

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	GAP	CHEEK	FINAL	RUN	A-L	10.50,100.500	YR
2	2	205195	296273	296300	296328			
3	100	3	1	21	3	2956	0	00
4	104	450	1680	2010	3080			
5	105	0	1	29690	78	1	29659	175
5	106	288	1	29612	371	1	29607	396
5	107	410	2	29553	414	2	29552	417
5	109	468	3	29616	515	3	29619	553
5	109	665	3	29683				
6	110	1	2	070	070	2	5	045
3	200	0	0	21	1	2959	510	99
5	205	0	1	29708	40	1	29647	80
5	206	187	1	29590	194	1	29589	203
5	207	235	1	29580	240	1	29574	246
5	208	300	1	29618	350	1	29628	400
5	209	543	1	29706				
6	210	1	2	040	040			
3	300	0	0	18	3	2960	0915	99
5	305	0	1	29725	50	1	29690	100
5	306	217	2	29625	221	2	29600	224
5	307	241	2	29595	253	3	29642	300
5	308	433	3	29685	450	3	29703	457
6	309	1	2	040	035	2	5	045
3	400	0	0	15	3	2962	1520	99
5	405	0	1	29738	29	1	29695	51
5	406	64	2	29607	73	2	29611	86
5	407	200	3	29681	250	3	29680	273
6	408	1	2	040	035	1	4	045
3	500	0	0	019	3	2965	2118	99
5	505	0	1	29780	50	1	29747	100
5	506	150	2	29643	152	2	29638	157
5	507	165	2	29656	168	3	29685	205
5	508	350	3	29698	380	3	29707	389
6	509	1	2	040	035	1	4	045
3	600	0	0	019	3	2965	2118	99
5	605	0	1	29715	3	1	29764	6
5	606	21	1	29643	24	1	29684	26
6	609	1	2	050	050			
3	650	0	0	019	3	2965	2118	99
5	655	0	1	29800	100	1	29747	153
5	656	255	2	29723	300	2	29725	349
3	700	0	0	019	3	2965	2118	99
5	705	0	1	29790	40	1	29759	93
5	706	176	1	29655	177	1	29653	178
5	707	195	2	29644	200	2	29640	202

OK to
 USE THROUGH R I-41
 ALL FLOODS
 SECTIONS A to I-41

*** INPUT, CARD PRINTOUT ***

	1	2	3	4	5	6	7	8			
5	709	216	3 29691	252	3 29691	300	3 29693	337	3 29693	375	3 29697
5	709	400	3 29713	434	3 29771	457	3 29786				
6	710	1	2 045 035	2	4 045 035	1	2 040 035				
3	751	0 TW	0 19	3 2967	2870	99	99				
5	752	0	1 29810	50	1 29777	100	1 29749	150	2 29735	160	2 29712
5	753	164	2 29681	169	2 29674	177	2 29661	179	2 29664	182	2 29674
5	754	187	2 29705	193	3 29730	246	3 29728	284	3 29735	300	3 29736
5	755	339	3 29742	390	3 29763	425	3 29786	450	3 29814		
6	756	1	2 040 035	1	2 045 035	1	2 040 035				
3	800	0 TW	0 19	3 2967	2889	99	99				
5	805	0	1 29810	50	1 29777	100	1 29749	150	2 29735	160	2 29712
5	806	164	2 29681	169	2 29674	177	2 29661	179	2 29664	182	2 29674
5	807	187	2 29705	193	3 29730	246	3 29728	284	3 29735	300	3 29736
5	808	339	3 29742	390	3 29763	425	3 29786	450	3 29814		
6	810	1	2 040 035	1	2 045 035	1	2 040 035				
3	950	0 RD	0 20	3 2968	2896	99	99				10
5	951	0	1 29816	43	1 29785	135	1 29761	159	1 29744	159	2 29730
5	952	164	2 29694	167	2 29675	171	2 29679	172	2 29680	173	2 29664
5	953	177	2 29669	180	2 29678	184	2 29710	185	3 29734	185	3 29746
5	954	260	3 29747	300	3 29749	333	3 29749	390	3 29765	450	3 29829
6	955	1	2 040 035	2	4 045 035	1	2 040 035				
3	974	0.4	0 17	3 2967	2905	99	99				
5	975	0	1 29801	72	1 29769	120	1 29753	150	1 29746	187	2 29725
5	976	191	2 29678	195	2 29685	200	2 29672	205	2 29678	211	2 29710
5	977	222	3 29737	262	3 29739	300	3 29738	346	3 29746	381	3 29754
5	978	423	3 29732	450	3 29795						
5	980	1	2 040 035	2	4 045 035	1	2 040 035				
3	1000	0 APP	0 18	3 2968	2931	1	3				
5	1005	0	1 29805	72	1 29773	120	1 29757	150	1 29748	187	2 29729
5	1006	191	2 29682	195	2 29669	200	2 29676	205	2 29682	211	2 29714
5	1007	213	3 29719	222	3 29741	262	3 29743	300	3 29742	346	3 29750
5	1008	381	3 29758	423	3 29776	450	3 29799				
6	1010	1	2 040 035	1	4 045 035	1	2 040 035				
3	1050	0.1	0 17	3 2972	3500	99	99				
5	1055	0	1 29837	37	1 29794	77	1 29775	113	2 29778	121	2 29730
5	1056	128	2 29714	140	2 29711	150	2 29706	151	2 29714	157	2 29753
5	1057	155	3 29772	198	3 29772	223	3 29764	260	3 29772	297	3 29800
5	1058	301	3 29810	310	3 29869						
6	1060	1	2 040 035	2	6 045 035	1	2 040 035				
3	1100	1	17	3 2975	4065	99	99				
4	1111	750	1350	1650							
5	1115	0	1 29878	37	1 29835	77	1 29816	113	2 29819	121	2 29771
5	1116	128	2 29755	140	2 29752	150	2 29747	151	2 29755	157	2 29794
5	1117	155	3 29813	198	3 29813	223	3 29805	260	3 29813	297	3 29841
5	1118	301	3 29851	310	3 29810						

