

MILL CREEK

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XXXXXXXX  XXXXXX  XXX  XXXXXXXX  XXXXX
X  X  Y  X  X  X  X  X  X  X
X  X  X  X  X  X  X  X  X
XXXX  X  X  X  X  XXXXX  XXXXX
X  Y  Y  X  X  X  X
X  X  X  X  X  X  X  X
XXXXXXXX  XXXXXX  XXX  XXX  XXXXXXXX

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4.2
4
16.8

4.3
4
17.2

*GENERAL MESSAGE

*make corrections
out & key punch*

OK

*add
further info*

*EDIT-2 MESSAGE

16 JUNE --

AN IMPROVED VERSION OF THE EDIT-2 PROGRAM HAS BEEN LOADED ON THIS SYSTEM. IT NOW PROVIDES AN ENHANCED MODELING ANALYSIS FOR APPLICATIONS OF THE HEC-2 SPECIAL BRIDGE ROUTINE. IT CHECKS FOR THE PRESENCE OF X3 CARDS AT THE UPSTREAM AND DOWNSTREAM BRIDGE SECTIONS, CHECKS ELLEA (X3.8) AND ELREA (X3.9) FOR REASONABLENESS, AND COMPARES DATA FOR YARNELL'S TRAPAZOID WITH UPSTREAM AND DOWNSTREAM CHANNEL WIDTHS. THE SPECIAL BRIDGE DIAGNOSTICS ARE INDICATED BY THE JORD - CAUTION -.

THE IMPROVED VERSION OF THE PROGRAM CAN NOW ANALYZE MULTIPLE CI CARDS AND WILL RECOGNIZE IC CARDS.

THE NO LIST OPTION ON THE ED CARD WILL NOW SUPPRESS THE PROGRAM BANNER PAGE IN ADDITION TO THE DATA LISTING.

QUESTIONS REGARDING THESE MODIFICATIONS MAY BE ADDRESSED TO AL MONTALVO OR RICHARD HAYES AT (FTS) 448-2105 OR (916) 440-2105.

T1 NORTH CAROLINA FLOOD INSURANCE SJGDY IC 3380-12 3. BOREDA
 T2 MILL CREEK, CITY OF JACKSONVILLE
 T3 19 YEAR FLOOD

J1	2.			.0030				2.5		
J2		-1.								
J3150.	200.	201.	110.							
J51.										
WC.12	.12	.07								
QT	5.	526.	1118.	1451.	2515.	1451.				
X1	1.	23.	535.	600.						
GR	17.5		29.	207.	19.3	245.	13.5	300.	2.4	365.
GR	1.5	466.	1.3	500.	2.	535.	-.5	536.	-4.5	565.
GR	3.7	549.	0.	596.	1.3	600.	2.5	620.	14.5	663.
GR	16.5	700.	8.2	778.	8.2	798.	9.5	800.	12.2	855.
GR11.2	900.	10.5	1000.	15.	1100.					
X12.1	17.	400.	442.							
GR	17.2	17.3	225.	1.8	400.	.5		402.	-.5	403.
GR	2.4	420.	-1.2	434.	.4	439.	3.8	442.	5.7	455.

GR 5.7	555.	8.	580.	8.4	600.	7.8	700.	8.7	800.
GR 10.3	900.	15.	1000.						
NC		.07	.3	.5					
X1 2.2	17.	288.	407.						
X310.							10.8	10.8	
GR14.4		11.7	288.	8.2	288.	8.2	294.	3.3	398.
GR2.3	318.	2.1	323.	-1.2	327.	-1.2	360.	1.8	368.
GR3.4	372.	3.3	382.	3.8	394.	8.2	400.	6.2	407.
GR11.8	500.	14.4	800.						
SB 1.	1.6	2.9		40.	1.	824.	3.27	-1.2	-1.2
X12.3	0.	0.	0.	75.5	75.5	75.5			
X2		1.	9.9	11.7					
X310.							11.7	11.7	
BT5.	6.	13.		144.	11.7	0.	400.	11.7	0.
BT500.	11.9		800.	14.5					
X12.4	0.	0.	0.	100.	100.	100.			
QT 5.	550.	1096.	1424.	2470.	1424.				
X13.	17.	493.	442.	1200.	1460.	1300.			
GR 17.2		17.3	225.	1.8	433.	.5	402.	-0.5	403.
GR-2.4	420.	-1.2	434.	.4	439.	3.8	442.	5.7	455.
GR 5.7	555.	5.	580.	8.4	600.	7.8	700.	8.7	800.
GR 10.3	900.	15.	1000.						
QT 5.	447.	901.	1174.	2056.	1174.				
X1 9.	18.	475.	500.	1800.	2100.	1800.			
GR24.5	0.	24.5	50.	21.5	100.	20.	200.	21.5	235.
GR5.5	300.	7.	400.	2.	475.	1.	485.	-1.5	486.
GR-1.4	490.	1.	495.	6.8	500.	8.3	600.	19.2	640.
GR23.	700.	24.5	800.	24.	900.				
X114.	174	470.	500.						
GR21.	0.	21.	50.	19.3	100.	19.	200.	18.9	300.
GR20.5	370.	16.	400.	5.	440.	6.	470.	1.5	475.
GR4.	490.	7.	500.	9.	535.	21.	600.	22.5	700.
GR23.	800.	25.	900.						
X115.1	19.	465.5	512.						
GR27.5	0.	27.5	50.	26.7	100.	23.5	200.	18.5	300.
GR15.	400.	14.1	455.5	9.	465.5	4.1	475.	4.07	485.5
GR4-03	492.7	4.29	500.	9.	512.	13.	515.	14.1	530.
NC		.07	.3	.5					
X115.2	19.	482.5	502.5	300.	300.	300.		.16	
X310.							11.6	11.6	
GR27.5	0.	27.5	50.	26.7	100.	23.5	200.	18.5	300.
GR15.	400.	14.1	455.5	9.	465.	4.5	475.	4.07	482.5
GR4.	502.5	4.5	505.	9.	512.	13.	520.	14.1	530.
GR15.5	600.	19.	700.	24.	800.	28.	900.		
SB1.05	1.6	2.6		9.	1.	55.	.6	4.	4.
X115.3	0.	7.	0.	53.	83.	83.		.13	
X2		1.	9.	14.1					
X310.							14.1	14.1	
BT10.	0.	27.5		50.	27.5		100.	26.7	
BT200.	23.5		400.	15.		455.5	14.1		530.
BT14.1		600.	15.5		800.	24.		900.	28.
BT.									
X115.4	19.	465.5	512.	100.	100.	100.		.34	
GR27.5	0.	27.5	50.	26.7	100.	23.5	200.	18.5	300.
GR15.	400.	14.1	455.5	9.	465.5	4.1	475.	4.07	485.5
GR4-03	492.7	4.29	500.	9.	512.	13.	515.	14.1	530.

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398

OK

OK

OK

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GR15.3	600.	19.	700.	24.	800.	28.	900.			
QT5.	400.	812.	1051.	1867.	1061.					
VC		.07	.1	.3						
X116.1	136.	638.5	650.	3000	3000	50.50				
X4.1.	20.	200.								
GR2.5		19.7	245.	19.2	250.	18.5	350.	18.	450.	
GR14.5	615.	9.	625.	8.3	638.5	8.6	650.	9.	658.	
GR14.	668.	20.7	750.	26.8	1050.					
NC		.07	.3	.5						
X116.2	0.	0.	0.	100.	100.	100.				
X310.							17.	17.		
SB1.05	1.6	2.6		11.5	1.	73.	0.	8.46	8.46	
X116.3	0.	0.	0.	104.	104.	104.				
X2		1.	14.5	18.5						
X310.							18.5	19.4		
BT11.	0.	21.		50.	19.7		100.	19.2		
BT20.	16.5		300.	13.		400.	18.6		485.	
BT10.3		500.	19.5		600.	20.7		700.	22.50	
BT	900.	26.8								
X116.4	0.	0.	0.	100.	100.	100.				
VC		.07	.1	.3						
X117.1	11.	597.5	602.5	300.	500.	400.				
GR28.	0.	27.5	20.	26.2	55.	25.5	200.	23.6	300.	
GR14.26	597.5	10.26	597.5	10.26	602.5	14.26	602.5	28.5	900.	
GR32.	100.									
X117.2	0.	0.	0.	50.	50.	50.				
X310.							18.5	18.5		
S31.05	1.6	2.6		5.25	.25	20.	0.	10.26	10.26	
X117.3	0.	0.	0.	70.5	70.5	70.5				
X2		1.	14.26	22.75						
X310.							22.75	22.75		
BT 8.	0.	28.		20.	27.5		55.	26.2		
BT200.	25.5		300.	23.6		600.	22.75		900.	
BT28.5		1000.	32.							
X117.4	0.	0.	0.	50.	50.	50.				
GR28.	0.	27.5	20.	26.2	55.	25.5	200.	23.6	300.	
GR14.26	597.5	10.26	597.5	10.26	602.5	14.26	602.5	28.5	900.	
GR32.	100.									
X118.1	11.	390.	400.	0.	100.	600.		.04		
GR28.	0.	27.5	25.	26.2	55.	25.5	200.	15.23	390.	
GR10.23	391.75	10.23	398.25	15.23	400.	21.9	500.	23.	600.	
GR30.8	100.									
X118.2	0.	0.	0.	50.	50.	50.				
X310.							18.76	18.76		
S31.05	1.6	2.6		6.5	.5	39.3	.35	10.23	10.19	
X118.3	0.	0.	0.	77.50	77.5	77.5				
X2		1.	15.23	21.9						
X310.							22.3	22.4		
BT 10.	0.	28.		25.	27.5		55.	26.2		
BT200.	25.5		390.	22.3		400.	22.4		500.	
BT21.8		600.	22.50		900.	28.5		1000.	30.8	
X118.4	11.	390.	400.	100.	100.	100.		.05		
GR28.	0.	27.50	25.	26.2	55.	25.5	200.	15.23	390.	
GR10.23	391.75	10.23	398.25	15.23	400.	21.9	500.	23.	600.	

