

A01

THIS RUN EXECUTED 08/01/81 11:22:15

\*\*\*\*\*  
 12 RELEASE DATE NOV 76 UPDATED JULY 1980  
 JOB NO = 01 32 01  
 PLS = 30,31,32,33,34  
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T1 MAYNESVILLE NC ALLENCK 10-10-80 GNC 5  
 T2 10' FLOOD JOB KEY = 1132094 10  
 T3 ALLEN CREEK 1000 PROFILES 15

J1 HGT NO MIN TDIR ST METRIC HVINS Q CHAIN TO 20  
 1. 2. 0. 0. 0.012 0. 0.0 0.0 0.0 0.0

J2 HGT IPLOT P.VS XSECT XSECH FH ALLDC ISW CHAIN TRACE 25  
 0. 0. 0. 0. 0. 0.0 0.0 0. 0. 0. 0.0

J3 VARIABLE CODES FOR SUMMARY 30  
 150.00 0.0 180.00 201.00 0.0 0.0 0.0 0.0 0.0 0.0

\*PROP 1

CCNV= 0.100 CENV= 0.500

\*SECHO .020

2095 MBL NOT GIVEN, AVG OF MAX MIN USED  
 3200 CROSS SECTION 0.02 EXTENDED 0.53 FEET

ALLEN CREEK			10 YEAR FLOOD			(8/01/81)		TO MID		
MPLE	Q	QLOB	QCH	QROB	HV	ITRIAL	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT			
SLOPE	WTH	XPL	XNCH	XNR	QLOSS	CORAR	STTA			
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	EMITT			VOL
0.02	1800.	0.	1465.	335.	0.72	0	203.			
.740.13	0.0	0.	195.	201.	0.50	0	2740.50			
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	200.10			
	2734.50		0.	0.	25.	180.	403.10			0.

\*SECHO .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	0.070	0.055	0.110	0.43	-0.00	40.00			
	2734.70	280.	280.	280.	20.	20.	100.00			2.

801

\*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.	11.46	0.0	7.22	2753.24	2757.80
0.014334	0.046	0.090	0.040	0.110	0.23	-0.00	547.07
	2744.00	40.	400.	400.	25.	8.	580.89

\*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

\*SECNO .160

3265 DIVIDED FLOW

ALLEN CREEK		10 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIMS	ALOB	ACH	AROB	DNV	IDC	BANK FLEV	
DEPTH	USLTK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	QLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	MSDL	MSDR	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	9.58	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.	5.	583.45

\*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

\*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	7.41	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.	535.27

\*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

\*SECNO .280

2301 HV CHANGED MORE THAN HVINS

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

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	11.15	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

\*SECNO .280

\*\*\* GR CARDS REPEATED

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELREA= 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	0.	0.68	2767.40	2761.20
0.015117	0.045	0.070			0.00	-0.00	763.36
	2759.20	40.			14.	23.	800.00

SPECIAL BRIDGE

SB	HK	XKOR	COFG	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 .260  
 6110 EGLIC OF 2767.22 LESS THAN XEG OF 2767.50  
 CLASS A LOW FLOW

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

EGPRS	EGLIC	K3	QWEIR	GPR	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
0.007536	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		TOPWID	
MILE	Q	QLOB	QCH	QTOB	HV	ITRIAL	10C	BANK ELEV
ELEV	CRINS	ALOB	ACH	AROB	DHV	EG	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	CORAR	SSTA	
SLOPE	MTN	XNL	XNCH	XNR	OLOSS	WSDR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL			

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
0.020637	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	CRHS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTH	XNL	XCH	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.

\*SECHO .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	CRHS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTH	XNL	XCH	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	0	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.

\*SECHO .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	2793.10	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	14.

F01

SPECIAL BRIDGE

SB	HK	XKOR	COFA	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	2	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.	400.	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	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	MTN	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	CRIMS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTM	XML	XMCH	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	0	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.	289.	-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	CRIMS	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	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	CRIMS	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	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 COFO RDLEN BWC BWP VAREA 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 = 11.30  
 CALCULATED CHANNEL AREA = 158.

EGPRS EGLWC HS 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

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	W/TN	XNL	XNCH	XNR	GLOSS	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.	
2841.57	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		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	EG	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	CCRAR	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CCRAR	WSDR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			

3685 20 TRIALS ATTEMPTED WSEL, CWSEL  
 3593 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	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	MTM	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	HS	GWEIR	QPR	BAREA	TAREA	ELLC	
2874.75	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	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	MTM	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

\*SECHO 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	2898.10	
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.

\*SECHO 1.640

\*\*\* 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	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	MTN	XBL	XACH	XAR	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.	
2895.41	2895.41	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.

\*SECHO 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	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	MTN	XBL	XACH	XAR	QLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3310 NORMAL BRIDGE, MRD= 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.	8.	-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.	345.	571.85	55.

\*SECHO 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
0.008219	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	207.53
	2891.00	1.	1.	1.	20.	377.	604.61

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.
2898.46	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
0.008271	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		TOP MID		
MILE	Q	QLOB	QCH	QROB	HV	TRIAL	TOP MID		
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	HSELK	VLOB	VCH	VROB	H.	EG	LEFT/RIGHT		
SLOPE	MTN	XNL	XNCH	XNR	QLOSS	COAR	STA		
	ELMIN	XLOBL	XLCH	XLOBR	MSDL	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
5.16	0.0	0.0	11.44	0.0	6.99	2911.07	2912.50
0.027509	0.049	0.110	0.050	0.120	0.70	-0.00	458.20
	2903.90	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		TOP MID		
1.78	1780.	0.	1648.	132.	0.66	3	210.		
ELEV	CRIMS	ALOB	ACH	AROB	DHV	IDC	MARK ELEV		
DEPTH	MSELK	VLOB	VCH	VR(2)	HL	EG	LEFT/RIGHT		
SLOPE	WTH	YH	XCH	XH	CLOSS	CORAR	STA		
	ELMIN	XLOB	XLCH	XLOBR	WDL	WDR	ENDST	VOL	
2911.05	0.0	0.	243.	156.	-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.	850.29	60.	

\*SECTO 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.

\*SECTO 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	442.05	
	2903.90	30.	30.	30.	25.	390.	875.04	60.

\*SECTO 1.780

3265 DIVIDED FLOW

1.78	1780.	34.	1441.	305.	0.19	2	284.	
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802

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.

\*SECHO 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.

\*SECHO 1.940

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	GCH	GR0B	HV	TYRIAL	TOPWID	
ELEV	CRIMS	ALOB	ACH	AR0B	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	LOSS	CORAR	SSA	
	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	7.0
ELCHU		ELCHD						
2922.50		2922.50						

\*SECHO 1.940

\*\*\* GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

C02

EGPRS 2930.60	EGLWC 2928.69	H3 0.0	QWEIR 430.	QPR 1314.	BAREA 138.	TAREA 138.	ELLC 2926.20	
ELTRD 2926.90								
1.94 2927.56 5.36 0.018422	1750. 0.0 0.0 0.049	0. 0. 0.0 0.120	1725. 188. 9.16 0.055	25. 21. 1.22 0.120	1.28 -0.83 0.15 0.0	4 0 2928.85 -0.00	77. 2928.40 2928.50 608.70	698.75
	2922.20	30.	30.	30.	20.	70.		67.

\*SECNO 1.940

3265 DIVIDED FLOW

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

\*SECNO 1.980

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		10 YEAR FLOOD			08/01/81		TOPMID	
MPLE	Q	QLOB	QCH	QROB	HV	ITRIAL	IDC	BANK ELEV
ELEV	CRHS	ALOS	ACH	AROB	DHV	EG	CORAR	LEFT/RIGHT
DEPTH	WSELK	VLOB	VCH	VROB	KL	LOSS	WSDR	SSTA
SLOPE	MTN	XNL	XNCH	XNR	WSDL			ENDST
	ELMIN	XLOBL	XLCH	XLOBR				VOL

7185 MINIMUM SPECIFIC ENERGY

3727 CRITICAL DEPTH ASSUMED

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

SPECIAL BRIDGE

SB 1.25 ELCHU 2924.40	HK 1.60 ELCHD 2924.40	XXOR 3.00	COFG 0.0	RDLEN 21.40	BMC 0.51	BWP 165.00	BAREA 0.0	SS 0.0
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\*SECNO 1.980

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

PRESSURE AND WEIR FLOW

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

\*SE: NO 1.980

\*\*\* GA CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		10 YEAR FLOOD			08/01/81		TOPWID		
1/2 MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	IDC	BANK ELEV	
ELEV	CRIMS	ALOB	ACH	AROB	DHV	EG		LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	CORAR		SSTA	
SLOPE	WTN	XNL	XNCH	XNR	GLOSS	WSDR		ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL				
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.