***** (5) ****

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1120	1	2	040 035	2	6	045 035	1	2 040 035
1150	1+2.3	0	17 3 2978			4625 99 99		
1155		0	1 29901	37	1	29858	77	1 29839 113 2 29842 121 2 29794
1156		128	2 29778	140	2	29775	150	2 29770 151 2 29778 157 2 29817
1157		165	3 29836	198	3	29836	223	3 29823 260 3 29836 297 3 29864
1158		301	3 29874	310	3	29933		
1159	1	2	040 035	2	6	045 035	1	2 040 035
1200	1-14	0	16 1 2980			5187 99 99		
1205		0	1 29941	10	1	29885	13	1 29949 19 1 29815 20 1 29798
1206		27	1 29792	25	1	29793	30	1 29794 31 1 29811 43 1 29832
1207		60	1 29840	77	1	29880	121	1 29891 150 1 29893 181 1 29911
1208		200	1 29901					
1210	1	4	045 040					
1300	20 JK	2	14 1 2980			5187	45	29924 1 0
1305		0	1 29924	0	1	29829	1	1 29829 2 1 29810 3 1 29796
1306		6	1 29798	9	1	29806	19	1 29815 25 1 29809 28 1 29814
1307		29	1 29829	30	1	29829	30	1 29924 0 -9 29924
1310	J	2	040 040					
1400	K APP	5	21 3 2981			5290 1 3		
1405		0	1 29915	80	1	29883	150	1 29872 228 1 29872 264 1 29854
1406		274	2 29838	278	2	29831	280	2 29811 284 2 29807 288 2 29804
1407		292	2 29806	294	2	29811	295	2 29830 300 2 29837 304 3 29847
1408		318	3 29854	363	3	29889	423	3 29894 450 3 29900 536 3 29923
1409		600	3 29933					
1410	1	2	045 035	1	2	050 050	1	2 045 045
1450	1-4	6 0	17 3 2985			6750 99 99		
1451		0	1 29957	25	1	29911	55	1 29901 87 2 29902 92 2 29865
1452		112	2 29848	116	2	29842	118	2 29840 124 2 29848 150 2 29868
1453		171	3 29908	214	3	29910	252	3 29915 281 3 29917 300 3 29918
1454		352	3 29935	434	3	29963		
1455	1	2	045 045	2	5	050 045	1	2 045 045
1500	1	0	17 3 2989			6325 99 99		
1505		0	1 30003	25	1	29957	55	1 29947 87 2 29948 92 2 29911
1506		112	2 29894	116	2	29889	118	2 29886 124 2 29894 150 2 29914
1507		171	3 29954	214	3	29956	252	3 29961 281 3 29963 300 3 29964
1508		352	3 29981	434	3	30009		
1510	1	2	045 045	2	5	050 045	1	2 045 045
1550	1-2	0 0	19 3 2999			7250 99 99		
1552		0	1 30047	67	1	30046	116	1 30039 150 2 30025 156 2 30005
1553		157	2 29986	158	2	29980	162	2 29982 164 2 29980 166 2 29986
1554		157	2 30004	195	2	30013	200	3 30024 243 1 30020 291 3 30021
1555		300	3 30024	341	3	30034	350	3 30058 356 1 30082
1556	1	2	035 035	2	5	050 035	1	2 045 045
1600	"	1	10 3 3008			8150 99 99		
1601		570	1060	1300		2050		