592.5 601.5

GR30.8 1000.

NC		.07	.1	.3	1400	1500			
X119.	13.	490.	500.	1600.	1400.	1400.			
GR41.5	0.	40.5	100.	37.2	200.	34.	300.	21.8	465.
GR21.7	490.	19.	495.	21.7	500.	26.7	600.	33.6	700.
GR35.5	800.	43.8	870.	44.5	800.				
X120.1	144	398.25	402.25	800.	900.	900.			
GR41.	0.	35.7	200.	33.7	300.	32.13	385.	26.91	388.
GR25.	392.	23.16	398.25	23.16	402.25	24.2	406.	26.91	414.
GR32.13	418.	33.2	500.	36.8	700.	39.	800.		
NC		.07	.3	.5					
X120.2	0.	0.	0.	50.	50.	50.		.02	
X310.							29.52	29.52	
S31.05	1.6	2.6		3.5	.25	12.6	0.	23.16	23.08
X120.3	0.	0.	0.	70.	70.	70.		.08	
X2		1.	26.91	32.13					
X310.							32.13	32.13	
BT8.	0.	41.		200.	35.70		300.	33.7	
BT355.	32.13		418.	32.13		500.	33.2		700.
BT36.8		900.	39.						
X120.4	0.	0.	0.	100.	100.	100.		.1	
EJ									

OK

T1 NORTH CAROLINA FLOOD STUDIES.
T2 MILL CREEK, CITY OF JACKSONVILLE.
T3 50-YEAR FLOOD.

J1 3. .0030 2.5
J22.

T1 NORTH CAROLINA FLOOD STUDIES.
T2 MILL CREEK, CITY OF JACKSONVILLE.
T3 100-YEAR FLOOD.

J1 4. .0030 2.5
J23.

T1 NORTH CAROLINA FLOOD STUDIES.
T2 MILL CREEK, CITY OF JACKSONVILLE.
T3 50-YEAR FLOOD.

J1 5. .0030 2.5
J215.

** BLANK CARD **
** BLANK CARD **
** BLANK CARD **

ER
SUMMARY OF ERRORS

T1 NORTH CAROLINA FLOOD INSURANCE STUDY TC 3380-12 G. BORBOA
T2 MILL CREEK, CITY OF JACKSONVILLE
T3 10 YEAR FLOOD

- 2.100 - NOTE - X1 CARD - XLOBL = -0. REACH LENGTH OMITTED
- 2.100 - NOTE - X1 CARD - XLOBR = -0. REACH LENGTH OMITTED
- 2.100 - LRFOR - X1 CARD - XLCH = -0. CHANNEL REACH LENGTH OMITTED
- 2.200 - NOTE - X1 CARD - XLOBL = -0. REACH LENGTH OMITTED
- 2.200 - NOTE - X1 CARD - XLOBR = -0. REACH LENGTH OMITTED

THIS RUN EXECUTED 23 MAR 82 13.57.56

*1.) SUBMIT Mill Creek
using same elevations
on section 9*

HEC2 RELEASE DATED NOV 76 UPDATED MARG 1982
ERROR CORR - 01,02,03,04,05
MODIFICATION - 50,51,52,53,54,55

T1 MILL CREEK
T2 OLSLOW COUNTY
T3 10 YEAR FLOOD

J1	ICHECK	ING	WINV	IDIR	STRT	METRIC	HVINS	0	WSEL	FG
	-0.	2.	-0.	-0.	502000	-0.	-0.	-0.	2.500	-0.
J2	NPROF	IPLGT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	-0.	-1.000	-0.	-0.	-0.	-1.000	-0.	-0.	-0.
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	150.000	201.000	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.
J6	INLEQ	ICOPY								
	1.000	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.
NC	.120	.120	.150	.150	.300	-0.	-0.	-0.	-0.	-0.
DT	5.100	562.000	1118.000	1451.000	2515.000	1451.000	-0.	-0.	-0.	-0.
X1	1.000	23.000	365.000	620.000	-0.	-0.	-0.	-0.	-0.	-0.
GR	17.500	-0.	20.000	250.000	19.300	245.000	13.500	300.000	2.400	365.000
GR	1.500	486.000	1.300	500.000	2.800	535.000	-0.500	536.000	-4.500	565.000
GR	-3.700	580.000	0.	596.000	1.300	600.000	2.500	620.000	14.500	663.000
GR	16.500	700.000	8.200	778.000	8.200	788.000	9.500	800.000	12.200	855.000
GR	11.200	900.000	10.500	1000.000	15.000	1100.000	-0.	-0.	-0.	-0.
X1	2.100	17.000	4.000	442.000	1500.000	1600.000	1700.000	-0.	-0.	-0.
GR	17.200	-0.	17.300	225.000	1.800	400.000	.500	402.000	-0.500	403.000
GR	-2.400	420.000	-1.200	434.000	.400	439.000	3.800	442.000	5.700	455.000
GR	5.700	555.000	8.000	560.000	8.400	600.000	7.800	700.000	8.700	800.000
GR	10.300	910.000	15.000	1000.000	-0.	-0.	-0.	-0.	-0.	-0.
NC	-0.	-0.	.050	.300	.500	-0.	-0.	-0.	-0.	-0.
X1	17.200	17.000	208.000	417.000	100.000	100.000	100.000	-0.	-0.	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	10.800	10.800	-0.
GR	14.400	-0.	11.700	228.000	8.200	228.000	8.200	294.000	3.300	298.000
GR	2.300	318.000	2.100	323.000	-1.200	327.000	-1.200	360.000	1.800	368.000
GR	3.400	372.000	3.300	382.000	3.800	394.000	8.200	400.000	8.200	407.000
GR	11.800	500.000	14.400	800.000	-0.	-0.	-0.	-0.	-0.	-0.

SB	1.000	1.600	2.900	-0.	40.000	1.000	824.000	3.270	-1.200	-1.200
X1	2.300	0.	0.	-0.	75.500	75.500	75.500	-0.	-0.	-0.
X2	-0.	-0.	1.000	9.900	11.700	-0.	-0.	-0.	-0.	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	11.700	11.700	-0.
BT	5.000	0.	13.000	-0.	144.000	11.700	0.	400.000	11.700	0.
BT	500.000	11.900	-7.	830.000	14.500	-0.	-0.	-0.	-0.	-0.
UC	-0.	-0.	.050	.100	.300	-0.	-0.	-0.	-0.	-0.
X1	2.400	0.	0.	0.	100.000	100.000	100.000	-0.	-0.	-0.
ET	-0.	-0.	-0.	-0.	-0.	1.400	-0.	-0.	-0.	-0.
QT	5.000	550.000	1096.000	1424.000	2470.000	1424.000	-0.	-0.	-0.	-0.
X1	3.700	17.000	400.000	442.000	510.000	510.000	510.000	-0.	-0.	-0.
GR	17.200	-0.	17.300	225.000	1.800	400.000	.500	402.000	-500	403.000
GR	-2.400	420.000	-1.200	434.000	.400	439.000	3.800	442.000	5.700	455.000
GR	5.700	555.000	8.000	580.000	8.400	600.000	7.800	700.000	8.700	800.000
GR	10.300	900.000	15.000	1000.000	-0.	-0.	-0.	-0.	-0.	-0.
QT	5.000	433.000	969.000	1262.000	2202.000	1262.000	-0.	-0.	-0.	-0.
X1	9.000	18.000	475.000	500.000	2150.000	2280.000	2280.000	-0.	-0.	-0.
GR	24.500	0.	24.500	50.000	21.500	100.000	20.000	200.000	21.500	235.000
GR	5.500	300.000	7.000	400.000	2.000	475.000	1.000	485.000	-1.500	486.000
GR	-1.400	490.000	1.000	495.000	6.800	500.000	8.300	600.000	19.200	640.000
GR	23.000	700.000	24.500	800.000	24.000	900.000	-0.	-0.	-0.	-0.
X1	14.000	17.000	470.000	500.000	1670.000	1670.000	1670.000	-0.	-0.	-0.
GR	21.000	0.	21.000	50.000	19.300	100.000	19.000	200.000	18.900	300.000
GR	20.500	370.000	16.000	400.000	5.000	440.000	6.000	470.000	1.500	475.000
GR	4.000	490.000	7.000	500.000	9.000	535.000	21.000	600.000	22.500	700.000
GR	23.000	800.000	25.000	900.000	-0.	-0.	-0.	-0.	-0.	-0.
X1	15.100	19.000	465.500	512.000	450.000	450.000	450.000	-0.	-0.	-0.
GR	27.500	0.	27.500	50.000	26.700	100.000	23.500	200.000	18.500	300.000
GR	15.000	400.000	14.100	455.500	9.000	465.500	4.100	475.000	4.070	485.500
GR	4.000	492.700	4.290	500.000	9.000	512.000	13.000	515.000	14.100	530.000
GR	15.300	600.000	19.000	700.000	24.000	800.000	28.000	900.000	-0.	-0.
NC	-0.	-0.	.050	.300	.500	-0.	-0.	-0.	-0.	-0.
X1	15.200	19.000	462.500	512.500	300.000	300.000	300.000	-0.	.160	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	11.600	11.600	-0.
GR	27.500	0.	27.500	50.000	26.700	100.000	23.500	200.000	18.500	300.000
GR	15.000	400.000	14.100	455.500	9.000	465.500	4.500	475.000	4.000	482.500
GR	4.000	492.500	4.500	505.000	9.000	512.000	13.000	520.000	14.100	530.000
GR	15.300	600.000	19.000	700.000	24.000	800.000	28.000	900.000	-0.	-0.
SB	1.000	1.600	2.900	-0.	9.000	1.000	55.000	.600	4.000	4.000
X1	15.300	0.	0.	0.	83.000	83.000	83.000	-0.	.130	-0.
X2	-0.	-0.	1.000	9.900	14.100	-0.	-0.	-0.	-0.	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	14.100	14.100	-0.
BT	5.000	0.	13.000	-0.	50.000	27.500	-0.	100.000	26.700	-0.
BT	200.000	23.000	-0.	400.000	15.000	-0.	455.500	14.100	-0.	530.000
BT	14.100	-0.	600.000	15.300	-0.	800.000	24.000	-0.	900.000	28.000
BT	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.