\*SE: NO 2.130

3265 DIVIDED FLOW

ALLEN CREEK		10 YEAR FLOOD			08/01/81		TOPWID		
1/2 MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	IDC	BANK ELEV	
ELEV	CRIMS	ALOB	ACH	AROB	DHV	EG		LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	CORAR		SSTA	
SLOPE	WTN	XNL	XNCH	XNR	GLOSS	WSDR		ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL				
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	344.78		
	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	344.78		
	2943.00	780.	780.	780.	23.	293.	660.91		72.

E02

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

\*\*\*\*\*  
HEC2 RELEASE DATED NOV 76 UPDATED JULY1979  
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	FQ	
	0.	3.	0.	0.	0.01200	0.	0.0	0.	0.0	0.0	1720

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHWIM	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	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTH	XNL	XNCH	XNR	LOSS	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		
0.011617	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

0.15	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	QROP	HV	ITRIAL	TOPMID	
ELEV	CRIMS	ALOP	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTM	XML	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	
0.003197	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

\*\*\* GR 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

H02

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRINS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XML	XNCH	XNR	QLOSS	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	3000.	0.	2558.	442.	2.13	20	91.	
2766.53	2766.53	0.	203.	138.	1.18	14	2769.00	
7.33	0.0	0.0	12.61	3.21	6.89	2768.66	2761.20	
0.018254	0.045	0.070	0.045	0.120	0.37	-0.00	761.18	
	2759.20	640.	640.	640.	16.	74.	851.74	11.

\*SECHO .280

\*\*\* 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	CRINS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XML	XNCH	XNR	QLOSS	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	3000.	0.	3000.	0.	2.82	2	40.	
2767.03	2767.03	0.	223.	0.	0.69	8	2769.00	
7.83	0.0	0.0	13.47	0.0	0.75	2769.85	2761.20	
0.019178	0.045	0.070	0.045	0.120	0.34	-0.00	759.92	
	2759.20	40.	40.	40.	18.	23.	800.00	12.

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						

\*SECHO .280

6110 EGLWC OF 2769.59 LESS THAN XEG OF 2769.85  
 CLASS A LOW FLOW

3420 BRIDGE W.S. =		2767.03	BRIDGE VELOCITY =	13.31			
CALCULATED CHANNEL AREA =		225.					
EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC

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	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	MTN	XNL	XNCH	XNR	OLOSS	CCRAE	S/JA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSOR	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 1 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 52.89  
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	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	

J02

SLOPE	WTH 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	0.58	8.41	2.01	8.42	2790.80	2789.70	
0.011495	0.046	0.100	0.050	0.100	0.09	0.0	63.69	
	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	WTH ELMIN	XNL XL:XL	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								
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	COFO	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 MEIR FLOW

EGPRS	EGLMC	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
0.003790	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	TOPMID
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSEL	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
8.30	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.



L02

\*SECNO .730

\*\*\* 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	CRINS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	VSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		

7195 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

\*\*\* 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.

\*SECH0 .760

\*\*\* GR CARDS REPEATED

ALLEN CREEK

50 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRINS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTM	XN	XNCH	XNR	QLOSS	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	
9.21	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.

\*SECH0 .840

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK

50 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRINS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTM	XN	XNCH	XNR	QLOSS	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	540.27	
	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	IK	XKOR	COFG	RPLEN	RWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	32.50	0.01	240.00	0.0
	ELCHJ	ELCHD						
	2810.50	2810.50						

\*SECH0 .840

\*\*\* GR CARDS REPEATED

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

PRESSURE AND WEIR FLOW

EGPRS 2819.28	EGLMC 2819.12	H3 0.01	QWEIR 652.	QPR 2341.	BAREA 240.	TAREA 244.	ELLC 2818.00
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\*\*\* NOTE: R IS GREATER THAN 0 AND ELEV IS LESS THAN ELTRD \*\*\*

0.84	3000.	0.	3000.	0.	2.98	5	40.	
2516.82	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	540.29	
	2810.50	30.	30.	30.	20.	20.	600.00	58.

\*SECHO .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.

\*SECHO .900

\*\*\* GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLER CREEK		50 YEAR FLOOD				08/01/81			
MILE	Q	GLOB	GCH	GR0B	HV	ITRIAL	TOPWID		
ELEV	CRINS	ALOB	ACH	AR0B	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VRCS	RL	EG	LEFT/RIGHT		
SLOPE	MTN	XDL	XNCH	XNR	GLOSS	CORAR	SSTA		
	ELMIN	XL0BL	XLCH	XL0BR	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.

\*SECHO .980

ALLER CREEK		50 YEAR FLOOD				08/01/81			
MILE	Q	GLOB	GCH	GR0B	HV	ITRIAL	TOPWID		
ELEV	CRINS	ALOB	ACH	AR0B	DHV	IDC	BANK ELEV		

B03

DEPTH SLOPE	WSELK WTN ELMIN	VLOB XHL XLOBL	VCH XNCH XLCH	VROB XNR XLOBR	HL OLOSS MSDL	EG CORAR MSDR	LEFT/RIGHT SSTA ENDST	VOL
0.98 2828.23 6.83	2940. 0.0 0.0	0. 0. 0.0	2940. 265. 11.11	0. 0. 0.0	1.92 0.16 6.89	3 0 2830.15	50. 2828.50 2829.50	
0.018344	0.048 2821.40	0.090 430.	0.050 430.	0.090 430.	0.08 25.	-0.00 26.	709.51 760.00	64.

\*SECHO 1.050

\*\*\* GR CARDS REPEATED

1.05 2835.50 6.70	2940. 0.0 0.0	0. 0. 0.0	2940. 258. 11.40	0. 0. 0.0	2.02 0.10 7.32	4 0 2837.52	50. 2835.90 2836.90	
0.020007	0.048 2828.80	0.090 380.	0.050 380.	0.090 380.	0.05 25.	-0.00 24.	709.77 760.00	66.

\*SECHO 1.120

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

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

\*SECHO 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	YTRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XHL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	MSDL	MSDR	ENDST	VOL

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

1.32 2862.18 6.18	2940. 2862.18 0.0	23. 15. 1.54	2616. 267. 9.81	302. 161. 1.88	1.33 0.70 7.53	20 15 2863.51	274. 2862.00 2864.00	
0.014092	0.049 2856.07	0.080 1000.	0.050 1000.	0.090 1000.	0.35 222.	-0.00 536.	494.44 1252.00	84.

C03

\*SECNO 1.440

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/81		TOPWID		
MPLE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRWS	ALOB	ACH	AROB	D.V	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	QLOSS	CORAR	ENDST		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			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		
0.023367	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	COFO	RDLEN	BWC	DWP	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

\*\*\* CR CARDS REPEATED

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

ALLEN CREEK		50 YEAR FLOOD			08/01/81		TOPWID		
MPLE	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	QLOSS	CORAR	ENDST		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			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	OPR	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

3265 DIVIDED FLOW

3280 CROSS SECTION 1.44 EXTENDED 1.95 FEET

3301 HV CHANGED MORE THAN HVINS

3695 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.

\*SECTO 1.530

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		50 YEAR FLOOD			08/01/01			
MILE	Q	GLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRINS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	MTN	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.	481.	480.	25.	657.	1125.50	98.

\*SECTO 1.640

3265 DIVIDED FLOW

3280 CROSS SECTION 1.64 EXTENDED 0.82 FEET

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

2897.80 540. 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	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTH	XNL	XNCH	XNR	GLOSS	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	2897.06	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	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTH	XNL	XNCH	XNR	GLOSS	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

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.

\*SECTO 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	
0.003858	0.049	0.110	0.050	0.120	0.08	-0.00	205.27	
	2891.00	1.	1.	1.	22.	447.	674.00	108.

\*SECTO 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.

\*SECTO 1.780

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	GLOSS	CORAR	SSTA	
	ELMIN	XL0BL	XLGH	XL0BR	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. 320. 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	GR0B	HV	ITRIAL	TOPWID		
ELEV	CRIMS	AL0B	ACH	AR0B	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OL0SS	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.	1651.	1651.	0.24	2	501.		
2913.00	0.0	0.	735.	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	
7.67	0.0	1.41	5.75	1.38	0.04	2913.71	2912.50	
0.003656	0.049	0.126	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	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTH	XNL	XNCH	XNR	OLSS	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	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	XXOR	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 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	2928.49	
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	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	ES	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
	ELCHJ	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	385.85	
	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			
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	MTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
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			
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	MTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
2.13	2900.	0.	2618.	282.	1.37	20	220.	
2949.40	2949.40	0.	265.	169.	0.97	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.

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.	0.97	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	IPROF	IPLOT	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		TOPWID		VOL
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		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
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		TOPWID		VOL
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		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
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

ALLEN CREEK			100 YEAR FLOOD		08/01/81		TOPWID		VOL
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		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
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

3301 HV CHANGED MORE THAN HVINS

0.16	3700.	22.	3676.	2.	1.79	6	119.
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
0.007045	0.046	0.090	0.040	0.110	0.09	-0.00	538.22
	2744.00	40.	40.	40.	34.	247.	819.25

\*SECHO .160

3265 DIVIDED FLOW

ALLEN CREEK		100 YEAR FLOOD	08/01/81					
MILE	0	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	WTM	XML	XNCH	XNR	GLOSS	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

\*SECHO .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
0.01340	0.046	0.090	0.040	0.110	0.08	-0.00	536.28
	2744.00	30.	30.	30.	12.	328.	876.00

\*SECHO .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.	305.	875.00	6.

