

SUMMARY OF ENCROACHMENTS FOR: COVE CREEK LOWER FLOODWAY E-U
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY E-U (PROFILE
 NUMBER 1. UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1. UPSTREAM COMPUTATIONS). PAGE 1 OF 1

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT LEFT	ENCROACHMENT RIGHT	SURCHARGE IDEAL	SURCHARGE ACTUAL	NATURAL FLOODWAY	CHANNEL WIDTH FLOODWAY
E	500	1	HOR	YES	YES	*****	0.87	*****	213
F-TW	600	0	HOR	YES	YES	*****	0.60	*****	96
RP-FG	700	2	N.A.	N.A.	N.A.	*****	0.60	*****	89
RD-FG	800	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-6	900	5	HOR	YES	YES	*****	0.29	*****	91
H	1000	1	HOR	YES	YES	*****	0.16	*****	100
I	1100	0	HOR	YES	YES	*****	1.06	*****	155
J	1200	0	VHD	YES	YES	1.00	1.07	*****	349
K	1300	0	VHD	YES	YES	1.00	1.53	*****	175
L-TW	1400	0	VHD	YES	CONS	1.00	1.84	*****	124
SO-LM	1500	2	N.A.	N.A.	N.A.	*****	-3.77	*****	34
RO-LM	1550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
M-APP	1600	5	VHD	YES	CONS	1.00	1.57	*****	309
N	1700	0	VHD	YES	CONS	1.00	1.42	*****	331
O	1800	0	VHD	YES	YES	1.00	1.10	*****	121
Q-TW	2100	1	VHD	CONS	YES	1.00	1.41	*****	170
PR-OR	2200	2	N.A.	N.A.	N.A.	*****	0.93	*****	71
PZ-OR	2220	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
QR-RD	2250	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
R	2300	5	VHD	YES	YES	1.00	0.57	*****	246
S	2400	0	VHD	CONS	YES	1.00	1.37	*****	181
T-TW	2500	0	HOR	YES	YES	*****	0.65	*****	134
RO-TU	2600	2	N.A.	N.A.	N.A.	*****	0.65	*****	91
PR-TU	2620	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-U	2790	5	VHD	YES	YES	1.00	-0.02	*****	126

SUMMARY OF ENCRDACHMENTS FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY H-U 3RD (PROFILE
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 1 OF 1

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
H	1000	1	HOR	YES	YES	*****	0.16	*****	100
I	1100	0	HOR	YES	YES	*****	0.98	*****	190
J	1200	0	HOR	YES	YES	*****	0.78	*****	350
K	1300	0	HOR	YES	YES	*****	1.01	*****	290
L-TW	1400	0	HOP	YES	YES	*****	0.82	*****	189
BO-LM	1500	2	N.A.	N.A.	N.A.	*****	-3.77	*****	34
RD-LM	1550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
H-APP	1600	5	HOP	YES	YES	*****	0.59	*****	319
N	1700	0	HOR	YES	YES	*****	0.72	*****	330
O	1800	0	HOR	YES	YES	*****	0.90	*****	141
Q-TW	2100	1	HOR	YES	YES	*****	0.97	*****	189
BR-OR	2200	2	N.A.	N.A.	N.A.	*****	0.93	*****	71
PR-OR	2220	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
QR-RD	2250	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
R	2300	5	HOP	YES	YES	*****	0.24	*****	240
S	2400	0	HOR	YES	YES	*****	0.96	*****	319
T-TW	2500	0	HOR	YES	YES	*****	-0.21	*****	133
BO-TU	2600	2	N.A.	N.A.	N.A.	*****	-0.21	*****	88
PR-TU	2620	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-U	2700	5	HOR	YES	YES	*****	-0.35	*****	125

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7
.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....
9 90100	1000	HOR	80	180	264587	H	/
9 90110	1100	HOR	125	315	264816	I	- 120 - 215 185 - 5
9 90120	1200	HOR	100	450	265204	J	- 150 - 440 240 - 10
9 90130	1300	HOR	175	465	265589	K	- 160 - 465 305 - 15
9 90140	1400	HOR	525	714	266077	L	- 525 - 714 179 - 10
9 90160	1600	HOR	360	679	266180	M	- 380 - 479 299 - 20
9 90170	1700	HOR	330	660	266255	N	- 340 - 660 320 - 10
9 90180	1800	HOR	100	241	266576	O	
9 90210	2100	HOR	16	205	266737	Q	
9 90230	2300	HOR	500	740	266881	R	
9 90240	2400	HOR	10	330	266959	S	
9 90250	2500	HOR	17	151	267288	T	
9 90270	2700	HOR	60	185	267558	U	
9 99999		END					

FLOODWAY H-U 3RD

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....

9	90100	1000	HOP	83	180	264587	H ✓		
9	90110	1100	HOR	140	315	264816	L - 125 - 315	419	
9	90120	1200	HOR	100	460	265204	J - 105 - 450	410	
9	90130	1300	HOR	175	465	265589	K ✓		
9	90140	1400	HOR	530	714	266077	L - 525 - 714	410	
9	90160	1600	HOR	330	679	266180	M - 320 - 679	410	
9	90170	1700	HOR	300	660	266255	N - 330 - 660	410	
9	90180	1800	HOR	100	241	266576	O ✓		
9	90210	2100	HOR	16	205	266737	Q ✓		
9	90230	2300	HOR	500	700	266881	R - 500 - 740	440	
9	90240	2400	HOR	13	300	266959	S - 15 - 330	433	
9	90250	2500	HOR	17	151	267288	T ✓		
9	90270	2700	HOR	60	150	267558	U - 60 - 125	435	
9	99999		END				FLOODWAY H-U	3RD	

SUMMARY OF ENCROACHMENTS FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY H-U 3RD (PROFILE
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 1 OF 1

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
H	1000	1	HOR	YES	YES	*****	0.16	*****	100
I	1100	0	HOR	YES	YES	*****	1.02	*****	175
J	1200	0	HOR	YES	YES	*****	0.83	*****	360
K	1300	0	HOR	YES	YES	*****	0.95	*****	290
L-TW	1400	0	HOR	YES	YES	*****	0.87	*****	184
BO-LM	1500	2	N.A.	N.A.	N.A.	*****	-3.77	*****	34
RD-LM	1550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
M-APP	1600	5	HOR	YES	YES	*****	0.69	*****	349
N	1700	0	HOR	YES	YES	*****	0.69	*****	360
O	1800	0	HOR	YES	YES	*****	0.85	*****	141
Q-TW	2100	1	HOR	YES	YES	*****	0.95	*****	189
BR-QR	2200	2	N.A.	N.A.	N.A.	*****	0.93	*****	71
PR-QR	2220	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
QR-RD	2250	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
R	2300	5	HOR	YES	YES	*****	0.07	*****	200
S	2400	0	HOR	YES	YES	*****	1.17	*****	287
T-TW	2500	0	HOR	YES	YES	*****	-0.09	*****	134
BO-TU	2600	2	N.A.	N.A.	N.A.	*****	-0.09	*****	89
PR-TU	2620	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-U	2700	5	HOR	YES	YES	*****	-1.10	*****	90

SUMMARY OF ENCROACHMENTS FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY H-U 2ND (PROFILE
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 1 OF 1

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
H	1000	1	HOR	YES	YES	*****	0.16	*****	100
I	1100	0	HOR	YES	YES	*****	1.05	*****	160
J	1200	0	HOR	YES	YES	*****	1.01	*****	354
K	1300	0	HOR	YES	YES	*****	1.16	*****	250
L-TW	1400	0	HOR	YES	YES	*****	1.01	*****	184
BO-LM	1500	2	N.A.	N.A.	N.A.	*****	-3.77	*****	34
RD-LM	1550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
M-APP	1600	5	HOR	YES	YES	*****	0.78	*****	359
N	1700	0	HOR	YES	YES	*****	0.73	*****	370
O	1800	0	HOR	YES	YES	*****	0.78	*****	141
Q-TW	2100	1	HOR	YES	YES	*****	0.92	*****	189
BR-OR	2200	2	N.A.	N.A.	N.A.	*****	0.92	*****	71
PR-OR	2220	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
GR-RD	2250	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
R	2300	5	HOR	YES	YES	*****	0.36	*****	225
S	2400	0	HOR	YES	YES	*****	1.31	*****	196
T-TW	2500	0	HOR	YES	YES	*****	0.45	*****	134
BO-TU	2600	2	N.A.	N.A.	N.A.	*****	0.45	*****	91
PR-TU	2620	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-U	2700	5	HOR	YES	YES	*****	-0.32	*****	109

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....							
9 90100	1000	HOR	80	180	264587	H	✓
9 90110	1100	HOR	155	315	264816	I	--- 140 - 315 + 15
9 90120	1200	HOR	115	469	265204	J	--- 100 - 460 + 10
9 90130	1300	HOR	200	450	265589	K	--- 175 - 465 + 10
9 90140	1400	HOR	530	714	266077	L	✓
9 90160	1600	HOR	320	679	266180	M	--- 530 - 679 - 10
9 90170	1700	HOR	300	670	266255	N	--- 300 - 660 - 10
9 90180	1800	HOR	100	241	266576	O	✓
9 90210	2100	HOR	16	205	266737	Q	✓
9 90230	2300	HOR	535	760	266881	R	--- 500 - 700 - 25
9 90240	2400	HOR	35	231	266959	S	--- 15 - 300 + 91
9 90250	2500	HOR	17	151	267288	T	✓
9 90270	2700	HOR	76	185	267558	U	--- 60 - 150 - 19
9 99999		END					

FLOODWAY H-U 2ND

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7
.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....
9 90100	1000	HOR	80	180	264587	H	
9 90110	1100	HOR	130	315	264816	I	
9 90120	1200	HOR	100	440	265204	J	
9 90130	1300	HOR	160	465	265589	K	
9 90140	1400	HOR	535	714	266077	L	192 - 110 218 ←
9 90160	1600	HOR	380	679	266180	M	420 - 279 259 ←
9 90170	1700	HOR	340	660	266255	N	
9 90180	1800	HOR	100	241	266576	O	
9 90210	2100	HOR	16	205	266737	P	10 - 577 501 ←
9 90230	2300	HOR	500	740	266881	Q	
9 90240	2400	HOR	10	330	266959	R	
9 90250	2500	HOR	17	151	267288	T	
9 90270	2700	HOR	60	185	267558	V	
9 90280	2800	VHD 100	34	62	267673	W	15 150
9 90290	2900	VHD 100	207	267	268004	X	185 250
9 90300	3000	VHD 100	90	129	268409	Y	70 245 ← 112 125
9 90320	3200	VHD 100	68	103	268731	Z	53 165 110 137
9 90328	3280	VHD 100	68	103	268746	AA	40 171 110 137
x 9 90330	3300	HOR	132	257	269101	AB	190 300 110 137
9 90340	3400	VHD 100	202	288	269517	AC	44 469 425
9 90350	3500	VHD 100	200	251	269588	AD	90 211 151 153
9 90370	3700	VHD 100	153	204	269593	AE	30 122 78 135
9 90380	3800	VHD 100	65	107	269758	AF	100 312 215 153
9 90390	3900	VHD 100	263	303	269868	AG	43 211 170
x 9 90400	4000	VHD 100	40	76	270084	AH	46 155 109 144
x 9 90410	4100	HOR	44	219	270304	AI	50 190 100 135
9 90415	4150	VHD 100	81	113	270396	AJ	44 140 96 144
9 90420	4200	VHD 100	81	113	270406	AK	4 127 123
9 90430	4300	VHD 100	75	107	270462	AL	36 155 90 138
9 90440	4400	VHD 100	80	125	270512	AM	11 121 100 135
9 90450	4500	VHD 100	71	112	270708	AN	50 150 200 135
9 90470	4700	VHD 100	9	52	270808	AO	180 250 160 135
9 90480	4800	VHD 100	74	119	270891	AP	101 232 232 135
9 90490	4900	VHD 100	188	225	270968	AQ	80 250 179 135
9 90495	4950	VHD 100	188	225	271027	AR	100 250 179 135
9 90510	5100	VHD 100	86	140	271059	AS	80 250 179 135
x 9 90520	5200	HOR	84	211	271430	AT	80 250 179 135
9 90530	5300	VHD 100	450	486	272100	AV	80 250 179 135
9 90540	5400	HOR	105	147	272358	AW	80 250 179 135
9 90560	5600	VHD 100	72	126	272668	AX	80 250 179 135
9 90570	5700	VHD 100	42	78	272721	AY	80 250 179 135
9 90590	5900	VHD 100	21	71	272968	AZ	80 250 179 135
9 90600	6000	VHD 100	19	67	273125	BA	80 250 179 135
x 9 90610	6100	HOR	19	103	273597	BB	80 250 179 135
9 99999		END					

FLOODWAY H-AV

SUMMARY OF ENCROACHMENTS FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY H-AV (PROFILE
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 1 OF 2

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
H	1000	1	HOR	YES	YES	*****	0.16	*****	100
I	1100	0	HOR	YES	YES	*****	0.99	*****	185
J	1200	0	HOR	YES	YES	*****	0.84	*****	340
K	1300	0	HOR	YES	YES	*****	0.99	*****	305
L-TW	1400	0	HOR	YES	YES	*****	0.78	*****	179
RD-LM	1500	2	N.A.	N.A.	N.A.	*****	-3.77	*****	34
RD-LM	1550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
M-APP	1600	5	HOR	YES	YES	*****	0.59	*****	299
N	1700	0	HOR	YES	YES	*****	0.77	*****	320
O	1800	0	HOR	YES	YES	*****	0.92	*****	141
Q-TW	2100	1	HOR	YES	YES	*****	0.97	*****	189
RR-QR	2200	2	N.A.	N.A.	N.A.	*****	0.93	*****	71
PR-QR	2220	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
QR-RD	2250	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
R	2300	5	HOR	YES	YES	*****	0.24	*****	240
S	2400	0	HOR	YES	YES	*****	0.96	*****	319
T-TW	2500	0	HOR	YES	YES	*****	-0.21	*****	133
BO-TU	2600	2	N.A.	N.A.	N.A.	*****	-0.21	*****	88
PR-TU	2620	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-U	2700	5	HOR	YES	YES	*****	-0.35	*****	125
V	2800	0	VHD	YES	YES	1.00	0.48	*****	136
W	2900	1	VHD	YES	YES	1.00	0.99	*****	165
X-TW	3000	0	VHD	CONS	YES	1.00	1.02	*****	87
BO-XY	3100	2	N.A.	N.A.	N.A.	*****	2.01	*****	77
PR-XY	3120	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
RD-XY	3150	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-Y	3200	5	VHD	YES	YES	1.00	-0.24	*****	87
YPRIM	3280	0	VHD	YES	YES	1.00	-0.14	*****	87
Z-DAM	3300	0	HOR	YES	YES	*****	0.00	*****	125
AA	3400	0	VHD	YES	YES	1.00	0.32	*****	128
AB-TW	3500	0	VHD	YES	YES	1.00	0.93	*****	94
RR-OP	3600	2	N.A.	N.A.	N.A.	*****	-3.48	*****	46
PIER	3620	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
ROAD	3650	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AC-AP	3700	5	VHD	YES	CONS	1.00	1.38	*****	98
AD	3800	0	VHD	YES	YES	1.00	1.58	*****	63
AE	3900	0	VHD	YES	CONS	1.00	2.16	*****	166
AF	4000	1	VHD	CONS	YES	1.00	1.40	*****	103
COMP	4100	0	HOR	YES	YES	*****	0.05	*****	175
AG-.1	4150	0	VHD	YES	YES	1.00	-0.99	*****	65

SUMMARY OF ENCROACHMENTS FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY H-AV (PROFILE
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 2 OF 2

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
AG	4200	0	VHD	YES	YES	1.00	-0.40	*****	65
AH	4300	0	VHD	YES	YES	1.00	0.96	*****	52
AI-TW	4400	0	VHD	YES	CONS	1.00	1.65	*****	77
BR-OP	4500	2	N.A.	N.A.	N.A.	*****	-3.22	*****	27
ROAD	4550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AJ-AP	4600	5	VHD	YES	YES	1.00	-0.12	*****	52
AK	4700	0	VHD	CONS	YES	1.00	0.90	*****	121
AL	4800	0	VHD	CONS	YES	1.00	1.07	*****	195
AM	4900	0	VHD	YES	YES	1.00	0.94	*****	67
AM+.5	4950	0	VHD	YES	YES	1.00	1.64	*****	68
BRIDG	5000	2	N.A.	N.A.	N.A.	*****	-1.77	*****	39
ROAD	5050	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AN	5100	5	VHD	CONS	YES	1.00	2.36	*****	125
AO	5200	0	HOR	YES	YES	*****	0.65	*****	127
AP	5300	0	VHD	YES	YES	1.00	0.11	*****	83
AQ-TW	5400	0	HOR	YES	YES	*****	1.29	*****	42
BRIDG	5500	2	N.A.	N.A.	N.A.	*****	-1.18	*****	45
PIER	5520	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
ROAD	5550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AR	5600	5	VHD	YES	YES	1.00	0.59	*****	57
AS-TW	5700	0	VHD	CONS	YES	1.00	1.06	*****	68
BRIDG	5800	2	N.A.	N.A.	N.A.	*****	-0.11	*****	41
PIER	5820	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
ROAD	5850	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AT	5900	5	VHD	CONS	YES	1.00	0.42	*****	80
AU	6000	0	VHD	CONS	YES	1.00	0.52	*****	53
AV	6100	1	HOR	YES	YES	*****	*****	*****	84

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 2,DATE= 1/14/78

INPUT SUMMARY FOR: COVE CREEK UPPER X-SECTION PROPERTIES DUMMY-4

1 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 1 TYPE 3 CARDS

KEPT 1 CROSS SECTIONS FOR EDITING

1 " " VALID FOR PROPERTY COMPUTATIONS

0 " " " " PROFILE "

INPUT SUMMARY FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW

5 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 5 TYPE 3 CARDS

KEPT 5 CROSS SECTIONS FOR EDITING

5 " " VALID FOR PROPERTY COMPUTATIONS

5 " " " " PROFILE "

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

DUM-4: FRDN FAILURE

: WS = 2796.23 & FR = 2.46:

: ALERTED USER

DUM-3: KU/KD < 0.7 OR > 1.4

: ALERTED USER

DUM-2: KU/KD < 0.7 OR > 1.4

: ALERTED USER

DUM-1: KU/KD < 0.7 OR > 1.4

: ALERTED USER

AW : KU/KD < 0.7 OR > 1.4

: ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS:

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG //   V /   FN /   ACC  *ID*
=====
DUM-4 AT  46449 /    0 /  1310. /  102. /  2967. / 1.48 /  43. /  312.
          2796.23 /  3.77 /           / 2800.00 / 12.82 /  2.46/      *IS*
-----
DUM-3 AT  46562 /  113 /  1310. /  1199. /  97732. / 1.04 /  11. /  383.
          2800.66 /  0.02 /  0.67 /  0.0 / 2800.67 /  1.09 /  0.11 /  0.002 *XS*
-----
DUM-2 AT  46675 /  113 /  1310. /   839. /  55788. / 1.06 /  13. /  376.
          2800.68 /  0.04 /  0.04 /  0.01 / 2800.72 /  1.56 /  0.18 / -0.000 *XS*
-----
DUM-1 AT  46787 /  112 /  1310. /   521. /  26017. / 1.08 /  14. /  358.
          2800.78 /  0.11 /  0.13 /  0.03 / 2800.89 /  2.52 /  0.33 /  0.000 *XS*
-----
AW   AT  46900 /  113 /  1310. /   351. /  13984. / 1.22 /  15. /  316.
          2801.24 /  0.26 /  0.53 /  0.08 / 2801.50 /  3.73 /  0.55 /  0.001 *XS*
=====
    
```

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
DUM-4 AT 46449 / 0 / 1310. / 349. / 13894. / 1.22 / 15. / 316.
2797.23 / 0.27 / / 2797.50 / 3.75 / 0.55 / *IS*
-----
DUM-3 AT 46562 / 113 / 1310. / 349. / 13894. / 1.22 / 15. / 316.
2799.23 / 0.27 / 1.00 / 0.0 / 2798.50 / 3.75 / 0.55 / -0.005 *XS*
-----
DUM-2 AT 46675 / 113 / 1310. / 349. / 13894. / 1.22 / 15. / 316.
2799.23 / 0.27 / 1.00 / 0.0 / 2799.50 / 3.75 / 0.55 / -0.005 *XS*
-----
DUM-1 AT 46787 / 112 / 1310. / 349. / 13894. / 1.22 / 15. / 316.
2800.23 / 0.27 / 1.00 / 0.0 / 2800.50 / 3.75 / 0.55 / 0.004 *XS*
-----
AW AT 46900 / 113 / 1310. / 349. / 13894. / 1.22 / 15. / 316.
2801.23 / 0.27 / 1.00 / 0.0 / 2801.50 / 3.75 / 0.55 / -0.005 *XS*
=====
    
```

OK

10-Kr

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 10,DATE= 1/19/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER. STARTING ELEVATIONS DUM4-AW
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

DUM-3; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
DUM-4 AT 46449 / 0 / 1310. / 677. / 40088. / 1.06 / 13. / 367.
2798.23 / 0.06 / / 2798.29 / 1.93 / 0.24 / *IS*
-----
DUM-3 AT 46562 / 113 / 1310. / 413. / 17857. / 1.15 / 15. / 317.
2798.44 / 0.18 / 0.27 / 0.06 / 2798.62 / 3.17 / 0.45 / -0.000 *XS*
-----
DUM-2 AT 46675 / 113 / 1310. / 338. / 13346. / 1.22 / 15. / 316.
2799.19 / 0.29 / 0.81 / 0.05 / 2799.48 / 3.88 / 0.57 / -0.011 *XS*
-----
DUM-1 AT 46787 / 112 / 1310. / 352. / 14028. / 1.22 / 15. / 316.
2800.24 / 0.26 / 1.03 / 0.0 / 2800.50 / 3.73 / 0.55 / -0.002 *XS*
-----
AW AT 46900 / 113 / 1310. / 352. / 14028. / 1.22 / 15. / 316.
2801.24 / 0.26 / 0.99 / 0.0 / 2801.50 / 3.73 / 0.55 / 0.014 *XS*
=====
    
```

END OF THIS PROFILE.

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID AT DISTANCE/	LENGTH/DISCHARGE/	AREA /CONVEYANCE/	ALPHA/	LEW /	REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC	*ID*				
DUM-4 AT 46449 / 0 / 2260. / 209. / 7000. / 1.37 / 29. / 314.					
2796.70 / 2.48 / / 2799.18 / 10.80 / 2.00/	*IS*				
DUM-3 AT 46562 / 113 / 2260. / 1024. / 75987. / 1.05 / 12. / 382.					
2800.18 / 0.08 / 1.09 / 0.0 / 2800.26 / 2.21 / 0.23 / 0.001	*XS*				
DUM-2 AT 46675 / 113 / 2260. / 708. / 43084. / 1.06 / 13. / 368.					
2800.32 / 0.17 / 0.18 / 0.04 / 2800.49 / 3.19 / 0.39 / 0.001	*XS*				
DUM-1 AT 46787 / 112 / 2260. / 514. / 25494. / 1.08 / 14. / 357.					
2800.76 / 0.33 / 0.52 / 0.08 / 2801.09 / 4.40 / 0.58 / 0.002	*XS*				
AW AT 46900 / 113 / 2260. / 493. / 23868. / 1.09 / 14. / 356.					
2801.70 / 0.36 / 0.95 / 0.01 / 2802.06 / 4.59 / 0.62 / 0.004	*XS*				

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
DUM-4 AT 46449 / 0 / 1310. / 677. / 40088. / 1.06 / 13. / 367.
2798.23 / 0.06 / / 2798.29 / 1.93 / 0.24/ *IS*
-----
DUM-3 AT 46562 / 113 / 1310. / 413. / 17857. / 1.15 / 15. / 317.
2798.44 / 0.18 / 0.27 / 0.06 / 2798.62 / 3.17 / 0.45 / -0.000 *XS*
-----
DUM-2 AT 46675 / 113 / 1310. / 338. / 13346. / 1.22 / 15. / 316.
2799.19 / 0.29 / 0.81 / 0.05 / 2799.48 / 3.88 / 0.57 / -0.011 *XS*
-----
DUM-1 AT 46787 / 112 / 1310. / 352. / 14028. / 1.22 / 15. / 316.
2800.24 / 0.26 / 1.03 / 0.0 / 2800.50 / 3.73 / 0.55 / -0.002 *XS*
-----
AW AT 46900 / 113 / 1310. / 352. / 14028. / 1.22 / 15. / 316.
2801.24 / 0.26 / 0.99 / 0.0 / 2801.50 / 3.73 / 0.55 / 0.014 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

DUM-4; FRDN FAILURE

; WS = 2796.70 & FR = 2.00;

DUM-3; KU/KD < 0.7 OR > 1.4

ALERTED USER

DUM-2; KU/KD < 0.7 OR > 1.4

ALERTED USER

DUM-1; KU/KD < 0.7 OR > 1.4

ALERTED USER

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC  *ID*
=====
DUM-4 AT 46449 /    0 / 2260. / 209. / 7000. / 1.37 / 29. / 314.
      2796.70 / 2.48 /           / 2799.18 / 10.80 / 2.00/      *IS*
-----
DUM-3 AT 46562 / 113 / 2260. / 1024. / 75987. / 1.05 / 12. / 382.
      2800.18 / 0.08 / 1.09 / 0.0 / 2800.26 / 2.21 / 0.23 / 0.001 *XS*
-----
DUM-2 AT 46675 / 113 / 2260. / 708. / 43084. / 1.06 / 13. / 368.
      2800.32 / 0.17 / 0.18 / 0.04 / 2800.49 / 3.19 / 0.39 / 0.001 *XS*
-----
DUM-1 AT 46787 / 112 / 2260. / 514. / 25494. / 1.08 / 14. / 357.
      2800.76 / 0.33 / 0.52 / 0.08 / 2801.09 / 4.40 / 0.58 / 0.002 *XS*
-----
AW AT 46900 / 113 / 2260. / 493. / 23868. / 1.09 / 14. / 356.
      2801.70 / 0.36 / 0.95 / 0.01 / 2802.06 / 4.59 / 0.62 / 0.004 *XS*
=====
    
```

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
 PAGE 1 OF 1, PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*
DUM-4	AT 46449	/ 0	/ 2260.	/ 493.	/ 23876.	/ 1.09	/ 14.	/ 356.
	2797.70	/ 0.36	/	/ 2798.06	/ 4.59	/ 0.62		*IS*
DUM-3	AT 46562	/ 113	/ 2260.	/ 493.	/ 23876.	/ 1.09	/ 14.	/ 356.
	2798.70	/ 0.36	/ 1.01	/ 0.0	/ 2799.06	/ 4.59	/ 0.62	/ -0.013 *XS*
DUM-2	AT 46675	/ 113	/ 2260.	/ 493.	/ 23876.	/ 1.09	/ 14.	/ 356.
	2799.70	/ 0.36	/ 1.01	/ 0.0	/ 2800.06	/ 4.59	/ 0.62	/ -0.013 *XS*
DUM-1	AT 46787	/ 112	/ 2260.	/ 493.	/ 23876.	/ 1.09	/ 14.	/ 356.
	2800.70	/ 0.36	/ 1.00	/ 0.0	/ 2801.06	/ 4.59	/ 0.62	/ -0.004 *XS*
AW	AT 46900	/ 113	/ 2260.	/ 493.	/ 23876.	/ 1.09	/ 14.	/ 356.
	2801.70	/ 0.36	/ 1.01	/ 0.0	/ 2802.06	/ 4.59	/ 0.62	/ -0.013 *XS*

OK

50-Yr.

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 15,DATE= 1/19/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
PROFILE NUMBER 6. UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

DUM-3; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
 PAGE 1 OF 1, PROFILE NUMBER 6, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC  *ID*
=====
DUM-4 AT 46449 /    0 / 2260. / 846. / 56504. / 1.06 / 13. / 376.
      2798.70 / 0.12 /           / 2798.82 / 2.67 / 0.30/      *IS*
-----
DUM-3 AT 46562 / 113 / 2260. / 579. / 30896. / 1.07 / 14. / 361.
      2798.95 / 0.25 / 0.33 / 0.07 / 2799.20 / 3.90 / 0.50 / -0.013 *XS*
-----
DUM-2 AT 46675 / 113 / 2260. / 493. / 23876. / 1.09 / 14. / 356.
      2799.70 / 0.36 / 0.78 / 0.05 / 2800.06 / 4.59 / 0.62 / 0.013 *XS*
-----
DUM-1 AT 46787 / 112 / 2260. / 493. / 23876. / 1.09 / 14. / 356.
      2800.70 / 0.36 / 1.00 / 0.0 / 2801.06 / 4.59 / 0.62 / -0.004 *XS*
-----
AW      AT 46900 / 113 / 2260. / 493. / 23876. / 1.09 / 14. / 356.
      2801.70 / 0.36 / 1.01 / 0.0 / 2802.06 / 4.59 / 0.62 / -0.013 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

DUM-4; FRDN FAILURE

; WS = 2796.89 & FR = 1.65;

ALERTED USER

DUM-3; KU/KD < 0.7 OR > 1.4

ALERTED USER

DUM-2; KU/KD < 0.7 OR > 1.4

ALERTED USER

DUM-1; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
 PAGE 1 OF 1, PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC  *ID*
=====
DUM-4 AT  46449 /    0 /  2740. /  257. /  9323. / 1.30 /  24. /  315.
          2796.89 /  2.29 /           / 2799.18 / 10.66 /  1.65/   *IS*
-----
DUM-3 AT  46562 /  113 /  2740. / 1043. / 78228. / 1.05 /  12. /  382.
          2800.24 /  0.11 /  1.16 /  0.0 / 2800.35 /  2.63 /  0.27 /  0.003 *XS*
-----
DUM-2 AT  46675 /  113 /  2740. /  743. / 46330. / 1.06 /  13. /  370.
          2800.41 /  0.22 /  0.23 /  0.06 / 2800.64 /  3.69 /  0.44 /  0.000 *XS*
-----
DUM-1 AT  46787 /  112 /  2740. /  573. / 30403. / 1.07 /  14. /  361.
          2800.93 /  0.38 /  0.60 /  0.08 / 2801.31 /  4.78 /  0.62 /  0.000 *XS*
-----
AW      AT  46900 /  113 /  2740. /  557. / 29037. / 1.08 /  14. /  360.
          2801.89 /  0.40 /  0.96 /  0.01 / 2802.29 /  4.92 /  0.64 /  0.004 *XS*
=====
    
```

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
 PAGE 1 OF 1, PROFILE NUMBER 8, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
DUM-4	AT	46449	/	0	/	2740.	/	558.	/	29109.	/	1.08	/	14.	/	360.	
		2797.89	/	0.40	/		/	2798.29	/	4.91	/	0.64	/				*IS*
DUM-3	AT	46562	/	113	/	2740.	/	558.	/	29109.	/	1.08	/	14.	/	360.	
		2798.89	/	0.40	/	1.00	/	0.0	/	2799.29	/	4.91	/	0.64	/	-0.002	*XS*
DUM-2	AT	46675	/	113	/	2740.	/	558.	/	29109.	/	1.08	/	14.	/	360.	
		2799.89	/	0.40	/	1.00	/	0.0	/	2800.29	/	4.91	/	0.64	/	-0.002	*XS*
DUM-1	AT	46787	/	112	/	2740.	/	558.	/	29109.	/	1.08	/	14.	/	360.	
		2800.89	/	0.40	/	0.99	/	0.0	/	2801.29	/	4.91	/	0.64	/	0.008	*XS*
AW	AT	46900	/	113	/	2740.	/	558.	/	29109.	/	1.08	/	14.	/	360.	
		2801.89	/	0.40	/	1.00	/	0.0	/	2802.29	/	4.91	/	0.64	/	-0.002	*XS*

OK

100-Yr.

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 20,DATE= 1/19/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
PROFILE NUMBER 9, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

DUM-3; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
 PAGE 1 OF 1, PROFILE NUMBER 9, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
DUM-4 AT 46449 / 0 / 2740. / 915. / 63777. / 1.06 / 12. / 380.
2798.89 / 0.15 / / 2799.04 / 2.99 / 0.33/ *IS*
=====
DUM-3 AT 46562 / 113 / 2740. / 656. / 38021. / 1.06 / 13. / 365.
2799.17 / 0.29 / 0.35 / 0.07 / 2799.46 / 4.18 / 0.52 / 0.001 *XS*
=====
DUM-2 AT 46675 / 113 / 2740. / 556. / 28959. / 1.08 / 14. / 360.
2799.88 / 0.41 / 0.77 / 0.06 / 2800.29 / 4.92 / 0.64 / 0.002 *XS*
=====
DUM-1 AT 46787 / 112 / 2740. / 556. / 28959. / 1.08 / 14. / 360.
2800.88 / 0.41 / 1.00 / 0.0 / 2801.29 / 4.92 / 0.64 / -0.003 *XS*
=====
AW AT 46900 / 113 / 2740. / 556. / 28959. / 1.08 / 14. / 360.
2801.88 / 0.41 / 1.01 / 0.0 / 2802.29 / 4.92 / 0.64 / -0.012 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
PROFILE NUMBER 10, UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

DUM-4: FRON FAILURE

WS = 2797.31 & FR = 1.571

DUM-3: KU/KD < 0.7 OR > 1.4

ALERTED USER

DUM-2: KU/KD < 0.7 OR > 1.4

ALERTED USER

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
 PAGE 1 OF 1, PROFILE NUMBER 10, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
DUM-4	AT 46449	/ 0	/ 4040.	/ 373.	/ 15156.	/ 1.21	/ 15.	/ 316.
	2797.31	/ 2.20	/	/ 2799.51	/ 10.84	/ 1.57		*IS*
DUM-3	AT 46562	/ 113	/ 4040.	/ 1179.	/ 95170.	/ 1.04	/ 11.	/ 383.
	2800.60	/ 0.19	/ 1.28	/ 0.0	/ 2800.79	/ 3.43	/ 0.34	/ 0.002 *XS*
DUM-2	AT 46675	/ 113	/ 4040.	/ 901.	/ 62316.	/ 1.06	/ 12.	/ 379.
	2800.85	/ 0.33	/ 0.31	/ 0.07	/ 2801.18	/ 4.48	/ 0.50	/ 0.009 *XS*
DUM-1	AT 46787	/ 112	/ 4040.	/ 741.	/ 46172.	/ 1.06	/ 13.	/ 370.
	2801.41	/ 0.49	/ 0.64	/ 0.08	/ 2801.90	/ 5.45	/ 0.65	/ 0.001 *XS*
AW	AT 46900	/ 113	/ 4040.	/ 709.	/ 43156.	/ 1.06	/ 13.	/ 368.
	2802.32	/ 0.53	/ 0.93	/ 0.02	/ 2802.85	/ 5.70	/ 0.69	/ 0.007 *XS*

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
 PAGE 1 OF 1, PROFILE NUMBER 11, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW							
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID								
DUM-4	AT	46449	/	0	/	4040.	/	705.	/	42827.	/	1.06	/	13.	/	368.
		2798.31	/	0.54	/		/	2798.85	/	5.73	/	0.70	/		/	*IS*
DUM-3	AT	46562	/	113	/	4040.	/	705.	/	42827.	/	1.06	/	13.	/	368.
		2799.31	/	0.54	/	1.01	/	0.0	/	2799.85	/	5.73	/	0.70	/	-0.006 *XS*
DUM-2	AT	46675	/	113	/	4040.	/	705.	/	42827.	/	1.06	/	13.	/	368.
		2800.31	/	0.54	/	1.01	/	0.0	/	2800.85	/	5.73	/	0.70	/	-0.006 *XS*
DUM-1	AT	46787	/	112	/	4040.	/	705.	/	42827.	/	1.06	/	13.	/	368.
		2801.31	/	0.54	/	1.00	/	0.0	/	2801.85	/	5.73	/	0.70	/	0.003 *XS*
AW	AT	46900	/	113	/	4040.	/	705.	/	42827.	/	1.06	/	13.	/	368.
		2802.31	/	0.54	/	1.01	/	0.0	/	2802.85	/	5.73	/	0.70	/	-0.006 *XS*

OK

500-Y

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER STARTING ELEVATIONS: DUM4-AW
PROFILE NUMBER 12. UPSTREAM COMPUTATIONS:

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

DUM-3: KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER STARTING ELEVATIONS DUM4-AW
 PAGE 1 OF 1, PROFILE NUMBER 12, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
DUM-4	AT	46449	/	0	/	4040.	/	1070.	/	81538.
		2799.31	/	0.23	/	2799.54	/	3.77	/	0.39
										IS
DUM-3	AT	46562	/	113	/	4040.	/	826.	/	54475.
		2799.65	/	0.39	/	0.42	/	0.08	/	2800.04
								4.89	/	0.56
										0.000 *XS*
DUM-2	AT	46675	/	113	/	4040.	/	720.	/	44216.
		2800.35	/	0.52	/	0.77	/	0.06	/	2800.87
								5.61	/	0.68
										0.003 *XS*
DUM-1	AT	46787	/	112	/	4040.	/	706.	/	42851.
		2801.31	/	0.54	/	0.96	/	0.01	/	2801.85
								5.73	/	0.70
										0.005 *XS*
AW	AT	46900	/	113	/	4040.	/	706.	/	42851.
		2802.31	/	0.54	/	1.00	/	0.0	/	2802.85
								5.73	/	0.70
										-0.005 *XS*

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....								
1	1	COVE CREEK UPPER	10.50,100.500	U & D	AW-80	10	8 02 05 10	
2	2	28012, -99999	280170 -99999	280189 -99999	280231 -99999			
3	1030	AW	1 20 3 2799	46900 99 99				
4	1040	1310	1310	2260	2260	2740	2740	4040 4040
5	1051	0	1 28105	15 1 28012	61 1 27996	100	1 28003	150 1 28002
5	1052	290	1 27995	250 1 28013	272 2 28011	277	2 27988	277 2 27986
5	1053	279	2 27975	285 2 27976	290 2 27981	294	2 27986	295 2 27987
5	1054	311	2 27999	318 3 28017	354 3 28016	382	3 28030	395 3 28110
5	1060	1	2 045 040	1 2 055 045	1 2 045 040			
3	2030	AK	6 19 3 2805	47520 99 99				
5	2051	0	1 28160	25 1 28055	50 1 28057	100	1 28073	150 1 28081
5	2052	200	1 28084	250 1 28083	283 2 28073	290	2 28036	294 2 28030
5	2053	298	2 28030	305 2 28032	306 2 28036	310	3 28058	350 3 28094
5	2054	402	3 28112	419 3 28118	431 3 28133	447	3 28159	
6	2060	1	2 045 035	1 2 055 055	1 2 045 035			
3	3030	AY	1 20 2 2822	48680 99 99				
4	3040	990	990	1730	1730	2110	2110	3150 3150
5	3051	0	1 28324	9 1 28259	19 1 28236	27	1 28218	28 1 28209
5	3052	32	1 28202	34 1 28199	38 1 28195	43	1 28210	44 2 28244
5	3053	109	2 28258	150 2 28274	165 2 28288	167	2 28286	186 2 28291
5	3054	225	2 28288	237 2 28284	245 2 28300	250	2 28317	253 2 28333
6	3060	1	2 040 050	1 2 045 035				
3	4030	A7	1 34 3 2839	49495 99 99				
4	4040	730	730	1280	1280	1570	1570	2380 2380
5	4051	0	1 28495	15 1 28479	64 1 28441	100	1 28418	110 1 28403
5	4052	120	1 28400	137 1 28401	178 1 28392	200	1 28391	228 1 28397
5	4053	246	1 28397	272 1 28402	286 1 28399	300	1 28398	303 1 28400
5	4054	305	1 28390	307 1 28407	315 1 28407	318	1 28400	322 1 28398
5	4055	325	2 28388	325 2 28373	326 2 28367	328	2 28365	330 2 28368
5	4056	333	2 28367	336 2 28372	337 2 28383	341	3 28403	347 3 28427
5	4057	355	3 28435	373 3 28431	375 3 28427	382	3 28497	
6	4060	1	2 050 040	1 2 055 055	1 2 070 055			
3	5030	COMP1	0 13 3 2840	49522 99 99				
5	5051	0	1 28497	100 1 28453	200 1 28417	244	1 28409	330 2 28434
5	5052	330	2 28375	334 2 28374	338 2 28375	342	2 28380	342 3 28437
5	5053	344	3 28438	380 3 28431	390 3 28480			
6	5060	1	2 035 035	1 2 050 050	1 2 035 035			
3	6030	BA	0 25 5 2841	49562 99 99				
5	6051	0	1 28515	50 1 28447	84 1 28429	100	1 28430	120 1 28434
5	6052	122	1 28418	126 1 28429	140 1 28429	200	1 28474	236 1 28415
5	6053	250	1 28416	290 2 28416	293 3 28399	295	3 28387	297 3 28383
5	6054	301	3 28383	305 3 28382	307 3 28387	309	4 28402	314 5 28440
5	6055	322	5 28451	340 5 28454	349 5 28439	355	5 28461	362 5 28515
6	6060	1	2 045 035	1 2 050 050	1 2 050 050	1 2 050 050	1 2 040 040	
3	7030	BA	0 21 3 2850	50060 99 99				

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
5 7051	0	1 28583	4	1 28565	35	1 28520	68	1 28510 100 1 28511
5 7052	137	2 28517	142	2 28510	144	2 28491	145	2 28482 148 2 28476
5 7053	150	2 28476	153	2 28478	155	2 28481	158	2 28505 160 3 28513
5 7054	160	3 28515	215	3 28524	234	3 28535	255	3 28537 258 3 28528
5 7055	268	5 28582						
6 7060	1 2 050 040	1 2 055 055	1 2 045 035					
3 8030	COMP2 0	15 3 2850	50070 99 99					
5 8051	-145	1 28590	-110	1 28530	-77	1 28510	-45	1 28511 -8 1 28517
5 8052	0	2 28513	0	2 28479	5	2 28479	8	2 28477 8 3 28514
5 8053	50	3 28518	109	3 28536	119	3 28536	122	3 28530 132 3 28580
6 8060	1 2 040 040	1 2 050 050	1 2 035 035					
3 9030	RC 0	21 5 2850	50109 99 99					
5 9051	0	1 28592	40	1 28538	80	1 28520	100	1 28519 130 2 28517
5 9052	143	2 28508	146	3 28498	147	3 28491	148	3 28487 150 3 28485
5 9053	153	3 28488	155	3 28491	156	4 28495	162	5 28519 163 5 28515
5 9054	200	5 28521	242	5 28538	251	5 28542	262	5 28538 267 5 28524
5 9055	280	5 28593						
6 9060	1 2 050 040	1 2 050 050	1 2 050 050	1 2 045 035				
3 10030	RD-TW 0	21 3 2858	50498 99 99					
5 10051	0	1 28678	20	1 28621	47	1 28599	100	1 28604 140 1 28594
5 10052	150	2 28598	172	2 28575	179	2 28569	180	2 28564 182 2 28558
5 10053	184	2 28558	187	2 28556	189	2 28563	190	2 28570 194 2 28592
5 10054	200	3 28622	216	3 28632	228	3 28630	249	3 28616 250 3 28615
5 10055	256	3 28674						
6 10060	1 2 045 035	1 2 055 055	1 2 045 035					

INPUT SUMMARY FOR: COVE CREEK UPPER 10.50,100.500 U & D AW-RO

10 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 10 TYPE 3 CARDS

KEPT 10 CROSS SECTIONS FOR EDITING

10 " " VALID FOR PROPERTY COMPUTATIONS

10 " " " " PROFILE "

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER 10,50,100,500 U & D AW-RD
 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECTION: ERROR (WARNING) MESSAGE; INTERMEDIATE RESULTS (IF ANY); ACTION TAKEN

AX	:	WS TOO LOW	:		USED WSMIN = WSC
AY	:	WS TOO LOW	:		USED WSMIN = WSC
AZ	:	WS TOO LOW	:		USED WSMIN = WSC
AZ	:	WS NOT FOUND BETWEEN	:		USED WSMIN = WSC
			:	WS = 2840.41 & WS = 2849.70;	
A7	:	WS NOT FOUND	:		USED DEL = 0.25
			:		ASSUMED WS = WSC
COMP1	:	WS NOT FOUND BETWEEN	:		USED DEL = 0.25
			:	WS = 2840.16 & WS = 2849.70;	
COMP1	:	WS NOT FOUND BETWEEN	:		USED WSMIN = WSC
			:	WS = 2840.16 & WS = 2849.70;	
COMP1	:	WS NOT FOUND	:		ASSUMED WS = WSC
BB	:	WS TOO LOW	:		USED WSMIN = WSC
BB	:	WS NOT FOUND BETWEEN	:		USED DEL = 0.25
			:	WS = 2852.13 & WS = 2858.30;	
BB	:	WS NOT FOUND	:		ASSUMED WS = WSC
BD-TW	:	WS TOO LOW	:		USED WSMIN = WSC
BD-TW	:	WS NOT FOUND BETWEEN	:		USED DEL = 0.25
			:	WS = 2860.29 & WS = 2867.80;	
BD-TW	:	WS NOT FOUND	:		ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER 10 50,100,500 (U) A D AW-80
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	LV	HF	HE	EG	V	FN	ACC	REW	ID							
AW	AT	46900	/	0	/	1310.	/	349.	/	13894.	/	1.22	/	15.	/	316.		
		2801.23	/	0.27	/	2801.50	/	3.75	/	0.55	/						*IS*	
AX	AT	47520	/	620	/	1310.	/	251.	/	11566.	/	1.28	/	20.	/	331.		
		2807.73	/	0.54	/	6.62	/	0.14	/	2808.27	/	5.22	/	0.65	/	0.013		*XS*
AY	AT	48680	/	1160	/	990.	/	131.	/	7431.	/	1.18	/	12.	/	87.		
		2825.32	/	1.05	/	17.85	/	0.25	/	2826.37	/	7.55	/	0.80	/	-0.001		*XS*
AZ	AT	49495	/	815	/	730.	/	192.	/	5751.	/	1.51	/	109.	/	341.		
		2840.41	/	0.34	/	*****	/	*****	/	2840.75	/	3.81	/	0.63	/	*****		*XS*
COMP1	AT	49522	/	27	/	730.	/	140.	/	6226.	/	1.19	/	183.	/	342.		
		2842.30	/	0.50	/	*****	/	*****	/	2842.80	/	5.22	/	0.55	/	*****		*XS*
BA	AT	49562	/	40	/	730.	/	188.	/	8466.	/	1.80	/	121.	/	312.		
		2842.80	/	0.42	/	0.40	/	0.0	/	2843.22	/	3.89	/	0.55	/	0.015		*XS*
BB	AT	50050	/	498	/	730.	/	170.	/	5944.	/	1.44	/	34.	/	204.		
		2852.13	/	0.41	/	*****	/	*****	/	2852.54	/	4.29	/	0.66	/	*****		*XS*
COMP2	AT	50070	/	10	/	730.	/	175.	/	6917.	/	1.12	/	-100.	/	69.		
		2852.38	/	0.30	/	0.13	/	0.0	/	2852.68	/	4.16	/	0.69	/	0.007		*XS*
BC	AT	50109	/	39	/	730.	/	165.	/	6597.	/	1.73	/	64.	/	268.		
		2852.71	/	0.53	/	0.46	/	0.11	/	2853.24	/	4.43	/	0.71	/	-0.005		*XS*
BD-TX	AT	50498	/	389	/	730.	/	137.	/	5700.	/	1.35	/	42.	/	196.		
		2860.29	/	0.60	/	*****	/	*****	/	2860.89	/	5.34	/	0.70	/	*****		*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: COVE CREEK UPPER 10,50,100,500 U & D AW-80
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AX	AY	AZ	COMPI	BB	RD-TW
WSC	2807.30	2825.32	2840.41	2842.30	2852.13	2860.29

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER 10,50,100,500 U & D AW-90
 PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
RD-TW	WS TOO LOW		ASSUMED WS = WSC
BC	SUPERCritical WS		COMPUTED WSA
COMP2	SUPERCritical WS		COMPUTED WSA
RB	WS NOT FOUND BETWEEN	WS = 2852.13 & WS = 2847.80	USED DEL = 0.25
RB	WS NOT FOUND BETWEEN	WS = 2852.13 & WS = 2847.80	USED KE = 0.5
BR	WS NOT FOUND		ASSUMED WS = WSC
HA	SUPERCritical WS		COMPUTED WSA
COMP1	WS NOT FOUND BETWEEN	WS = 2842.30 & WS = 2837.60	USED DEL = 0.25
COMP1	WS NOT FOUND BETWEEN	WS = 2842.30 & WS = 2837.60	USED KE = 0.5
COMP1	WS NOT FOUND		ASSUMED WS = WSC
AZ	KU/KD < 0.7 OR > 1.4		ALERTED USER
AZ	SUPERCritical WS		COMPUTED WSA
AY	WS NOT FOUND BETWEEN	WS = 2825.32 & WS = 2819.70	USED DEL = 0.25
AY	WS NOT FOUND BETWEEN	WS = 2825.32 & WS = 2819.70	USED KE = 0.5
AY	WS NOT FOUND		ASSUMED WS = WSC
AX	WS NOT FOUND BETWEEN	WS = 2807.30 & WS = 2803.20	USED DEL = 0.25
AX	WS NOT FOUND BETWEEN	WS = 2807.30 & WS = 2803.20	USED KE = 0.5
AX	WS NOT FOUND		ASSUMED WS = WSC
AW	WS NOT FOUND BETWEEN	WS = 2800.97 & WS = 2797.70	USED DEL = 0.25
AW	WS NOT FOUND BETWEEN	WS = 2800.97 & WS = 2797.70	USED KE = 0.5
AW	WS NOT FOUND		ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER 10 50,100,500 U.S. (11) AW-RD
 PAGE 1 OF 1, PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	AT	WS ELEV	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	REW					
			HV	HF	HC	EG	V	FN	ACC	ID						
BD-TW	AT	50498	/	0	/	730.	/	137.	/	5700.	/	1.35	/	42.	/	196.
		2860.29	/	0.60	/		/	2860.89	/	5.34	/	1.10	/		/	*IS*
BC	AT	50109	/	-389	/	730.	/	126.	/	4870.	/	1.86	/	70.	/	257.
		2852.45	/	0.97	/	7.47	/	0.0	/	2853.42	/	5.79	/	1.46	/	0.003 *XS*
COMP2	AT	50070	/	-34	/	730.	/	152.	/	5688.	/	1.17	/	-97.	/	64.
		2852.24	/	0.42	/	0.75	/	0.0	/	2852.65	/	4.79	/	0.94	/	0.013 *XS*
BB	AT	50060	/	-10	/	730.	/	170.	/	5944.	/	1.44	/	34.	/	204.
		2852.13	/	0.41	/	*****	/	*****	/	2852.54	/	4.29	/	0.91	/	***** *XS*
BA	AT	49562	/	-498	/	730.	/	105.	/	4893.	/	1.67	/	122.	/	312.
		2842.16	/	1.25	/	9.12	/	0.0	/	2843.41	/	6.93	/	1.57	/	0.005 *XS*
COMP1	AT	49522	/	-40	/	730.	/	140.	/	6226.	/	1.19	/	183.	/	342.
		2842.30	/	0.50	/	*****	/	*****	/	2842.80	/	5.22	/	0.93	/	***** *XS*
AZ	AT	49495	/	-27	/	730.	/	88.	/	2531.	/	1.85	/	147.	/	340.
		2839.89	/	1.98	/	0.91	/	0.0	/	2841.87	/	8.30	/	2.56	/	0.019 *XS*
AY	AT	48680	/	-815	/	990.	/	131.	/	7431.	/	1.18	/	12.	/	87.
		2825.32	/	1.05	/	*****	/	*****	/	2826.37	/	7.55	/	1.10	/	***** *XS*
AX	AT	47520	/	-1160	/	1310.	/	189.	/	8662.	/	1.20	/	21.	/	327.
		2807.30	/	0.90	/	*****	/	*****	/	2808.20	/	6.92	/	1.08	/	***** *XS*
AW	AT	46900	/	-620	/	1310.	/	277.	/	10304.	/	1.26	/	22.	/	315.
		2800.97	/	0.44	/	*****	/	*****	/	2801.41	/	4.73	/	0.91	/	***** *XS*

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER 10,50,100,500 U & D AW-BD
 PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AX	:	WS TOO LOW	:		USED WSMIN = WSC
AY	:	WS TOO LOW	:		USED WSMIN = WSC
AY	:	WS NOT FOUND BETWEEN	:		USED WSMIN = WSC
			:	WS = 2826.49 & WS = 2833.40	USED DEL = 0.25
AY	:	WS NOT FOUND	:		ASSUMED WS = WSC
AZ	:	WS TOO LOW	:		USED WSMIN = WSC
AZ	:	KU/KD < 0.7 OR > 1.4	:		ALERTED USER
COMP1	:	WS NOT FOUND BETWEEN	:		USED DEL = 0.25
			:	WS = 2840.49 & WS = 2849.70	
COMP1	:	WS NOT FOUND BETWEEN	:		USED WSMIN = WSC
			:	WS = 2840.49 & WS = 2849.70	
COMP1	:	WS NOT FOUND	:		ASSUMED WS = WSC
RA	:	KU/KD < 0.7 OR > 1.4	:		ALERTED USER
RB	:	WS TOO LOW	:		USED WSMIN = WSC
BB	:	WS NOT FOUND BETWEEN	:		USED DEL = 0.25
			:	WS = 2852.55 & WS = 2858.30	
BB	:	WS NOT FOUND	:		ASSUMED WS = WSC
RD-TW	:	WS TOO LOW	:		USED WSMIN = WSC
RD-TW	:	WS NOT FOUND BETWEEN	:		USED DEL = 0.25
			:	WS = 2860.90 & WS = 2867.80	
RD-TW	:	WS NOT FOUND	:		ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER 10 (50) 100,500 (U) A. D. AW-BU
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *TD*
=====
AW AT 46900 / 0 / 2260. / 493. / 23876. / 1.09 / 14. / 356.
2801.70 / 0.36 / / 2802.06 / 4.59 / 0.62 / *IS*
-----
AX AT 47520 / 620 / 2260. / 426. / 19125. / 1.47 / 18. / 340.
2808.49 / 0.65 / 6.94 / 0.14 / 2809.13 / 5.31 / 0.70 / -0.001 *XS*
-----
AY AT 48680 / 1160 / 1730. / 249. / 14806. / 1.23 / 8. / 127.
2826.49 / 0.93 /***** /***** / 2827.42 / 6.95 / 0.73 /***** *XS*
-----
AZ AT 49495 / 815 / 1280. / 266. / 9055. / 1.28 / 107. / 342.
2840.74 / 0.46 / 13.77 / 0.0 / 2841.20 / 4.82 / 0.74 / 0.013 *XS*
-----
COMP1 AT 49522 / 27 / 1280. / 209. / 10163. / 1.07 / 169. / 342.
2842.81 / 0.62 /***** /***** / 2843.43 / 6.12 / 0.95 /***** *XS*
-----
BA AT 49562 / 40 / 1280. / 329. / 15491. / 1.62 / 73. / 313.
2843.46 / 0.38 / 0.42 / 0.0 / 2843.84 / 3.89 / 0.50 / -0.010 *XS*
-----
BB AT 50060 / 498 / 1280. / 245. / 9840. / 1.24 / 31. / 218.
2852.55 / 0.53 /***** /***** / 2853.07 / 5.22 / 0.73 /***** *XS*
-----
COMP2 AT 50070 / 10 / 1280. / 251. / 11446. / 1.04 / -107. / 83.
2852.80 / 0.42 / 0.15 / 0.0 / 2853.22 / 5.11 / 0.77 / 0.002 *XS*
-----
BC AT 50109 / 39 / 1280. / 246. / 10800. / 1.50 / 53. / 269.
2853.20 / 0.63 / 0.52 / 0.10 / 2853.84 / 5.20 / 0.77 / -0.005 *XS*
-----
BD-TW AT 50498 / 389 / 1280. / 233. / 10386. / 1.27 / 35. / 197.
2860.90 / 0.59 /***** /***** / 2861.49 / 5.49 / 0.69 /***** *XS*
=====
    
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 20. DATE= 2/ 8/78

COMPUTED WSC VALUES FOR: COVE CREEK UPPER 10,50,100,500 U & D AW-BD
PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SFCID	AX	AY	AZ	COMP1	BB	RD-TW
WSC	2806.12	2826.49	2840.70	2842.81	2852.55	2860.90

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER 10.50, 100.500 U.S.D. AW-RD
 PROFILE NUMBER 4. DOWNSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
RD-TW	WS TOO LOW		ASSUMED WS = WSC
BC	SUPERCITICAL WS		COMPUTED WSA
COMP2	WS NOT FOUND BETWEEN	WS = 2852.63 & WS = 2847.90	USED DEL = 0.25
COMP2	WS NOT FOUND BETWEEN	WS = 2852.63 & WS = 2847.90	USED KE = 0.5
COMP2	WS NOT FOUND		ASSUMED WS = WSC
RR	WS NOT FOUND BETWEEN	WS = 2852.55 & WS = 2847.80	USED DEL = 0.25
RB	WS NOT FOUND BETWEEN	WS = 2852.55 & WS = 2847.80	USED KE = 0.5
BB	WS NOT FOUND		ASSUMED WS = WSC
BA	SUPERCITICAL WS		COMPUTED WSA
COMP1	WS NOT FOUND BETWEEN	WS = 2842.81 & WS = 2837.60	USED DEL = 0.25
COMP1	WS NOT FOUND BETWEEN	WS = 2842.81 & WS = 2837.60	USED KE = 0.5
COMP1	WS NOT FOUND		ASSUMED WS = WSC
AZ	KU/KD < 0.7 OR > 1.4		ALERTED USER
AZ	SUPERCITICAL WS		COMPUTED WSA
AY	WS NOT FOUND BETWEEN	WS = 2826.49 & WS = 2819.70	USED DEL = 0.25
AY	WS NOT FOUND BETWEEN	WS = 2826.49 & WS = 2819.70	USED KE = 0.5
AY	WS NOT FOUND		ASSUMED WS = WSC
AX	WS NOT FOUND BETWEEN	WS = 2808.12 & WS = 2803.20	USED DEL = 0.25
AX	WS NOT FOUND BETWEEN	WS = 2808.12 & WS = 2803.20	USED KE = 0.5
AX	WS NOT FOUND		ASSUMED WS = WSC
AW	WS NOT FOUND BETWEEN	WS = 2801.42 & WS = 2797.70	USED DEL = 0.25
AW	WS NOT FOUND BETWEEN	WS = 2801.42 & WS = 2797.70	

AW : WS NOT FOUND

USED KE = 0.5

ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER 10 (50) 100.500 U & (D) AW-BD
 PAGE 1 OF 1, PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECTION	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	REW	ID
BD-TW	AT 50498	2860.90	0.59	0	1280.	233.	10386.	1.27	35.	197.	*IS*
						2861.49	5.49	0.91			
HC	AT 50109	2852.92	1.06	-389	1280.	198.	8186.	1.63	60.	268.	*XS*
						2853.98	6.48	1.33	0.014		
COMP2	AT 50070	2852.63	0.56	-39	1280.	220.	9533.	1.06	-104.	77.	*XS*
						2853.19	5.81	0.96			
BB	AT 50060	2852.55	0.53	-10	1280.	245.	9840.	1.24	31.	218.	*XS*
						2853.07	5.22	0.89			
BA	AT 49562	2842.92	1.12	-498	1280.	209.	9173.	1.90	84.	313.	*XS*
						2844.03	6.14	1.45	-0.002		
COMP1	AT 49522	2842.81	0.62	-40	1280.	209.	10163.	1.07	169.	342.	*XS*
						2843.43	6.12	0.95			
AZ	AT 49495	2840.21	2.15	-27	1280.	146.	4041.	1.80	113.	341.	*XS*
						2842.36	8.77	2.53	-0.001		
AY	AT 48680	2826.49	0.93	-815	1730.	249.	14806.	1.23	8.	127.	*XS*
						2827.42	6.95	0.94			
AX	AT 47520	2808.12	0.96	-1160	2260.	325.	15502.	1.28	19.	336.	*XS*
						2809.08	6.94	1.12			
AW	AT 46900	2801.42	0.55	-620	2260.	407.	17468.	1.16	15.	317.	*XS*
						2801.98	5.55	0.91			

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 23. DATE= 2/ 8/78

COMPUTED WSC VALUES FOR: COVE CREEK UPPER 10,50,100,500 U & D AW-BD
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AW	AX	AY	AZ	COMP1	BA	BB	COMP2
WSC	2801.42	2808.12	2826.49	2840.70	2842.81	2843.30	2852.55	2852.63

SECID	BC	HD-TV
WSC	2853.25	2860.90

COMPUTED WSA VALUES FOR: COVE CREEK UPPER 10,50,100,500 U & D AW-BD
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AZ	BA	COMP2	BC
WSA	2842.29	2843.84	2852.25	2853.69

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER 10,50,100,500 U R D AW-8D
 PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AX	: WS TOO LOW	:	USED WSMIN = WSC
AX	: WS NOT FOUND BETWEEN	:	
		: WS = 2808.76 & WS = 2816.00;	USED DEL = 0.25
AX	: WS NOT FOUND	:	ASSUMED WS = WSC
AY	: WS TOO LOW	:	USED WSMIN = WSC
AY	: WS NOT FOUND BETWEEN	:	
		: WS = 2826.83 & WS = 2833.40;	USED DEL = 0.25
AY	: WS NOT FOUND	:	ASSUMED WS = WSC
AZ	: WS TOO LOW	:	USED WSMIN = WSC
AZ	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
COMP1	: WS NOT FOUND BETWEEN	:	
		: WS = 2840.65 & WS = 2849.70;	USED DEL = 0.25
COMP1	: WS NOT FOUND BETWEEN	:	
		: WS = 2840.65 & WS = 2849.70;	USED WSMIN = WSC
COMP1	: WS NOT FOUND	:	ASSUMED WS = WSC
BA	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
BB	: WS TOO LOW	:	USED WSMIN = WSC
BB	: WS NOT FOUND BETWEEN	:	
		: WS = 2852.70 & WS = 2858.30;	USED DEL = 0.25
BB	: WS NOT FOUND	:	ASSUMED WS = WSC
RD-TW	: WS TOO LOW	:	USED WSMIN = WSC
RD-TW	: WS NOT FOUND BETWEEN	:	
		: WS = 2861.11 & WS = 2867.80;	USED DEL = 0.25
RD-TW	: WS NOT FOUND	:	ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER 10.50 (100) 500 (11) S D AW-RD
 PAGE 1 OF 1, PROFILE NUMBER 5. UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE / WS ELEV	LENGTH / HV	DISCHARGE / HF	AREA / HE	CONVEYANCE / EG	ALPHA / V	LEW / FN	REW / ACC	*ID*
A*	AT	46900 / 2801.99	0 / 0.40	2740. /	558. / 2802.29	29109. / 4.91	1.08 / 0.64	14. /	360. /	*IS*
AX	AT	47520 / 2808.76	620 / 0.56	2740. / *****	512. / *****	25559. / 2809.32	1.27 / 5.35	17. / 0.69	343. / *****	*XS*
AY	AT	48680 / 2826.83	1160 / 0.98	2110. / *****	290. / *****	18118. / 2827.80	1.18 / 7.28	8. / 0.73	135. / *****	*XS*
AZ	AT	49495 / 2840.90	815 / 0.50	1570. / 13.59	302. / 0.0	11209. / 2841.39	1.19 / 5.19	106. / 0.77	342. / 0.004	*XS*
COMP1	AT	49522 / 2843.01	27 / 0.69	1570. / *****	241. / *****	12198. / 2843.70	1.05 / 6.50	164. / 0.99	342. / *****	*XS*
BA	AT	49562 / 2843.76	40 / 0.32	1570. / 0.38	402. / 0.0	21222. / 2844.08	1.35 / 3.90	68. / 0.09	314. / 0.000	*XS*
BB	AT	50060 / 2852.70	498 / 0.61	1570. / *****	274. / *****	11637. / 2853.30	1.18 / 5.74	30. / 0.79	220. / *****	*XS*
COMP2	AT	50070 / 2852.95	10 / 0.51	1570. / 0.16	279. / 0.0	13375. / 2853.45	1.03 / 5.62	-109. / 0.82	88. / -0.008	*XS*
BC	AT	50109 / 2853.41	39 / 0.67	1570. / 0.55	284. / 0.08	13134. / 2854.08	1.41 / 5.53	49. / 0.79	269. / -0.003	*XS*
RD-TW	AT	50498 / 2861.11	389 / 0.64	1570. / *****	267. / *****	12553. / 2861.75	1.19 / 5.88	32. / 0.71	198. / *****	*XS*

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER 10,50,100,500 U & D AW-RD
 PROFILE NUMBER 6 DOWNSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

BD-TW: WS TOO LOW	:	ASSUMED WS = WSC
BC : SUPERCRITICAL WS	:	COMPUTED WSA
COMP2: WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 2852.80 & WS = 2847.90:	
COMP2: WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 2852.80 & WS = 2847.90:	
COMP2: WS NOT FOUND	:	ASSUMED WS = WSC
BB : WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 2852.70 & WS = 2847.80:	
BB : WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 2852.70 & WS = 2847.80:	
BB : WS NOT FOUND	:	ASSUMED WS = WSC
BA : SUPERCRITICAL WS	:	COMPUTED WSA
COMP1: WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 2843.01 & WS = 2837.60:	
COMP1: WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 2843.01 & WS = 2837.60:	
COMP1: WS NOT FOUND	:	ASSUMED WS = WSC
AZ : KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AZ : SUPERCRITICAL WS	:	COMPUTED WSA
AY : WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 2826.83 & WS = 2819.70:	
AY : WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 2826.83 & WS = 2819.70:	
AY : WS NOT FOUND	:	ASSUMED WS = WSC
AX : SUPERCRITICAL WS	:	COMPUTED WSA
AW : WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 2801.58 & WS = 2797.70:	
AW : WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 2801.58 & WS = 2797.70:	
AW : WS NOT FOUND	:	ASSUMED WS = WSC

WATER SURFACE PROFILE FOR: COVE CREEK UPPER 10,500 500 U & D AW-BD
 PAGE 1 OF 1, PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECTION	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	REW	ID
RD-TW	50498	2861.11	0.64	0	1570.	267.	12553.	1.19	32.	198.	*IS*
BC	50109	2853.14	1.07	7.53	1570.	234.	10139.	1.54	55.	268.	*XS*
COMP2	50070	2852.80	0.63	*****	1570.	252.	11558.	1.04	-107.	83.	*XS*
BB	50060	2852.70	0.61	*****	1570.	274.	11637.	1.18	30.	220.	*XS*
BA	49562	2843.16	1.03	9.10	1570.	261.	11596.	1.82	79.	313.	*XS*
COMP1	49522	2843.01	0.69	*****	1570.	241.	12188.	1.05	164.	342.	*XS*
AZ	49495	2840.30	2.25	1.14	1570.	167.	4786.	1.65	110.	341.	*XS*
AY	48680	2826.83	0.98	*****	2110.	290.	18118.	1.18	8.	135.	*XS*
AX	47520	2808.55	0.84	18.41	2740.	445.	20448.	1.42	18.	341.	*XS*
AW	46900	2801.58	0.62	*****	2740.	455.	21015.	1.11	14.	318.	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 29,DATE= 2/ 8/78

COMPUTED WSC VALUES FOR: COVE CREEK UPPER 10,50,100,500 U & D AW-RD
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	AW	AX	AY	AZ	COMP1	BA	BB	COMP2
WSC	2801.58	2808.76	2826.83	2840.89	2843.01	2843.54	2852.70	2852.80

SECID	BC	RD-TW
WSC	2853.46	2861.11

COMPUTED WSA VALUES FOR: COVE CREEK UPPER 10,50,100,500 U & D AW-RD
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	AX	AZ	BA	COMP2	BC
WSA	2809.01	2842.48	2843.97	2852.25	2853.88

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER 10,50,100,500 U & D AW-8D
 PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AX	: WS TOO LOW	:		USED WSMIN = WSC
AX	: WS NOT FOUND BETWEEN	:		
		:	WS = 2809.09 & WS = 2816.00:	
		:		USED DEL = 0.25
AX	: WS NOT FOUND	:		ASSUMED WS = WSC
AY	: WS TOO LOW	:		USED WSMIN = WSC
AY	: WS NOT FOUND BETWEEN	:		
		:	WS = 2827.54 & WS = 2833.40:	
		:		USED DEL = 0.25
AY	: WS NOT FOUND	:		ASSUMED WS = WSC
AZ	: WS TOO LOW	:		USED WSMIN = WSC
AZ	: KU/KD < 0.7 OR > 1.4	:		ALERTED USER
COMP1	: WS NOT FOUND BETWEEN	:		
		:	WS = 2840.98 & WS = 2849.70:	
		:		USED DEL = 0.25
COMP1	: WS NOT FOUND BETWEEN	:		
		:	WS = 2840.98 & WS = 2849.70:	
		:		USED WSMIN = WSC
COMP1	: WS NOT FOUND	:		ASSUMED WS = WSC
BA	: KU/KD < 0.7 OR > 1.4	:		ALERTED USER
BB	: WS TOO LOW	:		USED WSMIN = WSC
BB	: WS NOT FOUND BETWEEN	:		
		:	WS = 2853.09 & WS = 2858.30:	
		:		USED DEL = 0.25
BB	: WS NOT FOUND	:		ASSUMED WS = WSC
RD-TW	: WS TOO LOW	:		USED WSMIN = WSC
RD-TW	: WS NOT FOUND BETWEEN	:		
		:	WS = 2851.52 & WS = 2867.80:	
		:		USED DEL = 0.25
RD-TW	: WS NOT FOUND	:		ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER 10.50-100 (500) (U) & D AW-8D
 PAGE 1 OF 1, PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
		HV /	HF /	HE /	EG /	V /	FN /	ACC
								ID
AW	AT	46900 /	0 /	4040. /	705. /	42827. /	1.06 /	13. / 368.
		2802.31 /	0.54 /		2802.85 /	5.73 /	0.70 /	*IS*
AX	AT	47520 /	620 /	4040. /	621. /	35769. /	1.11 /	16. / 347.
		2809.09 /	0.73 /	***** /	***** /	2809.82 /	6.51 /	0.82 / ***** *XS*
AY	AT	48680 /	1160 /	3150. /	387. /	27688. /	1.07 /	7. / 151.
		2827.54 /	1.10 /	***** /	***** /	2828.64 /	8.14 /	0.73 / ***** *XS*
AZ	AT	49495 /	815 /	2380. /	382. /	17000. /	1.07 /	104. / 343.
		2841.23 /	0.64 /	13.24 /	0.0 /	2841.88 /	2.22 /	0.86 / -0.001 *XS*
COMP1	AT	49522 /	27 /	2380. /	340. /	18988. /	1.03 /	149. / 381.
		2843.53 /	0.78 /	***** /	***** /	2844.31 /	7.00 /	1.00 / ***** *XS*
BA	AT	49562 /	40 /	2380. /	542. /	35644. /	1.11 /	57. / 350.
		2844.31 /	0.33 /	0.33 /	0.0 /	2844.65 /	4.39 /	0.53 / -0.001 *XS*
BB	AT	50060 /	498 /	2380. /	351. /	17479. /	1.09 /	27. / 259.
		2853.09 /	0.78 /	***** /	***** /	2853.87 /	6.77 /	0.90 / ***** *XS*
COMP2	AT	50070 /	10 /	2380. /	362. /	19453. /	1.02 /	-112. / 123.
		2853.34 /	0.69 /	0.17 /	0.0 /	2854.03 /	6.58 /	0.89 / -0.008 *XS*
BC	AT	50109 /	39 /	2380. /	381. /	19938. /	1.24 /	39. / 270.
		2853.89 /	0.75 /	0.57 /	0.03 /	2854.64 /	6.25 /	0.76 / 0.007 *XS*
BD-TW	AT	50498 /	389 /	2380. /	337. /	18210. /	1.07 /	27. / 250.
		2861.52 /	0.83 /	***** /	***** /	2862.35 /	7.06 /	0.75 / ***** *XS*

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER 10,50,100,500 U & D AW-RD
 PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

RD-TW; WS TOO LOW	:	ASSUMED WS = WSC
8C : SUPERCRITICAL WS	:	COMPUTED WSA
COMP2; WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 2853.23 & WS = 2847.90;	
COMP2; WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 2853.23 & WS = 2847.90;	
COMP2; WS NOT FOUND	:	ASSUMED WS = WSC
89 : WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 2853.09 & WS = 2847.80;	
8B : WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 2853.09 & WS = 2847.80;	
8R : WS NOT FOUND	:	ASSUMED WS = WSC
8A : SUPERCRITICAL WS	:	COMPUTED WSA
COMP1; WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 2843.53 & WS = 2837.60;	
COMP1; WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 2843.53 & WS = 2837.60;	
COMP1; WS NOT FOUND	:	ASSUMED WS = WSC
A7 : KU/KD < 0.7 OR > 1.4	:	ALERTED USER
A7 : SUPERCRITICAL WS	:	COMPUTED WSA
AY : WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 2827.54 & WS = 2819.70;	
AY : WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 2827.54 & WS = 2819.70;	
AY : WS NOT FOUND	:	ASSUMED WS = WSC
AX : SUPERCRITICAL WS	:	COMPUTED WSA
AW : WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	: WS = 2801.95 & WS = 2797.70;	
AW : WS NOT FOUND BETWEEN	:	USED KE = 0.5
	: WS = 2801.95 & WS = 2797.70;	
AW : WS NOT FOUND	:	ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER 10,50,100 (500) U & (D) AW-RD
 PAGE 1 OF 1, PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	AT	WS ELEV	DISCHARGE	LENGTH	AREA	CONVEYANCE	ALPHA	LEW	REW	FN	ACC	ID
		/	/	/	/	/	/	/	/	/	/	*
BD-TW	AT	50498	0	2380	337	18210	1.07	27	250			*IS*
		2861.52	0.83		2862.35	7.06	0.92					
BC	AT	50109	-389	2380	325	15873	1.32	44	269			*XS*
		2853.62	1.11	7.62	0.0	2354.72	7.33	1.17	0.002			
COMP2	AT	50070	-39	2380	336	17510	1.02	-111	122			*XS*
		2853.23	0.80	*****	*****	2854.02	7.07	1.00	*****			
BB	AT	50060	-10	2380	351	17479	1.09	27	259			*XS*
		2853.09	0.78	*****	*****	2853.87	6.77	0.94	*****			
BA	AT	49562	-498	2380	356	17458	1.50	71	313			*XS*
		2843.57	1.05	9.24	0.0	2844.62	6.69	1.19	0.010			
COMP1	AT	49522	-40	2380	340	18988	1.03	149	381			*XS*
		2843.53	0.78	*****	*****	2844.31	7.00	1.00	*****			
AZ	AT	49495	-27	2380	217	6854	1.40	108	342			*XS*
		2840.53	2.61	1.18	0.0	2843.14	10.96	2.32	0.002			
AY	AT	48680	-815	3150	387	27688	1.07	7	151			*XS*
		2827.54	1.10	*****	*****	2828.64	8.14	0.91	*****			
AX	AT	47520	-1160	4040	550	28858	1.20	17	344			*XS*
		2808.87	1.00	18.76	0.0	2809.88	7.34	1.09	-0.001			
AW	AT	46900	-620	4040	581	31037	1.07	14	361			*XS*
		2801.95	0.81	*****	*****	2802.76	6.96	0.98	*****			

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

1	1	COVE CREEK UPPER 10.50,100.500	AW-8D	13	4	02	05	10					
2	2	280123 280170 280189 280231											
3	1030	AX 1 20 3 2799 46900 99 99											
4	1040	1310 2260 2740 4040											
5	1051	0 1 28105 15 1 28012 61 1 27996 100 1 28003 150 1 28002											
5	1052	200 1 27995 250 1 28013 272 2 28011 277 2 27988 277 2 27986											
5	1053	279 2 27975 285 2 27976 290 2 27981 294 2 27986 295 2 27987											
5	1054	311 2 27999 318 3 28017 354 3 28016 382 3 28030 395 3 28110											
6	1060	1 2 045 040 1 2 055 045 1 2 045 040											
3	2030	AX 0 19 3 2805 47520 99 99											
5	2051	0 1 28160 25 1 28055 50 1 28057 100 1 28073 150 1 28081											
5	2052	200 1 28084 250 1 28083 283 2 28073 290 2 28036 294 2 28030											
5	2053	298 2 28030 305 2 28032 306 2 28036 310 3 28058 350 3 28094											
5	2054	402 3 28112 419 3 28118 431 3 28133 447 3 28159											
6	2060	1 2 045 035 1 2 055 055 1 2 045 035											
3	3030	AY 1 20 2 2822 48680 99 99											
4	3040	990 1730 2110 3150											
5	3051	0 1 28334 9 1 28259 19 1 28236 27 1 28218 28 1 28209											
5	3052	32 1 28202 34 1 28199 38 1 28195 43 1 28210 44 2 28244											
5	3053	109 2 28258 150 2 28274 165 2 28288 167 2 28286 186 2 28291											
5	3054	225 2 28288 237 2 28284 245 2 28300 250 2 28317 253 2 28333											
6	3060	1 2 060 050 1 2 045 035											
3	4030	AZ 1 34 3 2839 49507 99 99											
4	4040	730 1280 1570 2380											
5	4051	0 1 28495 15 1 28479 64 1 28441 100 1 28418 110 1 28403											
5	4052	120 1 28400 137 1 28401 178 1 28392 200 1 28391 228 1 28397											
5	4053	246 1 28397 272 1 28402 286 1 28399 300 1 28398 303 1 28400											
5	4054	305 1 28390 307 1 28407 315 1 28407 318 1 28400 322 1 28398											
5	4055	325 2 28388 325 2 28373 326 2 28367 328 2 28365 330 2 28368											
5	4056	333 2 28367 336 2 28372 337 2 28383 341 3 28403 347 3 28427											
5	4057	355 3 28435 373 3 28431 375 3 28427 382 3 28497											
6	4060	1 2 050 040 1 2 055 055 1 2 070 055											
3	5030	BRIDS 2 10 1 2840 49507 0 28418 1 0											
5	5051	0 1 28416 0 1 28382 1 1 28380 2 1 28375 0.6 1 28374											
5	5052	10 1 28375 14 1 28380 16 1 28388 16 1 28421 0 -9 28416											
6	5060	1 2 050 050											
3	5330	PIERS 3 4 2											
5	5350	1 28380 2 28383 2 28416 1 28421											
3	5430	ROAD 4 8 <u>3</u> ⁴ 30 1 3 1 1 1 2 2											
5	5451	0 1 28497 100 1 28453 200 1 28417 244 1 28409 328 2 28433											
5	5452	344 3 28438 380 4 28431 390 4 28480											
3	6030	RA 5 25 5 2841 49567 2 4											
5	6051	0 1 28515 50 1 28447 84 1 28429 100 1 28430 120 1 28434											
5	6052	122 1 28418 126 1 28429 140 1 28429 200 1 28424 236 1 28415											
5	6053	280 1 28416 290 2 28416 293 3 28399 295 3 28387 297 3 28383											

ERROR(S)

Value assumed
OK

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
5 6054	301	3 28383	305	3 28382	307	3 28387	309	4 28402
5 6055	322	5 28451	340	5 28454	349	5 28439	355	5 28461
6 6060	1 2 045 035	1 2 050 050	1 2 050 050	1 2 050 050	1 2 050 050	1 2 050 050	1 2 040 040	
3 7030	RR	0 21 3 2850	50070	99 99				
5 7051	0	1 28583	4	1 28565	35	1 28520	68	1 28510
5 7052	137	2 28517	142	2 28510	144	2 28491	145	2 28482
5 7053	150	2 28476	153	2 28479	155	2 28481	158	2 28505
5 7054	180	3 28515	215	3 28524	234	3 28535	255	3 28537
5 7055	268	3 28582						
6 7060	1 2 050 040	1 2 055 055	1 2 045 035					
3 8030	HRIDG	2 9 1 2849	50070	0 28506	1 0			
5 8051	0	1 28505	0	1 28479	5	1 28479	8	1 28477
5 8052	9	1 28480	10	1 28480	10	1 28506	0	-9 28505
6 8060	1 2 050 050							
3 8430	ROAD	4 20 2 15	1 2	1 1				2
5 8451	-145	1 28590	-110	1 28530	-77	1 28510	-45	1 28511
5 8452	0	1 28513	0	1 28505	0	1 28479	5	2 28479
5 8453	9	2 28475	9	2 28480	10	2 28480	10	2 28506
5 8454	50	2 28518	119	2 28536	119	2 28536	122	2 28530
3 9030	RC	5 21 3 285	50109	2 4				
5 9051	0	1 28592	40	1 28538	80	1 28520	100	1 28519
5 9052	143	2 28508	146	3 28498	147	3 28491	148	3 28487
5 9053	153	3 28488	155	3 28491	156	4 28495	162	5 28519
5 9054	200	5 28521	242	5 28538	251	5 28542	262	5 28538
5 9055	280	5 28593						
6 9060	1 2 050 040	1 2 050 050	1 2 050 050	1 2 050 050	1 2 050 050	1 2 050 050	1 2 045 035	
3 10030	RD-TW	0 21 3 2858	50498	99 99				
5 10051	0	1 28678	20	1 28621	47	1 28599	100	1 28604
5 10052	160	2 28598	172	2 28575	179	2 28569	180	2 28564
5 10053	184	2 28558	187	2 28556	189	2 28563	190	2 28570
5 10054	200	3 28622	216	3 28632	228	3 28630	249	3 28616
5 10055	256	3 28674						
6 10060	1 2 045 035	1 2 055 055	1 2 045 035					

ERROR(S)

Value assumed
OK

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 3,DATE= 2/ 2/78

PAGE 1 OF EDITING NOTES FOR: COVE CREEK UPPER 10,50,100,500

AW-BD

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BRIDG	WARNING	STATION	10	IS LESS THAN	STATION	9	
ROAD	WARNING	NSEG		> MAX. VALUE OF	SEG	4	✓
BRIDG	WARNING	STATION	9	IS LESS THAN	STATION	8	
BC	WARNING	NSA		WRONG		5	✓

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 4 DATE= 2/ 2/78

INPUT SUMMARY FOR: COVE CREEK UPPER 10,50,100,500 AW-RD

13 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 13 TYPE 3 CARDS

KEPT 13 CROSS SECTIONS FOR EDITING

13 " " VALID FOR PROPERTY COMPUTATIONS

13 " " " " PROFILE "

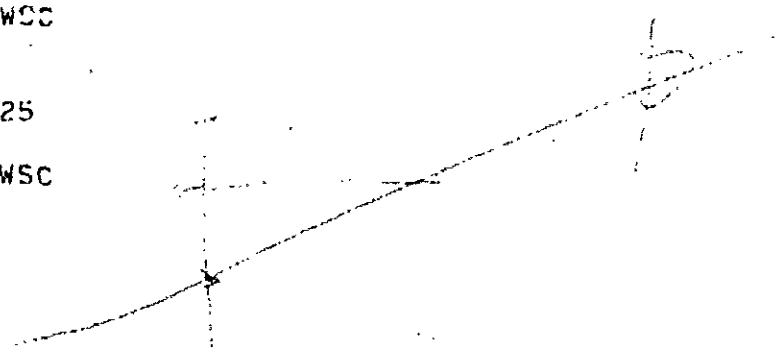
PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER 10,50,100,500
 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

AW-BD

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AX	; WS TOO LOW			USED WSMIN = WSC
AY	; WS TOO LOW			USED WSMIN = WSC
AZ	; WS TOO LOW			USED WSMIN = WSC
AZ	; WS NOT FOUND BETWEEN			USED WSMIN = WSC
		; WS = 2840.41 & WS = 2849.70;		USED DEL = 0.25
AZ	; WS NOT FOUND			ASSUMED WS = WSC
BA	; WS NOT FOUND BETWEEN			USED DEL = 0.25
		; WS = 2840.16 & WS = 2851.50;		
BA	; WS NOT FOUND BETWEEN			USED WSMIN = WSC
		; WS = 2840.16 & WS = 2851.50;		
BA	; WS NOT FOUND			ASSUMED WS = WSC
BA	; J EXCEEDS RANGE			USED J LIMIT
BA	; WSU > BELMX (1)			CHECKED QBO (2)
BA	; MIN QBO > QT (2)			ASSUMED QBO (1)
BB	; WS TOO LOW			USED WSMIN = WSC
BB	; WS NOT FOUND BETWEEN			USED DEL = 0.25
		; WS = 2852.13 & WS = 2858.30;		
BB	; WS NOT FOUND			ASSUMED WS = WSC
BC	; FRDN FAILURE			USED HIGHER WS
		; WS = 2852.00 & FR = 1.66;		
BC	; ORD > QT			ASSUMED WSU = HIN
BD-TW	; WS TOO LOW			USED WSMIN = WSC
BD-TW	; WS NOT FOUND BETWEEN			USED DEL = 0.25
		; WS = 2860.29 & WS = 2867.80;		
BD-TW	; WS NOT FOUND			ASSUMED WS = WSC

Eliminate PIER section.
 - apparently included in BRIDG
 X-sect.



WATER-SURFACE PROFILE FOR: COVE CREEK UPPER 10,50,100,500 AW-BD
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AW AT 46900 / 0 / 1310. / 349. / 13894. / 1.22 / 15. / 316.
2801.23 / 0.27 / / 2801.50 / 3.75 / 0.55/ *IS*
-----
AX AT 47520 / 620 / 1310. / 251. / 11566. / 1.28 / 20. / 331.
2807.73 / 0.54 / 6.62 / 0.14 / 2808.27 / 5.22 / 0.65 / 0.013 *XS*
-----
AY AT 48680 / 1160 / 990. / 131. / 7431. / 1.18 / 12. / 87.
2825.32 / 1.05 / 17.85 / 0.25 / 2826.37 / 7.55 / 0.80 / -0.001 *XS*
-----
AZ AT 49507 / 827 / 730. / 192. / 5751. / 1.51 / 109. / 341.
2840.41 / 0.34 /***** /***** / 2840.75 / 3.81 / 0.63 /***** *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDGE AT 49507 / / 130. / 43. / 2154. / 1.00 / 0. / 16.
2840.41 / 0.14 / ...1... (0.069) / 2.99 / 0.32 / *BO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 608. / RIGHT 0. / *RG*
-----
BA AT 49562 / 55 / 730. / 152. / 6937. / 1.74 / 121. / 312.
2842.56 / 0.63 /***** /***** / 2843.19 / 4.82 / 0.67 /***** *AS*
M = 0.0 / E = 0.0 / K* = 0.13 / 177. / 7998. / 1.79 / 121. / 312.
2842.73 / 0.47 / / 2843.21 / 4.13 / 0.58 / *AS*
===== END BRIDGE ANALYSIS =====
BB AT 50070 / 508 / 730. / 170. / 5944. / 1.44 / 34. / 204.
2852.13 / 0.41 /***** /***** / 2852.54 / 4.29 / 0.66 /***** *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDGE AT 50070 / / 0. / 27. / 831. / 1.00 / 0. / 10.
2850.60 / 0.0 / ...3... (-.001) / 0.0 / 0.0 / *BO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 744. / RIGHT 373. / *RG*
-----
BC AT 50109 / 39 / 730. / 146. / 5731. / 1.79 / 67. / 267.
2852.59 / 0.70 / 0.61 / 0.14 / 2853.28 / 5.00 / 0.81 / -0.008 *AS*
M = **** / E = **** / K* = **** / 146. / 5731. / 1.79 / 67. / 267.
2852.59 / 0.70 / / 2853.28 / 5.00 / 0.81 / *AS*
===== END BRIDGE ANALYSIS =====
HD-TW AT 50498 / 389 / 730. / 137. / 5700. / 1.35 / 42. / 196.
2860.29 / 0.60 /***** /***** / 2860.89 / 5.34 / 0.70 /***** *XS*
=====
    
```

