

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	HOWARD CREEK FLOODWAY						
2	2	312317						
3	100	A	1	10	3	3115	000	99 99
4	101			3070				
5	105		0	1	31294	16	2	31197 29 2 31154 33 2 31143 40 2 31145
5	106		46	2	31147	50	2	31154 62 3 31192 104 3 31243 116 3 31296
6	107	1	2	070 070	2	4	045 055	1 2 065 065
3	200	R	0	15	3	3120	640	99 99
5	205		0	1	31316	3	1	31345 7 1 31354 28 1 31345 47 1 31259
5	206		85	1	31253	89	2	31247 92 2 31225 97 2 31217 103 2 31191
5	207		108	2	31211	112	2	31221 123 3 31304 139 3 31317 145 3 31363
6	208	1	2	060 060	3	5	045 050	1 2 070 070
3	300	C	0	19	2	3125	1170	99 99
5	305		0	1	31399	20	1	31337 61 1 31325 65 1 31336 77 1 31336
5	306		92	1	31321	100	1	31299 150 1 31305 200 2 31295 209 2 31283
5	307		210	2	31267	216	2	31259 221 2 31255 226 2 31249 231 2 31267
5	308		232	2	31277	240	2	31336 248 2 31380 250 2 31399
6	310	1	2	045 045	2	4	065 065	
3	400	D	0	19	3	3128	1875	99 99
5	410		0	1	31450	50	1	31424 100 1 31414 150 1 31404 244 1 31405
5	411		254	1	31398	267	1	31388 300 1 31358 350 1 31343 374 2 31340
5	412		380	2	31306	381	2	31282 385 2 31277 396 2 31283 397 2 31297
5	413		404	3	31332	424	3	31331 432 3 31374 440 3 31427
6	414	1	2	040 040	1	2	065 065	1 2 080 080
3	500	F-TW	0	18	3	3133	2530	99 99
5	505		330	1	31470	485	1	31421 550 1 31417 578 2 31418 585 2 31372
5	506		590	2	31327	592	2	31321 604 2 31322 615 2 31320 620 2 31327
5	507		622	2	31347	633	2	31372 642 3 31420 700 3 31424 750 3 31431
5	508		800	3	31439	850	3	31453 870 3 31460
6	510	1	2	045 045	2	4	045 045	1 2 050 050
3	600	PR. DP	2	20	1	3133	2530	0 31392 3 0
5	605		0	1	31392	0	1	31385 5 1 31374 15 1 31347 18 1 31332
5	606		20	1	31329	28	1	31326 34 1 31322 42 1 31325 48 1 31328
5	607		54	1	31326	58	1	31328 62 1 31339 68 1 31343 71 1 31358
5	608		76	1	31371	81	1	31378 85 1 31378 85 1 31392 0 -9 31392
6	609	1	2	050 050				
3	700	PIERS	3	6			2	
5	705		1		31275	1		31328 2 31328 2 31364 5 31364
5	706		5		31392			
3	800	ROAD	4	9	3	50	1	3 1 1 2
5	805		400	1	31480	400	1	31420 500 1 31421 569 2 31422 654 3 31422
5	806		790	3	31423	800	3	31434 900 3 31456 960 3 31473
3	900	F APP	5	33	4	3134	2674	1 3
5	905		520	1	31477	520	1	31433 550 1 31433 559 2 31421 571 2 31352
5	906		576	2	31347	581	2	31341 597 2 31342 617 2 31334 619 2 31344

FLOODWAY
CARBONS

CODE
RELATIONS
I-TW = I
K-APP = J
L = K
M = L

HOWARD CREEK
EXTRA RUNS &
CARBONS

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
5	907	632	2 31388	644	3 31372	700	3 31382	703
5	908	714	3 31397	732	3 31395	738	3 31379	743
5	909	760	3 31370	761	3 31365	763	3 31365	767
5	910	775	3 31398	800	4 31410	850	4 31418	900
5	911	1000	4 31445	1050	4 31455	1057	4 31477	950
6	915	1 2 035	035	2 4 055	050	2 4 055	050	1 2 045
3	1000	G 1 28	3 3139	3495	99 99			
4	1001	2880						
5	1005	0	1 31527	26	1 31462	81	1 31455	162
5	1006	176	2 31395	180	2 31387	186	2 31379	192
5	1007	200	3 31455	250	3 31479	300	3 31467	350
5	1008	427	3 31471	434	3 31455	439	3 31469	461
5	1009	473	3 31466	500	3 31469	550	3 31476	600
5	1010	700	3 31479	750	3 31495	766	3 31526	
6	1015	1 2 060	060	2 4 045	045	1 2 040	035	
3	1100	H 0 9	3 3146	4210	99 99			
5	1105	0	1 31610	12	1 31566	58	2 31534	63
5	1106	90	2 31458	110	3 31504	140	3 31527	166
6	1110	1 2 040	035	2 4 060	050	1 2 040	040	
3	1200	J-TW 0 17	3 3148	4337	99 99			
5	1210	0	1 31608	28	1 31570	75	1 31554	100
5	1211	151	2 31501	161	2 31477	174	2 31461	177
5	1213	196	3 31547	242	3 31543	264	3 31571	285
5	1214	335	3 31572	375	3 31605			
6	1220	1 2 075	075	2 4 060	055	1 2 040	040	
3	1300	RR-OP 2 8	1 3148	4337		0 31535	1 0	
5	1305	0	1 31535	0	1 31484	6	1 31477	16
5	1306	34	1 31476	34	1 31534	0	-9 31535	
6	1310	1 2 050	050					
3	1400	ROAD 4 12	2 28		1 2		1 1	2
5	1401	0	1 31611	100	1 31594	200	1 31584	300
5	1402	440	1 31556	457	2 31556	474	2 31556	500
5	1403	700	2 31593	800	2 31608			
3	1500	K-APP 5 25	4 3148	4424	1 4			
5	1505	0	1 31600	50	1 31569	100	1 31587	150
5	1506	250	1 31564	300	1 31556	350	1 31548	400
5	1507	500	1 31517	550	1 31508	575	2 31508	580
5	1508	582	3 31476	592	3 31478	600	3 31471	605
5	1509	609	4 31507	616	4 31552	650	4 31570	700
6	1515	1 2 035	035	1 2 035	035	1 2 050	050	1 2 050
3	1530	K+2.7 0 25	4 3151	4686	99 99			
5	1531	0	1 31627	50	1 31596	100	1 31615	150
5	1532	250	1 31591	300	1 31585	350	1 31575	400
5	1533	500	1 31544	550	1 31535	575	2 31535	580
5	1534	582	3 31503	592	3 31505	600	3 31498	605

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
5	1535	609	4 31534	616	4 31579	650	4 31597	700 4 31619 734 4 31638
6	1536	1 2 035 035	1 2 035 035	1 2 050 050	1 2 050 050	1 2 050 050		
3	1560	L-2.7 0 27	3 3154	4938 99 99				
5	1561	0 1 31666	7 1 31610	11 1 31626	35 1 31610	45 1 31599		
5	1562	47 1 31582	55 1 31577	105 1 31572	155 1 31565	205 1 31555		
5	1563	255 1 31554	305 1 31565	355 1 31566	405 1 31576	438 2 31573		
5	1564	447 2 31535	451 2 31527	462 2 31524	475 2 31529	476 2 31548		
5	1565	490 3 31568	505 3 31571	525 3 31567	555 3 31569	580 3 31562		
5	1566	593 3 31560	605 3 31669					
6	1567	1 2 040 040	1 2 050 050	1 2 075 075				
3	1600	L 0 27	3 3156	5200 99 99				
5	1605	0 1 31693	7 1 31637	11 1 31653	35 1 31637	45 1 31626		
5	1606	47 1 31609	55 1 31604	105 1 31599	155 1 31592	205 1 31582		
5	1607	255 1 31581	305 1 31592	355 1 31593	405 1 31603	438 2 31600		
5	1608	447 2 31562	451 2 31554	462 2 31551	475 2 31556	476 2 31575		
5	1609	490 3 31595	505 3 31598	525 3 31594	555 3 31596	580 3 31589		
5	1610	593 3 31587	605 3 31696					
6	1615	1 2 040 040	1 2 050 050	1 2 075 075				
3	1700	L 0 22	3 3164	6315 99 99				
5	1705	0 1 31773	43 1 31738	93 1 31715	143 1 31699	193 1 31687		
5	1706	243 1 31682	293 1 31679	343 1 31692	393 1 31670	443 1 31669		
5	1707	500 1 31672	508 2 31663	512 2 31638	526 2 31629	533 2 31628		
5	1708	542 2 31639	549 3 31683	558 3 31691	593 3 31697	628 3 31693		
5	1709	637 3 31745	643 3 31773					
6	1715	1 2 045 040	1 2 050 050	1 2 080 080				

PAGE 1 OF EDITING NOTES FOR: HOWARD CREEK FLOODWAY 1ST TRY

SECID	ERROR SEVERITY	FIRST VARIABLE NO.	ERROR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
BR-OP	WARNING	STATION 20	IS LESS THAN	STATION 19	
BR-OP	WARNING	STATION 8	IS LESS THAN	STATION 7	

INPUT SUMMARY FOR: HOWARD CREEK FLOODWAY 1ST TRY

19 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 19 TYPE 3 CARDS

KEPT 19 CROSS SECTIONS FOR EDITING

19 " " VALID FOR PROPERTY COMPUTATIONS

19 " " " " 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.....5.....
9 10010	100	HOR	10	95	312317			
9 10011	200	HOR	40	121	312915			
9 10012	300	HOR	150	240	313383			
9 10013	400	HOR	342	432	313752			
9 10014	500	HOR	579	640	314106			
9 10015	900	VHD 100	558	644	314235			
9 10018	1000	HOR 100	100	250	314727			
9 10021	1100	HOR	59	136	315239			
9 10022	1200	HOR	107	195	315404			
9 10023	1500	HOR 100	516	616	315675			
9 10024	1530	HOR 100	514	614	315693			
9 10025	1560	HOR	295	595	315810			
9 10026	1600	HOR	295	595	315993			
9 10027	1700	HOR	408	558	316951			
9 10028	END							

CAST TRY I HOPE

PAGE 1 OF PROFILE NOTES FOR: HOWARD CREEK FLOODWAY 1ST TRY
 PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

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

F	APPI	KU/KD < 0.7 OR > 1.4	:						
G		FRDN FAILURE	:	WS = 3145.74	& FR = 1.111				ALERTED USER
G		WS NOT FOUND BETWEEN	:						USED HIGHER WS
G		FRDN FAILURE	:	WS = 3142.29	& WS = 3152.701				USED DEL = 0.25
G		WS NOT FOUND BETWEEN	:						USED HIGHER WS
G		WS NOT FOUND	:	WS = 3142.29	& WS = 3152.701				USED WSMIN = WSC
K	APPI	KU/KD < 0.7 OR > 1.4	:						ASSUMED WS = WSC
K	+2.7:	KU/KD < 0.7 OR > 1.4	:						ALERTED USER
L		KU/KD < 0.7 OR > 1.4	:						ALERTED USER
M		WS TOO LOW	:						ALERTED USER
M		KU/KD < 0.7 OR > 1.4	:						USED WSMIN = WSC
			:						ALERTED USER

WATER-SURFACE PROFILE FOR: HOWARD CREEK FLOODWAY 1ST TRY
 PAGE 1 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** LAST TRY I HOPE

=====
 SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
 WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
 =====
 A AT 0 / 0 / 3070. / 397. / 33879. / 1.21 / 10. / 95.
 3123.17 / 1.12 / / / 3124.29 / 7.73 / 0.59 / *IS*

B AT 640 / 640 / 3070. / 376. / 29484. / 1.21 / 40. / 121.
 3129.15 / 1.25 / 6.04 / 0.07 / 3130.40 / 8.17 / 0.69 / 0.001 *XS*

C AT 1170 / 530 / 3070. / 480. / 37881. / 1.01 / 150. / 240.
 3134.23 / 0.64 / 4.47 / 0.0 / 3134.87 / 6.40 / 0.42 / 0.004 *XS*

D AT 1875 / 705 / 3070. / 529. / 42096. / 1.13 / 342. / 432.
 3138.45 / 0.59 / 4.17 / 0.0 / 3139.04 / 5.81 / 0.39 / 0.001 *XS*

E-TW AT 2530 / 655 / 3070. / 417. / 46763. / 1.00 / 579. / 640.
 3141.45 / 0.84 / 3.14 / 0.13 / 3142.29 / 7.36 / 0.50 / -0.011 *XS*

=====
 BRIDGE ANALYSIS
 BR-OP AT 2530 / / 2815. / 385. / 21828. / 1.00 / 0. / 85.
 3139.20 / 0.83 / ...3... (0.064) / 7.30 / 0.60 / *B0*

EMBANKMENT OVERFLOW (CFS) / LEFT 197. / RIGHT 37. / *RG*

F APP AT 2674 / 144 / 3070. / 842. / 81402. / 1.04 / 558. / 700.
 3142.45 / 0.21 / 0.36 / 0.0 / 3142.67 / 3.64 / 0.27 / 0.015 *AS*

M = **** / E = **** / K* = **** / 855. / 83305. / 1.04 / 558. / 700.
 3142.54 / 0.21 / / 3142.75 / 3.59 / 0.26 / *AS*

=====
 END BRIDGE ANALYSIS
 G AT 3495 / 821 / 2880. / 346. / 29701. / 1.44 / 100. / 236.
 3147.24 / 1.55 / ***** / ***** / 3148.79 / 8.33 / 0.71 / ***** *XS*

H AT 4210 / 715 / 2880. / 393. / 36722. / 1.06 / 59. / 136.
 3153.34 / 0.89 / 5.44 / 0.0 / 3154.23 / 7.33 / 0.53 / 0.003 *XS*

J-TW AT 4337 / 127 / 2880. / 366. / 28315. / 1.09 / 107. / 195.
 3154.27 / 1.05 / 1.01 / 0.08 / 3155.32 / 7.88 / 0.62 / -0.000 *XS*