\*SECNO .160

\*\*\* GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.16 EXTENDED 1.29 FEET

0.16	3700.	207.	2978.	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	0.085	0.110	0.02	-0.00	501.65	
	2744.00	10.	10.	10.	71.	305.	875.00	6.

\*SECNO .280

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	GLOB	GCH	GR0B	HV	ITP/IAL	TOP/ID	
ELEV	CRIMS	ALOB	ACH	AR0B	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

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	GLOB	GCH	GR0B	HV	ITRIAL	TOP/ID	
ELEV	CRIMS	ALOB	ACH	AR0B	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 OVBANK AREA ASSUMED NON-EFFECTIVE, ELREA= 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	BMC	BWP	BAREA	SS
	1.26	1.60	3.00	0.0	28.50	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

C04

3280 CROSS SECTION 0.37 EXTENDED 1.58 FEET

3301 HV CHANGED MORE THAN HVINS

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

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		
	2789.00	410.	410.	410.	231.	567.	1285.00		22.

\*SECNO .510

3265 DIVIDED FLOW

3280 CROSS SECTION 0.51 EXTENDED 2.35 FEET

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

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

D04

ELMIN	XLOBL	XLGH	XLOBR	WSDL	WSDR	ENDST	VOL
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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	COFA	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

ED4

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 .490

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	CRIMS	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	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	CRIMS	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	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 BR. HRD= 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, HRD= 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	2.42	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	IYRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOD	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	QLOSS	CORAR	SSTA	
	ELMIN	XL0BL	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	1.32	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

G04

ALLEN CREEK

100 YEAR FLOOD

08/01/81

MILE	Q	QLOB	GCH	GROB	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	COHAR	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	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	GCH	GROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		

H04

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	
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	CRWS	ALOB	ACH	AROB	DHV	IDC		
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	
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	CRWS	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

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	CRWS	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

1.44	3650.	62.	2854.	734.	0.92	13	617.	
2876.52	2876.52	59.	329.	420.	-0.04	12	2876.40	
8.92	0.0	1.63	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 2867.20	ELCHD 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	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 2880.90	EGLWC 2877.45	H3 0.00	QWEIR 2489.	QPR 1170.	BAREA 275.	TAREA 279.	ELLC 2874.60
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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			
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	

K04

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.	.68.	882.	0.98	20	503.	
2885.29	2885.29	0.	705.	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			08/01/8.			
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

1.66	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

L04

3301 HV CHANGED MORE THAN HVINS

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

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	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		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	MTN	XML	XNCH	XNR	OLOSS	CORAR	ENDST		VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	HSDR			

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	800.	800.	800.	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	MTN	XML	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, 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, HBD= 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	2912.90	
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.

\*SECHO 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.

\*SECHO 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.	625.	1106.51	171.

\*SECHO 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	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	QLOSS	CORAR	ENDST	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	VOL	

3685 20 TRIALS ATTEMPTED WSEL, CWSEL

3695 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	COFO	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	37.20	0.01	137.50	0.0

ELCHJ 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	GPR	BAREA	TAREA	ELLC
2946.77	2931.17	0.00	2805.	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	435.00
	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.
2940.44	2929.83	189.	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		TOP MID	
MILE	Q	QLOB	QCH	QROB	NV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	MTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	VOL	

3685 20 TRIALS ATTEMPTED WSEL, CWSEL  
3893 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
0.01045	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

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
	ELCHJ	ELCHD						
	2924.40	2924.40						

\*SECTO 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	
2934.98	2934.94	0.00	3097.	525.	165.	167.	2932.00
ELTRD							
2931.70							

1.98	3600.	61.	2135.	1403.	0.73	2	605.
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

\*SECTO 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	CRWS	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
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.	1013.81	193.

\*SECTO 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	CRWS	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

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

2.13	3800.	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	2931.36	2951.00
0.013148	0.049	0.080	0.050	0.120	0.46	-0.00	339.08
	2943.00	780.	780.	780.	29.	300.	668.00
							209.



E05

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

\*\*\*\*\*  
HEC2 RELEASE DATED NOV 76 UPDATED JULY 1979  
ERROR CORR - 01,02,03  
MODIFICATION - 30,31,32,33,34  
\*\*\*\*\*

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	CHNIN	ITRACE	
	15.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	1775

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

3200 CROSS SECTION 0.16 EXTENDED 0.83 FEET

3301 HV CHANGED MORE THAN HVINS

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

7185 MINIMUM SPECIFIC ENERGY

3220 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

\*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.	75.	303.	875.00

\*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		TOPWID	
MPLE	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	MTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	VOL	

3370 NORMAL BRIDGE, NRD= 6 MIN ELTRD= 2759.50 MAX ALLC= 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

\*SECNO .160

\*\*\* GR CARDS REPEATED

3265 DIVIDED FLOW

3280 CROSS SECTION 0.16 EXTENDED 3.13 FEET

H05

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE,HRD= 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	-4.86	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	TRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XML	XNCH	XNR	QLOSS	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.	1037.	2.77	20	117.
2768.66	2768.66	0.	791.	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	CRIMS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	QLOSS	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	CRIMS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	QLOSS	CORAR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR		

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	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

0.37	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	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

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	GLOSS	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

280 CROSS SECTION 0.53 EXTENDED 3.73 FEET

L05

PRESSURE AND WEIR FLOW

EGPRS 2866.97	EGLWC 2794.77	H3 0.00	QWEIR 5170.	QPR 268.	BAREA 100.	TAREA 100.	ELLE 2790.30
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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		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			
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	2.23	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		500 YEAR FLOOD	08/01/81						
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPMID		
ELEV	CRINS	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	XL09L	XLCH	XL0BR	WSDL	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	2813.55	2809.50		
0.011020	0.047	0.100	0.050	0.100	0.01	-0.00	121.32		
	2802.00	130.	130.	130.	166.	216.	503.62		111.

\*SECNO .730

3301 HV CHANGED MORE THAN HVINS

3370 NORMAL BRIDGE, NRD= 9 MIN ELTRD= 2809.20 MAX FLLC= 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	2813.69	2810.00		
0.009751	0.047	0.100	0.050	0.100	0.13	-55.42	90.98		
	2801.50	1.	1.	1.	194.	221.	505.99		111.

\*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	2813.87	2810.00		
0.008182	0.047	0.100	0.050	0.100	0.00	-55.42	89.99		
	2801.50	20.	20.	20.	195.	222.	506.54		112.

\*SECNO .730

\*\*\* GR CARDS REPEATED

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

0.73	5400.	913.	2966.	1521.	0.50	2	416.		
2813.52	0.0	492.	398.	715.	0.29	0	2810.00		
11.52	0.0	1.86	7.45	2.13	0.01	2814.03	2809.50		
0.003678	0.047	0.100	0.050	0.100	0.15	-0.00	90.63		
	2802.00	1.	1.	1.	196.	220.	506.54		112.

\*SECNO .730

\*\*\* GR CARDS REPEATED

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

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	2814.06	2809.50		
0.003545	0.047	0.100	0.050	0.100	0.00	-0.00	90.36		
	2802.00	10.	10.	10.	197.	226.	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	WTH	XNL	XNCH	XNR	QLOSS	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	2611.50		
10.83	0.0	2.11	8.58	2.49	0.86	2815.04	2811.00		
0.003367	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 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	WTH	XNL	XNCH	XNR	QLOSS	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	10.98	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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805

2821.23 2820.98 0.00 3875. 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
9.12	0.0	2.34	10.25	2.58	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.	378.	170.	750.00

\*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

\*SECNO .900

\*\*\* GR CARDS REPEATED

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	CRINS	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	XLOBR	WSDL	WSDR	ENDST	VOL

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	2.83	10.99	2.59	2.04	2824.76	2821.20
0.010452	0.048	0.090	0.050	0.090	0.26	-0.00	213.34
	2813.70	250.	250.	250.	365.	170.	750.00

\*SECNO .980

3265 DIVIDED FLOW

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

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		TOPWID		
MPLE	Q	QLOB	QCH	QROB	HV	ITR/AL	TOPWID		
ELEV	CRIMS	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	708.49
	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		TOPWID		
MPLE	Q	QLOB	QCH	QROB	HV	ITR/AL	TOPWID		
ELEV	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		

D06

DEPTH SLOPE	MSELK MTN ELMIN	VLOB XBL XLOBL	VCH XNCH XLCH	VROB XNR XLOBR	HL OLOSS WSDL	EG CORAR WSDR	LEFT/RIGHT SSTA ENDST	VOL
3685 20 TRIALS ATTEMPTED WSEL, CWSEL								
3693 PROBABLE MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
1.32	5300.	203.	3241.	1853.	0.88	20	572.	
2843.82	2843.82	96.	344.	732.	0.09	10	2842.00	
7.82	0.0	2.13	9.43	2.53	6.72	2844.70	2844.00	
0.009638	0.049	0.080	0.030	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	TOPMID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	MSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	MTN ELMIN	XBL 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								
1.44	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 P.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	TOPMID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	MSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	

E06

SLOPE	WTN ELMIN	XNL XLOBL	XNCH XLCH	XNR XLOBR	QLOSS WSDL	CORAR WSDR	SSTA ENDST	VOL
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PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2886.40	2878.10	0.00	4169.	1149.	275.	279.	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		TOPMID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRIMS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	QLOSS	CORAR	ENDST	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	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			
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	MTN	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.