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: COVE CREEK UPPER 10,50,100,500
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

AW-BD

SECID	AX	AY	AZ	BA	BB	BD-TW
WSC	2807.30	2825.32	2840.41	2842.56	2852.13	2860.29

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER 10,50,100,500
 PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

AW-8D

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AX	; WS TOO LOW	:		USED WSMIN = WSC
AY	; WS TOO LOW	:		USED WSMIN = WSC
AY	; WS NOT FOUND BETWEEN	:		USED WSMIN = WSC
		:	WS = 2826.49 & WS = 2833.40	
AY	; WS NOT FOUND	:		USED DEL = 0.25
AZ	; WS TOO LOW	:		ASSUMED WS = WSC
AZ	; KU/KD < 0.7 OR > 1.4	:		USED WSMIN = WSC
BA	; WS NOT FOUND BETWEEN	:		ALERTED USER
		:	WS = 2840.50 & WS = 2851.50	
BA	; WS NOT FOUND BETWEEN	:		USED DEL = 0.25
		:	WS = 2840.50 & WS = 2851.50	
BA	; WS NOT FOUND	:		USED WSMIN = WSC
BA	; J EXCEEDS RANGE	:		ASSUMED WS = WSC
BA	; WSU > BELMX (1)	:		USED J LIMIT
BA	; MIN QBO > QT (2)	:		CHECKED QBO (2)
BB	; WS TOO LOW	:		ASSUMED QBO (1)
BB	; WS NOT FOUND BETWEEN	:		USED WSMIN = WSC
		:	WS = 2852.55 & WS = 2858.30	
BB	; WS NOT FOUND	:		USED DEL = 0.25
BC	; FRDN FAILURE	:		ASSUMED WS = WSC
		:	WS = 2852.35 & FR = 1.92	
BC	; QRD > QT	:		USED HIGHER WS
BD-TW	; WS TOO LOW	:		ASSUMED WSU = MIN
BD-TW	; WS NOT FOUND BETWEEN	:		USED WSMIN = WSC
		:	WS = 2860.90 & WS = 2867.80	
BD-TW	; WS NOT FOUND	:		USED DEL = 0.25
		:		ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER 10,50,100,500 AW-RD
 PAGE 1 OF 1. PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT	DIS	LEN	DIS	AREA	CON	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
AW	46900	0	2260.	493.	23876.	1.09	14.	356.	
2801.70	0.36		2802.06	4.59	0.62			*IS*	
AX	47520	620	2260.	426.	19125.	1.47	18.	340.	
2808.49	0.65	6.94	2809.13	5.31	0.70		-0.001	*XS*	
AY	48680	1160	1730.	249.	14806.	1.23	8.	127.	
2826.49	0.93	*****	2827.42	6.95	0.73		*****	*XS*	
AZ	49507	827	1280.	268.	9184.	1.28	107.	342.	
2840.75	0.45	13.78	2841.20	4.77	0.73		0.006	*XS*	
===== BEGIN BRIDGE ANALYSIS =====									
BRIDG AT	49507		107.	49.	2564.	1.00	0.	16.	
2840.75	0.07	...	2841.20	2.19	0.22			*B0*	
===== END BRIDGE ANALYSIS =====									
EMBANKMENT OVERFLOW (CFS) / LEFT 1146. / RIGHT 13. / *RG*									
BA	49562	55	1280.	291.	13203.	1.75	76.	313.	
2843.30	0.52	*****	2843.82	4.39	0.56		*****	*AS*	
M = 0.0 / E = 0.0 / K* = 0.13 / 321. / 14950. / 1.65 / 74. / 313.									
2843.43	0.41		2843.83	3.99	0.51			*AS*	
===== END BRIDGE ANALYSIS =====									
BB	50070	508	1280.	245.	9840.	1.24	31.	218.	
2852.55	0.53	*****	2853.07	5.22	0.73		*****	*XS*	
===== BEGIN BRIDGE ANALYSIS =====									
BRIDG AT	50070		0.	27.	831.	1.00	0.	10.	
2850.60	0.0	...	2853.07	0.0	0.0			*B0*	
===== END BRIDGE ANALYSIS =====									
EMBANKMENT OVERFLOW (CFS) / LEFT 1125. / RIGHT 610. / *RG*									
BC	50109	39	1280.	227.	9735.	1.56	56.	268.	
2853.10	0.77	0.67	2853.86	5.63	0.85		0.004	*AS*	
M = **** / E = **** / K* = **** / 227. / 9735. / 1.56 / 56. / 268.									
2853.10	0.77		2853.86	5.63	0.85			*AS*	
===== END BRIDGE ANALYSIS =====									
BD-TW AT	50498	389	1280.	233.	10386.	1.27	35.	197.	
2860.90	0.59	*****	2861.49	5.49	0.69		*****	*XS*	

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 16,DATE= 2/ 2/78

COMPUTED WSC VALUES FOR: COVE CREEK UPPER 10,50,100,500
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS AW-BD

SECID	AX	AY	AZ	BA	BB	BD-TW
WSC	2808.12	2826.49	2840.70	2843.30	2852.55	2860.90

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AX	; WS TOO LOW		USED WSMIN = WSC
AX	; WS NOT FOUND BETWEEN		
		; WS = 2808.76 & WS = 2816.00;	USED DEL = 0.25
AX	; WS NOT FOUND		ASSUMED WS = WSC
AY	; WS TOO LOW		USED WSMIN = WSC
AY	; WS NOT FOUND BETWEEN		
		; WS = 2826.83 & WS = 2833.40;	USED DEL = 0.25
AY	; WS NOT FOUND		ASSUMED WS = WSC
AZ	; WS TOO LOW		USED WSMIN = WSC
AZ	; KU/KD < 0.7 OR > 1.4		ALERTED USER
BA	; WS NOT FOUND BETWEEN		
		; WS = 2840.66 & WS = 2851.50;	USED DEL = 0.25
BA	; WS NOT FOUND BETWEEN		
		; WS = 2840.66 & WS = 2851.50;	USED WSMIN = WSC
BA	; WS NOT FOUND		ASSUMED WS = WSC
BA	; J EXCEEDS RANGE		USED J LIMIT
BA	; WSU > BELMX (1)		CHECKED QBO (2)
BA	; MIN QBO > QT (2)		ASSUMED QBO (1)
BB	; WS TOO LOW		USED WSMIN = WSC
BB	; WS NOT FOUND BETWEEN		
		; WS = 2852.70 & WS = 2858.30;	USED DEL = 0.25
BB	; WS NOT FOUND		ASSUMED WS = WSC
BC	; FRDN FAILURE		
		; WS = 2852.47 & FR = 2.04;	USED HIGHER WS
BC	; QRD > QT		ASSUMED WSU = HIN
BD-TW	; WS TOO LOW		USED WSMIN = WSC
BD-TW	; WS NOT FOUND BETWEEN		
		; WS = 2861.11 & WS = 2867.80;	USED DEL = 0.25
BD-TW	; WS NOT FOUND		ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER 10,50,100,500 AW-80
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LFW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AW AT 46900 / 0 / 2740. / 558. / 29109. / 1.08 / 14. / 360.
2801.89 / 0.40 / / 2802.29 / 4.91 / 0.64 / *IS*
-----
AX AT 47520 / 620 / 2740. / 512. / 25559. / 1.27 / 17. / 343.
2808.76 / 0.56 /***** /***** / 2809.32 / 5.35 / 0.69 /***** *XS*
-----
AY AT 48680 / 1160 / 2110. / 290. / 18118. / 1.18 / 8. / 135.
2826.83 / 0.98 /***** /***** / 2827.80 / 7.28 / 0.73 /***** *XS*
-----
AZ AT 49507 / 827 / 1570. / 305. / 11367. / 1.18 / 106. / 343.
2840.91 / 0.49 / 13.60 / 0.0 / 2841.39 / 5.15 / 0.76 / -0.004 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDG AT 49507 / / 161. / 51. / 2757. / 1.00 / 0. / 16.
2840.91 / 0.15 / ...1... (0.069) / 3.13 / 0.31 / *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 1376. / RIGHT 31. / *RG*
-----
BA AT 49562 / 55 / 1570. / 347. / 16835. / 1.54 / 72. / 313.
2843.54 / 0.49 /***** /***** / 2844.02 / 4.52 / 0.58 /***** *AS*
M = 0.0 / E = 1.00 / K* = 0.13 / 377. / 19123. / 1.43 / 70. / 314.
2843.66 / 0.39 / / 2844.04 / 4.16 / 0.53 / *AS*
===== END BRIDGE ANALYSIS =====
BB AT 50070 / 508 / 1570. / 274. / 11637. / 1.18 / 30. / 220.
2852.70 / 0.61 /***** /***** / 2853.30 / 5.74 / 0.79 /***** *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDG AT 50070 / / 0. / 27. / 831. / 1.00 / 0. / 10.
2850.60 / 0.0 / ...3... (-.001) / 0.0 / 0.0 / *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 1302. / RIGHT 731. / *RG*
-----
BC AT 50109 / 39 / 1570. / 262. / 11733. / 1.46 / 51. / 269.
2853.29 / 0.82 / 0.70 / 0.11 / 2854.11 / 6.00 / 0.88 / -0.004 *AS*
M = **** / E = **** / K* = **** / 262. / 11733. / 1.46 / 51. / 269.
2853.29 / 0.82 / / 2854.11 / 6.00 / 0.88 / *AS*
===== END BRIDGE ANALYSIS =====
RD-TW AT 50498 / 389 / 1570. / 267. / 12553. / 1.19 / 32. / 198.
2861.11 / 0.64 /***** /***** / 2861.75 / 5.88 / 0.71 /***** *XS*
=====
    
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 19, DATE= 2/ 2/78

COMPUTED WSC VALUES FOR: COVE CREEK UPPER 10,50,100,500 AW-BD
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AX	AY	AZ	BA	BB	BD-TW
WSC	2806.76	2826.83	2840.89	2843.54	2852.70	2861.11

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK UPPER 10,50,100,500 AW-BD
 PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AX	; WS TOO LOW		USED WSMIN = WSC
AX	; WS NOT FOUND BETWEEN		
		; WS = 2809.09 & WS = 2816.00;	USED DEL = 0.25
AX	; WS NOT FOUND		ASSUMED WS = WSC
AY	; WS TOO LOW		USED WSMIN = WSC
AY	; WS NOT FOUND BETWEEN		
		; WS = 2827.54 & WS = 2833.40;	USED DEL = 0.25
AY	; WS NOT FOUND		ASSUMED WS = WSC
AZ	; WS TOO LOW		USED WSMIN = WSC
AZ	; KU/KD < 0.7 OR > 1.4		ALERTED USER
BA	; WS NOT FOUND BETWEEN		
		; WS = 2840.99 & WS = 2851.50;	USED DEL = 0.25
BA	; WS NOT FOUND BETWEEN		
		; WS = 2840.99 & WS = 2851.50;	USED WSMIN = WSC
BA	; WS NOT FOUND		ASSUMED WS = WSC
BA	; J EXCEEDS RANGE		USED J LIMIT
BA	; WSU > BELMX (1)		CHECKED QBO (2)
BA	; MIN QBO > QT (2)		ASSUMED QBO (1)
BB	; WS TOO LOW		USED WSMIN = WSC
BB	; WS NOT FOUND BETWEEN		
		; WS = 2853.09 & WS = 2858.30;	USED DEL = 0.25
BB	; WS NOT FOUND		ASSUMED WS = WSC
RC	; QRD > QT		ASSUMED WSU = H1N
BD-TW	; WS TOO LOW		USED WSMIN = WSC
BD-TW	; WS NOT FOUND BETWEEN		
		; WS = 2861.52 & WS = 2867.80;	USED DEL = 0.25
BD-TW	; WS NOT FOUND		ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: COVE CREEK UPPER 10.50,100.500 4W-RD
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
AW  AT  46900 /    0 /  4040. /  705. /  42827. / 1.06 /  13. / 368.
    2802.31 /  0.54 /          / 2802.85 /  5.73 /  0.70 /      *IS*
-----
AX  AT  47520 /  620 /  4040. /  621. /  35769. / 1.11 /  16. / 347.
    2809.09 /  0.73 /***** /***** / 2809.82 /  6.51 /  0.82 /***** *XS*
-----
AY  AT  48680 / 1160 /  3150. /  387. /  27588. / 1.07 /   7. / 151.
    2827.54 /  1.10 /***** /***** / 2828.64 /  8.14 /  0.73 /***** *XS*
-----
AZ  AT  49507 /  827 /  2380. /  385. /  17250. / 1.07 /  104. / 343.
    2841.24 /  0.63 / 13.24 /  0.0 / 2841.88 /  6.18 /  0.85 / -0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDG AT  49507 /          /  300. /  57. /  3192. / 1.00 /   0. / 16.
    2841.24 /  0.44 /          / ...1... (0.069) /  5.29 /  0.50 /      *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT  1972. / RIGHT  102. /      *RG*
-----
BA  AT  49562 /   55 /  2380. /  429. /  23628. / 1.28 /   66. / 314.
    2843.87 /  0.61 /***** /***** / 2844.48 /  5.55 /  0.69 /***** *AS*
-----
M = 0.0 / E = 1.00 / K* = 0.13 /  489. /  29587. / 1.17 /   61. / 350.
    2844.11 /  0.43 /          / 2844.54 /  4.87 /  0.60 /      *AS*
===== END BRIDGE ANALYSIS =====
BB  AT  50070 /  508 /  2380. /  351. /  17479. / 1.09 /   27. / 259.
    2853.09 /  0.78 /***** /***** / 2853.87 /  6.77 /  0.90 /***** *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDG AT  50070 /          /   0. /  27. /  831. / 1.00 /   0. / 10.
    2850.60 /  0.0 /          / ...3... (-.001) /  0.0 /  0.0 /      *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT  1777. / RIGHT  1076. /      *RG*
-----
BC  AT  50109 /   39 /  2380. /  348. /  17510. / 1.29 /   41. / 270.
    2853.73 /  0.94 /  0.72 /  0.08 / 2854.67 /  6.84 /  0.83 / -0.005 *AS*
-----
M = **** / E = **** / K* = **** /  348. /  17510. / 1.29 /   41. / 270.
    2853.73 /  0.94 /          / 2854.67 /  6.84 /  0.83 /      *AS*
===== END BRIDGE ANALYSIS =====
BD-TW AT  50498 /  389 /  2380. /  337. /  18210. / 1.07 /   27. / 250.
    2861.52 /  0.83 /***** /***** / 2862.35 /  7.06 /  0.75 /***** *XS*
=====
    