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sect 10

Start

X1	18.400	11.000	390.000	400.000	100.000	100.000	100.000	-0.	.050	-0.
GR	28.000	0.	27.510	25.000	26.200	55.000	25.500	260.000	15.230	390.000
GR	10.230	391.750	10.230	398.250	15.230	400.000	21.900	500.000	23.000	600.000
GR	30.800	1000.000	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.
GT	5.000	170.000	260.000	345.000	645.000	345.000	-0.	-0.	-0.	-0.
NC	-0.	-0.	.050	.100	.300	-0.	-0.	-0.	-0.	-0.
X1	19.000	13.000	490.000	500.000	1750.000	1850.000	1800.000	-0.	-0.	-0.
GR	41.500	0.	40.500	100.000	37.200	200.000	34.000	300.000	21.800	465.000
GR	21.700	490.000	19.000	495.000	21.700	500.000	26.700	600.000	33.600	700.000
GR	35.500	600.000	43.800	830.000	44.500	900.000	-0.	-0.	-0.	-0.
X1	21.100	13.000	345.000	355.000	1390.000	1390.000	1390.000	-0.	-0.	-0.
GR	40.000	-0.	35.000	120.000	31.830	280.000	31.830	320.000	25.830	335.000
GR	24.500	345.000	23.160	350.000	24.500	355.000	25.830	365.000	31.830	380.000
GR	31.830	420.000	35.000	480.000	40.000	1180.000	-0.	-0.	-0.	-0.
NC	-0.	-0.	.050	.300	.500	-0.	-0.	-0.	-0.	-0.
X1	21.200	16.000	448.660	451.330	100.000	100.000	100.000	-0.	-0.	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	28.830	28.830	-0.
GR	40.000	-0.	35.000	200.000	31.830	380.000	31.830	420.000	25.830	435.000
GR	24.500	437.000	24.500	446.660	23.160	448.660	23.160	451.330	24.500	451.330
GR	24.500	463.000	25.000	465.000	31.830	480.000	31.830	520.000	35.000	610.000
GR	40.000	1310.000	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.
SB	1.000	2.660	2.800	-0.	1.500	1.000	5.600	.113	20.670	20.670
X1	21.300	-0.	-0.	-0.	60.000	60.000	60.000	-0.	-0.	-0.
X2	-0.	-0.	1.000	25.830	31.830	-0.	-0.	-0.	-0.	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	31.830	31.830	-0.
BT	6.000	-0.	40.000	-0.	200.000	35.000	-0.	450.000	31.830	-0.
BT	520.000	31.830	-0.	610.000	35.000	-0.	1310.000	40.000	-0.	-0.
X1	21.400	13.000	405.000	415.000	50.000	50.000	50.000	-0.	-0.	-0.
GR	40.000	-0.	35.000	210.000	31.830	340.000	31.830	380.000	25.830	395.000
GR	24.500	405.000	23.160	410.000	24.500	415.000	25.830	425.000	31.830	440.000
GR	31.830	480.000	35.000	730.000	40.000	900.000	-0.	-0.	-0.	-0.
X1	20.100	14.000	398.250	402.250	350.000	350.000	350.000	-0.	-0.	-0.
GR	41.000	0.	35.700	200.000	33.700	300.000	32.130	385.000	26.910	388.000
GR	25.000	392.000	23.160	398.250	23.160	412.250	24.200	406.000	26.910	414.000
GR	32.130	418.000	33.200	500.000	36.800	700.000	39.000	800.000	-0.	-0.
VC	-0.	-0.	.050	.300	.500	-0.	-0.	-0.	-0.	-0.
X1	20.200	0.	0.	0.	50.000	50.000	50.000	-0.	.020	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	29.520	29.520	-0.
SB	1.050	1.600	2.000	-0.	3.500	.250	12.600	0.	23.160	23.080
X1	20.300	0.	0.	0.	70.000	70.000	70.000	-0.	.080	-0.
X2	-0.	-0.	1.000	26.910	32.130	-0.	-0.	-0.	-0.	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	32.130	32.130	-0.
BT	6.000	0.	41.000	-0.	200.000	35.700	-0.	300.000	33.700	-0.
BT	385.000	32.130	-0.	418.000	32.130	-0.	500.000	33.200	-0.	700.000
BT	36.800	-0.	900.000	39.000	-0.	-0.	-0.	-0.	-0.	-0.

THIS RUN EXECUTED 23 MAR 82 13.57.57

 HEC2 RELEASE DATED NOV 76 UPDATED MARC 1982
 ERROR CORR - 01,02,03,04,05
 MODIFICATION - 50,51,52,53,54,55

T1 MILL CREEK
 T2 OLSLOW COUNTY
 T3 50-YEAR FLOOD

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	G	WSEL	FG
	-0.	3.	-0.	-0.	.002000	-0.	-0.	-0.	2.500	-0.
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	-0.	-1.000	-0.	-0.	-0.	-1.000	-0.	-0.	-0.

THIS RUN EXECUTED 23 MAR 82 13.57.57

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HEC2 RELEASE DATED NOV 76 UPDATED MARC 1982
ERROR CORR - 01,02,03,04,05
MODIFICATION - 50,51,52,53,54,55
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T1 MILL CREEK
T2 OLSLOW COUNTY
T3 100 YEAR FLOOD

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J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	0	WSEL	FO
	-0.	4.	-0.	-0.	.002000	-0.	-0.	-0.	2.500	-0.
J2	APROF	IFLOT	PRFVS	XSECV	XSECH	FN	ALLOC	IBW	CHNIM	ITRACE
	3.000	-0.	-1.000	-0.	-0.	-0.	-1.000	-0.	-0.	-0.

THIS RUN EXECUTED 23 MAR 82 13.57.58

 HEC2 RELEASE DATED NOV 76 UPDATED MARCH 1982
 ERROR CORR - 01,02,03,04,05
 MODIFICATION - 50,51,52,53,54,55

T1 MILL CREEK
 T2 GLSLOW COUNTY
 T3 50-YEAR FLOOD

J1	ICHECK	ICG	NINV	IOIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-0.	5.	-1.	-0.	.002000	-0.	-0.	-0.	2.500	-0.
J2	NPROF	IFLOT	PRFVS	XSECV	XSECH	FI	ALLDC	IBW	CHNIM	ITRACE
	15.000	-0.	-1.000	-0.	-0.	-0.	-1.000	-0.	-0.	-0.