\*SECHO 1.660

\*\*\* GR CARDS REPEATED  
3280 CROSS SECTION 1.66 EXTENDED 1.72 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	MTN	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.

\*SECHO 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			
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	MTN	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	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. -0.66 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	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XML	XMCH	YNR	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 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	
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
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	
	2903.90	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			
MILE	Q	QLOB	QCH	QROB	HV	ITP*AL	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

1.94	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

\*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
0.007884	0.049	0.120	0.055	0.120	0.03	-0.00	365.00
	2922.20	10.	10.	10.	264.	567.	1195.98

\*SECNO 1.980

3265 DIVIDED FLOW

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

SPECIAL BRIDGE

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

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

SECNO	XLCH	ELTRD	ELLC	EI.MIN	Q	CWSEL	CRWS	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	2745.31	2748.15	322.29	13.41	223.72	167.11
* 0.080	280.	0.0	0.0	2738.7	3700.0	2746.16	2746.16	2749.40	327.21	14.46	255.88	204.55
* 0.080	280.	0.0	0.0	2738.7	5400.0	2748.01	2748.01	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	2757.33	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	2753.98	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	2757.28	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

MO6

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

	SEONO	XLCH	ELTRD	ELLC	ELMIN	Q	CMSEL	CRINS	EG	10K+8	VCH	AREA	.0IK
*	0.280	640.	0.0	0.0	2759.2	1800.0	2764.96	2764.96	2768.71	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	280.80	271.62
*	0.280	40.	0.0	0.0	2759.2	5400.0	2771.43	0.0	2771.89	27.94	7.23	2273.99	1021.63
*	0.280	30.	2770.0	2769.6	2759.2	1800.0	2765.66	0.0	2767.40	167.95	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	31.41	8.89	1714.57	733.14
*	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	322.41
*	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	85.44	9.34	722.65	700.18
*	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	189.21
*	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	280.08
*	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	476.89
*	0.530	40.	0.0	0.0	2785.5	3700.0	2793.99	0.0	2794.22	41.77	5.75	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	38.65	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	569.53
*	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	627.59	364.21
*	0.690	900.	0.0	0.0	2800.5	5400.0	2810.55	2810.55	2812.03	108.27	11.48	938.32	518.96

SECNO	XLCH	ALTRD	ELLC	ELMIN	6	CMSL	CAWS	EG	1DK48	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	2812.56	2811.54	2812.62	125.95	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	377.83
0.730	20.	2809.2	2808.7	2801.5	5400.0	2813.67	0.0	2813.87	81.82	4.95	1579.15	595.99
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	52.43	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	2812.51	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	105.70	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	401.55
0.840	30.	2817.0	2818.0	2810.5	5400.0	2820.42	0.0	2821.56	87.80	10.25	1090.99	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	816.44	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	688.47
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	264.69	215.89
* 0.980	430.	0.0	0.0	2821.4	3630.0	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



SECNO	XLCH	ELTRD	ELLC	ELHIN	Q	CUSEL	CRWS	EG	TOR#8	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	2837.32	200.07	11.40	257.96	107.85
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	0.0	2828.8	5300.0	2838.48	2838.48	2840.50	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	429.73
1.120	750.	0.0	0.0	2835.6	3650.0	2844.04	0.0	2844.74	47.35	6.89	687.43	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	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	0.0	2856.0	2940.0	2862.18	2862.18	2863.51	140.92	9.81	442.73	247.66
* 1.320	1000.	0.0	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	0.0	2856.0	5300.0	2863.82	2863.82	2864.70	96.58	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	0.0	2867.6	2940.0	2874.35	2874.35	2876.99	253.67	13.04	223.42	184.39
* 1.440	600.	0.0	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	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	8.97	1794.24	615.66
1.440	10.	0.0	0.0	2867.6	1780.0	2875.77	0.0	2875.00	151.14	8.91	199.81	155.44
* 1.440	10.	0.0	0.0	2867.6	2940.0	2876.93	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	0.0	2877.6	1780.0	2882.73	2882.73	2884.35	230.16	10.26	180.59	112.54
* 1.530	480.	0.0	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	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	0.0	2877.6	5300.0	2886.09	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	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	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	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	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	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	0.0	2891.0	3650.0	2899.37	2899.37	2900.38	109.47	9.53	882.28	348.85
* 1.660	100.	0.0	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	8.28	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	331.23
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

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CMSL	CRWS	EG	TK*S	VCH	AREA	.01K	
1.660	1.	0.0	0.0	2891.0	1780.0	2898.21	2896.40	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	3650.0	2900.58	0.0	2900.92	36.98	6.15	1453.60	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	1078.05	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	160.99	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	TOKS	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	99.73	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	2934.30	0.0	2935.21	85.57	8.22	919.53	313.50
	1.980	30.	2931.7	2932.2	2924.4	3600.0	2934.85	0.0	2935.56	92.09	8.76	1120.68	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	166.61
	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	1687.00	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	9.88	434.43	238.60
*	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

RUMMARY PRINTOUT TABLE 150

SEGN0	Q	CSBEL	DIFNSP	DIFMSX	DIFKHS	TOPMD	XLGH
0.020	1800.	2740.1	0.0	0.0	0.0	202.60	0.0
0.030	3000.	2741.2	1.1	0.0	0.0	204.49	0.0
0.020	3700.	2741.7	0.5	0.0	0.0	205.37	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	35.82	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	75.00	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	2.8	-0.3	0.0	205.04	1.00
0.160	1800.	2753.3	0.0	0.9	0.0	39.97	30.00
0.160	3000.	2755.7	2.4	1.1	0.0	30.88	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	358.57	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.	2767.5	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	42.59	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

607

*	<del>0.281</del>	<del>3700.</del>	<del>2766.7</del>	<del>-0.3</del>	<del>-1.2</del>	<del>0.0</del>	<del>39.88</del>	<del>30.00</del>
	0.280	5400.	2771.6	4.9	0.2	0.0	1131.40	30.00

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	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	1001.08	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	952.78	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	1300.	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	CWSEL	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	0.0	39.34	440.00
0.840	3000.	2816.9	1.6	4.2	0.0	39.73	440.00
0.840	3700.	2819.4	2.5	6.2	0.0	325.68	440.00
0.840	5400.	2820.2	0.8	5.9	0.0	368.26	440.00
0.840	1800.	2815.5	0.0	0.2	0.0	39.39	30.00
0.840	3000.	2816.8	1.3	-0.1	0.0	39.71	30.00
0.840	3700.	2819.5	2.7	0.1	0.0	327.79	30.00
0.840	5400.	2820.4	0.9	0.2	0.0	414.72	30.00
0.840	1800.	2816.3	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	1.5	2.1	0.0	210.50	250.00
0.900	3700.	2822.5	1.1	2.6	0.0	321.44	250.00
0.900	5400.	2823.4	0.9	2.6	0.0	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	0.0	51.02	430.00
0.980	5300.	2831.1	2.7	7.7	0.0	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	0.0	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	0.0	52.77	1000.00
1.320	2940.	2862.2	2.1	18.8	0.0	273.78	1000.00
1.320	3650.	2863.0	0.8	19.0	0.0	495.18	1000.00
1.320	5300.	2863.8	0.8	18.8	0.0	572.14	1000.00

SECNO	Q	CMSL	DIFWSP	DIFWSX	DIFKWS	TOPUID	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	0.0	44.04	600.00
*	1.440	3650.	2876.5	2.2	13.5	0.0	616.65	600.00
*	1.440	5300.	2877.2	0.6	13.3	0.0	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	0.0	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	0.0	75.30	480.00
*	1.530	2940.	2884.6	1.9	7.7	0.0	389.45	480.00
*	1.530	3650.	2885.3	0.6	8.3	0.0	502.90	480.00
*	1.530	5300.	2886.0	0.7	8.4	0.0	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	0.0	458.50	540.00
*	1.640	3650.	2896.1	0.2	10.8	0.0	467.82	540.00
*	1.640	5300.	2896.7	0.6	10.7	0.0	468.55	540.00
	1.660	1780.	2896.4	0.0	2.5	0.0	36.21	100.00
*	1.660	2940.	2899.1	2.7	3.1	0.0	455.35	100.00
*	1.660	3650.	2899.4	0.3	3.2	0.0	467.85	100.00
*	1.660	5300.	2900.0	0.6	3.3	0.0	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	460.80	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	0.0	38.69	600.00
*	1.780	2940.	2911.4	2.4	11.3	0.0	249.49	600.00
*	1.780	3650.	2912.2	0.8	11.6	0.0	397.95	600.00
*	1.780	5300.	2913.0	0.8	11.6	0.0	510.93	600.00