```

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: COVE CREEK UPPER 10,50,100,500
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

AW-BD

SECID	AX	AY	AZ	BA	BB	BD-TW
WSC	2809.09	2827.54	2841.22	2843.87	2853.09	2861.52

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	COVE CREEK LOWER	WATAUGA CO.	FLOODWAY	HAV	67	1	02 99 10
2	2	264603						
3	1000	H	1	27	3	2634	7690	99 99
4	1001	6390						
5	1005	0	1	26545	11	1	26497	20 1 26460 27 1 26438 27 1 26427
5	1006	95	2	26400	105	2	26393	110 2 26372 116 2 26356 118 2 26336
5	1007	123	2	26332	124	2	26332	130 2 26329 143 2 26333 144 2 26359
5	1008	153	3	26378	162	3	26399	207 3 26414 215 3 26450 219 3 26480
5	1009	220	3	26499	241	3	26499	300 3 26499 350 3 26511 400 3 26522
5	1010	433	3	26517	440	3	26552	
6	1015	1	2	055 045	1	2	050 045	1 2 045 050
3	1100	0	19	2	2639	8710	99 99	
5	1105	0	1	26579	12	1	26507	23 1 26473 25 1 26466 46 1 26440
5	1106	100	1	26452	150	1	26451	200 1 26440 250 2 26427 262 2 26401
5	1107	264	2	26376	270	2	26372	278 2 26373 290 2 26371 295 2 26373
5	1108	296	2	26388	305	2	26429	316 2 26487 324 2 26518
6	1115	1	3	060 045	1	2	055 045	
3	1200	0	29	3	2643	10335	99 99	
5	1205	0	1	26644	23	1	26599	31 1 26595 42 1 26528 57 1 26485
5	1206	100	1	26474	108	1	26448	120 1 26464 139 2 26452 141 2 26442
5	1207	148	2	26432	156	2	26420	165 2 26420 170 2 26441 171 2 26462
5	1208	175	3	26499	200	3	26499	300 3 26510 400 3 26494 500 3 26492
5	1209	555	3	26492	572	3	26538	582 3 26561 606 3 26566 616 3 26550
5	1210	669	3	26568	709	3	26582	726 3 26609 736 3 26544
6	1215	2	4	065 050	1	2	055 050	1 2 045 035
3	1300	0	30	3	2649	11705	99 99	
5	1305	0	1	26692	14	1	26539	22 1 26519 27 1 26495 35 1 26518
5	1306	50	1	26528	100	1	26531	150 1 26539 200 1 26543 250 2 26541
5	1307	290	2	26513	294	2	26495	295 2 26490 299 2 26482 307 2 26479
5	1308	315	2	26483	320	2	26491	321 2 26514 326 3 26532 350 3 26540
5	1309	400	3	26535	450	3	26535	500 3 26534 534 3 26539 553 3 26610
5	1310	573	3	26596	576	3	26584	579 3 26603 580 3 26620 583 3 26692
6	1315	1	2	045 040	1	2	050 045	1 2 045 035
3	1400	0	30	3	2651	12958	99 99	
5	1405	0	1	26728	18	1	26718	48 1 26693 100 1 26656 150 1 26626
5	1406	200	1	26604	250	1	26597	300 1 26595 350 1 26597 400 1 26598
5	1407	450	1	26596	500	1	26600	950 1 26584 600 1 26577 630 2 26578
5	1408	636	2	26533	639	2	26522	644 2 26506 649 2 26503 661 2 26502
5	1409	667	2	26521	669	2	26539	677 3 26579 705 3 26583 722 3 26632
5	1410	746	3	26533	750	3	26625	757 3 26654 800 3 26685 802 3 26741
6	1415	1	2	050 045	2	4	055 045	1 2 065 065
3	1500	0	11	1	2650	12858	0	26569 1 0
5	1505	0	1	26567	0	1	26530	3 1 26530 6 1 26507 12 1 26495
5	1506	16	1	26495	18	1	26488	26 1 26505 33 1 26519 34 1 26578
5	1507	0	-4	26567				

Cove Creek

Subline 4

and the near

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
...	5	0	5	0	5	0	5	0
6	1515	1 2 055 055						
3	1550	PD-LM 4	19 2 16	1 2	2 2		2	
5	1555	0	1 26724 38	1 26703 88	1 26675 140	1 26639 150	1 26633	
5	1556	200	1 26609 250	1 26599 300	1 26595 350	1 26596 400	1 26600	
5	1557	450	1 26606 500	1 26608 550	1 26598 600	1 26587 647	1 26589	
5	1558	665	2 26591 683	2 26593 735	2 26630 757	2 26634		
3	1600	M-APP 5	29 5 2652	12906 2 4				
5	1605	0	1 26721 50	1 26684 100	1 26635 150	1 26603 200	1 26586	
5	1606	250	1 26580 300	1 26596 350	1 26592 400	1 26594 450	1 26602	
5	1607	500	1 26596 550	1 26577 600	1 26572 614	2 26568 618	3 26536	
5	1608	620	3 26520 626	3 26508 634	3 26503 645	3 26504 648	3 26514	
5	1609	652	4 26542 656	5 26569 670	5 26582 680	5 26620 701	5 26634	
5	1610	725	5 26634 729	5 26624 733	5 26666 740	5 26758		
6	1615	1 2 045 035	2 4 055 045	2 4 055 045	2 4 055 045	1 2 070 050		
3	1700	M	0 34 3 2652	13320 99 99				
5	1705	0	1 26737 13	1 26673 27	1 26614 42	1 26591 56	1 26601	
5	1706	100	1 26596 150	1 26602 200	1 26605 250	1 26613 300	1 26612	
5	1707	352	1 26603 400	1 26604 450	1 26610 500	1 26598 523	1 26573	
5	1708	550	1 26577 585	2 26589 597	2 26564 601	2 26529 605	2 26518	
5	1709	611	2 26512 619	2 26521 624	2 26531 625	2 26543 631	3 26598	
5	1710	650	3 26589 694	3 26584 703	3 26625 713	3 26639 733	3 26652	
5	1711	740	3 26645 747	3 26698 757	3 26716 762	3 26736		
6	1715	2 4 045 040	1 2 055 055	1 2 070 055				
3	1800	0	0 19 3 2656	14370 99 99				
5	1805	0	1 26774 50	1 26642 85	1 26625 100	1 26619 120	2 26602	
5	1806	121	2 26557 126	2 26556 132	2 26554 140	2 26554 145	2 26566	
5	1807	146	2 26571 150	2 26603 158	3 26624 200	3 26613 250	3 26621	
5	1808	281	3 26627 285	3 26647 294	3 26683 314	3 26695		
6	1810	1 2 060 050	2 4 060 050	1 2 055 045				
3	2100	Q-TW 1	23 3 2658	14762 99 99				
4	2101	5370						
5	2105	0	1 26698 14	1 26683 28	1 26609 39	1 26586 39	1 26585	
5	2106	42	1 26573 56	1 26565 70	1 26572 79	1 26586 80	1 26588	
5	2107	93	2 26618 110	2 26628 148	2 26641 203	2 26634 203	2 26634	
5	2109	456	2 26684 476	2 26696 481	3 26692 489	3 26657 539	3 26663	
5	2109	639	3 26691 689	3 26707 739	3 26731			
6	2115	1 2 055 055	1 2 050 040	1 2 065 065				
3	2200	RR-OR 2	16 1 2657	14762	30 26683 1 1			
5	2205	0	1 26683 0	1 26609 4	1 26605 11	1 26592 12	1 26588	
5	2206	17	1 26577 29	1 26574 42	1 26558 49	1 26575 53	1 26587	
5	2207	54	1 26598 58	1 26615 70	1 26613 82	1 26615 82	1 26683	
5	2208	0 -9	26683					
6	2215	2 4 055 040						
3	2220	PP-QP 3	2		7			
5	2225	3	26560 2	26683				

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....								
3 2250 GR-RO 4	20	4	32	1	3	1	1	1 2
5 2255	0	1	26750	100	1	26736	200	1 26722 300 1 26714 400 1 26714
5 2256	500	1	26714	655	2	26713	696	2 26713 737 3 26713 800 3 26716
5 2257	900	3	26716	1000	3	26710	1093	4 26700 1100 4 26663 1150 4 26665
5 2258	1200	4	26679	1250	4	26691	1300	4 26707 1350 4 26731 1400 4 26766
3 2300	5	40	4 2660	14815	2	4		
5 2305	64	1	26753	65	1	26749	83	1 26746 84 1 26749 100 1 26751
5 2306	150	1	26742	192	1	26718	213	1 26706 245 1 26697 250 1 26691
5 2307	271	1	26653	300	1	26643	350	1 26637 400 1 26637 450 1 26638
5 2308	500	1	26646	535	2	26643	536	3 26634 538 3 26616 543 3 26586
5 2309	547	3	26578	551	3	26576	556	3 26579 560 3 26582 561 3 26603
5 2310	568	4	26634	600	4	26638	650	4 26653 700 4 26652 750 4 26647
5 2311	800	4	26657	850	4	26659	900	4 26663 950 4 26669 1000 4 26678
5 2312	1050	4	26707	1100	4	26733	1150	4 26742 1200 4 26741 1226 4 26759
6 2315	1 2 050	040	1 2 055	055	1 2 055	055	1 2 050	040
3 2400	5	0	20 3 2661	15615	99	99		
5 2405	0	1	26790	10	1	26711	21	1 26657 50 2 26643 54 2 26607
5 2406	59	2	26598	68	2	26601	76	2 26606 79 2 26614 80 2 26629
5 2407	64	3	26661	100	3	26664	150	3 26663 200 3 26664 250 3 26672
5 2408	300	3	26669	350	3	26685	400	3 26712 450 3 26769 500 3 26798
5 2415	1 2 080	065	1 2 060	060	1 2 045	040		
3 2500 T-TW	0	19	3 2663	16324	99	99		
5 2505	0	1	26793	10	1	26767	22	1 26699 55 1 26679 73 2 26679
5 2506	79	2	26669	86	2	26646	89	2 26627 92 2 26617 97 2 26617
5 2507	103	2	26621	105	2	26626	108	2 26644 115 3 26689 139 3 26708
5 2508	162	3	26747	177	3	26765	200	3 26783 220 3 26796
6 2515	1 2 075	060	1 2 055	050	2 4 065	050		
3 2600 RO-TU	2	20	1 2663	16324	15	26783	1	1
5 2605	0	1	26783	0	1	26771	6	1 26757 15 1 26705 18 1 26694
5 2606	31	1	26682	46	1	26676	52	1 26641 53 1 26640 56 1 26620
5 2607	65	1	26618	75	1	26626	78	1 26633 78 1 26634 83 1 26669
5 2608	93	1	26695	104	1	26732	109	1 26760 108 1 26783 0 -9 26783
6 2615	1 2 060	060						
3 2620 PR-TU	3	4						
5 2625	2	26624	2	26680	4	26680	4	26782
3 2700 APP-U	5	24	5 2664	16467	1	5		
5 2705	0	1	26795	4	1	26794	23	1 26724 41 1 26686 42 2 26686
5 2706	76	3	26680	82	3	26634	83	3 26633 47 3 26625 95 3 26626
5 2707	100	3	26625	106	3	26634	107	3 26640 112 4 26683 126 4 26689
5 2708	150	5	26694	200	5	26705	235	5 26710 235 5 26726 242 5 26748
5 2709	250	5	26750	300	5	26780	356	5 26812 373 5 26820
6 2715	1 2 080	080	1 2 080	080	1 2 060	060	1 2 055	045 1 2 055 045
3 2800 V	0	18	3 2666	17170	99	99		
5 2805	0	1	26808	15	1	26710	34	2 26648 39 2 26679 41 2 26668
5 2806	42	2	26666	44	2	26657	48	2 26649 52 2 26653 58 2 26666

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
5	2807	58 2 26668	62 3 26709	86 3 26701	100 3 26717	150 3 26719		
5	2809	200 3 26732	250 3 26780	275 3 26811				
6	2815	1 2 080 065	1 2 055 055	1 2 050 040				
3	2900	W 1 24 3 2673	18375 99 99					
4	2901	5200						
5	2905	0 1 26886	43 1 26817	126 1 26790	150 1 26780	187 1 26771		
5	2906	207 2 26768	223 2 26727	224 2 26725	226 2 26716	233 2 26715		
5	2907	245 2 26717	249 2 26726	250 2 26730	251 2 26753	267 3 26771		
5	2908	300 3 26771	350 3 26767	400 3 26776	450 3 26780	480 3 26841		
5	2909	525 3 26831	551 3 26836	600 3 26842	650 3 26892			
6	2915	1 2 045 040	1 2 065 050	1 2 045 040				
3	3000	X-TW 0 21 3 2675	19382 99 99					
5	3005	0 1 26890	16 1 26888	50 1 26877	55 1 26871	60 1 26846		
5	3006	73 1 26807	90 2 26813	94 2 26763	98 2 26751	100 2 26744		
5	3007	106 2 26743	116 2 26740	122 2 26751	123 2 26760	129 3 26798		
5	3008	150 3 26802	200 3 26807	250 3 26846	268 3 26864	279 3 26863		
5	3009	300 3 26890						
6	3015	1 2 060 060	1 2 055 045	1 2 045 040				
3	3100	RO-XY 2 22 1 2676	19382	0 26855 4 0				
5	3105	0 1 26861	0 1 26817	7 1 26807	18 1 26808	18 1 26793		
5	3106	25 1 26757	26 1 26752	28 1 26742	37 1 26749	46 1 26749		
5	3107	46 1 26765	51 1 26771	55 1 26783	63 1 26798	70 1 26800		
5	3108	77 1 26804	77 1 26861	58 1 26861	58 1 26850	19 1 26850		
5	3109	19 1 26861	0 -9 26861					
6	3115	1 2 055 055						
3	3120	PR-XY 3 8		3				
5	3125	1 26785	1 26787	2 26787	2 26817	3 26817		
5	3126	3 26850	2 26850	2 26861				
3	3150	RD-XY 4 7 3 30	1 3	1 1 1	2			
5	3155	0 1 26900	50 1 26881	83 2 26876	160 3 26877	200 3 26870		
5	3156	300 3 26862	300 3 26900					
3	3200	APP-Y 5 22 5 2677	19502 1 5					
5	3205	0 1 26900	4 1 26884	8 1 26886	22 1 26887	32 1 26871		
5	3206	50 2 26830	53 2 26823	68 3 26822	74 3 26770	79 3 26758		
5	3207	81 3 26753	85 3 26748	93 3 26752	97 3 26759	98 3 26768		
5	3208	103 4 26794	124 4 26785	127 5 26786	150 5 26790	166 5 26828		
5	3209	180 5 26865	200 5 26905					
6	3215	1 2 055 045	1 2 055 045	1 2 055 055	1 2 045 035	1 2 045 035		
3	3280	YPRIM 0 20 3 2677	19605 99 99					
5	3285	0 1 26903	4 1 26887	8 1 26889	22 1 26890	32 1 26874		
5	3286	53 1 26826	68 2 26825	74 2 26773	79 2 26761	81 2 26756		
5	3287	85 2 26753	93 2 26755	97 2 26762	98 2 26771	103 3 26797		
5	3288	124 3 26788	150 3 26793	166 3 26831	180 3 26868	200 3 26908		
5	3295	1 2 055 045	1 2 055 055	1 2 045 035				
3	3300	Z-DAM 0 23 1 2688	19607 99 99					

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8							
	5	0	5	0	5	0	5	0							
5 3305	0	1	26960	42	1	26936	52	1	26914	55	1	26917	69	1	26922
5 3306	86	1	26935	125	1	26928	136	1	26898	142	1	26876	163	1	26870
5 3307	179	1	26867	184	1	26867	190	1	26867	198	1	26866	210	1	26868
5 3308	222	1	26869	230	1	26869	247	1	26869	252	1	26880	264	1	26991
5 3309	273	1	27003	283	1	27010	287	1	27032						
6 3315	1	2	035	035											
3 3400	AA	0	29	3	2687	20320	99	99							
5 3405	0	1	27016	19	1	26982	37	1	26991	45	1	26987	100	1	26974
5 3406	112	1	26968	121	1	26947	140	1	26935	152	1	26922	165	1	26918
5 3407	140	1	26921	194	1	26912	199	1	26888	202	2	26898	216	2	26882
5 3408	220	2	26868	224	2	26857	239	2	26860	251	2	26865	263	2	26867
5 3409	273	2	26863	279	2	26864	280	2	26883	288	3	26902	300	3	26902
5 3410	350	3	26902	358	3	26913	372	3	26982	381	3	27914			
6 3415	1	2	060	050	1	2	045	040	1	2	050	040			
3 3500	AB-TW	0	30	3	2686	20881	99	99							
5 3505	0	1	27012	6	1	26992	14	1	26971	27	1	26955	41	1	26954
5 3506	48	1	26946	52	1	26926	100	1	26901	150	1	26898	200	2	26908
5 3507	204	2	26903	204	2	26879	207	2	25867	212	2	26857	223	2	26859
5 3508	235	2	26854	238	2	26851	240	2	26868	240	2	26881	247	2	26886
5 3509	251	2	26903	251	3	26927	300	3	26931	381	3	26946	400	3	26947
5 3510	446	3	26943	484	3	26969	491	3	26979	494	3	26994	503	3	27023
6 3515	1	2	045	035	1	2	055	050	1	2	045	035			
3 3600	BR-OP	2	12	1	2687	20881		15	26924	1	0				
5 3605	0	1	26924	0	1	26912	6	1	26913	11	1	26906	12	1	26897
5 3606	14	1	26874	19	1	26859	32	1	26857	42	1	26852	48	1	26864
5 3607	48	1	26924	0	-9	26924									
6 3608	1	2	055	055											
3 3620	PTER	3	4					5							
5 3625	1	26864	1	26912	2	26912	2	26924							
3 3650	ROAD	4	11	3	36	1	3	1	1	1	2				
5 3655	0	1	26957	18	1	26955	59	1	26919	100	1	26922	155	2	26947
5 3656	203	3	26946	300	3	26941	400	3	26952	500	3	26964	600	3	26991
5 3657	648	3	27009												
3 3700	AC-AP	5	27	4	2687	20965	1	4							
5 3705	0	1	27013	13	1	26992	13	1	26947	15	1	26951	20	1	26957
5 3706	37	1	26958	43	1	26950	48	1	26928	100	1	26915	150	1	26908
5 3707	153	2	26914	155	2	26907	158	2	26893	162	2	26888	164	2	26871
5 3708	167	2	26858	171	2	26854	175	2	26854	181	2	26850	185	2	26850
5 3709	190	2	26872	201	3	26932	204	4	26949	214	4	26963	234	4	26972
5 3710	250	4	26974	253	4	27013									
6 3715	1	2	040	035	1	2	035	050	1	2	035	025			
3 3800	AD	0	17	3	2687	21615	99	99							
5 3805	0	1	27018	7	1	26979	14	1	26948	27	1	26931	55	1	26912
5 3806	65	2	26903	67	2	26869	75	2	26855	86	2	26860	94	2	26867
5 3807	96	2	26869	101	2	26899	107	3	26930	144	3	26923	144	3	26940

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
5	3808	175	3	26995	196	3	27013	
6	3815	1	2	045 035	1	2	055 045	1
3	3900	AE	0	18	2	2688	22180	99 99
5	3905	0	1	27026	20	1	26992	50
5	3906	200	1	26933	250	1	26925	263
5	3907	275	2	26877	283	2	26878	291
5	3908	303	2	26956	318	2	26971	333
6	3915	1	2	040 035	1	2	060 050	
3	4000	AE	1	20	3	2693	23325	99 99
4	4001	4640						
5	4005	0	1	27065	5	1	27023	10
5	4006	45	2	26999	50	2	26963	54
5	4007	65	2	26911	69	2	26917	75
5	4008	150	3	26975	200	3	26982	250
6	4015	1	2	040 030	1	2	055 050	1
3	4100	COMP	0	16	3	2693	23349	99 99
5	4105	0	1	27036	17	1	27039	45
5	4106	50	2	26923	54	2	26910	61
5	4107	74	3	27031	74	3	27024	106
5	4108	250	3	27055				
6	4115	1	2	045 045	1	2	055 055	1
3	4150	AG	1	0	19	4	2693	23369
5	4155	0	1	27068	6	1	27038	10
5	4156	50	2	26991	59	2	26959	81
5	4157	95	3	26918	100	3	26915	104
5	4158	113	4	26982	121	4	26996	193
6	4165	1	2	040 020	1	2	060 050	1
3	4200	AG	0	19	4	2693	23411	99 99
5	4205	0	1	27069	6	1	27039	10
5	4206	50	2	26992	59	2	26960	81
5	4207	95	3	26919	100	3	26916	104
5	4208	113	4	26983	121	4	26997	193
6	4215	1	2	040 020	1	2	060 050	1
3	4300	AH	0	18	3	2694	23710	99 99
5	4305	0	1	27077	9	1	27053	14
5	4306	44	1	27008	50	1	26986	75
5	4307	89	2	26921	95	2	26925	102
5	4308	115	3	26987	138	3	27005	196
6	4315	1	2	060 050	1	2	055 040	1
3	4400	AI-TW	0	20	3	2695	23915	99 99
5	4405	0	1	27080	7	1	27033	10
5	4406	45	2	26993	57	2	26974	80
5	4407	93	3	26940	95	3	26934	100
5	4408	114	3	26965	120	3	27007	125
6	4415	1	2	035 035	1	2	060 045	1

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
3 4500 RR-OP	2	11	1	2695	23915	15	27019	1 0
5 4505	0	1	27019	0	1 26955	2	1 26951	3 1 26943 4 1 26938
5 4506	16	1	26934	23	1 26931	27	1 26935	28 1 26955 28 1 27019
5 4507	0	-9	27019					
6 4515	1	2	045 045					
3 4550 ROAD	4	9	2	16	1	2	2	2
5 4555	0	1	27020	16	1 27025	70	1 27043	84 2 27043 96 2 27043
5 4556	120	2	27070	140	2 27093	160	2 27104	180 2 27112
3 4600 AJ-AP	5	19	6	2695	23963	3	5	
5 4605	-5	1	27128	0	1 27084	8	1 27010	11 1 27023 30 2 27028
5 4606	60	2	26982	71	3 26965	73	3 26958	74 3 26940 75 4 26938
5 4607	77	4	26934	84	4 26932	94	4 26933	103 5 26937 107 5 26939
5 4608	112	6	26980	140	6 27041	160	6 27084	170 6 27115
6 4615	1	2	035 035	1	2 065 050	1	2 050 040	1 2 050 040 1 2 050 040
6 4616	1	2	045 035					
3 4700 AK	0	18	2	2698	24620	99	99	
5 4705	0	1	27120	6	1 27112	9	1 27104	18 1 26999 23 1 26986
5 4706	25	1	26974	30	1 26966	33	1 26964	37 1 26969 40 1 26977
5 4707	52	2	27028	80	2 27019	150	2 27036	200 2 27058 250 2 27064
5 4708	300	2	27078	350	2 27104	375	2 27126	
6 4715	1	2	065 060	1	2 045 035			
3 4800 AL	0	20	3	2701	25430	99	99	
5 4805	0	1	27148	4	1 27128	25	1 27105	42 1 27064 52 1 27044
5 4806	74	2	27041	78	2 27004	82	2 26994	89 2 26999 95 2 27003
5 4807	99	2	27005	102	2 27015	112	2 27033	119 3 27057 150 3 27046
5 4808	200	3	27043	250	3 27044	300	3 27040	311 3 27051 357 3 27159
6 4815	1	2	075 055	1	2 055 050	1	2 045 035	
3 4900 AM	0	18	3	2703	25875	99	99	
5 4905	0	1	27170	36	1 27137	52	1 27129	100 1 27097 126 1 27069
5 4906	150	1	27061	188	2 27041	193	2 27023	207 2 27019 211 2 27010
5 4907	218	2	27011	220	2 27016	225	3 27057	250 3 27067 300 3 27080
5 4908	350	3	27107	375	3 27134	396	3 27168	
6 4915	2	4	065 045	1	2 055 050	1	2 045 035	
3 4950 AM+.5	0	18	3	2704	25988	99	99	
5 4955	0	1	27175	36	1 27142	52	1 27134	100 1 27102 126 1 27074
5 4956	150	1	27066	188	2 27046	193	2 27028	207 2 27024 211 2 27015
5 4957	218	2	27016	220	2 27021	225	3 27062	250 3 27072 300 3 27085
5 4958	350	3	27112	375	3 27139	396	3 27173	
6 4965	2	4	065 045	1	2 055 050	1	2 045 035	
3 5000 BRIDG	2	15	1	2703	25988	15	27083	1 0
5 5005	0	1	27084	0	1 27043	5	1 27042	5 1 27031 7 1 27027
5 5006	11	1	27025	18	1 27016	26	1 27020	33 1 27027 35 1 27032
5 5007	38	1	27045	40	1 27047	40	1 27085	20 1 27081 0 -9 27084
6 5015	1	2	055 055					
3 5050 ROAD	4	14	2	16	1	2	2	2

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8							
5 5055	0	1	27178	50	1	27140	100	1	27114	150	1	27101	200	1	27099
5 5056	220	2	27098	241	2	27096	250	2	27089	300	2	27062	312	2	27066
5 5057	362	2	27072	412	2	27097	447	2	27145	462	2	27182			
3 5100 AN	5	22	4	2705	26048	1	3								
5 5105	0	1	27179	22	1	27150	50	1	27125	86	1	27088	91	1	27065
5 5106	92	2	27063	100	2	27048	101	2	27037	105	2	27031	109	2	27029
5 5107	114	2	27028	121	2	27038	125	2	27054	132	3	27062	133	3	27063
5 5108	140	4	27080	150	4	27069	200	4	27066	250	4	27072	300	4	27057
5 5109	335	4	27145	350	4	27182									
6 5115 1	2	055	045	1	2	055	045	1	2	055	045	1	2	045	030
3 5200 AO	0	17	2	2707	26760	99	99								
5 5205	0	1	27205	127	1	27111	150	1	27103	165	2	27097	169	2	27062
5 5206	173	2	27056	181	2	27053	185	2	27053	189	2	27061	194	2	27093
5 5207	200	2	27118	209	2	27140	213	2	27147	214	2	27153	225	2	27170
5 5208	227	2	27185	247	2	27204									
6 5215 1	2	045	035	1	2	055	050								
3 5300 AP	0	22	4	2712	27865	99	99								
5 5305	0	1	27271	40	1	27261	88	1	27259	100	1	27257	150	1	27249
5 5306	200	1	27242	250	1	27297	300	1	27238	350	2	27235	400	2	27202
5 5307	450	3	27152	451	3	27142	456	3	27138	457	3	27119	465	3	27122
5 5308	471	3	27118	483	3	27109	486	4	27128	550	4	27162	556	4	27211
5 5309	557	4	27236	590	4	27270									
6 5315 1	2	035	035	1	2	050	040	1	2	055	045	1	2	055	050
3 5400 AQ-TW	0	22	4	2716	28514	99	99								
5 5405	0	1	27291	30	1	27263	44	1	27259	60	1	27246	78	1	27217
5 5406	94	1	27195	105	2	27184	111	2	27169	112	2	27149	118	2	27144
5 5407	125	2	27141	131	2	27142	135	2	27148	137	2	27162	140	2	27208
5 5408	147	3	27235	167	3	27233	173	3	27230	178	4	27268	200	4	27276
5 5409	250	4	27288	267	4	27291									
6 5415 1	2	065	045	1	2	055	045	1	2	035	035	1	2	050	050
3 5500 BRIDGE	2	20	1	2717	28514		15	27223	2	0					
5 5505	0	1	27224	0	1	27202	5	1	27197	8	1	27186	13	1	27160
5 5506	15	1	27152	18	1	27151	20	1	27152	20	1	27164	26	1	27158
5 5507	27	1	27153	31	1	27144	37	1	27134	44	1	27126	45	1	27142
5 5508	45	1	27207	47	1	27208	47	1	27221	23	1	27224	0	9	27224
6 5515 1	2	050	050												
3 5520 PIER	3	2					3								
5 5525	1		27164	1		27224									
3 5550 ROAD	4	9	3	28	1		3	1	1	1			2		
5 5555	0	1	27288	27	1	27274	50	1	27260	92	2	27242	139	3	27239
5 5556	150	3	27242	200	3	27252	250	3	27273	296	3	27296			
3 5600 AP	5	20	3	2716	28602	1	3								
5 5605	0	1	27300	6	1	27279	27	1	27287	44	1	27285	50	1	27250
5 5606	56	1	27212	79	2	27202	94	2	27170	96	2	27152	99	2	27143
5 5607	107	2	27146	114	2	27148	118	2	27153	119	2	27174	126	3	27201

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
5	5608	137	3 27215	148	3 27230	162	3 27259	200 3 27283 216 3 27301
6	5615	1 2 050 040	1 2 050 055	1 2 045 040				
3	5700	AS-TW 0	16 3 2716	28785 99 99				
5	5705	0	1 27307	4 1 27294	27 1 27280	42 2 27267	46 2 27238	
5	5706	52	2 27190	58 2 27166	59 2 27161	62 2 27150	66 2 27147	
5	5707	71	2 27151	75 2 27165	78 3 27197	122 3 27217	144 3 27276	
5	5708	172	3 27307					
6	5715	1 2 035 035	1 2 055 050	1 2 045 045				
3	5800	BRIDG 2	15 1 2717	28785	30 27268	1 1		
5	5805	0	1 27265	0 1 27168	1 1 27165	1 1 27162	4 1 27159	
5	5806	12	1 27154	18 1 27157	23 1 27162	23 1 27169	25 1 27192	
5	5807	31	1 27194	43 1 27205	47 1 27202	47 1 27271	0 -9 27265	
6	5815	1 2 055 055						
3	5820	PIER 3	2		2			
5	5825	1	27175	1 27268				
3	5850	ROAD 4	7 3 28	1 3	1 1		2	
5	5855	0	1 27311	6 1 27295	50 2 27287	98 3 27289	150 3 27279	
5	5856	181	3 27279	200 3 27311				
3	5900	AT 5	23 4 2718	28890 1 3				
5	5905	0	1 27314	9 1 27304	16 1 27253	21 1 27216	22 2 27212	
5	5906	27	2 27193	31 2 27170	37 2 27166	43 2 27165	49 2 27169	
5	5907	54	2 27172	57 2 27180	64 2 27191	69 3 27212	71 4 27221	
5	5908	76	4 27212	97 4 27219	107 4 27240	134 4 27273	158 4 27280	
5	5909	163	4 27268	172 4 27295	195 4 27312			
6	5915	1 2 055 045	1 2 055 045	1 2 055 045	1 2 045 040			
3	6000	AU 0	17 1 2722	29625 99 99				
5	6005	0	1 27358	8 1 27297	19 1 27249	31 1 27214	36 1 27214	
5	6006	46	1 27211	54 1 27209	59 1 27215	61 1 27230	67 1 27248	
5	6007	85	1 27275	112 1 27307	127 1 27338	145 1 27335	150 1 27343	
5	6008	157	1 27346	160 1 27359				
6	6015	1 2 050 050						
3	6100	AV 1	18 4 2725	30015 99 99				
4	6101	4460						
5	6105	0	1 27392	19 1 27336	21 2 27303	28 2 27282	35 3 27306	
5	6106	57	4 27291	62 4 27261	66 4 27243	69 4 27238	75 4 27236	
5	6107	83	4 27237	88 4 27244	91 4 27262	96 4 27285	100 4 27304	
5	6108	106	4 27361	116 4 27389	128 4 27387			
6	6115	1 2 055 055	1 2 055 055	1 2 050 035	1 2 060 050			

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
80-LM	WARNING	STATION	11	IS LESS THAN	STATION	10	
BR-QR	WARNING	STATION	16	IS LESS THAN	STATION	15	
80-TJ	WARNING	STATION	20	IS LESS THAN	STATION	19	
80-XY	WARNING	STATION	18	IS LESS THAN	STATION	17	
80-XY	WARNING	STATION	20	IS LESS THAN	STATION	19	
80-XY	WARNING	STATION	22	IS LESS THAN	STATION	21	
BR-OP	WARNING	STATION	12	IS LESS THAN	STATION	11	
BR-OP	WARNING	STATION	11	IS LESS THAN	STATION	10	
BRIDG	WARNING	STATION	14	IS LESS THAN	STATION	13	
BRIDG	WARNING	STATION	15	IS LESS THAN	STATION	14	
RRIDG	WARNING	STATION	19	IS LESS THAN	STATION	18	
BRIDG	WARNING	STATION	20	IS LESS THAN	STATION	19	
BRIDG	WARNING	STATION	15	IS LESS THAN	STATION	14	

INPUT SUMMARY FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV

67 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 67 TYPE 3 CARDS

KEPT 67 CROSS SECTIONS FOR EDITING

67 " " VALID FOR PROPERTY COMPUTATIONS

67 " " " " PROFILE "

*** INPUT CARD PRINTOUT ***

Card No.	1	2	3	4	5	6	7	8
9 90100	1000	HOR	30	180	2645A7			
9 90110	1100	HOR	130	315	264816			
9 90120	1200	HOR	100	440	265204			
9 90130	1300	HOR	160	465	2655A9			
9 90140	1400	HOR	192	710	266077			
9 90150	1600	HOR	420	679	2661A0			
9 90170	1700	HOR	340	660	266255			
9 90180	1800	HOR	100	241	266576			
9 90210	2100	HOR	16	577	266737			
9 90230	2300	HOR	500	740	266881			
9 90240	2400	HOR	10	330	266959			
9 90250	2500	HOR	17	151	267288			
9 90270	2700	HOR	60	185	267558			
9 90280	2800	HOR	15	150	267673			
9 90290	2900	HOR	185	350	269006			
9 90300	3000	HOR	90	243	268409			
9 90320	3200	HOR	53	165	268731			
9 9032A	3280	HOR	45	171	268746			
9 90330	3300	HOR	132	257	269101			
9 90340	3400	HOR	190	300	269517			
9 90350	3500	HOR	44	469	269588			
9 90370	3700	HOR	90	211	269593			
9 90380	3800	HOR	30	128	269758			
9 90390	3900	HOR	100	318	269868			
9 90410	4100	HOR	43	219	270084			
9 90415	4150	HOR	44	219	270304			
9 90420	4200	HOR	46	155	270396			
9 90430	4300	HOR	50	150	270406			
9 90440	4400	HOR	44	140	270462			
9 90460	4600	HOR	4	127	270512			
9 90470	4700	HOR	35	125	270708			
9 90480	4800	HOR	11	131	270808			
9 90490	4900	HOR	50	250	270891			
9 90495	4950	HOR	120	280	270968			
9 90510	5100	HOR	101	333	271027			
9 90520	5200	HOR	86	285	271059			
9 90530	5300	HOR	84	211	271430			
9 90540	5400	HOR	450	533	272100			
9 90560	5600	HOR	105	147	272358			
9 90570	5700	HOR	55	135	272668			
9 90590	5900	HOR	36	143	272721			
9 90600	6000	HOR	10	80	272968			
9 90610	6100	HOR	8	100	273125			
9 99999	6100	HOR	19	103	273359			

FLOODWAY H-AV

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

M-APP; HIN TOO LOW	:		USED HIN = WSD+0.01
M-APP; MAX QBO < QT (3)	:		CHECKED QBO
Q-TW ; KU/KD < 0.7 OR > 1.4	:		ALERTED USER
R ; HIN TOO LOW	:		USED HIN = WSD+0.01
R ; KU/KD < 0.7 OR > 1.4	:		ALERTED USER
R ; WSU > BELMX (1)	:		CHECKED QBO (2)
R ; YU/Z < 1.1 (1)	:		ASSUMED QBO (1)
T-TW ; KU/KD < 0.7 OR > 1.4	:		ALERTED USER
APP-U; KU/KD < 0.7 OR > 1.4	:		ALERTED USER
APP-Y; WSU > BELMX (1)	:		CHECKED QBO (2)
Z-DAM; WS NOT FOUND BETWEEN	:	WS = 2687.12 & WS = 2703.20;	USED DEL = 0.25
Z-DAM; WS NOT FOUND BETWEEN	:	WS = 2687.12 & WS = 2703.20;	USED WSMIN = WSC
Z-DAM; WS NOT FOUND	:		ASSUMED WS = WSC
AA ; KU/KD < 0.7 OR > 1.4	:		ALERTED USER
AB-TW; KU/KD < 0.7 OR > 1.4	:		ALERTED USER
AC-AP; HIN TOO LOW	:		USED HIN = WSD+0.01
AC-AP; KU/KD < 0.7 OR > 1.4	:		ALERTED USER
AC-AP; QRD > QT	:		ASSUMED WSU = HIN
AE ; KU/KD < 0.7 OR > 1.4	:		ALERTED USER
AF ; KU/KD < 0.7 OR > 1.4	:		ALERTED USER
COMP ; WS NOT FOUND BETWEEN	:	WS = 2700.85 & WS = 2705.50;	USED DEL = 0.25
COMP ; WS NOT FOUND BETWEEN	:	WS = 2700.85 & WS = 2705.50;	USED WSMIN = WSC
COMP ; WS NOT FOUND	:		ASSUMED WS = WSC
AG-.1; KU/KD < 0.7 OR > 1.4	:		ALERTED USER
AJ-AP; HIN TOO LOW	:		USED HIN = WSD+0.01
AJ-AP; MAX QBO < QT (3)	:		

AK ; KU/KD < 0.7 OR > 1.4
AM ; KU/KD < 0.7 OR > 1.4
AN ; MAX QBO < QT (3)
AN ; MIN QTC > QT (3)
AO ; KU/KD < 0.7 OR > 1.4
AP ; KU/KD < 0.7 OR > 1.4
AQ-TW ; KU/KD < 0.7 OR > 1.4
AR ; KU/KD < 0.7 OR > 1.4
AR ; MAX QBO < QT (3)
AR ; MIN QTC > QT (3)
AU ; KU/KD < 0.7 OR > 1.4

CHECKED ORD

ALERTED USER

ALERTED USER

CHECKED ORD

ASSUMED WSU = HIN

ALERTED USER

ALERTED USER

ALERTED USER

ALERTED USER

CHECKED ORD

ASSUMED WSU = HIN

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
 PAGE 1 OF 5, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY H-AV

SECID	AT	WS ELEV	HV	HF	HE	AREA	CONVEYANCE	ALPHA	LEW	REW	ACC	ID
H	AT	7690 / 2646.03	0 / 0.99	6390. /	854. / 2647.02	112930. /	1.14 / 7.48	80. / 0.47	180. /			*IS*
I	AT	8710 / 2649.15	1020 / 0.48	6390. / 2.62	1206. / 0.0	140944. / 2649.64	1.11 / 5.30	130. / 0.36	315. / 0.001			*XS*
J	AT	10335 / 2652.88	1625 / 0.39	6390. / 3.63	1341. / 0.0	129607. / 2653.27	1.10 / 4.77	100. / 0.43	440. / 0.001			*XS*
K	AT	11705 / 2656.88	1370 / 0.51	6390. / 4.06	1145. / 0.06	106276. / 2657.39	1.05 / 5.58	160. / 0.46	465. / -0.000			*XS*
L-TW	AT	12858 / 2661.17	1153 / 0.66	6390. / 4.36	1347. / 0.07	101687. / 2661.83	1.89 / 4.74	192. / 0.50	710. / 0.007			*XS*
===== BEGIN BRIDGE ANALYSIS =====												
BO-LM	AT	12858 / 2657.00	/ 0.66	1381. / ...3...	211. / (-.001)	11207. / 6.53	1.00 / 0.46	0. /	34. /			*R0*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 4679. / RIGHT 448. / *RG* =====												
M-APP	AT	12906 / 2661.18	48 / 1.03	6390. / 0.20	926. / 0.19	95800. / 2662.21	1.38 / 6.90	420. / 0.55	678. / -0.011			*AS*
M = **** / E = **** / K* = **** / 926. / 95800. / 1.38 / 420. / 678. / 2661.18 / 1.03 / 2662.21 / 6.90 / 0.55 / *AS*												
===== END BRIDGE ANALYSIS =====												
N	AT	13320 / 2663.26	414 / 0.34	6390. / 1.39	1410. / 0.0	126824. / 2663.60	1.07 / 4.53	340. / 0.40	660. / 0.001			*XS*
O	AT	14370 / 2666.70	1050 / 0.87	6390. / 3.70	884. / 0.27	91355. / 2667.57	1.07 / 7.23	100. / 0.49	241. / 0.001			*XS*
Q-TW	AT	14762 / 2668.27	392 / 0.13	5370. / 0.84	2011. / 0.0	177663. / 2668.40	1.19 / 2.67	16. / 0.24	577. / 0.000			*XS*
===== BEGIN BRIDGE ANALYSIS =====												
RR-OR	AT	14762 / 2668.27	/ 0.57	3964. / ...1...	654. / (0.047)	93539. / 6.06	1.00 / 0.35	0. /	82. /			*R0*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 1333. / *RG* =====												
R	AT	14815 / 2668.28	53 / 0.43	5370. / 0.09	1041. / 0.23	95682. / 2668.71	1.04 / 5.16	500. / 0.45	740. / -0.011			*AS*
M = 0.62 / E = 0.37 / K* = 1.10 / 1221. / 123597. / 1.02 / 500. / 740. / 2669.03 / 0.31 / 2669.34 / 4.40 / 0.36 / *AS*												
===== END BRIDGE ANALYSIS =====												
S	AT	15615 / 2670.53	800 / 0.22	5370. / 1.43	1448. / 0.0	130368. / 2670.76	1.05 / 3.71	11. / 0.34	330. / -0.014			*XS*

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
 PAGE 2 OF 5. PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY H-AV

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW							
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID								
T-TW	AT	16324	/	709	/	5370.	/	643.	/	56842.	/	1.36	/	17.	/	150.
2672.67	/	1.47	/	2.76	/	0.63	/	2674.14	/	8.35	/	0.67	/	0.001	/	*XS*
===== BEGIN BRIDGE ANALYSIS =====																
B0-TU	AT	16324	/		/	5370.	/	522.	/	41009.	/	1.00	/	11.	/	102.
2672.67	/	1.65	/	...	/	1...	/	(0.057)	/	10.29	/	0.74	/		/	*R0*

NO EMBANKMENT CROSS SECTION

APP-U	AT	16467	/	143	/	5370.	/	843.	/	82056.	/	1.11	/	60.	/	185.	
2674.32	/	0.70	/	0.88	/	0.0	/	2675.02	/	6.37	/	0.40	/	-0.000	/	*AS*	
M =	0.18	/	E =	0.0	/	K* =	0.45	/	957.	/	100124.	/	1.11	/	60.	/	185.
2675.23	/	0.54	/		/		/	2675.77	/	5.61	/	0.33	/		/	*AS*	

V	AT	17170	/	703	/	5370.	/	936.	/	104001.	/	1.06	/	15.	/	150.
2677.18	/	0.54	/	1.95	/	0.00	/	2677.72	/	5.74	/	0.44	/	0.002	/	*XS*

W	AT	18375	/	1205	/	5200.	/	853.	/	84441.	/	1.03	/	185.	/	350.
2680.99	/	0.59	/	3.83	/	0.02	/	2681.58	/	6.09	/	0.44	/	0.002	/	*XS*

X-TW	AT	19382	/	1007	/	5200.	/	779.	/	83509.	/	1.11	/	90.	/	243.
2684.76	/	0.77	/	3.86	/	0.09	/	2685.53	/	6.68	/	0.47	/	0.001	/	*XS*

B0-XY	AT	19382	/		/	4849.	/	552.	/	34440.	/	1.00	/	0.	/	77.
2686.10	/	1.20	/	...	/	2...	/	(0.032)	/	8.79	/	0.58	/		/	*R0*

EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 287. / *RG*

APP-Y	AT	19502	/	120	/	5200.	/	706.	/	83439.	/	1.09	/	53.	/	165.
2685.16	/	0.92	/	0.47	/	0.07	/	2686.07	/	7.36	/	0.40	/	-0.000	/	*AS*

M =	***	/	F =	***	/	K* =	***	/	930.	/	129398.	/	1.10	/	53.	/	165.
2687.15	/	0.54	/		/		/	2687.69	/	5.59	/	0.27	/		/	*AS*	

YPRIM	AT	19605	/	103	/	5200.	/	973.	/	132032.	/	1.09	/	45.	/	171.
2687.37	/	0.48	/	0.16	/	0.0	/	2687.85	/	5.34	/	0.40	/	-0.001	/	*XS*

Z-DAM	AT	19607	/	2	/	5200.	/	473.	/	48531.	/	1.00	/	132.	/	257.
2691.01	/	1.88	/	*****	/	*****	/	2692.89	/	11.00	/	0.99	/	*****	/	*XS*

AA	AT	20320	/	713	/	5200.	/	856.	/	121567.	/	1.09	/	190.	/	300.
2695.54	/	0.62	/	3.27	/	0.0	/	2696.16	/	6.08	/	0.40	/	0.000	/	*XS*

AB-TW	AT	20881	/	561	/	5200.	/	1978.	/	232564.	/	1.12	/	44.	/	469.
2696.58	/	0.12	/	0.54	/	0.0	/	2696.70	/	2.63	/	0.22	/	0.000	/	*XS*

BR-OP	AT	20881	/		/	0.	/	232.	/	11468.	/	1.00	/	0.	/	48.
2692.40	/	0.0	/	...	/	3...	/	(0.030)	/	0.0	/	0.0	/		/	*R0*

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
 PAGE 3 OF 5, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY H-AV

=====

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*

=====

EMBRANKMENT OVERFLOW (CFS) / LEFT 3387. / RIGHT 3049. / *RG*

AC-AP AT 20965 / 84 / 5200. / 789. / 96534. / 1.02 / 90. / 211.
 2696.59 / 0.69 / 0.10 / 0.49 / 2697.28 / 6.59 / 0.39 / -0.011 *AS*

M = **** / E = **** / K* = **** / 789. / 96534. / 1.02 / 90. / 211.
 2696.59 / 0.69 / / 2697.28 / 6.59 / 0.39 / *AS*

===== END BRIDGE ANALYSIS =====

AD	AT	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
	21615	650	5200.	802.	112893.	1.05	30. / 128.
	2698.21	0.69	1.61	0.00	2698.90	6.49	0.38 / 0.006 *XS*

AF	AT	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
	22180	565	5200.	1478.	196344.	1.03	100. / 318.
	2699.39	0.20	0.69	0.0	2699.58	3.52	0.26 / -0.000 *XS*

AF	AT	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
	23325	1145	4640.	749.	73869.	1.00	43. / 219.
	2701.10	0.60	1.91	0.20	2701.70	6.19	0.58 / 0.001 *XS*

COMP	AT	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
	23349	24	4640.	545.	36852.	1.14	44. / 219.
	2703.09	1.29	*****	*****	2704.38	8.51	0.55 / ***** *XS*

AG-.1	AT	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
	23369	20	4640.	751.	89334.	1.15	46. / 155.
	2703.84	0.68	0.13	0.0	2704.52	6.18	0.41 / 0.010 *XS*

AG	AT	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
	23411	42	4640.	719.	86443.	1.14	50. / 150.
	2703.93	0.74	0.12	0.03	2704.67	6.45	0.42 / -0.000 *XS*

AH	AT	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
	23710	299	4640.	761.	106208.	1.24	44. / 140.
	2704.65	0.72	0.70	0.0	2705.37	6.10	0.41 / 0.001 *XS*

AI-TW	AT	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
	23915	205	4640.	826.	101019.	1.04	4. / 127.
	2705.27	0.51	0.41	0.0	2705.78	5.62	0.36 / -0.000 *XS*

===== BEGIN BRIDGE ANALYSIS =====

BR-OP	AT	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
	23915	/	2096.	222.	16123.	1.00	0. / 28.
	2701.90	1.38	...3...	(-.001)	9.43	0.58	/*R0*

EMBRANKMENT OVERFLOW (CFS) / LEFT 2104. / RIGHT 358. / *RG*

AJ-AP	AT	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
	23963	48	4640.	759.	113863.	1.25	35. / 125.
	2705.28	0.73	0.09	0.15	2706.01	6.11	0.40 / -0.011 *AS*

M = **** / F = **** / K* = **** / 907. / 147921. / 1.24 / 35. / 125.
 2706.92 / 0.51 / / 2707.43 / 5.12 / 0.32 / *AS*

===== END BRIDGE ANALYSIS =====

AK	AT	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
	24820	857	4640.	816.	94864.	1.06	11. / 131.
	2708.22	0.53	1.31	0.01	2708.76	5.68	0.47 / 0.000 *XS*

AL	AT	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
	25430	610	4640.	1142.	130123.	1.05	50. / 250.
	2709.55	0.27	1.06	0.0	2709.82	4.06	0.34 / 0.001 *XS*

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
 PAGE 4 OF 5, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY H-AV

=====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	

=====

AM	AT	25875	445	4640.	808.	81601.	1.05	120.	280.
2710.30		0.54	0.90	0.13	2710.84	5.74	0.41	-0.019	*XS*

AM+.5	AT	25988	113	4640.	929.	85489.	1.10	101.	333.
2710.76		0.43	0.35	0.0	2711.19	4.99	0.39	-0.001	*XS*

===== BEGIN BRIDGE ANALYSIS =====

BRIDG	AT	25988		1066.	214.	10592.	1.00	0.	40.
2708.50		0.39	...	...	(-.001)	4.98	0.37		*B0*

EMBANKMENT OVERFLOW (CFS) / LEFT 359. / RIGHT 3497. / *RG*

AN	AT	26048	19	4640.	857.	98019.	1.03	86.	285.
2710.89		0.47	0.15	0.02	2711.36	5.41	0.51	-0.001	*AS*

M = **** / E = **** / K* = **** / 857. / 98019. / 1.03 / 86. / 285.
 2710.89 / 0.47 / / 2711.36 / 5.41 / 0.51 / *AS*

===== END BRIDGE ANALYSIS =====

AO	AT	26760	712	4640.	469.	40836.	1.01	85.	210.
2714.19		1.54	3.83	0.54	2715.72	9.88	0.77	-0.003	*XS*

AP	AT	27865	1105	4640.	719.	85329.	1.03	450.	533.
2721.89		0.67	6.83	0.0	2722.55	6.45	0.40	0.001	*XS*

AO-TW	AT	28514	649	4640.	353.	40446.	1.00	105.	147.
2724.93		2.69	4.05	1.01	2727.61	13.14	0.80	-0.000	*XS*

===== BEGIN BRIDGE ANALYSIS =====

BRIDG	AT	28514		3238.	282.	16845.	1.00	0.	47.
2722.40		2.06	...	...	(0.021)	11.50	0.81		*B0*

EMBANKMENT OVERFLOW (CFS) / LEFT 723. / RIGHT 1508. / *RG*

AR	AT	28602	88	4640.	735.	89663.	1.02	55.	135.
2727.50		0.63	0.52	0.0	2728.14	6.31	0.35	0.000	*AS*

M = **** / E = **** / K* = **** / 735. / 89663. / 1.02 / 55. / 135.
 2727.50 / 0.63 / / 2728.14 / 6.31 / 0.35 / *AS*

===== END BRIDGE ANALYSIS =====

AS-TW	AT	28785	183	4640.	762.	88887.	1.03	36.	143.
2728.04		0.59	0.49	0.0	2728.63	6.09	0.37	-0.000	*XS*

===== BEGIN BRIDGE ANALYSIS =====

BRIDG	AT	28785		3612.	358.	23606.	1.00	0.	47.
2727.10		1.59	...	...	(0.025)	10.10	0.60		*B0*

EMBANKMENT OVERFLOW (CFS) / LEFT 192. / RIGHT 866. / *RG*

AT	AT	28890	105	4640.	587.	81946.	1.10	12.	80.
2728.11		1.07	0.31	0.24	2729.18	7.91	0.48	-0.000	*AS*

M = **** / E = **** / K* = **** / 700. / 106860. / 1.11 / 10. / 80.

2724.75 / 0.76 /

/ 2730.51 / 6.63 / 0.37 /

AS

=====
END BRIDGE ANALYSIS
=====

[Faint handwritten notes or calculations, possibly including the number 11]

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
PAGE 5 OF 5, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
*** FLOODWAY ANALYSIS *** FLOODWAY H-AV

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
AU	29625	735	4640.	673.	71811.	1.00	8.	100.	2731.84	0.74	2.06	0.0	2732.57	6.90	0.45	0.000	*XS*
AV	30015	390	4460.	511.	53271.	1.05	19.	103.	2733.69	1.25	2.11	0.25	2734.94	8.74	0.58	0.001	*XS*

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

Line	Station	1	2	3	4	5	6	7	8
1	1 COVE CREEK LOWER FLOODWAY								
2	2 262436								
3	100 A	1	34	3	2614	1040	99	99	
4	101	6760							
5	105	0	1	26443	45	1	26379	65	1
5	106	194	1	26219	211	1	26212	250	1
5	107	400	1	26221	450	2	26223	466	2
5	108	484	2	26134	494	2	26137	498	2
5	109	546	3	26221	600	3	26220	650	3
5	110	800	3	26207	850	3	26197	884	3
5	111	912	3	26275	929	3	26265	933	3
6	115 1	2	050	045	2	4	040	045	1
3	201 R	0	31	3	2619	2650	99	99	
5	205	0	1	26492	4	1	26419	12	1
5	206	71	1	26316	104	1	26280	150	1
5	207	300	1	26262	350	1	26261	400	1
5	208	550	1	26241	600	1	26237	629	2
5	209	642	2	26181	653	2	26188	664	2
5	210	727	3	26243	739	3	26317	748	3
5	211	777	3	26492					
6	215 1	2	040	035	1	2	050	050	1
3	301 C	0	26	3	2622	3720	99	99	
5	305	0	1	26509	16	1	26419	44	1
5	306	77	1	26320	83	1	26291	135	1
5	307	175	2	26217	184	2	26214	188	2
5	308	204	3	26273	250	3	26278	300	3
5	309	450	3	26285	500	3	26291	514	3
5	310	550	3	26509					
6	315 1	2	045	040	1	2	050	050	1
3	401 D	0	30	3	2626	5095	99	99	
5	405	0	1	26550	11	1	26425	31	1
5	406	78	1	26364	100	1	26333	150	1
5	407	300	1	26318	350	1	26311	380	2
5	408	390	2	26263	395	2	26260	404	2
5	409	410	3	26319	450	3	26295	500	3
5	410	650	3	26401	692	3	26427	718	3
6	415 1	2	045	040	1	2	050	050	1
3	501 F	0	25	2	2628	6020	99	99	
5	505	0	1	26544	8	1	26472	12	1
5	506	51	1	26356	55	1	26350	62	1
5	507	75	1	26275	82	1	26284	95	1
5	508	150	2	26353	200	2	26349	250	2
5	509	375	2	26478	392	2	26488	412	2
6	510 1	2	060	050	1	2	045	035	
3	600 F-TW	0	20	2	2631	6805	99	99	

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8	
5	605	0	1 26542	10	1 26483	28	1 26466	53 2 26456	59 2 26418
5	606	65	2 26394	76	2 26354	87	2 26301	91 2 26297	96 2 26307
5	607	106	2 26318	113	2 26312	123	2 26303	130 2 26304	133 2 26336
5	608	139	2 26342	150	2 26378	163	2 26438	177 2 26490	198 2 26496
6	615	1 2 050	050 1 2 050	045					
3	700	RR-FG 2	19 1 2631	6805		15 26447	1 1		
5	705	0	1 26447	0	1 26377	10	1 26356	25 1 26346	29 1 26344
5	706	29	1 26333	32	1 26323	33	1 26311	40 1 26302	50 1 26303
5	708	64	1 26298	67	1 26298	67	1 26334	71 1 26341	74 1 26349
5	709	88	1 26352	92	1 26380	92	1 26447	0 -9 26447	
6	715	2 4 050	045						
3	800	RD-FG 4	8 3 30	2	3	2	1 1	2	
5	805	0	1 26515	23	1 26493	62	1 26471	124 2 26468	172 3 26468
5	806	219	3 26468	239	3 26480	262	3 26503		
3	900	APP-G 5	18 3 2631	7045	1 3				
5	905	0	1 26538	10	2 26437	15	2 26383	20 2 26369	28 2 26359
5	906	33	2 26327	35	2 26312	41	2 26309	47 2 26309	55 2 26303
5	907	63	2 26310	66	2 26334	78	2 26365	87 2 26374	102 3 26425
5	908	107	3 26442	118	3 26475	142	3 26505		
6	915	2 4 050	045 2 4 050	045 2 4 050	045				
3	1000	H	1 27 3 2634	7690	99 99				
4	1001	6390							
5	1005	0	1 26545	11	1 26497	20	1 26460	27 1 26438	27 1 26427
5	1006	96	2 26400	105	2 26393	110	2 26372	116 2 26356	118 2 26336
5	1007	123	2 26332	129	2 26332	139	2 26329	143 2 26333	144 2 26359
5	1008	153	3 26378	162	3 26399	207	3 26414	215 3 26450	219 3 26480
5	1009	220	3 26499	241	3 26499	300	3 26498	350 3 26511	400 3 26522
5	1010	433	3 26517	440	3 26552				
6	1015	1 2 055	045 1 2 050	045 1 2 045	050				
3	1100	I	0 19 2 2639	8710	99 99				
5	1105	0	1 26579	12	1 26507	23	1 26473	25 1 26466	46 1 26440
5	1106	100	1 26452	150	1 26451	200	1 26440	250 2 26427	262 2 26401
5	1107	264	2 26376	270	2 26372	278	2 26373	290 2 26371	295 2 26373
5	1108	296	2 26388	305	2 26429	316	2 26487	324 2 26518	
6	1115	1 3 060	045 1 2 055	045					

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER FLOODWAY 4-I

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BR-FG	WARNING	STATION	19	IS LESS THAN	STATION	18	

INPUT SUMMARY FOR: COVE CREEK LOWER FLOODWAY A-1

11 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 11 TYPE 3 CARDS

KEPT 11 CROSS SECTIONS FOR EDITING

11 " " VALID FOR PROPERTY COMPUTATIONS

11 " " " " PROFILE "

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....

7 77777
8 88888

1
1

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

9 90010	100	VHD	100	450	546	262336
9 90020	201	VHD	100	629	665	262770
9 90030	301	HOR		135	394	263062
9 90040	401	HOR		280	505	263495
9 90050	501	HOR		40	260	263771
9 90060	600	HOR		61	157	264098
9 90070	900	HOR		10	102	264249
9 90080	1000	VHD	100	96	144	264587
9 90090	1100	VHD	100	250	324	264816
9 90100		END				

FLOODWAY A-I 1ST

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER FLOODWAY
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

A-I

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

I ; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER FLOODWAY A-I
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY A-I 1ST

SECID	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	REW	ID
A	AT	1040 / 2624.36	0 / 0.48	6760. /	1322. /	119930. /	1.19 /	450. /	769. /	769. /	*IS*
B	AT	2650 / 2628.70	1610 / 0.41	6760. / 4.26	1314. / 0.0	143964. / 2629.11	1.00 / 5.14	394. / 0.44	665. / 0.004	665. /	*XS*
C	AT	3720 / 2631.45	1070 / 0.53	6760. / 2.82	1164. / 0.06	120380. / 2631.97	1.01 / 5.81	135. / 0.52	394. / -0.014	394. /	*XS*
D	AT	5095 / 2635.62	1375 / 0.55	6760. / 4.18	1148. / 0.01	124963. / 2636.17	1.03 / 5.89	280. / 0.52	505. / 0.004	505. /	*XS*
E	AT	6020 / 2638.58	925 / 0.65	6760. / 3.01	1049. / 0.05	112451. / 2639.23	1.01 / 6.44	47. / 0.55	260. / 0.001	260. /	*XS*
F-TW	AT	6805 / 2641.58	785 / 1.22	6760. / 3.30	764. / 0.28	96696. / 2642.79	1.00 / 8.85	61. / 0.55	157. / -0.016	157. /	*XS*
===== BEGIN BRIDGE ANALYSIS =====											
BR-FG	AT	6805 / 2641.58	/	6760. /	735. /	90173. /	1.00 /	0. /	92. /	92. /	*R0*
EMBAKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *R6*											
APP-G	AT	7045 / 2642.77	240 / 1.43	6760. / 1.29	706. / 0.10	87634. / 2644.19	1.00 / 9.58	11. / 0.61	102. / 0.000	102. /	*AS*
M = 0.0 / E = 1.00 / K* = 0.01 / 707. / 87830. / 1.00 / 11. / 102. / 2642.78 / 1.42 / / 2644.20 / 9.56 / 0.61 / *AS*											
===== END BRIDGE ANALYSIS =====											
H	AT	7690 / 2646.17	645 / 1.12	6390. / 3.09	784. / 0.0	102725. / 2647.29	1.08 / 8.15	96. / 0.48	182. / 0.000	182. /	*XS*
I	AT	8710 / 2649.58	1020 / 0.46	6390. / 2.75	1212. / 0.0	147288. / 2650.04	1.07 / 5.27	147. / 0.35	318. / 0.001	318. /	*XS*

END OF THIS PROFILE

SUMMARY OF ENCROACHMENTS FOR: COVE CREEK LOWER FLOODWAY A-I
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY A-I 1ST (PROFILE
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 1 OF 1

SECID	CARD 3		FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
	SEQUENCE	TYPE		LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
A	100	1	VHD	CONS	YES	1.00	1.00	*****	319
B	201	0	VHD	YES	YES	1.00	1.00	*****	271
C	301	0	HOR	YES	YES	*****	0.83	*****	259
D	401	0	HOR	YES	YES	*****	0.67	*****	225
E	501	0	HOR	YES	YES	*****	0.87	*****	213
F-TW	600	0	HOR	YES	YES	*****	0.60	*****	96
BR-FG	700	2	N.A.	N.A.	N.A.	*****	0.60	*****	89
RD-FG	800	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-G	900	5	HOR	YES	YES	*****	0.29	*****	91
H	1000	1	VHD	YES	YES	1.00	0.30	*****	86
I	1100	0	VHD	YES	NO	1.00	1.42	*****	171

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

	1	2	3	4	5	6	7	R
1	1	COVE CREEK LOWER	WATAUGA CO.	FLOODWAY	H-AV	67	1 02 99	10
2	2	264603						
3	1000	H	1 27 3 2634	7690 99 99				
4	1001	6390						
5	1005	0 1 26545	11 1 26497	20 1 26460	27 1 26438	27 1 26427		
5	1006	96 2 26400	105 2 26393	110 2 26372	116 2 26356	118 2 26336		
5	1007	123 2 26332	129 2 26332	139 2 26329	143 2 26333	144 2 26359		
5	1008	153 3 26378	162 3 26399	207 3 26414	215 3 26450	219 3 26480		
5	1009	220 3 26499	241 3 26499	300 3 26498	350 3 26511	400 3 26522		
5	1010	433 3 26517	440 3 26552					
6	1015	1 2 055 045	1 2 050 045	1 2 045 050				
3	1100	I	0 19 2 2639	8710 99 99				
5	1105	0 1 26579	12 1 26507	23 1 26473	25 1 26466	46 1 26440		
5	1106	100 1 26452	150 1 26451	200 1 26440	250 2 26427	262 2 26401		
5	1107	264 2 26376	270 2 26372	278 2 26373	290 2 26371	295 2 26373		
5	1108	296 2 26388	305 2 26429	316 2 26487	324 2 26518			
6	1115	1 3 060 045	1 2 055 045					
3	1200	J	0 29 3 2643	10335 99 99				
5	1205	0 1 26644	23 1 26599	31 1 26595	42 1 26528	57 1 26485		
5	1206	100 1 26474	108 1 26448	120 1 26464	139 2 26452	141 2 26442		
5	1207	148 2 26432	156 2 26420	165 2 26420	170 2 26441	171 2 26462		
5	1208	175 3 26499	200 3 26499	300 3 26510	400 3 26404	500 3 26492		
5	1209	555 3 26492	572 3 26538	582 3 26561	606 3 26566	616 3 26550		
5	1210	669 3 26568	709 3 26582	726 3 26609	736 3 26644			
6	1215	2 4 065 050	1 2 055 050	1 2 045 035				
3	1300	K	0 30 3 2649	11705 99 99				
5	1305	0 1 26692	14 1 26539	22 1 26519	27 1 26495	35 1 26518		
5	1306	50 1 26528	100 1 26531	150 1 26539	200 1 26543	250 2 26541		
5	1307	290 2 26513	294 2 26495	295 2 26490	299 2 26482	307 2 26479		
5	1308	315 2 26483	320 2 26491	321 2 26514	326 3 26532	350 3 26540		
5	1309	400 3 26535	450 3 26535	500 3 26534	534 3 26539	553 3 26610		
5	1310	573 3 26596	576 3 26584	579 3 26603	580 3 26620	583 3 26692		
6	1315	1 2 045 040	1 2 050 045	1 2 045 035				
3	1400	L-TW	0 30 3 2651	12858 99 99				
5	1405	0 1 26728	18 1 26718	48 1 26693	100 1 26656	150 1 26626		
5	1406	200 1 26504	250 1 26597	300 1 26595	350 1 26597	400 1 26588		
5	1407	450 1 26596	500 1 26600	550 1 26584	600 1 26577	630 2 26578		
5	1408	636 2 26533	639 2 26522	644 2 26506	649 2 26503	661 2 26502		
5	1409	667 2 26521	669 2 26539	677 3 26579	705 3 26583	722 3 26632		
5	1410	746 3 26633	750 3 26625	757 3 26654	800 3 26685	802 3 26741		
6	1415	1 2 050 045	2 4 055 045	1 2 065 065				
3	1500	RO-LM	2 11 1 2650	12858	0 26569	1 0		
5	1505	0 1 26567	0 1 26530	3 1 26530	6 1 26507	12 1 26495		
5	1506	16 1 26495	18 1 26488	26 1 26505	33 1 26519	34 1 26570		
5	1507	0 -9 26567						

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
6 1515	1	2 055 055						
3 1550	RD-LM 4	19 2 16	1 2	2 2			2	
5 1555	0	1 26724 38	1 26703 88	1 26675 140	1 26639 150	1 26633		
5 1556	200	1 26609 250	1 26599 300	1 26595 350	1 26596 400	1 26600		
5 1557	450	1 26606 500	1 26608 550	1 26598 600	1 26587 647	1 26589		
5 1558	665	2 26591 683	2 26593 735	2 26630 757	2 26634			
3 1600	M-APP 5	29 5 2652	12906 2 4					
5 1605	0	1 26721 50	1 26684 100	1 26635 150	1 26603 200	1 26586		
5 1606	250	1 26580 300	1 26596 350	1 26592 400	1 26594 450	1 26602		
5 1607	500	1 26596 550	1 26577 600	1 26572 614	2 26568 618	3 26536		
5 1608	620	3 26520 626	3 26508 634	3 26503 645	3 26504 648	3 26514		
5 1609	652	4 26542 656	5 26569 670	5 26582 680	5 26620 701	5 26634		
5 1610	725	5 26634 729	5 26624 733	5 26666 740	5 26758			
6 1615	1 2 045 035 2	4 055 045 2	4 055 045 2	4 055 045 1	2 070 050			
3 1700	M	0 34 3 2652	13320 99 99					
5 1705	0	1 26737 13	1 26673 27	1 26614 42	1 26591 56	1 26601		
5 1706	100	1 26596 150	1 26602 200	1 26605 250	1 26613 300	1 26612		
5 1707	352	1 26603 400	1 26604 450	1 26610 500	1 26598 523	1 26573		
5 1708	550	1 26577 585	2 26589 597	2 26564 601	2 26529 605	2 26518		
5 1709	611	2 26512 619	2 26521 624	2 26531 625	2 26543 631	3 26598		
5 1710	650	3 26589 694	3 26584 703	3 26625 713	3 26639 733	3 26652		
5 1711	740	3 26645 747	3 26698 757	3 26716 762	3 26736			
6 1715	2 4 045 040 1	2 055 055 1	2 070 055					
3 1800	0	0 19 3 2656	14370 99 99					
5 1805	0	1 26774 50	1 26642 85	1 26625 100	1 26619 120	2 26602		
5 1806	121	2 26557 126	2 26556 132	2 26554 140	2 26554 145	2 26566		
5 1807	146	2 26571 150	2 26603 158	3 26624 200	3 26613 250	3 26621		
5 1808	281	3 26627 285	3 26647 294	3 26683 314	3 26695			
6 1810	1 2 060 050 2	4 060 050 1	2 055 045					
3 2100	Q-TW 1	23 3 2658	14762 99 99					
4 2101	5370							
5 2105	0	1 26698 14	1 26683 28	1 26609 39	1 26586 39	1 26585		
5 2106	42	1 26573 56	1 26565 70	1 26572 79	1 26586 80	1 26588		
5 2107	93	2 26618 110	2 26628 148	2 26641 203	2 26634 203	2 26634		
5 2108	456	2 26684 475	2 26696 481	3 26692 489	3 26657 539	3 26663		
5 2109	639	3 26691 689	3 26707 739	3 26731				
6 2115	1 2 055 055 1	2 050 040 1	2 065 065					
3 2200	RR-QR 2	16 1 2657	14762 30 26683 1 1					
5 2205	0	1 26683 0	1 26609 4	1 26605 11	1 26592 12	1 26588		
5 2206	17	1 26577 29	1 26574 42	1 26558 49	1 26575 53	1 26587		
5 2207	54	1 26598 58	1 26615 70	1 26613 82	1 26615 82	1 26683		
5 2208	0 -9	26683						
6 2215	2 4 055 040							
3 2220	PR-QR 3	2	7					
5 2225	3	26560 2	26683					

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
	.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....							
3 2250	QR-RD 4	20 4 32		1 3		1 1 1 2		2
5 2255	0	1 26750 100	1 26736 200	1 26722 300	1 26714 400	1 26714 400	1 26714	1 26714
5 2256	500	1 26714 655	2 26713 696	2 26713 737	3 26713 800	3 26713 800	3 26716	3 26716
5 2257	900	3 26716 1000	3 26710 1093	4 26700 1100	4 26663 1150	4 26663 1150	4 26665	4 26665
5 2258	1200	4 26679 1250	4 26691 1300	4 26707 1350	4 26731 1400	4 26731 1400	4 26766	4 26766
3 2300	R 5	40 4 2660	14815 2 4					
5 2305	64	1 26753 65	1 26749 83	1 26746 84	1 26749 100	1 26749 100	1 26751	1 26751
5 2306	150	1 26742 192	1 26718 213	1 26706 245	1 26697 250	1 26697 250	1 26691	1 26691
5 2307	271	1 26653 300	1 26643 350	1 26637 400	1 26637 450	1 26637 450	1 26638	1 26638
5 2308	500	1 26646 535	2 26643 536	3 26634 538	3 26616 543	3 26616 543	3 26586	3 26586
5 2309	547	3 26578 551	3 26576 556	3 26579 560	3 26582 561	3 26582 561	3 26603	3 26603
5 2310	568	4 26634 600	4 26638 650	4 26653 700	4 26652 750	4 26652 750	4 26647	4 26647
5 2311	800	4 26657 850	4 26659 900	4 26663 950	4 26669 1000	4 26669 1000	4 26678	4 26678
5 2312	1050	4 26707 1100	4 26733 1150	4 26742 1200	4 26741 1226	4 26741 1226	4 26759	4 26759
6 2315	1 2 050 040	1 2 055 055	1 2 055 055	1 2 050 040				
3 2400	S 0	20 3 2661	15615 99 99					
5 2405	0	1 26790 10	1 26711 21	1 26657 50	2 26643 54	2 26643 54	2 26607	2 26607
5 2406	59	2 26598 68	2 26601 76	2 26606 79	2 26614 80	2 26614 80	2 26629	2 26629
5 2407	84	3 26661 100	3 26664 150	3 26663 200	3 26664 250	3 26664 250	3 26672	3 26672
5 2408	300	3 26669 350	3 26685 400	3 26712 450	3 26769 500	3 26769 500	3 26798	3 26798
6 2415	1 2 080 065	1 2 060 060	1 2 045 040					
3 2500	T-TW 0	19 3 2663	16324 99 99					
5 2505	0	1 26793 10	1 26767 22	1 26699 55	1 26679 73	1 26679 73	2 26679	2 26679
5 2506	79	2 26669 86	2 26646 89	2 26627 92	2 26617 97	2 26617 97	2 26617	2 26617
5 2507	103	2 26621 105	2 26626 108	2 26644 115	3 26689 139	3 26689 139	3 26708	3 26708
5 2508	162	3 26747 177	3 26765 200	3 26783 220	3 26796	3 26796		
6 2515	1 2 075 060	1 2 055 050	2 4 065 050					
3 2600	RO-TU 2	20 1 2663	16324 15 26783 1 1					
5 2605	0	1 26783 0	1 26771 6	1 26757 15	1 26705 18	1 26705 18	1 26694	1 26694
5 2606	31	1 26682 46	1 26676 52	1 26641 53	1 26640 56	1 26640 56	1 26620	1 26620
5 2607	65	1 26618 75	1 26626 78	1 26633 78	1 26634 83	1 26634 83	1 26669	1 26669
5 2608	93	1 26695 104	1 26732 108	1 26760 108	1 26783 0	1 26783 0	-9 26783	-9 26783
6 2615	1 2 060 060							
3 2620	PR-TU 3	4		4				
5 2625	2	26624 2	26680 4	26680 4	26782 4	26782 4		
3 2700	APP-U 5	24 5 2664	16467 1 5					
5 2705	0	1 26795 4	1 26794 23	1 26724 41	1 26686 42	1 26686 42	2 26686	2 26686
5 2706	76	3 26680 82	3 26634 83	3 26633 87	3 26625 95	3 26625 95	3 26626	3 26626
5 2707	100	3 26625 106	3 26634 107	3 26640 112	4 26683 126	4 26683 126	4 26689	4 26689
5 2708	150	5 26694 200	5 26705 235	5 26710 235	5 26726 242	5 26726 242	5 26748	5 26748
5 2709	250	5 26750 300	5 26780 356	5 26812 373	5 26820	5 26820		
6 2715	1 2 080 080	1 2 080 080	1 2 060 060	1 2 055 045	1 2 055 045	1 2 055 045		
3 2800	V 0	18 3 2666	17170 99 99					
5 2805	0	1 26808 15	1 26710 34	2 26698 39	2 26679 41	2 26679 41	2 26668	2 26668
5 2806	42	2 26666 44	2 26657 48	2 26649 52	2 26653 58	2 26653 58	2 26666	2 26666

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
5	2807	58	2 26668	62	3 26709	86	3 26701	100 3 26717 150 3 26719
5	2809	200	3 26732	250	3 26780	275	3 26811	
6	2815	1 2 080	065 1 2 055	055 1 2 050	040			
3	2900 W	1 24	3 2673	18375	99 99			
4	2901	5200						
5	2905	0	1 26886	43	1 26817	126	1 26790	150 1 26780 187 1 26771
5	2906	207	2 26768	223	2 26727	224	2 26725	226 2 26716 233 2 26715
5	2907	245	2 25717	249	2 26726	250	2 26730	251 2 26753 267 3 26771
5	2908	300	3 26771	350	3 26767	400	3 26776	450 3 26780 480 3 26841
5	2909	525	3 26831	551	3 26836	600	3 26842	650 3 26892
6	2915	1 2 045	040 1 2 065	050 1 2 045	040			
3	3000 X-TW	0 21	3 2675	19382	99 99			
5	3005	0	1 26890	16	1 26888	50	1 26877	55 1 26871 60 1 26846
5	3006	73	1 26807	90	2 26813	94	2 26763	98 2 26751 100 2 26744
5	3007	106	2 26743	116	2 26740	122	2 26751	123 2 26760 129 3 26798
5	3008	150	3 26802	200	3 26807	250	3 26846	268 3 26864 279 3 26863
5	3009	300	3 26896					
6	3015	1 2 060	060 1 2 055	045 1 2 045	040			
3	3100 RO-XY	2 22	1 2676	19382		0 26855	4 0	
5	3105	0	1 26861	0	1 26817	7	1 26807	18 1 26808 18 1 26793
5	3106	25	1 26757	26	1 26752	28	1 26742	37 1 26749 46 1 26749
5	3107	46	1 26765	51	1 26771	55	1 26783	63 1 26798 70 1 26800
5	3108	77	1 26804	77	1 26861	58	1 26861	58 1 26850 19 1 26850
5	3109	19	1 26861	0	-9 26861			
6	3115	1 2 055	055					
3	3120 PR-XY	3 8				3		
5	3125	0	26785	1	26787	2	26787	2 26817 3 26817
5	3126	3	26850	2	26850	2	26861	
3	3150 RO-XY	4 7	3 30		1 3	1 1 1		2
5	3155	0	1 26900	50	1 26881	83	2 26876	160 3 26877 200 3 26870
5	3156	300	3 26862	300	3 26900			
3	3200 APP-Y	5 22	5 2677	19502	1 5			
5	3205	0	1 26900	4	1 26884	8	1 26886	22 1 26887 32 1 26871
5	3206	50	2 26830	53	2 26823	68	3 26822	74 3 26770 79 3 26758
5	3207	81	3 26753	85	3 26748	93	3 26752	97 3 26759 98 3 26768
5	3208	103	4 26794	124	4 26785	127	5 26786	150 5 26790 166 5 26828
5	3209	180	5 26865	200	5 26905			
6	3215	1 2 055	045 1 2 055	045 1 2 055	055 1 2 045	035 1 2 045	035	
3	3280 YPRIM	0 20	3 2677	19605	99 99			
5	3285	0	1 26903	4	1 26887	8	1 26889	22 1 26890 32 1 26874
5	3286	53	1 26826	68	2 26825	74	2 26773	79 2 26761 81 2 26756
5	3287	85	2 26753	93	2 26755	97	2 26762	98 2 26771 103 3 26797
5	3288	124	3 26788	150	3 26793	166	3 26831	180 3 26868 200 3 26908
6	3295	1 2 055	045 1 2 055	055 1 2 045	035			
3	3300 Z-DAM	0 23	1 2688	19607	99 99			

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8			
5	3305	0	1 26960	42	1 26936	52	1 26914	55	1 26917	69	1 26922
5	3306	86	1 26935	125	1 26928	136	1 26898	142	1 26876	163	1 26870
5	3307	179	1 26867	184	1 26867	190	1 26867	198	1 26866	210	1 26868
5	3308	222	1 26869	230	1 26869	247	1 26869	252	1 26880	269	1 26991
5	3309	273	1 27003	283	1 27010	287	1 27032				
6	3315	1	2 035 035								
3	3400	AA	0 29	3 2687	20320	99 99					
5	3405	0	1 27016	19	1 26982	37	1 26991	45	1 26987	100	1 26974
5	3406	112	1 26968	121	1 26947	140	1 26935	152	1 26922	165	1 26918
5	3407	190	1 26921	194	1 26912	198	1 26888	202	2 26898	216	2 26882
5	3408	220	2 26868	224	2 26857	239	2 26860	251	2 26865	263	2 26867
5	3409	273	2 26863	279	2 26864	280	2 26883	288	3 26902	300	3 26902
5	3410	350	3 26902	358	3 26913	372	3 26982	381	3 27014		
6	3415	1	2 060 050	1	2 045 040	1	2 050 040				
3	3500	AR-TW	0 30	3 2686	20881	99 99					
5	3505	0	1 27012	6	1 26992	14	1 26971	27	1 26955	41	1 26954
5	3506	48	1 26946	52	1 26926	100	1 26901	150	1 26898	200	2 26908
5	3507	204	2 26903	204	2 26879	207	2 26867	212	2 26857	223	2 26859
5	3508	235	2 26854	238	2 26851	240	2 26868	240	2 26881	247	2 26886
5	3509	251	2 26903	251	3 26927	300	3 26931	381	3 26946	400	3 26947
5	3510	446	3 26943	484	3 26969	491	3 26979	494	3 26994	503	3 27023
6	3515	1	2 045 035	1	2 055 050	1	2 045 035				
3	3600	RR-OP	2 12	1 2687	20881		15 26924	1 10			
5	3605	0	1 26924	0	1 26912	6	1 26913	11	1 26906	12	1 26897
5	3606	14	1 26874	19	1 26859	32	1 26857	42	1 26852	48	1 26864
5	3607	48	1 26924	0	-9 26924						
6	3608	1	2 055 055								
3	3620	PIER	3 4				5				
5	3625	1	26864	1	26912	2	26912	2	26924		
3	3650	ROAD	4 11	3 36	1	3	1 1 1	2			
5	3655	0	1 26957	18	1 26956	59	1 26919	100	1 26922	155	2 26947
5	3656	203	3 26946	300	3 26941	400	3 26952	500	3 26964	600	3 26991
5	3657	648	3 27009								
3	3700	AC-AP	5 27	4 2687	20965	1 4					
5	3705	0	1 27013	13	1 26992	13	1 26947	15	1 26951	20	1 26957
5	3706	37	1 26958	43	1 26950	48	1 26928	100	1 26915	150	1 26908
5	3707	153	2 26914	155	2 26907	158	2 26893	162	2 26888	164	2 26871
5	3708	167	2 26858	171	2 26854	175	2 26854	181	2 26850	185	2 26850
5	3709	190	2 26872	201	3 26932	204	4 26949	214	4 26963	234	4 26972
5	3710	250	4 26974	253	4 27013						
6	3715	1	2 040 035	1	2 035 050	1	2 035 050	1	2 035 035		
3	3800	AD	0 17	3 2687	21615	99 99					
5	3805	0	1 27018	7	1 26979	14	1 26948	27	1 26931	55	1 26912
5	3806	65	2 26903	67	2 26869	75	2 26855	86	2 26860	94	2 26867
5	3807	96	2 26869	101	2 26899	107	3 26930	144	3 26923	144	3 26940

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
5 3808	0	175	3 26995	196	3 27013			
6 3815	1	2 045 035	1	2 055 045	1	2 050 040		
3 3900	AE	0	18 2 2688	22180	99 99			
5 3905		0	1 27026	20	1 26992	50	1 26961	100 1 26940 150 1 26931
5 3906		200	1 26933	250	1 26925	263	2 26921	268 2 26888 271 2 26882
5 3907		275	2 26877	283	2 26878	291	2 26874	295 2 26882 297 2 26905
5 3908		303	2 26956	318	2 26971	333	2 27026	
6 3915	1	2 040 035	1	2 060 050				
3 4000	AF	1	20 3 2693	23325	99 99			
4 4001	4640							
5 4005		0	1 27065	5	1 27023	10	1 27031	28 1 27033 40 2 27020
5 4006		45	2 26999	50	2 26963	54	2 26943	56 2 26914 60 2 26911
5 4007		65	2 26911	69	2 26917	75	2 26923	78 3 26966 115 3 26973
5 4008		150	3 26975	200	3 26982	250	3 27011	300 3 27026 330 3 27063
6 4015	1	2 040 030	1	2 055 050	1	2 045 035		
3 4100	COMP	0	16 3 2693	23349	99 99			
5 4105		0	1 27036	17	1 27039	45	1 27030	45 1 27035 50 2 27034
5 4106		50	2 26923	54	2 26910	61	2 26913	70 2 26917 70 3 27032
5 4107		74	3 27031	74	3 27024	106	3 27006	150 3 26999 200 3 27015
5 4108		250	3 27055					
6 4115	1	2 045 045	1	2 055 055	1	2 045 045		
3 4150	AG--	1 0	19 4 2693	23369	99 99			
5 4155		0	1 27068	6	1 27038	10	1 27043	29 1 27043 43 2 27024
5 4156		50	2 26991	59	2 26959	81	3 26966	87 3 26950 88 3 26926
5 4157		95	3 26918	100	3 26915	104	3 26911	109 3 26917 110 3 26926
5 4158		113	4 26982	121	4 26996	193	4 27024	224 4 27061
6 4165	1	2 040 020	1	2 060 050	1	2 055 045	1	2 045 040
3 4200	AG	0	19 4 2693	23411	99 99			
5 4205		0	1 27069	6	1 27039	10	1 27044	29 1 27044 43 2 27025
5 4206		50	2 26992	59	2 26960	81	3 26967	87 3 26951 88 3 26927
5 4207		95	3 26919	100	3 26916	104	3 26912	109 3 26918 110 3 26927
5 4208		113	4 26983	121	4 26997	193	4 27025	224 4 27062
6 4215	1	2 040 020	1	2 060 050	1	2 055 045	1	2 045 040
3 4300	AH	0	18 3 2694	23710	99 99			
5 4305		0	1 27077	9	1 27053	14	1 27030	19 1 27028 36 1 27021
5 4306		44	1 27008	50	1 26986	76	2 26961	79 2 26930 83 2 26922
5 4307		89	2 26921	95	2 26925	102	2 26929	104 2 26942 107 3 26967
5 4308		115	3 26987	138	3 27005	196	3 27078	
6 4315	1	2 060 050	1	2 055 040	1	2 045 040		
3 4400	AI-TW	0	20 3 2695	23915	99 99			
5 4405		0	1 27080	7	1 27033	10	1 27015	15 1 27019 32 2 27021
5 4406		45	2 26993	57	2 26974	80	3 26975	86 3 26967 92 3 26946
5 4407		93	3 26940	95	3 26934	100	3 26931	107 3 26930 111 3 26938
5 4408		114	3 26965	120	3 27007	125	3 27046	137 3 27076 147 3 27086
6 4415	1	2 035 035	1	2 060 045	1	2 055 045		

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
3 4500 RR-OP	2	11	1	2695	23915	15	27019	1 0
5 4505	0	1	27019	0	1 26955	2	1 26951	3 1 26943 4 1 26938
5 4506	16	1	26934	23	1 26931	27	1 26935	28 1 26955 28 1 27019
5 4507	0	-9	27019					
6 4515	1	2	045 045					
3 4550 ROAD	4	9	2 16	1	2	2	2	2
5 4555	0	1	27020	16	1 27025	70	1 27043	84 2 27043 96 2 27043
5 4556	120	2	27070	140	2 27093	160	2 27104	180 2 27112
3 4600 AJ-AP	5	19	6 2695	23963	3	5		
5 4605	-5	1	27128	0	1 27084	8	1 27010	11 1 27023 30 2 27028
5 4606	60	2	26982	71	3 26965	73	3 26958	74 3 26940 75 4 26938
5 4607	77	4	26934	84	4 26932	94	4 26933	103 5 26937 107 5 26939
5 4608	112	6	26980	140	6 27041	160	6 27084	170 6 27115
6 4615	1	2	035 035	1	2 065 050	1	2 050 040	1 2 050 040 1 2 050 040
6 4616	1	2	045 035					
3 4700 AK	0	18	2 2698	24820	99 99			
5 4705	0	1	27120	6	1 27112	9	1 27104	18 1 26999 23 1 26986
5 4706	25	1	26974	30	1 26966	33	1 26964	37 1 26969 40 1 26977
5 4707	52	2	27028	80	2 27019	150	2 27036	200 2 27058 250 2 27064
5 4708	300	2	27078	350	2 27104	375	2 27126	
6 4715	1	2	065 060	1	2 045 035			
3 4800 AL	0	20	3 2701	25430	99 99			
5 4805	0	1	27148	4	1 27128	25	1 27105	42 1 27064 52 1 27044
5 4806	74	2	27041	78	2 27004	82	2 26994	89 2 26999 95 2 27003
5 4807	99	2	27005	102	2 27015	112	2 27033	119 3 27057 150 3 27046
5 4808	200	3	27043	250	3 27044	300	3 27040	311 3 27051 357 3 27159
6 4815	1	2	075 055	1	2 055 050	1	2 045 035	
3 4900 AM	0	18	3 2703	25875	99 99			
5 4905	0	1	27170	36	1 27137	52	1 27129	100 1 27097 126 1 27069
5 4906	150	1	27061	188	2 27041	193	2 27023	207 2 27019 211 2 27010
5 4907	218	2	27011	220	2 27016	225	3 27057	250 3 27067 300 3 27080
5 4908	350	3	27107	375	3 27134	396	3 27168	
6 4915	2	4	065 045	1	2 055 050	1	2 045 035	
3 4950 AM+	5 0	18	3 2704	25988	99 99			
5 4955	0	1	27175	36	1 27142	52	1 27134	100 1 27102 126 1 27074
5 4956	150	1	27066	188	2 27046	193	2 27028	207 2 27024 211 2 27015
5 4957	218	2	27016	220	2 27021	225	3 27062	250 3 27072 300 3 27085
5 4958	350	3	27112	375	3 27139	396	3 27173	
6 4965	2	4	065 045	1	2 055 050	1	2 045 035	
3 5000 BRIDG	2	15	1 2703	25988	15	27083	1 0	
5 5005	0	1	27084	0	1 27043	5	1 27042	5 1 27031 7 1 27027
5 5006	11	1	27025	18	1 27016	26	1 27020	33 1 27027 35 1 27032
5 5007	38	1	27045	40	1 27047	40	1 27085	20 1 27081 0 -9 27084
6 5015	1	2	055 055					
3 5050 ROAD	4	14	2 16	1	2	2	2	2

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8			
5	5055	0	1 27178	50	1 27140	100	1 27114	150	1 27101	200	1 27099
5	5056	220	2 27098	241	2 27096	250	2 27089	300	2 27062	312	2 27066
5	5057	362	2 27072	412	2 27097	447	2 27145	462	2 27182		
3	5100 AN	5	22 4 2705	26048	1	3					
5	5105	0	1 27179	22	1 27150	50	1 27125	86	1 27088	91	1 27065
5	5106	92	2 27063	100	2 27048	101	2 27037	105	2 27031	109	2 27029
5	5107	114	2 27028	121	2 27038	125	2 27054	132	3 27062	133	3 27063
5	5108	140	4 27080	150	4 27069	200	4 27066	250	4 27072	300	4 27097
5	5109	335	4 27145	350	4 27182						
6	5115	1	2 055 045	1	2 055 045	1	2 055 045	1	2 045 030		
3	5200 AO	0	17 2 2707	26760	99	99					
5	5205	0	1 27205	127	1 27111	150	1 27103	165	2 27097	169	2 27062
5	5206	173	2 27058	181	2 27053	185	2 27053	189	2 27061	194	2 27093
5	5207	200	2 27118	209	2 27140	213	2 27147	214	2 27153	225	2 27170
5	5208	227	2 27185	247	2 27204						
6	5215	1	2 045 035	1	2 055 050						
3	5300 AP	0	22 4 2712	27865	99	99					
5	5305	0	1 27271	40	1 27261	88	1 27259	100	1 27257	150	1 27249
5	5306	200	1 27242	250	1 27237	300	1 27238	350	2 27235	400	2 27202
5	5307	450	3 27152	451	3 27142	456	3 27138	457	3 27119	465	3 27122
5	5308	471	3 27118	483	3 27109	488	4 27128	550	4 27162	556	4 27211
5	5309	557	4 27236	590	4 27270						
6	5315	1	2 035 035	1	2 050 040	1	2 055 045	1	2 055 050		
3	5400 AO-TW	0	22 4 2716	28514	99	99					
5	5405	0	1 27291	30	1 27263	44	1 27259	60	1 27246	78	1 27217
5	5406	94	1 27195	105	2 27184	111	2 27169	112	2 27149	118	2 27144
5	5407	125	2 27141	131	2 27142	135	2 27148	137	2 27162	140	2 27208
5	5408	147	3 27235	167	3 27233	173	3 27230	178	4 27268	200	4 27276
5	5409	250	4 27288	267	4 27291						
6	5415	1	2 065 045	1	2 055 045	1	2 035 035	1	2 050 050		
3	5500 BRIDG	2	20 1 2717	28514		15	27223	2	0		
5	5505	0	1 27224	0	1 27202	5	1 27197	8	1 27186	13	1 27160
5	5506	15	1 27152	18	1 27151	20	1 27152	20	1 27164	26	1 27158
5	5507	27	1 27153	31	1 27144	37	1 27134	44	1 27126	45	1 27142
5	5508	45	1 27207	47	1 27208	47	1 27221	23	1 27224	0	-9 27224
6	5515	1	2 050 050								
3	5520 PIER	3	2			3					
5	5525	1	27164	1	27224						
3	5550 ROAD	4	9 3 28	1	3	1	1 1	2			
5	5555	0	1 27288	27	1 27274	50	1 27260	92	2 27242	139	3 27239
5	5556	150	3 27242	200	3 27252	250	3 27273	296	3 27296		
3	5600 AR	5	20 3 2716	28602	1	3					
5	5605	0	1 27300	6	1 27279	27	1 27287	44	1 27285	50	1 27250
5	5606	56	1 27212	79	2 27202	94	2 27170	96	2 27152	99	2 27143
5	5607	107	2 27146	114	2 27148	118	2 27153	119	2 27174	126	3 27201

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
5	5608	137	3 27215	148	3 27230	162	3 27259	200 3 27283 216 3 27301
6	5615	1 2 050 040	1 2 050 055	1 2 045 040				
3	5700	AS-TW 0 16	3 2716	28785 99 99				
5	5705	0 1 27307	4 1 27294	27 1 27280	42 2 27267	46 2 27238		
5	5706	52 2 27190	58 2 27166	59 2 27161	62 2 27150	66 2 27147		
5	5707	71 2 27151	75 2 27165	78 3 27197	122 3 27217	144 3 27276		
5	5708	172 3 27307						
6	5715	1 2 035 035	1 2 055 050	1 2 045 045				
3	5800	BRIDG 2 15	1 2717	28785 30 27268	1 1			
5	5805	0 1 27265	0 1 27168	1 1 27165	1 1 27162	4 1 27159		
5	5806	12 1 27154	18 1 27157	23 1 27162	23 1 27169	25 1 27192		
5	5807	31 1 27194	43 1 27205	47 1 27202	47 1 27271	0 -9 27265		
6	5815	1 2 055 055						
3	5820	PIER 3 2		2				
5	5825	1 27175	1 27268					
3	5850	ROAD 4 7	3 28	1 3	1 1 1	2		
5	5855	0 1 27311	6 1 27295	50 2 27287	98 3 27289	150 3 27279		
5	5856	181 3 27279	200 3 27311					
3	5900	AT 5 23	4 2718	28890 1 3				
5	5905	0 1 27314	9 1 27304	16 1 27253	21 1 27216	22 2 27212		
5	5906	27 2 27193	31 2 27170	37 2 27166	43 2 27165	49 2 27169		
5	5907	54 2 27172	57 2 27180	64 2 27191	69 3 27212	71 4 27221		
5	5908	76 4 27212	97 4 27219	107 4 27240	134 4 27273	158 4 27280		
5	5909	163 4 27268	172 4 27295	185 4 27312				
6	5915	1 2 055 045	1 2 055 045	1 2 055 045	1 2 045 040			
3	6000	AU 0 17	1 2722	29625 99 99				
5	6005	0 1 27358	8 1 27297	19 1 27249	31 1 27214	36 1 27214		
5	6006	46 1 27211	54 1 27209	59 1 27215	61 1 27230	67 1 27248		
5	6007	85 1 27275	112 1 27307	127 1 27338	145 1 27335	150 1 27343		
5	6008	157 1 27346	160 1 27359					
6	6015	1 2 050 050						
3	6100	AV 1 18	4 2725	30015 99 99				
4	6101	4460						
5	6105	0 1 27392	19 1 27336	21 2 27303	28 2 27282	35 3 27306		
5	6106	57 4 27291	62 4 27261	66 4 27243	69 4 27238	75 4 27236		
5	6107	83 4 27237	88 4 27244	91 4 27262	96 4 27285	100 4 27304		
5	6108	106 4 27361	116 4 27389	128 4 27387				
6	6115	1 2 055 055	1 2 055 055	1 2 050 035	1 2 060 050			

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BO-LM	WARNING	STATION	11	IS LESS THAN	STATION	10	
BR-QR	WARNING	STATION	16	IS LESS THAN	STATION	15	
BO-TU	WARNING	STATION	20	IS LESS THAN	STATION	19	
BO-XY	WARNING	STATION	18	IS LESS THAN	STATION	17	
BO-XY	WARNING	STATION	20	IS LESS THAN	STATION	19	
BO-XY	WARNING	STATION	22	IS LESS THAN	STATION	21	
BR-OP	WARNING	STATION	12	IS LESS THAN	STATION	11	
BR-OP	WARNING	STATION	11	IS LESS THAN	STATION	10	
BRIDG	WARNING	STATION	14	IS LESS THAN	STATION	13	
BRIDG	WARNING	STATION	15	IS LESS THAN	STATION	14	
BRIDG	WARNING	STATION	19	IS LESS THAN	STATION	18	
BRIDG	WARNING	STATION	20	IS LESS THAN	STATION	19	
BRIDG	WARNING	STATION	15	IS LESS THAN	STATION	14	

INPUT SUMMARY FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-4V

67 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 67 TYPE 3 CARDS

KEPT 67 CROSS SECTIONS FOR EDITING

67 " " VALID FOR PROPERTY COMPUTATIONS

67 " " " " PROFILE "

*** INPUT CARD PRINTOUT ***

1	2	3	4	5	6	7	8
9 90100	1000	80	180	264587			
9 90110	1100	130	315	264816			
9 90120	1200	100	440	265204			
9 90130	1300	160	465	265589			
9 90140	1400	535	714	266077			
9 90160	1600	380	679	266180			
9 90170	1700	240	660	266255			
9 90180	1800	100	241	266576			
9 90210	2100	16	205	266737			
9 90230	2300	500	740	266881			
9 90240	2400	10	330	266959			
9 90250	2500	17	151	267288			
9 90270	2700	60	185	267558			
9 90280	2800	34	62	267673			
9 90290	2900	207	267	268006			
9 90300	3000	90	129	268409			
9 90320	3200	68	103	268731			
9 90328	3280	68	103	268746			
9 90330	3300	132	257	269101			
9 90340	3400	202	288	269517			
9 90350	3500	200	251	269588			
9 90370	3700	153	204	269593			
9 90380	3800	65	107	269758			
9 90390	3900	263	303	269868			
9 90400	4000	40	78	270084			
9 90410	4100	44	219	270304			
9 90415	4150	81	113	270396			
9 90420	4200	81	113	270406			
9 90430	4300	76	107	270462			
9 90440	4400	80	125	270512			
9 90460	4600	71	112	270708			
9 90470	4700	9	52	270808			
9 90480	4800	74	119	270891			
9 90490	4900	188	225	270968			
9 90495	4950	188	225	271027			
9 90510	5100	86	140	271059			
9 90520	5200	84	211	271430			
9 90530	5300	450	486	272100			
9 90540	5400	105	147	272358			
9 90560	5600	79	126	272668			
9 90570	5700	42	78	272721			
9 90590	5900	21	71	272968			
9 90600	6000	19	67	273125			
9 90610	6100	19	103				
9 99994							

FLOODWAY H-AV

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
M-APP	KU/KD < 0.7 OR > 1.4		ALERTED USER
M-APP	QRD > QT		ASSUMED WSU = H1N
O	KU/KD < 0.7 OR > 1.4		ALERTED USER
Q-TW	KU/KD < 0.7 OR > 1.4		ALERTED USER
T-TW	KU/KD < 0.7 OR > 1.4		ALERTED USER
APP-U	KU/KD < 0.7 OR > 1.4		ALERTED USER
APP-Y	WSU > BELMX (1)		CHECKED QBO (2)
Z-DAM	WS NOT FOUND BETWEEN	WS = 2687.07 & WS = 2703.20	USED DEL = 0.25
Z-DAM	WS NOT FOUND BETWEEN	WS = 2687.07 & WS = 2703.20	USED WSMIN = WSC
Z-DAM	WS NOT FOUND		ASSUMED WS = WSC
AA	KU/KD < 0.7 OR > 1.4		ALERTED USER
AB-TW	KU/KD < 0.7 OR > 1.4		ALERTED USER
AC-API	QRD > QT		ASSUMED WSU = H1N
AE	KU/KD < 0.7 OR > 1.4		ALERTED USER
AF	KU/KD < 0.7 OR > 1.4		ALERTED USER
COMP	WS NOT FOUND BETWEEN	WS = 2701.99 & WS = 2705.50	USED DEL = 0.25
COMP	WS NOT FOUND BETWEEN	WS = 2701.99 & WS = 2705.50	USED WSMIN = WSC
COMP	WS NOT FOUND		ASSUMED WS = WSC
AH	KU/KD < 0.7 OR > 1.4		ALERTED USER
AJ-API	H1N TOO LOW		USED H1N = WSD+0.01
AJ-API	MAX QRD < QT (3)		CHECKED QRD
AM	KU/KD < 0.7 OR > 1.4		ALERTED USER
AN	KU/KD < 0.7 OR > 1.4		ALERTED USER
AN	QRD > QT		ASSUMED WSU = H1N
AO	KU/KD < 0.7 OR > 1.4		ALERTED USER
AQ-TW	KU/KD < 0.7 OR > 1.4		ALERTED USER

AR ; KU/KD < 0.7 OR > 1.4 ;

AR ; MAX QBO < QT (3) ;

AR ; MIN QTC > QT (3) ;

AT ; KU/KD < 0.7 OR > 1.4 ;

AT ; MAX QBO < QT (3) ;

AU ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

ALERTED USER

CHECKED GRD

ASSUMED WSU = HIN

ALERTED USER

CHECKED GRD

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
 PAGE 1 OF 5, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY H-AV

SECID	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	LEW	REW	REMARKS					
H	AT	7690	/	0	/	6390	/	854	/	112930	/	1.14	/	80	/	180	
		2646.03	/	0.99	/		/	2647.02	/	7.48	/	0.47	/		/		*IS*
I	AT	8710	/	1020	/	6390	/	1206	/	140944	/	1.11	/	130	/	315	
		2649.15	/	0.48	/	2.62	/	0.0	/	2649.64	/	5.30	/	0.36	/	0.001	*XS*
J	AT	10335	/	1625	/	6390	/	1341	/	129607	/	1.10	/	100	/	440	
		2652.88	/	0.39	/	3.63	/	0.0	/	2653.27	/	4.77	/	0.43	/	0.001	*XS*
K	AT	11705	/	1370	/	6390	/	1145	/	106276	/	1.05	/	160	/	465	
		2656.88	/	0.51	/	4.06	/	0.06	/	2657.39	/	5.58	/	0.46	/	-0.000	*XS*
L-TW	AT	12858	/	1153	/	6390	/	875	/	89153	/	1.36	/	535	/	714	
		2661.55	/	1.13	/	4.97	/	0.31	/	2662.67	/	7.30	/	0.57	/	0.003	*XS*
===== BEGIN BRIDGE ANALYSIS =====																	
BO-LM	AT	12858	/		/	0	/	211	/	11207	/	1.00	/	0	/	34	
		2657.00	/	0.0	/	...	/	3...	/	(-0.001)	/	0.0	/	0.0	/		*80*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 7121. / RIGHT 709. / =====																	
M-APP	AT	12906	/	48	/	6390	/	1356	/	155067	/	1.23	/	380	/	679	
		2662.39	/	0.42	/	0.14	/	0.0	/	2662.81	/	4.71	/	0.38	/	-0.001	*AS*
M = **** / E = **** / K* = **** / 1356. / 155067. / 1.23 / 380. / 679. / 2662.39 / 0.42 / / 2662.81 / 4.71 / 0.38 / *AS*																	
===== END BRIDGE ANALYSIS =====																	
N	AT	13320	/	414	/	6390	/	1430	/	130035	/	1.07	/	340	/	660	
		2663.32	/	0.33	/	0.84	/	0.0	/	2663.65	/	4.47	/	0.39	/	0.000	*XS*
O	AT	14370	/	1050	/	6390	/	881	/	90928	/	1.07	/	100	/	241	
		2666.08	/	0.88	/	3.63	/	0.27	/	2667.55	/	7.25	/	0.49	/	0.002	*XS*
Q-TW	AT	14762	/	392	/	5370	/	1258	/	138979	/	1.01	/	16	/	205	
		2668.34	/	0.29	/	1.07	/	0.0	/	2668.63	/	4.27	/	0.26	/	0.000	*XS*
===== BEGIN BRIDGE ANALYSIS =====																	
RR-QR	AT	14762	/		/	4047	/	626	/	63152	/	1.00	/	0	/	82	
		2668.30	/	0.65	/	...	/	3...	/	(0.047)	/	6.47	/	0.38	/		*R0*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 1353. / =====																	
R	AT	14815	/	53	/	5370	/	1067	/	99632	/	1.03	/	500	/	740	
		2668.39	/	0.41	/	0.11	/	0.06	/	2668.80	/	5.03	/	0.43	/	-0.001	*AS*
M = **** / E = **** / K* = **** / 1226. / 124517. / 1.02 / 500. / 740. / 2669.05 / 0.30 / / 2669.36 / 4.38 / 0.36 / *AS*																	
===== END BRIDGE ANALYSIS =====																	
S	AT	15615	/	800	/	5370	/	1455	/	131458	/	1.05	/	11	/	330	
		2670.55	/	0.22	/	1.41	/	0.0	/	2670.78	/	3.69	/	0.33	/	0.09	*XS*

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
 PAGE 2 OF 5, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

*** FLOODWAY ANALYSIS *** FLOODWAY H-AV

=====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW							
WS	ELEV	HV	HF	HE	EG	V	FN	ACC	ID							
T-TW	AT	16324	/	709	/	5370.	/	643.	/	56834.	/	1.36	/	17.	/	150.
		2672.67	/	1.47	/	2.74	/	0.63	/	2674.14	/	8.35	/	0.67	/	0.001

=====

BEGIN BRIDGE ANALYSIS

BO-TU	AT	16324	/		/	5370.	/	522.	/	41004.	/	1.00	/	11.	/	102.
		2672.67	/	1.65	/	...	/	1.057	/	10.29	/	0.74	/		/	*BO*

NO. EMBANKMENT CROSS SECTION

APP-U	AT	16467	/	143	/	5370.	/	843.	/	82052.	/	1.11	/	60.	/	185.
		2674.32	/	0.70	/	0.88	/	0.0	/	2675.02	/	6.37	/	0.40	/	-0.000

M = 0.18 / E = 0.0 / K* = 0.45 / 957. / 100124. / 1.11 / 60. / 185.
 2675.23 / 0.54 / / 2675.77 / 5.61 / 0.33 / *AS*

END BRIDGE ANALYSIS

V	AT	17170	/	703	/	5370.	/	913.	/	102591.	/	1.01	/	34.	/	170.
		2677.21	/	0.54	/	1.97	/	0.0	/	2677.75	/	5.88	/	0.45	/	0.002

W	AT	18375	/	1205	/	5200.	/	864.	/	85163.	/	1.01	/	207.	/	372.
		2681.05	/	0.57	/	3.85	/	0.01	/	2681.62	/	6.02	/	0.42	/	0.005

X-TW	AT	19382	/	1007	/	5200.	/	609.	/	73126.	/	1.04	/	90.	/	177.
		2685.11	/	1.19	/	4.37	/	0.31	/	2686.30	/	8.54	/	0.53	/	0.001

BEGIN BRIDGE ANALYSIS

BO-XY	AT	19382	/		/	4856.	/	552.	/	34440.	/	1.00	/	0.	/	77.
		2686.10	/	1.21	/	...	/	0.032	/	8.80	/	0.58	/		/	*BO*

EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 312. / *RG*

APP-Y	AT	19502	/	120	/	5200.	/	686.	/	86947.	/	1.08	/	68.	/	155.
		2685.86	/	0.96	/	0.51	/	0.0	/	2686.83	/	7.58	/	0.37	/	0.017

M = **** / E = **** / K* = **** / 792. / 109237. / 1.10 / 68. / 155.
 2687.07 / 0.74 / / 2687.81 / 6.57 / 0.29 / *AS*

END BRIDGE ANALYSIS

YPRIM	AT	19605	/	103	/	5200.	/	783.	/	107141.	/	1.08	/	68.	/	155.
		2687.32	/	0.74	/	0.24	/	0.00	/	2688.07	/	6.64	/	0.47	/	0.014

Z-DAM	AT	19607	/	2	/	5200.	/	473.	/	48531.	/	1.00	/	132.	/	257.
		2691.01	/	1.88	/	****	/	****	/	2692.89	/	11.00	/	0.99	/	****

AA	AT	20320	/	713	/	5200.	/	945.	/	128688.	/	1.05	/	202.	/	330.
		2695.49	/	0.49	/	3.09	/	0.0	/	2695.98	/	5.50	/	0.36	/	-0.000

AB-TW	AT	20881	/	561	/	5200.	/	675.	/	76580.	/	1.01	/	200.	/	294.
		2696.81	/	0.93	/	1.54	/	0.22	/	2697.74	/	7.70	/	0.45	/	0.000

BEGIN BRIDGE ANALYSIS

BR-OP	AT	20881	/		/	0.	/	232.	/	11468.	/	1.00	/	0.	/	48.
		2692.40	/	0.0	/	...	/	0.030	/	0.0	/	0.0	/		/	*BO*

100-74

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
 PAGE 3 OF 5, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY H-AV

SECID	AT	WS ELEV	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	REW	ACC	ID					
EMBRANKMENT OVERFLOW (CFS)	LEFT	RIGHT																
AC-AP	AT	20965	84	5200.	769.	99984.	1.01	106.	204.	2697.31	0.72	0.30	0.0	2698.03	6.76	0.38	-0.010	*AS*
M = **** / E = **** / K* = **** / 769. / 99984. / 1.01 / 106. / 204.																		
2697.31 / 0.72 / / 2698.03 / 6.76 / 0.38 / *AS*																		
===== END BRIDGE ANALYSIS =====																		
AD	AT	21615	650	5200.	632.	86434.	1.04	65.	128.	2699.16	1.09	2.03	0.19	2700.25	8.23	0.45	0.000	*XS*
AE	AT	22180	565	5200.	1458.	223036.	1.02	138.	303.	2700.84	0.20	0.79	0.0	2701.04	3.57	0.24	0.000	*XS*
AF	AT	23325	1145	4640.	635.	72495.	1.01	40.	143.	2702.24	0.84	1.71	0.32	2703.07	7.31	0.60	0.001	*XS*
COMP	AT	23349	24	4640.	545.	36852.	1.14	44.	219.	2703.09	1.29	*****	*****	2704.38	8.51	0.55	*****	*XS*
AG-1	AT	23369	20	4640.	426.	48227.	1.09	81.	146.	2702.97	2.01	0.24	0.36	2704.98	10.88	0.67	-0.001	*XS*
AG	AT	23411	42	4640.	464.	54300.	1.08	81.	146.	2703.66	1.67	0.35	0.0	2705.33	9.99	0.59	-0.001	*XS*
AH	AT	23710	299	4640.	536.	79631.	1.06	76.	128.	2705.58	1.23	1.49	0.0	2706.82	8.66	0.47	-0.000	*XS*
AT-TW	AT	23915	205	4640.	777.	107842.	1.02	48.	125.	2706.77	0.57	0.51	0.0	2707.33	5.97	0.34	-0.000	*XS*
===== BEGIN BRIDGE ANALYSIS =====																		
BR-OP	AT	23915		1570.	222.	16123.	1.00	0.	28.	2701.90	0.78	...	3... (-0.001)		7.06	0.43		*RQ*
EMBRANKMENT OVERFLOW (CFS) / LEFT 2504. / RIGHT 492. / *RG*																		
AJ-AP	AT	23963	48	4640.	608.	110378.	1.15	71.	123.	2706.78	1.04	0.09	0.41	2707.82	7.54	0.42	-0.011	*AS*
M = **** / E = **** / K* = **** / 617. / 113105. / 1.15 / 71. / 123.																		
2706.96 / 1.01 / / 2707.98 / 7.52 / 0.42 / *AS*																		
===== END BRIDGE ANALYSIS =====																		
AK	AT	24820	857	4640.	910.	113123.	1.08	10.	131.	2708.98	0.44	1.44	0.0	2704.42	5.10	0.40	-0.000	*XS*
AL	AT	25430	610	4640.	1197.	146980.	1.01	74.	269.	2709.98	0.24	0.79	0.0	2710.22	3.88	0.31	0.012	*XS*

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
 PAGE 4 OF 5, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY H-AV

SECID	AT	WS ELEV	HV	HF	HE	FG	V	FN	ACC	REW	ID					
AM	AT	25875	445	4640.	442.	47294.	1.00	188.	255.							
		2710.62	1.71	1.38	0.74	2712.34	10.49	0.64	-0.000		*XS*					
AM+.5	AT	25988	113	4640.	502.	57081.	1.00	188.	256.							
		2711.91	1.33	0.90	0.0	2713.24	9.25	0.53	-0.001		*XS*					
===== BEGIN BRIDGE ANALYSIS =====																
BRIDGE	AT	25988		0.	214.	10592.	1.00	0.	40.							
		2708.50	0.0	...3...	(-0.001)	0.0	0.0	0.0			*R0*					
===== EMBANKMENT OVERFLOW (CFS) / LEFT 2038. / RIGHT 7873. / *RG* =====																
AN	AT	26048	60	4640.	861.	123080.	1.05	86.	211.							
		2712.95	0.47	0.18	0.0	2713.42	5.39	0.42	-0.000		*AS*					
		M = ****	/	E = ****	/	K* = ****	/	861.	/	123080.	/	1.05	/	86.	/	211.
		2712.95	/	0.47	/	2713.42	/	5.39	/	0.42	/					*AS*
===== END BRIDGE ANALYSIS =====																
AO	AT	26760	712	4640.	566.	54450.	1.00	84.	211.							
		2714.95	1.05	2.29	0.29	2715.99	8.20	0.58	-0.001		*XS*					
AP	AT	27865	1105	4640.	654.	73812.	1.03	450.	533.							
		2721.11	0.81	5.92	0.0	2721.91	7.09	0.46	0.002		*XS*					
AQ-TW	AT	28514	649	4640.	351.	40072.	1.00	105.	147.							
		2724.87	2.72	4.72	0.96	2727.59	13.22	0.81	-0.000		*XS*					
===== BEGIN BRIDGE ANALYSIS =====																
BRIDGE	AT	28514		3364.	282.	16845.	1.00	0.	47.							
		2722.40	2.22	...3...	(0.021)	11.95	0.85				*R0*					
===== EMBANKMENT OVERFLOW (CFS) / LEFT 741. / RIGHT 1543. / *RG* =====																
AR	AT	28602	88	4640.	563.	63525.	1.01	79.	136.							
		2727.27	1.07	0.74	0.0	2728.34	8.24	0.45	-0.000		*AS*					
		M = ****	/	E = ****	/	K* = ****	/	563.	/	63525.	/	1.01	/	79.	/	136.
		2727.27	/	1.07	/	2728.34	/	8.24	/	0.45	/					*AS*
===== END BRIDGE ANALYSIS =====																
AS-TW	AT	28785	183	4640.	616.	74354.	1.01	42.	110.							
		2728.27	0.89	0.83	0.0	2729.16	7.54	0.43	-0.011		*XS*					
===== BEGIN BRIDGE ANALYSIS =====																
BRIDGE	AT	28785		3497.	358.	23606.	1.00	0.	47.							
		2727.10	1.49	...3...	(0.025)	9.78	0.58				*R0*					
===== EMBANKMENT OVERFLOW (CFS) / LEFT 225. / RIGHT 949. / *RG* =====																
AT	AT	28890	105	4640.	745.	108939.	1.05	21.	101.							
		2728.80	0.64	0.28	0.0	2729.44	6.23	0.36	-0.000		*AS*					
		M = ****	/	E = ****	/	K* = ****	/	849.	/	133780.	/	1.05	/	21.	/	101.

2730.10 / 0.49 / / 2730.59 / 5.47 / 0.30 / *AS*
===== END BRIDGE ANALYSIS =====

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
PAGE 5 OF 5, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
*** FLOODWAY ANALYSIS *** FLOODWAY H-AV

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
AU	AT	29625	735	4640.	496.	56107.	1.00	19.	72.	2731.77	1.36	2.11	0.44	2733.14	9.36	0.54	-0.000	*XS*
AV	AT	30015	390	4460.	571.	63362.	1.05	19.	103.	2734.41	0.99	2.27	0.0	2735.41	7.81	0.49	0.000	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 41,DATE= 2/27/78

COMPUTED WSC VALUES FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H=AV
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECTID	Z-DAM	COMP
WSC	2691.01	2703.09

SUMMARY OF ENCROACHMENTS FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY H-AV (PROFILE
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 1 OF 2

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
H	1000	1	HOR	YES	YES	*****	0.16	*****	100
I	1100	0	HOR	YES	YES	*****	0.99	*****	185
J	1200	0	HOR	YES	YES	*****	0.84	*****	340
K	1300	0	HOR	YES	YES	*****	0.99	*****	305
L-TW	1400	0	HOR	YES	YES	*****	0.78	*****	179
BO-LM	1500	2	N.A.	N.A.	N.A.	*****	-3.77	*****	34
RD-LM	1550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
M-APP	1600	5	HOR	YES	YES	*****	0.59	*****	299
N	1700	0	HOR	YES	YES	*****	0.77	*****	320
O	1800	0	HOR	YES	YES	*****	0.92	*****	141
Q-TW	2100	1	HOR	YES	YES	*****	0.97	*****	189
BR-QR	2200	2	N.A.	N.A.	N.A.	*****	0.93	*****	71
PR-QR	2220	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
QR-RD	2250	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
R	2300	5	HOR	YES	YES	*****	0.24	*****	240
S	2400	0	HOR	YES	YES	*****	0.96	*****	319
T-TW	2500	0	HOR	YES	YES	*****	-0.21	*****	133
BO-TU	2600	2	N.A.	N.A.	N.A.	*****	-0.21	*****	88
PR-TU	2620	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-U	2700	5	HOR	YES	YES	*****	-0.35	*****	125
V	2800	0	VHD	YES	YES	1.00	0.48	*****	136
W	2900	1	VHD	YES	YES	1.00	0.99	*****	165
X-TW	3000	0	VHD	CONS	YES	1.00	1.02	*****	87
BO-XY	3100	2	N.A.	N.A.	N.A.	*****	2.01	*****	77
PR-XY	3120	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
RD-XY	3150	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-Y	3200	5	VHD	YES	YES	1.00	-0.24	*****	87
YPRIM	3280	0	VHD	YES	YES	1.00	-0.14	*****	87
Z-DAM	3300	0	HOR	YES	YES	*****	0.00	*****	125
AA	3400	0	VHD	YES	YES	1.00	0.32	*****	128
AB-TW	3500	0	VHD	YES	YES	1.00	0.93	*****	94
BP-OP	3600	2	N.A.	N.A.	N.A.	*****	-3.48	*****	46
PIER	3620	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
ROAD	3650	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AC-AP	3700	5	VHD	YES	CONS	1.00	1.38	*****	98
AD	3800	0	VHD	YES	YES	1.00	1.58	*****	63
AE	3900	0	VHD	YES	CONS	1.00	2.14	*****	166
AF	4000	1	VHD	CONS	YES	1.00	1.40	*****	103
COMP	4100	0	HOR	YES	YES	*****	0.05	*****	175
AG-.1	4150	0	VHD	YES	YES	1.00	-0.99	*****	65

SUMMARY OF ENCROACHMENTS FOR: COVE CREEK LOWER WATAUGA CO. FLOODWAY H-AV
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY H-AV (PROFILE
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 2 OF 2

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
AG	4200	0	VHD	YES	YES	1.00	-0.40	*****	65
AH	4300	0	VHD	YES	YES	1.00	0.96	*****	52
AI-TW	4400	0	VHD	YES	CONS	1.00	1.65	*****	77
BR-OP	4500	2	N.A.	N.A.	N.A.	*****	-3.22	*****	27
ROAD	4550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AJ-AP	4600	5	VHD	YES	YES	1.00	-0.12	*****	52
AK	4700	0	VHD	CONS	YES	1.00	0.90	*****	121
AL	4800	0	VHD	CONS	YES	1.00	1.07	*****	195
AM	4900	0	VHD	YES	YES	1.00	0.94	*****	67
AM+.5	4950	0	VHD	YES	YES	1.00	1.64	*****	68
BRIDG	5000	2	N.A.	N.A.	N.A.	*****	-1.77	*****	39
ROAD	5050	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AN	5100	5	VHD	CONS	YES	1.00	2.36	*****	125
AO	5200	0	HOR	YES	YES	*****	0.65	*****	127
AP	5300	0	VHD	YES	YES	1.00	0.11	*****	83
AQ-TW	5400	0	HOR	YES	YES	*****	1.29	*****	42
BRIDG	5500	2	N.A.	N.A.	N.A.	*****	-1.18	*****	45
PIER	5520	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
ROAD	5550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AR	5600	5	VHD	YES	YES	1.00	0.59	*****	57
AS-TW	5700	0	VHD	CONS	YES	1.00	1.06	*****	68
BRIDG	5800	2	N.A.	N.A.	N.A.	*****	-0.11	*****	41
PIER	5820	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
ROAD	5850	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
AT	5900	5	VHD	CONS	YES	1.00	0.42	*****	80
AU	6000	0	VHD	CONS	YES	1.00	0.52	*****	53
AV	6100	1	HOR	YES	YES	*****	*****	*****	84

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	COVE CREEK LOWER WATAUGA CO. NC FLOODWAY	H-U	20	1	02	99	10
2	2	264603						
3	1000	H	1	27	3	2634	7690	99 99
4	1001	6390						
5	1005	0	1	26545	11	1	26497	20 1 26460 27 1 26438 27 1 26427
5	1006	96	2	26400	105	2	26393	110 2 26372 116 2 26356 118 2 26336
5	1007	123	2	26332	129	2	26332	139 2 26329 143 2 26333 144 2 26359
5	1008	153	3	26378	162	3	26399	207 3 26414 215 3 26450 219 3 26480
5	1009	220	3	26499	241	3	26499	300 3 26496 350 3 26511 400 3 26522
5	1010	433	3	26517	440	3	26552	
6	1015	1	2	055 045	1	2	050 045	1 2 045 050
3	1100	I	0	19	2	2639	8710	99 99
5	1105	0	1	26579	12	1	26507	23 1 26473 25 1 26466 46 1 26440
5	1106	100	1	26452	150	1	26451	200 1 26440 250 2 26427 262 2 26401
5	1107	264	2	26376	270	2	26372	278 2 26373 290 2 26371 295 2 26373
5	1108	296	2	26388	305	2	26429	316 2 26487 324 2 26518
6	1115	1	3	060 045	1	2	055 045	
3	1200	J	0	29	3	2643	10335	99 99
5	1205	6	1	26644	23	1	26599	31 1 26595 42 1 26528 57 1 26485
5	1206	100	1	26474	108	1	26448	120 1 26464 139 2 26452 141 2 26442
5	1207	148	2	26432	156	2	26420	165 2 26420 170 2 26441 171 2 26462
5	1208	175	3	26499	200	3	26499	300 3 26510 400 3 26494 500 3 26492
5	1209	555	3	26492	572	3	26538	582 3 26561 606 3 26566 616 3 26550
5	1210	669	3	26568	709	3	26582	726 3 26609 736 3 26644
6	1215	2	4	065 050	1	2	055 050	1 2 045 035
3	1300	K	0	30	3	2649	11705	99 99
5	1305	0	1	26592	14	1	26539	22 1 26519 27 1 26495 35 1 26518
5	1306	50	1	26528	100	1	26531	150 1 26539 200 1 26543 250 2 26541
5	1307	290	2	26513	294	2	26495	295 2 26490 299 2 26482 307 2 26479
5	1308	315	2	26483	320	2	26491	321 2 26514 326 3 26532 350 3 26540
5	1309	400	3	26535	450	3	26535	500 3 26534 534 3 26539 553 3 26610
5	1310	573	3	26596	576	3	26584	579 3 26603 580 3 26620 583 3 26692
6	1315	1	2	045 040	1	2	050 045	1 2 045 035
3	1400	L-TW	0	30	3	2651	12858	99 99
5	1405	0	1	26728	18	1	26718	48 1 26693 100 1 26656 150 1 26626
5	1406	200	1	26604	250	1	26597	300 1 26595 350 1 26597 400 1 26588
5	1407	450	1	26596	500	1	26600	550 1 26584 600 1 26577 630 2 26578
5	1408	636	2	26533	639	2	26522	644 2 26506 649 2 26503 661 2 26502
5	1409	667	2	26521	669	2	26539	677 3 26579 705 3 26583 722 3 26632
5	1410	746	3	26633	750	3	26625	757 3 26654 800 3 26685 802 3 26741
6	1415	1	2	050 045	2	4	055 045	1 2 065 065
3	1500	HO-LM	2	11	1	2650	12858	0 26569 1 0
5	1505	0	1	26567	0	1	26530	3 1 26530 6 1 26507 12 1 26495
5	1506	16	1	26495	18	1	26488	26 1 26505 33 1 26519 34 1 26570
5	1507	0	-9	26567				

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
6	1515	1 2 055 055						
3	1550	RD-LM 4 19 2 16	1 2	2 2			2	
5	1555	0 1 26724 38	1 26703 88	1 26675 140	1 26639 150	1 26633		
5	1556	200 1 26609 250	1 26599 300	1 26595 350	1 26596 400	1 26600		
5	1557	450 1 26606 500	1 26608 550	1 26598 600	1 26587 647	1 26589		
5	1558	665 2 26591 683	2 26593 735	2 26630 757	2 26634			
3	1600	M-APP 5 29 5 2652	12906 2 4					
5	1605	0 1 26721 50	1 26684 100	1 26635 150	1 26603 200	1 26586		
5	1606	250 1 26580 300	1 26596 350	1 26592 400	1 26594 450	1 26602		
5	1607	500 1 26596 550	1 26577 600	1 26572 614	2 26568 618	3 26536		
5	1608	620 3 26520 626	3 26508 634	3 26503 645	3 26504 648	3 26514		
5	1609	652 4 26542 656	5 26569 670	5 26582 680	5 26620 701	5 26634		
5	1610	725 5 26634 729	5 26624 733	5 26666 740	5 26753			
6	1615	1 2 045 035 2 4 055 045 2	4 055 045 2	4 055 045 1	2 070 050			
3	1700	N 0 34 3 2652	13320 99 99					
5	1705	0 1 26737 13	1 26673 27	1 26614 42	1 26591 56	1 26601		
5	1706	100 1 26596 150	1 26602 200	1 26605 250	1 26613 300	1 26612		
5	1707	352 1 26603 400	1 26604 450	1 26610 500	1 26598 523	1 26573		
5	1708	550 1 26577 585	2 26589 597	2 26564 601	2 26529 605	2 26518		
5	1709	611 2 26512 619	2 26521 624	2 26531 625	2 26543 631	3 26598		
5	1710	650 3 26589 694	3 26584 703	3 26625 713	3 26639 733	3 26652		
5	1711	740 3 26645 747	3 26698 757	3 26716 762	3 26736			
6	1715	2 4 045 040 1 2 055 055 1	2 070 055					
3	1800	0 0 19 3 2656	14370 99 99					
5	1805	0 1 26774 50	1 26642 85	1 26625 100	1 26619 120	2 26602		
5	1806	121 2 26557 126	2 26556 132	2 26554 140	2 26554 145	2 26566		
5	1807	146 2 26571 150	2 26603 158	3 26624 200	3 26613 250	3 26621		
5	1808	281 3 26627 285	3 26647 294	3 26683 314	3 26695			
6	1810	1 2 060 050 2 4 060 050 1	2 055 045					
3	2100	Q-TW 1 23 3 2658	14762 99 99					
4	2101	5370						
5	2105	0 1 26698 14	1 26683 28	1 26609 39	1 26586 39	1 26585		
5	2106	42 1 26573 56	1 26565 70	1 26572 79	1 26586 80	1 26588		
5	2107	93 2 26618 110	2 26628 148	2 26641 203	2 26634 203	2 26634		
5	2108	456 2 26684 476	2 26696 481	3 26692 489	3 26657 539	3 26663		
5	2109	639 3 26691 689	3 26707 739	3 26731				
6	2115	1 2 055 055 1 2 050 040 1	2 065 065					
3	2200	RR-QR 2 16 1 2657	14762 30 26683 1 1					
5	2205	0 1 26683 0	1 26609 4	1 26605 11	1 26592 12	1 26588		
5	2206	17 1 26577 29	1 26574 42	1 26558 49	1 26575 53	1 26587		
5	2207	54 1 26598 58	1 26615 70	1 26613 82	1 26615 82	1 26683		
5	2208	0 -9 26683						
6	2215	2 4 055 040						
3	2220	PR-QR 3 2	7					
5	2225	3 26560 2 26683						

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
3 2250	OP-RD 4	20	4	32	1	3	1 1 1 2	2
5 2255	0	1	26750	100	1	26736	200	1 26722 300
5 2256	500	1	26714	655	2	26713	696	2 26713 737
5 2257	900	3	26716	1000	3	26710	1093	4 26700 1100
5 2258	1200	4	26679	1250	4	26691	1300	4 26707 1350
3 2300	R 5	40	4 2660	14815	2	4		
5 2305	64	1	26753	65	1	26749	83	1 26746 84
5 2306	150	1	26742	192	1	26718	213	1 26706 245
5 2307	271	1	26653	300	1	26643	350	1 26637 400
5 2308	500	1	26646	535	2	26643	536	3 26634 538
5 2309	547	3	26578	551	3	26576	556	3 26579 560
5 2310	568	4	26634	600	4	26638	650	4 26653 700
5 2311	800	4	26657	850	4	26659	900	4 26663 950
5 2312	1050	4	26707	1100	4	26733	1150	4 26742 1200
6 2315	1 2 050 040	1	2 055 055	1	2 055 055	1	2 050 040	
3 2400	S 0	20	3 2661	15615	99	99		
5 2405	0	1	26790	10	1	26711	21	1 26657 50
5 2406	59	2	26598	68	2	26601	76	2 26606 79
5 2407	84	3	26661	100	3	26664	150	3 26663 200
5 2408	300	3	26669	350	3	26685	400	3 26712 450
6 2415	1 2 060 065	1	2 060 060	1	2 045 040			
3 2500	I-TW 0	19	3 2663	16224	99	99		
5 2505	0	1	26793	10	1	26767	22	1 26699 55
5 2506	79	2	26669	86	2	26646	89	2 26627 92
5 2507	103	2	26621	105	2	26626	108	2 26644 115
5 2508	162	3	26747	177	3	26765	200	3 26783 220
6 2515	1 2 075 060	1	2 055 050	2	4 065 050			
3 2600	RO-TU 2	20	1 2663	16324	15	26783	1	1
5 2605	0	1	26783	0	1	26771	6	1 26757 15
5 2606	31	1	26682	46	1	26676	52	1 26641 53
5 2607	65	1	26618	75	1	26626	78	1 26633 78
5 2608	93	1	26695	104	1	26732	108	1 26760 108
6 2615	1 2 060 060							
3 2620	PR-TU 3	4					4	
5 2625	2	26624	2	26680	4	26680	4	26782
3 2700	APP-U 5	24	5 2664	16467	1	5		
5 2705	0	1	26795	4	1	26794	23	1 26724 41
5 2706	76	3	26680	82	3	26634	83	3 26633 87
5 2707	100	3	26625	106	3	26634	107	3 26640 112
5 2708	150	5	26694	200	5	26705	235	5 26710 235
5 2709	250	5	26750	300	5	26780	356	5 26812 373
6 2715	1 2 080 060	1	2 080 080	1	2 060 060	1	2 055 045	1 2 055 045

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
B0-LM	WARNING	STATION	11	IS LESS THAN	STATION	10	
BR-QR	WARNING	STATION	16	IS LESS THAN	STATION	15	
BQ-TU	WARNING	STATION	20	IS LESS THAN	STATION	19	

INPUT SUMMARY FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U

20 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 20 TYPE 3 CARDS

KEPT 20 CROSS SECTIONS FOR EDITING

20 " " VALID FOR PROPERTY COMPUTATIONS

20 " " " " PROFILE "

*** INPUT CARD PRINTOUT ***

.....5.....¹0.....5.....²0.....5.....³0.....5.....⁴0.....5.....⁵0.....5.....⁶0.....5.....⁷0.....5.....⁸0

7 77777
8 88888

1
1

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....	0.....5.....
9 90100	1000 HOR	80	180	264587				
9 90110	1100 HOR	155	315	264816				
9 90120	1200 HOR	115	469	265204				
9 90130	1300 HOR	200	450	265589				
9 90140	1400 HOR	530	714	266077				
9 90160	1600 HOR	320	679	266180				
9 90170	1700 HOR	300	670	266255				
9 90180	1800 HOR	100	241	266576				
9 90210	2100 HOR	16	205	266737				
9 90230	2300 HOR	535	760	266881				
9 90240	2400 HOR	35	231	266959				
9 90250	2500 HOR	17	151	267288				
9 90270	2700 HOR	76	185	267558				
9 99999	END							

FLOODWAY H-U 2ND

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

M-APP; KU/KD < 0.7 OR > 1.4	ALERTED USER
M-APP; QRD > QT	
O ; KU/KD < 0.7 OR > 1.4	ASSUMED WSU = HIN
Q-TW ; KU/KD < 0.7 OR > 1.4	ALERTED USER
R ; KU/KD < 0.7 OR > 1.4	ALERTED USER
R ; WSU > BELMX (1)	ALERTED USER
R ; YU/Z < 1.1 (1)	CHECKED QBO (2)
T-TW ; KU/KD < 0.7 OR > 1.4	ASSUMED QBO (1)
	ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U
 PAGE 1 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY H-U 2ND

SECID	AT	WS ELEV	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	HW	HF	HE	EG	V	FN	ACC	ID
H	AT	7690	0	6390.	854.	112930.	1.14	80.	180.	2646.03	0.99		2647.02	7.48	0.47		*IS*
I	AT	8710	1020	6390.	1114.	134264.	1.09	155.	315.	2649.21	0.56	2.75	0.0	2649.77	5.74	0.38	0.001 *XS*
J	AT	10335	1625	6390.	1395.	136187.	1.09	115.	469.	2653.05	0.35	3.63	0.0	2653.40	4.58	0.42	0.004 *XS*
K	AT	11705	1370	6390.	1025.	99692.	1.04	200.	450.	2657.05	0.63	4.12	0.14	2657.67	6.23	0.49	0.017 *XS*
L-TW	AT	12858	1153	6390.	932.	96109.	1.35	530.	714.	2661.78	0.99	4.91	0.18	2662.77	6.86	0.53	0.001 *XS*
===== BEGIN BRIDGE ANALYSIS =====																	
BO-LM	AT	12858		0.	211.	11207.	1.00	0.	34.	2657.00	0.0	...3...	(-0.001)	0.0	0.0		*BO*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 7429. / RIGHT 744. / *RG* =====																	
M-APP	AT	12906	48	6390.	1612.	183700.	1.21	320.	679.	2662.58	0.29	0.11	0.0	2662.88	3.96	0.32	-0.001 *AS*
M = **** / E = **** / K* = **** / 1612. / 183700. / 1.21 / 320. / 679. / 2662.58 / 0.29 / / 2662.88 / 3.96 / 0.32 / *AS*																	
===== END BRIDGE ANALYSIS =====																	
N	AT	13320	414	6390.	1558.	136041.	1.08	300.	670.	2663.28	0.28	0.68	0.0	2663.56	4.10	0.36	0.002 *XS*
O	AT	14370	1050	6390.	862.	87915.	1.08	100.	241.	2666.54	0.92	3.58	0.32	2667.46	7.41	0.51	0.000 *XS*
O-TW	AT	14762	392	5370.	1248.	137349.	1.01	16.	205.	2668.29	0.29	1.12	0.0	2668.58	4.30	0.26	-0.002 *XS*
===== BEGIN BRIDGE ANALYSIS =====																	
BR-OR	AT	14762		3978.	656.	93883.	1.00	0.	82.	2668.29	0.57	...1...	(0.047)	6.07	0.35		*RO*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 1490. / *RG* =====																	
R	AT	14815	53	5370.	986.	91431.	1.04	535.	760.	2668.32	0.48	0.12	0.09	2668.80	5.45	0.47	-0.000 *AS*
M = 0.59 / E = 0.00 / K* = 1.22 / 1177. / 121700. / 1.02 / 535. / 760. / 2669.17 / 0.33 / / 2669.50 / 4.56 / 0.37 / *AS*																	
===== END BRIDGE ANALYSIS =====																	
S	AT	15615	800	5370.	1089.	107480.	1.04	35.	231.	2670.90	0.39	1.76	0.03	2671.29	4.93	0.41	0.000 *XS*

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U
 PAGE 2 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY H-U 2ND

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
T-TW AT 16324 / 709 / 5370. / 732. / 68276. / 1.32 / 17. / 151.
2673.33 / 1.10 / 2.79 / 0.36 / 2674.44 / 7.33 / 0.57 / 0.001 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-TU AT 16324 / / 5370. / 582. / 48058. / 1.00 / 10. / 104.
2673.33 / 1.32 / ...1... (0.056) / 9.23 / 0.64 / *BO*
    
```