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8							
.....	0.....	0.....	0.....	0.....	0.....	0.....	0.....	0.....							
5 1605	0	1	30187	67	1	30136	116	1	30120	150	2	30115	156	2	30095
5 1606	157	2	30076	158	2	30070	162	2	30072	164	2	30070	166	2	30075
5 1607	167	2	30094	185	2	30103	200	3	30114	243	3	30110	291	3	30111
5 1608	300	3	30113	341	3	30124	350	3	30148	356	3	30172			
6 1610	1	2	035 035	2	5	050 035	1	2	045 045						
3 1700	0	19	3 3015			9110	99	99							
5 1705	0	1	30253	31	1	30209	49	1	30192	118	1	30182	145	1	30182
5 1706	180	1	30182	207	2	30185	217	2	30171	219	2	30147	220	2	30143
5 1707	222	2	30143	224	2	30144	225	2	30160	231	3	30182	279	3	30177
5 1708	300	3	30179	350	3	30198	394	3	30211	412	3	30250			
6 1710	1	2	045 035	1	2	045 045	1	2	045 035						
3 1800	0	18	3 3020			9590	99	99							
5 1805	0	1	30310	22	1	30289	25	1	30288	35	1	30273	45	1	30270
5 1806	130	1	30251	200	1	30241	285	1	30221	287	2	30205	289	2	30199
5 1807	294	2	30199	304	2	30197	308	2	30202	311	3	30235	324	3	30229
5 1808	359	3	30253	383	3	30290	396	3	30321						
6 1810	1	2	035 035	1	5	045 035	1	2	035 035						
3 1900	0	18	3 3019			9690			0 30235	3	0				
5 1905	0	1	30236	0	1	30214	3	1	30205	6	1	30195	10	1	30184
5 1906	21	1	30194	21	1	30234	0	2	9 30236						
6 1910	1	2	050 050												
3 2000	0	18	3 3020			9690									
5 2005	0	1	30310	100	1	30278	200	1	30260	300	1	30252	364	2	30250
5 2006	385	3	30249	400	3	30252	500	3	30315						
3 2100	0	18	3 3019			9736	1	3							
5 2105	0	1	30315	80	1	30267	120	1	30251	200	1	30241	250	1	30242
5 2106	300	1	30235	309	1	30237	320	1	30249	335	1	30259	339	2	30220
5 2107	341	2	30207	345	2	30185	349	2	30185	353	2	30186	354	2	30207
5 2108	350	3	30226	354	3	30234	385	3	30250	403	3	30255	415	3	30261
5 2109	420	3	30295	450	3	30312									
6 2110	1	2	050 040	2	4	050 030	1	2	055 055						
3 2200	0	18	3 3029			10730	99	99							
5 2205	0	1	30404	44	1	30372	100	1	30335	128	2	30319	134	2	30296
5 2206	136	2	30283	139	2	30283	145	2	30294	152	3	30318	200	3	30321
5 2207	300	3	30325	400	3	30326	485	3	30322	487	3	30306	489	3	30304
5 2208	491	3	30306	493	3	30316	501	3	30330	560	3	30404			
6 2210	1	2	035 035	2	4	045 035	1	2	040 035						
3 2300	0	18	3 3044			12405	99	99							
4 2301	450	3	3030	1030	1600										
5 2305	0	1	30561	100	1	30511	200	1	30479	322	2	30450	324	2	30452
5 2306	327	2	30439	331	2	30447	335	2	30449	338	2	30454	339	3	30471
5 2307	390	3	30465	400	3	30480	420	3	30543	431	3	30565			
6 2310	1	2	040 035	1	2	045 045	1	2	045 035						
3 2400	0	14	3 3050			13560	99	99							
5 2405	0	1	30702	72	1	30673	100	1	30654	152	1	30625	200	2	30600