K07

SECMO	Q	CMSEL	DIFMSP	DIFMSX	DIFMWS	TOPMID	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	0.0	37.97	760.00
1.940	2900.	2929.0	2.4	15.6	0.0	202.83	760.00
1.940	3600.	2929.7	0.7	15.9	0.0	304.44	760.00
1.940	5200.	2931.0	1.2	16.3	0.0	689.18	760.00
1.940	1750.	2927.6	0.0	1.0	0.0	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	0.0	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	0.0	24.77	180.00
1.980	2900.	2934.4	3.3	4.6	0.0	598.62	180.00
1.980	3600.	2934.7	0.4	4.3	0.0	606.03	180.00
1.980	5200.	2935.2	0.5	3.7	0.0	616.31	180.00
1.980	1750.	2931.2	0.0	0.2	0.0	24.99	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	WSEL	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= 1.640 PROFILE= 2  
 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 1.660 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 1.640 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

ALLEN CREEK

HAYNESVILLE NC  
100 YEAR FLOOD

500 YEAR FLOOD

50 YEAR FLOOD

10 YEAR FLOOD

DICE	500 YEAR FLOOD		HAYNESVILLE NC 100 YEAR FLOOD		50 YEAR FLOOD		10 YEAR FLOOD	
	g	ELEV	g	ELEV	g	ELEV	g	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
0.780	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.	2835.3	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.
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
1.940	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	0.53
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	3879.	-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	-2.68	0.94
0.840	4499.	-3.57	-0.55	0.99
0.900	4749.	-2.68	-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	9089.	-2.98	-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

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 96.24 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 ELFVATION 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.	2743.44	2747.59	-2.15	-1.86	020	100.
5	500.	2747.19	2749.64	-2.45	-1.98	020	100.
6	600.	2748.93	2751.89	-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
	752.					SEC.	0.160
8	800.	2753.05	2754.70	-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	2823.34	-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.
	6369.				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.	2875.91	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	2882.71	-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.
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

INC NO.	TOTAL LENGTH	AVG ELEVATION 10'	AVG ELEVATION 1'	DIFF.	WTD. AVG.	FHF	PERCENT WITHIN
106	10593.	2926.85	2929.62	-2.77	-2.60	025	90.
107	10700.	2928.97	2931.80	-2.82	-2.61	025	90.
108	10773.	2930.50	2933.91	-3.41	-2.61	025	90.
109	10803.	2932.85	2935.80	-2.96	-2.62	025	90.
110	10813.	2935.45	2937.73	-2.29	-2.61	025	90.
111	10900.	2937.33	2939.63	-2.29	-2.61	025	90.
112	11000.	2939.22	2941.52	-2.31	-2.61	025	90.
113	11100.	2941.10	2943.42	-2.32	-2.61	025	90.
114	11200.	2942.99	2945.31	-2.33	-2.60	025	90.
115	11300.	2944.87	2947.21	-2.34	-2.60	025	91.
	11593.						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 10'	AVG ELEVATION 1'	DIFF.	WTD. AVG.	FHF	PERCENT WITHIN
	0.						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.						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.						0.160
7	700.	2750.83	2753.89	-3.05	-2.24	020	100.
	720.						0.160
	721.						0.160
	751.						0.160
	752.						0.160
	762.						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.						0.280
	1452.						0.280
	1472.						0.280
	1482.						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.

K08

	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.	

L08

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.	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.

M08

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	

ELEVATION DIFFERENCE  
BETWEEN BASE FLOOD AND

WEIGHTED AVG FOR REACH

106	26	0.26
-2.60	-0.75	1.10

FHF FOR REACH 2 = 025 WITH 91.4 OF THE REACH WITHIN 1.0 FEET  
ZONE FOR THE REACH = A 5

..



AD:

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

SECRET  
NEED RELEASE DATED NOV 75 UPDATED JULY 1979  
NOV 75 - 10 31 43 34

LINE	DESCRIPTION	UNIT	MIN	DIR	STRT	MTRIC	HWINS	G	WSEL	FR	...
11	ALLENCKF 11-01-80 GNC										10
12	JL KEY = NCD0094										20
13	100 YEAR FLOWWAY										30
14	...		0.	N.	0.0	0	0.0	0.	241.70	0.0	40
15	...		0.	-1	0.	0.	2.0	1.0	0.	0.	50
16	...		0.0	200.00	0.0	0.	0.0	0.0	0.0	0.0	60
17	...		0.120	0.0	0.1	0.5					70
18	...		0.0	0.0	0.0	0.0	370.0	195.00	285.00	0.0	80
19	...		0.0	0.0	0.0	0.0	7.11	500.00	585.00	0.0	90
20	...		0.02	20	200	0	0	0.0	0.0	0.	100
21	...		2732.0	18	2732.0	17	2732.0	162	2732.5	172.	110
22	...		2734.0	19	2734.0	18	2734.0	216	2734.5	225.	120
23	...		2736.0	20	2736.0	19	2736.0	247	2736.8	249.	130
24	...		2738.0	21	2738.0	20	2738.0	285	2738.6	303.	140
25	...		0.090	0.110	0.080	0.0					150
26	...		0.	0.0	0.0	0.0	7.11	60.00	100.00	0.0	160
27	...		0.08	12	40	100	280	0.0	0.0	0.	170
28	...		2742.0	3	2742.0	5	2742.0	60	2742.5	60.	180
29	...		2744.0	4	2744.0	10	2744.0	94	2744.0	100.	190
30	...		2746.0	5	2746.0	15	2746.0	0.	0.0	0.	200
31	...		0.090	0.110	0.040	0.0					210
32	...		0.	0.0	0.0	0.0	7.11	500.00	585.00	0.0	220
33	...		0.16	21	45	400	400	0.0	0.0	0.	230
34	...		2752.0	33	2752.0	500	2752.0	508	2752.5	518.	240
35	...		2754.0	34	2754.0	515	2754.0	555	2754.0	540.	250
36	...		2756.0	35	2756.0	530	2756.0	580	2756.6	581.	260
37	...		2758.0	36	2758.0	545	2758.0	600	2758.2	600.	270
38	...		0.090	0.110	0.040	0.0					280
39	...		0.	0.0	0.0	0.0	7.11	500.00	585.00	0.0	290
40	...		0.16	0.	0.	0.	40.	40.	40.	0.0	300
41	...		0.	0.0	0.0	0.0	7.11	500.00	585.00	0.0	310

801

X1	0.16	48.	600.	1.	1.	1.	0.0	0.0	0.	320
BT	0.0	400.0	278.	0.0	496.0	2763.0	0.0	496.0	2763.0	330
BT	400.0	2781.3	278.	400.0	2761.7	0.0	700.0	2759.5	0.0	340
GR	2764.5	35.	274.	100.	2764.9	200.	2764.0	300.	2763.5	350
GR	2763.0	496.	2737.	496.	2758.0	500.	2737.3	505.	2760.5	360
GR	2760.4	508.	2757.	508.	2757.5	517.	2760.5	517.	2760.2	370
GR	2757.6	518.	275.	532.	2760.1	532.	2760.0	533.	2757.6	380
GR	2757.5	532.	275.	545.	2759.9	545.	2759.8	546.	2752.2	390
GR	2747.0	545.	274.	572.	2750.6	572.	2759.5	573.	2745.6	400
GR	2744.0	545.	274.	572.	2750.6	572.	2759.5	573.	2745.6	410
GR	2744.0	545.	274.	572.	2750.6	572.	2759.5	573.	2745.6	420
GR	2739.4	585.	275.	585.	2756.5	585.	2758.0	600.	2761.7	430
GR	2739.5	700.	2757.	800.	2756.5	876.	0.0	0.	0.0	440
ET	0.	0.0	0.	0.0	0.0	7.11	500.00	585.00	0.0	450

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

X1	0.16	21.	545.	600.	1.	1.	1.	0.0	0.0	490
GR	2764.5	35.	274.5	100.	2763.0	200.	2762.1	300.	2760.0	500
GR	2757.9	496.	2758.0	500.	2752.3	545.	2747.0	555.	2745.0	510
GR	2744.0	545.	2745.5	572.	2746.8	573.	2748.0	580.	2751.6	520
GR	2733.4	585.	2756.5	585.	2757.8	600.	2756.2	700.	2755.5	530
GR	2736.5	875.	0.0	0.	0.0	0.	0.0	0.	0.0	540
MC	0.110	0.110	0.035	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	560