 NO EMBANKMENT CROSS SECTION

```

APP-U AT 16467 / 143 / 5370. / 758. / 75153. / 1.01 / 76. / 185.
2674.45 / 0.79 / 0.80 / 0.0 / 2675.24 / 7.08 / 0.39 / -0.000 *AS*
-----
M = 0.20 / E = 0.0 / K* = 0.49 / 846. / 89245. / 1.01 / 76. / 185.
2675.26 / 0.63 / / 2675.89 / 6.35 / 0.33 / *AS*
===== END BRIDGE ANALYSIS =====
    
```

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
6	1515	1 2 055 055						
3	1550	RD-LM 4 19 2 16	1 2	2 2			2	
5	1555	0 1 26724 38	1 26703 88	1 26675 140	1 26639 150	1 26633		
5	1556	200 1 26609 250	1 26599 300	1 26595 350	1 26596 400	1 26600		
5	1557	450 1 26606 500	1 26608 550	1 26598 600	1 26587 647	1 26589		
5	1558	665 2 26591 683	2 26593 735	2 26630 757	2 26634			
3	1600	M-APP 5 29 5 2652	12906 2 4					
5	1605	0 1 26721 50	1 26684 100	1 26635 150	1 26603 200	1 26586		
5	1606	250 1 26580 300	1 26596 350	1 26592 400	1 26594 450	1 26602		
5	1607	500 1 26596 550	1 26577 600	1 26572 614	2 26568 618	3 26536		
5	1608	620 3 26520 626	3 26508 634	3 26503 645	3 26504 648	3 26514		
5	1609	652 4 26542 656	5 26569 670	5 26582 680	5 26620 701	5 26634		
5	1610	725 5 26634 729	5 26624 733	5 26666 740	5 26758			
6	1615	1 2 045 035 2 4 055 045 2 4 055 045 2 4 055 045 1 2 070 050						
3	1700	N 0 34 3 2652	13320 99 99					
5	1705	0 1 26737 13	1 26673 27	1 26614 42	1 26591 56	1 26601		
5	1706	100 1 26596 150	1 26602 200	1 26605 250	1 26613 300	1 26612		
5	1707	352 1 26603 400	1 26604 450	1 26610 500	1 26598 523	1 26573		
5	1708	550 1 26577 585	2 26589 597	2 26564 601	2 26529 605	2 26518		
5	1709	611 2 26512 619	2 26521 624	2 26531 625	2 26543 631	3 26598		
5	1710	650 3 26589 694	3 26584 703	3 26625 713	3 26639 733	3 26652		
5	1711	740 3 26645 747	3 26698 757	3 26716 762	3 26736			
6	1715	2 4 045 040 1 2 055 055 1 2 070 055						
3	1800	0 0 19 3 2656	14370 99 99					
5	1805	0 1 26774 50	1 26642 85	1 26625 100	1 26619 120	2 26602		
5	1806	121 2 26557 126	2 26556 132	2 26554 140	2 26554 145	2 26566		
5	1807	146 2 26571 150	2 26603 158	3 26624 200	3 26613 250	3 26621		
5	1808	281 3 26627 285	3 26647 294	3 26683 314	3 26695			
6	1810	1 2 060 050 2 4 060 050 1 2 055 045						
3	2100	Q-TW 1 23 3 2658	14762 99 99					
4	2101	5370						
5	2105	0 1 26698 14	1 26683 28	1 26609 39	1 26586 39	1 26585		
5	2106	42 1 26573 56	1 26565 70	1 26572 79	1 26586 80	1 26588		
5	2107	93 2 26618 110	2 26628 148	2 26641 203	2 26634 203	2 26634		
5	2108	456 2 26684 476	2 26696 481	3 26692 489	3 26657 539	3 26663		
5	2109	639 3 26691 689	3 26707 739	3 26731				
6	2115	1 2 055 055 1 2 050 040 1 2 065 065						
3	2200	RR-OR 2 16 1 2657	14762 30 26683 1 1					
5	2205	0 1 26683 0	1 26609 4	1 26605 11	1 26592 12	1 26588		
5	2206	17 1 26577 24	1 26574 42	1 26558 49	1 26575 53	1 26587		
5	2207	54 1 26598 58	1 26615 70	1 26613 82	1 26615 82	1 26683		
5	2208	0 -9 26683						
6	2215	2 4 055 040						
3	2220	PR-OR 3 2	7					
5	2225	3 26560 2 26683						

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BO-LM	WARNING	STATION	11	IS LESS THAN	STATION	10	
BR-QR	WARNING	STATION	16	IS LESS THAN	STATION	15	
BO-TU	WARNING	STATION	20	IS LESS THAN	STATION	19	

INPUT SUMMARY FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U

20 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 20 TYPE 3 CARDS

KEPT 20 CROSS SECTIONS FOR EDITING

20 " " VALID FOR PROPERTY COMPUTATIONS

20 " " " " PROFILE "

*** INPUT CARD PRINTOUT ***

1	2	3	4	5	6	7	8
5	0	5	0	5	0	5	0

7 77777
8 88888

1
1

0

1

16

8

00
01
02
03
04
05
06
07
08
09
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
00

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

9 90100	1000	HOR	80	180	264587
9 90110	1100	HOR	140	315	264816
9 90120	1200	HOR	100	460	265204
9 90130	1300	HOR	175	465	265589
9 90140	1400	HOR	530	714	266077
9 90160	1600	HOR	330	679	266180
9 90170	1700	HOR	300	560	266255
9 90180	1800	HOR	100	241	266576
9 90210	2100	HOR	16	205	266737
9 90230	2300	HOR	500	700	266881
9 90240	2400	HOR	13	300	266959
9 90250	2500	HOR	17	151	267288
9 90270	2700	HOR	60	150	267558
9 99999		END			

FLOODWAY H-U 3RD

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

M-APP; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

M-APP; QRD > QT ;

ASSUMED WSU = HIN

O ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

Q-TW ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

R ; HIN TOO LOW ;

USED HIN = WSD+0.01

R ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

T-TW ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U
 PAGE 1 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY H-U 3RD

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
H   AT   7690 /    0 /  6390. /  854. / 112930. / 1.14 /  80. / 180.
     2646.03 / 0.99 /           / 2647.02 /  7.48 /  0.47 /      *IS*
-----
I   AT   8710 /  1020 /  6390. / 1170. / 138346. / 1.10 / 140. / 315.
     2649.18 / 0.51 /  2.67 /  0.0 / 2649.69 /  5.46 /  0.37 / 0.001 *XS*
-----
J   AT  10335 /  1625 /  6390. / 1408. / 135845. / 1.09 / 100. / 460.
     2652.87 / 0.35 /  3.53 /  0.0 / 2653.22 /  4.54 /  0.42 / 0.003 *XS*
-----
K   AT  11705 /  1370 /  6390. / 1089. / 101180. / 1.05 / 175. / 465.
     2656.84 / 0.56 /  4.07 /  0.11 / 2657.40 /  5.87 /  0.48 / 0.004 *XS*
-----
L-TW AT  12858 /  1153 /  6390. /  905. /  92281. / 1.36 /  530. / 714.
     2661.64 / 1.06 /  5.04 /  0.25 / 2662.69 /  7.06 /  0.55 / 0.002 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-LM AT  12858 /           /  0. /  211. / 11207. / 1.00 /  0. /  34.
     2657.00 /  0.0 /           / ...3... (-.001) /  0.0 /  0.0 /      *BO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT  7168. / RIGHT  714. /      *RG*
-----
M-APP AT  12906 /    48 /  6390. / 1546. / 174997. / 1.22 /  330. / 679.
     2662.49 / 0.32 /  0.12 /  0.0 / 2662.81 /  4.13 /  0.34 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** / 1546. / 174997. / 1.22 / 330. / 679.
     2662.49 / 0.32 /           / 2662.81 /  4.13 /  0.34 /      *AS*
===== END BRIDGE ANALYSIS =====
N   AT  13320 /   414 /  6390. / 1199. / 130686. / 1.08 /  300. / 660.
     2663.24 / 0.31 /  0.74 /  0.0 / 2663.54 /  4.26 /  0.38 / -0.007 *XS*
-----
O   AT  14370 /  1050 /  6390. /  872. /  89458. / 1.08 /  100. / 241.
     2666.61 / 0.90 /  3.67 /  0.30 / 2667.51 /  7.33 /  0.50 / 0.002 *XS*
-----
O-TW AT  14762 /   392 /  5370. / 1253. / 133200. / 1.01 /  16. / 205.
     2668.32 / 0.29 /  1.10 /  0.0 / 2668.61 /  4.28 /  0.26 / 0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OR AT  14762 /           / 4000. /  626. /  63152. / 1.00 /  0. /  82.
     2668.30 / 0.64 /           / ...3... (0.047) /  6.39 /  0.38 /      *RO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT  0. / RIGHT  1292. /      *RG*
-----
R   AT  14815 /    53 /  5370. /  919. /  86431. / 1.03 /  500. / 700.
     2668.33 / 0.55 /  0.13 /  0.15 / 2668.88 /  5.84 /  0.50 / -0.011 *AS*
-----
M = **** / E = **** / K* = **** / 1029. / 103547. / 1.02 / 500. / 700.
     2668.88 / 0.43 /           / 2669.31 /  5.22 /  0.43 /      *AS*
===== END BRIDGE ANALYSIS =====
S   AT  15615 /   800 /  5370. / 1417. / 132699. / 1.04 /  13. / 300.
     2670.76 / 0.23 /  1.68 /  0.0 / 2670.99 /  3.79 /  0.33 / 0.002 *XS*
=====
    
```

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U
 PAGE 2 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY H-U 3RD

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
T-TW AT 16324 / 709 / 5370. / 660. / 58890. / 1.36 / 17. / 151.
2672.79 / 1.39 / 2.62 / 0.58 / 2674.19 / 8.14 / 0.65 / 0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-TU AT 16324 / / 5370. / 533. / 42311. / 1.00 / 11. / 103.
2672.79 / 1.58 / ...1... (0.057) / 10.07 / 0.72 / *BO*
```

 NO EMBANKMENT CROSS SECTION

```
APP-U AT 16467 / 143 / 5370. / 668. / 64612. / 1.13 / 60. / 150.
2674.14 / 1.13 / 1.08 / 0.0 / 2675.27 / 8.04 / 0.51 / -0.001 *AS*
```

```
M = 0.0 / E = 1.00 / K* = 0.15 / 698. / 69169. / 1.12 / 60. / 150.
2674.48 / 1.03 / / 2675.51 / 7.69 / 0.47 / *AS*
```

----- END BRIDGE ANALYSIS -----

END OF THIS PROFILE

SUMMARY OF ENCROACHMENTS FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY H-U 3RD (PR)FILE
 NUMBER 1, (UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 1 OF 1

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
H	1000	1	HOR	YES	YES	*****	0.16	*****	100
I	1100	0	HOR	YES	YES	*****	1.02	*****	175
J	1200	0	HOR	YES	YES	*****	0.83	*****	360
K	1300	0	HOR	YES	YES	*****	0.95	*****	290
L-TW	1400	0	HOR	YES	YES	*****	0.87	*****	184
BO-LM	1500	2	N.A.	N.A.	N.A.	*****	-3.77	*****	34
RD-LM	1550	4	N.A.	N.A.	N.A.	*****	** ***	*****	*****
M-APP	1600	5	HOR	YES	YES	*****	0.69	*****	349
N	1700	0	HOR	YES	YES	*****	0.69	*****	360
O	1800	0	HOR	YES	YES	*****	0.85	*****	141
Q-TW	2100	1	HOR	YES	YES	*****	0.95	*****	189
BR-QR	2200	2	N.A.	N.A.	N.A.	*****	0.93	*****	71
PR-QR	2220	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
QR-RD	2250	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
R	2300	5	HOR	YES	YES	*****	0.07	*****	200
S	2400	0	HOR	YES	YES	*****	1.17	*****	287
T-TW	2500	0	HOR	YES	YES	*****	-0.09	*****	134
BO-TU	2600	2	N.A.	N.A.	N.A.	*****	-0.09	*****	89
PR-TU	2620	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-U	2700	5	HOR	YES	YES	*****	-1.10	*****	90

*** INPUT CARD PRINTOUT ***

1	2	3	4	5	6	7	8	
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
1	1	COVE CREEK LOWER WATAUGA CO. NC FLOODWAY					H-U	20 1 02 99 10
2	2	264603						
3	1000	H	1	27	3	2634	7690 99 99	
4	1001	5390						
5	1005	0	1	26545	11	1	26497 20 1 26460 27 1 26438 27 1 26427	
5	1006	96	2	26400	105	2	26393 110 2 26372 116 2 26356 118 2 26336	
5	1007	123	2	26332	129	2	26332 139 2 26329 143 2 26333 144 2 26359	
5	1008	153	3	26378	162	3	26399 207 3 26414 215 3 26450 219 3 26480	
5	1009	220	3	26499	241	3	26499 300 3 26498 350 3 26511 400 3 26522	
5	1010	433	3	26517	440	3	26552	
6	1015	1	2	055 045	1	2	050 045 1 2 045 050	
3	1100	I	0	19	2	2639	8710 99 99	
5	1105	0	1	26579	12	1	26507 23 1 26473 25 1 26466 46 1 26440	
5	1106	100	1	26452	150	1	26451 200 1 26440 250 2 26427 262 2 26401	
5	1107	264	2	26376	270	2	26372 278 2 26373 290 2 26371 295 2 26373	
5	1108	296	2	26388	305	2	26429 316 2 26487 324 2 26518	
6	1115	1	3	060 045	1	2	055 045	
3	1200	J	0	29	3	2643	10335 99 99	
5	1205	0	1	26544	23	1	26599 31 1 26595 42 1 26528 57 1 26485	
5	1206	100	1	26474	108	1	26448 120 1 26464 139 2 26452 141 2 26442	
5	1207	148	2	26432	156	2	26420 165 2 26420 170 2 26441 171 2 26462	
5	1208	175	3	26499	200	3	26499 300 3 26510 400 3 26494 500 3 26492	
5	1209	555	3	26492	572	3	26538 582 3 26561 606 3 26566 616 3 26550	
5	1210	669	3	26568	709	3	26582 726 3 26609 736 3 26644	
6	1215	2	4	065 050	1	2	055 050 1 2 045 035	
3	1300	K	0	30	3	2649	11705 99 99	
5	1305	0	1	26692	14	1	26539 22 1 26519 27 1 26493 35 1 26518	
5	1306	50	1	26528	100	1	26531 150 1 26539 200 1 26543 250 2 26541	
5	1307	290	2	26513	294	2	26495 295 2 26490 299 2 26482 307 2 26479	
5	1308	315	2	26483	320	2	26491 321 2 26514 326 3 26532 350 3 26540	
5	1309	400	3	26535	450	3	26535 500 3 26534 534 3 26539 553 3 26610	
5	1310	573	3	26596	576	3	26584 579 3 26603 580 3 26620 583 3 26692	
6	1315	1	2	045 040	1	2	050 045 1 2 045 035	
3	1400	L-TW	0	30	3	2651	12658 99 99	
5	1405	0	1	26728	18	1	26718 48 1 26693 100 1 26656 150 1 26626	
5	1406	200	1	26604	250	1	26597 300 1 26595 350 1 26597 400 1 26588	
5	1407	450	1	26596	500	1	26600 550 1 26584 600 1 26577 630 2 26578	
5	1408	636	2	26533	639	2	26522 644 2 26506 649 2 26503 661 2 26502	
5	1409	667	2	26521	669	2	26539 677 3 26579 705 3 26583 722 3 26632	
5	1410	746	3	26633	750	3	26625 757 3 26654 800 3 26685 802 3 26741	
6	1415	1	2	050 045	2	4	055 045 1 2 065 065	
3	1500	RO-LM	2	11	1	2650	12858 0 26569 1 0	
5	1505	0	1	26567	0	1	26530 3 1 26530 6 1 26507 12 1 26495	
5	1506	16	1	26495	18	1	26488 26 1 26505 33 1 26519 34 1 26570	
5	1507	0	9	26567				

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
6	1515	1	2	055	055			
3	1550	RD-LM	4	19	2	16	1	2
5	1555	0	1	26724	38	1	26703	88
5	1556	200	1	26609	250	1	26599	300
5	1557	450	1	26606	500	1	26608	550
5	1558	665	2	26591	683	2	26593	735
3	1600	M-APP	5	29	5	2652	12906	2
5	1605	0	1	26721	50	1	26684	100
5	1606	250	1	26580	300	1	26596	350
5	1607	500	1	26596	550	1	26577	600
5	1608	620	3	26520	626	3	26508	634
5	1609	652	4	26542	656	5	26569	670
5	1610	725	5	26634	729	5	26624	733
6	1615	1	2	045	035	2	4	055
3	1700	N	0	34	3	2652	13320	99
5	1705	0	1	26737	13	1	26673	27
5	1706	100	1	26596	150	1	26602	200
5	1707	352	1	26603	400	1	26604	450
5	1708	550	1	26577	585	2	26589	597
5	1709	611	2	26512	619	2	26521	624
5	1710	650	3	26589	694	3	26584	703
5	1711	740	3	26645	747	3	26698	757
6	1715	2	4	045	040	1	2	055
3	1800	0	0	19	3	2656	14370	99
5	1805	0	1	26774	50	1	26642	85
5	1806	121	2	26557	126	2	26556	132
5	1807	146	2	26571	150	2	26603	158
5	1808	281	3	26627	285	3	26647	294
6	1810	1	2	060	050	2	4	060
3	2100	Q-TW	1	23	3	2658	14762	99
4	2101	5370						
5	2105	0	1	26698	14	1	26683	28
5	2106	42	1	26573	56	1	26565	70
5	2107	93	2	26618	110	2	26628	148
5	2108	456	2	26684	476	2	26696	481
5	2109	639	3	26691	689	3	26707	739
6	2115	1	2	055	055	1	2	050
3	2200	RR-QR	2	16	1	2657	14762	30
5	2205	0	1	26683	0	1	26609	4
5	2206	17	1	26577	29	1	26574	42
5	2207	54	1	26598	58	1	26615	70
5	2208	0	-9	26683				
6	2215	2	4	055	040			
3	2220	PR-QR	3	2				7
5	2225	3	26560	2	26683			

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
	.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0							
3	2250 OR-RD	4 20 4	32 1	3 1	1 1 1	2 2		
5	2255	0 1 26750	100 1 26736	200 1 26722	300 1 26714	400 1 26714		
5	2256	500 1 26714	655 2 26713	696 2 26713	737 3 26713	800 3 26716		
5	2257	900 3 26716	1000 3 26710	1093 4 26700	1100 4 26663	1150 4 26665		
5	2258	1200 4 26679	1250 4 26691	1300 4 26707	1350 4 26731	1400 4 26766		
3	2300 R	5 40 4 2660	14815 2 4					
5	2305	64 1 26753	65 1 26749	83 1 26746	84 1 26749	100 1 26751		
5	2306	150 1 26742	192 1 26718	213 1 26706	245 1 26697	250 1 26691		
5	2307	271 1 26653	300 1 26643	350 1 26637	400 1 26637	450 1 26638		
5	2308	500 1 26646	535 2 26643	536 3 26634	538 3 26616	543 3 26586		
5	2309	547 3 26578	551 3 26576	556 3 26579	560 3 26582	561 3 26603		
5	2310	568 4 26634	600 4 26638	650 4 26653	700 4 26652	750 4 26647		
5	2311	800 4 26657	850 4 26659	900 4 26663	950 4 26669	1000 4 26678		
5	2312	1050 4 26707	1100 4 26733	1150 4 26742	1200 4 26741	1226 4 26759		
6	2315 1	2 050 040	1 2 055 055	1 2 055 055	1 2 050 040			
3	2400 S	0 20 3 2661	15615 99 99					
5	2405	0 1 26790	10 1 26711	21 1 26657	50 2 26643	54 2 26607		
5	2406	59 2 26598	68 2 26601	76 2 26606	79 2 26614	80 2 26629		
5	2407	84 3 26661	100 3 26664	150 3 26663	200 3 26664	250 3 26672		
5	2408	300 3 26669	350 3 26685	400 3 26712	450 3 26769	500 3 26798		
6	2415 1	2 080 065	1 2 060 060	1 2 045 040				
3	2500 T-TW	0 19 3 2663	16324 99 99					
5	2505	0 1 26793	10 1 26767	22 1 26699	55 1 26679	73 2 26679		
5	2506	79 2 26669	86 2 26646	89 2 26627	92 2 26617	97 2 26617		
5	2507	103 2 26621	105 2 26626	108 2 26644	115 3 26689	139 3 26708		
5	2508	162 3 26747	177 3 26765	200 3 26783	220 3 26796			
6	2515 1	2 075 060	1 2 055 050	2 4 065 050				
3	2600 RO-TU	2 20 1 2663	16324 15 26783	1 1				
5	2605	0 1 26783	0 1 26771	6 1 26757	15 1 26705	18 1 26694		
5	2606	31 1 26632	46 1 26676	52 1 26641	53 1 26640	56 1 26620		
5	2607	65 1 26618	75 1 26626	78 1 26633	78 1 26634	83 1 26669		
5	2608	93 1 26695	104 1 26732	108 1 26760	108 1 26783	0 -9 26783		
6	2615 1	2 060 060						
3	2620 PR-TU	3 4						
5	2625	2 26624	2 26680	4 26680	26782			
3	2700 APP-U	5 24 3 2664	16467 1 5					
5	2705	0 1 26795	4 1 26794	23 1 26724	41 1 26686	42 2 26686		
5	2706	76 3 26680	82 3 26634	83 3 26633	87 3 26625	95 3 26626		
5	2707	100 3 26625	106 3 26634	107 3 26640	112 4 26683	126 4 26689		
5	2708	150 5 26694	200 5 26705	235 5 26710	235 5 26726	242 5 26748		
5	2709	250 5 26750	300 5 26780	356 5 26812	373 5 26820			
6	2715 1	2 080 080	1 2 080 080	1 2 060 060	1 2 055 045	1 2 055 045		

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BO-LM	WARNING	STATION	11	IS LESS THAN	STATION	10	
BR-QR	WARNING	STATION	16	IS LESS THAN	STATION	15	
BO-TU	WARNING	STATION	20	IS LESS THAN	STATION	19	

INPUT SUMMARY FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U

20 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 20 TYPE 3 CARDS

KEPT 20 CROSS SECTIONS FOR EDITING

20 " " VALID FOR PROPERTY COMPUTATIONS

20 " " " " PROFILE " "

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

7 77777
8 88888

1
1

*** INPUT CARD PRINTOUT ***

1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0							
9 90100	1000 HOR	80	180	264587			
9 90110	1100 HOR	125	315	264816			
9 90120	1200 HOR	100	450	265204			
9 90130	1300 HOR	175	465	265589			
9 90140	1400 HOR	525	714	266077			
9 90160	1600 HOR	360	679	266180			
9 90170	1700 HOR	330	660	266255			
9 90180	1800 HOR	100	241	266576			
9 90210	2100 HOR	16	205	266737			
9 90230	2300 HOR	500	740	266881			
9 90240	2400 HOR	10	330	266959			
9 90250	2500 HOR	17	151	267288			
9 90270	2700 HOR	60	185	267558			
9 99999	END						

FLOODWAY H-U 3RD

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR (WARNING) MESSAGE; INTERMEDIATE RESULTS (IF ANY); ACTION TAKEN

M-APP; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

M-APP; QRD > QT ;

ASSUMED WSU = H1N

Q-TW ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

T-TW ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

APP-U; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U
 PAGE 1 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY H-U 3RD

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
H AT 7690 / 0 / 6390. / 854. / 112930. / 1.14 / 80. / 180.
2646.03 / 0.99 / / 2647.02 / 7.48 / 0.47 / *IS*
-----
I AT 8710 / 1020 / 6390. / 1224. / 142229. / 1.11 / 125. / 315.
2649.14 / 0.47 / 2.59 / 0.0 / 2649.61 / 5.22 / 0.36 / 0.001 *XS*
-----
J AT 10335 / 1625 / 6390. / 1356. / 130060. / 1.10 / 100. / 450.
2652.82 / 0.38 / 3.59 / 0.0 / 2653.20 / 4.71 / 0.43 / 0.004 *XS*
-----
K AT 11705 / 1370 / 6390. / 1106. / 103693. / 1.05 / 175. / 465.
2656.90 / 0.55 / 4.15 / 0.08 / 2657.44 / 5.78 / 0.47 / 0.006 *XS*
-----
L-TW AT 12858 / 1153 / 6390. / 909. / 91800. / 1.37 / 525. / 714.
2661.59 / 1.05 / 4.95 / 0.25 / 2662.64 / 7.03 / 0.56 / 0.002 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-LM AT 12858 / / 0. / 211. / 11207. / 1.00 / 0. / 34.
2657.00 / 0.0 / ...3... (-.001) / 0.0 / 0.0 / *BO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 6995. / RIGHT 696. / *RG*
-----
M-APP AT 12906 / 48 / 6390. / 1417. / 160543. / 1.23 / 360. / 679.
2662.39 / 0.39 / 0.13 / 0.0 / 2662.78 / 4.51 / 0.36 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** / 1417. / 160543. / 1.23 / 360. / 679.
2662.39 / 0.39 / / 2662.78 / 4.51 / 0.36 / *AS*
===== END BRIDGE ANALYSIS =====
N AT 13320 / 414 / 6390. / 1439. / 128824. / 1.07 / 330. / 660.
2663.27 / 0.33 / 0.82 / 0.0 / 2663.59 / 4.44 / 0.39 / 0.000 *XS*
-----
O AT 14370 / 1050 / 6390. / 879. / 90629. / 1.07 / 100. / 241.
2666.66 / 0.88 / 3.67 / 0.28 / 2667.55 / 7.27 / 0.49 / 0.002 *XS*
-----
O-TW AT 14762 / 392 / 5370. / 1257. / 138017. / 1.01 / 16. / 205.
2668.34 / 0.29 / 1.08 / 0.0 / 2668.62 / 4.27 / 0.26 / 0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BR-QR AT 14762 / / 4046. / 626. / 63152. / 1.00 / 0. / 82.
2668.30 / 0.65 / ...3... (0.047) / 6.47 / 0.38 / *BO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 1348. / *RG*
-----
R AT 14815 / 53 / 5370. / 1066. / 99458. / 1.03 / 500. / 740.
2668.39 / 0.41 / 0.11 / 0.06 / 2668.79 / 5.04 / 0.43 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** / 1225. / 124286. / 1.02 / 500. / 740.
2669.05 / 0.30 / / 2669.35 / 4.38 / 0.36 / *AS*
===== END BRIDGE ANALYSIS =====
S AT 15615 / 800 / 5370. / 1453. / 131185. / 1.05 / 11. / 330.
2670.55 / 0.22 / 1.41 / 0.0 / 2670.77 / 3.70 / 0.33 / 0.003 *XS*
=====
    
