	-2.52	025	78.
	3657.				SEC.	0.690	
37	3700.	2805.97	2809.35	-3.38	-2.55	025	78.
	3787.				SEC.	0.730	
	3788.				SEC.	0.730	
38	3800.	2808.00	2811.31	-3.31	-2.57	025	79.
	3808.				SEC.	0.730	
	3809.				SEC.	0.730	
	3819.				SEC.	0.730	
39	3900.	2810.27	2812.69	-2.42	-2.56	025	79.
40	4000.	2811.54	2813.02	-1.48	-2.54	025	78.
	4019.				SEC.	0.760	
41	4100.	2812.01	2813.79	-1.79	-2.52	025	78.
42	4200.	2812.78	2815.10	-2.32	-2.51	025	81.
43	4300.	2813.61	2816.49	-2.88	-2.52	025	79.
44	4400.	2814.44	2817.89	-3.45	-2.54	025	80.
	4459.				SEC.	0.840	
	4489.				SEC.	0.840	
	4499.				SEC.	0.840	
45	4500.	2815.57	2819.22	-3.65	-2.57	025	78.
46	4600.	2816.99	2820.38	-3.39	-2.59	025	78.
47	4700.	2818.40	2821.44	-3.03	-2.59	025	79.
	4749.				SEC.	0.900	
48	4800.	2819.85	2822.58	-2.72	-2.60	025	79.
49	4900.	2821.37	2823.88	-2.51	-2.60	025	80.
50	5000.	2822.92	2825.26	-2.34	-2.59	025	80.
51	5100.	2824.47	2826.64	-2.16	-2.58	025	80.
	5179.				SEC.	0.980	
52	5200.	2826.07	2828.10	-2.03	-2.57	025	81.
53	5300.	2827.91	2829.97	-2.06	-2.56	025	81.
54	5400.	2829.93	2832.16	-2.23	-2.56	025	81.
55	5500.	2831.96	2834.35	-2.39	-2.55	025	82.
	5559.				SEC.	1.050	
56	5600.	2833.77	2836.29	-2.52	-2.55	025	82.
57	5700.	2835.06	2837.62	-2.56	-2.55	025	82.
58	5800.	2836.05	2838.60	-2.54	-2.55	025	83.
59	5900.	2837.04	2839.57	-2.53	-2.55	025	83.