PAGE 1 OF EDITING NOTES FOR: GAP CREEK FINAL RUN A-L 10,00,100,500 YR 1STM-T

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BO FF	WARNING	STATION	9	IS LESS THAN	STATION	8	
I	WARNING	NPR		WRONG			
BO JK	WARNING	STATION	14	IS LESS THAN	STATION	13	
M	WARNING	NPR		WRONG			
BO OP	WARNING	STATION	8	IS LESS THAN	STATION	7	
T	WARNING	HSUBO		IS LESS THAN	GMIN		> GMIN

USGS STEP-BACKWATER PROGRAM - VERSION 77.091 *** PAGE COUNT= 7, DATE= 6/28/77

INPUT SUMMARY FOR: GAP CREEK FINAL RUN A-L 10.50, 100.500 YR 15TM-T

32 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 32 TYPE 3 CARDS

KEPT 32 CROSS SECTIONS FOR EDITING

32 " " VALID FOR PROPERTY COMPUTATIONS

32 " " " " PROFILE " "

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID= A AT DISTANCE= 0 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	OC
2956.0	8	181	1.00	15	15	402	417	35
2956.5	16	510	1.00	17	17	402	418	90
2957.0	25	978	1.00	19	19	401	419	164
2957.5	34	1585	1.00	21	22	400	421	257
2958.0	46	2326	1.00	23	24	399	422	368
2958.5	57	3105	1.00	24	26	398	423	498
2959.0	70	3976	1.00	26	28	398	424	648
2959.5	84	4937	1.00	28	30	397	425	817
2960.0	98	5936	1.00	31	33	396	427	992
2960.5	120	7010	1.06	55	57	378	433	975
2961.0	150	8495	1.27	118	121	321	439	933
2961.5	244	10971	1.68	211	214	234	446	1143
2962.0	376	15453	1.91	325	327	211	537	1663
2962.5	559	22320	1.95	414	416	193	607	2705
2963.0	784	31563	1.75	447	449	175	622	4446
2963.5	1014	43180	1.54	472	474	158	630	6787
2964.0	1255	57733	1.43	492	495	142	634	9501
2964.5	1506	74464	1.35	513	515	125	637	12591
2965.0	1768	93341	1.30	533	535	108	641	16028
2965.5	2039	114348	1.26	553	556	91	645	19795
2966.0	2321	137591	1.23	573	575	75	648	23910
2966.5	2612	163347	1.20	589	592	63	652	28444
2967.0	2910	191203	1.18	605	608	50	656	33282
2967.5	3217	221157	1.17	621	624	38	659	38420
2968.0	3532	253211	1.16	638	640	25	663	43855
2968.5	3854	287722	1.15	652	655	13	665	49654
2969.0	4184	324856	1.14	665	668	7	665	55833

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID= B AT DISTANCE= 510 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	OC
2959.0	17	503	1.00	23	23	187	240	82
2959.5	30	1097	1.00	29	30	185	250	170
2960.0	48	1899	1.00	42	43	183	257	288
2960.5	72	3155	1.00	55	56	181	264	467
2961.0	107	4368	1.00	72	74	179	271	696
2961.5	156	7448	1.00	106	108	177	278	1075
2962.0	219	10394	1.00	149	151	161	310	1497
2962.5	302	15482	1.00	185	187	150	375	2186
2963.0	403	22186	1.00	223	225	139	363	3077
2963.5	526	30752	1.00	265	267	120	394	4195
2964.0	672	39001	1.00	343	345	75	318	5328

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID= B AT DISTANCE= 510 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2964.5	855	53510	1.00	391	393	50	441	7173
2965.0	1059	73289	1.00	417	418	38	455	9580
2965.5	1270	97491	1.00	428	430	35	463	12418
2966.0	1487	124601	1.00	439	441	31	470	15526
2966.5	1709	154558	1.00	450	452	28	478	18895
2967.0	1937	187315	1.00	461	463	25	486	22519
2967.5	2170	222843	1.00	472	474	22	494	26392
2968.0	2409	261121	1.00	483	485	18	502	30510
2968.5	2654	302084	1.00	494	497	15	510	34866
2969.0	2904	345779	1.00	506	508	12	518	39462
2969.5	3159	392205	1.00	517	519	9	525	44298
2970.0	3421	441368	1.00	528	531	5	533	49371
2970.5	3687	493273	1.00	539	542	2	541	54682
2970.8	3850	527595	1.00	543	546	0	543	58147