```

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U
PAGE 2 OF 2, PROFILE NUMBER 1; UPSTREAM COMPUTATIONS
*** FLOODWAY ANALYSIS *** FLOODWAY H-U 3RD

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
T-TW AT 16324 / 709 / 5370. / 643. / 56838. / 1.36 / 17. / 150.
2672.67 / 1.47 / 2.74 / 0.63 / 2674.14 / 8.35 / 0.67 / 0.001 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-TU AT 16324 / / 5370. / 522. / 41007. / 1.00 / 11. / 102.
2672.67 / 1.65 / ...1... (0.057) / 10.29 / 0.74 / *BO*
```

NO EMBANKMENT CROSS SECTION

```
APP-U AT 16467 / 143 / 5370. / 843. / 82052. / 1.11 / 60. / 185.
2674.32 / 0.70 / 0.88 / 0.0 / 2675.02 / 6.37 / 0.40 / -0.000 *AS*
-----
M = 0.18 / E = 0.0 / K* = 0.45 / 957. / 100119. / 1.11 / 60. / 185.
2675.23 / 0.54 / / 2675.77 / 5.61 / 0.33 / *AS*
===== END BRIDGE ANALYSIS =====
```

END OF THIS PROFILE

SUMMARY OF ENCROACHMENTS FOR: COVE CREEK LOWER WATAUGA CO. NC FLOODWAY H-U
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY H-U 3RD (PROFILE
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 1 OF 1

SECID	CARD 3		FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
	SEQUENCE	TYPE		LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
H	1000	1	HOR	YES	YES	*****	0.16	*****	100
I	1100	0	HOR	YES	YES	*****	0.98	*****	190
J	1200	0	HOR	YES	YES	*****	0.78	*****	350
K	1300	0	HOR	YES	YES	*****	1.01	*****	290
L-TW	1400	0	HOR	YES	YES	*****	0.82	*****	189
BO-LM	1500	2	N.A.	N.A.	N.A.	*****	-3.77	*****	34
RD-LM	1550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
M-APP	1600	5	HOR	YES	YES	*****	0.59	*****	319
N	1700	0	HOR	YES	YES	*****	0.72	*****	330
O	1800	0	HOR	YES	YES	*****	0.90	*****	141
Q-TW	2100	1	HOR	YES	YES	*****	0.97	*****	189
BR-QR	2200	2	N.A.	N.A.	N.A.	*****	0.93	*****	71
PR-QR	2220	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
QR-RD	2250	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
R	2300	5	HOR	YES	YES	*****	0.24	*****	240
S	2400	0	HOR	YES	YES	*****	0.96	*****	319
T-TW	2500	0	HOR	YES	YES	*****	-0.21	*****	133
BO-TU	2600	2	N.A.	N.A.	N.A.	*****	-0.21	*****	88
PR-TU	2620	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-U	2700	5	HOR	YES	YES	*****	-0.35	*****	125

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

1	1	COVE CREEK LOWER FLOODWAY	E-U	25	1	02	99	10
2	2	263858						
3	500	E	1	25	2	2628	6020	99 99
4	504	6760						
5	505	0	1	26544	8	1	26472	12 1 26482 32 1 26473 35 1 26468
5	506	51	1	26356	55	1	26350	62 1 26294 62 1 26289 69 1 26283
5	507	75	1	26275	82	1	26284	95 1 26288 96 1 26299 100 2 26334
5	508	150	2	26353	200	2	26349	250 2 26348 300 2 26338 335 2 26337
5	509	375	2	26478	392	2	26488	412 2 26494 417 2 26484 426 2 26544
6	510	1	2	060 050	1	2	045 035	
3	600	F-TW	0	20	2	2631	6805	99 99
5	605	0	1	26542	10	1	26483	28 1 26466 53 2 26456 59 2 26418
5	606	65	2	26394	76	2	26354	87 2 26301 91 2 26297 96 2 26307
5	607	106	2	26318	113	2	26312	123 2 26303 130 2 26304 133 2 26336
5	608	139	2	26342	150	2	26378	163 2 26438 177 2 26490 198 2 26496
6	615	1	2	050 050	1	2	050 045	
3	700	BR-FG	2	19	1	2631	6805	15 26447 1 1
5	705	0	1	26447	0	1	26377	10 1 26356 25 1 26346 29 1 26344
5	706	29	1	26333	32	1	26323	33 1 26311 40 1 26302 50 1 26303
5	708	64	1	26298	67	1	26298	67 1 26334 71 1 26341 74 1 26349
5	709	88	1	26352	92	1	26380	92 1 26447 0 -9 26447
6	715	2	4	050 045				
3	800	RD-FG	4	8	3	30	2	3 2 1 1 2
5	805	0	1	26515	23	1	26493	62 1 26471 124 2 26468 172 3 26468
5	806	219	3	26468	239	3	26480	262 3 26503
3	900	APP-G	5	18	3	2631	7045	1 3
5	905	0	1	26538	10	2	26437	15 2 26383 20 2 26369 28 2 26359
5	906	33	2	26327	35	2	26312	41 2 26309 47 2 26309 55 2 26303
5	907	63	2	26310	66	2	26334	78 2 26365 87 2 26374 102 3 26425
5	908	107	3	26442	118	3	26475	142 3 26505
6	915	2	4	050 045	2	4	050 045	2 4 050 045
3	1000	H	1	27	3	2634	7690	99 99
4	1001	6390						
5	1005	0	1	26545	11	1	26497	20 1 26460 27 1 26438 27 1 26427
5	1006	96	2	26400	105	2	26393	110 2 26372 116 2 26356 118 2 26336
5	1007	123	2	26332	129	2	26332	139 2 26329 143 2 26333 144 2 26359
5	1008	153	3	26378	162	3	26399	207 3 26414 215 3 26450 219 3 26480
5	1009	220	3	26499	241	3	26499	300 3 26498 350 3 26511 400 3 26522
5	1010	433	3	26517	440	3	26552	
6	1015	1	2	055 045	1	2	050 045	1 2 045 050
3	1100	I	0	19	2	2639	8710	99 99
5	1105	0	1	26579	12	1	26507	23 1 26473 25 1 26466 46 1 26440
5	1106	100	1	26452	150	1	26451	200 1 26440 250 2 26427 262 2 26401
5	1107	264	2	26376	270	2	26372	278 2 26373 290 2 26371 295 2 26373
5	1108	296	2	26388	305	2	26429	316 2 26487 324 2 26518

E-H OK

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
6	1115	1	3	060	045	1	2	055 045
3	1200	J	0	29	3	2643	10335	99 99
5	1205		0	1	26644	23	1	26599 31 1 26595 42 1 26528 57 1 26485
5	1206		100	1	26474	108	1	26448 120 1 26464 139 2 26452 141 2 26442
5	1207		148	2	26432	156	2	26420 165 2 26420 170 2 26441 171 2 26462
5	1208		175	3	26499	200	3	26499 300 3 26510 400 3 26494 500 3 26492
5	1209		555	3	26492	572	3	26538 582 3 26561 606 3 26566 616 3 26550
5	1210		669	3	26568	709	3	26582 726 3 26609 736 3 26644
6	1215	2	4	055	050	1	2	055 050 1 2 045 035
3	1300	K	0	30	3	2649	11705	99 99
5	1305		0	1	26692	14	1	26539 22 1 26519 27 1 26495 35 1 26518
5	1306		50	1	26528	100	1	26531 150 1 26539 200 1 26543 250 2 26541
5	1307		290	2	26513	294	2	26495 295 2 26490 299 2 26482 307 2 26479
5	1308		315	2	26483	320	2	26491 321 2 26514 326 3 26532 350 3 26540
5	1309		400	3	26535	450	3	26535 500 3 26534 534 3 26539 553 3 26610
5	1310		573	3	26596	576	3	26584 579 3 26603 580 3 26620 583 3 26692
6	1315	1	2	045	040	1	2	050 045 1 2 045 035
3	1400	L-TW	0	30	3	2651	12858	99 99
5	1405		0	1	26728	18	1	26718 48 1 26693 100 1 26656 150 1 26626
5	1406		200	1	26604	250	1	26597 300 1 26595 350 1 26597 400 1 26588
5	1407		450	1	26596	500	1	26600 550 1 26584 600 1 26577 630 2 26578
5	1408		636	2	26533	639	2	26522 644 2 26506 649 2 26503 661 2 26502
5	1409		667	2	26521	669	2	26539 677 3 26579 705 3 26583 722 3 26632
5	1410		746	3	26633	750	3	26625 757 3 26654 800 3 26685 802 3 26741
6	1415	1	2	050	045	2	4	055 045 1 2 065 065
3	1500	RD-LM	2	11	1	2650	12858	0 26569 1 0
5	1505		0	1	26567	0	1	26530 3 1 26530 6 1 26507 12 1 26495
5	1506		16	1	26495	18	1	26488 26 1 26505 33 1 26519 34 1 26570
5	1507		0	-9	26567			
6	1515	1	2	055	055			
3	1550	RD-LM	4	19	2	16	1	2 2 2 2
5	1555		0	1	26724	38	1	26703 88 1 26675 140 1 26639 150 1 26633
5	1556		200	1	26609	250	1	26599 300 1 26595 350 1 26596 400 1 26600
5	1557		450	1	26606	500	1	26608 550 1 26598 600 1 26587 647 1 26589
5	1558		665	2	26591	683	2	26593 735 2 26630 757 2 26634
3	1600	M-APP	5	29	5	2652	12906	2 4
5	1605		0	1	26721	50	1	26684 100 1 26635 150 1 26603 200 1 26586
5	1606		250	1	26580	300	1	26596 350 1 26592 400 1 26594 450 1 26602
5	1607		500	1	26596	550	1	26577 600 1 26572 614 2 26568 618 3 26536
5	1608		620	3	26520	626	3	26508 634 3 26503 645 3 26504 648 3 26514
5	1609		652	4	26542	656	5	26569 670 5 26582 680 5 26620 701 5 26634
5	1610		725	5	26634	729	5	26624 733 5 26666 740 5 26758
6	1615	1	2	045	035	2	4	055 045 2 4 055 045 1 2 070 050
3	1700	N	0	34	3	2652	13320	99 99
5	1705		0	1	26737	13	1	26673 27 1 26614 42 1 26591 56 1 26601

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
5 1706	100	1 26596	150	1 26602	200	1 26605	250	1 26613 300 1 26612
5 1707	352	1 26603	400	1 26604	450	1 26610	500	1 26598 523 1 26573
5 1708	550	1 26577	585	2 26589	597	2 26564	601	2 26529 605 2 26518
5 1709	611	2 26512	619	2 26521	624	2 26531	625	2 26543 631 3 26598
5 1710	650	3 26589	694	3 26584	703	3 26625	713	3 26639 733 3 26652
5 1711	740	3 26645	747	3 26698	757	3 26716	762	3 26736
6 1715	2 4 045 040	1 2 055 055	1 2 070 055					
3 1800	0 0 19	3 2656	14370	99 99				
5 1805	0	1 26774	50	1 26642	85	1 26625	100	1 26619 120 2 26602
5 1806	121	2 26557	126	2 26556	132	2 26554	140	2 26554 145 2 26566
5 1807	146	2 26571	150	2 26603	158	3 26624	200	3 26613 250 3 26621
5 1808	281	3 26627	285	3 26647	294	3 26683	314	3 26695
6 1810	1 2 060 050	2 4 060 050	1 2 055 045					
3 2100	Q-TW 1 23	3 2658	14762	99 99				
4 2101	5370							
5 2105	0	1 26698	14	1 26683	28	1 26609	39	1 26586 39 1 26585
5 2106	42	1 26573	56	1 26565	70	1 26572	79	1 26586 80 1 26588
5 2107	93	2 26618	110	2 26628	148	2 26641	203	2 26634 203 2 26634
5 2108	456	2 26684	476	2 26696	481	3 26692	489	3 26657 539 3 26663
5 2109	639	3 26691	689	3 26707	739	3 26731		
6 2115	1 2 055 055	1 2 050 040	1 2 065 065					
3 2200	BR-QR 2 16	1 2657	14762	30 26683	1 1			
5 2205	0	1 26683	0	1 26609	4	1 26605	11	1 26592 12 1 26588
5 2206	17	1 26577	29	1 26574	42	1 26558	49	1 26575 53 1 26587
5 2207	54	1 26598	58	1 26615	70	1 26613	82	1 26615 82 1 26683
5 2208	0 -9	26683						
6 2215	2 4 055 040							
3 2220	PR-QR 3 2							
5 2225	3	26560	2	26683				
3 2250	QR-RD 4 20 4 32			1 3		1 1 1 2		2
5 2255	0	1 26750	100	1 26736	200	1 26722	300	1 26714 400 1 26714
5 2256	500	1 26714	655	2 26713	696	2 26713	737	3 26713 800 3 26716
5 2257	900	3 26716	1000	3 26710	1093	4 26700	1100	4 26633 1150 4 26665
5 2258	1200	4 26679	1250	4 26691	1300	4 26707	1350	4 26731 1400 4 26766
3 2300	5 40 4 2660	14815	2 4					
5 2305	64	1 26753	65	1 26749	83	1 26746	84	1 26749 100 1 26751
5 2306	150	1 26742	192	1 26718	213	1 26706	245	1 26697 250 1 26691
5 2307	271	1 26653	300	1 26643	350	1 26637	400	1 26637 450 1 26638
5 2308	500	1 26646	535	2 26643	536	3 26634	538	3 26616 543 3 26586
5 2309	547	3 26578	551	3 26576	556	3 26579	560	3 26582 561 3 26603
5 2310	568	4 26634	600	4 26638	650	4 26653	700	4 26652 750 4 26647
5 2311	800	4 26657	850	4 26659	900	4 26663	950	4 26669 1000 4 26678
5 2312	1050	4 26707	1100	4 26733	1150	4 26742	1200	4 26741 1226 4 26759
6 2315	1 2 050 040	1 2 055 055	1 2 055 055	1 2 050 040				
3 2400	S 0 20	3 2661	15615	99 99				

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8		
5 2405	0	1 26790	10	1 26711	21	1 26657	50	2 26643	54	2 26607
5 2406	59	2 26598	68	2 26601	76	2 26606	79	2 26614	80	2 26629
5 2407	84	3 26661	100	3 26664	150	3 26663	200	3 26664	250	3 26672
5 2408	300	3 26669	350	3 26685	400	3 26712	450	3 26769	500	3 26798
6 2415	1	2 080 065	1	2 060 060	1	2 045 040				
3 2500	T-TW	0	19	3 2663	16324	99	99			
5 2505	0	1 26793	10	1 26767	22	1 26699	55	1 26679	73	2 26679
5 2506	79	2 26669	86	2 26646	89	2 26627	92	2 26617	97	2 26617
5 2507	103	2 26621	105	2 26626	108	2 26644	115	3 26689	139	3 26708
5 2508	162	3 26747	177	3 26765	200	3 26763	220	3 26796		
6 2515	1	2 075 060	1	2 055 050	2	4 065 050				
3 2600	RO-TU	2	20	1 2663	16324	15	26783	1	1	
5 2605	0	1 26783	0	1 26771	6	1 26757	15	1 26705	18	1 26694
5 2606	31	1 26682	46	1 26676	52	1 26641	53	1 26640	56	1 26620
5 2607	65	1 26618	75	1 26626	78	1 26633	78	1 26634	83	1 26669
5 2608	93	1 26695	104	1 26732	108	1 26760	108	1 26783	0	-9 26783
6 2615	1	2 060 060								
3 2620	PR-TU	3	4			4				
5 2625	2	26624	2	26680	4	26680	4	26782		
3 2700	APP-U	5	24	5 2664	16467	1	5			
5 2705	0	1 26795	4	1 26794	23	1 26724	41	1 26686	42	2 26686
5 2706	76	3 26680	82	3 26634	83	3 26633	87	3 26625	95	3 26626
5 2707	100	3 26625	106	3 26634	107	3 26640	112	4 26683	126	4 26689
5 2708	150	5 26694	200	5 26705	235	5 26710	235	5 26726	242	5 26748
5 2709	250	5 26750	300	5 26780	356	5 26812	373	5 26820		
6 2715	1	2 080 080	1	2 080 080	1	2 060 060	1	2 055 045	1	2 055 045

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER FLOODWAY

F-U

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BR-FG	WARNING	STATION	19	IS LESS THAN	STATION	18	
BO-LM	WARNING	STATION	11	IS LESS THAN	STATION	10	
BR-QR	WARNING	STATION	16	IS LESS THAN	STATION	15	
RO-TU	WARNING	STATION	20	IS LESS THAN	STATION	19	

INPUT SUMMARY FOR: COVE CREEK LOWER FLOODWAY

E-11

25 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 25 TYPE 3 CARQS

KEPT 25 CROSS SECTIONS FOR EDITING

25 " " VALID FOR PROPERTY COMPUTATIONS

25 " " " " PROFILE "

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

7 77777
8 88888

1
1



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER FLOODWAY E-U
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN:

K	; KU/KD < 0.7 OR > 1.4	ALERTED USER
M-APP	; KU/KD < 0.7 OR > 1.4	ALERTED USER
M-APP	; QRD > QT	ASSUMED WSU = HIN
O	; KU/KD < 0.7 OR > 1.4	ALERTED USER
Q-TW	; KU/KD < 0.7 OR > 1.4	ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER FLOODWAY E-U
 PAGE 1 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY E-U

=====										
SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*		
=====										
E	AT	6020	0	6760.	1050.	112648.	1.01	47.	260.	
2638.58	0.65			2639.23	6.44	0.55				*IS*

F-TW	AT	6805	785	6760.	765.	96761.	1.00	61.	157.	
2641.58	1.22	3.29	0.28	2642.80	8.84	0.55	-0.009			*XS*
===== BEGIN BRIDGE ANALYSIS =====										
BR-FG	AT	6805		6760.	736.	90231.	1.00	0.	92.	
2641.58	1.31	...	...1...	(-0.01)	9.19	0.56				*B0*

EMBANKMENT OVERFLOW (CFS)		LEFT	0.	RIGHT	0.					*RG*

APP-G	AT	7045	240	6760.	706.	87691.	1.00	11.	102.	
2642.77	1.43	1.29	0.10	2644.19	9.57	0.61	-0.000			*AS*

M = 0.0	E = 1.00	K* = 0.01	707.	87880.	1.00	11.	102.			
2642.78	1.42		2544.20	9.56	0.60					*AS*
===== END BRIDGE ANALYSIS =====										
H	AT	7690	645	6390.	854.	112905.	1.14	80.	180.	
2646.03	0.99	2.81	0.0	2647.02	7.49	0.47	0.008			*XS*

I	AT	8710	1020	6390.	1094.	132755.	1.08	160.	315.	
2649.22	0.57	2.78	0.0	2649.80	5.84	0.39	0.000			*XS*

J	AT	10335	1625	6390.	1383.	136206.	1.08	120.	469.	
2653.11	0.36	3.67	0.0	2653.47	4.62	0.42	0.005			*XS*

K	AT	11705	1370	6390.	859.	90199.	1.00	250.	425.	
2657.42	0.86	4.55	0.25	2658.28	7.44	0.54	0.003			*XS*

L-TW	AT	12858	1153	6390.	840.	99022.	1.13	553.	677.	
2662.61	1.01	5.27	0.07	2663.63	7.61	0.50	0.001			*XS*
===== BEGIN BRIDGE ANALYSIS =====										
BO-LM	AT	12858		0.	211.	11207.	1.00	0.	34.	
2657.00	0.0	...	...3...	(-0.01)	0.0	0.0				*B0*

EMBANKMENT OVERFLOW (CFS)		LEFT	11007.	RIGHT	1144.					*RG*

M-APP	AT	12906	48	6390.	1704.	219304.	1.12	347.	656.	
2663.47	0.25	0.09	0.0	2663.72	3.75	0.28	-0.000			*AS*

M = ****	E = ****	K* = ****	1704.	219304.	1.12	347.	656.			
2663.47	0.25		2663.72	3.75	0.28					*AS*
===== END BRIDGE ANALYSIS =====										
N	AT	13320	414	6390.	1624.	161058.	1.01	300.	631.	
2663.97	0.24	0.48	0.0	2664.22	3.93	0.33	0.019			*XS*

O	AT	14370	1050	6390.	789.	81118.	1.02	120.	241.	
2666.86	1.04	3.28	0.40	2667.90	8.10	0.50	0.001			*XS*

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER FLOODWAY
 PAGE 2 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY E-U

=====

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*
Q-TW	AT 14762	/ 392	/ 5370.	/ 1239.	/ 142493.	/ 1.00	/ 16.	/ 186.
2668.78	/ 0.29	/ 1.17	/ 0.0	/ 2669.07	/ 4.33	/ 0.25	/ 0.000	*XS*

===== BEGIN BRIDGE ANALYSIS =====

BR-QR	AT 14762	/	/ 3725.	/ 626.	/ 63152.	/ 1.00	/ 0.	/ 82.
2668.30	/ 0.55	/	/ ...3... (0.047)	/	/ 5.95	/ 0.35	/	*R0*

----- EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 1641. / *R6* -----

P	AT 14815	/ 53	/ 5370.	/ 1195.	/ 117264.	/ 1.02	/ 535.	/ 781.
2668.85	/ 0.33	/ 0.09	/ 0.02	/ 2669.18	/ 4.53	/ 0.38	/ -0.000	*AS*

M = ****	/ E = ****	/ K* = ****	/ 1314.	/ 138613.	/ 1.02	/ 535.	/ 781.
2669.38	/ 0.26	/	/ 2669.64	/ 4.09	/ 0.32	/	*AS*

===== END BRIDGE ANALYSIS =====

S	AT 15615	/ 800	/ 5370.	/ 1007.	/ 99695.	/ 1.00	/ 50.	/ 231.
2670.96	/ 0.44	/ 1.67	/ 0.09	/ 2671.40	/ 5.33	/ 0.45	/ 0.001	*XS*

T-TW	AT 16324	/ 709	/ 5370.	/ 758.	/ 71822.	/ 1.31	/ 17.	/ 151.
2673.53	/ 1.02	/ 2.86	/ 0.29	/ 2674.55	/ 7.08	/ 0.54	/ 0.001	*XS*

===== BEGIN BRIDGE ANALYSIS =====

90-TJ	AT 16324	/	/ 5370.	/ 599.	/ 50246.	/ 1.00	/ 10.	/ 104.
2673.53	/ 1.25	/	/ ...1... (0.056)	/	/ 8.96	/ 0.62	/	*R0*

NO EMBANKMENT CROSS SECTION

APP-U	AT 16467	/ 143	/ 5370.	/ 847.	/ 83977.	/ 1.02	/ 76.	/ 202.
2674.59	/ 0.64	/ 0.68	/ 0.0	/ 2675.23	/ 6.34	/ 0.35	/ -0.001	*AS*

M = 0.28	/ E = 0.0	/ K* = 0.65	/ 969.	/ 103804.	/ 1.01	/ 76.	/ 202.
2675.56	/ 0.48	/	/ 2676.04	/ 5.54	/ 0.29	/	*AS*

===== END BRIDGE ANALYSIS =====

END OF THIS PROFILE

SUMMARY OF ENCROACHMENTS FOR: COVE CREEK LOWER FLOODWAY F-U
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY E-U (PROFILE
 NUMBER 1; UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1; UPSTREAM COMPUTATIONS). PAGE 1 OF 1

CARD 3 SECTID	SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
F	500	1	HOR	YES	YES	*****	0.87	*****	213
F-TW	600	0	HOR	YES	YES	*****	0.60	*****	96
BR-FG	700	2	N.A.	N.A.	N.A.	*****	0.60	*****	89
RD-FG	800	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-G	900	5	HOP	YES	YES	*****	0.29	*****	91
H	1000	1	HOR	YES	YES	*****	0.16	*****	100
I	1100	0	HOR	YES	YES	*****	1.01	*****	155
J	1200	0	VHD	YES	YES	1.00	1.07	*****	349
K	1300	0	VHD	YES	YES	1.00	1.53	*****	175
L-TW	1400	0	VHD	YES	CONS	1.00	1.84	*****	124
RO-LM	1500	2	N.A.	N.A.	N.A.	*****	-3.77	*****	34
RD-LM	1550	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
M-APP	1600	5	VHD	YES	CONS	1.00	1.67	*****	309
N	1700	0	VHD	YES	CONS	1.00	1.42	*****	331
O	1800	0	VHD	YES	YES	1.00	1.10	*****	121
Q-TW	2100	1	VHD	CONS	YES	1.00	1.41	*****	170
BR-OR	2200	2	N.A.	N.A.	N.A.	*****	0.93	*****	71
PR-OR	2220	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
QR-RD	2250	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
R	2300	5	VHD	YES	YES	1.00	0.57	*****	246
S	2400	0	VHD	CONS	YES	1.00	1.37	*****	181
T-TW	2500	0	HOR	YES	YES	*****	0.65	*****	134
BO-TU	2500	2	N.A.	N.A.	N.A.	*****	0.65	*****	91
PR-TU	2620	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
APP-U	2700	5	VHD	YES	YES	1.00	-0.02	*****	126

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	COVE CREEK LOWER	10.50.100.500	W/BRIDGE	AS-AV	7	02 05 10	
2	2	272432	272634	272721	272871			
3	5700	AS-TA	12 14	3 2716	28785	99 99		
4	5701	2240	3870	4640	6700			
5	5705	0	1 27307	4 1 27294	27 1 27280	42 2 27267	46 2 27238	
5	5706	52	2 27190	58 2 27166	59 2 27161	62 2 27150	66 2 27147	
5	5707	71	2 27151	75 2 27155	78 3 27197	122 3 27217	144 3 27276	
5	5709	172	3 27307					
5	5715	1	2 035 035	1 2 055 050	1 2 045 045			
3	5800	BRIDGE	2 15	1 2717	28785	30 27268	1 1	
5	5805	0	1 27265	0 1 27168	1 1 27165	1 1 27162	4 1 27159	
5	5806	12	1 27154	18 1 27157	23 1 27162	23 1 27164	25 1 27192	
5	5807	31	1 27194	43 1 27205	47 1 27202	47 1 27271	0 -9 27265	
6	5815	1	2 055 055					
3	5820	PIER	3 2					
5	5825	1	27175	1 27268				
3	5850	ROAD	4 7 3 28	1 3	1 1 1		2	
5	5855	0	1 27311	6 1 27295	50 2 27287	98 3 27284	150 3 27279	
5	5856	181	3 27279	200 3 27311				
3	5900	AT	3 23 4 2718	28890 1 3				
5	5905	0	1 27314	9 1 27304	16 1 27253	21 1 27216	22 2 27212	
5	5906	27	2 27193	31 2 27170	37 2 27166	43 2 27165	49 2 27169	
5	5907	54	2 27172	57 2 27180	64 2 27191	69 3 27212	71 4 27221	
5	5908	76	4 27212	97 4 27219	107 4 27240	134 4 27273	158 4 27280	
5	5909	163	4 27268	172 4 27295	185 4 27312			
6	5915	1	2 055 045	1 2 055 045	1 2 055 045	1 2 045 040		
3	6000	AU	0 17 1 2722	29625 99 99				
5	6005	0	1 27358	8 1 27297	19 1 27249	31 1 27214	36 1 27214	
5	6006	46	1 27211	54 1 27209	59 1 27215	61 1 27230	67 1 27248	
5	6007	85	1 27275	112 1 27307	127 1 27338	145 1 27335	150 1 27343	
5	6008	157	1 27346	160 1 27359				
5	6015	1	2 050 050					
3	6100	AV	1 18 4 2725	30015 99 99				
4	6101	2190	3720 4460	6450				
5	6105	0	1 27392	19 1 27336	21 2 27303	28 2 27282	38 3 27306	
5	6106	57	4 27291	62 4 27261	66 4 27243	69 4 27238	75 4 27236	
5	6107	83	4 27237	86 4 27244	91 4 27262	95 4 27285	100 4 27304	
5	6108	106	4 27361	116 4 27383	128 4 27387			
5	6115	1	2 055 055	1 2 055 055	1 2 050 035	1 2 050 050		

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-4V

SECID	ERROR SEVERITY	FIRST VARIABLE NO.	ERROR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
BRIDG	WARNING	STATION 15	IS LESS THAN	STATION 14	

INPUT SUMMARY FOR: COVE CREEK LOWER 10.50,100.500 W/BRIDGE AS-AV

7 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 7 TYPE 3 CARDS

KEPT 7 CROSS SECTIONS FOR EDITING

7 " " VALID FOR PROPERTY COMPUTATIONS

7 " " " " PROFILE " "

USGS STEP-BACKWATER PROGRAM - VERSION 77.190 *** PAGE COUNT= 8,DATE= 1/28/79

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AU: 1 KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
45-TW AT 28785 /   0 / 2280. / 401. / 35299. / 1.08 / 45. / 137.
      2724.32 / 0.54 /           / 2724.86 / 5.69 / 0.43 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDGE AT 28785 /   / 2280. / 266. / 20707. / 1.00 / 0. / 47.
      2724.32 / 1.14 / ...1... (0.026) / 8.57 / 0.59 / *BO*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG*
=====
3T AT 28890 / 105 / 2280. / 437. / 44769. / 1.14 / 17. / 113.
      2724.73 / 0.48 / 0.35 / 0.0 / 2725.21 / 5.21 / 0.40 / -0.001 *AS*
=====
    
```

PRINT SUSPENDED BY OPERATOR

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER (10.50,100.500 W/BRIDGE AS-AV
 PAGE 1 OF 1. PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AS-TW AT 28785 / 0 / 2280. / 401. / 35299. / 1.08 / 45. / 132.
2724.32 / 0.54 / / 2724.86 / 5.69 / 0.43 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDGE AT 28785 / / 2280. / 266. / 20707. / 1.00 / 0. / 47.
2724.32 / 1.14 / ...1... (0.026) / 8.57 / 0.59 / *B0*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG*
=====
AT AT 28890 / 105 / 2280. / 437. / 44769. / 1.14 / 17. / 113.
2724.73 / 0.48 / 0.35 / 0.0 / 2725.21 / 5.21 / 0.40 / -0.001 *AS*
=====
M = 0.19 / E = 0.06 / K* = 0.29 / 477.0 / 50399. / 1.14 / 16. / 116.
2725.13 / 0.41 / / 2725.54 / 4.78 / 0.36 / *AS*
===== END BRIDGE ANALYSIS =====
AU AT 29625 / 735 / 2280. / 328. / 25191. / 1.00 / 12. / 89.
2727.97 / 0.75 / 3.01 / 0.17 / 2728.72 / 6.96 / 0.59 / 0.002 *XS*
=====
AV AT 30015 / 390 / 2190. / 297. / 23889. / 1.16 / 21. / 101.
2731.09 / 0.98 / 3.24 / 0.11 / 2732.07 / 7.38 / 0.61 / 0.003 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 W/RIDGE AS-AV
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AT : WSU > BELMX (1)

CHECKED QRO (2)

AU : KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV
 PAGE 1 OF 1, PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AS-TW AT 28785 / 0 / 3870. / 586. / 60194. / 1.03 / 42. / 139.
2726.34 / 0.70 / / / 2727.04 / 6.60 / 0.44 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDGE AT 28785 / / 3522. / 358. / 23606. / 1.00 / 0. / 47.
2727.10 / 1.51 / ...2... (0.025) / 9.84 / 0.59 / *RQ*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 16. / RIGHT 305. / *RG*
=====
AT AT 28890 / 105 / 3870. / 651. / 76865. / 1.15 / 14. / 129.
2726.75 / 0.63 / 0.34 / 0.0 / 2727.38 / 5.94 / 0.41 / -0.001 *AS*
=====
M = **** / E = **** / K* = **** / 985. / 127193. / 1.21 / 11. / 171.
2729.08 / 0.29 / / 2729.37 / 3.93 / 0.26 / *AS*
===== END BRIDGE ANALYSIS =====
AU AT 29625 / 735 / 3870. / 563. / 50775. / 1.00 / 7. / 111.
2730.56 / 0.73 / 1.70 / 0.22 / 2731.29 / 6.87 / 0.52 / 0.000 *XS*
=====
AV AT 30015 / 390 / 3720. / 445. / 43237. / 1.06 / 19. / 103.
2732.91 / 1.16 / 2.56 / 0.21 / 2734.06 / 8.36 / 0.59 / 0.001 *XS*
=====
    
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 12, DATE= 1/28/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV
PROFILE NUMBER 3; UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AU 1 KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW // REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *10*
=====
AS-TW AT 28785 / 0 / 4640. / 674. / 73614. / 1.03 / 36. / 143.
2727.21 / 0.76 / / 2727.97 / 6.89 / 0.44 / *1S*
=====
BEGIN BRIDGE ANALYSIS
=====
BRIDGE AT 28785 / / 3850. / 358. / 23606. / 1.00 / 0. / 47.
2727.10 / 1.80 / ...3... (0.025) / 10.76 / 0.64 / *R0*
=====
EMBRANKMENT OVERFLOW (CFS) / LEFT 103. / RIGHT 618. / *RG*
=====
AT AT 28890 / 105 / 4640. / 756. / 91159. / 1.21 / 13. / 166.
2727.60 / 0.71 / 0.34 / 0.0 / 2728.30 / 6.13 / 0.42 / 0.000 *AS*
M = **** / E = **** / K* = **** / 1082. / 144930. / 1.20 / 10. / 173.
2729.60 / 0.34 / / 2730.02 / 4.29 / 0.28 / *AS*
=====
END BRIDGE ANALYSIS
=====
AU AT 29625 / 735 / 4640. / 636. / 60347. / 1.00 / 6. / 115.
2731.25 / 0.83 / 1.81 / 0.24 / 2732.07 / 7.30 / 0.53 / 0.001 *XS*
=====
AV AT 30015 / 390 / 4460. / 502. / 51877. / 1.05 / 19. / 103.
2733.59 / 1.29 / 2.58 / 0.23 / 2734.88 / 8.88 / 0.60 / 0.001 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10.50,100.500 W/BRIDGE AS-AV
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECTION: ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AT ; MAX QBD < QT (3)

CHECKED QRD

AT ; MAX QTC < QT (3)

ASSUMED WSU = GMAX

AT ; RIGHT BANK EXTENDED

ALERTED USER

AU ; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 W/BRIDGE AS-AV
 PAGE 1 OF 1. PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   CG /   V /   FN /   ACC *ID*
=====
AS-TW AT 28785 / 0 / 6700. / 855. / 99483. / 1.06 / 15. / 154.
      2728.71 / 1.02 / / / 2729.73 / 7.84 / 0.48 / *IS*
=====
                        BEGIN BRIDGE ANALYSIS
=====
BRIDG AT 28785 / / 4060. / 358. / 23606. / 1.00 / 0. / 47.
      2727.10 / 2.00 / ...3... (10.025) / 11.35 / 0.67 / *B0*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 609. / RIGHT 1881. / *RG*
=====
AT AT 28890 / 105 / 6700. / 1015. / 132663. / 1.21 / 11. / 171.
      2729.25 / 0.82 / 0.36 / 0.0 / 2730.08 / 6.60 / 0.43 / -0.001 *AS*
=====
      M = **** / E = **** / K* = **** / 1380. / 200784. / 1.19 / 0. / 185.
      2731.40 / 0.43 / / / 2731.83 / 4.85 / 0.29 / *AS*
=====
                        END BRIDGE ANALYSIS
=====
AU AT 29625 / 735 / 6700. / 832. / 36507. / 1.00 / 4. / 123.
      2732.97 / 1.01 / 1.85 / 0.29 / 2733.98 / 8.05 / 0.54 / -0.000 *XS*
=====
AV AT 30015 / 390 / 6450. / 642. / 74885. / 1.06 / 14. / 105.
      2735.18 / 1.66 / 2.54 / 0.33 / 2736.84 / 10.04 / 0.61 / 0.001 *XS*
=====
    
```

END OF THIS PROFILE

HASP-II*A*RM89.PR1.....END JOB 1824.....8.34.07 AM 30 JAN 78.....BOX 0BU.....AG40BUL M.....JACKSONRM89.PR1*A*HASP-II
HASP-II*A*RM89.PR1.....END JOB 1824.....8.34.07 AM 30 JAN 78.....BOX 0BU.....AG40BUL M.....JACKSONRM89.PR1*A*HASP-II
HASP-II*A*RM89.PR1.....END JOB 1824.....8.34.07 AM 30 JAN 78.....BOX 0BU.....AG40BUL M.....JACKSONRM89.PR1*A*HASP-II
HASP-II*A*RM89.PR1.....END JOB 1824.....8.34.07 AM 30 JAN 78.....BOX 0BU.....AG40BUL M.....JACKSONRM89.PR1*A*HASP-II
HASP-II*A*RM89.PR1.....END JOB 1824.....8.34.07 AM 30 JAN 78.....BOX 0BU.....AG40BUL M.....JACKSONRM89.PR1*A*HASP-II

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
1	1	COVE CREEK LOWER 10,500 BRIDGE COMPOSITE	AM-AS	13	2	02	05	10
2	2	270797 271096						
3	4900	AM	1	18	3	2703	25875	99 99
4	4901	2280	6700					
5	4905	0	1	27170	36	1	27137	52 1 27129 100 1 27097 126 1 27069
5	4906	150	1	27061	188	2	27041	193 2 27023 207 2 27019 211 2 27010
5	4907	218	2	27011	220	2	27016	225 3 27057 250 3 27067 300 3 27080
5	4908	350	3	27107	375	3	27134	396 3 27168
6	4915	2	4	065 045	1	2	055 050	1 2 045 035
3	4950	AM+	5	0	18	3	2704	25988 99 99
5	4955	0	1	27175	36	1	27142	52 1 27134 100 1 27102 126 1 27074
5	4956	150	1	27066	188	2	27046	193 2 27028 207 2 27024 211 2 27015
5	4957	218	2	27016	220	2	27021	225 3 27062 250 3 27072 300 3 27085
5	4958	350	3	27112	375	3	27139	396 3 27173
6	4965	2	4	065 045	1	2	055 050	1 2 045 035
3	5000	COMP	0	29	3	2705	25994	99 99
5	5005	0	1	27178	50	1	27140	100 1 27114 150 1 27101 200 2 27099
5	5006	200	2	27042	205	2	27042	205 2 27031 207 2 27027 211 2 27025
5	5007	218	2	27016	226	2	27020	233 2 27027 235 2 27032 238 2 27045
5	5008	240	2	27047	240	2	27085	241 3 27096 250 3 27069 275 3 27096
5	5009	275	3	27066	300	3	27062	312 3 27066 362 3 27072 387 3 27085
5	5010	387	3	27097	412	3	27097	447 3 27145 462 3 27182
6	5015	1	2	050 040	1	2	055 045	1 2 045 030
3	5050	AM-	5	0	20	3	2705	26005 99 99
5	5055	0	1	27174	22	1	27145	50 1 27120 86 1 27083 91 2 27060
5	5056	100	2	27043	101	2	27032	105 2 27026 109 2 27024 114 2 27023
5	5057	121	2	27033	125	2	27049	133 2 27058 140 3 27075 150 3 27066
5	5058	200	3	27061	250	3	27065	300 3 27092 335 3 27140 350 3 27177
6	5065	1	2	055 045	1	2	055 045	1 2 045 030
3	5100	AM	0	22	4	2705	26048	99 99
5	5105	0	1	27179	22	1	27150	50 1 27125 86 1 27088 91 1 27065
5	5106	92	2	27063	100	2	27048	101 2 27037 105 2 27031 109 2 27029
5	5107	114	2	27028	121	2	27038	125 2 27054 132 3 27062 133 3 27063
5	5108	140	4	27080	150	4	27069	200 4 27066 250 4 27072 300 4 27097
5	5109	335	4	27145	350	4	27182	
6	5115	1	2	055 045	1	2	055 045	1 2 045 030
3	5200	AM	0	17	2	2707	26750	99 99
5	5205	0	1	27205	127	1	27111	150 1 27103 155 2 27097 169 2 27062
5	5206	173	2	27058	181	2	27053	185 2 27053 199 2 27061 194 2 27093
5	5207	200	2	27118	209	2	27140	211 2 27147 214 2 27153 225 2 27170
5	5208	227	2	27185	247	2	27204	
6	5215	1	2	045 035	1	2	055 050	
3	5300	AM	0	22	4	2712	27365	99 99
5	5305	0	1	27271	40	1	27261	88 1 27259 100 1 27257 150 1 27244
5	5306	200	1	27242	250	1	27237	300 1 27238 350 2 27235 400 2 27207

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8			
5	5307	450	3 27152	451	3 27142	456	3 27138	457	3 27119	465	3 27122
5	5308	471	3 27118	483	3 27109	486	4 27128	550	4 27162	556	4 27211
5	5309	557	4 27236	590	4 27270						
6	5315	1 2 035	035 1	2 050	040 1	2 055	045 1	2 055	050		
3	5400	AO-TW	0 22	4 2716	28514	99	99				
5	5405	0	1 27291	30	1 27263	44	1 27259	50	1 27246	78	1 27217
5	5406	94	1 27195	105	2 27184	111	2 27169	112	2 27149	118	2 27144
5	5407	125	2 27141	131	2 27142	135	2 27148	137	2 27162	140	2 27208
5	5408	147	3 27235	167	3 27233	173	3 27230	178	4 27268	200	4 27276
5	5409	250	4 27288	267	4 27291						
6	5415	1 2 065	045 1	2 055	045 1	2 035	035 1	2 050	050		
3	5500	BRIDGE	2 20	1 2717	28514	15	27223	2	0		
5	5505	0	1 27224	0	1 27202	5	1 27197	8	1 27186	13	1 27160
5	5506	15	1 27152	18	1 27151	20	1 27152	20	1 27164	26	1 27158
5	5507	27	1 27153	31	1 27144	37	1 27134	44	1 27126	45	1 27142
5	5508	45	1 27207	47	1 27208	47	1 27221	23	1 27224	0	-9 27224
6	5515	1 2 050	050								
3	5520	PIER	3 2								
5	5525	1	27164	1	27224						
3	5550	ROAD	4 9	3 28	1	3		1	1	1	
5	5555	0	1 27288	27	1 27274	50	1 27260	92	2 27242	139	3 27239
5	5556	150	3 27242	200	3 27252	250	3 27273	296	3 27296		
3	5600	AR	5 20	3 2716	28602	1	3				
5	5605	0	1 27300	6	1 27279	27	1 27287	44	1 27285	50	1 27250
5	5606	56	1 27212	74	2 27202	94	2 27170	96	2 27152	99	2 27143
5	5607	107	2 27146	114	2 27148	118	2 27153	119	2 27174	126	3 27201
5	5608	137	3 27215	148	3 27230	162	3 27259	200	3 27283	216	3 27301
6	5615	1 2 050	040 1	2 050	055 1	2 045	040				
3	5700	AS-TW	0 16	3 2716	28785	99	99				
5	5705	0	1 27307	4	1 27294	27	1 27280	42	2 27267	46	2 27238
5	5706	52	2 27190	58	2 27166	59	2 27161	62	2 27150	66	2 27147
5	5707	71	2 27151	75	2 27165	78	3 27197	122	3 27217	144	3 27276
5	5708	172	3 27307								
6	5715	1 2 035	035 1	2 055	050 1	2 045	045				

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BRIDG	WARNING	STATION	19	IS LESS THAN	STATION	18	
BRIDG	WARNING	STATION	20	IS LESS THAN	STATION	19	

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 4, DATE= 1/21/78

INPUT SUMMARY FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE AM-AS

13 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 13 TYPE 3 CARDS

KEPT 13 CROSS SECTIONS FOR EDITING

13 " " VALID FOR PROPERTY COMPUTATIONS

13 " " " " PROFILE "

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 14. DATE= 1/21/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,500 BRIDGE COMPOSITE 4M-A5
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AO ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

AP ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

AQ-TW; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

AR ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

AR ; WSU > BELMX (1)

CHECKED (80) (2)

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.500 BRIDGE COMPOSITE AM-A5
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AM AT 25875 / 0 / 2280. / 440. / 28271. / 1.59 / 116. / 299.
2707.97 / 0.66 / / 2708.63 / 5.18 / 0.55 / *IS*
-----
AM+.5 AT 25988 / 113 / 2280. / 495. / 32788. / 1.53 / 113. / 305.
2708.76 / 0.51 / 0.63 / 0.0 / 2709.27 / 4.61 / 0.48 / -0.002 *XS*
-----
COMP AT 25994 / 6 / 2280. / 464. / 39601. / 1.05 / 200. / 387.
2708.89 / 0.39 / 0.02 / 0.0 / 2709.28 / 4.91 / 0.39 / -0.008 *XS*
-----
AN-.5 AT 26005 / 11 / 2280. / 614. / 53950. / 1.03 / 78. / 298.
2709.09 / 0.22 / 0.03 / 0.0 / 2709.31 / 3.71 / 0.43 / -0.001 *XS*
-----
AN AT 26048 / 43 / 2280. / 507. / 40330. / 1.08 / 83. / 289.
2709.13 / 0.34 / 0.10 / 0.06 / 2709.47 / 4.50 / 0.53 / -0.001 *XS*
-----
AO AT 26760 / 712 / 2280. / 309. / 23492. / 1.08 / 105. / 204.
2712.75 / 0.91 / 3.91 / 0.29 / 2713.67 / 7.37 / 0.64 / 0.003 *XS*
-----
AP AT 27865 / 1105 / 2280. / 548. / 47111. / 1.18 / 417. / 553.
2718.54 / 0.32 / 5.19 / 0.0 / 2718.86 / 4.16 / 0.37 / 0.003 *XS*
-----
AQ-TW AT 28514 / 649 / 2280. / 242. / 21361. / 1.15 / 81. / 141.
2721.26 / 1.59 / 3.35 / 0.64 / 2722.85 / 9.42 / 0.77 / 0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDG AT 28514 / / 2283. / 282. / 16845. / 1.00 / 0. / 47.
2722.40 / 1.02 / ...2... (0.021) / 8.11 / 0.57 / *80*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG*
-----
AR AT 28602 / 88 / 2280. / 381. / 30880. / 1.09 / 53. / 148.
2722.94 / 0.61 / 0.69 / 0.0 / 2723.54 / 5.98 / 0.46 / -0.001 *AS*
-----
M = **** / F = **** / K = **** / 457. / 40101. / 1.07 / 52. / 151.
2723.72 / 0.41 / / 2724.13 / 4.99 / 0.36 / *AS*
===== END BRIDGE ANALYSIS =====
AS-TW AT 28785 / 183 / 2280. / 401. / 35350. / 1.08 / 45. / 132.
2724.32 / 0.54 / 0.67 / 0.06 / 2724.87 / 5.68 / 0.43 / -0.000 *XS*
=====
    
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 16. DATE= 1/21/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10.500 BRIDGE COMPOSITE AM-AS
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AD	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AP	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AQ-TW	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AR	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AR	: MAX QBO < QT (3)	:	CHECKED QRD

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.500 BRIDGE COMPOSITE AM-AS
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / RFW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN / ACC *ID*
=====
AM AT 25875 / 0 / 6700. / 1115. / 105430. / 1.12 / 81. / 352.
  2710.95 / 0.63 / / 2711.58 / 6.01 / 0.46 / *IS*
-----
AM-.5 AT 25988 / 113 / 6700. / 1103. / 103738. / 1.12 / 82. / 352.
  2711.41 / 0.65 / 0.46 / 0.01 / 2712.05 / 6.08 / 0.47 / -0.000 *XS*
-----
COMP AT 25994 / 6 / 6700. / 1079. / 113501. / 1.13 / 100. / 424.
  2711.41 / 0.68 / 0.02 / 0.02 / 2712.08 / 6.21 / 0.62 / -0.008 *XS*
-----
AN-.5 AT 26005 / 11 / 6700. / 1228. / 154597. / 1.06 / 54. / 318.
  2711.62 / 0.49 / 0.03 / 0.0 / 2712.11 / 5.46 / 0.49 / -0.001 *XS*
-----
AN AT 26048 / 43 / 6700. / 1096. / 130584. / 1.06 / 58. / 314.
  2711.65 / 0.62 / 0.10 / 0.06 / 2712.27 / 6.11 / 0.57 / -0.000 *XS*
-----
AD AT 26760 / 712 / 6700. / 611. / 58139. / 1.00 / 71. / 214.
  2715.24 / 1.88 / 4.21 / 0.63 / 2717.11 / 10.96 / 0.79 / 0.006 *XS*
-----
AP AT 27865 / 1105 / 6700. / 1203. / 141869. / 1.14 / 364. / 557.
  2722.58 / 0.55 / 6.01 / 0.0 / 2723.13 / 5.57 / 0.34 / 0.002 *XS*
-----
AO-TW AT 28514 / 649 / 6700. / 569. / 60448. / 1.19 / 56. / 176.
  2724.97 / 2.58 / 3.40 / 1.01 / 2727.54 / 11.77 / 0.86 / -0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDGE AT 28514. / / 35803 / 282. / 16845. / 1.00 / 0. / 47.
  2722.40 / 2.51 / ...3.1 / (0.021) / 12.71 / 0.90 / *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 1092. / RIGHT 2159. / *RG*
-----
AR AT 28602 / 88 / 6700. / 850. / 95731. / 1.07 / 40. / 182.
  2727.19 / 1.04 / 0.68 / 0.0 / 2728.22 / 7.88 / 0.47 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** / 981. / 113066. / 1.09 / 5. / 197.
  2728.10 / 0.79 / / 2728.89 / 6.83 / 0.41 / *AS*
===== END BRIDGE ANALYSIS =====
AS-TW AT 28785 / 183 / 6700. / 855. / 99558. / 1.06 / 15. / 154.
  2728.71 / 1.02 / 0.73 / 0.11 / 2729.73 / 7.83 / 0.48 / -0.000 *XS*
=====
    
```

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

1	2	3	4	5	6	7	8
1	1 COVE CREEK LOWER 10,50,100,500				AM-AS	13	4 02 05 10
2	2 270797 270917 270968 271095						
3	4900 AM	1	18	3	2703	25875	99 99
4	4901	2280	3870	4640	6700		
5	4905	0	1	27170	36	1	27129 100 1 27097 126 1 27069
5	4906	150	1	27061	188	2	27041 193 2 27023 207 2 27019 211 2 27010
5	4907	218	2	27011	220	2	27016 225 3 27057 250 3 27067 300 3 27080
5	4908	350	3	27107	375	3	27134 396 3 27168
6	4915	2	4	055 045	1	2	055 050 1 2 045 035
3	4950 AM+	.5	0	18	3	2704	25988 99 99
5	4955	0	1	27175	36	1	27142 52 1 27134 100 1 27102 126 1 27074
5	4956	150	1	27066	188	2	27046 193 2 27028 207 2 27024 211 2 27015
5	4957	218	2	27016	220	2	27021 225 3 27062 250 3 27072 300 3 27085
5	4958	350	3	27112	375	3	27139 396 3 27173
6	4965	2	4	065 045	1	2	055 050 1 2 045 035
3	5000 BRIDGE	2	15	1	2703	25988	15 27083 1 0
5	5005	0	1	27084	0	1	27043 5 1 27042 5 1 27031 7 1 27027
5	5006	11	1	27025	18	1	27016 26 1 27020 33 1 27027 35 1 27032
5	5007	38	1	27045	40	1	27047 40 1 27085 20 1 27081 0 -9 27084
6	5015	1	2	055 055			
3	5050 ROAD	4	14	2	16	1	2 2 2
5	5055	0	1	27178	50	1	27140 100 1 27114 150 1 27101 200 1 27099
5	5056	220	2	27098	241	2	27096 250 2 27089 300 2 27062 312 2 27066
5	5057	362	2	27072	412	2	27097 447 2 27145 462 2 27182
3	5100 AM	5	22	4	2705	26048	1 3
5	5105	0	1	27179	22	1	27150 50 1 27125 86 1 27088 91 1 27065
5	5106	92	2	27063	100	2	27048 101 2 27037 105 2 27031 109 2 27029
5	5107	114	2	27028	121	2	27038 125 2 27054 132 3 27052 133 3 27063
5	5108	140	4	27080	150	4	27069 200 4 27066 250 4 27072 300 4 27097
5	5109	335	4	27145	350	4	27182
6	5115	1	2	055 045	1	2	055 045 1 2 045 030
3	5200 AM	0	17	2	2707	26760	99 99
5	5205	0	1	27205	127	1	27111 150 1 27103 165 2 27097 169 2 27062
3	5206	173	2	27058	181	2	27053 185 2 27053 189 2 27061 194 2 27093
5	5207	200	2	27112	209	2	27140 213 2 27147 214 2 27153 225 2 27170
5	5208	227	2	27185	247	2	27204
6	5215	1	2	045 035	1	2	055 050
3	5300 AF	0	22	4	2712	27865	99 99
5	5305	0	1	27271	40	1	27261 88 1 27259 100 1 27257 150 1 27249
5	5306	200	1	27242	250	1	27237 300 1 27238 350 2 27235 400 2 27202
5	5307	450	3	27152	451	3	27142 456 3 27138 457 3 27119 465 3 27122
5	5308	471	3	27118	483	3	27109 486 4 27128 550 4 27162 556 4 27211
5	5309	557	4	27236	590	4	27270
6	5315	1	2	035 035	1	2	050 040 1 2 055 045 1 2 055 050
3	5400 AG-T*	0	22	4	2716	28514	99 99

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BRIDG	WARNING	STATION	14	IS LESS THAN	STATION	13	
BRIDG	WARNING	STATION	15	IS LESS THAN	STATION	14	
BRIDG	WARNING	STATION	19	IS LESS THAN	STATION	18	
BRIDG	WARNING	STATION	20	IS LESS THAN	STATION	19	

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 4. DATE= 1/13/78

INPUT SUMMARY FOR: COVE CREEK LOWER 10,50,100,500 AM-AS

13 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 13 TYPE 3 CARDS

KEPT 13 CROSS SECTIONS FOR EDITING

13 " " VALID FOR PROPERTY COMPUTATIONS

13 " " " " PROFILE "

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 13. DATE= 1/13/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

AM-A5

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AN ; MIN QTC > QT (3)

ASSUMED WSU = HIN

AO ; KU/KD < 0.7 OR > 1.4

ALERTED USER

AP ; KU/KD < 0.7 OR > 1.4

ALERTED USER

AQ-TW; KU/KD < 0.7 OR > 1.4

ALERTED USER

AR ; KU/KD < 0.7 OR > 1.4

ALERTED USER

AR ; WSU > BELMX (1)

CHECKED QRO (2)

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 AM-AS
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / LG / V / FN / ACC *ID*
=====
AM AT 25875 / 0 / 2280. / 440. / 28271. / 1.59 / 116. / 299.
2707.97 / 0.66 / / 2708.63 / 5.18 / 0.55 / *IS*
-----
AM+.5 AT 25988 / 113. / 2280. / 495. / 32788. / 1.53 / 113. / 305.
2708.76 / 0.51 / 0.63 / 0.0 / 2709.27 / 4.61 / 0.48 / -0.002 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDGE AT 25988 / / 1176. / 214. / 10592. / 1.00 / 0. / 40.
2708.50 / 0.47 / ...3... (-.001) / 5.49 / 0.41 / *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 1250. / *RG*
-----
AN AT 26048 / 60 / 2280. / 514. / 41425. / 1.07 / 82. / 289.
2709.17 / 0.33 / 0.23 / 0.0 / 2709.49 / 4.43 / 0.52 / -0.003 *AS*
-----
M = **** / E = **** / K* = **** / 514. / 41425. / 1.07 / 82. / 289.
2709.17 / 0.33 / / 2709.49 / 4.43 / 0.52 / *AS*
===== END BRIDGE ANALYSIS =====
AO AT 26760 / 712 / 2280. / 306. / 23161. / 1.08 / 105. / 204.
2712.72 / 0.93 / 3.86 / 0.30 / 2713.66 / 7.45 / 0.65 / 0.002 *XS*
-----
AP AT 27865 / 1105 / 2280. / 551. / 47529. / 1.18 / 416. / 353.
2718.57 / 0.31 / 5.22 / 0.0 / 2719.88 / 4.14 / 0.37 / 0.005 *XS*
-----
AQ-TW AT 28514 / 649 / 2280. / 242. / 21334. / 1.15 / 81. / 141.
2721.25 / 1.60 / 3.33 / 0.64 / 2722.85 / 9.43 / 0.77 / 0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BRIDGE AT 28514 / / 2283. / 282. / 16845. / 1.00 / 0. / 47.
2722.40 / 1.02 / ...2... (0.021) / 8.11 / 0.57 / *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG*
-----
AR AT 28602 / 89 / 2280. / 381. / 30870. / 1.09 / 53. / 148.
2722.94 / 0.61 / 0.69 / 0.0 / 2723.54 / 5.98 / 0.46 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** / 457. / 40101. / 1.07 / 52. / 151.
2723.72 / 0.41 / / 2724.13 / 4.99 / 0.36 / *AS*
===== END BRIDGE ANALYSIS =====
AS-TW AT 28785 / 183 / 2280. / 401. / 35350. / 1.08 / 45. / 132.
2724.32 / 0.54 / 0.67 / 0.06 / 2724.87 / 5.68 / 0.43 / -0.000 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

AN-A5

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

AD	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AP	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AQ-TW	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AR	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50, 100.500 AM-AS
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

=====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
AM	AT	25875	0	3870.	680.	51546.	1.30	105.	322.
2709.17		0.66		2709.83	5.69	0.53		*IS*	

AM+.5	AT	25988	113	3870.	717.	55906.	1.27	103.	325.
2709.84		0.57	0.59	0.0	2710.41	5.40	0.49	-0.002	*XS*

===== BEGIN BRIDGE ANALYSIS =====

BRIDG	AT	25988		1227.	214.	10592.	1.00	0.	40.
2708.50		0.51	...	3... (-.001)	5.73	0.43		*BO*	

EMBANKMENT OVERFLOW (CFS)	LEFT	80.	RIGHT	2556.				*RG*
---------------------------	------	-----	-------	-------	--	--	--	------

AN	AT	26048	60	3870.	739.	71933.	1.05	73.	304.
2710.19		0.45	0.22	0.0	2710.63	5.23	0.56	-0.001	*AS*

M = ****	E = ****	K* = ****	739.	71933.	1.05	73.	304.
2710.19	0.45		2710.63	5.23	0.56		*AS*

===== END BRIDGE ANALYSIS =====

AO	AT	26760	712	3870.	428.	36311.	1.02	90.	208.
2713.85		1.30	4.08	0.42	2715.14	9.03	0.71	0.003	*XS*

AP	AT	27865	1105	3870.	805.	81851.	1.14	398.	555.
2720.30		0.41	5.57	0.0	2720.71	4.80	0.38	0.003	*XS*

AQ-TW	AT	28514	649	3870.	355.	34393.	1.13	70.	145.
2722.92		2.08	3.45	0.84	2725.00	10.91	0.84	0.000	*XS*

===== BEGIN BRIDGE ANALYSIS =====

BRIDG	AT	28514		3329.	282.	16845.	1.00	0.	47.
2722.40		2.17	...	3... (0.021)	11.82	0.84		*BO*	

EMBANKMENT OVERFLOW (CFS)	LEFT	137.	RIGHT	383.				*RG*
---------------------------	------	------	-------	------	--	--	--	------

AR	AT	28602	88	3870.	585.	57412.	1.05	50.	157.
2724.96		0.72	0.67	0.0	2725.67	6.62	0.44	-0.000	*AS*

M = ****	E = ****	K* = ****	676.	70807.	1.04	49.	161.
2725.78	0.53		2726.31	5.73	0.36		*AS*

===== END BRIDGE ANALYSIS =====

AS-TW	AT	28785	183	3870.	586.	60215.	1.03	42.	139.
2726.34		0.70	0.64	0.08	2727.04	6.60	0.44	-0.000	*XS*

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 AM-AS
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AN	: MAX QBO < QT (3)	:	CHECKED QRD
AO	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AP	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AQ-TW	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AR	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 AM-AS
 PAGE 1 OF 1, PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC #ID#
=====
AM AT 25875 / 0 / 4640. / 795. / 65061. / 1.22 / 100. / 331.
2709.68 / 0.64 / / 2710.32 / 5.84 / 0.51 / *IS#
-----
AM+.5 AT 25988 / 113 / 4640. / 815. / 67466. / 1.21 / 99. / 333.
2710.27 / 0.61 / 0.55 / 0.0 / 2710.88 / 5.69 / 0.49 / -0.002 *XS#
===== BEGIN BRIDGE ANALYSIS =====
BRIDGE AT 25988 / / 1251. / 214. / 10592. / 1.00 / 0. / 40.
2708.50 / 0.53 / ...3... (-.001) / 5.84 / 0.44 / *R0#
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 229. / RIGHT 3215. / *RG#
-----
AN AT 26048 / 60 / 4640. / 834. / 86468. / 1.05 / 69. / 307.
2710.59 / 0.51 / 0.22 / 0.0 / 2711.10 / 5.56 / 0.57 / -0.001 *AS#
-----
M = **** / E = **** / K* = **** / 834. / 86468. / 1.05 / 69. / 307.
2710.59 / 0.51 / / 2711.10 / 5.56 / 0.57 / *AS#
===== END BRIDGE ANALYSIS =====
AO AT 26760 / 712 / 4640. / 484. / 42444. / 1.01 / 84. / 211.
2714.30 / 1.45 / 4.18 / 0.47 / 2715.75 / 9.59 / 0.74 / 0.001 *XS#
-----
AP AT 27865 / 1105 / 4640. / 919. / 98143. / 1.15 / 388. / 556.
2721.00 / 0.45 / 5.71 / 0.0 / 2721.46 / 5.05 / 0.38 / 0.002 *XS#
-----
AQ-TW AT 28514 / 649 / 4640. / 413. / 40929. / 1.15 / 66. / 174.
2723.58 / 2.26 / 3.48 / 0.90 / 2725.86 / 11.24 / 0.85 / 0.001 *XS#
===== BEGIN BRIDGE ANALYSIS =====
BRIDGE AT 28514 / / 3465. / 282. / 16845. / 1.00 / 0. / 47.
2722.40 / 2.36 / ...3... (0.021) / 12.31 / 0.87 / *R0#
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 377. / RIGHT 867. / *RG#
-----
AR AT 28602 / 88 / 4640. / 669. / 69784. / 1.04 / 49. / 161.
2725.72 / 0.78 / 0.66 / 0.0 / 2726.50 / 6.93 / 0.44 / -0.000 *AS#
-----
M = **** / E = **** / K* = **** / 793. / 86010. / 1.06 / 47. / 174.
2726.68 / 0.58 / / 2727.26 / 5.93 / 0.36 / *AS#
===== END BRIDGE ANALYSIS =====
AS-TW AT 28785 / 183 / 4640. / 674. / 73639. / 1.03 / 364 / 143.
2727.21 / 0.76 / 0.62 / 0.09 / 2727.97 / 6.89 / 0.44 / 0.000 *XS#
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 AM-AS
PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AN	;	MAX QBO < QT (3)	;	CHECKED GRD
AN	;	MIN QTC > QT (3)	;	ASSUMED WSU = HIN
AO	;	KU/KD < 0.7 OR > 1.4	;	ALERTED USER
AP	;	KU/KD < 0.7 OR > 1.4	;	ALERTED USER
AQ-TW	;	KU/KD < 0.7 OR > 1.4	;	ALERTED USER
AR	;	KU/KD < 0.7 OR > 1.4	;	ALERTED USER
AR	;	MAX QBO < QT (3)	;	CHECKED GRD

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 AM-AS
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

=====

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	RFW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
AM	25875	0	6700.	1115.	105430.	1.12	41.	352.
	2710.95	0.63		2711.58	6.01	0.46		*IS*

AM+.5	25988	113	6700.	1103.	103738.	1.12	22.	352.
	2711.41	0.65	0.46	0.01	2712.05	6.08	0.47	-0.000 *XS*

===== BEGIN BRIDGE ANALYSIS =====

BRIDG	25988		1266.	214.	10592.	1.00	0.	40.
	2708.50	0.54	...3...	(-0.001)	5.91	0.44		*R0*

EMBANKMENT OVERFLOW (CFS) / LEFT 918. / RIGHT 5109. / *RG*

AN	26048	60	6700.	1091.	129645.	1.06	58.	314.
	2711.63	0.62	0.20	0.0	2712.25	6.14	0.57	0.002 *AS*

M = **** / E = **** / K* = **** / 1091. / 129645. / 1.06 / 58. / 314.
 2711.63 / 0.62 / / 2712.25 / 6.14 / 0.57 / *AS*

===== END BRIDGE ANALYSIS =====

A0	26760	712	6700.	612.	50273.	1.00	71.	214.
	2715.25	1.87	4.23	0.62	2717.12	10.95	0.73	0.007 *XS*

AP	27865	1105	6700.	1202.	141673.	1.14	364.	557.
	2722.57	0.55	6.01	0.0	2723.13	5.57	0.34	0.001 *XS*

A0-TW	28514	649	6700.	569.	60456.	1.19	56.	176.
	2724.96	2.58	3.40	1.01	2727.54	11.78	0.86	0.000 *XS*

===== BEGIN BRIDGE ANALYSIS =====

BRIDG	28514		3580.	282.	16845.	1.00	0.	47.
	2722.40	2.51	...3...	(0.021)	12.72	0.90		*R0*

EMBANKMENT OVERFLOW (CFS) / LEFT 1092. / RIGHT 2159. / *RG*

AR	28602	88	6700.	850.	95736.	1.07	46.	182.
	2727.19	1.04	0.68	0.0	2728.22	7.88	0.47	-0.000 *AS*

M = **** / E = **** / K* = **** / 981. / 113066. / 1.09 / 5. / 197.
 2728.10 / 0.79 / / 2728.89 / 6.83 / 0.41 / *AS*

===== END BRIDGE ANALYSIS =====

AS-TW	28785	183	6700.	855.	99558.	1.06	15.	154.
	2728.71	1.02	0.73	0.11	2729.73	7.83	0.48	-0.000 *XS*

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....	5.....	0.....	5.....	0.....	5.....	0.....	5.....	0.....
1	1	COVE CREEK LOWER 50,100,500 WITH BRIDGES	AI-AM	7	3	02	05	10
2	2	270459 270512 270634						
3	4400	AI-TW 1	20	3	2695	23915	99	99
4	4401	3870	4640	6700				
5	4405	0	1	27080	7	1	27033	10
5	4406	45	2	26993	57	2	26974	80
5	4407	93	3	26940	95	3	26934	100
5	4408	114	3	26965	120	3	27007	125
6	4415	1	2	035 035	1	2	060 045	1
3	4500	RR-OR	2	11	1	2695	23915	15
5	4505	0	1	27019	0	1	26955	2
5	4506	16	1	26934	23	1	26931	27
5	4507	0	9	27019				
6	4515	1	2	045 045				
3	4550	ROAD	4	0	2	16	1	2
5	4555	0	1	27020	16	1	27025	70
5	4556	120	2	27070	140	2	27093	160
3	4600	AJ-AP	5	19	6	2695	23963	3
5	4605	5	1	27128	0	1	27084	8
5	4606	60	2	26982	71	3	26965	73
5	4607	77	4	26934	84	4	26932	94
5	4608	112	6	26980	140	6	27041	160
6	4615	1	2	035 035	1	2	065 050	1
6	4616	1	2	045 035				
3	4700	AK	0	18	2	2698	24820	99
5	4705	0	1	27120	6	1	27112	9
5	4706	25	1	26974	30	1	26966	33
5	4707	52	2	27028	80	2	27019	150
5	4708	300	2	27078	350	2	27104	375
6	4715	1	2	065 060	1	2	045 035	
3	4800	AL	0	20	3	2701	25430	99
5	4805	0	1	27148	4	1	27122	25
5	4806	74	2	27041	78	2	27004	82
5	4807	99	2	27005	102	2	27015	112
5	4808	200	3	27043	250	3	27044	300
6	4815	1	2	075 055	1	2	055 050	1
3	4900	AM	0	18	3	2703	25875	99
5	4905	0	1	27170	36	1	27137	52
5	4906	150	1	27061	188	2	27041	193
5	4907	218	2	27011	220	2	27016	225
5	4908	350	3	27107	375	3	27134	396
6	4915	2	4	065 045	1	2	055 050	1

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 2 DATE= 1/12/78

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BR-0P	WARNING	STATION	11	IS LESS THAN	STATION	10	

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 3, DATE= 1/12/78

INPUT SUMMARY FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM

7 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 7 TYPE 3 CARDS

KEPT 7 CROSS SECTIONS FOR EDITING

7 " " VALID FOR PROPERTY COMPUTATIONS

7 " " " " PROFILE " "

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AK ; KU/KD < 0.7 OR > 1.4

ALERTED USER

AM ; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER (50:100,500 WITH BRIDGES) AI-AH
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EGO / V / FN / ACC *ID*
=====
AI-TW AT 23915 / 0 / 3870. / 743. / 87133. / 1.06 / 5. / 125.
2704.59 / 0.45 / / 2705.04 / 5.21 / 0.35/ *IS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23915 / / 2082. / 222. / 16123. / 1.00 / 0. / 28.
2701.90 / 1.36 / ...3... (-.001) / 9.36 / 0.58 / *BO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 1583. / RIGHT 220. / *RG*
-----
AJ-AP AT 23963 / 48 / 3870. / 802. / 108424. / 1.37 / 4. / 143.
2704.64 / 0.49 / 0.08 / 0.02 / 2705.14 / 4.83 / 0.35 / -0.000 *AS*
-----
M = **** / E = **** / K* = **** / 1061. / 157912. / 1.30 / 2. / 151.
2706.45 / 0.27 / / 2706.72 / 3.65 / 0.25 / *AS*
===== END BRIDGE ANALYSIS =====
AK AT 24820 / 857 / 3870. / 1011. / 89777. / 1.00 / 12. / 286.
2707.39 / 0.23 / 0.91 / 0.0 / 2707.62 / 3.83 / 0.39 / 0.000 *XS*
-----
AL AT 25430 / 610 / 3870. / 1195. / 116660. / 1.05 / 34. / 325.
2708.32 / 0.17 / 0.87 / 0.0 / 2708.50 / 3.24 / 0.31 / 0.001 *XS*
-----
AM AT 25875 / 445 / 3870. / 684. / 51957. / 1.30 / 105. / 322.
2709.19 / 0.65 / 1.10 / 0.24 / 2709.83 / 5.66 / 0.52 / -0.000 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AJ-AP; MAX QBO" < QT (3)

AK ; KU/KD < 0.7 OR > 1.4

AM ; KU/KD < 0.7 OR > 1.4

CHECKED QRO

ALERTED USER

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50,000,500 WITH BRIDGES AI-AM
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AI-TW AT 23915 / 0 / 4640. / 807. / 97547. / 1.04 / 4. / 127.
2705.12 / 0.53 / / 2705.65 / 5.75 / 0.37/ *IS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23915 / / 2158. / 222. / 16123. / 1.00 / 0. / 28.
2701.90 / 1.46 / ...3... (-.001) / 9.70 / 0.60 / *B0*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 2101. / RIGHT 356. / *RG*
=====
AJ-AP AT 23963 / 48 / 4640. / 877. / 122090. / 1.35 / 3. / 145.
2705.18 / 0.59 / 0.09 / 0.03 / 2705.77 / 5.29 / 0.38 / -0.001 *AS*
=====
M = **** / E = **** / K* = **** / 1157. / 177895. / 1.28 / 1. / 154.
2707.08 / 0.32 / / 2707.41 / 4.01 / 0.26 / *AS*
===== END BRIDGE ANALYSIS =====
AK AT 24820 / 857 / 4640. / 1208. / 115680. / 1.00 / 11. / 305.
2708.08 / 0.23 / 0.90 / 0.0 / 2709.31 / 3.84 / 0.37 / 0.012 *XS*
=====
AL AT 25430 / 610 / 4640. / 1368. / 144329. / 1.05 / 32. / 327.
2708.91 / 0.19 / 0.79 / 0.0 / 2709.10 / 3.39 / 0.31 / 0.000 *XS*
=====
AM AT 25875 / 445 / 4640. / 799. / 65638. / 1.21 / 100. / 331.
2709.70 / 0.64 / 1.01 / 0.22 / 2710.34 / 5.80 / 0.50 / 0.000 *XS*
=====
    
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 13, DATE= 1/12/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 WITH BRIDGES AI-AM
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AJ-API; MAX QBO < QT (3)

AM ; KU/KD < 0.7 OR > 1.4

CHECKED QRD

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50+100+500 WITH BRIDGES AI-AM.
 PAGE 1 OF 1, PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AI-TW AT 23915 / 0 / 6700. / 961. / 124346. / 1.02 / 2. / 132.
2706.34 / 0.77 / / 2707.11 / 6.97 / 0.43 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23915 / / 2355. / 222. / 16123. / 1.00 / 0. / 28.
2701.90 / 1.74 / ...3... (-.001) / 10.59 / 0.65 / *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 3549. / RIGHT 879. / *R6*
-----
AJ-AP AT 23963 / 48 / 6700. / 1058. / 157342. / 1.30 / 2. / 151.
2705.63 / 0.81 / 0.11 / 0.02 / 2707.24 / 6.33 / 0.43 / -0.000 *AS*
-----
M = **** / E = **** / K* = **** / 1397. / 231563. / 1.24 / -0. / 161.
2708.62 / 0.44 / / 2709.06 / 4.79 / 0.30 / *AS*
===== END BRIDGE ANALYSIS =====
AK AT 24820 / 857 / 6700. / 1704. / 193141. / 1.01 / 10. / 336.
2709.68 / 0.24 / 0.86 / 0.0 / 2709.92 / 3.93 / 0.33 / 0.000 *XS*
-----
AL AT 25430 / 610 / 6700. / 1796. / 221607. / 1.06 / 26. / 333.
2710.33 / 0.23 / 0.64 / 0.0 / 2710.56 / 3.73 / 0.30 / 0.000 *XS*
-----
AM AT 25875 / 445 / 6700. / 1124. / 106711. / 1.12 / 81. / 353.
2710.98 / 0.62 / 0.84 / 0.19 / 2711.60 / 5.96 / 0.46 / -0.000 *XS*
=====
    
```