=====
 BRIDGE ANALYSIS
 BR-OP AT 4337 / / 2227. / 213. / 12316. / 1.00 / 0. / 34.
 3153.50 / 1.70 / ...3... (-.001) / 10.44 / 0.73 / *B0*

EMBANKMENT OVERFLOW (CFS) / LEFT 371. / RIGHT 258. / *RG*

K-APP AT 4424 / 87 / 2880. / 514. / 56317. / 1.04 / 516. / 616.
 3155.27 / 0.51 / 0.45 / 0.0 / 3155.78 / 5.60 / 0.47 / 0.006 *AS*

M = **** / E = **** / K* = **** / 647. / 81081. / 1.04 / 516. / 616.
 3156.60 / 0.32 / / 3156.92 / 4.45 / 0.34 / *AS*

=====
 END BRIDGE ANALYSIS
 K+2.7 AT 4686 / 262 / 2880. / 427. / 41547. / 1.04 / 514. / 614.
 3157.03 / 0.74 / 0.65 / 0.21 / 3157.77 / 6.75 / 0.62 / -0.000 *XS*

WATER-SURFACE PROFILE FOR: HOWARD CREEK FLOODWAY 1ST TRY
PAGE 2 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
*** FLOODWAY ANALYSIS *** LAST TRY I HOPE

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
L-2.7	AT	4938	252	2880.	702.	39551.	1.38	295.	595.	3158.68	0.36	1.27	0.0	3159.05	4.10	0.48	0.002	*XS*
L-1	AT	5200	262	2880.	500.	24430.	1.58	295.	595.	3160.71	0.81	2.25	0.23	3161.52	5.76	0.76	0.002	*XS*
L-11	AT	6315	1115	2880.	532.	43301.	1.08	408.	558.	3169.79	0.49	8.74	0.0	3170.28	5.41	0.45	0.013	*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: HOWARD CREEK FLOODWAY
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS 1ST TRY

SECID G H
WSC 3147.24 3168.72

SUMMARY OF ENCROACHMENTS FOR: HOWARD CREEK FLOODWAY 1ST TRY
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED LAST TRY I HOPE (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
A	100	1	HOR	YES	YES	*****	0.0	*****	84
B	200	0	HOR	YES	YES	*****	-0.00	*****	81
C	300	0	HOR	YES	YES	*****	0.41	*****	90
D	400	0	HOR	YES	YES	*****	0.93	*****	90
E-TW	500	0	HOR	YES	YES	*****	0.39	*****	61
BR.OP	600	2	N.A.	N.A.	N.A.	*****	-1.86	*****	85
PIERS	700	3	N.A.	N.A.	N.A.	*****	*****	*****	*****
ROAD	800	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
F APP	900	5	VHD	CONS	YES	1.00	0.19	*****	142
G	1000	1	HOR	YES	YES	*****	-0.03	*****	136
H	1100	0	HOR	YES	YES	*****	0.95	*****	77
J-TW	1200	0	HOR	YES	YES	*****	0.23	*****	88
BR-OP	1300	2	N.A.	N.A.	N.A.	*****	-0.54	*****	34
ROAD	1400	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
K-APP	1500	5	HOR	YES	YES	*****	-0.15	*****	100
K+2.7	1530	0	HOR	YES	YES	*****	0.10	*****	100
L-2.7	1560	0	HOR	YES	YES	*****	0.58	*****	300
L	1600	0	HOR	YES	YES	*****	0.78	*****	300
M	1700	0	HOR	YES	YES	*****	0.28	*****	150

HASP-II*A*RM89.PRI.....END JOB 1433.....8.35.47 AM 3 MAR 78.....BOX 0BU.....AG40BULM.....JACKSONRM89.PRI*A*HASP-II
HASP-II*A*RM89.PRI.....END JOB 1433.....8.35.47 AM 3 MAR 78.....BOX 0BU.....AG40BULM.....JACKSONRM89.PRI*A*HASP-II
HASP-II*A*RM89.PRI.....END JOB 1433.....8.35.47 AM 3 MAR 78.....BOX 0BU.....AG40BULM.....JACKSONRM89.PRI*A*HASP-II
HASP-II*A*RM89.PRI.....END JOB 1433.....8.35.47 AM 3 MAR 78.....BOX 0BU.....AG40BULM.....JACKSONRM89.PRI*A*HASP-II
HASP-II*A*RM89.PRI.....END JOB 1433.....8.35.47 AM 3 MAR 78.....BOX 0BU.....AG40BULM.....JACKSONRM89.PRI*A*HASP-II

*** INPUT CARD ~~PRINTOUT~~ ***

	1	2	3	4	5	6	7	8
5	1610	593	3 31587	605	3 31696			
6	1615	1 2 040 040	1 2 050 050	1 2 075 075				
3	1700	0 22	3 3164	6315	99 99			
5	1705	0 1 31773	43 1 31738	93 1 31715	143 1 31699	193 1 31687		
5	1706	243 1 31682	293 1 31679	343 1 31692	393 1 31670	443 1 31669		
5	1707	500 1 31672	508 2 31663	512 2 31638	526 2 31629	533 2 31628		
5	1708	542 2 31639	549 3 31683	558 3 31691	593 3 31697	628 3 31693		
5	1709	637 3 31745	643 3 31773					
6	1715	1 2 045 040	1 2 050 050	1 2 080 080				

PAGE 1 OF EDITING NOTES FOR: HOWARDS CREEK ALL FLOODS.

2ND TRY

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BR.OP	WARNING	STATION	20	IS LESS THAN	STATION	19	
BR-OP	WARNING	STATION	8	IS LESS THAN	STATION	7	

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 5 DATE= 2/ 1/78

INPUT SUMMARY FOR: HOWARDS CREEK ALL FLOODS 2ND TRY

23 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 23 TYPE 3 CARDS

KEPT 23 CROSS SECTIONS FOR EDITING

23 " " VALID FOR PROPERTY COMPUTATIONS

23 " " " " " PROFILE "

PAGE 1 OF PROFILE NOTES FOR: HOWARDS CREEK ALL FLOODS 2ND TRY
 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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

C	; KU/KD < 0.7 OR > 1.4		
F APP	; WSU > BELMX (1)		ALERTED USER
F APP	; MIN QBO > QT (2)		CHECKED QBO (2)
F+1.5	; KU/KD < 0.7 OR > 1.4		ASSUMED QBO (1)
G-1.5	; FRDN FAILURE		ALERTED USER
		WS = 3142.12 & FR = 1.09	
G-1.5	; WS NOT FOUND BETWEEN		USED HIGHER WS
		WS = 3140.26 & WS = 3151.20	
G-1.5	; FRDN FAILURE		USED DEL = 0.25
		WS = 3142.12 & FR = 1.09	
G-1.5	; WS NOT FOUND BETWEEN		USED HIGHER WS
		WS = 3140.26 & WS = 3151.20	
G-1.5	; WS NOT FOUND		USED WSMIN = WSC
G	; KU/KD < 0.7 OR > 1.4		ASSUMED WS = WSC
G+2.3	; KU/KD < 0.7 OR > 1.4		ALERTED USER
H-2.3	; KU/KD < 0.7 OR > 1.4		ALERTED USER
H	; KU/KD < 0.7 OR > 1.4		ALERTED USER
K-APP	; KU/KD < 0.7 OR > 1.4		ALERTED USER
K-APP	; WSU > BELMX (1)		ALERTED USER
K+2.7	; KU/KD < 0.7 OR > 1.4		CHECKED QBO (2)
L-2.7	; KU/KD < 0.7 OR > 1.4		ALERTED USER
L	; KU/KD < 0.7 OR > 1.4		ALERTED USER
M	; WS TOO LOW		ALERTED USER
M	; KU/KD < 0.7 OR > 1.4		USED WSMIN = WSC
			ALERTED USER

WATER-SURFACE PROFILE FOR: HOWARDS CREEK ALL FLOODS 2ND TRY
 PAGE 1 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
		HV	HF	HE	EG	V	FN	ACC	ID
A	AT	0 / 3120.94	0 / 0.71	1520. /	233. / 3121.65	16780. / 6.52	1.08 / 0.55	14. /	76. / *IS*
B	AT	640 / 3127.05	640 / 1.05	1520. / 6.28	213. / 3128.10	14021. / 7.15	1.32 / 0.69	44. / -0.005	119. / *XS*
C	AT	1170 / 3132.01	530 / 0.26	1520. / 4.16	379. / 3132.26	21011. / 4.01	1.03 / 0.36	92. / 0.008	238. / *XS*
D	AT	1875 / 3135.97	705 / 0.39	1520. / 4.02	341. / 3136.36	19262. / 4.46	1.25 / 0.40	298. / 0.003	429. / *XS*
E-TW	AT	2930 / 3139.00	655 / 0.48	1520. / 3.07	274. / 3139.47	25579. / 5.54	1.00 / 0.43	582. / 0.001	636. / *XS*
===== BEGIN BRIDGE ANALYSIS =====									
BR.OP	AT	2530 / 3139.00	/ / 0.23	1520. /	395. / 31916. (0.065)	31916. / 3.85	1.00 / 0.31	0. /	85. / *BO*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG* =====									
F APP	AT	2674 / 3139.70	144 / 0.16	1520. / 0.39	543. / 3139.86	33673. / 2.80	1.30 / 0.30	563. / -0.000	775. / *AS*
M = 0.22 / E = 0.0 / K* = 0.68 / 580. / 36809. / 1.29 / 563. / 777. / 3139.88 / 0.14 / / 3140.02 / 2.62 / 0.27 / *AS*									
===== END BRIDGE ANALYSIS =====									
F+1.5	AT	2948 / 3140.51	274 / 0.25	1520. / 0.69	425. / 3140.76	25025. / 3.57	1.25 / 0.38	563. / 0.001	773. / *XS*
G-1.5	AT	3221 / 3142.36	273 / 2.06	1520. /	132. / 3144.42	10499. / 11.50	1.00 /	167. /	199. / *XS*
G OK	AT	3495 / 3146.33	274 / 0.54	1420. / 2.45	309. / 3146.86	23023. / 4.59	1.64 / 0.44	25. / -0.001	471. / *XS*
G+2.3	AT	3725 / 3147.39	230 / 1.05	1420. / 1.31	173. / 3148.43	15359. / 8.20	1.00 / 0.65	165. / 0.001	200. / *XS*
H-2.3	AT	3975 / 3149.46	250 / 0.44	1420. / 1.47	274. / 3149.90	22396. / 5.19	1.05 / 0.42	59. / 0.001	128. / *XS*
H	AT	4210 / 3150.71	235 / 0.72	1420. / 1.38	209. / 3151.43	15337. / 6.79	1.00 / 0.59	60. / 0.011	114. / *XS*
J-TW	AT	4337 / 3152.00	127 / 0.74	1420. / 1.29	205. / 3152.74	12904. / 6.88	1.00 / 0.63	138. / 0.005	193. / *XS*

USE CRITICAL
 OF

WATER-SURFACE PROFILE FOR: HOWARDS CREEK ALL FLOODS 2ND TRY
 PAGE 2 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 4337 / / 1399. / 213. / 12316. / 1.00 / 0. / 34.
3153.50 / 0.67 / ...2... (-.001) / 6.56 / 0.46 / *B0*
=====
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG*
=====
K-APP AT 4424 / 87 / 1420. / 346. / 24166. / 1.22 / 448. / 613.
3152.98 / 0.32 / 0.56 / 0.0 / 3153.30 / 4.11 / 0.40 / -0.001 *AS*
=====
M = **** / E = **** / K* = **** / 594. / 50029. / 1.12 / 412. / 615.
3154.33 / 0.10 / / 3154.43 / 2.39 / 0.24 / *AS*
===== END BRIDGE ANALYSIS =====
K+2.7 AT 4686 / 262 / 1420. / 207. / 12996. / 1.27 / 486. / 611.
3154.73 / 0.93 / 0.81 / 0.41 / 3155.65 / 6.85 / 0.71 / -0.002 *XS*
=====
L-2.7 AT 4938 / 252 / 1420. / 514. / 22131. / 1.42 / 99. / 594.
3157.26 / 0.17 / 1.77 / 0.0 / 3157.43 / 2.76 / 0.40 / 0.006 *XS*
=====
L AT 5200 / 262 / 1420. / 252. / 10706. / 1.38 / 152. / 594.
3159.24 / 0.68 / 2.23 / 0.26 / 3159.92 / 5.63 / 0.80 / 0.009 *XS*
=====
M AT 6315 / 1115 / 1420. / 445. / 23601. / 1.64 / 206. / 552.
3168.57 / 0.26 / 8.90 / 0.0 / 3168.83 / 3.19 / 0.40 / 0.014 *XS*
=====
    
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 26 DATE= 2/ 1/78

COMPUTED WSC VALUES FOR HOWARDS CREEK ALL FLOODS
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

2ND TRY

SECID G-1.5 M
WSC 3142.36 3167.75

PAGE 1 OF PROFILE NOTES FOR: HOWARDS CREEK ALL FLOODS 2ND TRY
 PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

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

C	; KU/KD < 0.7 OR > 1.4		
			ALERTED USER
F APP	; KU/KD < 0.7 OR > 1.4		
			ALERTED USER
F+1.5	; KU/KD < 0.7 OR > 1.4		
			ALERTED USER
G-1.5	; FRDN FAILURE		
		; WS = 3142.69 & FR = 1.54;	
			USED HIGHER WS
G-1.5	; WS NOT FOUND BETWEEN		
		; WS = 3141.72 & WS = 3151.20;	
			USED DEL = 0.25
G-1.5	; FRDN FAILURE		
		; WS = 3142.69 & FR = 1.54;	
			USED HIGHER WS
G-1.5	; WS NOT FOUND BETWEEN		
		; WS = 3141.72 & WS = 3151.20;	
			USED WSMIN = WSC
G-1.5	; WS NOT FOUND		
			ASSUMED WS = WSC
G+2.3	; KU/KD < 0.7 OR > 1.4		
			ALERTED USER
H-2.3	; KU/KD < 0.7 OR > 1.4		
			ALERTED USER
H	; KU/KD < 0.7 OR > 1.4		
			ALERTED USER
K-APP	; KU/KD < 0.7 OR > 1.4		
			ALERTED USER
K+2.7	; KU/KD < 0.7 OR > 1.4		
			ALERTED USER
L	; KU/KD < 0.7 OR > 1.4		
			ALERTED USER
M	; WS TOO LOW		
			USED WSMIN = WSC
M	; KU/KD < 0.7 OR > 1.4		
			ALERTED USER