THIS RUN EXECUTED 23 MAR 82 13.57.58

 HEC2 RELEASE DATED NOV 76 UPDATED MARC 1982
 ERROR CORR - 01,02,03,04,05
 MODIFICATION - 50,51,52,53,54,55

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

AK FLOOD

SUMMARY PRINTOUT TABLE 151

SECD	YLCM	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K*S	VCH	AREA	.01K
1.000	0.	0.	0.	-4.50	562.00	.57	-1.65	.69	20.01	2.83	198.29	125.65
1.000	0.	0.	0.	-4.50	1118.00	2.80	-.57	2.87	20.00	2.13	524.66	250.02
1.000	0.	0.	0.	-4.50	1451.00	3.15	-.13	3.24	19.99	2.37	615.06	324.52
1.000	0.	0.	0.	-4.50	2515.00	4.08	2.03	4.22	20.07	2.95	863.00	561.44
2.100	1700.00	0.	0.	-2.40	562.00	3.42	.53	3.56	14.58	2.97	202.13	147.16
2.100	1700.00	0.	0.	-2.40	1118.00	5.56	1.67	5.77	14.54	3.82	366.89	293.18
2.100	1700.00	0.	0.	-2.40	1451.00	6.16	2.24	6.44	17.30	4.41	474.23	348.84
2.100	1700.00	0.	0.	-2.40	2515.00	7.53	3.85	7.96	23.40	5.77	782.60	519.90
2.200	100.00	0.	0.	-1.20	562.00	3.66	.79	3.75	19.89	2.41	233.17	126.03
2.200	100.00	0.	0.	-1.20	1118.00	5.83	1.87	5.93	10.24	2.50	446.97	349.43
2.200	100.00	0.	0.	-1.20	1451.00	6.49	2.58	6.62	11.06	2.82	514.46	436.24
2.200	100.00	0.	0.	-1.20	2515.00	7.98	3.97	8.20	14.59	3.76	669.40	658.38
2.300	75.50	11.7	9.90	-1.20	562.00	3.66	0.	3.75	19.85	2.41	233.35	126.14
2.300	75.50	11.7	9.90	-1.20	1118.00	5.83	0.	5.93	10.23	2.50	447.13	349.63
2.300	75.50	11.70	9.90	-1.20	1451.00	6.50	0.	6.62	11.05	2.82	514.66	436.51
2.300	75.50	11.70	9.90	-1.20	2515.00	7.99	0.	8.21	14.57	3.75	669.78	658.95
2.400	100.00	0.	0.	-1.20	562.00	3.85	.79	3.93	16.12	2.23	252.25	139.96
2.400	100.00	0.	0.	-1.20	1118.00	5.93	1.87	6.03	9.51	2.44	457.46	362.49
2.400	100.00	0.	0.	-1.20	1451.00	6.61	2.58	6.73	10.32	2.76	525.98	451.70
2.400	100.00	0.	0.	-1.20	2515.00	8.14	3.99	8.35	13.57	3.67	685.19	682.64
3.000	510.00	0.	0.	-2.40	550.00	4.36	.50	4.44	7.32	2.37	263.97	203.31
3.000	510.00	0.	0.	-2.40	1096.00	6.36	1.63	6.51	8.73	3.20	517.72	370.87
3.000	510.00	0.	0.	-2.40	1424.00	7.08	2.19	7.25	9.68	3.58	676.86	457.77
3.000	510.00	0.	0.	-2.40	2470.00	8.76	3.80	8.99	11.43	4.41	1220.01	730.57
9.000	2280.00	0.	0.	-1.50	483.00	5.44	3.06	6.53	11.61	2.77	311.40	141.76
9.000	2280.00	0.	0.	-1.50	969.00	8.40	4.47	8.48	8.75	2.93	793.22	327.58
9.000	2280.00	0.	0.	-1.50	1262.00	9.17	5.22	9.25	8.15	3.03	1035.91	442.16
9.000	2280.00	0.	0.	-1.50	2202.00	11.00	7.06	11.08	7.78	3.39	1627.63	789.65

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CVSEL	CRWS	EG	10K*S	VCH	AREA	01K
14.000	1670.00	0.	0.	1.50	483.00	8.45	5.68	8.54	12.49	2.77	267.16	136.69
14.000	1670.00	0.	0.	1.50	969.00	10.22	6.91	10.36	13.56	3.58	463.63	263.12
14.000	1670.00	0.	0.	1.50	1262.00	10.99	7.41	11.16	14.40	3.98	559.11	332.59
14.000	1670.00	0.	0.	1.50	2202.00	12.90	8.74	13.16	16.51	4.99	820.23	541.88
15.100	450.00	0.	0.	4.03	483.00	9.06	6.23	9.17	15.13	2.73	176.70	124.19
15.100	450.00	0.	0.	4.03	969.00	10.85	7.36	11.06	16.71	3.72	264.76	237.08
15.100	450.00	0.	0.	4.03	1262.00	11.65	7.92	11.92	18.11	4.23	306.61	296.55
15.100	450.00	0.	0.	4.03	2202.00	13.61	9.35	14.10	22.17	5.60	419.95	467.69
15.200	300.00	0.	0.	4.16	483.00	9.53	6.78	9.85	24.32	4.50	107.44	97.94
15.200	300.00	0.	0.	4.16	969.00	11.35	8.32	12.06	37.02	6.74	143.82	159.25
15.200	300.00	0.	0.	4.16	1262.00	12.20	9.12	12.59	22.92	5.71	346.69	263.58
15.200	300.00	0.	0.	4.16	2202.00	14.30	11.84	14.95	29.59	7.57	482.97	404.79
15.300	83.00	14.1	9.00	4.29	483.00	11.26	0.	11.45	10.20	3.46	139.44	151.24
15.300	83.00	14.1	9.00	4.29	969.00	14.98	0.	15.08	4.66	3.11	544.30	448.84
15.300	83.00	14.1	9.00	4.29	1262.00	15.38	0.	15.54	6.75	3.84	613.11	485.83
15.300	83.00	14.1	9.00	4.29	2202.00	16.16	0.	16.53	14.83	5.96	783.25	571.77
15.400	100.00	0.	0.	4.37	483.00	11.49	6.57	11.54	3.47	1.76	280.54	259.13
15.400	100.00	0.	0.	4.37	969.00	15.06	7.70	15.13	2.77	2.15	523.56	582.32
15.400	100.00	0.	0.	4.37	1262.00	15.51	8.26	15.61	3.93	2.64	601.43	636.24
15.400	100.00	0.	0.	4.37	2202.00	16.44	9.69	16.67	8.14	4.04	813.21	771.72
16.100	980.00	0.	0.	8.30	400.00	13.34	11.96	14.21	175.47	7.50	53.36	30.20
16.100	980.00	0.	0.	8.30	812.00	16.24	15.41	16.71	77.60	6.50	270.59	92.18
16.100	980.00	0.	0.	8.30	1061.00	16.72	16.05	17.21	83.61	7.03	354.85	116.04
16.100	980.00	0.	0.	8.30	1867.00	18.82	17.07	19.01	37.33	5.49	940.85	305.59
16.200	100.00	0.	0.	8.30	400.00	14.89	11.97	15.38	75.29	5.62	71.20	46.10
16.200	100.00	0.	0.	8.30	812.00	16.87	14.06	16.03	123.20	8.64	93.94	73.16
16.200	100.00	0.	0.	8.30	1061.00	17.60	17.15	17.80	36.93	5.01	546.26	174.60
16.200	100.00	0.	0.	8.30	1867.00	19.21	17.15	19.34	26.59	4.75	1111.81	362.08
16.300	100.00	16.5	14.5	8.30	400.00	15.19	0.	15.63	64.43	5.36	74.61	49.83
16.300	100.00	16.5	14.5	8.30	812.00	18.68	0.	18.75	12.90	3.20	657.85	226.16
16.300	100.00	16.5	14.5	8.30	1061.00	19.06	0.	19.15	15.52	3.59	793.15	269.33
16.300	100.00	16.5	14.5	8.30	1867.00	19.79	0.	19.86	16.00	3.82	1407.81	466.78
16.400	100.00	0.	0.	8.30	400.00	15.93	11.96	16.09	25.55	3.63	222.48	79.14
16.400	100.00	0.	0.	8.30	812.00	18.82	15.41	18.86	7.12	2.40	936.65	304.21
16.400	100.00	0.	0.	8.30	1061.00	19.23	16.00	19.27	8.41	2.68	1122.70	365.76
16.400	100.00	0.	0.	8.30	1867.00	19.95	17.18	20.01	13.95	3.60	1494.85	499.89
18.100	470.00	0.	0.	10.23	240.00	17.09	13.50	17.25	25.10	3.43	118.00	47.90
18.100	470.00	0.	0.	10.23	500.00	19.28	15.51	19.38	15.55	3.43	355.16	122.91
18.100	470.00	0.	0.	10.23	660.00	19.76	17.05	19.89	19.60	3.88	430.03	149.09
18.100	470.00	0.	0.	10.23	1185.00	20.77	18.48	20.96	29.97	5.16	610.42	216.48