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID= C AT DISTANCE= 915 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2960.0	20	627	1.00	21	22	221	242	110
2960.5	31	1227	1.00	23	24	220	244	204
2961.0	43	2001	1.00	25	26	219	245	321
2961.5	57	2962	1.00	28	29	219	246	460
2962.0	71	4197	1.00	30	31	218	247	622
2962.5	86	5684	1.00	32	33	217	249	806
2963.0	103	6933	1.00	37	39	212	250	975
2963.5	124	8560	1.00	43	45	208	251	1185
2964.0	147	10598	1.00	49	51	203	252	1439
2964.5	174	13267	1.02	65	67	199	264	1606
2965.0	214	17669	1.10	98	100	184	282	1720
2965.5	272	23675	1.23	133	135	167	300	1987
2966.0	352	31431	1.43	186	188	150	336	2298
2966.5	456	41361	1.60	231	233	138	369	2874
2967.0	593	52901	1.68	275	277	125	400	3717
2967.5	726	68377	1.61	299	301	113	411	5061
2968.0	881	87410	1.51	322	324	100	422	6725
2968.5	1051	107587	1.49	358	360	75	433	8370
2969.0	1238	131861	1.45	388	390	50	438	10431
2969.5	1435	160800	1.38	400	402	43	442	13134
2970.0	1637	192768	1.32	411	414	36	447	16100
2970.5	1846	227969	1.28	422	425	29	451	19345
2971.0	2060	266500	1.24	432	434	21	454	22872
2971.5	2278	307980	1.21	442	444	14	456	26623

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10.50.100.500 YR 1STM-T
 SECID= C AT DISTANCE= 915 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2972.0	2501	352919	1.19	450	453	70	457	30658
2972.5	2728	401108	1.17	457	460	00	457	34944

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10.50.100.500 YR 1STM-T
 SECID= D AT DISTANCE= 1520 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2962.0	19	611	1.00	19	20	57	76	107
2962.5	29	1185	1.00	20	22	56	77	193
2963.0	39	1942	1.00	22	24	56	78	299
2963.5	51	2895	1.00	24	26	55	80	423
2964.0	63	4094	1.00	26	29	55	81	554
2964.5	77	5581	1.02	30	32	53	83	698
2965.0	93	7384	1.04	34	36	51	84	865
2965.5	111	9546	1.06	37	40	48	85	1054
2966.0	131	12444	1.09	44	47	46	90	1225
2966.5	156	15540	1.14	54	56	43	97	1409
2967.0	185	19104	1.19	63	66	41	104	1643
2967.5	218	23258	1.25	72	75	39	110	1932
2968.0	257	28071	1.29	81	84	36	117	2280
2968.5	353	33725	1.80	240	243	34	273	1813
2969.0	474	43641	1.91	243	246	31	274	2716
2969.5	596	56635	1.76	246	250	29	275	3968
2970.0	720	73108	1.56	250	254	26	276	5543
2970.5	845	90630	1.45	255	259	22	277	7260
2971.0	975	110200	1.37	259	263	19	279	9175
2971.5	1105	131771	1.30	263	267	16	278	11262
2972.0	1238	155285	1.25	267	272	12	279	13504
2972.5	1373	179040	1.23	277	281	9	304	15661
2973.0	1515	203594	1.21	295	295	5	295	17820
2973.5	1663	230109	1.20	303	308	2	296	20141
2973.8	1755	247129	1.20	309	316	0	309	21688

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10.50.100.500 YR 1STM-T
 SECID= E AT DISTANCE= 2118 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2965.0	15	487	1.00	15	15	150	164	86
2965.5	22	933	1.00	16	17	149	165	153
2966.0	30	1524	1.00	16	19	149	165	235
2966.5	39	2259	1.00	17	19	149	166	331

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=E T-W AT DISTANCE= 2118 PART 2 OF 2