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....	5.....	0.....	5.....	0.....	5.....	0.....	5.....	0.....
1	1	COVE CREEK LOWER ALL FLOODS WITH BRIDGES	AF-AM	12	04	07	05	10
2	2	269916 270032 270084 270212						
3	4000	AF-TW 1 20 3 2693	23349	99	99			
4	4001	2280 3870 4640 5700						
5	4005	0 1 27065 5 1 27023	10 1 27031	28 1 27033	40 2 27020			
5	4006	45 2 26999 50 2 26963	54 2 26943	56 2 26914	60 2 26911			
5	4007	65 2 26911 69 2 26917	75 2 26923	78 3 26966	115 3 26973			
5	4008	150 3 26975 200 3 26982	250 3 27011	300 3 27026	330 3 27063			
6	4015	1 2 040 030 1 2 055 050	1 2 045 035					
3	4100	RR-OP 2 12 1 2693	23349	30 27002	1 1			
5	4105	0 1 27005 0 1 26959	3 1 26952	4 1 26953	8 1 26910			
5	4106	15 1 26913 24 1 26917	27 1 26919	27 1 26928	28 1 26933			
5	4107	28 1 27001 0 -9 27005						
6	4115	1 2 055 055						
3	4150	ROAD 4 8 3 20	1 3	1 1 1	2			
5	4155	0 1 27036 17 1 27039	45 2 27030	74 3 27024	106 3 27006			
5	4156	150 3 26999 200 3 27015	250 3 27055					
3	4200	AG-AP 5 21 6 2693	23411	3 5				
5	4205	0 1 27069 6 1 27039	10 1 27044	29 1 27044	43 2 27025			
5	4206	50 2 26992 59 2 26960	81 3 26967	84 4 26959	87 4 26951			
5	4207	88 4 26927 95 4 26919	100 4 26916	104 4 26912	109 4 26918			
5	4208	110 4 26927 112 5 26983	113 6 26983	121 6 26997	193 6 27025			
5	4209	224 6 27062						
6	4215	1 2 040 020 1 2 060 050	1 2 055 045	1 2 055 045	1 2 055 045			
6	4216	1 2 045 040						
3	4300	AH 0 18 3 2694	23710	99 99				
5	4305	0 1 27077 9 1 27053	14 1 27030	19 1 27028	36 1 27021			
5	4306	44 1 27008 50 1 26986	76 2 26961	79 2 26930	83 2 26922			
5	4307	89 2 26921 95 2 26925	102 2 26929	104 2 26942	107 3 26967			
5	4308	115 3 26987 138 3 27005	196 3 27078					
6	4315	1 2 060 050 1 2 055 040	1 2 045 040					
3	4400	AI-TW 0 20 3 2695	23915	99 99				
5	4405	0 1 27080 7 1 27033	10 1 27015	15 1 27019	32 2 27021			
5	4406	45 2 26993 57 2 26974	80 3 26975	86 3 26967	92 3 26946			
5	4407	93 3 26940 95 3 26934	100 3 26931	107 3 26930	111 3 26939			
5	4408	114 3 26965 120 3 27007	125 3 27046	137 3 27076	147 3 27086			
6	4415	1 2 035 035 1 2 060 045	1 2 055 045					
3	4500	RR-OP 2 11 1 2695	23915	15 27019	1 0			
5	4505	0 1 27019 0 1 26955	2 1 26951	3 1 26943	4 1 26938			
5	4506	16 1 26934 23 1 26931	27 1 26935	28 1 26955	28 1 27019			
6	4507	0 -9 27019						
4	4515	1 2 045 045						
3	4550	ROAD 4 9 2 16	1 2	2 2	2			
5	4555	0 1 27020 16 1 27025	70 1 27043	84 2 27043	95 2 27043			
5	4556	120 2 27070 140 2 27093	160 2 27104	180 2 27112				

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
...	5	0	5	0	5	0	5	0
3	4600	AJ-AP	5	19	6	2695	23963	3 5
5	4605	-5	1	27128	0	1	27084	8 1 27010
5	4606	60	2	26982	71	3	26965	73 3 26956
5	4607	77	4	26934	84	4	26932	94 4 26933
5	4608	112	6	26980	140	6	27041	103 5 26937
6	4615	1	2	035 035	1	2	065 050	170 6 27115
6	4616	1	2	045 035	1	2	050 040	1 2 050 040
3	4700	AK	0	18	2	2698	24820	99 99
5	4705	0	1	27120	6	1	27112	9 1 27104
5	4706	25	1	26974	30	1	26966	18 1 26999
5	4707	52	2	27028	80	2	27019	23 1 26986
5	4708	300	2	27078	350	2	27104	33 1 26964
6	4715	1	2	065 060	1	2	045 035	37 1 26969
3	4800	AL	0	20	3	2701	25430	40 1 26977
5	4805	0	1	27148	4	1	27128	200 2 27058
5	4806	74	2	27041	78	2	27004	250 2 27064
5	4807	99	2	27005	102	2	27015	
5	4808	200	3	27043	250	3	27044	
6	4815	1	2	075 055	1	2	055 050	
3	4900	AM	0	18	3	2703	25875	
5	4905	0	1	27170	36	1	27137	
5	4906	150	1	27061	188	2	27041	
5	4907	218	2	27011	220	2	27016	
5	4908	350	3	27107	375	3	27134	
6	4915	2	4	065 045	1	2	055 050	

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BR-OP	WARNING	STATION	12	IS LESS THAN	STATION	11	
BR-OP	WARNING	STATION	11	IS LESS THAN	STATION	10	

INPUT SUMMARY FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM

12 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 12 TYPE 3 CARDS

KEPT 12 CROSS SECTIONS FOR EDITING

12 " " VALID FOR PROPERTY COMPUTATIONS

12 " " " " PROFILE "

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID; ERRDR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AG-AP; WSU > BELMX (1)

CHECKED Q80 (2)

AG-AP; YU/Z < 1.1 (1)

ASSUMED Q80 (1)

AK ; KU/KD < 0.7 OR > 1.4

ALERTED USER

AL ; KU/KD < 0.7 OR > 1.4

ALERTED USER

AM ; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECTION	AT	WS ELEV	HW	HF	HE	EG	V	FN	ACC	REW
AF-TW	AT 23349	2699.16	0	2280.	411.	28429.	1.23	46.	217.	
		2699.16	0.59		2699.75	5.55	0.51			*IS*
===== BEGIN BRIDGE ANALYSIS =====										
99-0P	AT 23349	2699.16	2.48	2099.	166.	12362.	1.00	0.	28.	
		2699.16	2.48	2099.	166.	12362.	1.00	0.	28.	*HO*
----- EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 217. / *RG* -----										
AG-AP	AT 23411	2699.31	1.21	2280.	282.	24748.	1.20	50.	119.	
		2699.31	1.21	2280.	282.	24748.	1.20	50.	119.	*AS*
		M = 0.22	F = 0.0	K* = 0.36	486.	38720.	1.25	47.	149.	
		2700.80	0.61		2701.41	5.61	0.43			*AS*
===== END BRIDGE ANALYSIS =====										
AH	AT 23710	2701.67	0.50	2280.	480.	53459.	1.41	39.	147.	
		2701.67	0.50	2280.	480.	53459.	1.41	39.	147.	*XS*
AJ-TW	AT 23915	2702.17	0.42	2280.	461.	44960.	1.10	9.	122.	
		2702.17	0.42	2280.	461.	44960.	1.10	9.	122.	*XS*
===== BEGIN BRIDGE ANALYSIS =====										
BR-0P	AT 23915	2701.90	1.30	2029.	222.	16123.	1.00	0.	28.	
		2701.90	1.30	2029.	222.	16123.	1.00	0.	28.	*HO*
----- EMBANKMENT OVERFLOW (CFS) / LEFT 240. / RIGHT 0. / *RG* -----										
AJ-AP	AT 23963	2702.25	0.45	2280.	493.	60416.	1.34	7.	131.	
		2702.25	0.45	2280.	493.	60416.	1.34	7.	131.	*AS*
		M = ****	F = ****	K* = ****	709.	92651.	1.39	5.	139.	
		2703.96	0.22		2704.19	3.21	0.24			*AS*
===== END BRIDGE ANALYSIS =====										
AK	AT 24820	2705.19	0.30	2280.	519.	38175.	1.01	13.	186.	
		2705.19	0.30	2280.	519.	38175.	1.01	13.	186.	*XS*
AL	AT 25430	2706.80	0.15	2280.	761.	57228.	1.07	40.	318.	
		2706.80	0.15	2280.	761.	57228.	1.07	40.	318.	*XS*
AM	AT 25875	2707.97	0.66	2280.	440.	28271.	1.59	116.	299.	
		2707.97	0.66	2280.	440.	28271.	1.59	116.	299.	*XS*

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AG-AP: WS NOT FOUND BETWEEN

: WS = 2700.07 & WS = 2706.90:

USED DEL = 0.25

AG-AP: WS NOT FOUND BETWEEN

: WS = 2700.07 & WS = 2706.90:

USED WSMIN = WSC

AG-AP: WS NOT FOUND

ASSUMED WS = WSC

AG-AP: HIN TOO LOW

USED HIN = WSD+0.01

AG-AP: KU/KD < 0.7 OR > 1.4

ALERTED USER

AG-AP: WSU > BELMX (1)

CHECKED QRO (2)

AG-AP: MAX QBO < QT (2)

CHECKED QRO

AK : KU/KD < 0.7 OR > 1.4

ALERTED USER

AM : KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
AF-TW AT 23349 / 0 / 3870. / 621. / 52615. / 1.04 / 44. / 237.
2700.32 / 0.63 / / 2700.95 / 6.23 / 0.64 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23349 / / 2026. / 194. / 11102. / 1.00 / 0. / 28.
2700.50 / 1.70 / ...2... (-.001) / 10.45 / 0.65 / *RO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 1769. / *RG*
-----
AG-AP AT 23411 / 62 / 3870. / 361. / 33810. / 1.22 / 48. / 137.
2700.33 / 2.18 / 0.52 / 1.05 / 2702.51 / 10.72 / 0.82 / -0.011 *AS*
-----
M = **** / E = **** / K* = **** / 682. / 70384. / 1.30 / 40. / 196.
2702.90 / 0.65 / / 2703.55 / 5.67 / 0.42 / *AS*
===== END BRIDGE ANALYSIS =====
AH AT 23710 / 299 / 3870. / 740. / 86798. / 1.51 / 13. / 163.
2703.65 / 0.64 / 0.73 / 0.0 / 2704.29 / 5.23 / 0.41 / 0.012 *XS*
-----
AI-TW AT 23915 / 205 / 3870. / 740. / 79858. / 1.06 / 6. / 125.
2704.23 / 0.51 / 0.44 / 0.0 / 2704.73 / 5.53 / 0.38 / -0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23915 / / 2197. / 222. / 16123. / 1.00 / 0. / 28.
2701.90 / 1.52 / ...3... (-.001) / 9.88 / 0.61 / *RO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 1496. / RIGHT 198. / *RG*
-----
AJ-AP AT 23963 / 48 / 3870. / 753. / 100027. / 1.38 / 4. / 141.
2704.29 / 0.56 / 0.09 / 0.03 / 2704.85 / 5.14 / 0.38 / -0.000 *AS*
-----
M = **** / E = **** / K* = **** / 1042. / 153968. / 1.31 / 2. / 150.
2706.32 / 0.28 / / 2706.60 / 3.72 / 0.25 / *AS*
===== END BRIDGE ANALYSIS =====
AK AT 24820 / 857 / 3870. / 990. / 87195. / 1.00 / 12. / 283.
2707.32 / 0.24 / 0.96 / 0.0 / 2707.55 / 3.91 / 0.40 / 0.002 *XS*
-----
AL AT 25430 / 610 / 3870. / 1186. / 115163. / 1.05 / 34. / 325.
2708.29 / 0.17 / 0.91 / 0.0 / 2708.47 / 3.26 / 0.31 / 0.000 *XS*
-----
AM AT 25875 / 445 / 3870. / 681. / 51607. / 1.30 / 105. / 322.
2709.17 / 0.66 / 1.12 / 0.24 / 2709.43 / 5.68 / 0.53 / 0.000 *XS*
=====
    
```

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID AG-AP
WSC 2700.30

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM
PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AG-AP: WS NOT FOUND BETWEEN

: WS = 2700.59 & WS = 2706.90:

USED DEL = 0.25

AG-AP: WS NOT FOUND BETWEEN

: WS = 2700.59 & WS = 2706.90:

USED WSMIN = WSC

AG-AP: WS NOT FOUND

ASSUMED WS = WSC

AG-AP: MAX QBD < QT (3)

CHECKED ORD

AJ-AP: MAX QBD < QT (3)

CHECKED ORD

AK : KU/KD < 0.7 OR > 1.4

ALERTED USER

AM : KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
AF-TW AT 23349 / 0 / 4640. / 724. / 65247. / 1.02 / 43. / 246.
 2700.84 / 0.65 / / 2701.49 / 6.41 / 0.63/ *IS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23349 / / 2232. / 194. / 11102. / 1.00 / 0. / 28.
 2700.50 / 2.06 / ...3... (-.001) / 11.51 / 0.72 / *RO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 18. / RIGHT 2300. / *RG*
-----
AG-AP AT 23411 / 62 / 4640. / 439. / 42300. / 1.27 / 46. / 157.
 2701.11 / 2.21 /***** /***** / 2703.32 / 10.56 / 0.80 /***** *AS*
-----
M = **** / F = **** / K* = **** / 743. / 78479. / 1.28 / 37. / 200.
 2703.28 / 0.77 / / 2704.05 / 6.25 / 0.45 / *AS*
===== END BRIDGE ANALYSIS =====
AH AT 23710 / 299 / 4640. / 815. / 98047. / 1.49 / 12. / 157.
 2704.14 / 0.75 / 0.84 / 0.0 / 2704.89 / 5.69 / 0.44 / 0.003 *XS*
-----
AI-TW AT 23915 / 205 / 4640. / 767. / 90993. / 1.05 / 5. / 126.
 2704.79 / 0.60 / 0.49 / 0.0 / 2705.39 / 6.05 / 0.40 / -0.001 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23915 / / 2261. / 222. / 16123. / 1.00 / 0. / 28.
 2701.90 / 1.61 / ...3... (-.001) / 10.17 / 0.62 / *RO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 2015. / RIGHT 332. / *RG*
-----
AJ-AP AT 23963 / 48 / 4640. / 832. / 113849. / 1.36 / 4. / 144.
 2704.86 / 0.66 / 0.10 / 0.03 / 2705.52 / 5.58 / 0.40 / -0.000 *AS*
-----
M = **** / E = **** / K* = **** / 1139. / 174118. / 1.29 / 2. / 153.
 2706.97 / 0.33 / / 2707.30 / 4.07 / 0.27 / *S*
===== END BRIDGE ANALYSIS =====
AK AT 24820 / 857 / 4640. / 1184. / 112328. / 1.00 / 11. / 304.
 2708.00 / 0.24 / 0.94 / 0.0 / 2708.24 / 3.92 / 0.38 / -0.000 *XS*
-----
AL AT 25430 / 610 / 4640. / 1356. / 142397. / 1.05 / 32. / 327.
 2708.87 / 0.19 / 0.82 / 0.0 / 2709.06 / 3.42 / 0.31 / 0.001 *XS*
-----
AM AT 25875 / 445 / 4640. / 795. / 65087. / 1.22 / 100. / 331.
 2709.68 / 0.64 / 1.03 / 0.23 / 2710.32 / 5.84 / 0.51 / 0.001 *XS*
=====
    
```

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM
PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECID AG-AP
WSC 2701.11

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

AG-AP: WS NOT FOUND BETWEEN

: WS = 2701.87 & WS = 2706.90:

USED DEL = 0.25

AG-AP: WS NOT FOUND BETWEEN

: WS = 2701.87 & WS = 2706.90:

USED WSMIN = WSC

AG-AP: WS NOT FOUND

ASSUMED WS = WSC

AG-AP: MAX QBO < QT (3)

CHECKED GRD

AJ-AP: MAX QBO < QT (3)

CHECKED GRD

AM : KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM
 PAGE 1 OF 1, PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
AF-TW AT 23349 /      0 / 6700. / 1008. / 100757. / 1.01 / 39. / 284.
 2702.12 / 0.69 /           / 2702.81 / 6.65 / 0.61 /      *IS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23349 / 2255. / 194. / 11102. / 1.00 / 0. / 28.
 2700.50 / 2.10 / ...3... (-.001) / 11.63 / 0.72 /      *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 296. / RIGHT 4067. /      *RG*
-----
AG-AP AT 23411 / 62 / 6700. / 688. / 71173. / 1.29 / 40. / 197.
 2702.94 / 1.91 /***** /***** / 2704.84 / 9.74 / 0.71 /***** *AS*
-----
M = **** / E = **** / K* = **** / 940. / 105880. / 1.24 / 5. / 209.
 2704.42 / 0.98 /           / 2705.40 / 7.13 / 0.49 /      *AS*
===== END BRIDGE ANALYSIS =====
AH AT 23710 / 299 / 6700. / 1022. / 130917. / 1.44 / 9. / 177.
 2705.42 / 0.96 / 0.97 / 0.0 / 2706.38 / 6.55 / 0.48 / 0.009 *XS*
-----
AI-TW AT 23915 / 205 / 6700. / 939. / 120375. / 1.02 / 3. / 131.
 2706.17 / 0.81 / 0.58 / 0.0 / 2706.98 / 7.13 / 0.44 / 0.014 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 23915 /      / 2387. / 222. / 16123. / 1.00 / 0. / 28.
 2701.90 / 1.79 / ...3... (-.001) / 10.73 / 0.66 /      *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 3460. / RIGHT 839. /      *RG*
-----
AJ-AP AT 23963 / 48 / 6700. / 1034. / 152387. / 1.31 / 2. / 150.
 2706.26 / 0.86 / 0.12 / 0.02 / 2707.12 / 6.48 / 0.44 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** / 1380. / 227428. / 1.25 / -0. / 160.
 2708.51 / 0.46 /           / 2708.96 / 4.86 / 0.30 /      *AS*
===== END BRIDGE ANALYSIS =====
AK AT 24820 / 857 / 6700. / 1681. / 189313. / 1.01 / 10. / 335.
 2709.61 / 0.25 / 0.89 / 0.0 / 2709.86 / 3.99 / 0.34 / 0.000 *XS*
-----
AL AT 25430 / 610 / 6700. / 1782. / 218872. / 1.06 / 26. / 333.
 2710.29 / 0.23 / 0.66 / 0.0 / 2710.52 / 3.76 / 0.30 / 0.000 *XS*
-----
AM AT 25875 / 445 / 6700. / 1116. / 105572. / 1.12 / 81. / 352.
 2710.95 / 0.63 / 0.86 / 0.20 / 2711.58 / 6.01 / 0.46 / 0.000 *XS*
=====
    
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 23, DATE= 1/ 8/78

COMPUTED WSC VALUES FOR: COVE CREEK LOWER ALL FLOODS WITH BRIDGES AF-AM
PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

SECID AG-AP
WSC 2702.94

*** INPUT CARD PRINTOUT ***

.....1.....2.....3.....4.....5.....6.....7.....8
5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0

1 1 COVE CREEK LOWER X-SECT. PROP. DUMMY-4 1 1 02 01 10
 3 25 DUM-4 9 34 3 2615 -210.99

EXPECTED #2
 CARD

ERROR(S)

5	25	0	1	26403	45	1	26339	65	1	26280	110	1	26225	165	1	26185
5	25	194	1	26179	211	1	26172	250	1	26173	300	1	26187	350	1	26183
5	27	400	1	26181	450	2	26183	466	2	26165	470	2	26107	478	2	26090
5	28	484	2	26094	494	2	26097	498	2	26106	504	2	26130	525	2	26144
5	29	546	3	26181	600	3	26180	650	3	26174	700	3	26168	750	3	26167
5	30	600	3	26167	850	3	26157	884	3	26159	894	3	26199	904	3	26229
5	31	712	3	26235	929	3	26225	933	3	26213	946	3	26405			
6	35	1	2	050 045	2	4	040 045	1	2	050 045						

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 2, DATE= 1/16/78

INPUT SUMMARY FOR: COVE CREEK LOWER X-SECT. PROP. DUMMY-4

1 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 1 TYPE 3 CARDS

KEPT 1 CROSS SECTIONS FOR EDITING

1 " " VALID FOR PROPERTY COMPUTATIONS

0 " " " " PROFILE "

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	COVE CREEK LOWER 500 UP&DOWN		AB-AF	7	2	02	05 10
2	2	269730 269730						
3	3500	AR	1	30	3	2686	20825	99 99
4	3501	1470	7470					
5	3505	0	1	27012	1	26992	14	1 26971 27 1 26955 41 1 26954
5	3506	48	1	26946	52	1 26926	100	1 26901 150 1 26898 200 2 26908
5	3507	204	2	26903	204	2 26879	207	2 26867 212 2 26857 223 2 26859
5	3508	235	2	26854	238	2 26851	240	2 26868 240 2 26881 247 2 26886
5	3509	251	2	26903	251	3 26927	300	3 26931 381 3 26946 400 3 26947
5	3510	446	3	26943	484	3 26969	491	3 26979 494 3 26994 503 3 27023
6	3515	1	2	045 035	1	2 055 050	1	2 045 035
3	3600	RR-RD	0	18	3	2687	20881	99 99
5	3605	-20	1	27010	0	1 26957	18	1 26956 59 1 26919 86 1 26917
5	3606	100	1	26922	155	1 26947	174	2 26947 174 2 26859 187 2 26857
5	3607	197	2	26852	197	3 26946	203	3 26946 300 3 26941 400 3 26952
5	3608	500	3	26964	600	3 26991	648	3 27009
6	3615	1	2	030 030	1	2 055 055	1	2 030 030
3	3640	RR+39	0	27	4	2687	20920	99 99
5	3645	0	1	27013	13	1 26992	13	1 26947 15 1 26951 20 1 26957
5	3646	37	1	26958	43	1 26950	48	1 26928 100 1 26915 150 1 26908
5	3647	153	2	26914	155	2 26907	158	2 26893 162 2 26888 164 2 26871
5	3648	167	2	26858	171	2 26854	175	2 26854 181 2 26850 185 2 26850
5	3649	190	2	26872	201	3 26932	204	4 26949 214 4 26963 234 4 26972
5	3650	250	4	26974	253	4 27013		
6	3655	1	2	040 035	1	2 035 050	1	2 035 050 1 2 035 035
3	3700	AC-AF	0	27	4	2687	20965	99 99
5	3705	0	1	27013	13	1 26992	13	1 26947 15 1 26951 20 1 26957
5	3706	37	1	26958	43	1 26950	48	1 26928 100 1 26915 150 1 26908
5	3707	153	2	26914	155	2 26907	158	2 26893 162 2 26888 164 2 26871
5	3708	167	2	26858	171	2 26854	175	2 26854 181 2 26850 185 2 26850
5	3709	190	2	26872	201	3 26932	204	4 26949 214 4 26963 234 4 26972
5	3710	250	4	26974	253	4 27013		
6	3715	1	2	040 035	1	2 035 050	1	2 035 050 1 2 035 035
3	3800	AD	0	17	3	2687	21615	99 99
5	3805	0	1	27018	7	1 26979	14	1 26948 27 1 26931 55 1 26912
5	3806	65	2	26953	67	2 26869	75	2 26855 86 2 26863 94 2 26867
5	3807	96	2	26869	101	2 26899	107	3 26930 144 3 26923 144 3 26940
5	3808	175	3	26995	196	3 27013		
6	3815	1	2	045 035	1	2 055 045	1	2 050 040
3	3900	AF	0	18	2	2688	22180	99 99
5	3905	0	1	27026	20	1 26992	50	1 26961 100 1 26940 150 1 26931
5	3906	200	1	26933	250	1 26925	263	2 26921 268 2 26888 271 2 26882
5	3907	275	2	26877	283	2 26878	291	2 26874 295 2 26882 297 2 26905
5	3908	303	2	26956	318	2 26971	333	2 27026
6	3915	1	2	040 035	1	2 060 050		

INPUT SUMMARY FOR: COVE CREEK LOWER 500 UP&DOWN AB-AF

7 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 7 TYPE 3 CARDS

KEPT 7 CROSS SECTIONS FOR EDITING

7 " " VALID FOR PROPERTY COMPUTATIONS

7 " " " " PROFILE " "

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 500 UP&DOWN AB-AF
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

BR-RD;	KU/KD < 0.7 OR > 1.4		ALERTED USER
AE	; KU/KD < 0.7 OR > 1.4		ALERTED USER
AF	; KU/KD < 0.7 OR > 1.4		ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 500 UP&DOWN AB-AF
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
AB	AT	20825	0	7470.	2344.	282645.	1.08	13.	487.
2697.30	0.17			2697.47	3.19	0.26		*IS*	
BR-RD	AT	20881	56	7470.	1665.	165188.	1.08	-6.	533.
2697.30	0.34	0.07	0.08	2697.64	4.49	0.49	0.016	*XS*	
BR-39	AT	20920	39	7470.	1153.	138156.	1.04	13.	236.
2697.23	0.68	0.10	0.17	2697.90	6.48	0.52	-0.000	*XS*	
AC-AP	AT	20965	45	7470.	1191.	144553.	1.05	13.	249.
2697.39	0.64	0.13	0.0	2698.03	6.27	0.50	0.000	*XS*	
AD	AT	21615	650	7470.	1147.	158542.	1.09	5.	172.
2698.93	0.72	1.58	0.04	2699.65	6.51	0.39	-0.000	*XS*	
AE	AT	22180	565	7470.	2001.	267940.	1.02	14.	326.
2700.18	0.22	0.74	0.0	2700.40	3.73	0.28	0.009	*XS*	
AF	AT	23325	1145	6700.	1003.	100032.	1.01	39.	283.
2702.10	0.70	2.15	0.24	2702.80	6.68	0.62	0.000	*XS*	

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 500 UP&DOWN AB-AF
 PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AF	:	SUPERCritical WS	:		COMPUTED WSA
AF	:	RIGHT BANK EXTENDED	:		ALERTED USER
AE	:	WS NOT FOUND BETWEEN	:		
			:	WS = 2696.03 & WS = 2597.60	USED DEL = 0.25
AE	:	WS NOT FOUND BETWEEN	:		
			:	WS = 2696.03 & WS = 2687.60	USED KE = 0.5
AE	:	WS NOT FOUND	:		ASSUMED WS = WSC
AD	:	WS NOT FOUND BETWEEN	:		
			:	WS = 2695.87 & WS = 2685.70	USED DEL = 0.25
AD	:	WS NOT FOUND BETWEEN	:		
			:	WS = 2695.87 & WS = 2685.70	USED KE = 0.5
AD	:	WS NOT FOUND	:		ASSUMED WS = WSC
AC-API	:	WS NOT FOUND BETWEEN	:		
			:	WS = 2694.69 & WS = 2685.20	USED DEL = 0.25
AC-API	:	WS NOT FOUND BETWEEN	:		
			:	WS = 2694.69 & WS = 2685.20	USED KE = 0.5
AC-API	:	WS NOT FOUND	:		ASSUMED WS = WSC
BR+39	:	WS NOT FOUND BETWEEN	:		
			:	WS = 2694.69 & WS = 2685.20	USED DEL = 0.25
BR+39	:	WS NOT FOUND BETWEEN	:		
			:	WS = 2694.69 & WS = 2685.20	USED KE = 0.5
BR+39	:	WS NOT FOUND	:		ASSUMED WS = WSC
HR-RD	:	WS NOT FOUND BETWEEN	:		
			:	WS = 2695.94 & WS = 2685.40	USED DEL = 0.25
BR-RD	:	WS NOT FOUND BETWEEN	:		
			:	WS = 2695.94 & WS = 2685.40	USED KE = 0.5
BR-RD	:	WS NOT FOUND	:		ASSUMED WS = WSC
AF	:	(K0/K1) < 0.7 OR > 1.4	:		ALERTED USER
AF	:	SUPERCritical WS	:		COMPUTED WSA

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 500 UP&DOWN AB-AF
 PAGE 1 OF 1, PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	AT	WS ELEV	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	PEW	ID
			HV	HF	HE	EG	V	FN	ACC	
AF	AT	23325	0	670	150	10516	1.13	49	115	
		2697.30	35.13		2732.43	44.74	5.58			*IS*
AE	AT	22180	-1145	7470	802	67571	1.03	52	307	
		2696.03	1.39	*****	2697.43	9.31	0.94	*****		*XS*
AD	AT	21615	-565	7470	672	73990	1.14	12	155	
		2695.87	2.20	*****	2698.06	11.12	0.97	*****		*XS*
AC-AP	AT	20965	-650	7470	670	64887	1.03	44	204	
		2694.69	1.99	*****	2696.68	11.15	0.97	*****		*XS*
BR-39	AT	20920	-45	7470	670	64887	1.03	44	204	
		2694.69	1.99	*****	2696.68	11.15	0.97	*****		*XS*
BR-RD	AT	20881	-39	7470	973	75811	1.11	-1	461	
		2695.94	1.02	*****	2696.96	7.68	0.98	*****		*XS*
AB	AT	20825	-56	7470	510	36009	1.10	61	251	
		2692.14	3.67	1.14	0.0	2695.81	14.66	1.65	0.002	*XS*

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....								
1	1	COVE CREEK LOWER 50,100,500 UP & DOWN	AF-AI	6	6	02	05	10
2	2	270032 -9999 270084 -9999 270210 -9999						
3	4000	AF 1 20 3 2693 23325 99 99						
4	4001	3870 3870 4640 4640 6700 6700						
5	4005	0 1 27065 5 1 27023 10 1 27031 28 1 27033 40 2 27020						
5	4006	45 2 26999 50 2 26963 54 2 26943 56 2 26914 60 2 26911						
5	4007	65 2 26911 69 2 26917 75 2 26923 78 3 26966 115 3 26973						
5	4008	150 3 26975 200 3 26982 250 3 27011 300 3 27026 330 3 27063						
6	4015	1 2 040 030 1 2 055 050 1 2 045 035						
3	4100	COMP 0 16 3 2693 23349 99 99						
5	4105	0 1 27036 17 1 27039 45 1 27030 45 1 27035 50 2 27034						
5	4106	50 2 26923 54 2 26910 61 2 26913 70 2 26917 70 3 27032						
5	4107	74 3 27031 74 3 27024 106 3 27005 150 3 26999 200 3 27015						
5	4108	250 3 27055						
6	4115	1 2 045 045 1 2 055 055 1 2 045 045						
3	4150	AG- 1 0 19 4 2693 23369 99 99						
5	4155	0 1 27068 6 1 27038 10 1 27043 29 1 27043 43 2 27024						
5	4156	50 2 26991 59 2 26959 81 3 26966 87 3 26950 88 3 26926						
5	4157	95 3 26918 100 3 26915 104 3 26911 109 3 26917 110 3 26926						
5	4158	113 4 26982 121 4 26996 193 4 27024 224 4 27061						
6	4165	1 2 040 020 1 2 060 050 1 2 055 045 1 2 045 040						
3	4200	AG 0 19 4 2693 23411 99 99						
5	4205	0 1 27069 6 1 27039 10 1 27044 29 1 27044 43 2 27025						
5	4206	50 2 26992 59 2 26960 81 3 26967 87 3 26951 88 3 26927						
5	4207	95 3 26919 100 3 26916 104 3 26912 109 3 26918 110 3 26927						
5	4208	113 4 26983 121 4 26997 193 4 27025 224 4 27062						
6	4215	1 2 040 020 1 2 060 050 1 2 055 045 1 2 045 040						
3	4300	AH 0 18 3 2694 23710 99 99						
5	4305	0 1 27077 9 1 27053 14 1 27030 19 1 27028 36 1 27021						
5	4306	44 1 27008 50 1 26986 76 2 26961 79 2 26930 83 2 26922						
5	4307	89 2 26921 95 2 26925 102 2 26929 104 2 26942 107 3 26967						
5	4308	115 3 26987 138 3 27005 196 3 27078						
6	4315	1 2 060 050 1 2 055 040 1 2 045 040						
3	4400	AI-TW 0 20 3 2695 23915 99 99						
5	4405	0 1 27080 7 1 27033 10 1 27015 15 1 27019 32 2 27021						
5	4406	45 2 26993 57 2 26974 80 3 26975 86 3 26967 92 3 26946						
5	4407	93 3 26940 95 3 26934 100 3 26931 107 3 26930 111 3 26938						
5	4408	114 3 26965 120 3 27007 125 3 27046 137 3 27076 147 3 27086						
6	4415	1 2 035 035 1 2 060 045 1 2 055 045						

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 2 DATE= 2/ 1/78

INPUT SUMMARY FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI

6 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 6 TYPE 3 CARDS

KEPT 6 CROSS SECTIONS FOR EDITING

6 " " VALID FOR PROPERTY COMPUTATIONS

6 " " " " PROFILE "

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 9,DATE= 2/ 1/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

COMP ; WS NOT FOUND BETWEEN

; WS = 2700.07 & WS = 2705.50;

USED DEL = 0.25

COMP ; WS NOT FOUND BETWEEN

; WS = 2700.07 & WS = 2705.50;

USED WSMIN = WSC

COMP ; WS NOT FOUND

ASSUMED WS = WSC

AG-.1; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER (50,100,500 (UP) & DOWN AF-AI
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

=====																
SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW							
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*								
=====																
AF	AT	23325	/	0	/	3870.	/	621.	/	52615.	/	1.04	/	44.	/	237.
		2700.32	/	0.63	/		/	2700.95	/	6.23	/	0.64	/		/	*IS*

COMP	AT	23349	/	24	/	3870.	/	484.	/	31684.	/	1.21	/	50.	/	215.
		2702.72	/	1.20	/	*****	/	*****	/	2703.92	/	7.99	/	0.54	/	***** *XS*

AG-.1	AT	23369	/	20	/	3870.	/	812.	/	88513.	/	1.26	/	34.	/	203.
		2703.58	/	0.45	/	0.11	/	0.0	/	2704.02	/	4.77	/	0.34	/	-0.001 *XS*

AG	AT	23411	/	42	/	3870.	/	809.	/	88110.	/	1.26	/	34.	/	203.
		2703.66	/	0.45	/	0.08	/	0.00	/	2704.11	/	4.78	/	0.34	/	0.004 *XS*

AH	AT	23710	/	299	/	3870.	/	819.	/	98531.	/	1.49	/	11.	/	167.
		2704.16	/	0.52	/	0.52	/	0.03	/	2704.68	/	4.73	/	0.36	/	0.018 *XS*

AI-TW	AT	23915	/	205	/	3870.	/	743.	/	87208.	/	1.06	/	5.	/	125.
		2704.59	/	0.44	/	0.36	/	0.0	/	2705.04	/	5.21	/	0.35	/	0.000 *XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-A1
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID COMP
WSC 2702.72

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-A1
 PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AI-TW; WS TOO LOW			ASSUMED WS = WSC
AH ; WS NOT FOUND BETWEEN	; WS = 2700.80 & WS = 2692.30;		USED DEL = 0.25
AH ; WS NOT FOUND BETWEEN	; WS = 2700.80 & WS = 2692.30;		USED KE = 0.5
AH ; WS NOT FOUND			ASSUMED WS = WSC
AG ; WS NOT FOUND BETWEEN	; WS = 2700.18 & WS = 2691.40;		USED DEL = 0.25
AG ; WS NOT FOUND BETWEEN	; WS = 2700.18 & WS = 2691.40;		USED KE = 0.5
AG ; WS NOT FOUND			ASSUMED WS = WSC
AG-.1; WS NOT FOUND BETWEEN	; WS = 2700.08 & WS = 2691.30;		USED DEL = 0.25
AG-.1; WS NOT FOUND BETWEEN	; WS = 2700.08 & WS = 2691.30;		USED KE = 0.5
AG-.1; WS NOT FOUND			ASSUMED WS = WSC
COMP ; WS NOT FOUND BETWEEN	; WS = 2702.72 & WS = 2691.20;		USED DEL = 0.25
COMP ; WS NOT FOUND BETWEEN	; WS = 2702.72 & WS = 2691.20;		USED KE = 0.5
COMP ; WS NOT FOUND			ASSUMED WS = WSC
AF ; KU/KD < 0.7 OR > 1.4			ALERTED USER
AF ; SUPERCRITICAL WS			COMPUTED WSA

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER (50,100,500 UP & DOWN) AF-AI
PAGE 1 OF 1, PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
AI-TW	AT	23915	0	3870.	356.	31846.	1.10	37.	120.
2701.03		2.03			2703.05	10.87	0.97		*IS*
AH	AT	23710	-205	3870.	391.	41930.	1.39	44.	140.
2700.80		2.12	*****	*****	2702.92	9.90	1.02	*****	*XS*
AG	AT	23411	-299	3870.	351.	32747.	1.19	48.	133.
2700.18		2.26	*****	*****	2702.44	11.04	1.05	*****	*XS*
AG-.1	AT	23369	-42	3870.	351.	32749.	1.19	48.	133.
2700.08		2.26	*****	*****	2702.34	11.03	1.05	*****	*XS*
COMP	AT	23349	-20	3870.	484.	31684.	1.21	50.	215.
2702.72		1.20	*****	*****	2703.92	7.99	0.89	*****	*XS*
AF	AT	23325	-24	3870.	264.	16531.	1.49	47.	201.
2698.25		4.98	0.69	0.0	2703.23	14.66	2.41	0.000	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 14, DATE= 2/ 1/78

COMPUTED WSC VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	AF	COMP	AG-.1	AG	AH	AI-TW
WSC	2699.61	2702.72	2700.08	2700.18	2700.80	2701.03

COMPUTED WSA VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	AF
WSA	2703.08

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

COMP : WS NOT FOUND BETWEEN ; WS = 2700.59 & WS = 2705.50 ; USED DEL = 0.25

COMP : WS NOT FOUND BETWEEN ; WS = 2700.59 & WS = 2705.50 ; USED WSMIN = WSC

COMP : WS NOT FOUND ; ASSUMED WS = WSC

AG-.1: KU/KD < .0.7 OR > 1.4 ; ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50, 100, 500 (UP) & DOWN AF-AI
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

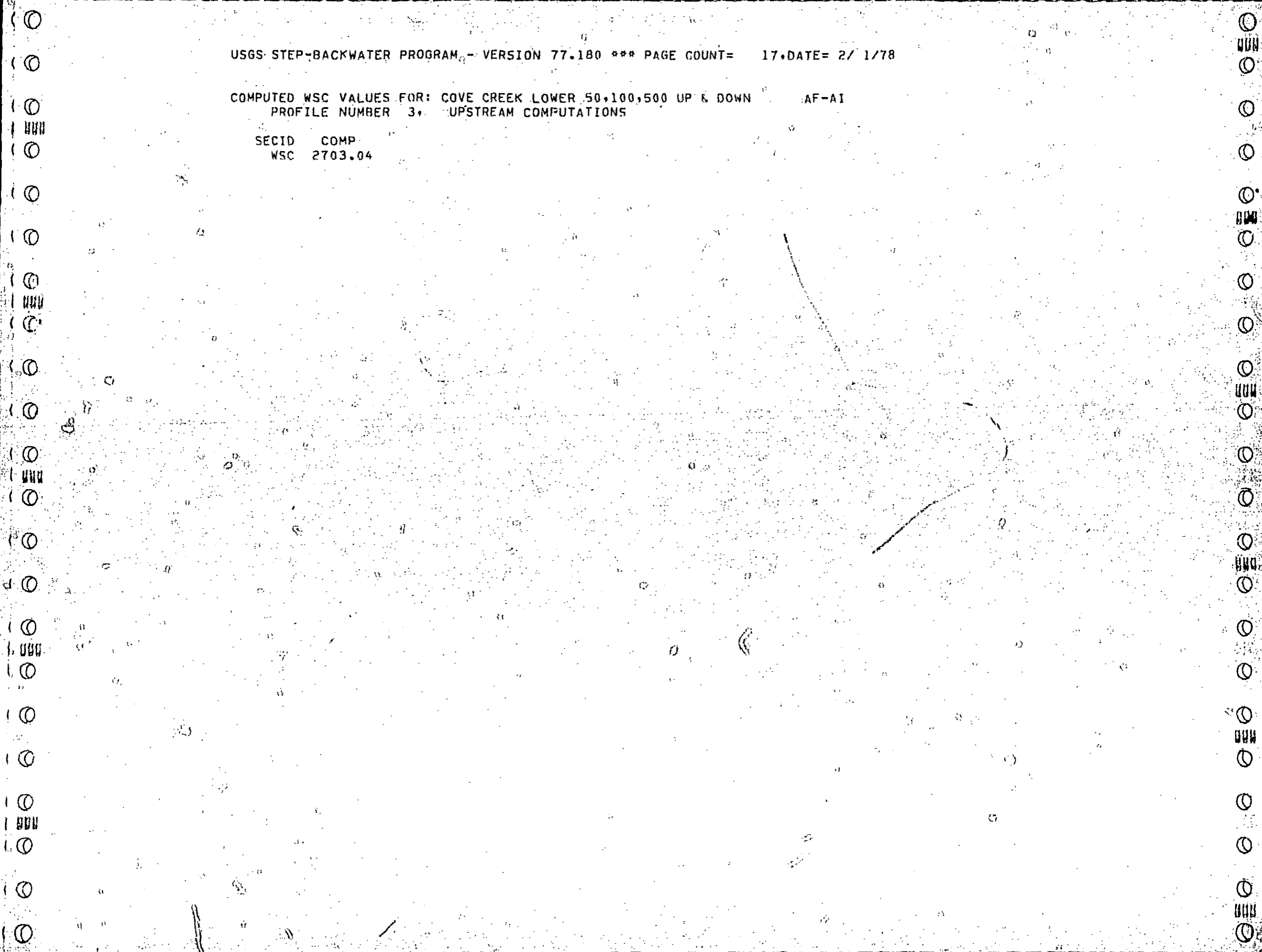
SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
AF	AT	23325	0	4640.	724.	65247.	1.02	43.	246.
2700.84	0.65			2701.49	6.41	0.63			*IS*
COMP	AT	23349	24	4640.	537.	36076.	1.15	44.	219.
2703.04	1.34	*****	*****	2704.38	8.64	0.56	*****		*XS*
AG-.1	AT	23369	20	4640.	877.	97800.	1.25	6.	206.
2703.96	0.54	0.12	0.0	2704.50	5.29	0.37	-0.001		*XS*
AG	AT	23411	42	4640.	877.	97806.	1.25	6.	206.
2704.06	0.54	0.09	0.00	2704.60	5.29	0.37	0.006		*XS*
AH	AT	23710	299	4640.	891.	109775.	1.47	10.	171.
2704.62	0.62	0.60	0.04	2705.24	5.21	0.39	-0.000		*XS*
AI-TW	AT	23915	205	4640.	808.	97612.	1.04	4.	127.
2705.12	0.53	0.41	0.0	2705.66	5.75	0.37	0.003		*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 17 DATE= 2/ 1/78

COMPUTED WSC VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI
PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECID COMP
WSC 2703.04



PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI
 PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AI-TW; WS TOO LOW		ASSUMED WS = WSC
AH ; WS NOT FOUND BETWEEN	; WS = 2701.50 & WS = 2692.30;	USED DEL = 0.25
AH ; WS NOT FOUND BETWEEN	; WS = 2701.50 & WS = 2692.30;	USED KE = 0.5
AH ; WS NOT FOUND		ASSUMED WS = WSC
AG ; WS NOT FOUND BETWEEN	; WS = 2701.03 & WS = 2691.40;	USED DEL = 0.25
AG ; WS NOT FOUND BETWEEN	; WS = 2701.03 & WS = 2691.40;	USED KE = 0.5
AG ; WS NOT FOUND		ASSUMED WS = WSC
AG-.1; WS NOT FOUND BETWEEN	; WS = 2700.93 & WS = 2691.30;	USED DEL = 0.25
AG-.1; WS NOT FOUND BETWEEN	; WS = 2700.93 & WS = 2691.30;	USED KE = 0.5
AG-.1; WS NOT FOUND		ASSUMED WS = WSC
COMP ; WS NOT FOUND BETWEEN	; WS = 2703.04 & WS = 2691.20;	USED DEL = 0.25
COMP ; WS NOT FOUND BETWEEN	; WS = 2703.04 & WS = 2691.20;	USED KE = 0.5
COMP ; WS NOT FOUND		ASSUMED WS = WSC
AF ; KU/KD < 0.7 OR > 1.4		ALERTED USER
AF ; SUPERCRITICAL WS		COMPUTED WSA

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI
 PAGE 1 OF 1, PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
AI-TW	AT	23915	0	4640.	405.	38099.	1.09	10.	21.
2701.60		2.23		2703.83		11.45		0.99	IS*
AH	AT	23710	-205	4640.	462.	51099.	1.41	40.	146.
2701.50		2.21	*****	2703.71		10.05		1.01	***** XS*
AG	AT	23411	-299	4640.	434.	41918.	1.25	46.	155.
2701.03		2.23	*****	2703.26		10.70		1.06	***** XS*
AG-.1	AT	23369	-42	4640.	434.	41921.	1.25	46.	155.
2700.93		2.23	*****	2703.16		10.70		1.06	***** XS*
COMP	AT	23349	-20	4640.	537.	36076.	1.15	44.	219.
2703.04		1.34	*****	2704.38		8.64		0.91	***** XS*
AF	AT	23325	-24	4640.	309.	19516.	1.45	47.	206.
2698.54		5.09	0.73	0.0	2703.63	15.00		2.29	0.013 XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AF	COMP	AG-.1	AG	AH	AI-TW
WSC	2699.82	2703.04	2700.93	2701.03	2701.50	2701.60

COMPUTED WSA VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AF
WSA	2703.45

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI
PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

COMP ; WS NOT FOUND BETWEEN

; WS = 2701.85 & WS = 2705.50;

USED DEL = 0.25

COMP ; WS NOT FOUND BETWEEN

; WS = 2701.85 & WS = 2705.50;

USED WSMIN = WSC

COMP ; WS NOT FOUND

ASSUMED WS = WSC

COMP ; LEFT BANK EXTENDED

ALERTED USER

AG-.1; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50,100 (500 UP) & DOWN AF-AI
 PAGE 1 OF 1, PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
AF	AT	23325	0	6700.	1003.	100104.	1.01	39.	283.
2702.10	0.70			2702.80	6.68	0.62		*IS*	
COMP	AT	23349	24	6700.	717.	51513.	1.11	0.	231.
2703.96	1.51	*****	*****	2705.46	9.34	0.90	*****	*XS*	
AG-.1	AT	23369	20	6700.	1044.	121056.	1.24	4.	213.
2704.81	0.80	0.14	0.0	2705.61	6.42	0.44	-0.001	*XS*	
AG	AT	23411	42	6700.	1054.	122501.	1.24	4.	214.
2704.96	0.78	0.13	0.0	2705.74	6.35	0.43	0.006	*XS*	
AH	AT	23710	299	6700.	1071.	139046.	1.43	7.	179.
2705.71	0.87	0.79	0.04	2706.58	6.25	0.46	0.005	*XS*	
AI-TW	AT	23915	205	6700.	961.	124335.	1.02	2.	132.
2706.34	0.77	0.53	0.0	2707.11	6.97	0.43	-0.001	*XS*	

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI
PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID COMP
WSC 2703.96

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 50,100-500' UP & DOWN AF-AI
 PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

AI-TW;	WS TOO LOW	:		ASSUMED WS = WSC
AH	; WS NOT FOUND BETWEEN	:	WS = 2703.36 & WS = 2692.30;	USED DEL = 0.25
AH	; WS NOT FOUND BETWEEN	:	WS = 2703.36 & WS = 2692.30;	USED KE = 0.5
AH	; WS NOT FOUND	:		ASSUMED WS = WSC
AG	; WS NOT FOUND BETWEEN	:	WS = 2702.88 & WS = 2691.40;	USED DEL = 0.25
AU	; WS NOT FOUND BETWEEN	:	WS = 2702.88 & WS = 2691.40;	USED KE = 0.5
AG	; WS NOT FOUND	:		ASSUMED WS = WSC
AG-.1;	WS NOT FOUND BETWEEN	:	WS = 2702.80 & WS = 2691.30;	USED DEL = 0.25
AG-.1;	WS NOT FOUND BETWEEN	:	WS = 2702.80 & WS = 2691.30;	USED KE = 0.5
AG-.1;	WS NOT FOUND	:		ASSUMED WS = WSC
COMP	; WS NOT FOUND BETWEEN	:	WS = 2703.96 & WS = 2691.20;	USED DEL = 0.25
COMP	; WS NOT FOUND BETWEEN	:	WS = 2703.96 & WS = 2691.20;	USED KE = 0.5
COMP	; WS NOT FOUND	:		ASSUMED WS = WSC
COMP	; LEFT BANK EXTENDED	:		ALERTED USER
AF	; KU/KD < 0.7 OR > 1.4	:		ALERTED USER
AF	; SUPERCRITICAL WS	:		COMPUTED WSA

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 50,100 (500) UP & DOWN AF-AI
 PAGE 1 OF 1, PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LFW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
AI-TW AT 23915 /   0 / 6700. / 574. / 60210. / 1.09 / 7. / 123.
 2703.16 / 2.32 /           / 2705.47 / 11.68 / 0.97/      *IS*
-----
AH AT 23710 / -205 / 6700. / 697. / 80592. / 1.53 / 13. / 161.
 2703.36 / 2.19 /***** /***** / 2705.55 / 9.62 / 0.96 /***** *XS*
-----
AS AT 23411 / -299 / 6700. / 683. / 70911. / 1.29 / 40. / 196.
 2702.88 / 1.94 /***** /***** / 2704.82 / 9.82 / 0.94 /***** *XS*
-----
AG-.1 AT 23369 / -42 / 6700. / 686. / 71348. / 1.29 / 40. / 196.
 2702.80 / 1.92 /***** /***** / 2704.72 / 9.77 / 0.94 /***** *XS*
-----
COMP AT 23349 / -20 / 6700. / 717. / 51513. / 1.11 / 0. / 231.
 2703.96 / 1.51 /***** /***** / 2705.46 / 9.34 / 0.98 /***** *XS*
-----
AF AT 23325 / -24 / 6700. / 397. / 27039. / 1.26 / 46. / 215.
 2699.08 / 5.60 / 0.77 / 0.0 / 2704.67 / 16.88 / 2.18 / 0.015 *XS*
=====
    