WATER-SURFACE PROFILE FOR: HOWARDS CREEK ALL FLOODS 2ND TRY
 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	0	0	2600.	349.	28689.	1.17	11.	90.	
3122.58	1.01			3123.59	7.45	0.58			*IS*	
B	AT	640	640	2600.	331.	24745.	1.23	41.	121.	
3128.59	1.19	6.09	0.09	3129.77	7.86	0.69	0.000		*XS*	
C	AT	1170	530	2600.	593.	37575.	1.02	33.	240.	
3133.32	0.31	3.85	0.0	3133.63	4.38	0.47	0.000		*XS*	
D	AT	1875	705	2600.	500.	32724.	1.14	286.	431.	
3137.11	0.48	3.88	0.09	3137.60	5.20	0.41	0.003		*XS*	
E-TW	AT	2530	655	2600.	361.	37858.	1.00	580.	639.	
3140.53	0.81	3.57	0.16	3141.33	7.20	0.51	0.001		*XS*	
===== BEGIN BRIDGE ANALYSIS =====										
RR.OP	AT	2530		2634.	385.	21828.	1.00	0.	85.	
3139.20	0.73	3139.20	6.83	0.57			*RO*	
===== END BRIDGE ANALYSIS =====										
EMBANKMENT OVERFLOW (GFS) / LEFT 0. / RIGHT 0. / *RG*										
F APP	AT	2674	144	2600.	969.	74416.	1.19	560.	833.	
3141.53	0.13	0.35	0.0	3141.66	2.68	0.24	-0.019		*AS*	
M = ****	E = ****	K = ****		969.	74416.	1.19	560.	833.		
3141.53	0.13			3141.66	2.68	0.24			*AS*	
===== END BRIDGE ANALYSIS =====										
F+1.5	AT	2948	274	2600.	726.	49870.	1.27	561.	789.	
3141.97	0.25	0.50	0.06	3142.22	3.58	0.35	0.000		*XS*	
G-1.5	AT	3221	273	2600.	604.	36734.	2.29	22.	518.	
3145.66	0.66	*****	*****	3146.32	4.30	0.52	*****		*XS*	
USE WSA	G	AT	3495	274	2440.	551.	33925.	2.27	23.	510.
3147.75	3147.04	0.69	1.40	0.02	3147.73	4.43	0.53	-0.000	*XS*	
✓ Critical = 3149.20	G+2.3	AT	3725	230	2440.	248.	20524.	1.32	37.	469.
Less than Critical	3148.35	1.99	1.97	0.65	3150.35	9.85	0.85	0.000	*XS*	
Assumed Critical	H-2.3	AT	3975	250	2440.	442.	42522.	1.08	52.	144.
and Revis	3151.54	0.51	1.71	0.0	3152.05	5.52	0.39	0.000	*XS*	
see pg. 100	H	AT	4210	235	2440.	328.	28382.	1.07	59.	137.
	3152.49	0.93	1.16	0.21	3153.42	7.44	0.57	0.000	*XS*	
Do Not Use	J-TW	AT	4337	127	2440.	310.	22899.	1.04	116.	195.
	3153.62	1.00	1.16	0.04	3154.62	7.87	0.64	0.001	*XS*	

WATER-SURFACE PROFILE FOR: HOWARDS CREEK ALL FLOODS 2ND TRY
 PAGE 2 OF 2, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 4337 / / 2222. / 213. / 12316. / 1.00 / 0. / 34.
3153.50 / 1.69 / ...3... (-.001) / 10.42 / 0.73 / *R0*
-----
EMBRANKMENT OVERFLOW (CFS) / LEFT 107. / RIGHT 64. / *RG*
-----
K-APP AT 4424 / 87 / 2440. / 688. / 61210. / 1.10 / 400. / 615.
3154.78 / 0.22 / 0.37 / 0.0 / 3155.00 / 3.55 / 0.35 / 0.009 *AS*
-----
M = **** / E = **** / K* = **** / 1123. / 101582. / 1.18 / 264. / 634.
3156.17 / 0.09 / / 3156.25 / 2.17 / 0.21 / *AS*
===== END BRIDGE ANALYSIS =====
K+2.7 AT 4686 / 262 / 2440. / 470. / 36401. / 1.16 / 429. / 614.
3156.39 / 0.48 / 0.42 / 0.20 / 3156.88 / 5.19 / 0.56 / -0.001 *XS*
-----
L-2.7 AT 4938 / 252 / 2440. / 788. / 36728. / 1.35 / 53. / 595.
3157.80 / 0.20 / 1.12 / 0.0 / 3158.00 / 3.10 / 0.45 / 0.005 *XS*
-----
L AT 5200 / 262 / 2440. / 446. / 18873. / 1.44 / 112. / 594.
3159.80 / 0.67 / 2.25 / 0.23 / 3160.47 / 5.47 / 0.80 / -0.017 *XS*
-----
M AT 6315 / 1115 / 2440. / 684. / 38770. / 1.48 / 170. / 567.
3169.25 / 0.29 / 9.07 / 0.0 / 3169.54 / 3.57 / 0.40 / -0.001 *XS*
=====
    
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 30,DATE= 2/ 1/78.

COMPUTED WSC VALUES FOR: HOWARDS CREEK ALL FLOODS
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

2ND TRY

SECID G-1.5 M
WSC 3145.66 3168.61

PAGE 1 OF PROFILE NOTES FOR: HOWARDS CREEK ALL FLOODS 2ND TRY
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	ERROR (WARNING) MESSAGE	INTERMEDIATE RESULTS (IF ANY)	ACTION TAKEN
C	KU/KD < 0.7 OR > 1.4		
F-APP	KU/KD < 0.7 OR > 1.4		ALERTED USER
F+1.5	KU/KD < 0.7 OR > 1.4		ALERTED USER
G-1.5	WS NOT FOUND BETWEEN		ALERTED USER
		WS = 3142.43 & WS = 3151.20	
G-1.5	WS NOT FOUND BETWEEN		USED DEL = 0.25
		WS = 3142.43 & WS = 3151.20	
G-1.5	WS NOT FOUND		USED WSMIN = WSC
G+2.3	KU/KD < 0.7 OR > 1.4		ASSUMED WS = WSC
H-2.3	KU/KD < 0.7 OR > 1.4		ALERTED USER
H	KU/KD < 0.7 OR > 1.4		ALERTED USER
K-APP	KU/KD < 0.7 OR > 1.4		ALERTED USER
K+2.7	KU/KD < 0.7 OR > 1.4		ALERTED USER
L	KU/KD < 0.7 OR > 1.4		ALERTED USER
M	WS TOO LOW		ALERTED USER
M	KU/KD < 0.7 OR > 1.4		USED WSMIN = WSC
			ALERTED USER

WATER-SURFACE PROFILE FOR: HOWARDS CREEK ALL FLOODS 2ND TRY
 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	0	0	3070.	397.	33879.	1.21	10.	95.
3123.17	1.12			3124.29	7.73	0.59			*IS*
B	AT	640	640	3070.	376.	29464.	1.20	40.	121.
3129.15	1.25	6.04	0.06	3130.40	8.16	0.69	0.001		*XS*
C	AT	1170	530	3070.	698.	45390.	1.03	20.	240.
3133.83	0.31	3.74	0.0	3134.14	4.40	0.46	0.003		*XS*
D	AT	1875	705	3070.	560.	38573.	1.12	281.	432.
3137.52	0.52	3.80	0.11	3138.04	5.48	0.42	0.004		*XS*
E-TW	AT	2530	655	3070.	393.	42684.	1.00	579.	640.
3141.06	0.95	3.75	0.21	3142.01	7.81	0.54	0.000		*XS*
===== BEGIN BRIDGE ANALYSIS =====									
BR.OP	AT	2530		2934.	385.	21828.	1.00	0.	85.
3139.20	0.90	...	3...	(0.054)	7.61	0.63			*B0*
===== END BRIDGE ANALYSIS =====									
EMBANKMENT OVERFLOW (CFS) / LEFT 80. / RIGHT 7. / *RG*									
F APP	AT	2674	144	3070.	1168.	96807.	1.16	558.	863.
3142.21	0.12	0.33	0.0	3142.34	2.63	0.22	-0.000		*AS*
M	= ****	E = ***	K = ***	1211.	101948.	1.16	557.	867.	
3142.35	0.12			3142.47	2.54	0.21			*AS*
F+1.5	AT	2948	274	3070.	894.	66571.	1.22	560.	811.
3142.68	0.22	0.38	0.05	3142.90	3.43	0.31	-0.000		*XS*
G-1.5	AT	3221	273	3070.	699.	42112.	2.26	21.	533.
3145.86	0.68	*****	*****	3146.54	4.39	0.54	*****		*XS*
G	AT	3495	274	2880.	681.	41020.	2.27	22.	530.
3147.32	0.63	1.40	0.0	3147.96	4.23	0.52	0.011		*XS*
G+2.3	AT	3725	230	2880.	288.	22162.	1.54	26.	470.
3148.54	2.39	2.10	0.88	3150.93	9.99	0.93	-0.000		*XS*
H-2.3	AT	3975	250	2880.	508.	51301.	1.09	42.	147.
3152.21	0.54	1.82	0.0	3152.76	5.66	0.39	0.000		*XS*
H	AT	4210	235	2880.	378.	34276.	1.08	58.	142.
3153.11	0.97	1.11	0.22	3154.08	7.62	0.57	0.000		*XS*
J-TW	AT	4337	127	2880.	357.	27348.	1.08	105.	195.
3154.17	1.10	1.12	0.06	3155.27	8.07	0.64	0.000		*XS*

USE CRITICAL

USE WSA
= 3148.13

Left Side Critical
Assumed Critical
and from
CRITICAL = 3148.57

Do Not Use

WATER-SURFACE PROFILE FOR: HOWARDS CREEK ALL FLOODS 2ND TRY
 PAGE 2 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 4337 / / 2255. / 213. / 12316. / 1.00 / 0. / 34.
3153.50 / 1.74 / ...3... (-.001) / 10.57 / 0.74 / *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 375. / RIGHT 262. / *RG*
-----
K-APP AT 4424 / 87 / 2980. / 869. / 74233. / 1.20 / 311. / 620.
3155.42 / 0.20 / 0.36 / 0.0 / 3155.63 / 3.31 / 0.33 / 0.002 *AS*
-----
M = **** / E = **** / K* = **** / 1375. / 129760. / 1.18 / 221. / 646.
3156.80 / 0.08 / / 3156.88 / 2.09 / 0.20 / *AS*
===== END BRIDGE ANALYSIS =====
K+2.7 AT 4686 / 262 / 2880. / 582. / 48699. / 1.12 / 414. / 615.
3156.97 / 0.43 / 0.34 / 0.17 / 3157.40 / 4.95 / 0.51 / -0.000 *XS*
-----
L-2.7 AT 4938 / 252 / 2880. / 954. / 48730. / 1.26 / 48. / 595.
3158.11 / 0.18 / 0.88 / 0.0 / 3158.29 / 3.02 / 0.42 / 0.004 *XS*
-----
L AT 5200 / 262 / 2880. / 499. / 21394. / 1.42 / 103. / 594.
3159.92 / 0.74 / 2.08 / 0.28 / 3160.66 / 5.78 / 0.84 / 0.012 *XS*
-----
M AT 6315 / 1115 / 2880. / 793. / 47335. / 1.39 / 159. / 628.
3169.51 / 0.28 / 9.13 / 0.0 / 3169.80 / 3.63 / 0.41 / 0.002 *XS*
=====
    