X1	0.16	0.	0.	0.	10.	10.	10.	0.0	0.0	570
MC	0.070	0.120	0.045	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	590

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

X1	0.28	0.	0.	0.	40.	40.	40.	0.0	0.0	660
X2	10.	0.0	0.0	0.	0.0	0.	0.0	2771.0	2771.0	670
SB	1.20	1.00	3.00	0.	28.80	0.01	300.00	0.0	2759.2	680
ET	0.	0.0	0.0	0.0	0.0	7.11	750.00	860.00	0.0	690

X1	0.28	22.	762.	808.	30.	30.	30.	0.0	0.0	700
X2	0.	0.0	1.	2769.6	2770.0	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	720
BT	400.0	2772.4	0.0	500.0	2772.5	0.0	500.0	2772.8	0.0	730
BT	2772.9	0.0	770.0	2772.9	0.0	770.0	2773.3	0.0	800.0	740
BT	0.0	800.0	2772.9	0.0	900.0	2771.5	0.0	1020.0	2770.0	750
BT	1330.0	2770.0	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	770

C01

GA	2769.8	600.	2771.5	674.	2771.7	762.	2764.0	765.	2763.0	770.	780
WA	2761.5	770.	2761.2	772.	2760.9	772.	2760.4	775.	2760.4	780.	790
MA	2759.2	730.	2759.5	785.	2761.2	890.	2772.7	808.	2771.7	900.	800
SA	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

GA	2790.3	36.	2780.7	405.	2778.2	470.	2778.0	480.	2777.7	490.	860
WA	2777.6	570.	2776.3	608.	2777.2	688.	2770.3	707.	2767.7	717.	870
MA	2769.5	716.	2769.0	720.	2769.5	726.	2770.3	732.	2777.5	745.	880
SA	2776.9	749.	2777.0	760.	2785.0	760.	2785.0	760.	2777.7	790.	890
GA	2778.0	810.	2778.3	850.	2777.9	950.	2777.6	1000.	2776.0	1150.	910
WA	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
GA	2810.0	60.	2801.1	100.	2793.0	200.	2793.0	300.	2793.7	400.	960
WA	2793.5	500.	2793.0	600.	2793.0	632.	2792.5	660.	2790.1	665.	970
MA	2788.0	665.	2787.5	670.	2787.3	675.	2787.2	680.	2787.3	685.	980
SA	2787.0	690.	2785.5	700.	2792.5	700.	2792.5	830.	2791.6	900.	990
GA	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
SA	1.23	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
GA	2810.0	60.	2801.1	100.	2793.0	200.	2793.0	300.	2793.7	400.	1150
WA	2793.5	500.	2793.0	600.	2793.0	632.	2792.5	660.	2790.1	665.	1160
MA	2788.0	665.	2787.5	670.	2787.3	675.	2787.2	680.	2787.3	685.	1170
SA	2787.0	690.	2785.5	700.	2792.5	700.	2792.5	830.	2791.6	900.	1180
GA	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
GA	2810.0	60.	2801.1	100.	2793.0	200.	2793.0	300.	2793.7	400.	1220
WA	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.	710.	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	7.	1290
GR 2824.2	41.	2812.8	94.	2809.5	210.	2810.0	267.	2805.2	360.	1300
GR 2802.0	280.	2802.5	295.	2803.8	300.	2809.5	307.	2810.0	495.	1310
GR 2820.0	360.	2820.0	400.	2810.5	400.	2810.5	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.	1.50	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	307.	2805.0	299.	1420
GR 2810.0	299.	2809.9	400.	2809.4	450.	2809.2	430.	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	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.	2810.5	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
MC 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	630.	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	2811.0	9.0	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	2819.5	0.0	560.0	2820.0	1700	
BT	0.0	560.0	2821.5	0.0	600.0	2821.5	0.0	0.0	600.0	2820.5	0.0	1710
BT	638.0	2818.0	0.0	660.0	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	430.00	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	774.	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.	2877.5	440.	2876.4	440.	2120
GR	2876.4	446.	2868.8	463.	2867.8	477.	2877.8	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	690.	2150
GR	2876.2	680.	2876.2	700.	2875.8	750.	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	325.	2888.3	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.	2908.4	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	2399.6	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.	2891.3	228.	2890.5	233.	2620
GR	2891.2	238.	2891.5	240.	2891.8	242.	2892.3	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	1237.	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	462.	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	23.	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	1.78	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.	2928.6	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	25.0	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.	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 .080

3280 CROSS SECTION 0.02 EXTENDED 2.10 FEET

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	GLOSS	CORAR	ENDST		VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
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		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	GLOSS	CORAR	ENDST		VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
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

\*SECHO .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

\*SECHO .150

\*\*\* 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

\*SECHO .160

3265 DIVIDED FLOW

3280 CROSS SECTION 0.16 EXTENDED 1.07 FEET

L01

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

\*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

\*SECNO .280

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

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	2769.50	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

\*SECNO .280

\*\*\* 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			

7185 MINIMUM SPECIFIC ENERGY

K01

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.	900.00

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

3240 CROSS SECTION 0.37 EXTENDED 1.58 FEET

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	CRIMS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	MSELK	VLOB	VCH	VROB	HL	EG			
SLOPE	MTN	XBL	XNCH	XNR	QLOSS	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.	-0.53	12	2777.20		
8.48	0.0	0.98	9.34	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		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRIMS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	MSELK	VLOB	VCH	VROB	HL	EG			
SLOPE	MTN	XBL	XNCH	XNR	QLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST		VOL

3685 20 TRIALS ATTEMPTED MSEL, CMSEL

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		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRIMS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	MSELK	VLOB	VCH	VROB	HL	EG			
SLOPE	MTN	XBL	XNCH	XNR	QLOSS	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

0.53	3700.	20.	2038.	1642.	0.75	20	751.
2793.14	2793.14	34.	223.	713.	0.0:	5	2792.50
7.64	0.0	0.59	9.14	2.30	0.83	2793.90	2792.50
0.012857	0.046	0.100	0.050	0.100	0.00	0.0	198.21
	2785.50	65.	65.	65.	482.	520.	1200.00

\*SECHO .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	COFO	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	30.30	0.01	100.00	0.0
	ELCHJ	ELCHD						
	2787.00	2787.00						

\*SECHO .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

2GPRS	EGLMC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2828.00	2794.22	0.00	3455.	244.	100.	100.	2790.40
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

\*SECHO .530

3265 DIVIDED FLOW

C02

3280 CROSS SECTION 0.53 EXTENDED 3.23 FEET

0.53	3700.	320.	184.	1884.	0.24	0	953.	
2794.03	0.0	370.	250.	1083.	0.01	0	2792.50	
8.53	0.0	0.87	5.7%	1.77	0.04	2794.27	2792.50	
0.004220	0.046	0.100	0.050	0.100	0.00	-0.00	187.22	
	2789.50	10.	10.	10.	493.	520.	1200.00	40.

\*SECNO .690

3245 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOOD			08/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPMID	
ELEV	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	MSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	MTN	XBL	XNCH	XNR	QLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDS	VOL

3685 20 TRIALS ATTEMPTED MSEL, CMSEL  
 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.	205.	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	TOPMID	
ELEV	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	MSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	MTN	XBL	XNCH	XNR	QLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7:85 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	10.7%	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



002

3370 NORMAL BRIDGE, NR0= 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	2812.42	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.

\*SECHO .720

\*\*\* GR CARDS REPEATED

3370 NORMAL BRIDGE, NR0= 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.

\*SECHO .720

\*\*\* GR CARDS REPEATED

3370 NORMAL BRIDGE, NR0= 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.

\*SECHO .720

\*\*\* GR CARDS REPEATED

3370 NORMAL BRIDGE, NR0= 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	101.81	
	2802.00	10.	10.	10.	185.	217.	504.34	67.

\*SECHO .760

\*\*\* GR CARDS REPEATED

ALLEN CREEK 100 YEAR FLOOD 08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPMID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	YNR	QLOSS	CRAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	EN051	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.

\*SECHO .840

ALLEN CREEK

100 YEAR FLOOD 08/01/81

E02

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPNID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	MTH	XNL	XNCH	XNR	QLOSS	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	COFA	RDLEN	BWC	BMP	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	
0.008408	0.048	0.090	0.050	0.090	0.03	-0.00	411.38	
	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	TOPNID	
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.

\*SENO .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	TOP MID	
ELEV	CRIMS	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.

\*SENO 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.