```

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	AF	COMP	AG-.1	AG	AH	AI-TW
WSC	2700.58	2703.96	2702.80	2702.88	2703.36	2703.16

COMPUTED WSA VALUES FOR: COVE CREEK LOWER 50,100,500 UP & DOWN AF-AI
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	AF
WSA	2704.44

HASP-II*A*RM89.PRI.....END JOB 2403.....8.13.28 AM 3 FEB 78.....BOX 0BU.....AG40BULM.....JACKSONRM89.PRI*A*HASP-II
HASP-II*A*RM89.PRI.....END JOB 2403.....8.13.28 AM 3 FEB 78.....BOX 0BU.....AG40BULM.....JACKSONRM89.PRI*A*HASP-II
HASP-II*A*RM89.PRI.....END JOB 2403.....8.13.28 AM 3 FEB 78.....BOX 0BU.....AG40BULM.....JACKSONRM89.PRI*A*HASP-II
HASP-II*A*RM89.PRI.....END JOB 2403.....8.13.28 AM 3 FEB 78.....BOX 0BU.....AG40BULM.....JACKSONRM89.PRI*A*HASP-II
HASP-II*A*RM89.PRI.....END JOB 2403.....8.13.28 AM 3 FEB 78.....BOX 0BU.....AG40BULM.....JACKSONRM89.PRI*A*HASP-II

*** INPUT CARD PRINTOUT ***

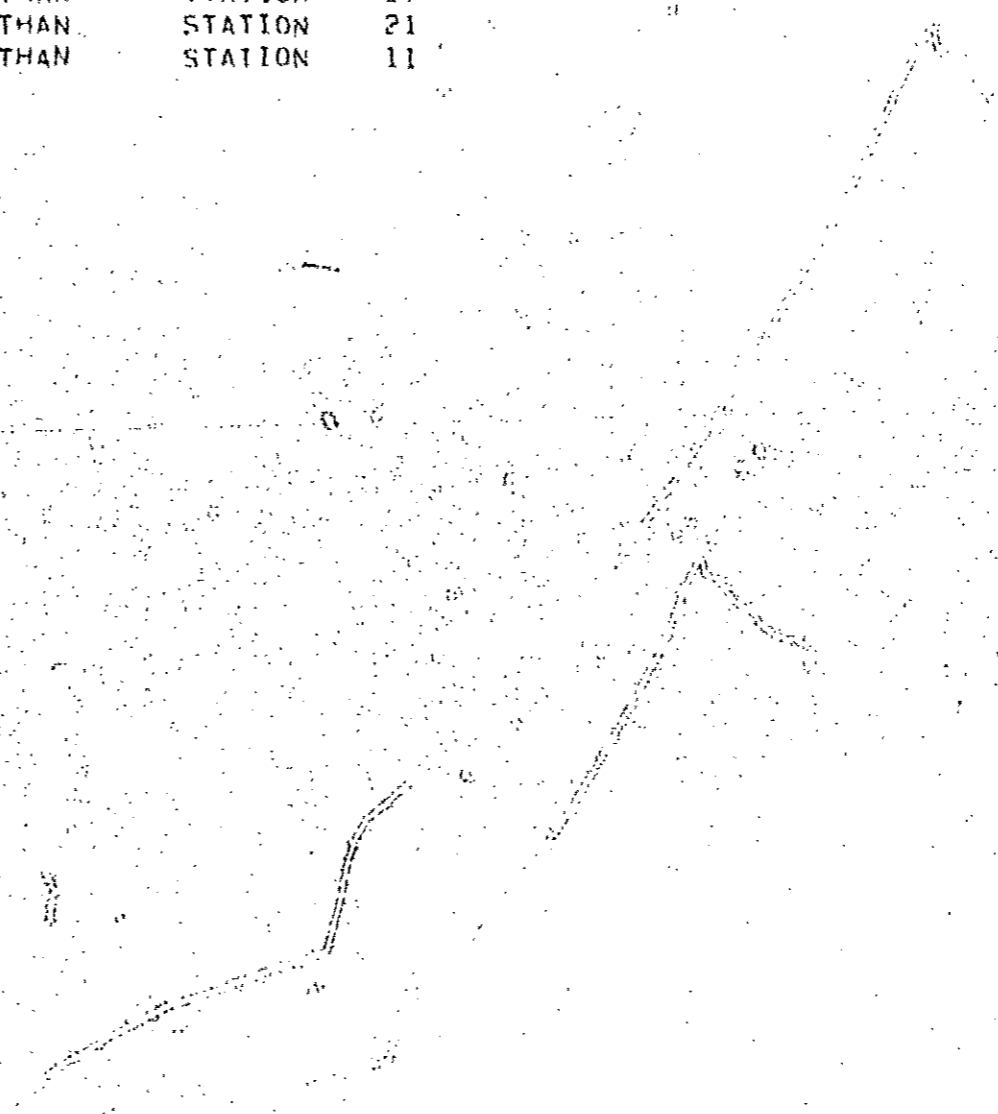
	1	2	3	4	5	6	7	8
.....	5	0	5	0	5	0	5	0
1	1	COVE CREEK LOWER PROFILES	150,100,500	T-AF	22	4	02	05 10
2	2	267119 267254 267304 267382						
3	2500	T-TW 1 19 3 2663 16324 99 99						
4	2501	2660 4480 5370 7700						
5	2505	0 1 26793 10 1 26767 22 1 26699 55 1 26679 73 2 26679						
5	2506	79 2 26669 86 2 26646 89 2 26627 92 2 26617 97 2 26617						
5	2507	103 2 26621 105 2 26626 108 2 26644 115 3 26689 139 3 26708						
5	2508	162 3 26747 177 3 26765 200 3 26783 220 3 26796						
6	2515	1 2 075 060 1 2 055 050 2 4 065 050						
3	2600	RO-TU 2 20 1 2663 16324 15 26783 1 1						
5	2605	0 1 26783 0 1 26771 6 1 26757 15 1 26705 18 1 26694						
5	2606	31 1 26682 46 1 26676 52 1 26641 53 1 26640 56 1 26620						
5	2607	65 1 26618 75 1 26626 78 1 26633 78 1 26634 83 1 26669						
5	2608	93 1 26695 104 1 26732 108 1 26760 108 1 26783 0 -9 26783						
6	2615	1 2 060 060						
3	2620	PR-TU 3 4 4						
5	2625	2 26624 2 26680 4 26680 4 26782						
3	2700	APP-U 5 24 5 2664 16467 1 5						
5	2705	0 1 26795 4 1 26794 23 1 26724 41 1 26686 42 2 26686						
5	2706	76 3 26680 82 3 26634 83 3 26633 87 3 26625 95 3 26626						
5	2707	100 3 26625 106 3 26634 107 3 26640 112 4 26683 126 4 26689						
5	2708	150 5 26694 200 5 26705 235 5 26710 235 5 26726 242 5 26748						
5	2709	250 5 26750 300 5 26780 356 5 26812 373 5 26820						
6	2715	1 2 080 080 1 2 080 080 1 2 060 060 1 2 055 045 1 2 055 045						
3	2800	V 0 18 3 2666 17170 99 99						
5	2805	0 1 26808 15 1 26710 34 2 26698 39 2 26679 41 2 26668						
5	2806	42 2 26666 44 2 26657 48 2 26649 52 2 26653 58 2 26666						
5	2807	58 2 26668 62 3 26709 86 3 26701 100 3 26717 150 3 26719						
5	2809	200 3 26732 250 3 26780 275 3 26811						
6	2815	1 2 080 065 1 2 055 055 1 2 050 040						
3	2900	W 1 24 3 2673 18375 99 99						
4	2901	2570 4340 5200 7470						
5	2905	0 1 26886 43 1 26817 126 1 26790 150 1 26780 187 1 26771						
5	2906	207 2 26768 223 2 26727 224 2 26725 226 2 26716 233 2 26715						
5	2907	245 2 26717 249 2 26726 250 2 26730 251 2 26753 267 3 26771						
5	2908	300 3 26771 350 3 26767 400 3 26776 450 3 26780 480 3 26841						
5	2909	525 3 26831 551 3 26836 600 3 26842 650 3 26892						
6	2915	1 2 045 040 1 2 065 050 1 2 045 040						
3	3000	X-TW 0 21 3 2675 19382 99 99						
5	3005	0 1 26890 16 1 26888 50 1 26877 55 1 26871 60 1 26846						
5	3006	73 1 26807 90 2 26813 94 2 26763 98 2 26751 100 2 26744						
5	3007	106 2 26743 116 2 26740 122 2 26751 123 2 26750 129 3 26799						
5	3008	150 3 26802 200 3 26907 250 3 26846 258 3 26864 279 3 26863						
5	3009	200 3 26896						
6	3015	1 2 060 060 1 2 055 045 1 2 045 040						

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8			
5	3508	235	2 26854	238	2 26851	240	2 26868	240	2 26881	247	2 26886
5	3509	251	2 26903	251	3 26927	300	3 26931	381	3 26945	400	3 26947
5	3510	446	3 26943	484	3 26969	491	3 26979	494	3 26994	503	3 27023
6	3515	1 2 045	035 1	2 055	050 1	2 045	035				
3	3600	RR-OP	2 12 1 2687	20881		15 26924	1 0				
5	3605	0	1 26924	0	1 26912	6	1 26913	11	1 26906	12	1 26897
5	3606	14	1 26874	19	1 26859	32	1 26857	42	1 26852	48	1 26864
5	3607	48	1 26924	0	-9 26924						
6	3608	1 2 055	055								
3	3620	PIER	3 4			5					
5	3625	1	26864	1	26912	2	26912	2	26924		
3	3650	ROAD	4 11 3 36	1	3	1 1 1		2			
5	3655	0	1 26957	18	1 26956	59	1 26919	100	1 26922	155	2 26947
5	3656	203	3 26946	300	3 26941	400	3 26952	500	3 26964	600	3 26991
5	3657	648	3 27009								
3	3700	AC-AP	5 27 4 2687	20965	1 4						
5	3705	0	1 27013	13	1 26992	13	1 26947	15	1 26951	20	1 26957
5	3706	37	1 26958	43	1 26950	48	1 26928	100	1 26915	150	1 26908
5	3707	153	2 26914	155	2 26907	158	2 26893	162	2 26888	164	2 26871
5	3708	167	2 26858	171	2 26854	175	2 26854	181	2 26850	185	2 26850
5	3709	190	2 26872	201	3 26932	204	4 26949	214	4 26963	234	4 26972
5	3710	250	4 26974	253	4 27013						
6	3715	1 2 040	035 1	2 035	050 1	2 035	050 1	2 035	035		
3	3800	AD	0 17 3 2687	21615	99 99						
5	3805	0	1 27018	7	1 26979	14	1 26948	27	1 26931	55	1 26912
5	3806	65	2 26903	67	2 26869	75	2 26855	86	2 26860	94	2 26867
5	3807	96	2 26869	101	2 26899	107	3 26930	144	3 26923	144	3 26940
5	3808	175	3 26995	196	3 27013						
6	3815	1 2 045	035 1	2 055	045 1	2 050	040				
3	3900	AF	0 18 2 2688	22180	99 99						
5	3905	0	1 27026	20	1 26992	50	1 26961	100	1 26940	150	1 26931
5	3906	200	1 26933	250	1 26925	263	2 26921	268	2 26888	271	2 26882
5	3907	275	2 26877	283	2 26878	291	2 26874	295	2 26882	297	2 26905
5	3908	303	2 26956	318	2 26971	333	2 27026				
6	3915	1 2 040	035 1	2 060	050						
3	4000	AF	1 20 3 2693	23325	99 99						
4	4001	2240	3870	4640	6700						
5	4005	0	1 27065	5	1 27023	10	1 27031	28	1 27033	40	2 27020
5	4006	45	2 26999	50	2 26963	54	2 26943	56	2 26914	60	2 26911
5	4007	65	2 26911	69	2 26917	75	2 26923	78	3 26966	115	3 26973
5	4008	150	3 26975	200	3 26982	250	3 27011	300	3 27026	330	3 27063
6	4015	1 2 040	030 1	2 055	050 1	2 045	035				

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
80-TU	WARNING	STATION	20	IS LESS THAN	STATION	19	
80-XY	WARNING	STATION	18	IS LESS THAN	STATION	17	
80-XY	WARNING	STATION	20	IS LESS THAN	STATION	19	
80-XY	WARNING	STATION	22	IS LESS THAN	STATION	21	
BP-OP	WARNING	STATION	12	IS LESS THAN	STATION	11	



USGS STEP-BACKWATER PROGRAM - VERSION 77.1B0 *** PAGE COUNT= 5 DATE=12/31/77

INPUT SUMMARY FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF

//
22 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 22 TYPE 3 CARDS

KEPT 22 CROSS SECTIONS FOR EDITING

22 " " VALID FOR PROPERTY COMPUTATIONS

22 " " " " PROFILE "

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

APP-U; KU/KD < 0.7 OR > 1.4

ALERTED USER

Z-DAM; WS TOO LOW

USED WSMIN = 450

Z-DAM; WS NOT FOUND BETWEEN

; WS = 2689.50 & WS = 2703.20;

USED DEL = 0.25

Z-DAM; WS NOT FOUND

ASSUMED WS = WSD

AA ; KU/KD < 0.7 OR > 1.4

ALERTED USER

AC-AP; KU/KD < 0.7 OR > 1.4

ALERTED USER

AF ; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF
 PAGE 1 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

=====

SECTION	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*

=====

T-TU	AT 16324	/	0	/	2660.	/	455.	/	36412.	/	1.37	/	20.	/	141.
	2671.19	/	0.73	/		/	2671.92	/	5.84	/	0.50	/		/	*IS*

===== BEGIN BRIDGE ANALYSIS =====

BO-TU	AT 16324	/		/	2660.	/	397.	/	27456.	/	1.00	/	14.	/	98.
	2671.19	/	0.70	/	...	/	(0.060)	/	6.70	/	0.53	/		/	*R0*

NO EMBANKMENT CROSS SECTION

=====

APP-U	AT 16467	/	143	/	2660.	/	757.	/	53551.	/	1.33	/	24.	/	235.
	2672.19	/	0.26	/	0.52	/	0.0	/	2672.45	/	3.52	/	0.29	/	0.009 *AS*

M = 0.20 / F = 0.11 / K* = 0.41 / 827. / 60075. / 1.24 / 23. / 235.
 2672.52 / 0.21 / / 2672.73 / 3.22 / 0.26 / *AS*

===== END BRIDGE ANALYSIS =====

V	AT 17170	/	703	/	2660.	/	634.	/	46649.	/	1.16	/	10.	/	211.
	2674.22	/	0.32	/	1.75	/	0.05	/	2674.54	/	4.19	/	0.43	/	0.002 *XS*

W	AT 18375	/	1205	/	2570.	/	644.	/	39442.	/	1.35	/	133.	/	453.
	2678.70	/	0.33	/	4.48	/	0.01	/	2679.03	/	3.99	/	0.43	/	0.007 *XS*

X-1W	AT 19382	/	1007	/	2570.	/	488.	/	42391.	/	1.36	/	67.	/	224.
	2682.56	/	0.59	/	3.98	/	0.13	/	2683.14	/	5.27	/	0.46	/	0.005 *XS*

===== BEGIN BRIDGE ANALYSIS =====

BO-Y	AT 19382	/		/	2570.	/	349.	/	23241.	/	1.00	/	0.	/	77.
	2682.56	/	0.89	/	...	/	(0.026)	/	7.56	/	0.63	/		/	*R0*

EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *R0*

=====

APP-Y	AT 19502	/	120	/	2570.	/	476.	/	44295.	/	1.06	/	50.	/	167.
	2683.88	/	0.48	/	0.42	/	0.0	/	2683.56	/	5.40	/	0.35	/	-0.000 *AS*

M = 0.30 / F = 0.00 / K* = 0.68 / 565. / 56930. / 1.08 / 46. / 170.
 2683.82 / 0.35 / / 2684.17 / 4.55 / 0.28 / *AS*

===== END BRIDGE ANALYSIS =====

BO-Y	AT 19605	/	103	/	2570.	/	554.	/	54917.	/	1.07	/	47.	/	170.
	2684.04	/	0.36	/	0.22	/	0.00	/	2684.39	/	4.64	/	0.44	/	-0.000 *XS*

Z-1AM	AT 19607	/	2	/	2570.	/	289.	/	22340.	/	1.00	/	137.	/	254.
	2689.59	/	1.23	/	*****	/	*****	/	2690.72	/	9.88	/	1.00	/	***** *XS*

AA	AT 20320	/	713	/	2570.	/	807.	/	81245.	/	1.25	/	143.	/	362.
	2693.13	/	0.20	/	2.59	/	0.0	/	2693.32	/	3.18	/	0.28	/	0.003 *XS*

BO-T	AT 20801	/	561	/	2570.	/	983.	/	79458.	/	1.08	/	50.	/	335.
	2693.75	/	0.14	/	0.57	/	0.0	/	2694.89	/	2.91	/	0.29	/	0.000 *XS*

===== BEGIN BRIDGE ANALYSIS =====

BO-OP	AT 20801	/		/	1517.	/	232.	/	11468.	/	1.00	/	0.	/	48.
	2692.40	/	0.66	/	...	/	(0.030)	/	6.53	/	0.51	/		/	*R0*

=====

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF
 PAGE 2 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 950. / RIGHT 89. / *RG*
-----
AC-AD AT 20965 / 84 / 2570. / 526. / 44700. / 1.07 / 46. / 202.
2693.78 / 0.40 / 0.16 / 0.13 / 2694.18 / 4.89 / 0.39 / -0.000 *AS*
-----
MSE **** / E = **** / K* = **** / 644. / 61046. / 1.03 / 44. / 203.
2693.53 / 0.26 / / 2694.79 / 3.99 / 0.29 / *AS*
===== END BRIDGE ANALYSIS =====
AD AT 21615 / 650 / 2570. / 628. / 67238. / 1.15 / 12. / 153.
2695.56 / 0.30 / 1.05 / 0.02 / 2695.86 / 4.10 / 0.30 / -0.000 *XS*
-----
AF AT 22180 / 565 / 2570. / 905. / 79704. / 1.01 / 47. / 311.
2696.43 / 0.13 / 0.70 / 0.0 / 2696.55 / 2.84 / 0.29 / 0.001 *XS*
-----
AF AT 23325 / 1145 / 2280. / 411. / 28476. / 1.23 / 46. / 217.
2699.16 / 0.59 / 2.97 / 0.23 / 2699.75 / 5.54 / 0.51 / 0.000 *XS*
=====
    
```

END OF THIS PROFILE

USGS STEP-RACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 23,DATE=12/31/77

COMPUTED WSC VALUES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID 7-DAM
WSC 2689.50

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

APP-U: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
Z-DAM: WS TOO LOW	:	USED WSMIN = WSC
Z-DAM: WS NOT FOUND BETWEEN	:	WS = 2690.57 & WS = 2703.20:
Z-DAM: WS NOT FOUND	:	USED DEL = 0.25
AA : KU/KD < 0.7 OR > 1.4	:	ASSUMED WS = WSC
AC-AP: HIN TOO LOW	:	ALERTED USER
AC-AP: KU/KD < 0.7 OR > 1.4	:	USED HIN = WSD+0.01
AC-AP: MAX QBD < QT (3)	:	ALERTED USER
AF : KU/KD < 0.7 OR > 1.4	:	CHECKED QRD
AF : KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AF : KU/KD < 0.7 OR > 1.4	:	ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF
 PAGE 2 OF 2; PROFILE NUMBER 2; UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / HEW
WS FLEV / HV / HF / HE / EG / V / FM / ACC *ID*
=====
T-TW AT 16324 / 0 / 4480. / 626. / 54889. / 1.56 / 17. / 149.
2672.54 / 1.08 / / 2673.62 / 7.15 / 0.58 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BO-TU AT 16324 / / 4480. / 511. / 39749. / 1.00 / 11. / 102.
2672.54 / 1.20 / ...1... (0.057) / 8.77 / 0.64 / *BO*
=====
    
```

NO EMBANKMENT CROSS SECTION

```

=====
APP-U AT 16467 / 143 / 4480. / 1120. / 94726. / 1.20 / 19. / 239.
2673.88 / 0.30 / 0.55 / 0.0 / 2674.18 / 4.00 / 0.29 / -0.000 *AS*
=====
M = 0.30 / E = 0.12 / K* = 0.61 / 1301. / 118583. / 1.18 / 17. / 242.
2674.69 / 0.22 / / 2674.91 / 3.44 / 0.23 / *AS*
===== END BRIDGE ANALYSIS =====
    
```

```

=====
V AT 17170 / 703 / 4480. / 997. / 90884. / 1.07 / 7. / 229.
2675.94 / 0.34 / 1.31 / 0.06 / 2676.28 / 4.50 / 0.40 / 0.001 *XS*
=====
AT 18375 / 1205 / 4340. / 955. / 69740. / 1.16 / 107. / 458.
2679.63 / 0.37 / 3.70 / 0.02 / 2680.00 / 4.54 / 0.43 / 0.008 *XS*
=====
    
```

```

=====
X-TW AT 19382 / 1007 / 4340. / 673. / 63609. / 1.30 / 63. / 230.
2683.67 / 0.84 / 4.28 / 0.23 / 2684.51 / 6.45 / 0.53 / 0.002 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-XY AT 19382 / / 4340. / 426. / 33250. / 1.00 / 0. / 77.
2683.67 / 1.52 / ...1... (0.028) / 10.19 / 0.76 / *BO*
=====
    
```

EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RB*

```

=====
APP-Y AT 19507 / 120 / 4340. / 616. / 64649. / 1.09 / 45. / 171.
2684.23 / 0.54 / 0.55 / 0.0 / 2685.07 / 7.95 / 0.42 / 0.006 *AS*
=====
M = 0.33 / E = 0.02 / K* = 0.76 / 827. / 99552. / 1.11 / 38. / 177.
2685.81 / 0.48 / / 2686.29 / 5.25 / 0.26 / *AS*
===== END BRIDGE ANALYSIS =====
    
```

```

=====
YPP-10 AT 19605 / 103 / 4340. / 813. / 95971. / 1.09 / 38. / 177.
2686.01 / 0.40 / 0.20 / 0.00 / 2686.50 / 5.34 / 0.45 / 0.000 *XS*
=====
Z-DAM AT 19607 / 2 / 4340. / 418. / 39917. / 1.00 / 133. / 256.
2690.57 / 1.68 / **** / **** / 2692.25 / 10.77 / 0.99 / **** *XS*
=====
    
```

```

=====
AA AT 20320 / 713 / 4340. / 1137. / 129463. / 1.24 / 123. / 365.
2694.57 / 0.28 / 2.60 / 0.0 / 2694.85 / 3.82 / 0.30 / 0.003 *XS*
=====
AB-TW AT 20881 / 561 / 4340. / 1416. / 161967. / 1.20 / 42. / 460.
2695.25 / 0.18 / 0.57 / 0.0 / 2695.42 / 3.07 / 0.29 / -0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
    
```

```

=====
BR-OP AT 20881 / / 1320. / 232. / 11468. / 1.00 / 0. / 48.
2692.40 / 0.50 / ...3... (0.030) / 5.69 / 0.45 / *BO*
=====
    
```

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF
 PAGE 2 OF 2. PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

=====

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*

=====

EMBANKMENT OVERFLOW (CFS) / LEFT 1996. / RIGHT 1041. / *RG*

AC-AP AT 20965 / 84 / 4340. / 762. / 78206. / 1.02 / 13. / 207.
 2695.26 / 0.52 / 0.14 / 0.22 / 2695.77 / 5.69 / 0.39 / -0.011 *AS*

M = **** / E = **** / K* = **** / 819. / 86210. / 1.03 / 13. / 209.
 2695.58 / 0.45 / / 2696.03 / 5.30 / 0.36 / *AS*

===== END BRIDGE ANALYSIS =====

AD AT 21615 / 650 / 4340. / 836. / 100830. / 1.11 / 9. / 161.
 2696.98 / 0.47 / 1.41 / 0.01 / 2697.45 / 5.19 / 0.35 / 0.001 *XS*

AE AT 22180 / 565 / 4340. / 1347. / 144678. / 1.00 / 31. / 321.
 2698.02 / 0.16 / 0.73 / 0.0 / 2698.18 / 3.22 / 0.29 / -0.000 *XS*

AF AT 23325 / 1145 / 3870. / 622. / 52659. / 1.04 / 44. / 237.
 2700.32 / 0.63 / 2.53 / 0.23 / 2700.95 / 6.23 / 0.64 / 0.002 *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 27. DATE=12/31/77

COMPUTED WSC VALUES FOR: COVE CREEK LOWER PROFILES 10.50, 100.500 T-AF
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECTID Z-DAM
WSC 2690.57

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF
PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

APP-U: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
APP-Y: WSU > BELMX (1)	:	CHECKED QRO (2)
Z-DAM: WS NOT FOUND BETWEEN	:	USED DEL = 0.25
	:	WS = 2687.21 & WS = 2703.20:
Z-DAM: WS NOT FOUND BETWEEN	:	USED WSMIN = WSC
	:	WS = 2687.21 & WS = 2703.20:
7-DAM: WS NOT FOUND	:	ASSUMED WS = WSC
AA : KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AC-AP: H1N TOO LOW	:	USED H1N = WSD+0.01
AC-AP: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AC-AP: MAX QRO < QT (3)	:	CHECKED QRO
AE : KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AF : KU/KD < 0.7 OR > 1.4	:	ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF
 PAGE 1 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
T-TW AT 16324 / 0 / 5370. / 693. / 62891. / 1.35 / 16. / 152.
2673.04 / 1.26 / / 2674.30 / 7.75 / 0.61 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BO-TU AT 16324 / / 5370. / 555. / 44853. / 1.00 / 11. / 104.
2673.04 / 1.45 / ...1... (0.056) / 9.67 / 0.69 / *BO*
```

NO EMBANKMENT CROSS SECTION

```
-----
APP-U AT 16467 / 143 / 5370. / 1267. / 113977. / 1.18 / 17. / 241.
2674.54 / 0.33 / 0.58 / 0.0 / 2674.87 / 4.24 / 0.29 / -0.005 *AS*
```

```
M = 0.32 / E = 0.13 / K* = 0.64 / 1505. / 143933. / 1.18 / 14. / 259.
2675.56 / 0.23 / / 2675.79 / 3.57 / 0.23 / *AS*
```

```
===== END BRIDGE ANALYSIS =====
V AT 17170 / 703 / 5370. / 1173. / 115787. / 1.06 / 6. / 237.
2676.72 / 0.35 / 1.22 / 0.06 / 2677.07 / 4.58 / 0.39 / 0.001 *XS*
```

```
-----
W AT 18375 / 1205 / 5200. / 1111. / 86715. / 1.13 / 93. / 460.
2680.06 / 0.38 / 7.35 / 0.02 / 2680.45 / 4.68 / 0.46 / 0.007 *XS*
```

```
-----
X-TW AT 19382 / 1007 / 5200. / 747. / 72778. / 1.28 / 62. / 243.
2684.09 / 0.97 / 4.31 / 0.29 / 2685.05 / 6.96 / 0.56 / 0.001 *XS*
```

```
===== BEGIN BRIDGE ANALYSIS =====
BO-XY AT 19382 / / 4952. / 552. / 34440. / 1.00 / 0. / 77.
2686.10 / 1.25 / ...2... (0.032) / 8.98 / 0.59 / *BO*
```

```
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 329. / *RG*
```

```
-----
APP-Y AT 19502 / 120 / 5200. / 672. / 73850. / 1.09 / 43. / 173.
2684.67 / 1.02 / 0.61 / 0.03 / 2685.69 / 7.74 / 0.45 / 0.001 *AS*
```

```
M = **** / E = **** / K* = **** / 1046. / 139599. / 1.12 / 31. / 164.
2687.31 / 0.43 / / 2687.74 / 4.97 / 0.25 / *AS*
```

```
===== END BRIDGE ANALYSIS =====
YPRIM AT 19605 / 103 / 5200. / 1022. / 132950. / 1.09 / 32. / 183.
2687.46 / 0.44 / 0.15 / 0.00 / 2687.90 / 5.09 / 0.40 / 0.001 *XS*
```

```
-----
Z-QAM AT 19607 / 2 / 5200. / 473. / 48448. / 1.00 / 132. / 257.
2691.01 / 1.88 /***** /***** / 2692.89 / 11.00 / 1.00 /***** *XS*
```

```
-----
AA AT 20320 / 713 / 5200. / 1286. / 153458. / 1.24 / 119. / 366.
2695.17 / 0.31 / 2.59 / 0.0 / 2695.49 / 4.04 / 0.31 / 0.001 *XS*
```

```
-----
AB-TW AT 20881 / 561 / 5200. / 1690. / 176726. / 1.14 / 24. / 469.
2695.88 / 0.17 / 0.56 / 0.0 / 2696.05 / 3.08 / 0.28 / 0.000 *XS*
```

```
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 20881 / / 1157. / 232. / 11468. / 1.00 / 0. / 48.
2692.40 / 0.39 / ...3... (0.030) / 5.03 / 0.40 / *BO*
```

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF
PAGE 2 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

=====

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*

=====

EMBANKMENT OVERFLOW (CFS) / LEFT 2376. / RIGHT 1624. / *RG*

AC-AP	AT 20965	/ 84	/ 5200.	/ 876.	/ 91206.	/ 1.05	/ 13.	/ 211.
	2695.89	/ 0.57	/ 0.14	/ 0.29	/ 2696.46	/ 5.94	/ 0.41	/ -0.011 *AS*

M = **** / E = **** / K_s = **** / 884. / 92464. / 1.05 / 13. / 211.
2695.93 / 0.56 / / 2696.49 / 5.88 / 0.40 / *AS*

===== END BRIDGE ANALYSIS =====

AD AT 21615 / 650 / 5200. / 928. / 116996. / 1.10 / 8. / 164.
2697.58 / 0.54 / 1.62 / 0.0 / 2698.12 / 5.60 / 0.36 / 0.001 *XS*

AE AT 22180 / 565 / 5200. / 1540. / 177735. / 1.01 / 25. / 322.
2698.68 / 0.18 / 0.73 / 0.0 / 2698.85 / 3.38 / 0.28 / 0.000 *XS*

AF AT 23325 / 1145 / 4640. / 723. / 65140. / 1.02 / 43. / 245.
2700.84 / 0.65 / 2.39 / 0.24 / 2701.49 / 6.42 / 0.64 / 0.003 *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.150 *** PAGE COUNT= 31,DATE=12/31/77

COMPUTED WSC VALUES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID Z-DAM
WSC 2691.01

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF
PROFILE NUMBER 4: UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

APP-U: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
X-TW: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
APP-Y: WSU > BE(MX (1))	:	CHECKED QRC (2)
Z-DAM: WS NOT FOUND BETWEEN	:	WS = 2688.56 & WS = 2703.20
	:	USED DEL = 0.25
Z-DAM: WS NOT FOUND BETWEEN	:	WS = 2688.56 & WS = 2703.20
	:	USED WSMIN = WSC
Z-DAM: WS NOT FOUND	:	ASSUMED WS = WSC
AA: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AC-AP: HIN TOO LOW	:	USED HIN = WSD+0.01
AC-AP: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AC-AP: QRD > QT	:	ASSUMED WSU = HIN
AE: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
AF: KU/KD < 0.7 OR > 1.4	:	ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-4F
 PAGE 1 OF 2, PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

=====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*	

=====

T-TW	AT	16324	/	0	/	7700.	/	801.	/	76697.	/	1.32	/	15.	/	157.		
2673.82	/	1.90	/		/	2675.72	/	9.61	/	0.73	/		/		/			*IS*

BEGIN BRIDGE ANALYSIS

80-TU	AT	16324	/		/	7700.	/	626.	/	53678.	/	1.00	/	9.	/	105.		
2673.82	/	2.35	/	...	/	1.00	/	(0.055)	/	12.29	/	0.83	/		/			*80*

NO EMBANKMENT CROSS SECTION

APP-U	AT	16467	/	143	/	7700.	/	1615.	/	158502.	/	1.18	/	13.	/	267.		
2676.00	/	0.42	/	0.70	/	0.0	/	2676.42	/	4.77	/	0.30	/	-0.000	/			*AS*

M	=	0.37	/	E	=	0.14	/	K*	=	0.75	/	2141.	/	233378.	/	1.19	/	8.	/	299.
2677.93	/	0.24	/		/		/	2678.17	/	3.60	/	0.25	/		/					*AS*

END BRIDGE ANALYSIS

V	AT	17170	/	703	/	7700.	/	1674.	/	196758.	/	1.05	/	3.	/	256.		
2678.79	/	0.35	/	0.91	/	0.05	/	2679.13	/	4.60	/	0.34	/	0.000	/			*XS*

W	AT	18375	/	1205	/	7470.	/	1569.	/	142631.	/	1.09	/	57.	/	466.		
2681.24	/	0.38	/	2.47	/	0.02	/	2681.62	/	4.76	/	0.43	/	0.002	/			*XS*

X-TW	AT	19382	/	1007	/	7470.	/	909.	/	94504.	/	1.25	/	59.	/	253.		
2684.95	/	1.31	/	4.17	/	0.46	/	2686.26	/	8.21	/	0.63	/	0.001	/			*XS*

BEGIN BRIDGE ANALYSIS

80-XY	AT	19382	/		/	5890.	/	552.	/	34440.	/	1.00	/	0.	/	77.		
2686.10	/	1.77	/	...	/	2.00	/	(0.032)	/	10.68	/	0.70	/		/			*80*

EMBANKMENT OVERFLOW (CFS)	/	LEFT	165.	/	RIGHT	1477.	/													*RG*
---------------------------	---	------	------	---	-------	-------	---	--	--	--	--	--	--	--	--	--	--	--	--	------

APP-Y	AT	19502	/	120	/	7470.	/	797.	/	94316.	/	1.11	/	39.	/	177.		
2685.60	/	1.51	/	0.75	/	0.10	/	2687.11	/	9.37	/	0.51	/	-0.000	/			*AS*

M	=	****	/	E	=	****	/	K*	=	****	/	1256.	/	179670.	/	1.15	/	3.	/	191.
2688.62	/	0.63	/		/		/	2689.25	/	5.95	/	0.42	/		/					*AS*

END BRIDGE ANALYSIS

YPRIM	AT	19605	/	103	/	7470.	/	1238.	/	172227.	/	1.10	/	4.	/	190.		
2688.81	/	0.63	/	0.19	/	0.0	/	2689.44	/	6.04	/	0.45	/	0.002	/			*XS*

Z-DAM	AT	19607	/	2	/	7470.	/	648.	/	71120.	/	1.00	/	48.	/	259.		
2692.30	/	2.07	/	*****	/	*****	/	2694.37	/	11.53	/	0.99	/	*****	/			*XS*

AA	AT	20320	/	713	/	7470.	/	1633.	/	215674.	/	1.21	/	113.	/	369.		
2696.55	/	0.90	/	2.59	/	0.0	/	2696.95	/	4.58	/	0.33	/	-0.016	/			*XS*

AB-TW	AT	20881	/	561	/	7470.	/	2347.	/	283065.	/	1.08	/	13.	/	487.		
2697.26	/	0.17	/	0.51	/	0.0	/	2697.47	/	3.18	/	0.26	/	0.012	/			*XS*

BEGIN BRIDGE ANALYSIS

B2-OP	AT	20881	/		/	2.	/	232.	/	11468.	/	1.00	/	0.	/	48.		
2692.40	/	0.0	/	...	/	3.00	/	(0.030)	/	0.0	/	0.0	/		/			*80*

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF
PAGE 2 OF 2. PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

=====

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*ID*

=====

EMBANKMENT OVERFLOW (CFS) / LEFT 4240. / RIGHT 4589. / *RG*

AC-AP AT	20965	84	7470.	1174.	141592.	1.04	13.	243.
2697.31	0.66	0.12	0.39	2697.97	6.36	0.51	-0.011	*AS*

M = **** / E = **** / K* = **** / 1174. / 141592. / 1.04 / 13. / 243.
2697.31 / 0.66 / / 2697.97 / 6.36 / 0.51 / *AS*

===== END BRIDGE ANALYSIS =====

AD AT 21615 / 650 / 7470. / 1142. / 157645. / 1.09 / 5. / 172.
2698.91 / 0.72 / 1.62 / 0.03 / 2699.63 / 6.54 / 0.39 / 0.000 *XS*

AF AT	22190	565	7470.	1992.	265277.	1.02	14.	326.
2700.16	0.22	0.75	0.0	2700.38	3.75	0.28	-0.004	*XS*

AF AT 23325 / 1145 / 6700. / 1001. / 99771. / 1.01 / 39. / 283.
2702.09 / 0.70 / 2.17 / 0.24 / 2702.79 / 6.70 / 0.62 / 0.000 *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 35,DATE=12/31/77

COMPUTED WSC VALUES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-AF
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECTID Z-DAM
WSC 2692.30

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	COVE CREEK LOWER	PROFILES	10.50.100.500	T-X	7	4	02 05 10
2	2	267128	267246	267288	267382			
3	2500	T-TW	1 19	3 2663	16324	99	99	
4	2501	2660	4480	5370	7700			
5	2505	0	1 26793	10	1 26767	22	1 26699	55 1 26679 73 2 26679
5	2506	79	2 26669	86	2 26646	89	2 26627	92 2 26617 97 2 26617
5	2507	103	2 26621	105	2 26626	108	2 26644	115 3 26689 139 3 26708
5	2508	162	3 26747	177	3 26765	200	3 26783	220 3 26796
6	2515	1	2 075 060	1	2 055 050	2	4 065 050	
3	2600	RO-TU	2 20	1 2663	16324	15	26783	1 1
5	2605	0	1 26783	0	1 26771	6	1 26757	15 1 26705 18 1 26694
5	2606	31	1 26682	46	1 26676	52	1 26641	53 1 26640 56 1 26620
5	2607	65	1 26618	75	1 26626	78	1 26633	78 1 26634 83 1 26669
5	2608	93	1 26695	104	1 26732	108	1 26760	108 1 26783 0 -9 26783
6	2615	1	2 060 060					
3	2620	PR-TU	3 4			4		
5	2625	2	26624	2	26680	4	26680	4 26782
3	2700	APP-U	5 24	5 2664	16467	1	5	
5	2705	0	1 26795	4	1 26794	23	1 26724	41 1 26686 42 2 26686
5	2706	76	3 26680	82	3 26634	83	3 26633	87 3 26625 95 3 26626
5	2707	100	3 26625	106	3 26634	107	3 26640	112 4 26683 126 4 26689
5	2708	150	5 26694	200	5 26705	235	5 26710	235 5 26726 242 5 26748
5	2709	250	5 26750	300	5 26780	356	5 26812	373 5 26820
6	2715	1	2 080 080	1	2 080 080	1	2 060 060	1 2 055 045 1 2 055 045
3	2800	V	0 18	3 2666	17170	99	99	
5	2805	0	1 26808	15	1 26710	34	2 26698	39 2 26679 41 2 26668
5	2806	42	2 26666	44	2 26657	48	2 26649	52 2 26653 58 2 26666
5	2807	68	2 26668	62	3 26709	46	3 26701	100 3 26717 150 3 26719
5	2809	200	3 26732	250	3 26780	275	3 26811	
6	2815	1	2 080 065	1	2 055 055	1	2 050 040	
3	2900	V	1 24	3 2673	18375	99	99	
4	2901	2570	4340	5200	7470			
5	2905	0	1 26886	43	1 26817	126	1 26790	150 1 26780 187 1 26771
5	2906	297	2 26768	223	2 26727	224	2 26725	226 2 26716 233 2 26715
5	2907	245	2 26717	249	2 26726	250	2 26730	251 2 26753 267 3 26771
5	2908	300	3 26771	350	3 26767	400	3 26776	450 3 26780 480 3 26841
5	2909	525	3 26831	551	3 26836	600	3 26842	650 3 26892
6	2915	1	2 045 040	1	2 065 050	1	2 045 040	
3	3000	X-TW	0 21	3 2675	19382	99	99	
5	3005	0	1 26890	16	1 26888	50	1 26877	55 1 26871 60 1 26846
5	3006	73	1 26807	90	2 26813	94	2 26763	98 2 26751 100 2 26744
5	3007	106	2 26743	116	2 26740	122	2 26751	123 2 26760 129 3 26798
5	3008	150	3 26802	200	3 26807	250	3 26846	268 3 26864 279 3 26863
5	3009	300	3 26896					
6	3015	1	2 060 060	1	2 055 045	1	2 045 040	

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
B0-TU	WARNING	STATION	20	IS LESS THAN	STATION	19	

INPUT SUMMARY FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X

7 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 7 TYPE 3 CARDS

KEPT 7 CROSS SECTIONS FOR EDITING

7 " " VALID FOR PROPERTY COMPUTATIONS

7 " " " " PROFILE "

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 10 DATE= 1/30/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

APP-U: KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES (10,50,100,500 T-X
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
T-TW AT 16324 / 0 / 2660. / 466. / 37511. / 1.37 / 20. / 142.
2671.28 / 0.69 / / 2671.97 / 5.71 / 0.49 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BO-TU AT 16324 / / 2660. / 404. / 28207. / 1.00 / 14. / 98.
2671.28 / 0.67 / ...1... (0.060) / 6.58 / 0.52 / *B0*
    
```

NO EMBANKMENT CROSS SECTION

```

-----
APP-U AT 16467 / 143 / 2660. / 763. / 54244. / 1.33 / 24. / 235.
2672.22 / 0.25 / 0.50 / 0.0 / 2672.47 / 3.49 / 0.29 / -0.001 *AS*
-----
M = 0.20 / E = 0.11 / K* = 0.41 / 831. / 61279. / 1.29 / 23. / 235.
2672.54 / 0.21 / / 2672.75 / 3.20 / 0.26 / *AS*
----- END BRIDGE ANALYSIS -----
V AT 17170 / 703 / 2660. / 635. / 46723. / 1.16 / 10. / 211.
2674.23 / 0.32 / 1.74 / 0.06 / 2674.54 / 4.19 / 0.43 / 0.003 *XS*
-----
W AT 18375 / 1205 / 2570. / 644. / 39422. / 1.35 / 133. / 453.
2678.70 / 0.33 / 4.47 / 0.01 / 2679.03 / 3.99 / 0.43 / 0.007 *XS*
-----
X-TW AT 19382 / 1007 / 2570. / 488. / 42399. / 1.36 / 67. / 224.
2682.56 / 0.59 / 3.98 / 0.13 / 2683.14 / 5.27 / 0.46 / 0.005 *XS*
    
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 12 DATE= 1/30/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS()

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

APP-U; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X
 PAGE 1 OF 1. PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
T-TW AT 16324 / 0 / 4480. / 616. / 53659. / 1.36 / 17. / 149.
2672.46 / 1.12 / / 2673.58 / 7.28 / 0.59 / *IS*
===== BEGIN BRIDGE ANALYSIS =====
BO-TU AT 16324 / / 4480. / 504. / 38962. / 1.00 / 12. / 102.
2672.46 / 1.23 / ...1... (0.058) / 8.89 / 0.65 / *BO*
    
```

NO EMBANKMENT CROSS SECTION

```

-----
APP-U AT 16467 / 143 / 4480. / 1114. / 93969. / 1.20 / 19. / 239.
2673.85 / 0.30 / 0.57 / 0.0 / 2674.15 / 4.02 / 0.24 / -0.000 *AS*
-----
M = 0.30 / E = 0.12 / K* = 0.61 / 1300. / 118462. / 1.18 / 17. / 242.
2674.69 / 0.22 / / 2674.90 / 3.45 / 0.23 / *AS*
----- END BRIDGE ANALYSIS -----
V AT 17170 / 703 / 4480. / 996. / 90767. / 1.07 / 7. / 229.
2675.94 / 0.34 / 1.31 / 0.06 / 2676.27 / 4.50 / 0.40 / -0.002 *XS*
-----
W AT 18375 / 1205 / 4340. / 956. / 69749. / 1.16 / 107. / 458.
2679.63 / 0.37 / 3.70 / 0.02 / 2680.00 / 4.54 / 0.43 / 0.007 *XS*
-----
X-TW AT 19382 / 1007 / 4340. / 673. / 63604. / 1.30 / 63. / 238.
2683.67 / 0.84 / 4.28 / 0.23 / 2684.51 / 6.45 / 0.53 / 0.002 *XS*
-----
    
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 14. DATE= 1/30/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

APP-U: KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
T-TW AT 16324 /    0 /  5370. /  672. /  60259. / 1.35 /  17. / 151.
 2672.88 /  1.35 /           / 2674.23 /  8.00 /  0.64/      *IS*
===== BEGIN BRIDGE ANALYSIS =====
BO-TU AT 16324 /    /  5370. /  541. /  43188. / 1.00 /  11. / 103.
 2672.88 /  1.53 / ...1... (0.057) /  9.93 /  0.71 /      *R0*
=====
    
```

NO. EMBANKMENT CROSS SECTION

```

-----
APP-U AT 16467 /  143 /  5370. / 1257. / 112714. / 1.18 /  17. / 241.
 2674.50 /  0.33 /  0.61 /  0.0 / 2674.83 /  4.27 /  0.29 / -0.000 *AS*
-----
M = 0.32 / E = 0.13 / K* = 0.64 / 1509. / 144466. / 1.18 /  14. / 260.
 2675.58 /  0.23 /           / 2675.81 /  3.56 /  0.23 /      *AS*
===== END BRIDGE ANALYSIS =====
V   AT 17170 /  703 /  5370. / 1175. / 116085. / 1.06 /   6. / 237.
 2676.73 /  0.34 /  1.21 /  0.06 / 2677.07 /  4.57 /  0.39 /  0.000 *XS*
-----
W   AT 18375 / 1205 /  5200. / 1111. /  86705. / 1.13 /  93. / 460.
 2680.06 /  0.38 /  3.34 /  0.02 / 2680.44 /  4.68 /  0.46 /  0.006 *XS*
-----
X-TW AT 19382 / 1007 /  5200. /  747. /  72784. / 1.28 /  62. / 243.
 2684.09 /  0.97 /  4.31 /  0.29 / 2685.05 /  6.96 /  0.56 /  0.001 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

APP-U; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

X-TW ; KU/KD < 0.7 OR > 1.4 ;

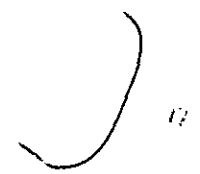
ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER PROFILES 10,50,100,500 T-X
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
T-TW AT 16324 / 0 / 7700. / 801. / 76697. / 1.32 / 15. / 157.
2673.82 / 1.90 / / 2675.72 / 9.61 / 0.73/ *IS*
===== BEGIN BRIDGE ANALYSIS =====
BO-TU AT 16324 / / 7700. / 626. / 53678. / 1.00 / 9. / 105.
2673.82 / 2.35 / ...1... (0.055) / 12.29 / 0.83 / *BO*
-----
NO EMBANKMENT CROSS SECTION
-----
APP-U AT 16467 / 143 / 7700. / 1615. / 158502. / 1.18 / 13. / 267.
2676.00 / 0.42 / 0.70 / 0.0 / 2676.42 / 4.77 / 0.30 / -0.000 *AS*
-----
M = 0.37 / E = 0.14 / K* = 0.75 / 2141. / 233378. / 1.19 / 8. / 299.
2677.93 / 0.24 / / 2678.17 / 3.60 / 0.25 / *AS*
===== END BRIDGE ANALYSIS =====
V AT 17170 / 703 / 7700. / 1674. / 196758. / 1.05 / 3. / 256.
2678.79 / 0.35 / 0.91 / 0.05 / 2679.13 / 4.60 / 0.34 / 0.000 *XS*
-----
W AT 18375 / 1205 / 7470. / 1569. / 142631. / 1.09 / 57. / 466.
2681.24 / 0.38 / 2.47 / 0.02 / 2681.62 / 4.76 / 0.43 / 0.002 *XS*
-----
X-TW AT 19382 / 1007 / 7470. / 909. / 94504. / 1.25 / 59. / 253.
2684.95 / 1.31 / 4.17 / 0.46 / 2686.26 / 8.21 / 0.63 / 0.001 *XS*
=====
    
```

END OF THIS PROFILE



PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 10,50,100,500 UP N-T

SECID	ERROR SEVERITY	FIRST VARIABLE NO.	ERROR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
BR-OR	WARNING	STATION 16	IS LESS THAN	STATION 15	

INPUT SUMMARY FOR: COVE CREEK LOWER 10,50,100,500 UP N-T

9 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 9 TYPE 3 CARDS

KEPT 9 CROSS SECTIONS FOR EDITING

9 " " VALID FOR PROPERTY COMPUTATIONS

9 " " " " PROFILE "

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 UP N-T
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

R	:	KU/KD < 0.7 OR > 1.4	
S	:	KU/KD < 0.7 OR > 1.4	ALERTED USER
			ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER (0,50,100,500) UP N-T
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW:
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
N AT 13320 / 0 / 3170. / 1166. / 63329. / 1.66 / 27. / 700.
2661.33 / 0.19 / / 2661.52 / 2.72 / 0.31 / *IS*
-----
O AT 14370 / 1050 / 3170. / 719. / 52484. / 1.31 / 49. / 284.
2664.41 / 0.40 / 3.17 / 0.10 / 2664.80 / 4.41 / 0.40 / 0.007 *XS*
-----
O-TW AT 14762 / 392 / 2660. / 860. / 64351. / 1.28 / 19. / 314.
2665.60 / 0.19 / 0.99 / 0.0 / 2665.79 / 3.09 / 0.27 / 0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BR-QR AT 14762 / / 2659. / 465. / 55158. / 1.00 / 0. / 82.
2665.60 / 0.51 / ...1... (0.052) / 5.72 / 0.39 / *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 8. / *RG*
-----
R AT 14815 / 53 / 2660. / 345. / 43355. / 1.54 / 269. / 803.
2665.71 / 0.24 / 0.13 / 0.02 / 2665.95 / 3.15 / 0.40 / -0.003 *AS*
-----
M = 0.74 / E = 0.39 / K* = 1.25 / 1325. / 80865. / 1.31 / 264. / 917.
2666.50 / 0.08 / / 2666.58 / 2.01 / 0.25 / *AS*
===== END BRIDGE ANALYSIS =====
S AT 15615 / 800 / 2660. / 690. / 40130. / 1.38 / 16. / 339.
2668.13 / 0.32 / 1.74 / 0.12 / 2668.45 / 3.86 / 0.38 / 0.005 *XS*
-----
T-TW AT 16324 / 709 / 2660. / 466. / 37517. / 1.37 / 20. / 142.
2671.28 / 0.69 / 3.33 / 0.19 / 2671.97 / 5.71 / 0.49 / 0.003 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 UP N-T
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

0 ; KU/KD < 0.7 OR > 1.4

ALERTED USER

S ; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 UP N-T
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
N AT 13320 / 0 / 5320. / 1754. / 112553. / 1.28 / 25. / 702.
  2662.20 / 0.18 / / 2662.38 / 3.03 / 0.31 / *IS*
-----
O AT 14370 / 1050 / 5320. / 948. / 78347. / 1.19 / 46. / 287.
  2665.37 / 0.58 / 3.37 / 0.20 / 2665.96 / 5.61 / 0.46 / 0.004 *XS*
-----
O-TW AT 14762 / 392 / 4480. / 1322. / 107667. / 1.21 / 17. / 559.
  2666.86 / 0.22 / 1.12 / 0.0 / 2667.07 / 3.39 / 0.27 / -0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
RR-OR AT 14762 / / 3907. / 554. / 72423. / 1.00 / 0. / 62.
  2666.86 / 0.77 / ...1... (0.049) / 7.05 / 0.45 / *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 512. / *RG*
-----
R AT 14815 / 53 / 4480. / 1679. / 114100. / 1.20 / 261. / 957.
  2667.03 / 0.13 / 0.09 / 0.0 / 2667.16 / 2.67 / 0.31 / -0.001 *AS*
-----
M = 0.84 / E = 0.53 / K* = 1.37 / 2506. / 210355. / 1.08 / 255. / 1006.
  2668.16 / 0.05 / / 2668.22 / 1.79 / 0.18 / *AS*
===== END BRIDGE ANALYSIS =====
S AT 15615 / 800 / 4480. / 1014. / 70854. / 1.14 / 14. / 361.
  2669.10 / 0.35 / 1.08 / 0.15 / 2669.44 / 4.42 / 0.47 / 0.002 *XS*
-----
T-TW AT 16324 / 709 / 4480. / 615. / 53589. / 1.36 / 17. / 149.
  2672.46 / 1.13 / 3.75 / 0.39 / 2673.58 / 7.28 / 0.59 / 0.002 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 UP N-T
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

0	; KU/KD < 0.7 OR > 1.4		ALERTED USER
Q-TW	; KU/KD < 0.7 OR > 1.4		ALERTED USER
R	; WSU > BELMX (1)		CHECKED QBO (2)
R	; YU/Z < 1.1 (1)		ASSUMED QBO (1)
S	; KU/KD < 0.7 OR > 1.4		ALERTED USER
T-TW	; KU/KD < 0.7 OR > 1.4		ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50, 100, 500 UP N-T
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC  *ID*
=====
N   AT 13320 /   0 / 6390. / 1991. / 137869. / 1.19 / 24. / 703.
    2662.55 / 0.19 /           / 2662.74 / 3.21 / 0.32 /      *IS*
-----
O   AT 14370 / 1050 / 6390. / 1042. / 90060. / 1.16 / 44. / 288.
    2665.76 / 0.68 / 3.45 / 0.24 / 2666.44 / 6.13 / 0.51 / 0.002 *XS*
-----
Q-TW AT 14762 / 392 / 5370. / 1559. / 130037. / 1.21 / 16. / 577.
    2667.37 / 0.22 / 1.16 / 0.0 / 2667.60 / 3.44 / 0.27 / 0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BR-OR AT 14762 /           / 4399. / 591. / 79956. / 1.00 / 0. / 82.
    2667.37 / 0.86 /           / ..1... (0.048) / 7.45 / 0.46 /      *80*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 950. /      *RG*
-----
R   AT 14815 / 53 / 5370. / 2055. / 156322. / 1.11 / 259. / 986.
    2667.55 / 0.12 / 0.08 / 0.0 / 2667.67 / 2.61 / 0.28 / -0.000 *AS*
-----
M = 0.85 / E = 0.49 / K* = 1.38 / 2998. / 277153. / 1.05 / 252. / 1017.
    2668.81 / 0.05 /           / 2668.86 / 1.79 / 0.16 /      *AS*
===== END BRIDGE ANALYSIS =====
S   AT 15615 / 800 / 5370. / 1188. / 89674. / 1.09 / 13. / 370.
    2669.59 / 0.35 / 0.93 / 0.15 / 2669.94 / 4.52 / 0.46 / 0.001 *XS*
-----
T-TW AT 16324 / 709 / 5370. / 671. / 60235. / 1.35 / 17. / 151.
    2672.88 / 1.35 / 3.79 / 0.50 / 2674.22 / 8.00 / 0.64 / 0.000 *XS*
=====
    
```

END OF THIS PROFILE

* adjusted by visual inspection of backwater curve - a number 7,117 - used.

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 UP N-T
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

0	; KU/KD < 0.7 OR > 1.4		ALERTED USER
Q-TW	; KU/KD < 0.7 OR > 1.4		ALERTED USER
S	; KU/KD < 0.7 OR > 1.4		ALERTED USER
T-TW	; KU/KD < 0.7 OR > 1.4		ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 UP N-T
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

=====

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
N	AT	13320	0	9100.	2469.	197244.	1.09	23.	708.
2663.25	0.23			2663.48	3.69	0.35			*IS*

O	AT	14370	1050	9100.	1254.	118839.	1.12	41.	290.
2666.62	0.91	3.71	0.34	2667.53	7.26	0.57	0.003		*XS*

Q-TW	AT	14762	392	7700.	2168.	191179.	1.20	12.	618.
2668.52	0.23	1.22	0.0	2668.75	3.55	0.32	-0.000		*XS*

===== BEGIN BRIDGE ANALYSIS =====

BR-QR	AT	14762		5318.	626.	63152.	1.00	0.	82.
2668.30	1.12	...	3...	(0.047)	8.50	0.50			*B0*

EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 2426. / *RG*

R	AT	14815	53	7700.	2913.	265096.	1.06	252.	1016.
2668.70	0.11	0.06	0.0	2668.81	2.64	0.24	-0.000		*AS*

M = ****	E = ****	K* = ****	4101.	442898.	1.02	227.	1042.		
2670.21	0.06		2670.27	1.88	0.15				*AS*

===== END BRIDGE ANALYSIS =====

S	AT	15615	800	7700.	1636.	144808.	1.05	11.	393.
2670.80	0.36	0.74	0.15	2671.16	4.71	0.43	0.000		*XS*

T-TW	AT	16324	709	7700.	801.	76679.	1.32	15.	157.
2673.82	1.90	3.79	0.77	2675.72	9.61	0.73	0.000		*XS*

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
5 1606	250	1 26580	300	1 26596	350	1 26592	400	1 26594
5 1607	500	1 26596	550	1 26577	600	1 26572	614	2 26568
5 1608	620	3 26520	626	3 26508	634	3 26503	645	3 26504
5 1609	652	4 26542	656	5 26569	670	5 26582	680	5 26620
5 1610	725	5 26634	729	5 26624	733	5 26666	740	5 26758
6 1615	1 2 045 035	2 4 055 045	2 4 055 045	2 4 055 045	2 4 055 045	1 2 070 050		
3 1700	N 0	34 3 2652	13320	99 99				
5 1705	0	1 26737	13	1 26673	27	1 26614	42	1 26591
5 1706	100	1 26596	150	1 26602	200	1 26605	250	1 26613
5 1707	352	1 26603	400	1 26604	450	1 26610	500	1 26598
5 1708	550	1 26577	585	2 26589	597	2 26564	601	2 26529
5 1709	611	2 26512	619	2 26521	624	2 26531	625	2 26543
5 1710	650	3 26589	694	3 26584	703	3 26625	713	3 26639
5 1711	740	3 26545	747	3 26698	757	3 26716	762	3 26736
5 1715	2 4 045 040	1 2 055 055	1 2 070 055					

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 3,DATE= 2/ 2/78

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 10,50,100,500 I-N

SECID	ERROR SEVERITY	FIRST VARIABLE NO.	ERROR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
B0-LM	WARNING	STATION 11	IS LESS THAN	STATION 10	

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 4, DATE= 2/ 2/78

INPUT SUMMARY FOR: COVE CREEK LOWER 10.50,100.500 I-N

8 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 8 TYPE 3 CARDS

KEPT 8 CROSS SECTIONS FOR EDITING

8 " " VALID FOR PROPERTY COMPUTATIONS

8 " " " " PROFILE "

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

I-N

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

M-APP: KU/KD < 0.7 OR > 1.4

ALERTED USER

N : KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER (10,50,100,500 I-N
 PAGE 1 OF 1. PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
I   AT   8710 /    0 /  3170. /  727. /  55927. / 1.72 /  34. /  311.
    2645.94 /  0.51 /          / 2646.45 /  4.36 /  0.43 /          *IS*
-----
J   AT  10335 / 1625 /  3170. /  970. /  62820. / 1.61 /  49. /  561.
    2650.84 /  0.27 /  4.65 /  0.0 / 2651.10 /  3.27 /  0.35 /  0.006 *XS*
-----
K   AT  11705 / 1370 /  3170. /  951. /  53878. / 1.27 /  13. /  537.
    2654.95 /  0.22 /  4.07 /  0.0 / 2655.17 /  3.33 /  0.42 /  0.001 *XS*
-----
L-TW AT  12858 / 1153 /  3170. /  542. /  44054. / 1.78 /  362. /  709.
    2659.48 /  0.94 /  4.88 /  0.36 / 2660.42 /  5.85 /  0.55 /  0.008 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-LM AT  12858 /      /  1578. /  211. /  11207. / 1.00 /  0. /  34.
    2657.00 /  0.87 /      ...3... (-.001) /  7.46 /  0.53 /          *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT  1442. / RIGHT  147. /          *RG*
-----
M-APP AT  12906 /  48 /  3170. /  991. /  74188. / 2.24 /  15. /  675.
    2660.23 /  0.36 /  0.15 /  0.0 / 2660.59 /  3.20 /  0.35 /  0.015 *AS*
-----
M = **** / E = **** / KV = **** / 1203. / 96387. / 1.85 / 145. / 676.
    2660.63 /  0.20 /          / 2660.83 /  2.64 /  0.27 /          *AS*
===== END BRIDGE ANALYSIS =====
N   AT  13320 /  414 /  3170. / 1164. /  63167. / 1.66 /  27. /  700.
    2661.33 /  0.19 /  0.68 /  0.0 / 2661.52 /  2.72 /  0.31 /  0.002 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 I-N
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

M-APP: KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 I-N
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  NS FLEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC  *ID*
=====
I   AT   8710 /    0 /  5350. / 1163. / 106360. / 1.30 /  22. / 314.
    2647.46 /  0.43 /          / 2647.89 /  4.60 /  0.40 /      *IS*
-----
J   AT  10335 / 1625 /  5350. / 1403. / 107463. / 1.24 /  46. / 564.
    2651.68 /  0.28 /  4.07 /  0.0 / 2651.96 /  3.81 /  0.39 / 0.004 *XS*
-----
K   AT  11705 / 1370 /  5350. / 1298. /  92815. / 1.08 /  12. / 539.
    2655.61 /  0.28 /  3.93 /  0.00 / 2655.90 /  4.12 /  0.43 / 0.004 *XS*
-----
L-TW AT 12958 / 1153 /  5350. /  970. /  68018. / 2.32 / 199. / 712.
    2660.44 /  1.10 /  5.23 /  0.41 / 2661.54 /  5.52 /  0.62 / 0.003 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-LM AT 12958 /    /  1506. /  211. / 11207. / 1.00 /  0. / 34.
    2657.00 /  0.79 /    ...3... (-.001) /  7.12 /  0.50 /      *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT  3432. / RIGHT  326. /      *RG*
-----
M-APP AT 12906 /  48 /  5350. / 1638. / 152273. / 1.39 / 132. / 679.
    2661.44 /  0.23 /  0.13 /  0.0 / 2661.67 /  3.27 /  0.31 / 0.002 *AS*
-----
M = **** / E = **** / K* = **** / 1638. / 152273. / 1.39 / 132. / 679.
    2661.44 /  0.23 /          / 2661.67 /  3.27 /  0.31 /      *AS*
===== END BRIDGE ANALYSIS =====
N   AT  13320 /  414 /  5350. / 1746. / 111821. / 1.28 /  25. / 702.
    2662.19 /  0.19 /  0.70 /  0.0 / 2662.38 /  3.06 /  0.32 / 0.010 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10.50.100.500 I-N
PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

M-APP: KU/KD < 0.7 OR > 1.4

ALERTED USER

M-APP: MAX QRD < QT (3)

CHECKED QRD

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 1-N
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
I AT 8710 / 0 / 6390. / 1368. / 134484. / 1.21 / 20. / 315.
 2648.16 / 0.41 / / 2648.57 / 4.67 / 0.38/ *IS*
-----
J AT 10335 / 1625 / 6390. / 1588. / 131776. / 1.14 / 45. / 565.
 2652.04 / 0.29 / 3.74 / 0.0 / 2652.32 / 4.02 / 0.41 / 0.008 *XS*
-----
K AT 11705 / 1370 / 6390. / 1444. / 110007. / 1.06 / 12. / 539.
 2655.89 / 0.32 / 3.86 / 0.02 / 2656.21 / 4.43 / 0.44 / 0.014 *XS*
-----
L-TW AT 12858 / 1153 / 6390. / 1142. / 81712. / 2.16 / 192. / 714.
 2660.77 / 1.05 / 5.24 / 0.36 / 2661.82 / 5.59 / 0.62 / 0.007 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-LM AT 12858 / / 1532. / 211. / 11207. / 1.00 / 0. / 34.
 2657.00 / 0.82 / ...3... (-.001) / 7.25 / 0.51 / *BO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 4543. / RIGHT 435. / *RG*
-----
M-APP AT 12906 / 48 / 6390. / 1777. / 170958. / 1.33 / 128. / 679.
 2661.69 / 0.27 / 0.14 / 0.0 / 2661.96 / 3.60 / 0.33 / -0.002 *AS*
-----
M = **** / F = **** / K* = **** / 1836. / 179296. / 1.31 / 127. / 679.
 2661.80 / 0.25 / / 2662.05 / 3.48 / 0.32 / *AS*
===== END BRIDGE ANALYSIS =====
N AT 13320 / 414 / 6390. / 1991. / 137943. / 1.19 / 24. / 703.
 2662.55 / 0.19 / 0.68 / 0.0 / 2662.74 / 3.21 / 0.32 / 0.010 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 I-N
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

M-APP; KU/KD < 0.7 OR > 1.4	:	ALERTED USER
M-APP; MAX QBD < QT (3)	:	CHECKED QRD

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10.50,100,500 I-N
 PAGE 1 OF 1. PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
I AT 8710 / 0 / 9100. / 1483. / 214933. / 1.10 / 15. / 319.
 2649.88 / 0.40 / / 2650.28 / 4.83 / 0.32 / *IS*
-----
J AT 10335 / 1625 / 9100. / 2113. / 204731. / 1.06 / 42. / 569.
 2653.04 / 0.30 / 3.06 / 0.0 / 2653.34 / 4.31 / 0.40 / 0.005 *XS*
-----
K AT 11705 / 1370 / 9100. / 1790. / 155544. / 1.03 / 12. / 541.
 2656.55 / 0.41 / 3.56 / 0.05 / 2656.96 / 5.08 / 0.45 / 0.001 *XS*
-----
L-TW AT 12858 / 1153 / 9100. / 1519. / 117557. / 1.79 / 175. / 716.
 2661.48 / 1.00 / 5.22 / 0.29 / 2662.48 / 5.99 / 0.62 / 0.007 *XS*
===== BEGIN BRIDGE ANALYSIS =====
90-LM AT 12858 / / 1508. / 211. / 11207. / 1.00 / 0. / 34.
 2657.00 / 0.79 / ...3... (-.001) / 7.13 / 0.50 / *PO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 6894. / RIGHT 671. / *PS*
-----
M-APP AT 12906 / 48 / 9100. / 2101. / 217668. / 1.24 / 119. / 684.
 2662.27 / 0.36 / 0.16 / 0.0 / 2662.64 / 4.33 / 0.34 / -0.001 *AS*
-----
M = **** / F = **** / K* = **** / 2150. / 226544. / 1.23 / 118. / 686.
 2662.38 / 0.34 / / 2662.72 / 4.21 / 0.37 / *AS*
===== END BRIDGE ANALYSIS =====
N AT 13320 / 414 / 9100. / 2471. / 197610. / 1.09 / 23. / 708.
 2663.25 / 0.23 / 0.77 / 0.0 / 2663.48 / 3.68 / 0.35 / 0.001 *XS*
=====
    