```

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: HOWARDS CREEK ALL FLOODS
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

2ND TRY

SECID G-1.5 M
WSC 3145.86 3168.89

PAGE 1 OF PROFILE NOTES FOR: HOWARDS CREEK ALL FLOODS 2ND TRY
 PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

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

C ; KU/KD < 0.7 OR > 1.4		ALERTED USER
F APP; KU/KD < 0.7 OR > 1.4		ALERTED USER
F APP; MIN QTC > QT (3)		ASSUMED WSU = HIN
F+1.5; KU/KD < 0.7 OR > 1.4		ALERTED USER
G-1.5; WS NOT FOUND BETWEEN	WS = 3143.98 & WS = 3151.20	USED DEL = 0.25
G-1.5; WS NOT FOUND BETWEEN	WS = 3143.98 & WS = 3151.20	USED WSMIN = WSC
G-1.5; WS NOT FOUND		ASSUMED WS = WSC
G+2.3; FRDN FAILURE	WS = 3148.14 & FR = 1.64	USED HIGHER WS
G+2.3; FRDN FAILURE	WS = 3148.41 & FR = 1.50	USED HIGHER WS
G+2.3; FRDN FAILURE	WS = 3148.49 & FR = 1.46	USED HIGHER WS
G+2.3; FRDN FAILURE	WS = 3148.51 & FR = 1.45	USED HIGHER WS
G+2.3; FRDN FAILURE	WS = 3149.03 & FR = 1.13	USED HIGHER WS
G+2.3; FRDN FAILURE	WS = 3149.06 & FR = 1.12	USED HIGHER WS
G+2.3; WS NOT FOUND BETWEEN	WS = 3147.87 & WS = 3155.00	USED DEL = 0.25
G+2.3; FRDN FAILURE	WS = 3148.14 & FR = 1.64	USED HIGHER WS
G+2.3; FRDN FAILURE	WS = 3148.29 & FR = 1.57	USED HIGHER WS
G+2.3; FRDN FAILURE	WS = 3148.43 & FR = 1.49	USED HIGHER WS
G+2.3; FRDN FAILURE	WS = 3148.58 & FR = 1.40	USED HIGHER WS
G+2.3; FRDN FAILURE	WS = 3149.10 & FR = 1.09	USED HIGHER WS
G+2.3; WS NOT FOUND BETWEEN	WS = 3147.87 & WS = 3155.00	USED WSMIN = WSC

G+2.3: WS NOT FOUND

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

K-APP: MAX QBO < QT (3)

K+2.7: KU/KD < 0.7 OR > 1.4

L : KU/KD < 0.7 OR > 1.4

M : WS TOO LOW

M : KU/KD < 0.7 OR > 1.4

ASSUMED WS = WSC

ALERTED USER

CHECKED QRD

ALERTED USER

ALERTED USER

USED WSMIN = WSG

ALERTED USER

WATER-SURFACE PROFILE FOR: HOWARDS CREEK ALL FLOODS 2ND TRY
 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	0	0	4630.	547.	51148	1.27	8.	105.
3124.80	1.41			3126.21	8.46	0.61			*IS*
B	AT	640	640	4630.	509.	45072.	1.15	36.	127.
3130.72	1.48	5.95	0.04	3132.20	9.10	0.70		0.003	*XS*
C	AT	1170	530	4630.	984.	77771.	1.00	15.	243.
3135.10	0.34	3.24	0.0	3135.45	4.71	0.43		0.004	*XS*
D	AT	1875	705	4630.	710.	54587.	1.10	271.	434.
3138.48	0.72	3.56	0.19	3139.20	6.52	0.67		0.003	*XS*
E-TW	AT	2530	655	4630.	559.	59733.	1.24	473.	706.
3142.48	1.32	4.31	0.30	3143.80	8.28	0.60		-0.008	*XS*
===== BEGIN BRIDGE ANALYSIS =====									
BR.OP	AT	2530		3152.	385.	21828.	1.00	0.	85.
3139.20	1.04		0.064		8.18	0.68			*BO*
EMBAKMENT OVERFLOW (CFS) / LEFT 1392. / RIGHT 738. / *RG*									
F APP	AT	2674	144	4630.	1794.	171218.	1.19	520.	948.
3143.98	0.12	0.30	0.0	3144.10	2.58	0.20		-0.000	*AS*
M = **** / E = **** / K* = **** / 1794. / 171218. / 1.19 / 520. / 948. / 3143.98 / 0.12 / 3144.10 / 2.58 / 0.20 / *AS*									
===== END BRIDGE ANALYSIS =====									
F+1.5	AT	2948	274	4630.	1348.	118957.	1.16	554.	879.
3144.23	0.21	0.29	0.04	3144.44	3.44	0.28		0.006	*XS*
G-1.5	AT	3221	273	4630.	924.	55658.	2.15	20.	583.
3146.30	0.84	*****	*****	3147.14	5.01	0.62		*****	*XS*
G	AT	3495	274	4370.	1137.	67509.	2.14	18.	707.
3148.12	0.49	1.48	0.0	3148.61	3.84	0.49		-0.004	*XS*
G+2.3	AT	3725	230	4370.	924.	55656.	2.15	20.	583.
3150.10	0.75	*****	*****	3150.85	4.73	0.58		*****	*XS*
H-2.3	AT	3975	250	4370.	452.	43826.	1.08	50.	145.
3151.65	1.57	1.96	0.41	3153.22	9.67	0.68		0.000	*XS*
H	AT	4210	235	4370.	456.	44389.	1.08	50.	145.
3153.99	1.54	2.31	0.0	3155.54	9.58	0.68		0.010	*XS*
J-TW	AT	4337	127	4370.	558.	43070.	1.32	71.	252.
3155.54	1.26	1.27	0.0	3156.80	7.84	0.64		-0.001	*XS*

USE CRITICAL

USE WSD 2148.12

USE CRITICAL

WATER-SURFACE PROFILE FOR: HOWARDS CREEK ALL FLOODS 2ND TRY
 PAGE 2 OF 2, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

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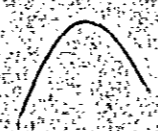
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
===== BEGIN BRIDGE ANALYSIS =====
BR-OP AT 4337 / / 2117. / 213. / 12316. / 1.00 / 0. / 34.
3153.50 / 1.53 / ...3... (-.001) / 9.93 / 0.70 / *80*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 1232. / RIGHT 958. / *R6*
-----
K-APP AT 4424 / 87 / 4370. / 1424. / 135203. / 1.18 / 50. / 648.
3156.92 / 0.17 / 0.29 / 0.0 / 3157.09 / 3.07 / 0.29 / 0.000 *AS*
-----
M = **** / E = **** / K* = **** / 1875. / 183438. / 1.19 / 35. / 669.
3157.83 / 0.10 / / 3157.93 / 2.33 / 0.22 / *AS*
===== END BRIDGE ANALYSIS =====
K+2.7 AT 4686 / 262 / 4370. / 834. / 71233. / 1.19 / 325. / 618.
3158.01 / 0.51 / 0.38 / 0.20 / 3158.52 / 5.24 / 0.53 / -0.001 *XS*
-----
L-2.7 AT 4938 / 252 / 4370. / 1478. / 96749. / 1.15 / 46. / 596.
3159.06 / 0.16 / 0.70 / 0.0 / 3159.22 / 2.96 / 0.34 / 0.001 *XS*
-----
L AT 5200 / 262 / 4370. / 710. / 31717. / 1.41 / 59. / 595.
3160.36 / 0.83 / 1.63 / 0.34 / 3161.18 / 6.15 / 0.92 / 0.000 *XS*
-----
M AT 6315 / 1115 / 4370. / 1087. / 72527. / 1.27 / 136. / 629.
3170.13 / 0.32 / 9.26 / 0.0 / 3170.44 / 4.02 / 0.45 / 0.003 *XS*
=====
    
```

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: HOWARDS CREEK ALL FLOODS
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS.

2ND TRY

SECID	G-1.5	G+2.3	M
WSC	3146.30	3150.10	3169.44



PAGE 1 OF PROFILE NOTES FOR: HOWARD CREEK FINAL ALL FLOODS FINAL
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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

C	: KU/KD < 0.7 OR > 1.4	: ALERTED USER
F APP:	WSU > BELMX (1)	: CHECKED QBO (2)
F APP:	MIN QBO > QT (2)	: ASSUMED QBO (1)
G	: KU/KD < 0.7 OR > 1.4	: ALERTED USER
H	: WS TOO LOW	: USED WSMIN = WSC
H	: KU/KD < 0.7 OR > 1.4	: ALERTED USER
J-TW	: KU/KD < 0.7 OR > 1.4	: ALERTED USER
K-APP:	KU/KD < 0.7 OR > 1.4	: ALERTED USER
K-APP:	WSU > BELMX (1)	: CHECKED QBO (2)
K+2.7:	KU/KD < 0.7 OR > 1.4	: ALERTED USER
L-2.7:	KU/KD < 0.7 OR > 1.4	: ALERTED USER
L	: KU/KD < 0.7 OR > 1.4	: ALERTED USER
M	: WS TOO LOW	: USED WSMIN = WSC
M	: KU/KD < 0.7 OR > 1.4	: ALERTED USER

WATER-SURFACE PROFILE FOR: HOWARD CREEK FINAL ALL FLOODS FINAL
 PAGE 1 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

OK

10 YEAR

SECID	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	REW	ID
A	AT	0 / 3120.94	0 / 0.71	1520. /	233. /	16780. /	1.08 /	14. /	76. /		*IS*
B	AT	640 / 3127.05	640 / 1.05	1520. /	213. /	14021. /	1.32 /	44. /	119. /		*XS*
C	AT	1170 / 3132.01	530 / 0.26	1520. /	379. /	21011. /	1.03 /	92. /	238. /		*XS*
D	AT	1875 / 3135.97	705 / 0.39	1520. /	341. /	19262. /	1.25 /	298. /	429. /		*XS*
E-TW	AT	2530 / 3139.00	655 / 0.48	1520. /	274. /	25579. /	1.00 /	582. /	636. /		*XS*
===== BEGIN BRIDGE ANALYSIS =====											
BR-OP	AT	2530 / 3139.00	/ /	1520. /	395. /	31916. /	1.00 /	0. /	85. /		*80*
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG*											
F-APP	AT	2674 / 3139.70	144 / 0.16	1520. /	543. /	33673. /	1.30 /	563. /	775. /		*AS*
M = 0.22 / E = 0.0 / K* = 0.68 / 580. / 36809. / 1.29 / 563. / 777. / 3139.88 / 0.14 / / 3140.02 / 2.62 / 0.27 / *AS*											
===== END BRIDGE ANALYSIS =====											
G	AT	3495 / 3143.76	821 / 1.88	1420. /	129. /	10150. /	1.00 /	167. /	199. /		*XS*
H	AT	4210 / 3151.69	715 / 0.45	1420. /	269. /	21879. /	1.04 /	59. /	127. /		*XS*
J-TW	AT	4337 / 3152.40	127 / 0.60	1420. /	229. /	14930. /	1.00 /	136. /	194. /		*XS*
===== BEGIN BRIDGE ANALYSIS =====											
BR-OP	AT	4337 / 3153.50	/ /	1399. /	213. /	12316. /	1.00 /	0. /	34. /		*R0*
EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG*											
K-APP	AT	4424 / 3153.15	87 / 0.27	1420. /	375. /	26852. /	1.20 /	443 /	613. /		*AS*
M = **** / E = **** / K* = **** / 594. / 50029. / 1.12 / 412. / 615. / 3154.33 / 0.10 / / 3154.43 / 2.39 / 0.24 / *AS*											
===== END BRIDGE ANALYSIS =====											
K+2.7	AT	4686 / 3154.73	262 / 0.93	1420. /	207. /	12996. /	1.27 /	486. /	611. /		*XS*

110

WATER-SURFACE PROFILE FOR: HOWARD CREEK FINAL ALL FLOODS FINAL
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*
L-2.7	AT	4938	252	1420.	514.	22131.	1.42	99.	594.	3157.26	0.17	1.77	0.0	3157.43	2.76	0.40	0.006	*XS*
L	AT	5200	262	1420.	252.	10706.	1.38	152.	594.	3159.24	0.68	2.23	0.26	3159.92	5.63	0.80	0.009	*XS*
M	AT	6315	1115	1420.	445.	23601.	1.64	206.	552.	3168.57	0.26	8.90	0.0	3168.83	3.19	0.40	0.014	*XS*

END OF THIS PROFILE

OK

WATER-SURFACE PROFILE FOR: HOWARD CREEK FINAL ALL FLOODS FINAL
 PAGE 1 OF 2, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

50 YEAR

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
A	AT	0	0	2600.	349.	28689.	1.17	11.	90.	3122.58	1.01								*IS*
B	AT	640	640	2600.	331.	24745.	1.23	41.	121.	3128.59	1.19	6.09	0.09	3129.77	7.86	0.69	0.000		*XS*
C	AT	1170	530	2600.	593.	37575.	1.02	33.	240.	3133.32	0.31	3.85	0.0	3133.63	4.38	0.47	0.000		*XS*
D	AT	1875	705	2600.	500.	32724.	1.14	286.	431.	3137.11	0.48	3.88	0.09	3137.60	5.20	0.41	0.003		*XS*
E-TW	AT	2530	655	2600.	361.	37858.	1.00	580.	639.	3140.53	0.81	3.57	0.16	3141.33	7.20	0.51	0.001		*XS*
===== BEGIN BRIDGE ANALYSIS =====																			
BR-OP	AT	2530		2634.	385.	21828.	1.00	0.	85.	3139.20	0.73	...	0.064		6.83	0.57			*B0*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *RG* =====																			
F APP	AT	2674	144	2600.	969.	74416.	1.19	560.	833.	3141.53	0.13	0.35	0.0	3141.66	2.68	0.24	-0.019		*AS*
M = **** / E = **** / K* = **** / 969. / 74416. / 1.19 / 560. / 833. / 3141.53 / 0.13 / / 3141.66 / 2.68 / 0.24 / *AS*																			
===== END BRIDGE ANALYSIS =====																			
G	AT	3495	821	2440.	492.	31189.	2.16	23.	500.	3146.90	0.83	*****	*****	3147.72	4.96	0.57	*****		*XS*
H	AT	4210	715	2440.	301.	25425.	1.06	59.	133.	3152.15	1.08	5.37	0.13	3153.23	8.10	0.63	0.009		*XS*
J-TW	AT	4337	127	2440.	303.	22231.	1.03	118.	195.	3153.53	1.04	1.34	0.0	3154.57	8.04	0.66	0.004		*XS*
===== BEGIN BRIDGE ANALYSIS =====																			
BR-OP	AT	4337		2266.	213.	12316.	1.00	0.	34.	3153.50	1.76	...	0.001		10.63	0.75			*B0*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 113. / RIGHT 68. / *RG* =====																			
K-APP	AT	4424	87	2440.	678.	60007.	1.11	402.	615.	3154.74	0.22	0.39	0.0	3154.96	3.60	0.36	-0.000		*AS*
M = **** / E = **** / K* = **** / 1130. / 102387. / 1.18 / 263. / 635. / 3156.19 / 0.09 / / 3156.27 / 2.16 / 0.21 / *AS*																			
===== END BRIDGE ANALYSIS =====																			
K+2.7	AT	4686	262	2440.	473.	36704.	1.16	429.	614.	3156.41	0.48	0.42	0.20	3156.88	5.16	0.55	-0.000		*XS*

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WATER-SURFACE PROFILE FOR: HOWARD CREEK FINAL ALL FLOODS FINAL
 PAGE 2 OF 2, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