\*SENO 1.120

3265 DIVIDED FLOW

3280 CROSS SECTION 1.12 EXTENDED 0.54 FEET

3301 HV CHANGED MORE THAN HVINS

602

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 1.0% FEET

ALLEN CREEK

100 YEAR FLOOD

08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XML	XMCH	XNR	QLOSS	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 1.5% FEET

ALLEN CREEK

100 YEAR FLOOD

08/01/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XML	XMCH	XNR	QLOSS	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

602

ELCHJ 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	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTH	XML	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLMC	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			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTH	XML	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	CRIMS	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

1.64	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	CRIMS	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

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	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	WSDH	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	
0.011695	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 1.66C

\*\*\* 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 1.66D  
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 1.66E

\*\*\* 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.

K02

\*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	IDC	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	EG	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	CORAR	SSTA		
SLOPE	MTN	XNL	XNCH	XNR	OLOSS	WSDR	ENDST		VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL				
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	800.	800.	800.	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		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	IDC	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	EG	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	CORAR	SSTA		
SLOPE	MTN	XNL	XNCH	XNR	OLOSS	WSDR	ENDST		VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL				
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



L02

3370 NORRIDGE 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.

\*SECTO 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.

\*SECTO 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.

\*SECTO 1.940

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	JDC	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

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

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

M02

ELCHU ELCHD  
2922.50 2922.50

\*SECNO 1.94C

\*\*\* GR CA'DS 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 1.94D

3265 DIVIDED FLOW

1.94	3600.	290.	2668.	643.	0.87	8	518.	
2930.44	2929.83	169.	308.	359.	-0.39	0	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		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRWS	ALOB	ACH	AROB	D4V	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SS1A		
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

1.98	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	
	2924.30	180.	180.	180.	51.	580.	1012.59	192.

SPECIAL BRIDGE

SS	HK	XKOR	COFQ	ADLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	21.40	0.01	165.00	0.0
ELCH1		ELCH2						
2924.40		2924.40						

\*SECTO 1.980  
 6870 D.S. ENERGY OF 2935.56 HIGHER THAN COMPUTED ENERGY OF 2934.98

3265 DIVIDED FLOW  
 PRESSURE AND WEIR FLOW

EGPRS	EGLIC	IS	GMXR	GPR	BAREA	TAREA	ELLC
2934.98	2934.94	0.00	3097.	525.	165.	167.	2932.20

2.51.

1.98	600.	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.

\*SECTO 1.980

\*\*\* CR CARDS REPEATED

3265 DIVIDED FLOW

ALLEN CREEK

100 YEAR FLOOD 09/01/81

MILE	Q	QLOB	GCH	GRQB	HV	ITRIAL	TOPMID	
ELEV	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	MSLK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XEL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
1.98	3600.	71.	1932.	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.	

\*SECTO 2.130

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK

100 YEAR FLOOD 09/01/81

MILE	Q	QLOB	GCH	GRQB	HV	ITRIAL	TOPMID	
ELEV	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	MSLK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XEL	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	3400.	0.	3071.	529.	1.44	20	241.
2949.92	2949.92	0.	296.	259.	0.71	21	2951.20
6.92	0.0	0.0	10.38	2.04	7.65	2951.36	2951.00
0.013148	0.049	0.080	0.050	0.120	0.46	-0.00	339.08
	2943.00	780.	780.	780.	29.	300.	668.00
							209.

C03

THIS RUN EXECUTED 08/01/91 8:23:39

\*\*\*\*\*  
NEC2 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	ING	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	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNH	ITRACE	
	15.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	4010

\*PROF 2

CGHY= 0.100 CENV= 0.500

\*SECNO .020

3200 CROSS SECTION 0.02 EXTENDED 3.10 FEET

ALLEN CREEK			100 YEAR FLOODWA	08/01/81					
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRINS	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
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.	3896.	0.	3.10	4	43.		
2753.97	2753.13	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	0.045	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.	3881.	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.

\*SECTNO .160  
3700. BRIDGE STENCL= 500.00 STENCR= 585.00

3265 DIVIDED FLOW

ALLEN CREEK		100 YEAR FLOODWA			08/01/81			
MPLE	Q	QLOB	QCH	QROB	HV	ITRYAL	TOPMID	
ELEV	CRIMS	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	MSDL	MSDR	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.	374.	0.	0.23	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.

\*SECTNO .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.	
2758.69	0.0	0.	386.	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.

\*SECTNO .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.	185.	3535.	0.	1.25	2	76.	
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	10000.00	
0.007085	0.045	0.110	0.055	0.110	0.01	-0.00	501.61	
	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	QLOSS	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	12	2769.00	
8.24	2767.26	0.0	12.79	3.38	6.57	2769.57	2761.20	
0.016212	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	QLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPT:1 ASSUMED

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



G03

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	BMC	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						

\*SECTO .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.

\*SECTO .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.

\*SECTO .370  
 3280 CROSS SECTION 0.37 EXTENDED 0.61 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

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	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=		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	
8.65	2790.35	1.80	9.80	2.41	10.63	2792.43	2789.70	
0.011001	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	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=		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 REFEATED

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	YKOR	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.	609.	-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.	7.58	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	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=	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	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		
0.72	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	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= 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	2809.50	
0.003731	0.047	0.100	0.050	0.100	0.00	-0.00	220.00	
	2802.00	10.	10.	10.	67.	73.	360.00	44.

\*SECNO .760

\*\*\* GR CARDS REPEATED

ALLEN CREEK		100 YEAR FLOODWA			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	XL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLGBL	XLCH	XLGBR	WSDL	WSDR		

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		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	XL	XNCH	XNR	OLOSS	CORAR	ENDST	VOL
	ELMIN	XLGBL	XLCH	XLGBR	WSDL	WSDR		

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	COFO	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 2821.33 EGLWC 2820.62 H3 0.00 QWEIR 1313. QPR 2396. BAREA 240. TAREA 244. ELLC 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 0 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 WTM XNL XMCH 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.  
 2829.20 0.0 2. 31. 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.

\*SECTO 1.050

\*\*\* GR CARDS REPEATED

3470 ENCROACHMENT STATIONS=	705.0	770.0	TYPE=	1	TARGET=	65,000	
1.03	3450.	0.	3450.	0.	2.44	2	55.
2834.15	0.0	0.1	291.	0.0	0.36	0	2835.90
7.35	2834.74	0.68	12.53	0.0	7.11	2838.59	2838.90
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.

\*SECTO 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	3450.	1.	3419.	0.	0.73	4	80.
2844.38	0.0	2.	533.	0.0	-1.71	0	2843.50
8.78	2844.04	0.80	6.83	0.0	6.34	2845.10	100000.00
0.004502	0.048	0.090	0.050	0.090	0.17	-0.00	820.00
	2839.60	750.	750.	750.	41.	39.	900.00
							69.

\*SECTO 1.320

3280 CROSS SECTION 1.32 EXTENDED 1.03 FEET

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODMA			08/01/81			
MILE	Q	GLOB	GCH	GROB	HV	ITRIAL	TOPWID	
ELEV	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	MTN	XCL	XNCH	XNR	LOSS	CORAR	SSTA	
	ELMIN	XLGBL	XLCH	XLOBR	MSDL	MSDR	ENDST	VOL

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

3470 ENCROACHMENT STATIONS=	680.0	750.0	TYPE=	1	TARGET=	70,000	
1.32	3450.	0.	3450.	0.	2.86	20	48.
2842.23	2842.23	0.	299.	0.	2.13	16	2842.00
6.23	2843.01	0.70	13.56	0.0	9.04	2845.79	2844.00
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.

\*SECTO 1.440

3280 CROSS SECTION 1.44 EXTENDED 0.85 FEET



B04

3470 ENCROACHMENT STATIONS=	445.0	540.0	TYPE=	1	TARGET=	95,000	
1.44	3450.	0.	3450.	0.	2.37	7	50.
2875.84	2875.24	0.	295.	1.	-0.48	11	2876.40
8.24	2876.52	0.0	12.36	0.39	13.08		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.	508.70
							82.

SPECIAL BRIDGE

SB	HK	XKOR	COFO	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	37.70	0.01	275.00	0.0
	ELCMI	ELCMD						
	2867.20	2867.20						

\*SECTO 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			
HALE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	ES	LEFT/RIGHT	
SLOPE	MTN	XNL	XNCH	XNR	QLOSS	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.	188.	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.

\*SECTO 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.

\*SECTO 1.530

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81				
MILE	Q	GLOB	GCH	GRDB	HV	ITRIAL	TOPMID		
ELEV	CRIMS	ALOB	ACH	ARDB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTH	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.

\*SECTO 1.640

ALLEN CREEK		100 YEAR FLOODWA			08/01/81				
MILE	Q	GLOB	GCH	GRDB	HV	ITRIAL	TOPMID		
ELEV	CRIMS	ALOB	ACH	ARDB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTH	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	
	2897.80	540.	540.	540.	22.	102.	330.00	91.