```

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	COVE CREEK LOWER	10.50	100.500		A-M	17	4 02 05 30
2	2	262231	262305	262336	262403			
3	100	1	34	3	2614	1040	99	99
4	101	3390	5670	6760	9600			
5	105	0	1	26443	45	1	26379	65
6	106	194	1	26219	211	1	26212	250
7	107	400	1	26221	450	2	26223	465
8	108	484	2	26134	494	2	26137	494
9	109	546	3	26221	600	3	26220	650
10	110	890	3	26207	850	3	26197	884
11	111	912	3	26275	929	3	26255	933
12	115	1	2	050 045	2	4	040 045	1
13	201	0	31	3	2619	2650	99	99
14	205	0	1	26492	4	1	26419	12
15	206	71	1	26316	104	1	26280	150
16	207	200	1	26262	350	1	26261	400
17	208	350	1	26291	500	1	26247	629
18	209	362	2	26181	653	2	26198	654
19	210	427	3	26243	734	3	26317	748
20	211	477	3	26482				
21	215	1	2	050 035	1	2	050 050	1
22	301	0	26	3	2622	3720	99	99
23	305	0	1	26509	10	1	26419	34
24	306	77	1	26320	83	1	26291	135
25	307	175	2	26217	194	2	26214	186
26	308	214	3	26273	250	3	26273	300
27	309	250	3	26255	300	3	26299	325
28	310	250	3	26299				
29	311	1	2	045 040	1	2	050 050	1
30	401	0	30	2	2626	5095	99	99
31	405	0	1	26550	11	1	26425	31
32	406	76	1	26364	100	1	26333	150
33	407	300	1	26310	350	1	26311	380
34	408	330	2	26263	235	2	26263	286
35	409	410	3	26319	250	3	26295	290
36	410	450	3	26451	592	3	26427	716
37	411	1	2	045 040	1	2	050 050	1
38	501	0	25	2	2620	6020	99	99
39	505	0	1	26544	8	1	26472	32
40	506	71	1	26356	55	1	26350	62
41	507	75	1	26275	82	1	26281	95
42	508	150	2	26353	200	2	26349	250
43	509	375	2	26478	392	2	26488	412
44	510	1	2	060 050	1	2	045 035	
45	600	F-10	0	20	2	2631	6005	99

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8			
8	605	0	1 26542	10	1 26483	28	1 26446	53	2 26356	59	2 26419
9	606	65	2 26394	76	2 26354	87	2 26301	91	2 26297	96	2 26307
10	607	106	2 26318	115	2 26312	123	2 26303	130	2 26304	133	2 26336
11	608	147	2 26342	150	2 26378	163	2 26433	177	2 26499	198	2 26486
12	610	1	2 050 050	1	2 050 045						
13	700	RD-FG	2 12	1 2511	6805	15	26447	1	1		
14	705	0	1 26447	0	1 26377	11	1 26355	25	1 26346	29	1 26344
15	706	24	1 26333	32	1 26323	33	1 26311	40	1 26302	50	1 26303
16	708	64	1 26298	67	1 26299	67	1 26334	71	1 26341	74	1 26349
17	709	88	1 26352	92	1 26380	92	1 26447	0	-0 26447		
18	715	2	4 050 045								
19	800	RD-FG	4 3	3 30	2	3	2	1 1		2	
20	805	0	1 26515	25	1 26493	62	1 26471	124	2 26468	172	3 26468
21	806	219	3 26468	239	3 26480	262	3 26503				
22	900	APP-5	5 14	3 2631	7045	1	3				
23	905	0	1 26538	10	2 26437	15	2 26383	20	2 26369	20	2 26359
24	906	33	2 26327	35	2 26312	41	2 26302	47	2 26309	55	2 26303
25	907	63	2 26317	66	2 26334	78	2 26365	87	2 26374	102	3 26425
26	908	107	3 26442	116	3 26475	142	3 26505				
27	915	2	4 050 045	2	4 050 045	2	4 050 045				
28	1000	1	27	3 2634	7690	99	99				
29	1001	2170	5350	6390	9100						
30	1005	0	1 26545	11	1 26497	20	1 26460	27	1 26438	27	1 26427
31	1006	46	2 26409	105	2 26393	110	2 26372	116	2 26350	118	2 26336
32	1007	123	2 26332	129	2 26332	139	2 26322	143	2 26333	144	2 26359
33	1008	153	3 26378	162	3 26399	207	3 26414	215	3 26450	219	3 26480
34	1009	226	3 26499	241	3 26499	300	3 26498	350	3 26511	400	3 26522
35	1010	432	3 26517	440	3 26552						
36	1015	1	2 055 045	1	2 050 045	1	2 045 050				
37	1100	2	14	2 2637	2710	91	99				
38	1105	9	1 26575	12	1 26507	23	1 26473	25	1 26460	46	1 26440
39	1106	100	1 26457	150	1 26451	200	1 26460	250	2 26427	262	2 26401
40	1107	204	2 26376	271	2 26372	278	2 26373	290	2 26371	295	2 26373
41	1108	296	2 26398	305	2 26429	316	2 26427	320	2 26415		
42	1112	1	3 050 045	1	2 055 045						
43	1200	1	25	3 2644	10335	92	76				
44	1205	0	1 26474	23	1 26499	31	1 26495	47	1 26475	57	1 26485
45	1206	102	1 26474	105	1 26495	120	2 26469	130	2 26452	141	2 26442
46	1207	148	2 26432	150	2 26420	175	2 26479	176	2 26461	171	2 26462
47	1208	175	2 26409	180	2 26495	200	1 26510	200	1 26496	200	1 26492
48	1209	200	2 26432	172	1 26433	202	1 26481	202	1 26480	210	1 26480
49	1210	221	3 26468	229	2 26482	220	1 26495	220	1 26464		
50	1212	1	3 050 045	1	2 050 045	1	2 045 045				
51	1300	1	30	1 2640	11000	99	99				
52	1305	0	1 26507	1	2 26437	27	1 26495	35	1 26495	35	1 26495

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8			
	0	5	0	5	0	5	0	5			
4	1306	50	1 26528	100	1 26531	150	1 26539	200	1 26543	250	2 26541
5	1307	290	2 26513	294	2 26495	295	2 26490	299	2 26487	307	2 26479
5	1308	315	2 26483	320	2 26491	321	2 26514	326	3 26532	350	3 26540
5	1309	400	3 26535	450	3 26535	500	3 26534	534	3 26539	553	3 26616
5	1310	573	3 26596	576	3 26584	579	3 26603	580	3 26529	583	3 26492
6	1315	1 2 045	040	1 2 050	045	1 2 045	035				
3	1400	1-TW	0 30	3 2651	12858	99	99				
5	1405	0	1 26728	18	1 26718	48	1 26693	100	1 26656	150	1 26626
5	1406	200	1 26604	250	1 26597	300	1 26595	350	1 26597	400	1 26589
5	1407	450	1 26596	500	1 26600	550	1 26584	600	1 26577	630	2 26578
5	1408	636	2 26533	639	2 26522	644	2 26596	649	2 26503	661	2 26502
5	1409	667	2 26521	669	2 26539	677	3 26579	705	3 26583	722	3 26632
5	1410	746	3 26633	750	3 26625	757	3 26654	800	3 26685	802	3 26741
6	1415	1 2 050	045	2 4 055	045	1 2 065	065				
3	1500	HO-LM	2 11	1 2650	12858	0	26569	1 0			
5	1505	0	1 26567	0	1 26530	3	1 26530	6	1 26507	12	1 26495
5	1506	16	1 26495	18	1 26488	26	1 26505	33	1 26519	34	1 26570
5	1507	0	-9 26567								
6	1515	1 2 055	055								
3	1550	1-LM	4 10	2 16	1 2	2 2					
5	1555	0	1 26724	38	1 26703	88	1 26675	140	1 26639	150	1 26633
5	1556	200	1 26604	250	1 26599	300	1 26595	350	1 26596	400	1 26600
5	1557	450	1 26606	500	1 26608	550	1 26598	600	1 26587	647	1 26589
5	1558	665	2 26591	683	2 26593	735	2 26633	757	2 26634		
3	1600	HO-LM	5 29	5 2652	12906	2 4					
5	1605	0	1 26721	50	1 26684	100	1 26635	150	1 26603	200	1 26596
5	1606	250	1 26580	300	1 26596	350	1 26592	400	1 26594	450	1 26602
5	1607	500	1 26596	550	1 26577	600	1 26572	614	2 26568	618	3 26536
5	1608	620	3 26520	626	3 26508	634	3 26503	645	3 26504	648	3 26514
5	1609	652	4 26542	656	5 26569	670	5 26582	680	5 26620	701	5 26634
5	1610	725	5 26636	729	5 26624	734	5 26666	740	5 26758		
6	1615	1 2 045	045	2 4 055	045	2 4 055	045	1 2 070	050		

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 10,50,100,500 A-M

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BR-FG	WARNING	STATION	19	IS LESS THAN	STATION	18	
I	WARNING	HSURO		IS LESS THAN	GMIN		> GMIN
BO-LM	WARNING	STATION	11	IS LESS THAN	STATION	10	

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 5, DATE= 1/16/78

INPUT SUMMARY FOR: COVE CREEK LOWER 10,50,100,500 A-1

17 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 17 TYPE 3 CAPDS

KEPT 17 CROSS SECTIONS FOR EDITING

17 " " VALID FOR PROPERTY COMPUTATIONS

17 " " " " PROFILE "

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 24, DATE= 1/16/78

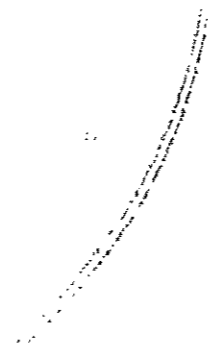
PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

A-M

SECID: EPROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN:

H-APP: KU/KD < 0.7 OR > 1.4

ALERTED USER



WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500
 PAGE 1 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC  *ID*
=====
A   AT   1040 /    0 /   3390. /  1005. /  60100. / 1.70 /  174. /  390.
    2622.31 /  0.30 /           / 2622.61 /  3.37 /  0.41 /      *IS*
-----
B   AT   2650 /  1610 /   3390. /  1113. /  72925. / 1.56 /  150. /  731.
    2626.61 /  0.23 /  4.22 /  0.0 / 2626.83 /  3.05 /  0.32 / -0.002 *XS*
-----
C   AT   3720 /  1070 /   3390. /   975. /  57173. / 1.21 /   82. /  508.
    2629.54 /  0.28 /  2.95 /  0.03 / 2629.82 /  3.87 /  0.44 /  0.012 *XS*
-----
D   AT   5095 /  1375 /   3390. /   989. /  66856. / 1.21 /   97. /  541.
    2633.74 /  0.22 /  4.13 /  0.0 / 2633.97 /  3.43 /  0.44 /  0.009 *XS*
-----
E   AT   6020 /   925 /   3390. /   773. /  59140. / 1.17 /   50. /  343.
    2636.33 /  0.35 /  2.69 /  0.06 / 2636.73 /  4.39 /  0.33 /  0.005 *XS*
-----
F-TW AT   6805 /   785 /   3390. /   523. /  55724. / 1.00 /   66. /  153.
    2638.96 /  0.65 /  2.74 /  0.15 / 2639.62 /  6.48 /  0.46 /  0.001 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BF-FC AT   6805 /           /   3390. /   503. /  44590. / 1.00 /    0. /   92.
    2638.96 /  0.71 /           / ..1... (-.001) /  6.74 /  0.50 /      *RS*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT      0. / RIGHT      0. /      *RS*
-----
APP-G AT   7045 /   240 /   3390. /   460. /  46952. / 1.00 /   13. /   24.
    2639.92 /  0.94 /  1.05 /  0.10 / 2640.77 /  7.37 /  0.54 /  0.009 *AS*
-----
  H = 0.0 / F = 1.00 / K* = 0.01 /  461. /  47014. / 1.00 /   13. /   24.
    2639.93 /  0.84 /           / 2640.77 /  7.35 /  0.54 /      *AS*
===== END BRIDGE ANALYSIS =====
H   AT   7690 /   645 /   3170. /   636. /  50313. / 1.40 /   27. /  216.
    2642.76 /  0.54 /  2.53 /  0.0 / 2643.30 /  4.39 /  0.48 /  0.001 *XS*
-----
I   AT   8710 /  1020 /   3170. /   727. /  55974. / 1.72 /   30. /  311.
    2645.94 /  0.51 /  3.14 /  0.0 / 2646.45 /  4.35 /  0.43 /  0.008 *XS*
-----
J   AT  10335 /  1625 /   3170. /   963. /  63124. / 1.64 /   49. /  361.
    2650.80 /  0.28 /  4.62 /  0.0 / 2651.02 /  3.29 /  0.35 /  0.005 *XS*
-----
K   AT  11705 /  1370 /   3170. /   946. /  53365. / 1.27 /   13. /  437.
    2654.94 /  0.22 /  4.00 /  0.0 / 2655.17 /  3.35 /  0.43 /  0.001 *XS*
-----
L-T4 AT  12658 /  1153 /   3170. /   547. /  44364. / 1.79 /   361. /  709.
    2659.50 /  0.93 /  4.89 /  0.35 / 2660.43 /  5.79 /  0.55 /  0.017 *XS*
===== BEGIN BRIDGE ANALYSIS =====
PQ-LM AT  12658 /           /  1576. /   211. /  11207. / 1.00 /    0. /   34.
    2657.00 /  0.86 /           / ..3... (-.001) /  7.45 /  0.53 /      *RS*
=====
    
```

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 26,DATE= 1/16/78

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500

A-M

PAGE 2 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 1472. / RIGHT 150. / *RG*
=====
M-APP AT 12906 / 48 / 3170. / 982. / 73374. // 2.26 / 153. / 675.
2560.21 / 0.37 / 0.15 / 0.0 / 2660.58 / 3.23 // 0.35 / 0.000 *AS*
=====
M = **** / E = **** / K* = **** / 1214. / 97760. / 1.83 / 144. / 676.
2660.65 / 0.19 / / 2660.85 / 2.61 / 0.27 / *AS*
===== END BRIDGE ANALYSIS =====
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10.50, 100.500
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

A-M

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

H : KU/KD < 0.7 OR > 1.4

ALERTED USER

M-APP: KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10(50,100,500) A-M
 PAGE 1 OF 2, PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECID	AT	HW	HF	HE	EG	V	FN	ACC	*ID*
A	1040	0	5670.	1539.	100279.	1.53	157.	992.	
	2623.06	0.32		2623.38	3.69	0.43			*IS*
B	2650	1610	5670.	1585.	121519.	1.22	124.	732.	
	2627.40	0.24	4.25	0.0	2627.64	3.58	0.38	0.014	*XS*
C	3720	1070	5670.	1206.	95778.	1.06	81.	515.	
	2630.30	0.36	2.96	0.06	2630.67	4.70	0.51	0.009	*XS*
D	5095	1375	5670.	1374.	109789.	1.08	91.	556.	
	2634.5	0.29	4.20	0.0	2634.88	4.13	0.39	0.005	*XS*
E	6020	925	5670.	1052.	96004.	1.04	49.	345.	
	2637.32	0.47	2.82	0.09	2637.79	5.39	0.52	0.001	*XS*
F-TW	6805	785	5670.	653.	76495.	1.00	62.	156.	
	2640.41	1.17	3.44	0.35	2641.58	2.68	0.58	0.001	*XS*
===== BEGIN BRIDGE ANALYSIS =====									
BR-FG	6805		5670.	632.	71052.	1.00	0.	92.	
	2640.41	1.25	...	1... (-.001)	8.98	0.59			*B0*
===== END BRIDGE ANALYSIS =====									
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RF*									
APP-G	7045	240	5670.	614.	71440.	1.00	12.	100.	
	2641.74	1.33	1.41	0.08	2643.07	9.23	0.62	-0.000	*AS*
	U = 0.0	F = 1.00	K* = 0.01	615.	71592.	1.00	12.	100.	
	2641.75	1.32		2643.08	9.22	0.61			*AS*
===== END BRIDGE ANALYSIS =====									
H	7690	695	5350.	1046.	114098.	1.26	23.	215.	
	2644.96	0.51	2.40	0.0	2645.47	5.11	0.38	0.000	*XS*
I	8710	1020	5350.	1163.	106349.	1.30	22.	314.	
	2647.66	0.43	2.41	0.0	2647.89	4.60	0.40	0.007	*XS*
J	10335	1625	5350.	1401.	138007.	1.26	46.	564.	
	2651.65	0.24	4.05	0.0	2651.94	3.82	0.35	0.004	*XS*
K	11705	1370	5350.	1292.	92083.	1.08	12.	539.	
	2655.60	0.29	3.94	0.00	2655.89	4.14	0.43	0.002	*XS*
L-TW	12858	1153	5350.	975.	60387.	2.31	199.	712.	
	2660.45	1.08	5.24	0.40	2661.53	5.49	0.51	0.004	*XS*
===== BEGIN BRIDGE ANALYSIS =====									
BR-FG	12858		5350.	1595.	11207.	1.00	0.	34.	
	2657.00	0.79	...	3... (-.001)	7.12	0.50			*B0*

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 A-M
PAGE 2 OF 2, PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / FG / V / FN / ACC *ID*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 3455. / RIGHT 328. / *RG*
-----
M-APP AT 12906 / 48 / 5350. / 1643. / 152973. / 1.39 / 132. / 679.
2661.45 / 0.23 / 0.13 / 0.0 / 2661.68 / 3.26 / 0.30 / 0.014 *AS*
-----
M = **** / E = **** / K* = **** / 1643. / 152973. / 1.39 / 132. / 679.
2661.45 / 0.23 / / 2661.68 / 3.26 / 0.30 / *AS*
===== END BRIDGE ANALYSIS =====
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 30. DATE= 1/16/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

A-M

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

H ; KU/KG < 0.7 OR > 1.4

ALERTED USER

M-APP; KU/KD < 0.7 OR > 1.4

ALERTED USER

M-APP; MAX QBD < QT (3)

CHECKED QRD

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10+50+100+500 A-M
 PAGE 1 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	REW	ID
A	AT	1040 / 2623.36	0 / 0.33	6760. /	1760. / 2623.69	119936. /	1.45 / 3.84	153. / 0.43	893. /	*IS*	
B	AT	2650 / 2627.70	1610 / 0.26	6760. / 4.26	1772. / 0.0	143848. / 2627.97	1.16 / 3.82	114. / 0.40	733. / 0.009	*XS*	
C	AT	3720 / 2630.62	1070 / 0.41	6760. / 2.99	1345. / 0.07	113854. / 2631.03	1.04 / 5.03	80. / 0.52	516. / 0.007	*XS*	
D	AT	5095 / 2634.95	1375 / 0.32	6760. / 4.23	1542. / 0.0	136605. / 2635.27	1.06 / 4.39	88. / 0.40	561. / 0.007	*XS*	
F	AT	6020 / 2637.71	925 / 0.53	6760. / 2.87	1167. / 0.11	112863. / 2638.24	1.02 / 5.79	48. / 0.54	346. / 0.000	*XS*	
F-TW	AT	6805 / 2640.98	785 / 1.42	6760. / 3.71	707. / 0.45	85600. / 2642.40	1.00 / 9.57	61. / 0.62	157. / -0.000	*XS*	
===== BEGIN BRIDGE ANALYSIS =====											
RD-FG	AT	6805 / 2640.99	/ 1.53	6760. /	682. / ...1... (-.001)	80175. /	1.00 / 9.91	0. / 0.63	92. /	*RD*	
===== END BRIDGE ANALYSIS =====											
EMBANKMENT OVERFLOW (CF5) / LEFT 0. / RIGHT 0. / *RG*											
APP-G	AT	7045 / 2642.48	240 / 1.54	6760. / 1.55	680. / 0.06	82668. / 2644.02	1.00 / 9.95	11. / 0.64	102. / 0.008	*AS*	
H = 0.0 / F = 1.00 / K = 0.01 / 631. / 82877. / 1.00 / 11. / 102. / 2642.49 / 1.53 / 2644.02 / 9.93 / 0.64 / *AS*											
===== END BRIDGE ANALYSIS =====											
H	AT	7690 / 2645.87	645 / 0.52	6390. / 2.36	1222. / 0.0	142351. / 2646.39	1.23 / 5.23	20. / 0.37	215. / 0.001	*XS*	
I	AT	8710 / 2648.16	1020 / 0.41	6390. / 2.18	1366. / 0.0	134311. / 2648.57	1.21 / 4.68	26. / 0.34	315. / 0.000	*XS*	
J	AT	10335 / 2652.01	1625 / 0.29	6390. / 3.73	1585. / 0.0	132487. / 2652.79	1.16 / 4.03	45. / 0.41	565. / 0.007	*XS*	
K	AT	11705 / 2655.88	1370 / 0.32	6390. / 3.87	1637. / 0.02	109160. / 2656.20	1.06 / 4.45	12. / 0.46	539. / 0.015	*XS*	
L-TW	AT	12858 / 2660.78	1153 / 1.04	6390. / 5.25	1147. / 0.36	82102. / 2661.82	2.15 / 5.57	191. / 0.61	714. / 0.007	*XS*	
===== BEGIN BRIDGE ANALYSIS =====											
RD-LM	AT	12858 / 2657.00	/ 0.81	6390. /	211. / ...3... (-.001)	11207. /	1.00 / 7.21	0. / 0.51	34. /	*RD*	

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 32 DATE= 1/16/78

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 A-M
PAGE 2 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

=====

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	IFW	PFW	WS ELEV	HV	HF	HE	EG	V	FM	ACC	ID*
-------	-------------	--------	-----------	------	------------	-------	-----	-----	---------	----	----	----	----	---	----	-----	-----

=====

EMBANKMENT OVERFLOW (CFS)	LEFT	4533.	RIGHT	434.													RG*
---------------------------	------	-------	-------	------	--	--	--	--	--	--	--	--	--	--	--	--	-----

=====

M-APP AT	12906	/	48	/	6390.	/	1775.	/	170717.	/	1.33	/	128.	/	679.		
	2661.69	/	0.27	/	0.14	/	0.0	/	2661.96	/	3.60	/	0.33	/	-0.002		AS*

=====

M = ****	/	E = ****	/	K# = ****	/	1834.	/	178992.	/	1.31	/	127.	/	679.			
	2661.80	/	0.25	/		/	2662.04	/	3.48	/	0.32	/					AS*

=====

END BRIDGE ANALYSIS

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10.50,100.500
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

A-M

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

F-TW ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

H ; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

M-APP; KU/KD < 0.7 OR > 1.4 ;

ALERTED USER

M-APP; MAX QBO < QT (3) ;

CHECKED QRD

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10+50+100+500 2-0
 PAGE 1 OF 2. PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

SECTION	AT	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	PEW
WS FLEV	HV	HF	HF	EG			FN	ACC
A	10+0	0	9600.	2259.	171652.	1.30	144.	294.
2624.03	0.36			2624.19	4.25	0.31		*IS*
B	2550	1610	9600.	2207.	200395.	1.08	100.	734.
2628.40	0.32	4.31	0.0	2628.12	4.35	0.43		*XS*
C	3720	1070	9600.	1574.	160958.	1.02	44.	518.
2631.37	0.52	3.07	0.10	2631.89	5.74	0.55		*XS*
D	5095	1375	9600.	1941.	185372.	1.03	82.	574.
2635.78	0.39	4.27	0.0	2635.17	4.95	0.42		*XS*
E	6020	925	9600.	1428.	155507.	1.00	47.	444.
2638.58	0.70	2.96	0.15	2639.28	6.72	0.58		*XS*
F-TW	6805	785	9600.	829.	107527.	1.00	58.	160.
2642.22	2.09	4.33	0.69	2644.30	11.58	0.71		*XS*
===== BEGIN BRIDGE ANALYSIS =====								
BR-FG	6805		9600.	792.	101282.	1.00	0.	92.
2642.22	2620	...	...	...	12.12	0.72		*R0*
===== END BRIDGE ANALYSIS =====								
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *R6*								
APP-G	7045	240	9600.	826.	112460.	1.01	10.	107.
2644.04	2.11	1.83	0.01	2645.15	11.62	0.69		*AS*
M = 0.00 / E = 0.01 / K* = 0.01 / 829. / 113001. / 1.01 / 10. / 107.								
2644.07	2.10			2645.17	11.58	0.68		*AS*
===== END BRIDGE ANALYSIS =====								
H	7690	645	9100.	1628.	216443.	1.17	15.	219.
2647.99	0.57	2.30	0.0	2648.47	5.59	0.36		*XS*
I	8710	1020	9100.	1883.	215047.	1.10	15.	319.
2649.88	0.40	1.81	0.0	2650.28	4.84	0.32		*XS*
J	10335	1625	9100.	2113.	205795.	1.07	42.	569.
2653.02	0.31	3.04	0.0	2653.33	4.31	0.40		*XS*
K	11705	1370	9100.	1783.	154526.	1.03	12.	341.
2656.52	0.42	3.57	0.05	2656.95	5.10	0.46		*XS*
L-T	12650	1153	9100.	1523.	117305.	1.79	17.	716.
2661.49	2.09	5.24	0.29	2662.08	8.91	0.62		*XS*
===== BRIDGE ANALYSIS =====								
BR-FG	12650		9100.	211.	11207.	1.00	0.	34.
2657.00	0.79	...	...	...	7.11	0.52		*R0*

USGS STEP-BACKWATER PROGRAM - VERSION 77.140 *** PAGE COUNT= 35, DATE= 1/16/78

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10+50+100+500 A-M
PAGE 2 OF 2, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

```
=====
SECTION AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LFW / REW
WS FLEV / HV / HF / HE / FG / V / FN / ACC *ID*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 6804. / RIGHT 571. / *RG*
=====
M-APP AT 12906 / 48 / 9100. / 2101. / 217689. / 1.24 / 119. / 684.
2662.28 / 0.36 / 0.15 / 0.0 / 2662.64 / 4.33 / 0.30 / -0.001 *AS*
=====
M = **** / E = **** / K* = **** / 2160. / 226544. / 1.23 / 118. / 686.
2662.34 / 0.34 / / 2662.72 / 4.21 / 0.37 / *AS*
===== END BRIDGE ANALYSIS =====
```

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
1	1	COVE CREEK LOWER	10,50,100,500	HACKWATER	A-N	12	4 02 05 10	
2	2	262306	262901	263189	263964			
3	100	A	1	34	3	2614	1040	99 99
4	101		3390	5670	6760	9600		
5	105		0	1	26443	45	1	26379 65 1 26320 110 1 26265 165 1 26225
5	106		194	1	26219	211	1	26212 250 1 26213 300 1 26227 350 1 26223
5	107		400	1	26221	450	2	26223 466 2 26205 470 2 26147 478 2 26130
5	108		484	2	26134	494	2	26137 498 2 26146 504 2 26170 525 2 26184
5	109		546	3	26221	600	3	26220 650 3 26214 700 3 26208 750 3 26207
5	110		800	3	26207	850	3	26197 884 3 26199 894 3 26239 904 3 26269
5	111		912	3	26275	929	3	26265 933 3 26253 946 3 26445
6	115	1	2 050	045	2	4 040	045	1 2 050 045
3	201	B	0	31	3	2619	2650	99 99
5	205		0	1	26492	4	1	26419 12 1 26375 32 1 26368 41 1 26365
5	206		71	1	26316	104	1	26280 150 1 26266 200 1 26263 250 1 26263
5	207		300	1	26262	350	1	26261 400 1 26259 450 1 26258 500 1 26241
5	208		550	1	26241	600	1	26237 629 2 26236 631 2 26195 636 2 26186
5	209		642	2	26181	653	2	26188 564 2 26195 665 3 26212 708 3 26223
5	210		727	3	26243	739	3	26317 748 3 26343 764 3 26335 768 3 26329
5	211		777	3	26492			
6	215	1	2 040	035	1	2 050	050	1 2 060 055
3	301	C	0	26	3	2622	3720	99 99
5	305		0	1	26502	16	1	26419 44 1 26312 50 1 26311 51 1 26319
5	306		77	1	26320	83	1	26291 135 1 26264 165 2 26263 173 2 26228
5	307		175	2	26217	184	2	26214 188 2 26213 190 2 26215 191 2 26243
5	308		204	3	26273	250	3	26278 300 3 26270 350 3 26285 400 3 26280
5	309		450	3	26285	500	3	26291 514 3 26299 525 3 26337 535 3 26398
5	310		550	3	26509			
6	315	1	2 045	040	1	2 050	050	1 2 040 035
3	401	D	0	30	3	2626	5095	99 99
5	405		0	1	26550	11	1	26425 31 1 26453 38 1 26460 65 1 26364
5	406		78	1	26364	100	1	26333 150 1 26323 200 1 26323 250 1 26325
5	407		300	1	26318	350	1	26311 380 2 26303 386 2 26293 387 2 26269
5	408		390	2	26263	395	2	26260 404 2 26251 407 2 26263 407 2 26272
5	409		410	3	26319	450	3	26295 500 3 26319 550 3 26342 600 3 26375
5	410		650	3	2640	692	3	26427 718 3 26502 736 3 26514 910 3 26550
6	415	1	2 045	040	1	2 050	050	1 2 045 035
3	501	E	0	25	2	2628	6020	99 99
5	505		0	1	26544	8	1	26472 12 1 26462 32 1 26473 35 1 26468
5	506		51	1	26356	55	1	26350 62 1 26294 62 1 26289 69 1 26283
5	507		75	1	26275	82	1	26284 95 1 26288 96 1 26299 100 2 26334
5	508		150	2	26353	200	2	26349 250 2 26348 300 2 26338 335 2 26337
5	509		375	2	26478	392	2	26488 412 2 26494 417 2 26484 426 2 26544
6	510	1	2 060	050	1	2 045	035	
3	600	F-T*	0	20	2	2631	6805	99 99

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8			
5	1306	50	1 26528	100	1 26531	150	1 26539	200	1 26543	250	2 26541
5	1307	290	2 26513	294	2 26495	295	2 26490	299	2 26482	307	2 26479
5	1308	315	2 26483	320	2 26491	321	2 26514	326	3 26532	350	3 26540
5	1309	400	3 26535	450	3 26535	500	3 26534	534	3 26539	553	3 26610
5	1310	573	3 26596	576	3 26584	579	3 26603	580	3 26620	583	3 26692
6	1315	1 2 045	040 1	2 050	045 1	2 045	035				
3	1400	L-TW	0 30	3 2651	12858	99	99				
5	1405	0	1 26728	18	1 26718	48	1 26693	100	1 26656	150	1 26626
5	1406	200	1 26604	250	1 26597	300	1 26595	350	1 26597	400	1 26588
5	1407	450	1 26596	500	1 26600	550	1 26584	600	1 26577	630	2 26578
5	1408	636	2 26533	639	2 26522	644	2 26506	649	2 26503	661	2 26502
5	1409	667	2 26521	669	2 26539	677	3 26579	705	3 26583	722	3 26632
5	1410	746	3 26633	750	3 26625	757	3 26654	800	3 26685	802	3 26741
6	1415	1 2 050	045 2	4 055	045 1	2 055	065				
3	1500	RD-LM	2 11	1 2650	12858	0	26569	1 0			
5	1505	0	1 26567	0	1 26530	3	1 26530	6	1 26507	12	1 26495
5	1506	16	1 26495	18	1 26488	26	1 26505	33	1 26519	34	1 26570
5	1507	0	-9 26567								
6	1515	1 2 055	055								
3	1550	RD-LM	4 19	2 16	1 2	2 2					
5	1555	0	1 26724	38	1 26703	88	1 26675	140	1 26639	150	1 26633
5	1556	200	1 26609	250	1 26599	300	1 26595	350	1 26596	400	1 26600
5	1557	450	1 26606	500	1 26608	550	1 26598	600	1 26587	647	1 26589
5	1558	665	2 26591	683	2 26593	735	2 26630	757	2 26634		
3	1600	M-APP	5 29	5 2652	12906	2	4				
5	1605	0	1 26721	50	1 26684	100	1 26675	150	1 26603	200	1 26586
5	1606	250	1 26580	300	1 26596	350	1 26572	400	1 26594	450	1 26602
5	1607	500	1 26596	550	1 26577	600	1 26572	614	2 26568	618	3 26536
5	1608	620	3 26520	626	3 26508	634	3 26503	645	3 26504	648	3 26514
5	1609	652	4 26542	656	5 26569	670	5 26582	680	5 26620	701	5 26634
5	1610	725	5 26634	729	5 26624	733	5 26666	740	5 26758		
6	1615	1 2 045	035 2	4 055	045 2	4 055	045 2	4 055	045 1	2 070	050
3	1700	N	0 34	3 2652	13320	99	99				
5	1705	0	1 26737	13	1 26673	27	1 26614	42	1 26591	56	1 26601
5	1706	100	1 26596	150	1 26602	200	1 26605	250	1 26613	300	1 26612
5	1707	352	1 26603	400	1 26604	450	1 26610	500	1 26598	523	1 26573
5	1708	550	1 26577	585	2 26589	597	2 26564	601	2 26529	605	2 26518
5	1709	611	2 26512	619	2 26521	624	2 26531	625	2 26543	631	3 26598
5	1710	650	3 26589	694	3 26584	703	3 26625	713	3 26639	733	3 26652
5	1711	740	3 26645	747	3 26698	757	3 26716	762	3 26736		
6	1715	2 4 045	040 1	2 045	055 1	2 070	055				

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 4, DATE= 1/24/78

PAGE 1 OF EDITING NOTES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BR-FG	WARNING	STATION	19	IS LESS THAN	STATION	18	
RO-LM	WARNING	STATION	11	IS LESS THAN	STATION	10	

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 5,DATE= 1/24/78

INPUT SUMMARY FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-A

18 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 18 TYPE 3 CARDS

KEPT 18 CROSS SECTIONS FOR EDITING

18 " " VALID FOR PROPERTY COMPUTATIONS

18 " " " " PROFILE "

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

B	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
M-APP	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
N	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N
 PAGE 1 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
A AT 1040 / 0 / 3390. / 1539. / 100279. / 1.53 / 157. / 892.
2623.06 / 0.12 / / 2623.17 / 2.20 / 0.25 / *IS*
-----
B AT 2650 / 1610 / 3390. / 856. / 58586. / 1.41 / 350. / .730.
2626.10 / 0.34 / 3.15 / 0.11 / 2626.44 / 3.96 / 0.40 / 0.004 *XS*
-----
C AT 3720 / 1070 / 3390. / 913. / 61122. / 1.19 / 82. / 509.
2629.63 / 0.25 / 3.43 / 0.0 / 2629.88 / 3.71 / 0.42 / 0.006 *XS*
-----
D AT 5095 / 1375 / 3390. / 962. / 64182. / 1.22 / 97. / 539.
2633.68 / 0.24 / 4.03 / 0.0 / 2633.92 / 3.52 / 0.46 / 0.010 *XS*
-----
E AT 6020 / 925 / 3390. / 779. / 59981. / 1.16 / 50. / 343.
2636.40 / 0.34 / 2.76 / 0.05 / 2636.74 / 4.35 / 0.38 / 0.003 *XS*
-----
F-TW AT 6805 / 785 / 3390. / 522. / 55538. / 1.00 / 66. / 152.
2638.95 / 0.66 / 2.71 / 0.16 / 2639.60 / 6.50 / 0.47 / 0.001 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BR-FG AT 6805 / / 3390. / 502. / 49393. / 1.00 / 0. / 92.
2638.95 / 0.71 / ...1... (-.001) / 6.76 / 0.50 / *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *R0*
-----
APP-G AT 7045 / 240 / 3390. / 460. / 46854. / 1.00 / 14. / 94.
2639.91 / 0.85 / 1.06 / 0.10 / 2640.76 / 7.38 / 0.55 / 0.000 *AS*
-----
M = 0.0 / E = 1.00 / K* = 0.01 / 460. / 46917. / 1.00 / 14. / 94.
2639.92 / 0.84 / / 2640.76 / 7.37 / 0.54 / *AS*
===== END BRIDGE ANALYSIS =====
H AT 7690 / 645 / 3170. / 636. / 58308. / 1.40 / 27. / 210.
2642.76 / 0.54 / 2.54 / 0.0 / 2643.30 / 4.99 / 0.42 / 0.001 *XS*
-----
I AT 8710 / 1020 / 3170. / 727. / 55974. / 1.72 / 30. / 311.
2645.94 / 0.51 / 3.14 / 0.0 / 2646.45 / 4.36 / 0.43 / 0.008 *XS*
-----
J AT 10335 / 1625 / 3170. / 963. / 63124. / 1.64 / 49. / 561.
2650.80 / 0.28 / 4.62 / 0.0 / 2651.08 / 3.29 / 0.35 / 0.005 *XS*
-----
K AT 11705 / 1370 / 3170. / 946. / 53365. / 1.27 / 13. / 537.
2654.94 / 0.22 / 4.09 / 0.0 / 2655.17 / 3.35 / 0.43 / 0.001 *XS*
-----
L-TW AT 12858 / 1153 / 3170. / 547. / 44368. / 1.79 / 361. / 709.
2659.50 / 0.93 / 4.89 / 0.35 / 2660.43 / 5.79 / 0.55 / 0.017 *XS*
===== BEGIN BRIDGE ANALYSIS =====
R0-LM AT 12858 / / 1576. / 211. / 11207. / 1.00 / 0. / 34.
2657.00 / 0.86 / ...3... (-.001) / 7.45 / 0.53 / *R0*
=====
    
```

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N
 PAGE 2 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
EMBRANKMENT OVERFLOW (CFS) / LEFT 1472. / RIGHT 150. / *RG*
-----
M-APP AT 12906 / 48 / 3170. / 982. / 73374. / 2.26 / 153. / 675.
2660.21 / 0.37 / 0.15 / 0.0 / 2660.58 / 3.23 / 0.35 / 0.000 *AS*
-----
M = **** / E = **** / K* = **** / 1214. / 97760. / 1.83 / 144. / 676.
2660.65 / 0.19 / / 2660.85 / 2.61 / 0.27 / *AS*
===== END BRIDGE ANALYSIS =====
N AT 13320 / 414 / 3170. / 1167. / 63433. / 1.66 / 27. / 700.
2661.33 / 0.19 / 0.67 / 0.0 / 2661.52 / 2.72 / 0.31 / 0.003 *XS*
-----
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

B	;	KU/KD < 0.7 OR > 1.4	;	ALERTED USER
C	;	KU/KD < 0.7 OR > 1.4	;	ALERTED USER
H	;	KU/KD < 0.7 OR > 1.4	;	ALERTED USER
M-APP	;	KU/KD < 0.7 OR > 1.4	;	ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N
 PAGE 1 OF 2, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
A AT 1040 / 0 / 5670. / 6249. / 795630. / 1.06 / 89. / 936.
  2629.01 / 0.01 / / 2629.02 / 0.91 / 0.06/ *IS*
-----
B AT 2650 / 1610 / 5670. / 2728. / 279701. / 1.04 / 93. / 735.
  2629.21 / 0.07 / 0.23 / 0.03 / 2629.28 / 2.08 / 0.19 / 0.000 *XS*
-----
C AT 3720 / 1070 / 5670. / 1220. / 97535. / 1.06 / 80. / 515.
  2630.34 / 0.36 / 1.26 / 0.14 / 2630.69 / 4.65 / 0.50 / 0.003 *XS*
-----
D AT 5095 / 1375 / 5670. / 1365. / 108728. / 1.08 / 91. / 556.
  2634.57 / 0.29 / 4.17 / 0.0 / 2634.86 / 4.15 / 0.40 / 0.002 *XS*
-----
E AT 6020 / 925 / 5670. / 1052. / 95974. / 1.04 / 49. / 345.
  2637.32 / 0.47 / 2.85 / 0.09 / 2637.79 / 5.39 / 0.52 / -0.011 *XS*
-----
F-TW AT 6805 / 785 / 5670. / 653. / 76499. / 1.00 / 62. / 156.
  2640.41 / 1.17 / 3.44 / 0.35 / 2641.58 / 8.68 / 0.58 / 0.001 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BR-FG AT 6805 / / 5670. / 632. / 71055. / 1.00 / 0. / 92.
  2640.41 / 1.25 / ...1... (-.001) / 8.98 / 0.59 / *RD*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG*
-----
APP-G AT 7045 / 240 / 5670. / 614. / 71444. / 1.00 / 12. / 100.
  2641.74 / 1.33 / 1.41 / 0.08 / 2643.07 / 9.23 / 0.62 / 0.000 *AS*
-----
M = 0.0 / E = 1.00 / K* = 0.01 / 615. / 71595. / 1.00 / 12. / 100.
  2641.75 / 1.32 / / 2643.08 / 9.22 / 0.61 / *AS*
===== END BRIDGE ANALYSIS =====
H AT 7690 / 645 / 5350. / 1046. / 114098. / 1.26 / 23. / 215.
  2644.96 / 0.51 / 2.40 / 0.0 / 2645.47 / 5.11 / 0.38 / 0.000 *XS*
-----
I AT 8710 / 1020 / 5350. / 1163. / 106349. / 1.30 / 22. / 314.
  2647.46 / 0.43 / 2.41 / 0.0 / 2647.89 / 4.60 / 0.40 / 0.007 *XS*
-----
J AT 10335 / 1625 / 5350. / 1401. / 108007. / 1.26 / 46. / 564.
  2651.66 / 0.29 / 4.05 / 0.0 / 2651.94 / 3.82 / 0.35 / 0.008 *XS*
-----
K AT 11705 / 1370 / 5350. / 1292. / 92083. / 1.08 / 12. / 539.
  2655.60 / 0.29 / 3.94 / 0.00 / 2655.89 / 4.14 / 0.43 / 0.002 *XS*
-----
L-TW AT 12858 / 1153 / 5350. / 975. / 68387. / 2.31 / 199. / 712.
  2660.45 / 1.08 / 5.24 / 0.40 / 2661.53 / 5.49 / 0.61 / 0.004 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-LM AT 12858 / / 1505. / 211. / 11207. / 1.00 / 0. / 34.
  2657.00 / 0.79 / ...3... (-.001) / 7.12 / 0.50 / *80*
=====
    
```

102
 w/0

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N
PAGE 2 OF 2, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT  3455. / RIGHT  328. / *RG*
-----
M-APP AT  12906 /   48 /  5350. /  1643. / 152973. / 1.39 /  132. /  679.
          2661.45 /  0.23 /  0.13 /  0.0 / 2661.68 /  3.26 /  0.30 /  0.014 *AS*
-----
M = **** / E = **** / K* = **** /  1643. / 152973. / 1.39 /  132. /  679.
          2661.45 /  0.23 /           / 2661.68 /  3.26 /  0.30 /           *AS*
===== END BRIDGE ANALYSIS =====
N   AT  13320 /  414 /  5350. /  1753. / 112486. / 1.28 /  25. /  702.
          2662.20 /  0.19 /  0.69 /  0.0 / 2662.38 /  3.05 /  0.31 /  0.017 *XS*
-----
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

R	; KU/KD < 0.7 OR > 1.4	;	ALERTED USER
C	; KU/KD < 0.7 OR > 1.4	;	ALERTED USER
D	; KU/KD < 0.7 OR > 1.4	;	ALERTED USER
H	; KU/KD < 0.7 OR > 1.4	;	ALERTED USER
M-APP	; KU/KD < 0.7 OR > 1.4	;	ALERTED USER
M-APP	; MAX QBD < QT (3)	;	CHECKED ORD

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N
 PAGE 1 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
A AT 1040 / 0 / 6760. / 8722. / 1348595. / 1.04 / 66. / 937.
  2631.89 / 0.01 / / 2631.90 / 0.78 / 0.04 / *IS*
-----
B AT 2650 / 1610 / 6760. / 4534. / 630370. / 1.02 / 69. / 740.
  2631.96 / 0.04 / 0.04 / 0.01 / 2632.00 / 1.49 / 0.11 / -0.000 *XS*
-----
C AT 3720 / 1070 / 6760. / 2077. / 219785. / 1.03 / 41. / 521.
  2632.25 / 0.17 / 0.35 / 0.07 / 2632.42 / 3.75 / 0.29 / -0.000 *XS*
-----
D AT 5095 / 1375 / 6760. / 1407. / 113723. / 1.08 / 90. / 557.
  2634.66 / 0.39 / 2.51 / 0.11 / 2635.05 / 4.81 / 0.46 / 0.006 *XS*
-----
E AT 6020 / 925 / 6760. / 1191. / 116643. / 1.02 / 48. / 347.
  2637.79 / 0.51 / 3.19 / 0.06 / 2638.30 / 5.67 / 0.53 / 0.005 *XS*
-----
F-TW AT 6805 / 785 / 6760. / 704. / 85070. / 1.00 / 61. / 157.
  2640.94 / 1.44 / 3.62 / 0.46 / 2642.38 / 9.61 / 0.62 / 0.001 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BR-FG AT 6805 / / 6760. / 679. / 79648. / 1.00 / 0. / 92.
  2640.94 / 1.54 / ...1... (-.001) / 9.95 / 0.63 / *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG*
-----
APP-G AT 7045 / 240 / 6760. / 677. / 82158. / 1.00 / 11. / 102.
  2642.44 / 1.55 / 1.57 / 0.06 / 2644.00 / 9.99 / 0.64 / -0.011 *AS*
-----
M = 0.0 / E = 1.00 / K* = 0.01 / 678. / 82371. / 1.00 / 11. / 102.
  2642.46 / 1.55 / / 2644.00 / 9.97 / 0.64 / *AS*
===== END BRIDGE ANALYSIS =====
H AT 7690 / 645 / 6390. / 1221. / 142247. / 1.23 / 20. / 216.
  2645.86 / 0.52 / 2.38 / 0.0 / 2646.39 / 5.23 / 0.37 / 0.001 *XS*
-----
I AT 8710 / 1020 / 6390. / 1366. / 134280. / 1.21 / 20. / 315.
  2648.16 / 0.41 / 2.18 / 0.0 / 2648.57 / 4.68 / 0.38 / 0.000 *XS*
-----
J AT 10335 / 1625 / 6390. / 1585. / 132503. / 1.16 / 45. / 565.
  2652.01 / 0.29 / 3.73 / 0.0 / 2652.30 / 4.03 / 0.41 / 0.008 *XS*
-----
K AT 11705 / 1370 / 6390. / 1437. / 109144. / 1.06 / 12. / 539.
  2655.88 / 0.33 / 3.87 / 0.02 / 2656.20 / 4.45 / 0.44 / 0.014 *XS*
-----
L-TW AT 12858 / 1153 / 6390. / 1147. / 82113. / 2.15 / 191. / 714.
  2660.78 / 1.04 / 5.25 / 0.36 / 2661.82 / 5.57 / 0.61 / 0.007 *XS*
===== BEGIN BRIDGE ANALYSIS =====
RO-LM AT 12858 / / 1525. / 211. / 11207. / 1.00 / 0. / 34.
  2657.00 / 0.81 / ...3... (-.001) / 7.21 / 0.51 / *R0*
=====
    
```

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N
 PAGE 2 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
EMBRANKMENT OVERFLOW (CFS) / LEFT  4533. / RIGHT  434. / *RG*
-----
M-APP AT  12906 /   48 /  6390. / 1775. / 170717. / 1.33 / 128. / 679.
          2661.69 /  0.27 /  0.14 /  0.0 / 2661.96 /  3.60 /  0.33 / -0.002 *AS*
-----
          M = **** / E = **** / K* = **** / 1834. / 178992. / 1.31 / 127. / 679.
          2661.80 /  0.25 /           / 2662.04 /  3.48 /  0.32 / *AS*
=====
END BRIDGE ANALYSIS
-----
N   AT  13320 /  414 /  6390. / 1989. / 137646. / 1.19 /  24. / 703.
          2662.55 /  0.19 /  0.69 /  0.0 / 2662.74 /  3.21 /  0.32 /  0.007 *XS*
-----
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

B	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
C	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
D	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
E	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
F-TW	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
H	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
M-APP	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
M-APP	: MAX QBO < QT (3)	:	CHECKED GRD

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N
 PAGE 1 OF 2, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
A   AT   1040 /    0 /   9600. / 15608. / 3421359. / 1.02 /  33. /  943.
    2639.64 / 0.01 /           / 2639.65 / 0.62 / 0.03/      *IS*
-----
B   AT   2650 / 1610 /   9600. / 10100. / 2209961. / 1.05 /   8. /  772.
    2639.64 / 0.01 / 0.02 / 0.00 / 2639.65 / 0.95 / 0.05 / -0.015 *XS*
-----
C   AT   3720 / 1070 /   9600. /  5762. / 1142918. / 1.03 /  22. /  535.
    2639.66 / 0.04 / 0.04 / 0.01 / 2639.71 / 1.67 / 0.09 / -0.000 *XS*
-----
D   AT   5095 / 1375 /   9600. /  4150. /  582303. / 1.00 /  55. /  645.
    2639.84 / 0.08 / 0.19 / 0.02 / 2639.92 / 2.31 / 0.15 / 0.000 *XS*
-----
E   AT   6020 /  925 /   9600. /  1942. /  254663. / 1.00 /  44. /  354.
    2640.26 / 0.38 / 0.57 / 0.15 / 2640.64 / 4.94 / 0.38 / 0.000 *XS*
-----
F-TW AT   6805 /  785 /   9600. /   815. /  104949. / 1.00 /  59. /  159.
    2642.08 / 2.16 / 2.71 / 0.89 / 2644.24 / 11.77 / 0.73 / -0.000 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BR-FG AT   6805 /           /   9600. /   780. /   98888. / 1.00 /   0. /   92.
    2642.08 / 2.35 /           ...1... (-.001) / 12.30 / 0.73 /      *80*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT   0. / RIGHT   0. /      *RG*
-----
APP-G AT   7045 /  240 /   9600. /   823. /  111663. / 1.01 /  10. /  106.
    2644.00 / 2.13 / 1.89 / 0.0 / 2646.13 / 11.67 / 0.69 / 0.009 *AS*
-----
M = 0.00 / E = 0.00 / K* = 0.01 /   825. /  112218. / 1.01 /  10. /  107.
    2644.03 / 2.12 /           / 2646.15 / 11.63 / 0.69 /      *AS*
===== END BRIDGE ANALYSIS =====
H   AT   7690 /  645 /   9100. /  1627. /  216745. / 1.17 /  15. /  219.
    2647.90 / 0.57 / 2.32 / 0.0 / 2648.47 / 5.59 / 0.36 / 0.001 *XS*
-----
I   AT   8710 / 1020 /   9100. /  1883. /  215009. / 1.10 /  15. /  319.
    2649.88 / 0.40 / 1.81 / 0.0 / 2650.28 / 4.83 / 0.32 / 0.000 *XS*
-----
J   AT  10335 / 1625 /   9100. /  2113. /  205795. / 1.07 /  42. /  569.
    2653.02 / 0.31 / 3.04 / 0.0 / 2653.33 / 4.31 / 0.40 / 0.004 *XS*
-----
K   AT  11705 / 1370 /   9100. /  1783. /  154526. / 1.03 /  12. /  541.
    2656.53 / 0.42 / 3.57 / 0.06 / 2656.95 / 5.10 / 0.46 / 0.002 *XS*
-----
L-TW AT  12858 / 1153 /   9100. /  1523. /  117936. / 1.79 /  175. /  716.
    2661.49 / 0.99 / 5.24 / 0.29 / 2662.48 / 5.97 / 0.62 / 0.005 *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-LM AT  12858 /           /   1504. /   211. /  11207. / 1.00 /   0. /   34.
    2657.00 / 0.79 /           ...3... (-.001) / 7.11 / 0.50 /      *80*
=====
    
```

WATER-SURFACE PROFILE FOR: COVE CREEK LOWER 10,50,100,500 BACKWATER A-N
 PAGE 2 OF 2, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT  6804. / RIGHT  671. / *RG*
-----
M-APP AT  12906 /   48 /  9100. / 2101. / 217689. / 1.24 / 119. / 684.
 2662.28 /  0.36 /  0.15 /  0.0 / 2662.64 /  4.33 /  0.38 / -0.001 *AS*
-----
M = **** / E = **** / K* = **** / 2160. / 226544. / 1.23 / 118. / 686.
 2662.38 /  0.34 /           / 2662.72 /  4.21 /  0.37 / *AS*
===== END BRIDGE ANALYSIS =====
N   AT  13320 /   414 /  9100. / 2471. / 197610. / 1.09 /  23. / 708.
 2663.25 /  0.23 /  0.77 /  0.0 / 2663.48 /  3.68 /  0.35 / 0.001 *XS*
-----
    
```

END OF THIS PROFILE

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0								
1	1 COVE CREEK <u>STARTING ELEVATIONS</u> DUM4 - A 5 12 02 05 10							
2	261731	261831	261931	261806	261906	262006	261835	261935 262035 261901
2	3	262001	262101					
3	20	DUM-4 1	34 3	2610	-210	99 99		
4	21	3390	3390	3390	5670	5670	5670 6760	6760 6760 9600
4	22	9600	9600					
5	25	0	1	26403	45	1	26339 65	1 26280 110 1 26225 165 1 26185
5	26	194	1	26179	211	1	26172 250	1 26173 300 1 26187 350 1 26183
5	27	400	1	26181	450	2	26183 466	2 26165 470 2 26107 478 2 26090
5	28	484	2	26094	494	2	26097 498	2 26106 504 2 26130 525 2 26144
5	29	546	3	26181	600	3	26180 650	3 26174 700 3 26168 750 3 26167
5	30	800	3	26167	850	3	26157 884	3 26159 894 3 26199 904 3 26229
5	31	912	3	26235	929	3	26225 433	3 26213 946 3 26405
6	35	1	2	050 045	2	4	040 045 1	2 050 045
3	40	DUM-3 0	34	3	2611		102 99 99	
5	45	0	1	26413	45	1	26349 65	1 26290 110 1 26235 165 1 26195
5	46	194	1	26189	211	1	26182 250	1 26183 300 1 26197 350 1 26193
5	47	400	1	26191	450	2	26193 466	2 26175 470 2 26117 478 2 26100
5	48	484	2	26104	494	2	26107 498	2 26116 504 2 26140 525 2 26154
5	49	546	3	26191	600	3	26190 650	3 26184 700 3 26178 750 3 26177
5	50	800	3	26177	850	3	26167 884	3 26169 894 3 26209 904 3 26239
5	51	912	3	26245	929	3	26235 933	3 26223 946 3 26415
6	55	1	2	050 045	2	4	040 045 1	2 050 045
3	60	DUM-2 0	34	3	2612		415 99 99	
5	65	0	1	26423	45	1	26359 65	1 26300 110 1 26245 165 1 26205
5	66	194	1	26199	211	1	26192 250	1 26193 300 1 26207 350 1 26203
5	67	400	1	26201	450	2	26203 466	2 26185 470 2 26127 478 2 26110
5	68	484	2	26114	494	2	26117 498	2 26126 504 2 26150 525 2 26164
5	69	546	3	26201	600	3	26200 650	3 26194 700 3 26188 750 3 26187
5	70	800	3	26187	850	3	26177 884	3 26179 894 3 26219 904 3 26249
5	71	912	3	26255	929	3	26245 933	3 26233 946 3 26425
6	75	1	2	050 045	2	4	040 045 1	2 050 045
3	80	DUM-1 0	34	3	2613		728 99 99	
5	85	0	1	26433	45	1	26369 65	1 26310 110 1 26255 165 1 26215
5	86	194	1	26209	211	1	26202 250	1 26203 300 1 26217 350 1 26213
5	87	400	1	26211	450	2	26213 466	2 26195 470 2 26137 478 2 26120
5	88	484	2	26124	494	2	26127 498	2 26136 504 2 26160 525 2 26174
5	89	546	3	26211	600	3	26210 650	3 26204 700 3 26198 750 3 26197
5	90	800	3	26197	850	3	26187 884	3 26189 894 3 26229 904 3 26259
5	91	912	3	26265	929	3	26255 433	3 26243 946 3 26435
6	95	1	2	050 045	2	4	040 045 1	2 050 045
3	100	A	0	34	3	2614	1040 99 99	
5	105	0	1	26443	45	1	26379 65	1 26320 110 1 26265 165 1 26225
5	106	194	1	26219	211	1	26212 250	1 26213 300 1 26227 350 1 26223
5	107	400	1	26221	450	2	26223 466	2 26205 470 2 26147 478 2 26130

Good

10 - 2622.31
 50 - 2623.06
 100 - 2623.35
 500 - 2624.01

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8			
.....5.....0.....5.....0	.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0	.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0	.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0	.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0	.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0	.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0	.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0	.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0			
5	108	484	2 26134	494	2 26137	498	2 26146	504	2 26170	525	2 26184
5	109	546	3 26221	600	3 26220	650	3 26214	700	3 26208	750	3 26207
5	110	800	3 26207	850	3 26197	884	3 26199	894	3 26239	904	3 26269
5	111	912	3 26275	929	3 26265	933	3 26253	946	3 26445		
6	115	1	2 050 045	2	4 040 045	1	2 050 045				

INPUT SUMMARY FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A

5 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 5 TYPE 3 CARDS

KEPT 5 CROSS SECTIONS FOR EDITING

5 " " VALID FOR PROPERTY COMPUTATIONS

5 " " " " PROFILE "

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 12 DATE= 1/19/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

DUM-3: KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
DUM-4	AT	-210	/	0	/	3390.	/	547.	/	36024.	/	1.52	/	208.	/	888.		
		2617.31	/	0.91	/	2618.22	/	6.20	/	0.68								*IS*
DUM-3	AT	102	/	312	/	3390.	/	1107.	/	66918.	/	1.68	/	167.	/	890.		
		2619.46	/	0.24	/	1.49	/	0.0	/	2619.71	/	3.06	/	0.37	/	0.002		*XS*
DUM-2	AT	415	/	313	/	3390.	/	1013.	/	60622.	/	1.70	/	174.	/	890.		
		2620.32	/	0.30	/	0.89	/	0.03	/	2620.62	/	3.35	/	0.41	/	-0.002		*XS*
DUM-1	AT	728	/	313	/	3390.	/	1003.	/	59985.	/	1.70	/	174.	/	890.		
		2621.31	/	0.30	/	0.99	/	0.00	/	2621.61	/	3.38	/	0.42	/	-0.001		*XS*
A	AT	1040	/	312	/	3390.	/	1003.	/	59985.	/	1.70	/	174.	/	890.		
		2622.31	/	0.30	/	1.00	/	0.0	/	2622.61	/	3.38	/	0.42	/	0.003		*XS*

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
DUM-4	AT -210	/ 0	/ 3390.	/ 1005.	/ 60100.	/ 1.70	/ 174.	/ 890.
	2618.31	/ 0.30	/	/ 2618.61	/ 3.37	/ 0.41		*IS*
DUM-3	AT 102	/ 312	/ 3390.	/ 1005.	/ 60100.	/ 1.70	/ 174.	/ 890.
	2619.31	/ 0.30	/ 0.99	/ 0.0	/ 2619.61	/ 3.37	/ 0.41	/ 0.007 *XS*
DUM-2	AT 415	/ 313	/ 3390.	/ 1005.	/ 60100.	/ 1.70	/ 174.	/ 890.
	2620.31	/ 0.30	/ 1.00	/ 0.0	/ 2620.61	/ 3.37	/ 0.41	/ 0.004 *XS*
DUM-1	AT 728	/ 313	/ 3390.	/ 1005.	/ 60100.	/ 1.70	/ 174.	/ 890.
	2621.31	/ 0.30	/ 1.00	/ 0.0	/ 2621.61	/ 3.37	/ 0.41	/ 0.004 *XS*
A	AT 1040	/ 312	/ 3390.	/ 1005.	/ 60100.	/ 1.70	/ 174.	/ 890.
	2622.31	/ 0.30	/ 0.99	/ 0.0	/ 2622.61	/ 3.37	/ 0.41	/ 0.007 *XS*

OK

10-4r

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 15,DATE= 1/19/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

DUM-3; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	WS ELEV	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW							
			HV	HF	HE	FG	V	FN	ACC							
									ID*							
DUM-4	AT	-210	/	0	/	3390.	/	1723.	/	116506.	/	1.46	/	154.	/	893.
		2619.31	/	0.09	/		/	2619.40	/	1.97	/	0.22	/		/	*IS*
DUM-3	AT	102	/	312	/	3390.	/	1247.	/	76776.	/	1.64	/	163.	/	891.
		2619.66	/	0.19	/	0.40	/	0.05	/	2619.85	/	2.72	/	0.33	/	0.000 *XS*
DUM-2	AT	415	/	313	/	3390.	/	1041.	/	62471.	/	1.69	/	172.	/	890.
		2620.36	/	0.28	/	0.75	/	0.05	/	2620.64	/	3.26	/	0.40	/	-0.001 *XS*
DUM-1	AT	728	/	313	/	3390.	/	1005.	/	60100.	/	1.70	/	174.	/	890.
		2621.31	/	0.30	/	0.96	/	0.01	/	2621.61	/	3.37	/	0.41	/	-0.005 *XS*
A	AT	1040	/	312	/	3390.	/	1005.	/	60100.	/	1.70	/	174.	/	890.
		2622.31	/	0.30	/	0.99	/	0.0	/	2622.61	/	3.37	/	0.41	/	0.007 *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 17. DATE= 1/19/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID: ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

DUM-3: KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
DUM-4	AT	-210	0	5670.	859.	52093.	1.66	186.	889.	2618.06	1.13			2619.19	6.60	0.80		*IS*
DUM-3	AT	102	312	5670.	1850.	128519.	1.42	152.	893.	2620.48	0.21	1.50	0.0	2620.69	3.07	0.34	0.003	*XS*
DUM-2	AT	415	313	5670.	1621.	107411.	1.50	156.	892.	2621.17	0.28	0.73	0.04	2621.46	3.50	0.40	0.001	*XS*
DUM-1	AT	728	313	5670.	1555.	101624.	1.52	157.	892.	2622.08	0.31	0.92	0.01	2622.40	3.65	0.42	0.002	*XS*
A	AT	1040	312	5670.	1540.	100413.	1.52	157.	892.	2623.06	0.32	0.98	0.00	2623.38	3.68	0.43	0.000	*XS*

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
 PAGE 1 OF 1, PROFILE NUMBER 5, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE	WS ELEV	HV	HF	HE	EG	V	FN	ACC	LEW	REW	AREA	CONVEYANCE	ALPHA	REW	ID
DUM-4	AT	-210	0	5670.	1539.	100279.	1.53	157.	892.							
		2619.06	0.32		2619.38	3.69	0.43									*IS*
DUM-3	AT	102	312	5670.	1539.	100279.	1.53	157.	892.							
		2620.06	0.32	1.00	0.0	2620.38	3.69	0.43	0.002							*XS*
DUM-2	AT	415	313	5670.	1539.	100279.	1.53	157.	892.							
		2621.06	0.32	1.00	0.0	2621.38	3.69	0.43	-0.001							*XS*
DUM-1	AT	728	313	5670.	1539.	100279.	1.53	157.	892.							
		2622.06	0.32	1.00	0.0	2622.38	3.69	0.43	-0.001							*XS*
A	AT	1040	312	5670.	1539.	100279.	1.53	157.	892.							
		2623.06	0.32	1.00	0.0	2623.38	3.69	0.43	0.002							*XS*

50-Yr

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
 PAGE 1 OF 1. PROFILE NUMBER 6, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE / WS ELEV /	LENGTH / HV /	DISCHARGE / HF /	AREA / HE /	CONVEYANCE / EG /	ALPHA / V /	LEW / FN /	REW / ACC /	WID*
DUM-4	AT -210 / 2620.06 /	0 / 0.12 /	5670. /	2281. / 2620.18 /	174224. / 2.49 /	1.29 / 0.23 /	144. /	895. /	*IS*
DUM-3	AT 102 / 2620.47 /	312 / 0.21 /	5670. / 0.45 /	1840. / 0.04 / 2620.68 /	127607. / 3.08 /	1.42 / 0.34 /	152. /	893. /	*XS*
DUM-2	AT 415 / 2621.17 /	313 / 0.29 /	5670. / 0.74 /	1618. / 0.04 / 2621.45 /	107096. / 3.50 /	1.50 / 0.40 /	156. /	892. /	*XS*
DUM-1	AT 728 / 2622.08 /	313 / 0.31 /	5670. / 0.93 /	1554. / 0.01 / 2622.40 /	101563. / 3.65 /	1.52 / 0.42 /	157. /	892. /	*XS*
A	AT 1040 / 2623.06 /	313 / 0.32 /	5670. / 0.98 /	1540. / 0.00 / 2623.38 /	100398. / 3.68 /	1.52 / 0.43 /	157. /	892. /	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 21,DATE= 1/19/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK STARTING ELEVATIONS DUM4 -- A
PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

DUM-3: KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
 PAGE 1 OF 1, PROFILE NUMBER 7, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE/	LENGTH/	DISCHARGE/	AREA	/CONVEYANCE/	ALPHA/	LEW	/ REW
WS ELEV /	HV /	HF /	HE /	EG /	V /	FN /	ACC	*ID*
DUM-4	AT -210 /	0 /	6760. /	1031. /	61828. /	1.69 /	172. /	890.
	2618.35 /	1.13 /		2619.48 /	6.56 /	0.80 /		*IS*
DUM-3	AT 102 /	312 /	6760. /	2075. /	151475. /	1.35 /	147. /	894.
	2620.78 /	0.22 /	1.52 /	0.0 /	2621.01 /	3.26 /	0.34 /	0.002 *XS*
DUM-2	AT 415 /	313 /	6760. /	1851. /	128678. /	1.42 /	151. /	893.
	2621.48 /	0.29 /	0.73 /	0.04 /	2621.78 /	3.65 /	0.40 /	0.001 *XS*
DUM-1	AT 728 /	313 /	6760. /	1778. /	121614. /	1.44 /	153. /	893.
	2622.38 /	0.32 /	0.91 /	0.02 /	2622.71 /	3.80 /	0.42 /	0.001 *XS*
A	AT 1040 /	312 /	6760. /	1759. /	119869. /	1.45 /	153. /	893.
	2623.36 /	0.33 /	0.98 /	0.00 /	2623.69 /	3.84 /	0.43 /	0.001 *XS*

END OF THIS PROFILE.

WATER-SURFACE PROFILE FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
 PAGE 1 OF 1, PROFILE NUMBER 8, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE / WS ELEV	LENGTH / HV	DISCHARGE / HF	AREA / HE	CONVEYANCE / EG	ALPHA / V	LEW / FN	REW / ACC	*ID*
DUM-4	AT -210 / 2619.35	/ 0.34	/ 0 /	6760. /	1752. /	119246. /	1.45 / 153.	893. /	*IS*
DUM-3	AT 102 / 2620.35	/ 0.34	/ 1.00	6760. /	1752. /	119246. /	1.45 / 153.	893. / -0.003	*XS*
DUM-2	AT 415 / 2621.35	/ 0.34	/ 1.01	6760. /	1752. /	119246. /	1.45 / 153.	893. / -0.006	*XS*
DUM-1	AT 728 / 2622.35	/ 0.34	/ 1.01	6760. /	1752. /	119246. /	1.45 / 153.	893. / -0.006	*XS*
A	AT 1040 / 2623.35	/ 0.34	/ 1.00	6760. /	1752. /	119246. /	1.45 / 153.	893. / -0.003	*XS*

OK

100-Yr

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: COVE CREEK STARTING ELEVATIONS DUM4 --A
 PAGE 1 OF 1, PROFILE NUMBER 9, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE / WS ELEV	LENGT / HV	DISCHARGE / F	AREA / HE	CONVEYANCE / EG	ALPHA / V	LEW / FN	REW / ACC	REMARKS
DUM-4	AT	-210 / 2620.35	0 / 0.14	6760. /	2500. /	199400. /	1.25 /	140. /	895.	*IS*
DUM-3	AT	102 / 2620.78	312 / 0.32	6760. /	2074. /	151320. /	1.35 /	147. /	894.	*XS*
DUM-2	AT	415 / 2621.48	313 / 0.29	6760. /	1851. /	128607. /	1.42 /	151. /	893.	*XS*
DUM-1	AT	728 / 2622.38	313 / 0.32	6760. /	1777. /	121597. /	1.44 /	153. /	893.	*XS*
A	AT	1040 / 2623.36	312 / 0.33	6760. /	1759. /	119852. /	1.45 /	153. /	893.	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 25,DATE= 1/19/78

PAGE 1 OF PROFILE NOTES FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
PROFILE NUMBER 10, UPSTREAM COMPUTATIONS

SECID; ERROR(WARNING) MESSAGE; INTERMEDIATE RESULTS(IF ANY); ACTION TAKEN

DUM-3; KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
 PAGE 1 OF 1, PROFILE NUMBER 10, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE / WS ELEV	LENGTH / HV	DISCHARGE / HF	AREA / HE	CONVEYANCE / EG	ALPHA / V	LEW / FN	REW / ACC	REMARKS / *ID*
DUM-4	AT -210 / 2619.01	/ 0 / 0.98	/ 9600. /	1502. / 2619.99	/ 97247. / 6.39	/ 1.54 / 0.74	/ 158. /	892. /	*IS*
DUM-3	AT 102 / 2621.24	/ 312 / 0.31	/ 9600. / 1.56	2414. / 2621.55	/ 189473. / 3.98	/ 1.26 / 0.36	/ 141. /	895. /	*XS*
DUM-2	AT 415 / 2622.08	/ 313 / 0.35	/ 9600. / 0.86	2299. / 2622.43	/ 176204. / 4.18	/ 1.29 / 0.38	/ 143. /	895. /	*XS*
DUM-1	AT 728 / 2623.03	/ 313 / 0.36	/ 9600. / 0.95	2259. / 2623.39	/ 171652. / 4.25	/ 1.30 / 0.39	/ 144. /	894. /	*XS*
A	AT 1040 / 2624.01	/ 312 / 0.37	/ 9600. / 0.98	2246. / 2624.38	/ 170157. / 4.28	/ 1.30 / 0.40	/ 144. /	894. /	*XS*

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
 PAGE 1 OF 1, PROFILE NUMBER 11, UPSTREAM COMPUTATIONS

SECID	AT DISTANCE / WS ELEV	LENGTH / HV	DISCHARGE / HF	AREA / HE	CONVEYANCE / EG	ALPHA / V	LEW / FN	REW / ACC	ID
DUM-4	AT -210 / 2620.01	0 / 0.37	9600. /	2244. / 2620.38	169950. / 4.28	1.30 / 0.40	144. /	894. /	*IS*
DUM-3	AT 102 / 2621.01	312 / 0.37	9600. / 1.00	2244. / 0.0 / 2621.38	169950. / 4.28	1.30 / 0.40	144. / 0.004	894. /	*XS*
DUM-2	AT 415 / 2622.01	313 / 0.37	9600. / 1.00	2244. / 0.0 / 2622.38	169950. / 4.28	1.30 / 0.40	144. / 0.001	894. /	*XS*
DUM-1	AT 728 / 2623.01	313 / 0.37	9600. / 1.00	2244. / 0.0 / 2623.38	169950. / 4.28	1.30 / 0.40	144. / 0.001	894. /	*XS*
A	AT 1040 / 2624.01	312 / 0.37	9600. / 1.00	2244. / 0.0 / 2624.38	169950. / 4.28	1.30 / 0.40	144. / 0.004	894. /	*XS*

OK

500-Yr.

END OF THIS PROFILE

WATER-SURFACE PROFILE FOR: COVE CREEK STARTING ELEVATIONS DUM4 - A
 PAGE 1 OF 1, PROFILE NUMBER 12, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
DUM-4	AT	-210	0	9600.	3002.	261921.	1.19	130.	898.
2621.01		0.19			2621.20	3.20	0.27		*IS*
DUM-3	AT	102	312	9600.	2607.	212168.	1.23	138.	896.
2621.49		0.26	0.52	0.04	2621.75	3.68	0.32	-0.000	*XS*
DUM-2	AT	415	313	9600.	2382.	185813.	1.27	142.	895.
2622.19		0.32	0.73	0.03	2622.51	4.03	0.37	0.001	*XS*
DUM-1	AT	728	313	9600.	2287.	174833.	1.29	143.	895.
2623.07		0.35	0.89	0.02	2623.42	4.20	0.39	0.001	*XS*
A	AT	1040	312	9600.	2254.	171070.	1.30	144.	894.
2624.02		0.37	0.96	0.01	2624.39	4.26	0.39	0.001	*XS*

END OF THIS PROFILE