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SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
L-2.7 AT 4938 / 252 / 2440. / 788. / 36737. / 1.35 / 53. / 595.
 3157.80 / 0.20 / 1.11 / 0.0 / 3158.00 / 3.09 / 0.45 / 0.005 *XS*
-----
L AT 5200 / 262 / 2440. / 446. / 18878. / 1.44 / 112. / 594.
 3159.80 / 0.67 / 2.25 / 0.23 / 3160.47 / 5.47 / 0.80 / -0.016 *XS*
-----
M AT 6315 / 1115 / 2440. / 684. / 38844. / 1.48 / 170. / 567.
 3169.25 / 0.29 / 9.05 / 0.0 / 3169.54 / 3.56 / 0.40 / 0.020 *XS*
=====
    
```

END OF THIS PROFILE.

PAGE 1 OF PROFILE NOTES FOR: HOWARD CREEK FINAL ALL FLOODS FINAL
 PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
C	KU/KD < 0.7 OR > 1.4		ALERTED USER
F APP	KU/KD < 0.7 OR > 1.4		ALERTED USER
G	FRDN FAILURE	WS = 3144.98 & FR = 1.36	USED HIGHER WS
G	WS NOT FOUND BETWEEN	WS = 3142.10 & WS = 3152.70	USED DEL = 0.25
G	FRDN FAILURE	WS = 3144.98 & FR = 1.36	USED HIGHER WS
G	WS NOT FOUND BETWEEN	WS = 3142.10 & WS = 3152.70	USED WSMIN = WSC
G	WS NOT FOUND		ASSUMED WS = WSC
H	KU/KD < 0.7 OR > 1.4		ALERTED USER
K-APP	KU/KD < 0.7 OR > 1.4		ALERTED USER
K+2.7	KU/KD < 0.7 OR > 1.4		ALERTED USER
L	KU/KD < 0.7 OR > 1.4		ALERTED USER
M	WS TOO LOW		USED WSMIN = WSC
M	KU/KD < 0.7 OR > 1.4		ALERTED USER

100 YR

WATER-SURFACE PROFILE FOR: HOWARD CREEK FINAL ALL FLOODS FINAL
 PAGE 1 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	LEW	REW	ALPHA	AREA	CONVEYANCE	DISCHARGE	LENTH	DISTANCE	REW	ID	
A	AT	3123.17	1.12	0	3070.	397.	33879.	1.21	10.	95.			3124.29	7.73	0.59				*IS*	
B	AT	3129.15	1.25	640	3070.	376.	29464.	1.20	40.	121.			3130.40	8.16	0.69				*XS*	
C	AT	3133.83	0.31	530	3070.	698.	45390.	1.03	20.	240.			3134.14	4.40	0.46				*XS*	
D	AT	3137.52	0.52	705	3070.	560.	38573.	1.12	281.	432.			3138.04	5.48	0.42				*XS*	
E-TW	AT	3141.06	0.95	655	3070.	393.	42684.	1.00	579.	640.			3142.01	7.81	0.54				*XS*	
===== BEGIN BRIDGE ANALYSIS =====																				
BR-OP	AT	3139.10	0.90		2934.	385.	21828.	1.00	0.	85.			3139.10	7.61	0.63				*BO*	
===== END BRIDGE ANALYSIS =====																				
EMBANKMENT OVERFLOW (CFS) / LEFT										80.		RIGHT		7.						*RG*
F APP	AT	3142.21	0.12	144	3070.	1168.	96807.	1.16	558.	863.			3142.34	2.63	0.22				*AS*	
M = ****	E = ****	K* = ****			1211.	101948.	1.16	557.	867.				3142.47	2.54	0.21				*AS*	
===== END BRIDGE ANALYSIS =====																				
G	AT	3147.27	0.68	821	2880.	658.	39707.	2.28	22.	527.			3147.95	4.38	0.53				*XS*	
H	AT	3152.39	1.35	715	2880.	319.	27438.	1.07	59.	136.			3153.74	9.02	0.70				*XS*	
J-TW	AT	3154.04	1.16	127	2880.	345.	26256.	1.07	107.	195.			3155.20	8.34	0.66				*XS*	
===== BEGIN BRIDGE ANALYSIS =====																				
BR-OP	AT	3153.50	1.79		2288.	213.	12316.	1.00	0.	34.			3153.50	10.73	0.75				*BO*	
===== END BRIDGE ANALYSIS =====																				
EMBANKMENT OVERFLOW (CFS) / LEFT										348.		RIGHT		241.						*RG*
K-APP	AT	3155.37	0.21	87	2880.	852.	72511.	1.20	315.	619.			3155.58	3.38	0.34				*AS*	
M = ****	F = ****	K* = ****			1353.	127237.	1.18	225.	645.				3156.83	2.13	0.20				*AS*	
===== END BRIDGE ANALYSIS =====																				
K+2.7	AT	3156.93	0.44	262	2880.	573.	47692.	1.13	415.	614.			3157.37	5.03	0.52				*XS*	

WATER-SURFACE PROFILE FOR: HOWARD CREEK FINAL ALL FLOODS FINAL
 PAGE 2 OF 2, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
L-2.7 AT  4938 /  252 /  2880. /  950. /  48413. / 1.27 /  49. /  595.
  3158.10 /  0.18 /  0.91 /  0.0 /  3158.28 /  3.03 /  0.42 /  0.004 *XS*
-----
L      AT  5200 /  262 /  2880. /  500. /  21467. / 1.42 /  102. /  594.
  3159.93 /  0.73 /  2.09 /  0.28 /  3160.66 /  5.76 /  0.83 /  0.013 *XS*
-----
M      AT  6315 / 1115 /  2880. /  791. /  47181. / 1.39 /  159. /  628.
  3169.51 /  0.29 /  9.13 /  0.0 /  3169.79 /  3.64 /  0.41 /  0.001 *XS*
=====
    
```

END OF THIS PROFILE

PAGE 1 OF PROFILE NOTES FOR: HOWARD CREEK FINAL ALL FLOODS FINAL
 PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

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

C	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
F APP:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
F APP:	MIN QTC > QT (3)	:	ASSUMED WSU = HIN
G	: FRDN FAILURE	:	
	: WS = 3145.50 & FR = 1.80	:	USED HIGHER WS
G	: WS NOT FOUND BETWEEN	:	
	: WS = 3143.73 & WS = 3152.70	:	USED DEL = 0.25
G	: FRDN FAILURE	:	
	: WS = 3145.50 & FR = 1.80	:	USED HIGHER WS
G	: WS NOT FOUND BETWEEN	:	
	: WS = 3143.73 & WS = 3152.70	:	USED WSMIN = WSC
G	: WS NOT FOUND	:	ASSUMED WS = WSC
K-APP:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
K-APP:	MAX QBO < QT (3)	:	CHECKED GRD
K+2.7:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
L	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
M	: WS TOO LOW	:	USED WSMIN = WSC
M	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER

WATER-SURFACE PROFILE FOR: HOWARD CREEK FINAL ALL FLOODS FINAL
 PAGE 1 OF 2, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	LV	HF	HE	EG	V	FN	ACC	REW	REMARKS
A	AT	3124.80	0	0	4630.	547.	51138.	1.27	8.	105.	*IS*
B	AT	3130.72	640	640	4630.	509.	45072.	1.15	36.	127.	*XS*
C	AT	3135.10	1170	530	4630.	984.	77771.	1.00	15.	243.	*XS*
D	AT	3138.48	1875	705	4630.	710.	54587.	1.10	271.	434.	*XS*
E-TW	AT	3142.48	2530	655	4630.	559.	59733.	1.24	473.	706.	*XS*
===== BEGIN BRIDGE ANALYSIS =====											
BR-OP	AT	3139.20	2530		3152.	385.	21828.	1.00	0.	85.	*RO*
EMBANKMENT OVERFLOW (CFS) / LEFT 1392. / RIGHT 738. / *RG*											
F APP	AT	3143.98	2674	144	4630.	1794.	171210.	1.19	520.	948.	*AS*
M = **** / F = **** / K* = **** / 1794. / 171210. / 1.19 / 520. / 948. / 3143.98 / 0.12 / / 3144.10 / 2.58 / 0.20 / *AS*											
===== END BRIDGE ANALYSIS =====											
G	AT	3147.80	3495	821	4370.	924.	55658.	2.15	20.	583.	*XS*
H	AT	3153.54	4210	715	4370.	415.	38965.	1.08	56.	143.	*XS*
J-TW	AT	3155.59	4337	127	4370.	567.	43855.	1.33	69.	252.	*XS*
===== BEGIN BRIDGE ANALYSIS =====											
BR-OP	AT	3153.50	4337		2097.	213.	12316.	1.00	0.	34.	*RO*
EMBANKMENT OVERFLOW (CFS) / LEFT 1241. / RIGHT 965. / *RG*											
K-APP	AT	3156.93	4424	87	4370.	1428.	135659.	1.18	50.	649.	*AS*
M = **** / F = **** / K* = **** / 1880. / 183921. / 1.19 / 35. / 669. / 3157.84 / 0.10 / / 3157.94 / 2.32 / 0.22 / *AS*											
===== END BRIDGE ANALYSIS =====											
K+2.7	AT	3158.02	4686	262	4370.	835.	71441.	1.19	324.	618.	*XS*

WATER-SURFACE PROFILE FOR: HOWARD CREEK FINAL ALL FLOODS FINAL
 PAGE 2 OF 2, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
L-2.7 AT 4938 / 252 / 4370. / 1479. / 96834. / 1.15 / 46. / 596.
 3159.06 / 0.16 / 0.70 / 0.0 / 3159.22 / 2.95 / 0.34 / 0.001 *XS*
-----
L AT 5200 / 262 / 4370. / 710. / 31725. / 1.41 / 59. / 595.
 3160.36 / 0.83 / 1.63 / 0.34 / 3161.18 / 6.15 / 0.92 / 0.001 *XS*
-----
M AT 6315 / 1115 / 4370. / 1087. / 72517. / 1.27 / 136. / 629.
 3170.13 / 0.32 / 9.26 / 0.0 / 3170.44 / 4.02 / 0.45 / 0.004 *XS*
=====
    