\*SECTO 1.660

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81				
MILE	Q	GLOB	GCH	GRDB	HV	ITRIAL	TOPMID		
ELEV	CRIMS	ALOB	ACH	ARDB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTH	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 KVINS

ALLEN CREEK		100 YEAR FLOODWA			08/01/81			
MILE	Q	QLOB	QCH	QROB	IV	ITRIAL	TOPMID	
ELEV	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	MSLK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	LOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WDL	WDR	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.	1895.	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	
	2899.50	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.	1829.	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	
	2899.50	30.	30.	30.	21.	221.	450.00	93.

\*SECNO 1.660  
3280 CROSS SECTION 1.66 EXTENDED 3.03 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.

\*SECHO 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.

\*SECHO 1.780

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK			100 YEAR FLOODMA	08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPMID	
ELEV	CRINS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTH	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.

\*SECHO 1.780

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK			100 YEAR FLOODMA	08/01/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPMID	
ELEV	CRINS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTH	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

\*SECNO 1.780

3700. BRIDGE STENCL= 440.00 STENCR= 700.00

3370 NORMAL BRIDGE,MRD= 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	0.07	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

\*SECNO 1.780

\*\*\* GR CARDS REPEATED

3370 NORMAL BRIDGE,MRD= 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

\*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.	82.	382.	205.	0.52	0	2908.00
11.03	2913.29	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

\*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	440.00	
	2903.70	10.	10.	10.	44.	216.	700.00	105.

\*SECNO 1.940

3301 HV CHANGED MORE THAN HVINS

ALLEN CREEK		100 YEAR FLOODMA			03/01/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	MSELK	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 TRZALS 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	COFR	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	37.20	0.01	137.50	0.0
	ELCHJ	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

H04

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

\*SECTO 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.

\*SECTO 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	ITPVAL	TOPWID		
ELEV	CRWS	ALOB	ACH	AROB	DHV	SC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EC	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=	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						

\*SECTO 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 FLC:

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2946.52	2937.48	0.01	2161.	1439.	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	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	MTN	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	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	MTN	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.



\*\*\*\*\*  
 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.

X04

## L04

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
*	0.510	2790.35	0.0	2791.10	754.	0.	0.	0.	660.	700.	21.	2032.	1646.
*	0.510	2791.36	1.01	2792.43	350.	350.	550.	900.	660.	700.	231.	2583.	886.
*	0.530	2793.14	0.0	2793.90	751.	0.	0.	0.	660.	700.	20.	2038.	1642.
*	0.530	2794.10	0.95	2795.11	370.	370.	550.	920.	660.	700.	210.	2522.	968.
	0.530	2793.93	0.0	2794.22	1012.	0.	0.	0.	660.	700.	292.	1472.	1936.
	0.530	2795.01	1.02	2795.46	370.	370.	550.	920.	660.	700.	374.	2080.	1247.
	0.530	2793.99	0.0	2794.22	1012.	0.	0.	0.	660.	700.	294.	1469.	1937.
	0.530	2795.02	1.02	2795.46	370.	370.	550.	920.	660.	700.	376.	2073.	1251.
	0.530	2794.03	0.0	2794.27	953.	0.	0.	0.	660.	700.	320.	1496.	1884.
	0.530	2795.00	0.97	2795.59	310.	370.	550.	920.	660.	700.	407.	2272.	1022.
*	0.690	2809.59	0.0	2811.00	307.	0.	0.	0.	267.	307.	198.	3113.	389.
*	0.690	2809.37	-0.22	2811.47	140.	140.	220.	360.	267.	307.	93.	3494.	113.
*	0.720	2811.11	0.0	2812.50	308.	0.	0.	0.	267.	307.	202.	3102.	395.
	0.720	2811.52	0.40	2813.06	140.	140.	220.	360.	267.	307.	168.	3333.	199.
	0.720	2812.36	0.0	2812.62	394.	0.	0.	0.	271.	299.	814.	1280.	1606.
*	0.720	2811.99	-0.37	2813.37	140.	140.	220.	360.	271.	299.	644.	2403.	654.
	0.720	2812.64	0.0	2812.85	404.	0.	0.	0.	271.	299.	862.	1180.	1658.
	0.720	2813.45	0.81	2814.02	140.	140.	220.	360.	271.	299.	885.	1878.	938.
	0.720	2812.52	0.0	2812.98	400.	0.	0.	0.	267.	307.	453.	2388.	859.
	0.720	2813.39	0.87	2814.10	140.	140.	220.	360.	267.	307.	345.	2953.	402.
	0.720	2812.57	0.0	2813.01	403.	0.	0.	0.	267.	307.	463.	2363.	873.
	0.720	2813.44	0.86	2814.14	140.	140.	220.	360.	267.	307.	350.	2944.	406.
	0.760	2813.26	0.0	2814.00	372.	0.	0.	0.	267.	307.	347.	2646.	707.
	0.760	2814.21	0.95	2815.09	140.	140.	220.	360.	267.	307.	315.	3017.	368.
*	0.840	2819.42	0.0	2820.58	326.	0.	0.	0.	560.	600.	369.	3040.	292.
*	0.840	2818.85	-0.57	2820.80	150.	150.	480.	630.	560.	600.	203.	3447.	45.
	0.840	2819.48	0.0	2820.58	328.	0.	0.	0.	560.	600.	385.	3003.	312.
	0.840	2820.43	0.95	2821.33	150.	150.	480.	630.	560.	600.	531.	3012.	158.
	0.840	2819.84	0.0	2820.68	339.	0.	0.	0.	560.	600.	468.	2819.	413.
	0.840	2820.53	0.69	2821.39	150.	150.	480.	630.	560.	600.	548.	2988.	164.
*	0.900	2822.49	0.0	2823.77	321.	0.	0.	0.	560.	600.	335.	3115.	250.
	0.900	2822.03	-0.46	2824.28	100.	100.	530.	630.	560.	600.	45.	3609.	45.
*	0.980	2828.42	0.0	2831.17	51.	0.	0.	0.	709.	760.	0.	3650.	0.
	0.980	2829.22	0.80	2831.30	55.	65.	705.	770.	709.	760.	4.	3646.	0.
	1.050	2836.74	0.0	2838.73	76.	0.	0.	0.	709.	760.	8.	3637.	5.
	1.050	2836.15	-0.59	2838.59	55.	65.	705.	770.	709.	760.	0.	3650.	0.
	1.120	2844.04	0.0	2844.74	341.	0.	0.	0.	822.	900.	63.	3486.	101.
	1.120	2844.38	0.34	2845.10	80.	80.	820.	900.	822.	900.	1.	3649.	0.

MO4

	SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QL08	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.

SECTO	CMSL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROP
1.940	2930.44	0.0	2931.32	518.	0.	0.	0.	608.	650.	290.	2448.	643.
1.940	2930.99	0.35	2932.13	110.	110.	575.	685.	808.	850.	199.	3082.	340.
* 1.980	2934.73	0.0	2935.56	606.	0.	0.	0.	418.	448.	58.	2212.	1330.
* 1.980	2934.69	-0.04	2937.47	75.	100.	410.	510.	418.	448.	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.	0.	336.	400.	0.	3071.	529.
* 2.130	2949.74	-0.18	2952.22	58.	85.	335.	400.	336.	400.	0.	3800.	0.

## SUMMARY OF ERRORS

CAUTION SECTO= 0.080 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECTO= 0.280 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECTO= 0.280 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECTO= 0.280 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE USEL

CAUTION SECTO= 0.280 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECTO= 0.280 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECTO= 0.280 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECTO= 0.370 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECTO= 0.370 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECTO= 0.510 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECTO= 0.510 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECTO= 0.510 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE USEL

CAUTION SECTO= 0.510 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECTO= 0.530 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECTO= 0.530 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECTO= 0.530 PROFILE= 1

20 TRIALS ATTEMPTED TO BALANCE USEL

CAUTION SECTO= 0.530 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECTO= 0.530 PROFILE= 2

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECTO= 0.530 PROFILE= 2

20 TRIALS ATTEMPTED TO BALANCE USEL

CAUTION SECTO= 0.690 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECTO= 0.690 PROFILE= 1

PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECTO= 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= 1.760 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

FLOODWAY DATA, ALLEN CREEK  
 PROFILE NO. 2

STATION	WIDTH (FT)	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
				WITH FLOODWAY	WITHOUT FLOODWAY	
0.020	90.	443.	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.	281.	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.	680.	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
0.780	140.	680.	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	2843.0	2843.0	0.0
1.440	95.	296.	12.5	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	2885.5	2885.5	0.0
1.640	125.	382.	9.6	2896.6	2896.1	0.5
1.660	245.	586.	6.2	2899.4	2899.4	0.0
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.	879.	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	WIDTH (FT)	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		
				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

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A01

THIS RUN EXECUTED 08/01/81 8:23:51

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TEL SE LATED 1979 TO UPDATED JUL 1979  
IN CR: 01 02 15  
DEFINITION - 50.55, 2,55,34  
\*\*\*\*\*

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20  
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801

SUMMARY OF ERRORS FOR IS JOB ERROR NUMBER NUMBER OF ERRORS

219

9