SECMO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRWS	EG	10K+S	VCH	AREA	.01K
18.200	50.00	0.	0.	10.23	240.00	17.19	13.51	17.44	32.33	3.94	60.89	42.21
18.200	50.00	0.	0.	10.23	500.00	19.37	15.36	19.47	15.31	3.32	369.34	127.78
18.200	50.00	0.	0.	10.23	660.00	19.87	16.21	19.99	17.97	3.75	448.38	155.68
18.200	50.00	0.	0.	10.23	1185.00	20.94	19.05	21.11	26.62	4.92	644.17	229.70
18.300	77.50	21.90	15.23	10.23	240.00	17.93	0.	18.12	22.12	3.52	68.24	51.03
18.300	77.50	21.90	15.23	10.23	500.00	22.37	0.	22.40	3.88	2.06	583.62	253.68
18.300	77.50	21.90	15.23	10.23	660.00	22.74	0.	22.76	2.49	1.69	1091.59	417.84
18.300	77.50	21.90	15.23	10.23	1185.00	23.37	0.	23.40	5.43	2.58	1309.91	508.31
18.400	100.00	0.	0.	10.28	240.00	18.23	13.55	18.29	9.57	2.37	216.59	77.59
18.400	100.00	0.	0.	10.28	500.00	22.42	15.65	22.43	1.84	1.42	974.44	368.97
18.400	100.00	0.	0.	10.28	660.00	22.77	17.10	22.79	2.55	1.70	1080.85	413.43
18.400	100.00	0.	0.	10.28	1185.00	23.42	18.47	23.45	5.42	2.57	1311.60	509.02
19.000	180.00	0.	0.	19.00	170.00	23.20	22.51	23.34	46.42	3.74	100.41	24.95
19.000	180.00	0.	0.	19.00	260.00	24.32	22.85	24.39	19.82	3.05	215.38	58.41
19.000	180.00	0.	0.	19.00	345.00	24.76	23.19	24.84	20.16	3.30	272.69	76.84
19.000	180.00	0.	0.	19.00	645.00	25.86	23.91	25.96	22.26	4.02	442.82	136.71
21.100	1390.00	0.	0.	23.16	170.00	27.47	25.90	27.59	22.79	3.28	89.22	35.61
21.100	1390.00	0.	0.	23.16	260.00	27.92	26.37	28.12	33.35	4.29	106.89	45.02
21.100	1390.00	0.	0.	23.16	345.00	28.48	26.74	28.73	35.03	4.79	130.40	58.29
21.100	1390.00	0.	0.	23.16	645.00	29.91	27.79	30.29	41.90	6.26	197.22	99.64
21.200	100.00	0.	0.	23.16	170.00	28.17	28.17	30.68	538.97	12.71	13.38	7.32
21.200	100.00	0.	0.	23.16	260.00	28.83	28.83	28.89	27.49	3.12	153.46	49.59
21.200	100.00	0.	0.	23.16	345.00	29.06	28.85	29.15	40.38	3.88	163.77	54.29
21.200	100.00	0.	0.	23.16	645.00	30.67	28.87	30.81	46.75	4.90	244.61	94.33
21.300	60.00	31.83	25.83	23.16	170.00	32.41	0.	32.41	1.17	.89	406.48	157.41
21.300	60.00	31.83	25.83	23.16	260.00	32.64	0.	32.64	2.32	1.28	452.80	170.81
21.300	60.00	31.83	25.83	23.16	345.00	32.80	0.	32.81	3.62	1.61	488.28	181.23
21.300	60.00	31.83	25.83	23.16	645.00	33.25	0.	33.27	9.16	2.64	594.37	213.14
21.400	50.00	0.	0.	23.16	170.00	32.41	25.91	32.42	.68	1.01	404.44	205.88
21.400	50.00	0.	0.	23.16	260.00	32.64	26.37	32.66	1.37	1.45	455.93	221.98
21.400	50.00	0.	0.	23.16	345.00	32.81	26.74	32.83	2.16	1.84	497.34	234.86
21.400	50.00	0.	0.	23.16	645.00	33.26	27.79	33.33	5.50	3.04	625.85	274.91
20.100	350.00	0.	0.	23.16	170.00	32.44	25.87	32.46	1.72	1.72	230.06	129.53
20.100	350.00	0.	0.	23.16	260.00	32.70	26.49	32.75	3.56	2.52	253.95	137.60
20.100	350.00	0.	0.	23.16	345.00	32.91	27.04	32.98	5.65	3.23	278.75	145.08
20.100	350.00	0.	0.	23.16	645.00	33.52	28.32	33.68	13.85	5.26	383.71	173.30
20.200	50.00	0.	0.	23.18	170.00	32.45	26.99	32.47	1.73	1.73	229.02	129.11
20.200	50.00	0.	0.	23.18	260.00	32.72	28.24	32.76	3.57	2.53	253.15	137.55
20.200	50.00	0.	0.	23.18	345.00	32.94	29.58	33.00	5.65	3.23	278.82	145.10
20.200	50.00	0.	0.	23.18	645.00	33.59	29.53	33.75	13.33	5.18	396.17	176.66

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
20.300	70.00	32.13	26.91	23.26	170.00	32.87	0.	32.89	1.46	1.63	262.96	140.54
20.300	70.00	32.13	26.91	23.26	260.00	33.11	0.	33.15	3.05	2.38	292.97	148.99
20.300	70.00	32.13	26.91	23.26	345.00	33.27	0.	33.33	4.91	3.06	318.49	155.74
20.300	70.00	32.13	26.91	23.26	645.00	33.71	0.	33.86	13.01	5.12	404.23	178.84
20.400	100.00	0.	0.	23.26	170.00	32.89	25.96	32.91	1.46	1.62	263.82	140.79
20.400	100.00	0.	0.	23.26	260.00	33.14	26.59	33.18	2.99	2.37	297.94	150.32
20.400	100.00	0.	0.	23.26	345.00	33.32	27.14	33.38	4.76	3.02	327.60	158.15
20.400	100.00	0.	0.	23.26	645.00	33.86	28.37	33.99	11.85	4.93	435.20	187.39

AR FLOOD

SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
1.000	562.00	.57	0.	0.	-1.93	62.17	0.
1.000	1118.00	2.80	2.24	0.	.30	258.46	0.
1.000	1451.00	3.15	.35	0.	.65	261.74	0.
1.000	2515.00	4.38	.93	0.	1.58	270.53	0.
2.100	562.00	3.42	0.	2.86	0.	60.03	1700.00
2.100	1118.00	5.56	2.13	2.75	0.	96.44	1700.00
2.100	1451.00	6.18	.60	3.01	0.	209.17	1700.00
2.100	2515.00	7.53	1.37	3.45	0.	239.62	1700.00
2.200	562.00	3.66	0.	.23	0.	92.83	100.00
2.200	1118.00	5.83	2.17	.27	0.	100.83	100.00
2.200	1451.00	6.49	.66	.34	0.	102.28	100.00
2.200	2515.00	7.98	1.49	.45	0.	105.53	100.00
2.300	562.00	3.66	0.	.00	0.	92.88	75.50
2.300	1118.00	5.93	2.17	.00	0.	100.84	75.50
2.300	1451.00	6.50	.66	.00	0.	102.29	75.50
2.300	2515.00	7.99	1.49	.50	0.	105.54	75.50
2.400	562.00	3.85	0.	.19	0.	96.53	100.00
2.400	1118.00	5.93	2.08	.11	0.	101.06	100.00
2.400	1451.00	6.61	.67	.11	0.	102.53	100.00
2.400	2515.00	8.14	1.53	.15	0.	105.86	100.00
3.000	350.00	4.36	0.	.51	0.	74.62	510.00
3.000	1096.00	6.36	2.01	.43	0.	213.73	510.00
3.000	1424.00	7.08	.72	.47	0.	229.64	510.00
3.000	2470.00	8.76	1.68	.82	0.	482.51	510.00
9.000	483.00	6.44	0.	2.08	0.	157.06	2280.00
9.000	969.00	8.4	1.96	2.04	0.	312.17	2280.00
9.000	1262.00	9.17	.77	2.09	0.	318.13	2280.00
9.000	2202.00	11.0	1.82	2.24	0.	332.20	2280.00
14.000	483.00	8.45	0.	2.01	0.	97.95	1670.00
14.000	969.00	10.22	1.77	1.82	0.	120.53	1670.00
14.000	1262.00	10.95	.77	1.81	0.	127.50	1670.00
14.000	2202.00	12.9	1.92	1.91	0.	144.86	1670.00
15.100	483.00	9.36	0.	.61	0.	46.65	450.00
15.100	969.00	10.85	1.79	.63	0.	51.51	450.00
15.100	1262.00	11.65	.81	.66	0.	53.67	450.00
15.100	2202.00	13.61	1.97	.71	0.	66.92	450.00