```

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: HOWARD CREEK FINAL ALL FLOODS
PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

FINAL

SECID	G	M
WSC	3147.80	3169.44

*** INPUT CARD PRINTOUT ***

USE FILE
HOWARD CREEK
ALL FLOODS
CARBON

	1	2	3	4	5	6	7	8
1	1	HOWARD CREEK FINAL ALL FLOODS				FINAL	19	4 02.99 10
2	2	312094 312258 312317 312480						
3	100	A 1 10 3 3115			000 99 99			
4	101	1520 2600 3070 4630						
5	105	0 1 31294 16 2 31197		29 2 31154	33 2 31143	40 2 31145		
5	106	46 2 31147 50 2 31154		62 3 31192	104 3 31243	116 3 31296		
6	107	1 2 070 070 2 4 045 055		1 2 065 065				
3	200	B 0 15 3 3120		640 99 99				
5	205	0 1 31316 3 1 31345		7 1 31354	28 1 31345	47 1 31259		
5	206	95 1 31253 89 2 31247		92 2 31225	97 2 31217	103 2 31191		
5	207	108 2 31211 112 2 31221		123 3 31304	139 3 31317	145 3 31363		
6	208	1 2 060 060 3 5 045 050		1 2 070 070				
3	300	C 0 19 2 3125		1170 99 99				
5	305	0 1 31399 20 1 31337		61 1 31325	65 1 31336	77 1 31336		
5	306	92 1 31321 100 1 31299		150 1 31305	200 2 31295	209 2 31283		
5	307	210 2 31267 216 2 31259		221 2 31255	226 2 31249	231 2 31267		
5	308	232 2 31277 240 2 31336		248 2 31380	250 2 31399			
6	310	1 2 045 045 2 4 065 065						
3	400	D 0 19 3 3128		1875 99 99				
5	410	0 1 31450 50 1 31424		100 1 31414	150 1 31404	244 1 31405		
5	411	254 1 31398 267 1 31388		300 1 31358	350 1 31343	374 2 31340		
5	412	380 2 31306 381 2 31282		385 2 31277	396 2 31283	397 2 31297		
5	413	404 3 31332 424 3 31331		432 3 31374	440 3 31427			
6	414	1 2 040 040 1 2 065 065		1 2 080 080				
3	500	F-TW 0 18 3 3133		2530 99 99				
5	505	330 1 31470 485 1 31421		550 1 31417	578 2 31418	585 2 31372		
5	506	590 2 31327 592 2 31321		604 2 31322	615 2 31320	620 2 31327		
5	507	622 2 31347 633 2 31372		642 3 31420	700 3 31424	750 3 31431		
5	508	800 3 31439 850 3 31453		870 3 31460				
6	510	1 2 045 045 2 4 045 045		1 2 050 050				
3	600	PP.OP 2 20 1 3133		2530 0 31392 3 0				
5	605	0 1 31392 0 1 31385		5 1 31374	15 1 31347	18 1 31332		
5	606	20 1 31329 28 1 31326		34 1 31322	42 1 31325	48 1 31328		
5	607	54 1 31326 58 1 31328		62 1 31339	68 1 31343	71 1 31358		
5	608	76 1 31371 81 1 31378		85 1 31378	85 1 31392	0 -9 31392		
6	609	1 2 050 050						
3	700	PIEPS 3 6		2				
5	705	1 31275 1 31328		2 21328	2 31364	5 31364		
5	706	5 31392						
3	800	ROAD 4 9 3 50		1 3 1 1		2		
5	805	400 1 31480 400 1 31420		500 1 31421	569 2 31422	654 3 31422		
5	806	700 3 31423 800 3 31434		900 3 31456	960 3 31473			
3	900	F APP 5 33 4 3134		2674 1 3				
5	905	520 1 31477 520 1 31433		550 1 31433	559 2 31421	571 2 31352		
5	906	576 2 31347 581 2 31341		597 2 31342	617 2 31334	619 2 31344		

*** 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 1535	609	4	31534	616	4	31579	650	4
6 1536	1	2	035 035	1	2	035 035	1	2
3 1560	L-2.7	0	27	3	3154	4938	99	99
5 1561	0	1	31666	7	1	31610	11	1
5 1562	47	1	31582	55	1	31577	105	1
5 1563	255	1	31554	305	1	31565	355	1
5 1564	447	2	31535	451	2	31527	462	2
5 1565	490	3	31568	505	3	31571	525	3
5 1566	593	3	31560	605	3	31669	555	3
6 1567	1	2	040 040	1	2	050 050	1	2
3 1600	L	0	27	3	3156	5200	99	99
5 1605	0	1	31693	7	1	31637	11	1
5 1606	47	1	31609	55	1	31604	105	1
5 1607	255	1	31581	305	1	31592	355	1
5 1608	447	2	31562	451	2	31554	462	2
5 1609	490	3	31595	505	3	31598	525	3
5 1610	593	3	31587	605	3	31696	555	3
6 1615	1	2	040 040	1	2	050 050	1	2
3 1700	M	0	22	3	3164	6315	99	99
5 1705	0	1	31773	43	1	31738	93	1
5 1706	243	1	31682	293	1	31679	343	1
5 1707	500	1	31672	508	2	31663	512	2
5 1708	542	2	31639	549	3	31683	558	3
5 1709	637	3	31745	643	3	31773	593	3
6 1715	1	2	045 040	1	2	050 050	1	2

PAGE 1 OF EDITING NOTES FOR: HOWARD CREEK FINAL ALL FLOODS FINAL

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BR.OP	WARNING	STATION	20	IS LESS THAN	STATION	19	
BR-OP	WARNING	STATION	8	IS LESS THAN	STATION	7	

INPUT SUMMARY FOR: HOWARD CREEK FINAL ALL FLOODS FINAL

19 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 19 TYPE 3 CARDS

KEPT 19 CROSS SECTIONS FOR EDITING

19 " " VALID FOR PROPERTY COMPUTATIONS

19 " " " " PROFILE "

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	HOWARDS CREEK	50&100 YR FLOOD	G+2.3-M	18	2	02	99 10
2	2	314920 314957						
3	1030	G+2.3 28	3 3141	3725	99 99			
4	1031	2440	2880					
5	1032	0	1 31550	26	1 31485	81	1 31478	162 2 31490 170 2 31444
5	1033	176	2 31418	180	2 31410	186	2 31402	192 2 31410 196 2 31418
5	1034	200	3 31478	250	3 31502	300	3 31490	350 3 31479 400 3 31487
5	1035	427	3 31494	434	3 31478	439	3 31492	461 3 31492 465 3 31478
5	1036	473	3 31489	500	3 31492	550	3 31499	600 3 31502 650 3 31501
5	1037	700	3 31502	750	3 31518	766	3 31549	
6	1038	1 2 060 060	2 4 045 045	1 2 040 035				
3	1060	H-2.3 0	9 3 3144	3975	99 99			
5	1061	0	1 31587	12	1 31543	58	2 31511	63 2 31431 77 2 31426
5	1062	90	2 31435	110	3 31481	140	3 31504	166 3 31570
6	1063	1 2 040 035	2 4 060 050	1 2 040 040				
3	1100	H	0 9 3 3146	4210	99 99			
5	1105	0	1 31610	12	1 31566	58	2 31534	63 2 31454 77 2 31449
5	1106	90	2 31458	110	3 31504	140	3 31527	166 3 31593
6	1110	1 2 040 035	2 4 060 050	1 2 040 040				
3	1200	J-TW	0 17 3 3148	4337	99 99			
5	1210	0	1 31608	28	1 31570	75	1 31554	100 1 31544 133 2 31528
5	1211	151	2 31501	161	2 31477	174	2 31461	177 2 31456 188 2 31467
5	1213	196	3 31547	242	3 31543	264	3 31571	285 3 31571 315 3 31570
5	1214	335	3 31572	375	3 31605			
6	1220	1 2 075 075	2 4 060 055	1 2 040 040				
3	1300	PR-OP 2	8 1 3148	4337	0 31535	1 0		
5	1305	0	1 31535	0	1 31484	6	1 31477	16 1 31467 25 1 31466
5	1306	34	1 31476	34	1 31534	0	-9 31535	
6	1310	1 2 050 050						
3	1400	ROAD	4 12 2 28	1 2	1 1			2
5	1401	0	1 31511	100	1 31594	200	1 31584	300 1 31571 400 1 31556
5	1402	440	1 31556	457	2 31556	474	2 31556	500 2 31558 600 2 31572
5	1403	720	2 31593	800	2 31608			
3	1500	K-APP 5	25 4 3148	4424	1 4			
5	1505	0	1 31600	50	1 31569	100	1 31587	150 1 31580 200 1 31571
5	1506	250	1 31564	300	1 31556	350	1 31548	400 1 31548 450 1 31529
5	1507	500	1 31517	550	1 31508	575	2 31508	580 2 31481 581 2 31476
5	1508	582	3 31476	592	3 31478	600	3 31471	605 3 31481 606 3 31487
5	1509	609	4 31507	616	4 31552	650	4 31570	700 4 31592 734 4 31611
6	1515	1 2 035 035	1 2 035 035	1 2 050 050	1 2 050 050			
3	1530	K+2.7 0	25 4 3151	4586	99 99			
5	1531	0	1 31627	50	1 31596	100	1 31615	150 1 31607 200 1 31598
5	1532	250	1 31591	300	1 31585	350	1 31575	400 1 31575 450 1 31556
5	1533	500	1 31544	550	1 31535	575	2 31535	580 2 31508 581 2 31503
5	1534	582	3 31503	592	3 31505	600	3 31498	605 3 31508 606 3 31514

Values assumed, correct

*** 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 1535	609	4	31534	616	4	31579	650	4
6 1536	1	2	035 035	1	2	035 035	1	2
3 1560	L-2.7	0	27	3	3154	4938	99	99
5 1561	0	1	31666	7	1	31610	11	1
5 1562	47	1	31582	55	1	31577	105	1
5 1563	255	1	31554	305	1	31565	355	1
5 1564	447	2	31535	451	2	31527	462	2
5 1565	490	3	31568	505	3	31571	525	3
5 1566	543	3	31560	605	3	31669	555	3
6 1567	1	2	040 040	1	2	050 050	1	2
3 1600	L	0	27	3	3155	5200	99	99
5 1605	0	1	31693	7	1	31637	11	1
5 1606	47	1	31609	55	1	31604	105	1
5 1607	255	1	31581	305	1	31592	355	1
5 1608	447	2	31562	451	2	31554	462	2
5 1609	490	3	31595	505	3	31598	525	3
5 1610	593	3	31587	605	3	31696	555	3
6 1615	1	2	040 040	1	2	050 050	1	2
3 1700	M	0	22	3	3164	6315	99	99
5 1705	0	1	31773	43	1	31738	93	1
5 1706	243	1	31682	293	1	31679	343	1
5 1707	500	1	31672	508	2	31663	512	2
5 1708	542	2	31639	549	3	31683	558	3
5 1709	637	3	31745	643	3	31773	593	3
6 1715	1	2	045 040	1	2	050 050	1	2

PAGE 1 OF EDITING NOTES FOR: HOWARDS CREEK 50&100 YR FLOOD G+2.3-M

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
G+2.3 RP-UP	WARNING WARNING	TYPE STATION		WRONG 8 IS LESS THAN	STATION	7	1 ✓

INPUT SUMMARY FOR: HOWARDS CREEK 50.100 YR FLOOD G+2.1-M

10 CROSS SECTIONS SPECIFIED (OP ASSUMED)

FOUND 11 TYPE 3 CARDS

KEPT 11 CROSS SECTIONS FOR EDITING

✓	11	"	"	VALID FOR PROPERTY COMPUTATIONS
	11	"	"	" " PROFILE "

PAGE 1 OF PROFILE NOTES FOR: HOWARDS CREEK 50&100 YR FLOOD G+2.3-M
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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

K-APP; KU/KD < 0.7 OR > 1.4	:	ALERTED USER
K+2.7; KU/KD < 0.7 OR > 1.4	:	ALERTED USER
L ; KU/KD < 0.7 OR > 1.4	:	ALERTED USER
M ; WS TOO LOW	:	USED WSMIN = WSC
M ; KU/KD < 0.7 OR > 1.4	:	ALERTED USER

WATER-SURFACE PROFILE FOR: HOWARDS CREEK 50X100 YR FLOOD G+2.3-M
 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*								
G+2.3	AT	3725	/	0	/	2440.	/	494.	/	31277.	/	2.17	/	23.	/	500.
3149.20	/	0.82	/		/	3150.02	/	4.94	/	0.57	/		/		/	*IS*
H-2.3	AT	3975	/	250	/	2440.	/	371.	/	33397.	/	1.08	/	58.	/	141.
3150.72	/	0.73	/	1.42	/	0.0	/	3151.45	/	6.58	/	0.49	/	-0.000	/	*XS*
H	AT	4210	/	235	/	2440.	/	304.	/	25718.	/	1.06	/	59.	/	133.
3152.18	/	1.07	/	1.63	/	0.17	/	3153.25	/	8.03	/	0.63	/	0.000	/	*XS*
J-TW	AT	4337	/	127	/	2440.	/	304.	/	22263.	/	1.03	/	118.	/	195.
3153.54	/	1.03	/	1.32	/	0.0	/	3154.57	/	8.04	/	0.66	/	0.005	/	*XS*
===== BEGIN BRIDGE ANALYSIS =====																
BR-UP	AT	4337	/		/	2265.	/	213.	/	12316.	/	1.00	/	0.	/	34.
3153.50	/	1.75	/	...3...	/	(-.001)	/	10.62	/	0.75	/		/		/	*BO*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 113. / RIGHT 68. / *RG* =====																
K-APP	AT	4424	/	87	/	2440.	/	678.	/	60052.	/	1.11	/	402.	/	615.
3154.74	/	0.22	/	0.39	/	0.0	/	3154.96	/	3.60	/	0.36	/	-0.000	/	*AS*
M = ****	/	F = ****	/	K* = ****	/	1131.	/	102467.	/	1.18	/	263.	/	635.	/	
3156.19	/	0.09	/		/	3156.27	/	2.16	/	0.21	/		/		/	*AS*
===== END BRIDGE ANALYSIS =====																
K+2.7	AT	4686	/	262	/	2440.	/	473.	/	36732.	/	1.16	/	429.	/	614.
3156.41	/	0.48	/	0.41	/	0.20	/	3156.89	/	5.16	/	0.55	/	-0.000	/	*XS*
L-2.7	AT	4938	/	252	/	2440.	/	788.	/	36737.	/	1.35	/	53.	/	595.
3157.80	/	0.20	/	1.11	/	0.0	/	3158.00	/	3.09	/	0.45	/	0.005	/	*XS*
L	AT	5200	/	262	/	2440.	/	446.	/	18878.	/	1.44	/	112.	/	594.
3159.80	/	0.67	/	2.25	/	0.23	/	3160.47	/	5.47	/	0.80	/	-0.016	/	*XS*
M	AT	6315	/	1115	/	2440.	/	684.	/	38844.	/	1.48	/	170.	/	567.
3169.25	/	0.29	/	9.05	/	0.0	/	3169.54	/	3.56	/	0.40	/	0.020	/	*XS*

USE CRITICAL

END OF THIS PROFILE

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

COMPUTED WSC VALUES FOR: HOWARDS CREEK 50&100 YR FLOOD G+2.3-M
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID M
WSC 3168.61

PAGE 1 OF PROFILE NOTES FOR: HOWARDS CREEK 50&100 YR FLOOD G+2.3-M
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

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

K-APP; KU/KD < 0.7 OR > 1.4	:	ALERTED USER
K+2.7; KU/KD < 0.7 OR > 1.4	:	ALERTED USER
L ; KU/KD < 0.7 OR > 1.4	:	ALERTED USER
M ; WS TOO LOW	:	USED WSMIN = WSC
M ; KU/KD < 0.7 OR > 1.4	:	ALERTED USER

WATER-SURFACE PROFILE FOR: HOWARDS CREEK 50&100 YR FLOOD G+2.3-M
 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#

=====

G+2.3	AT	3725 /	0 /	2880. /	656. /	39592. /	2.28 / 22. / 526.
3149.57 /	0.68 /			3150.25 /	4.39 /	0.53 /	*IS*

H-2.3	AT	3975 /	250 /	2880. /	388. /	35505. /	1.08 / 58. / 142.
3150.93 /	0.92 /	1.48 /	0.12 /	3151.85 /	7.42 /	0.55 /	0.000 *XS*

H	AT	4210 /	235 /	2880. /	339. /	29653. /	1.08 / 58. / 139.
3152.64 /	1.21 /	1.85 /	0.14 /	3153.84 /	8.49 /	0.65 /	0.000 *XS*

J-TW	AT	4337 /	127 /	2880. /	345. /	26278. /	1.07 / 107. / 195.
3154.04 /	1.16 /	1.35 /	0.0 /	3155.20 /	8.34 /	0.66 /	0.005 *XS*

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

BR-OP	AT	4337 /	/	2287. /	213. /	12316. /	1.00 / 0. / 34.
3153.50 /	1.79 /	...	3... (-.001)	/	10.73 /	0.75 /	*R0*

EMBANKMENT OVERFLOW (CFS) / LEFT 348. / RIGHT 241. / *R6*

K-APP	AT	4424 /	87 /	2880. /	853. /	72534. /	1.20 / 315. / 619.
3155.37 /	0.21 /	0.38 /	0.0 /	3155.58 /	3.38 /	0.34 /	-0.001 *AS*

M = ****	/ E = ****	/ K* = ****	/	1353. /	127330. /	1.18 /	225. / 645.
3156.75 /	0.08 /			3156.83 /	2.13 /	0.20 /	*AS*

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

K+2.7	AT	4686 /	262 /	2880. /	573. /	47725. /	1.13 / 415. / 614.
3156.93 /	0.44 /	0.36 /	0.18 /	3157.37 /	5.02 /	0.52 /	-0.001 *XS*

L-2.7	AT	4938 /	252 /	2880. /	950. /	48434. /	1.26 / 49. / 595.
3158.10 /	0.18 /	0.90 /	0.0 /	3159.28 /	3.03 /	0.42 /	0.004 *XS*

L	AT	5200 /	262 /	2880. /	500. /	21461. /	1.42 / 102. / 594.
3159.93 /	0.73 /	2.09 /	0.28 /	3160.66 /	5.76 /	0.83 /	0.012 *XS*

M	AT	6315 /	1115 /	2880. /	792. /	47190. /	1.39 / 159. / 628.
3169.51 /	0.29 /	9.13 /	0.0 /	3169.79 /	3.64 /	0.41 /	0.001 *XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.130 *** PAGE COUNT= 12:DATE= 2/ 9/78

COMPUTED WSC VALUES FOR: HOWARDS CREEK 50&100 YR FLOOD G+2.3-M
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECID H
WSC 3168.89

PAGE 1 OF PROFILE NOTES FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
 PROFILE NUMBER 1: DOWNSTREAM COMPUTATIONS

RECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
J-TW	WS TOO LOW		ASSUMED WS = WSC
H	WS NOT FOUND BETWEEN	WS = 3149.31 & WS = 3145.10	USED DEL = 0.25
H	WS NOT FOUND BETWEEN	WS = 3149.31 & WS = 3145.10	USED KE = 0.5
H	WS NOT FOUND		ASSUMED WS = WSC
H-2.3	WS NOT FOUND BETWEEN	WS = 3147.03 & WS = 3142.80	USED DEL = 0.25
H-2.3	WS NOT FOUND BETWEEN	WS = 3147.03 & WS = 3142.80	USED KE = 0.5
H-2.3	WS NOT FOUND		ASSUMED WS = WSC
G+2.3	WS NOT FOUND BETWEEN	WS = 3145.97 & WS = 3140.40	USED DEL = 0.25
G+2.3	WS NOT FOUND BETWEEN	WS = 3145.97 & WS = 3140.40	USED KE = 0.5
G+2.3	WS NOT FOUND		ASSUMED WS = WSC
G	WS NOT FOUND BETWEEN	WS = 3143.65 & WS = 3138.10	USED DEL = 0.25
G	WS NOT FOUND BETWEEN	WS = 3143.65 & WS = 3138.10	USED KE = 0.5
G	WS NOT FOUND		ASSUMED WS = WSC
G-1.5	WS NOT FOUND BETWEEN	WS = 3142.36 & WS = 3136.60	USED DEL = 0.25
G-1.5	WS NOT FOUND BETWEEN	WS = 3142.36 & WS = 3136.60	USED KE = 0.5
G-1.5	WS NOT FOUND		ASSUMED WS = WSC
F+1.5	WS NOT FOUND BETWEEN	WS = 3138.54 & WS = 3134.90	USED DEL = 0.25
F+1.5	WS NOT FOUND BETWEEN	WS = 3138.54 & WS = 3134.90	USED KE = 0.5
F+1.5	WS NOT FOUND		ASSUMED WS = WSC
F APP	WS NOT FOUND BETWEEN	WS = 3137.18 & WS = 3133.60	USED DEL = 0.25
F APP	WS NOT FOUND BETWEEN	WS = 3137.18 & WS = 3133.60	

F APP; WS NOT FOUND

BR.OP; WS NOT FOUND BETWEEN

RR.OP; WS NOT FOUND BETWEEN

RR.OP; WS NOT FOUND

E-TW ; SUPERCRITICAL WS

D ; WS NOT FOUND BETWEEN

D ; WS NOT FOUND BETWEEN

D ; WS NOT FOUND

USED KE = 0.5

ASSUMED WS = WSC

; WS = 3135.89 & WS = 3132.40;

USED DEL = 0.25

; WS = 3135.89 & WS = 3132.40;

USED KE = 0.5

ASSUMED WS = WSC

COMPUTED WSA

; WS = 3134.67 & WS = 3127.90;

USED DEL = 0.25

; WS = 3134.67 & WS = 3127.90;

USED KE = 0.5

ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
 PAGE 1 OF 1, PROFILE NUMBER 1, DOWNSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 4337 / 0 / 1420. / 141. / 7638. / 1.00 / 147. / 192.
3150.70 / 1.58 / / 3152.27 / 10.06 / 1.00/ *IS*
-----
H AT 4210 / -127 / 1420. / 141. / 8041. / 1.00 / 61. / 105.
3149.31 / 1.57 /***** /***** / 3150.88 / 10.06 / 1.00 /***** *XS*
-----
H-2.3 AT 3975 / -235 / 1420. / 142. / 8121. / 1.00 / 61. / 105.
3147.03 / 1.56 /***** /***** / 3148.58 / 10.00 / 0.99 /***** *XS*
-----
G+2.3 AT 3725 / -250 / 1420. / 126. / 9842. / 1.00 / 167. / 199.
3145.97 / 1.97 /***** /***** / 3147.94 / 11.24 / 0.99 /***** *XS*
-----
G AT 3495 / -230 / 1420. / 126. / 9774. / 1.00 / 167. / 199.
3143.65 / 1.99 /***** /***** / 3145.64 / 11.30 / 1.00 /***** *XS*
-----
G-1.5 AT 3221 / -274 / 1520. / 132. / 10499. / 1.00 / 167. / 199.
3142.36 / 2.06 /***** /***** / 3144.42 / 11.50 / 1.00 /***** *XS*
-----
F+1.5 AT 2948 / -273 / 1520. / 169. / 8910. / 1.02 / 566. / 768.
3138.54 / 1.28 /***** /***** / 3139.82 / 8.97 / 1.02 /***** *XS*
-----
F APP AT 2674 / -274 / 1520. / 168. / 8867. / 1.03 / 568. / 768.
3137.18 / 1.32 /***** /***** / 3138.50 / 9.07 / 1.03 /***** *AS*
-----
SP.OP AT 2530 / -144 / 1520. / 164. / 9321. / 1.00 / 11. / 71.
3135.89 / 1.34 /***** /***** / 3137.24 / 9.29 / 1.18 /***** *80*
-----
F-IW AT 2530 / 0 / 1520. / 125. / 8370. / 1.00 / 586. / 627.
3135.89 / 2.31 /***** /***** / 3139.21 / 12.20 / 1.23 /***** *XS*
-----
D AT 1875 / -655 / 1520. / 195. / 10088. / 1.27 / 338. / 427.
3134.67 / 1.19 /***** /***** / 3135.86 / 7.78 / 1.04 /***** *XS*
=====
    
```