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60	6000.	2838.04	2840.54	-2.51	-2.55	025	83.
61	6100.	2839.03	2841.52	-2.49	-2.55	025	84.
62	6200.	2840.02	2842.49	-2.47	-2.55	025	84.
63	6300.	2841.01	2843.46	-2.46	-2.55	025	84.
	6309.				SEC.	1.120	
64	6400.	2842.39	2844.86	-2.47	-2.55	025	84.
65	6500.	2844.20	2846.71	-2.52	-2.55	025	85.
66	6600.	2846.04	2848.61	-2.56	-2.55	025	85.
67	6700.	2847.89	2850.51	-2.61	-2.55	025	85.
68	6800.	2849.74	2852.40	-2.66	-2.55	025	85.
69	6900.	2851.59	2854.30	-2.71	-2.55	025	86.
70	7000.	2853.44	2856.20	-2.76	-2.55	025	86.
71	7100.	2855.29	2858.09	-2.81	-2.56	025	86.
72	7200.	2857.13	2859.99	-2.86	-2.56	025	86.
73	7300.	2858.98	2861.88	-2.90	-2.57	025	86.
	7309.				SEC.	1.320	
74	7400.	2860.95	2863.94	-2.95	-2.57	025	86.
75	7500.	2863.18	2866.18	-3.00	-2.58	025	87.
76	7600.	2865.39	2868.43	-3.04	-2.58	025	87.
77	7700.	2867.60	2870.69	-3.09	-2.59	025	87.
78	7800.	2869.80	2872.94	-3.14	-2.60	025	87.
79	7900.	2872.01	2875.19	-3.18	-2.60	025	86.
	7909.				SEC.	1.440	
	7939.				SEC.	1.440	
	7949.				SEC.	1.440	
80	8000.	2873.91	2877.11	-3.20	-2.61	025	86.
81	8100.	2875.65	2878.77	-3.12	-2.62	025	86.
82	8200.	2877.52	2880.49	-2.97	-2.62	025	87.
83	8300.	2879.38	2882.21	-2.83	-2.62	025	87.
84	8400.	2881.25	2883.93	-2.68	-2.63	025	87.
	8429.				SEC.	1.530	
85	8500.	2883.19	2885.76	-2.57	-2.62	025	87.
86	8600.	2885.23	2887.72	-2.49	-2.62	025	87.
87	8700.	2887.30	2889.73	-2.44	-2.62	025	87.
88	8800.	2889.37	2891.74	-2.38	-2.62	025	88.
89	8900.	2891.43	2893.75	-2.32	-2.61	025	88.
	8969.				SEC.	1.640	
90	9000.	2893.57	2895.95	-2.38	-2.61	025	88.
	9069.				SEC.	1.660	
	9070.				SEC.	1.660	
91	9100.	2896.44	2898.88	-2.43	-2.61	025	88.
	9100.				SEC.	1.660	
	9101.				SEC.	1.660	
	9111.				SEC.	1.660	
92	9200.	2899.12	2901.46	-2.34	-2.61	025	88.
93	9300.	2900.91	2903.27	-2.36	-2.60	025	88.
94	9400.	2902.67	2905.21	-2.53	-2.60	025	88.
95	9500.	2904.44	2907.14	-2.71	-2.61	025	88.
96	9600.	2906.20	2909.08	-2.88	-2.61	025	89.
97	9700.	2907.96	2911.01	-3.05	-2.61	025	89.
	9711.				SEC.	1.780	
	9751.				SEC.	1.780	
	9752.				SEC.	1.780	
	9782.				SEC.	1.780	
	9783.				SEC.	1.780	
	9793.				SEC.	1.780	
98	9800.	2910.46	2912.99	-2.52	-2.61	025	89.
99	9900.	2913.05	2915.04	-1.99	-2.61	025	89.
100	10000.	2914.97	2917.13	-2.15	-2.60	025	90.
101	10100.	2916.90	2919.22	-2.32	-2.60	025	90.

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102	10200.	2918.82	2921.31	-2.49	-2.60	025	90.
103	10300.	2920.75	2923.40	-2.65	-2.60	025	90.
104	10400.	2922.67	2925.49	-2.82	-2.60	025	90.
105	10500.	2924.59	2927.58	-2.99	-2.60	025	90.
	10553.				SEC.	1.940	
	10583.				SEC.	1.940	
	10593.				SEC.	1.940	
106	10600.	2926.85	2929.62	-2.77	-2.60	025	90.
107	10700.	2928.97	2931.80	-2.82	-2.61	025	90.
	10773.				SEC.	1.980	
108	10800.	2930.50	2933.91	-3.41	-2.61	025	90.
	10803.				SEC.	1.980	
	10813.				SEC.	1.980	
109	10900.	2932.85	2935.80	-2.96	-2.62	025	90.
110	11000.	2935.45	2937.73	-2.29	-2.61	025	90.
111	11100.	2937.33	2939.63	-2.29	-2.61	025	90.
112	11200.	2939.22	2941.52	-2.31	-2.61	025	90.
113	11300.	2941.10	2943.42	-2.32	-2.61	025	90.
114	11400.	2942.99	2945.31	-2.33	-2.60	025	90.
115	11500.	2944.87	2947.21	-2.34	-2.60	025	91.
	11593.				SEC.	2.130	

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ELEVATION DIFFERENCE
BETWEEN BASE FLOOD AND

WEIGHTED AVG FOR REACH 10¢ 2¢ 0.2¢
 -2.60 -0.75 1.10

FHF FOR REACH 2 = 025 WITH 91.¢ OF THE REACH WITHIN 1.0 FEET
ZONE FOR THE REACH = A 5

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