SECNO	G	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
15.200	483.00	9.53	0.	.48	0.	20.00	300.00
15.200	969.00	11.35	1.82	.50	0.	20.00	300.00
15.200	1262.00	12.27	.85	.56	0.	58.76	300.00
15.200	2202.00	14.30	2.10	.68	0.	79.17	300.00
15.300	483.00	11.26	0.	1.73	0.	20.00	83.00
15.300	969.00	14.98	3.71	3.63	0.	144.87	83.00
15.300	1262.00	15.38	.41	3.18	0.	190.64	83.00
15.300	2202.00	16.16	.78	1.86	0.	240.50	83.00
15.400	483.00	11.49	0.	.23	0.	52.34	100.00
15.400	969.00	15.06	3.57	.08	0.	148.90	100.00
15.400	1262.00	15.51	.45	.12	0.	196.91	100.00
15.400	2202.00	16.44	.93	.78	0.	253.04	100.00
16.100	400.00	13.34	0.	1.84	0.	11.34	980.00
16.100	812.00	16.24	2.90	1.18	0.	162.67	980.00
16.100	1061.00	16.72	.42	1.21	0.	190.97	980.00
16.100	1867.00	18.82	2.10	2.38	0.	424.78	980.00
16.200	400.00	14.89	0.	1.55	0.	11.50	100.00
16.200	812.00	16.87	1.98	.63	0.	11.53	100.00
16.200	1061.00	17.60	.73	.88	0.	243.31	100.00
16.200	1867.00	19.21	1.61	.38	0.	482.66	100.00
16.300	400.00	15.19	0.	.30	0.	11.50	104.00
16.300	812.00	18.68	3.49	1.80	0.	325.10	104.00
16.300	1061.00	19.06	.38	1.46	0.	379.94	104.00
16.300	1867.00	19.79	.73	.58	0.	535.32	104.00
16.400	400.00	15.93	0.	.74	0.	144.04	100.00
16.400	812.00	18.82	2.89	.15	0.	423.25	100.00
16.400	1061.00	19.23	.41	.17	0.	484.96	100.00
16.400	1867.00	19.95	.72	.16	0.	540.00	100.00
18.100	240.00	17.09	0.	1.16	0.	72.40	470.00
18.100	500.00	19.28	2.18	.40	0.	145.35	470.00
18.100	660.00	19.76	.49	.53	0.	161.69	470.00
18.100	1185.00	20.77	1.21	.82	0.	195.52	470.00
18.200	240.00	17.19	0.	.10	0.	10.00	50.00
18.200	500.00	19.37	2.17	.09	0.	148.58	50.00
18.200	660.00	19.87	.58	.11	0.	165.44	50.00
18.200	1185.00	20.94	1.07	.17	0.	201.21	50.00
18.300	240.00	17.93	0.	.73	0.	10.00	77.50
18.300	500.00	22.37	4.44	3.00	0.	142.02	77.50
18.300	660.00	22.74	.38	2.87	0.	326.63	77.50
18.300	1185.00	23.37	.62	2.83	0.	379.26	77.50

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
18.400	240.00	18.23	0.	.30	0.	108.84	100.00
18.400	500.00	22.42	4.19	.05	0.	284.69	100.00
18.400	660.00	22.77	.35	.03	0.	323.01	100.00
18.400	1135.00	23.42	.65	.05	0.	379.57	100.00
19.000	170.00	23.20	0.	4.97	0.	83.90	1800.00
19.000	250.00	24.32	1.12	1.90	0.	121.44	1800.00
19.000	345.00	24.76	.44	1.99	0.	136.34	1800.00
19.000	645.00	25.86	1.10	2.44	0.	173.20	1800.00
21.100	170.00	27.47	0.	4.27	0.	38.20	1390.00
21.100	260.00	27.92	.45	3.61	0.	40.45	1390.00
21.100	345.00	28.48	.56	3.72	0.	43.26	1390.00
21.100	645.00	29.91	1.42	4.05	0.	50.39	1350.00
21.200	170.00	28.17	0.	.70	0.	2.67	100.00
21.200	260.00	28.83	.66	.91	0.	45.92	100.00
21.200	345.00	29.06	.23	.58	0.	46.15	100.00
21.200	645.00	30.67	1.61	.77	0.	54.20	100.00
21.300	170.00	32.41	0.	4.24	0.	189.46	60.00
21.300	260.00	32.64	.23	3.80	0.	249.25	60.00
21.300	345.00	32.8	.17	3.74	0.	223.22	60.00
21.300	645.00	33.25	.44	2.57	0.	260.58	60.00
21.400	170.00	32.41	0.	.00	0.	209.40	50.00
21.400	260.00	32.64	.23	.00	0.	237.05	50.00
21.400	345.00	32.81	.17	.01	0.	257.14	50.00
21.400	645.00	33.26	.45	.01	0.	311.34	50.00
21.100	170.00	32.44	0.	.03	0.	73.71	350.00
21.100	260.00	32.7	.26	.06	0.	108.09	350.00
21.100	345.00	32.91	.20	.10	0.	134.79	350.00
21.100	645.00	33.52	.61	.26	0.	207.58	350.00
20.200	170.00	32.45	0.	.61	0.	71.84	50.00
20.200	260.00	32.72	.27	.02	0.	167.11	50.00
20.200	345.00	32.94	.22	.03	0.	134.85	50.00
20.200	645.00	33.59	.66	.08	0.	214.06	50.00
21.300	170.00	32.87	0.	.43	0.	118.49	70.00
21.300	260.00	33.11	.23	.39	0.	147.95	70.00
21.300	345.00	33.27	.16	.33	0.	169.00	70.00
21.300	645.00	33.71	.44	.12	0.	218.15	70.00
21.400	170.00	32.89	0.	.01	0.	119.43	100.00
21.400	260.00	33.14	.25	.03	0.	152.28	100.00
21.400	345.00	33.32	.14	.05	0.	175.43	100.00
21.400	645.00	33.86	.53	.14	0.	233.00	100.00

THIS RUN EXECUTED 24 MAR 82 11.01.25

 HEC2 RELEASE DATED NOV 76 UPDATED MARCH 1982
 ERROR CORR - 01,02,03,04,05
 MODIFICATION - 50,51,52,53,54,55

T1 MILL CREEK
 T2 DLSLOW COUNTY
 T3 BASE FLOOD

J1	ICHECK	ING	NINW	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-0.	4.	-0.	-0.	-0.	-0.	-0.	-0.	3.150	-0.
J2	NPROF	IPLOT	PPFVS	YSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	-0.	-1.000	-0.	-0.	-0.	-1.000	-0.	-0.	-0.
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	200.000	110.400	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.
J5	LPRNT	MINSEC	*****REQUESTED SECTION NUMBERS*****							
	-10.000	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.
J6	INLEQ	ICOPY								
	1.000	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.
NC	.120	.120	.050	.100	.300	-0.	-0.	-0.	-0.	-0.
QT	54.000	562.000	1118.000	1451.000	2515.000	1451.000	-0.	-0.	-0.	-0.
ET	-0.	-0.	-0.	-0.	-0.	10.400	-0.	-0.	-0.	-0.
X1	10.000	23.000	365.000	620.000	-0.	-0.	-0.	-0.	-0.	-0.
GR	17.500	-0.	20.000	200.000	19.300	245.000	13.500	300.000	2.400	365.000
GR	1.500	486.000	1.300	500.000	2.000	535.000	-0.500	536.000	-4.500	565.000
GR	-3.700	580.000	0.	596.000	1.300	600.000	2.500	620.000	14.500	663.000
GR	16.500	700.000	8.200	778.000	8.200	788.000	9.500	800.000	12.200	855.000
GR	11.200	900.000	10.500	1000.000	15.000	1100.000	-0.	-0.	-0.	-0.
X1	2.100	17.000	410.000	442.000	1500.000	1600.000	1700.000	-0.	-0.	-0.
GR	17.200	-0.	17.300	225.000	1.000	400.000	.500	402.000	-0.500	403.000
GR	-2.400	420.000	-1.200	434.000	.400	439.000	3.800	442.000	5.700	455.000
GR	5.700	555.000	8.000	580.000	8.400	600.000	7.800	700.000	8.700	800.000
GR	15.300	900.000	15.000	1000.000	-0.	-0.	-0.	-0.	-0.	-0.
NC	-1.	-0.	.050	.300	.500	-0.	-0.	-0.	-0.	-0.
X1	2.200	17.000	288.000	407.000	100.000	100.000	100.000	-0.	-0.	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	10.800	10.800	-0.
GR	14.400	-0.	11.700	288.000	8.200	288.000	8.200	294.000	3.300	298.000
GR	2.300	318.000	2.100	323.000	-1.200	327.000	-1.200	360.000	1.800	368.000
GR	3.400	372.000	3.300	382.000	3.800	394.000	8.200	400.000	8.200	407.000