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
PROFILE NUMBER 1, DOWNSTREAM COMPUTATIONS

SECID	D	E-TW	BR.OP	F APP	F+1.5	G-1.5	G	G+2.3
WSC	3134.67	3136.43	3135.89	3137.18	3138.54	3142.36	3143.65	3145.97

SECID	H-2.3	H	J-TW
WSC	3147.03	3149.31	3150.70

COMPUTED WSA VALUES FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
PROFILE NUMBER 1, DOWNSTREAM COMPUTATIONS

SECID	E-TW
WSA	3137.04

PAGE 1 OF PROFILE NOTES FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
 PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

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

J-TW	: WS TOO LOW	:	ASSUMED WS = WSC
H	: WS NOT FOUND BETWEEN	:	
	: WS = 3150.80 & WS = 3145.10;	:	USED DEL = 0.25
H	: WS NOT FOUND BETWEEN	:	
	: WS = 3150.80 & WS = 3145.10;	:	USED KE = 0.5
H	: WS NOT FOUND	:	ASSUMED WS = WSC
H-2.31	: WS NOT FOUND BETWEEN	:	
	: WS = 3148.50 & WS = 3142.80;	:	USED DEL = 0.25
H-2.31	: WS NOT FOUND BETWEEN	:	
	: WS = 3148.50 & WS = 3142.80;	:	USED KE = 0.5
H-2.31	: WS NOT FOUND	:	ASSUMED WS = WSC
G+2.31	: WS NOT FOUND BETWEEN	:	
	: WS = 3149.20 & WS = 3140.40;	:	USED DEL = 0.25
G+2.31	: WS NOT FOUND BETWEEN	:	
	: WS = 3149.20 & WS = 3140.40;	:	USED KE = 0.5
G+2.31	: WS NOT FOUND	:	ASSUMED WS = WSC
G	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
G	: SUPERCRITICAL WS	:	COMPUTED WSA
G-1.51	: WS NOT FOUND BETWEEN	:	
	: WS = 3145.66 & WS = 3136.60;	:	USED DEL = 0.25
G-1.51	: WS NOT FOUND BETWEEN	:	
	: WS = 3145.66 & WS = 3136.60;	:	USED KE = 0.5
G-1.51	: WS NOT FOUND	:	ASSUMED WS = WSC
F+1.51	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER
F+1.51	: SUPERCRITICAL WS	:	COMPUTED WSA
F APP	: WS NOT FOUND BETWEEN	:	
	: WS = 3138.68 & WS = 3133.60;	:	USED DEL = 0.25
F APP	: WS NOT FOUND BETWEEN	:	
	: WS = 3138.64 & WS = 3133.60;	:	USED KE = 0.5
F APP	: WS NOT FOUND	:	ASSUMED WS = WSC
BR.OP	: WS NOT FOUND BETWEEN	:	
	: WS = 3137.16 & WS = 3132.40;	:	USED DEL = 0.25
BR.OP	: WS NOT FOUND BETWEEN	:	
	: WS = 3137.16 & WS = 3132.40;	:	

BR.OP: WS NOT FOUND

E-TW : SUPERCRITICAL WS

D : WS NOT FOUND BETWEEN

D : WS NOT FOUND BETWEEN

D : WS NOT FOUND

: WS = 3135.97 & WS = 3127.90:

: WS = 3135.97 & WS = 3127.90:

USED KE = 0.5

ASSUMED WS = WSC

COMPUTED WSA

USED DEL = 0.25

USED KE = 0.5

ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
 PAGE 1 OF 1, PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ IEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
J-TW AT 4337 / 0 / 2440. / 219. / 14020. / 1.00 / 137. / 194.
3152.23 / 1.93 / / 3154.16 / 11.15 / 1.00/ *IS*
-----
H AT 4210 / -127 / 2440. / 214. / 15887. / 1.01 / 60. / 115.
3150.80 / 2.03 /***** /***** / 3152.83 / 11.39 / 1.03 /***** *XS*
-----
H-2.3 AT 3975 / -235 / 2440. / 214. / 15888. / 1.01 / 60. / 115.
3148.50 / 2.03 /***** /***** / 3150.53 / 11.39 / 1.03 /***** *XS*
-----
G+2.3 AT 3725 / -250 / 2440. / 492. / 31192. / 2.16 / 23. / 500.
3149.20 / 0.83 /***** /***** / 3150.02 / 4.96 / 1.13 /***** *XS*
-----
G AT 3495 / -230 / 2440. / 274. / 21575. / 1.47 / 28. / 470.
3146.18 / 1.81 / 2.03 / 0.0 / 3147.99 / 8.91 / 1.73 / -0.003 *XS*
-----
G-1.5 AT 3221 / -274 / 2600. / 604. / 36734. / 2.29 / 22. / 518.
3145.66 / 0.66 /***** /***** / 3146.32 / 4.30 / 0.99 /***** *XS*
-----
F+1.5 AT 2948 / -273 / 2600. / 199. / 10994. / 1.06 / 565. / 768.
3138.93 / 2.80 / 4.57 / 0.0 / 3141.73 / 13.05 / 1.57 / 0.012 *XS*
-----
F APP AT 2674 / -274 / 2600. / 352. / 19418. / 1.24 / 565. / 772.
3138.68 / 1.05 /***** /***** / 3139.72 / 7.38 / 0.99 /***** *AS*
-----
RR.OP AT 2530 / -144 / 2600. / 246. / 16687. / 1.00 / 6. / 76.
3137.16 / 1.73 /***** /***** / 3138.89 / 10.55 / 1.00 /***** *R0*
-----
E-TW AT 2530 / 0 / 2600. / 181. / 13938. / 1.00 / 585. / 633.
3137.16 / 3.22 /***** /***** / 3140.38 / 14.40 / 1.31 /***** *XS*
-----
D AT 1875 / -655 / 2600. / 341. / 19238. / 1.25 / 298. / 429.
3135.97 / 1.13 /***** /***** / 3137.10 / 7.63 / 0.93 /***** *XS*
=====
    