GR	11.870	500.000	14.400	800.000	-0.	-0.	-0.	-0.	-0.	-0.
SB	1.340	1.670	2.900	-0.	40.000	1.000	824.000	3.270	-1.200	-1.200
X1	2.370	0.	0.	0.	75.500	75.500	75.500	-0.	-0.	-0.
X2	-0.	-0.	1.000	9.900	11.700	-0.	-0.	-0.	-0.	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	11.700	11.700	-0.
BT	5.000	0.	13.000	-0.	144.000	11.700	0.	400.000	11.700	0.
BT	500.000	11.900	-0.	810.000	14.500	-0.	-0.	-0.	-0.	-0.
NC	-0.	-0.	.050	.100	.300	-0.	-0.	-0.	-0.	-0.
X1	2.400	0.	0.	0.	100.000	100.000	100.000	-0.	-0.	-0.
GT	5.000	550.000	1096.000	1424.000	2470.000	1424.000	-0.	-0.	-0.	-0.
ET	-0.	-0.	-0.	-0.	-0.	1.400	-0.	-0.	-0.	-0.
X1	3.000	17.000	400.000	442.000	510.000	510.000	510.000	-0.	-0.	-0.
GR	17.200	-0.	17.300	225.000	1.800	400.000	.500	402.000	-500	403.000
GR	-2.400	420.000	-1.200	434.000	.400	439.000	3.800	442.000	5.700	455.000
GR	5.700	555.000	8.000	580.000	8.400	600.000	7.800	700.000	8.700	800.000
GR	10.300	000.000	15.000	1000.000	-0.	-0.	-0.	-0.	-0.	-0.
GT	5.000	403.500	969.000	1262.000	2292.000	1262.000	-0.	-0.	-0.	-0.
ET	-0.	-0.	-0.	-0.	-0.	4.400	-0.	-0.	-0.	-0.
X1	9.000	18.000	475.000	500.000	2150.000	2280.000	2280.000	-0.	-0.	-0.
GR	24.500	0.	24.500	50.000	21.500	100.000	20.000	200.000	21.500	235.000
GR	5.500	300.000	7.000	400.000	2.000	475.000	1.000	485.000	-1.500	486.000
GR	-1.400	490.000	1.000	495.000	6.800	500.000	8.300	600.000	19.200	640.000
GR	23.000	700.000	24.500	800.000	24.000	900.000	-0.	-0.	-0.	-0.
X1	14.000	17.000	470.000	500.000	1670.000	1670.000	1670.000	-0.	-0.	-0.
GR	21.000	0.	21.000	50.000	19.300	100.000	19.000	200.000	18.900	300.000
GR	20.500	370.000	16.000	400.000	5.000	440.000	6.000	470.000	1.500	475.000
GR	4.000	490.000	7.000	500.000	9.000	535.000	21.000	600.000	22.500	700.000
GR	23.000	800.000	25.000	900.000	-0.	-0.	-0.	-0.	-0.	-0.
X1	15.000	19.000	465.000	512.000	450.000	450.000	450.000	-0.	-0.	-0.
GR	27.500	0.	27.500	50.000	26.700	100.000	23.500	200.000	18.500	300.000
GR	15.000	400.000	14.000	455.000	9.000	465.000	4.100	475.000	4.070	485.000
GR	4.000	492.000	4.290	500.000	9.000	512.000	13.000	515.000	14.100	530.000
GR	15.000	600.000	19.000	700.000	24.000	800.000	28.000	900.000	-0.	-0.
NC	-0.	-0.	.050	.100	.500	-0.	-0.	-0.	-0.	-0.
X1	15.200	15.000	482.500	502.500	300.000	300.000	300.000	-0.	.160	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	11.600	11.600	-0.
GR	27.500	0.	27.500	50.000	26.700	100.000	23.500	200.000	18.500	300.000
GR	15.000	400.000	14.000	455.000	9.000	465.000	4.500	475.000	4.000	482.500
GR	4.000	492.000	4.290	500.000	9.000	512.000	13.000	520.000	14.100	530.000
GR	15.300	600.000	19.000	700.000	24.000	800.000	28.000	900.000	-0.	-0.
SB	1.000	1.600	2.600	-0.	9.000	1.000	55.000	.600	4.000	4.000
X1	15.300	0.	0.	0.	83.000	83.000	83.000	-0.	.130	-0.
X2	-0.	-0.	1.000	9.000	14.100	-0.	-0.	-0.	-0.	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	14.100	14.100	-0.
BT	10.000	0.	27.500	-0.	50.000	27.500	-0.	100.000	26.700	-0.
BT	200.000	23.500	-0.	400.000	15.000	-0.	455.500	14.100	-0.	530.000

X1	18.410	11.000	390.000	400.000	100.000	100.000	100.000	-0.	.050	-0.
GR	28.000	0.	27.500	25.000	26.200	55.000	25.500	200.000	15.230	390.000
GR	10.230	391.750	10.230	390.250	15.230	400.000	21.900	500.000	23.000	600.000
GR	30.600	1000.000	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.
GT	5.000	170.000	260.000	345.000	645.000	345.000	-0.	-0.	-0.	-0.
NC	-0.	-0.	.050	.100	.300	-0.	-0.	-0.	-0.	-0.
ET	-0.	-0.	-0.	-0.	-0.	7.400	-0.	-0.	-0.	-0.
X1	19.000	13.000	490.000	500.000	1750.000	1850.000	1800.000	-0.	-0.	-0.
GR	41.500	0.	40.500	100.000	37.200	200.000	34.000	300.000	21.800	465.000
GR	21.700	490.000	19.000	495.000	21.700	500.000	26.700	600.000	33.600	700.000
GR	35.500	600.000	43.800	830.000	44.500	900.000	-0.	-0.	-0.	-0.
X1	21.100	13.000	345.000	355.000	1390.000	1390.000	1390.000	-0.	-0.	-0.
GR	40.000	-0.	35.000	120.000	31.830	280.000	31.830	320.000	25.830	335.000
GR	24.500	345.000	23.100	350.000	24.500	355.000	25.830	365.000	31.830	380.000
GR	31.830	420.000	35.000	480.000	40.000	1180.000	-0.	-0.	-0.	-0.
NC	-0.	-0.	.050	.300	.500	-0.	-0.	-0.	-0.	-0.
X1	21.200	16.000	448.660	451.330	100.000	100.000	100.000	-0.	-0.	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	28.830	28.830	-0.
GR	40.000	-0.	35.000	260.000	31.830	380.000	31.830	420.000	25.830	435.000
GR	24.500	437.000	24.500	440.660	23.160	448.660	23.160	451.330	24.500	451.330
GR	24.500	463.000	25.830	465.000	31.830	480.000	31.830	520.000	35.000	610.000
GR	40.000	1310.000	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.
SB	1.000	2.660	2.800	-0.	1.500	1.000	5.600	.113	20.670	20.670
X1	21.300	-0.	-0.	-0.	60.000	60.000	60.000	-0.	-0.	-0.
X2	-0.	-0.	1.000	25.830	31.830	-0.	-0.	-0.	-0.	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	31.830	31.830	-0.
BT	6.000	-0.	40.000	-0.	200.000	35.000	-0.	450.000	31.830	-0.
BT	520.000	31.830	-0.	610.000	35.000	-0.	1310.000	40.000	-0.	-0.
X1	21.400	13.000	405.000	415.000	50.000	50.000	50.000	-0.	-0.	-0.
GR	40.000	-0.	35.000	210.000	31.830	340.000	31.830	380.000	25.830	395.000
GR	24.500	405.000	23.160	410.000	24.500	415.000	25.830	425.000	31.830	440.000
GR	31.830	480.000	35.000	730.000	40.000	900.000	-0.	-0.	-0.	-0.
X1	20.100	14.000	398.250	402.250	350.000	350.000	350.000	-0.	-0.	-0.
GR	41.000	0.	35.700	200.000	33.700	300.000	32.130	385.000	26.910	388.000
GR	25.000	392.000	23.160	398.250	23.160	402.250	24.200	406.000	26.910	414.000
GR	32.130	418.000	33.200	500.000	36.800	700.000	39.000	800.000	-0.	-0.
NC	-0.	-0.	.050	.300	.500	-0.	-0.	-0.	-0.	-0.
X1	20.200	0.	0.	0.	50.000	50.000	50.000	-0.	.020	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	29.520	29.520	-0.
SB	1.000	1.600	2.000	-0.	3.500	.250	12.600	0.	23.160	23.080
X1	20.300	0.	0.	0.	70.000	70.000	70.000	-0.	.080	-0.
X2	-0.	-0.	1.000	26.910	32.130	-0.	-0.	-0.	-0.	-0.
X3	10.000	-0.	-0.	-0.	-0.	-0.	-0.	32.130	32.130	-0.
BT	6.000	0.	41.000	-0.	200.000	35.700	-0.	300.000	33.700	-0.
BT	45.000	32.130	-0.	418.000	32.130	-0.	500.000	33.200	-0.	700.000

THIS RUN EXECUTED 24 MAR 82 11.01.26

 HEC2 RELEASE DATED NOV 76 UPDATED MARC 1982
 ERROR CORR - 01,02,03,04,05
 MODIFICATION - 50,51,52,53,54,55

T1 MILL CREEK
 T2 OLSLOW COUNTY
 T3 FLOODWAY

J1	ICHECK	IMQ	NINV	IDIP	STRT	METRIC	HVINS	G	WSEL	FO
	-0.	6.	-0.	-0.	-0.	-0.	-0.	-0.	4.150	-0.
J2	NPROF	IFLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	-0.	-1.000	-0.	-0.	-0.	-1.000	-0.	-0.	-0.

IHLQ = 1. THEREFORE FRICTION LOSS (HL) IS CALCULATED AS A FUNCTION OF PROFILE TYPE, WHICH CAN VARY FROM REACH TO REACH. SEE DOCUMENTATION FOR DETAILS.