```

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	D	E-TW	BR.OP	F APP	F+1.5	G-1.5	G	G+2.3
WSC	3135.97	3137.96	3137.16	3138.68	3140.06	3145.66	3146.90	3149.20

SECID	H-2.3	H	J-TW
WSC	3148.50	3150.80	3152.23

COMPUTED WSA VALUES FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	E-TW	F+1.5	G
WSA	3138.97	3141.33	3147.75

PAGE 1 OF PROFILE NOTES FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
 PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
J-TW	WS TOO LOW		ASSUMED WS = WSC
H	WS NOT FOUND BETWEEN	WS = 3151.41 & WS = 3145.10	USED DEL = 0.25
H	WS NOT FOUND BETWEEN	WS = 3151.41 & WS = 3145.10	USED KE = 0.5
H	WS NOT FOUND		ASSUMED WS = WSC
H-2.3	WS NOT FOUND BETWEEN	WS = 3149.11 & WS = 3142.80	USED DEL = 0.25
H-2.3	WS NOT FOUND BETWEEN	WS = 3149.11 & WS = 3142.80	USED KE = 0.5
H-2.3	WS NOT FOUND		ASSUMED WS = WSC
G+2.3	WS NOT FOUND BETWEEN	WS = 3149.57 & WS = 3140.40	USED DEL = 0.25
G+2.3	WS NOT FOUND BETWEEN	WS = 3149.57 & WS = 3140.40	USED KE = 0.5
G+2.3	WS NOT FOUND		ASSUMED WS = WSC
G	KU/KD < 0.7 OR > 1.4		ALERTED USER
G	SUPERCritical WS		COMPUTED WSA
G-1.5	WS NOT FOUND BETWEEN	WS = 3145.86 & WS = 3136.60	USED DEL = 0.25
G-1.5	WS NOT FOUND BETWEEN	WS = 3145.86 & WS = 3136.60	USED KE = 0.5
G-1.5	WS NOT FOUND		ASSUMED WS = WSC
F+1.5	KU/KD < 0.7 OR > 1.4		ALERTED USER
F+1.5	SUPERCritical WS		COMPUTED WSA
F APP	WS NOT FOUND BETWEEN	WS = 3138.88 & WS = 3133.60	USED DEL = 0.25
F APP	WS NOT FOUND BETWEEN	WS = 3138.89 & WS = 3133.60	USED KE = 0.5
F APP	WS NOT FOUND		ASSUMED WS = WSC
BR.OP	WS NOT FOUND BETWEEN	WS = 3137.64 & WS = 3132.40	USED DEL = 0.25
BR.OP	WS NOT FOUND BETWEEN	WS = 3137.64 & WS = 3132.40	

BR.OP; WS NOT FOUND

E-TW ; SUPERCRITICAL WS

D ; WS NOT FOUND BETWEEN

D ; WS NOT FOUND BETWEEN

D ; WS NOT FOUND

; WS = 3136.26 & WS = 3127.90;

; WS = 3136.26 & WS = 3127.90;

USED KE = 0.5

ASSUMED WS = WSC

COMPUTED WSA

USED DEL = 0.25

USED KE = 0.5

ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
 PAGE 1 OF 1, PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

```

=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
J-TW AT 4337 / 0 / 2880. / 251. / 16855. / 1.00 / 133. / 194.
 3152.77 / 2.06 / / 3154.82 / 11.50 / 1.00/ *IS*
-----
H AT 4210 / -127 / 2880. / 251. / 19861. / 1.03 / 59. / 123.
 3151.41 / 2.12 /***** /***** / 3153.53 / 11.49 / 1.04 /***** *XS*
-----
H-2.3 AT 3975 / -235 / 2880. / 251. / 19862. / 1.03 / 59. / 123.
 3149.11 / 2.12 /***** /***** / 3151.23 / 11.49 / 1.04 /***** *XS*
-----
G+2.3 AT 3725 / -250 / 2880. / 658. / 39708. / 2.26 / 22. / 527.
 3149.57 / 0.68 /***** /***** / 3150.25 / 4.38 / 0.98 /***** *XS*
-----
G AT 3495 / -230 / 2880. / 359. / 25138. / 1.84 / 25. / 472.
 3146.51 / 1.83 / 1.91 / 0.0 / 3148.34 / 8.01 / 1.74 / 0.001 *XS*
-----
G-1.5 AT 3221 / -274 / 3070. / 699. / 42112. / 2.26 / 21. / 533.
 3145.86 / 0.68 /***** /***** / 3146.54 / 4.39 / 0.96 /***** *XS*
-----
F+1.5 AT 2948 / -273 / 3070. / 249. / 13830. / 1.14 / 565. / 769.
 3139.40 / 2.71 / 4.42 / 0.0 / 3142.10 / 12.35 / 1.65 / 0.018 *XS*
-----
F APP AT 2674 / -274 / 3070. / 386. / 21705. / 1.24 / 565. / 772.
 3138.88 / 1.22 /***** /***** / 3140.10 / 7.95 / 1.05 /***** *AS*
-----
BR.OP AT 2530 / -144 / 3070. / 282. / 19867. / 1.00 / 4. / 80.
 3137.64 / 1.84 /***** /***** / 3139.49 / 10.89 / 1.00 /***** *B0*
-----
E-TW AT 2530 / 0 / 3070. / 204. / 16667. / 1.00 / 584. / 634.
 3137.64 / 3.52 /***** /***** / 3141.16 / 15.04 / 1.31 /***** *XS*
-----
D AT 1875 / -655 / 3070. / 379. / 22205. / 1.21 / 295. / 430.
 3136.26 / 1.24 /***** /***** / 3137.49 / 8.10 / 0.94 /***** *XS*
=====
    
```

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

SECID	D	E-TW	BR.OP	F APP	F+1.5	G-1.5	G	G+2.3
WSC	3136.26	3138.54	3137.64	3138.88	3140.31	3145.86	3147.27	3149.77

SECID	H-2.3	H	J-TW
WSC	3149.11	3151.41	3152.77

COMPUTED WSA VALUES FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
PROFILE NUMBER 3, DOWNSTREAM COMPUTATIONS

SECID	E-TW	F+1.5	G
WSA	3139.63	3141.67	3148.13

PAGE 1 OF PROFILE NOTES FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
 PROFILE NUMBER 4. DOWNSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
J-TW	WS TOO LOW		ASSUMED WS = WSC
H	WS NOT FOUND BETWEEN	WS = 3153.12 & WS = 3145.10	USED DEL = 0.25
H	WS NOT FOUND BETWEEN	WS = 3153.12 & WS = 3145.10	USED KE = 0.5
H	WS NOT FOUND		ASSUMED WS = WSC
H-2.3	WS NOT FOUND BETWEEN	WS = 3150.82 & WS = 3142.80	USED DEL = 0.25
H-2.3	WS NOT FOUND BETWEEN	WS = 3150.82 & WS = 3142.80	USED KE = 0.5
H-2.3	WS NOT FOUND		ASSUMED WS = WSC
G+2.3	WS NOT FOUND BETWEEN	WS = 3150.10 & WS = 3140.40	USED DEL = 0.25
G+2.3	WS NOT FOUND BETWEEN	WS = 3150.10 & WS = 3140.40	USED KE = 0.5
G+2.3	WS NOT FOUND		ASSUMED WS = WSC
G	KU/KD < 0.7 OR > 1.4		ALERTED USER
G	SUPERCritical WS		COMPUTED WSA
G-1.5	WS NOT FOUND BETWEEN	WS = 3146.30 & WS = 3136.60	USED DEL = 0.25
G-1.5	WS NOT FOUND BETWEEN	WS = 3146.30 & WS = 3136.60	USED KE = 0.5
G-1.5	WS NOT FOUND		ASSUMED WS = WSC
F+1.5	KU/KD < 0.7 OR > 1.4		ALERTED USER
F+1.5	SUPERCritical WS		COMPUTED WSA
F APP	WS NOT FOUND BETWEEN	WS = 3139.86 & WS = 3133.60	USED DEL = 0.25
F APP	WS NOT FOUND BETWEEN	WS = 3139.86 & WS = 3133.60	USED KE = 0.5
F APP	WS NOT FOUND		ASSUMED WS = WSC
BR.OP	WS NOT FOUND BETWEEN	WS = 3138.87 & WS = 3132.40	USED DEL = 0.25
BR.OP	WS NOT FOUND BETWEEN	WS = 3138.87 & WS = 3132.40	

RR.OP: WS NOT FOUND

E-TW : SUPERCRITICAL WS

D : WS NOT FOUND BETWEEN

D : WS NOT FOUND BETWEEN

D : WS NOT FOUND

; WS = 3137.09 & WS = 3127.90;

; WS = 3137.09 & WS = 3127.90;

USED KE = 0.5

ASSUMED WS = WSC

COMPUTED WSA

USED DEL = 0.25

USED KE = 0.5

ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
 PAGE 1 OF 1, PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	AT	WS ELEV	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
			HV	HF	HE	EG	V	FN	ACC
									ID*
J-TW	AT	4337 / 3154.33	0 / 2.37	4370. /	371. /	28703. /	1.10 /	102. /	242. /
									11.77 / 1.11 / *IS*
H	AT	4210 / 3153.12	-127 / 2.23	4370. /	379. /	34424. /	1.08 /	58. /	142. /
									0.99 / ***** *XS*
H-2.3	AT	3975 / 3150.82	-235 / 2.23	4370. /	379. /	34427. /	1.08 /	58. /	142. /
									0.99 / ***** *XS*
G+2.3	AT	3725 / 3150.10	-250 / 0.75	4370. /	924. /	55656. /	2.15 /	20. /	583. /
									0.95 / ***** *XS*
G	AT	3495 / 3147.27	-230 / 1.57	4370. /	656. /	39630. /	2.28 /	22. /	527. /
									1.49 / 0.014 *XS*
G-1.5	AT	3221 / 3146.30	-274 / 0.84	4630. /	924. /	55658. /	2.15 /	20. /	583. /
									1.01 / ***** *XS*
F+1.5	AT	2948 / 3140.48	-273 / 2.37	4630. /	419. /	24534. /	1.25 /	563. /	773. /
									1.42 / 0.006 *XS*
F APP	AT	2674 / 3139.86	-274 / 1.29	4630. /	577. /	36499. /	1.29 /	563. /	776. /
									0.98 / ***** *AS*
BR.OP	AT	2530 / 3138.87	-144 / 2.27	4630. /	384. /	30478. /	1.00 /	0. /	85. /
									1.00 / ***** *90*
E-TW	AT	2530 / 3138.87	0 / 4.67	4630. /	267. /	24631. /	1.00 /	582. /	636. /
									1.37 / ***** *XS*
D	AT	1875 / 3137.09	-655 / 1.55	4630. /	496. /	32338. /	1.14 /	286. /	431. /
									0.95 / ***** *XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	D	E-TW	BR.0P	F APP	F+1.5	G-1.5	G	G+2.3
WSC	3137.09	3140.14	3138.87	3139.86	3140.99	3146.30	3147.80	3150.10

SECID	H-2.3	H	J-TW
WSC	3150.82	3153.12	3154.33

COMPUTED WSA VALUES FOR: HOWARDS CREEK ALL FLOODS DOWN D-J
PROFILE NUMBER 4, DOWNSTREAM COMPUTATIONS

SECID	E-TW	F+1.5	G
WSA	3141.81	3142.14	3148.61

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
3	970	G-1.5	0	28	3	3138	3221	99 99
5	971		0	1	31512	26	1	31447 81 1 31440 162 2 31452 170 2 31406
5	972		176	2	31380	180	2	31372 186 2 31364 192 2 31372 196 2 31380
5	973		200	3	31440	250	3	31464 300 3 31452 350 3 31441 400 3 31449
5	974		427	3	31456	434	3	31440 439 3 31454 461 3 31454 465 3 31440
5	975		473	3	31451	500	3	31454 550 3 31461 600 3 31464 650 3 31463
5	976		700	3	31464	750	3	31480 766 3 31511
6	978	1	2	060	060	2	4	045 045 1 2 040 035
3	1000	G		1	28	3	3139	3495 99 99
4	1001		1420		2440		2880	4370
5	1005		0	1	31527	26	1	31462 81 1 31455 162 2 31467 170 2 31421
5	1006		176	2	31395	180	2	31387 186 2 31379 192 2 31387 196 2 31395
5	1007		200	3	31455	250	3	31479 300 3 31467 350 3 31456 400 3 31464
5	1008		427	3	31471	434	3	31455 439 3 31469 461 3 31469 465 3 31455
5	1009		473	3	31466	500	3	31469 550 3 31476 600 3 31479 650 3 31478
5	1010		700	3	31479	750	3	31495 766 3 31526
6	1015	1	2	060	060	2	4	045 045 1 2 040 035
3	1030	G+2.3	0	28	3	3141	3725	99 99
5	1031		0	1	31550	26	1	31485 81 1 31478 162 2 31490 170 2 31444
5	1032		176	2	31418	180	2	31410 186 2 31402 192 2 31410 196 2 31418
5	1033		200	3	31478	250	3	31502 300 3 31490 350 3 31479 400 3 31487
5	1034		427	3	31494	434	3	31478 439 3 31492 461 3 31492 465 3 31478
5	1035		473	3	31489	500	3	31492 550 3 31499 600 3 31502 650 3 31501
5	1036		700	3	31502	750	3	31518 766 3 31549
6	1038	1	2	060	060	2	4	045 045 1 2 040 035
3	1060	H-2.3	0	9	3	3144	3975	99 99
5	1061		0	1	31587	12	1	31543 58 2 31511 63 2 31431 77 2 31426
5	1062		90	2	31435	110	3	31481 140 3 31504 166 3 31570
6	1063	1	2	040	035	2	4	060 050 1 2 040 040
3	1100	H		0	9	3	3146	4210 99 99
5	1105		0	1	31610	12	1	31566 58 2 31534 63 2 31454 77 2 31449
5	1106		90	2	31458	110	3	31504 140 3 31527 166 3 31593
6	1110	1	2	040	035	2	4	060 050 1 2 040 040
3	1200	J-TW		0	17	3	3148	4337 99 99
5	1210		0	1	31608	28	1	31570 75 1 31554 100 1 31544 133 2 31528
5	1211		151	2	31501	161	2	31477 174 2 31461 177 2 31456 188 2 31467
5	1213		196	3	31547	242	3	31543 264 3 31571 285 3 31571 315 3 31570
5	1214		335	3	31572	375	3	31505
6	1220	1	2	075	075	2	4	060 055 1 2 040 040

PAGE 1 OF EDITING NOTES FOR: HOWARDS CREEK ALL FLOODS DOWN D-J

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
D	WARNING	TYPE		WRONG			1
BR.OP	WARNING	STATION	20	IS LESS THAN	STATION	19	

INPUT SUMMARY FOR: HOWARDS CREEK ALL FLOODS DOWN D-J

13 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 13 TYPE 3 CARDS

KEPT 13 CROSS SECTIONS FOR EDITING

13 " " VALID FOR PROPERTY COMPUTATIONS

13 " " " " PROFILE "