THIS RUN EXECUTED 24 MAR 82 11.01.26

 HEC2 RELEASE DATED NOV 76 UPDATED MARC 1982
 ERROR CORR - 01,02,03,04,05
 MODIFICATION - 50,51,52,53,54,55

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

FLOOD

SUMMARY PRINTOUT TABLE 113

SECCNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
1.000	3.15	0.	3.24	261.72	.47	1450.34	.19	0.	0.	365.00	620.00	0.
1.000	4.15	1.07	4.19	255.00	0.	1451.00	0.	.00	365.00	365.00	620.00	620.00
2.100	6.16	0.	6.44	219.19	92.58	1332.41	26.02	0.	0.	400.00	442.00	0.
2.100	6.09	-.06	6.46	42.00	0.	1451.00	0.	.15	400.00	400.00	442.00	442.00
2.200	6.49	0.	6.62	102.28	0.	1451.00	0.	0.	0.	288.00	407.00	0.
2.200	6.56	.07	6.68	102.43	0.	1451.00	0.	0.	288.00	288.00	407.00	407.00
2.300	6.55	0.	6.62	102.20	0.	1451.00	0.	0.	0.	288.00	407.00	0.
2.300	7.50	1.07	7.56	104.47	0.	1451.00	0.	0.	0.	288.00	407.00	0.
2.400	6.61	0.	6.73	102.53	0.	1451.00	0.	0.	0.	288.00	407.00	0.
2.400	7.56	.95	7.64	104.60	0.	1451.00	0.	0.	288.00	288.00	407.00	407.00
3.000	7.48	0.	7.25	229.65	115.58	1218.92	89.50	0.	0.	400.00	442.00	0.
3.000	7.85	.77	7.99	158.41	106.55	1199.78	117.67	.03	374.86	400.00	442.00	533.28
9.000	9.17	0.	9.25	318.13	571.30	611.15	79.54	0.	0.	475.00	500.00	0.
9.000	9.59	.42	9.68	189.56	582.22	662.47	17.31	.13	321.24	475.00	500.00	510.80
14.000	10.99	0.	11.16	127.51	362.22	853.31	106.47	0.	0.	470.00	500.00	0.
14.000	11.37	.33	11.57	77.04	280.47	925.26	56.27	.11	437.07	470.00	500.00	514.11
15.100	11.65	0.	11.92	53.67	4.03	1256.78	1.19	0.	0.	465.50	512.00	0.
15.100	12.05	.41	12.30	46.50	0.	1262.00	0.	.01	465.50	465.50	512.00	512.00
15.200	12.20	0.	12.59	58.76	231.91	919.05	111.04	0.	0.	482.50	502.50	0.
15.200	12.56	.35	13.00	38.49	200.56	996.62	64.81	.09	468.98	482.50	502.50	507.47
* 15.300	15.38	0.	15.54	190.64	261.43	852.78	148.49	0.	0.	482.50	502.50	0.
* 15.300	15.74	.35	15.91	49.12	250.06	894.10	117.84	.08	463.07	482.50	502.50	512.09

SECNO	CWSEL	DIFKWS	EG	TOPWID	GLOB	GCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
15.400	15.51	0.	15.61	196.91	25.47	1217.35	19.19	0.	0.	465.50	512.00	0.
15.401	15.88	.38	15.99	46.58	0.	1262.00	0.	.05	465.50	465.50	512.00	512.00
16.100	16.72	0.	17.21	190.97	241.61	648.53	170.86	0.	0.	638.50	650.00	0.
16.101	17.74	1.02	17.92	251.68	359.11	494.56	206.63	0.	0.	638.50	650.00	0.
16.200	17.68	0.	17.88	243.31	345.30	512.83	202.87	0.	0.	638.50	650.00	0.
16.201	18.45	.45	18.39	79.85	368.99	634.22	57.79	.33	578.64	638.50	650.00	658.49
16.300	19.86	0.	19.15	379.94	632.92	428.08	0.	0.	0.	638.50	650.00	0.
16.301	19.51	.45	19.63	92.70	584.70	476.38	0.	.46	557.30	638.50	650.00	650.00
16.400	19.23	0.	19.27	484.96	520.96	324.04	216.00	0.	0.	638.50	650.00	0.
16.401	19.73	.57	19.79	161.19	611.52	392.18	57.30	.32	499.20	638.50	650.00	660.40
18.100	19.76	0.	19.89	161.60	179.18	335.69	145.13	0.	0.	390.00	400.00	0.
18.101	20.33	.57	21.54	47.83	152.91	411.04	96.05	.29	366.88	390.00	400.00	414.71
18.200	19.87	0.	19.99	165.44	183.17	328.46	148.37	0.	0.	390.00	400.00	0.
18.201	20.47	.46	20.66	49.82	158.75	400.12	101.14	.28	365.78	390.00	400.00	415.60
18.300	22.74	0.	22.75	326.63	247.37	196.52	216.12	0.	0.	390.00	400.00	0.
18.301	23.34	.68	23.37	183.82	222.45	227.33	210.22	.25	343.41	390.00	400.00	447.23
18.400	22.77	0.	22.75	323.01	247.09	197.68	215.23	0.	0.	390.00	400.00	0.
18.401	23.37	.68	23.40	182.60	222.05	229.16	208.85	.25	343.80	390.00	400.00	446.49
19.100	24.75	0.	24.84	136.34	130.22	145.51	69.27	0.	0.	490.00	500.00	0.
19.101	25.41	.65	25.53	45.93	124.39	184.71	35.89	.32	463.81	490.00	500.00	509.74
21.100	28.48	0.	28.73	43.26	61.12	222.75	61.12	0.	0.	345.00	355.00	0.
21.101	29.17	.60	29.51	21.01	31.99	281.03	31.98	.25	339.50	345.00	355.00	360.50
21.200	29.36	0.	29.15	46.15	141.90	61.11	141.99	0.	0.	448.66	451.33	0.
21.201	29.83	.77	29.92	29.23	139.09	66.71	139.20	.23	435.38	448.66	451.33	464.62
21.300	32.81	0.	32.81	223.20	152.67	41.55	150.77	0.	0.	448.66	451.33	0.
21.301	33.57	.77	33.59	46.05	154.30	46.47	144.23	.23	425.07	448.66	451.33	471.72
21.400	32.81	0.	32.83	267.14	86.76	165.43	90.80	0.	0.	405.00	415.00	0.
21.401	33.58	.77	33.61	42.32	72.97	188.17	83.85	.22	390.70	405.00	415.00	433.02
21.500	32.91	0.	32.98	134.79	102.20	125.77	117.03	0.	0.	398.25	402.25	0.
21.501	33.67	.76	33.75	26.92	86.73	136.17	122.10	.19	388.79	398.25	402.25	415.71
21.600	32.94	0.	33.01	134.65	102.20	125.76	117.04	0.	0.	398.25	402.25	0.
21.601	33.71	.76	33.77	26.85	86.54	136.31	122.16	.19	388.84	398.25	402.25	415.69
21.700	33.27	0.	33.33	149.00	103.30	122.45	119.25	0.	0.	398.25	402.25	0.
21.701	34.03	.75	34.11	28.15	88.49	133.88	122.62	.20	388.24	398.25	402.25	416.39

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	GCH	OROB	PERENC	STENCL	STCHL	STCHR	STENCR
20.400	33.32	0.	33.38	175.43	183.52	121.64	119.83	0.	0.	398.25	402.25	0.
20.401	34.08	76	34.15	28.47	69.03	133.34	122.63	.21	388.09	398.25	402.25	416.55

FLOODWAY DATA, FLOOD
PROFILE NO. 2

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
	WIDTH	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	
1.000	255.	867.	1.7	4.2	3.2	1.0
2.100	42.	299.	4.9	6.2	6.2	0.
2.200	112.	522.	2.8	6.6	6.5	.1
2.300	114.	618.	2.3	7.5	6.5	1.0
2.400	115.	624.	2.3	7.6	6.6	1.0
3.000	158.	706.	2.0	7.9	7.1	.8
9.000	199.	873.	1.4	9.6	9.2	.4
14.000	77.	476.	2.7	11.4	11.0	.4
15.100	47.	316.	4.0	12.0	11.6	.4
15.200	38.	306.	4.1	12.6	12.2	.4
15.300	49.	501.	2.5	15.8	15.4	.4
15.400	47.	478.	2.6	15.9	15.5	.4
16.100	252.	581.	1.8	17.7	16.7	1.0
16.200	81.	34.	3.1	18.0	17.6	.4
16.300	93.	496.	2.1	19.5	19.1	.4
16.400	161.	772.	1.4	19.7	19.2	.5
18.100	48.	264.	2.5	20.4	19.8	.6
18.200	51.	278.	2.4	21.5	19.9	.6
18.300	104.	751.	.9	23.3	22.7	.6
18.400	103.	742.	.9	23.4	22.8	.6
19.000	46.	188.	1.9	25.4	24.8	.6
21.100	21.	150.	3.4	29.2	28.5	.7
21.200	29.	158.	2.2	29.9	29.1	.8
21.300	47.	373.	.9	33.6	32.8	.8
21.400	42.	345.	1.0	33.6	32.8	.8
22.100	27.	240.	1.4	33.7	32.9	.8
23.200	27.	239.	1.4	33.7	32.9	.8
24.300	26.	253.	1.4	34.1	33.3	.8
24.400	18.	256.	1.3	34.1	33.3	.8