WS	A	K	ALPHA	B	D	LEW	RFW	QC
2967.0	48	3145	1.00	18	21	148	166	440
2967.5	57	4190	1.00	19	22	148	167	561
2968.0	67	5408	1.00	20	23	148	167	695
2968.5	77	6815	1.00	21	25	147	168	842
2969.0	90	8542	1.04	30	34	147	177	858
2969.5	107	10352	1.13	40	44	147	187	940
2970.0	154	12620	1.67	175	180	146	357	633
2970.5	256	17517	2.21	227	232	146	373	1027
2971.0	377	25820	2.06	256	261	125	380	1807
2971.5	509	38017	1.69	272	277	109	381	3040
2972.0	649	53795	1.43	285	291	97	382	4633
2972.5	794	71241	1.32	295	301	88	383	6430
2973.0	944	91344	1.24	304	310	79	384	8452
2973.5	1098	114096	1.19	314	320	71	384	10680
2974.0	1257	139386	1.15	323	329	62	385	13091
2974.5	1421	166871	1.13	332	339	53	386	15648
2975.0	1590	196859	1.12	341	348	45	387	18396
2975.5	1762	229278	1.11	350	356	38	387	21320
2976.0	1939	264073	1.10	358	365	30	388	24405
2976.5	2120	301241	1.10	366	373	23	389	27650
2977.0	2306	338963	1.09	378	385	15	393	30947
2977.5	2498	379052	1.09	389	396	8	397	34423
2978.0	2695	421540	1.09	400	407	0	400	38080
2978.1	2735	430787	1.08	401	408	0	401	38936

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=PO EF AT DISTANCE= 2118 PART 1 OF 2

WS	A	K	ALPHA	B	D	LEW	RFW	QC
2964.0	1	10	1.00	7	7	10	18	3
2964.5	7	134	1.00	14	15	6	21	29
2965.0	14	407	1.00	15	16	6	21	81
2965.5	22	783	1.00	15	17	6	21	149
2966.0	30	1244	1.00	16	18	6	22	232
2966.5	38	1783	1.00	17	19	5	22	327
2967.0	47	2395	1.00	17	21	5	23	434
2967.5	55	3076	1.00	18	22	5	23	553
2968.0	65	3823	1.00	19	23	5	24	683
2968.5	74	4638	1.00	19	24	5	24	825
2969.0	84	5522	1.00	20	25	5	24	980
2969.5	94	6465	1.00	20	26	5	25	1146
2970.0	104	7466	1.00	21	28	5	25	1321
2970.5	114	8524	1.00	21	29	4	26	1507

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10.50.100.500 YR 1STM-T
 SECID=80 EF AT DISTANCE= 2118 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2971.0	125	9639	1.00	22	30	4	26	1704
2971.5	133	7563	1.00	2	50	4	26	5744
2972.0	131	6743	1.00	-3	58	0	26	0
2972.5	129	6506	1.00	-2	59	0	26	0
2973.0	128	6294	1.00	-2	60	0	26	0
2973.5	126	6106	1.00	-2	61	0	26	0
2974.0	125	5941	1.00	-1	62	0	26	0
2974.5	124	5799	1.00	-1	63	0	26	0
2975.0	123	5677	1.00	0	64	0	26	0
2975.5	123	5575	1.00	0	65	0	26	0
2976.0	123	5491	1.00	0	66	0	26	0
2976.4	122	5439	1.00	0	67	0	26	0

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10.50.100.500 YR 1STM-T
 SECID=F APP AT DISTANCE= 2175 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2966.0	32	1327	1.04	24	25	175	211	205
2966.5	45	2076	1.06	28	30	173	212	312
2967.0	61	3034	1.15	42	44	171	213	390
2967.5	83	4713	1.17	45	47	169	214	589
2968.0	106	6940	1.14	48	50	167	214	833
2968.5	130	9831	1.11	51	53	164	215	1122
2969.0	156	13508	1.08	54	56	162	215	1453
2969.5	222	18040	1.44	196	199	160	356	1117
2970.0	329	25054	1.69	222	225	158	380	1746
2970.5	442	34638	1.64	232	235	155	388	2706
2971.0	561	47128	1.48	242	245	153	395	3981
2971.5	684	62731	1.33	250	253	151	401	5571
2972.0	813	77765	1.28	266	270	138	404	7128
2972.5	952	94998	1.25	294	293	117	407	8735
2973.0	1102	115426	1.24	313	316	97	410	10550
2973.5	1263	139900	1.20	326	330	87	413	12639
2974.0	1428	167084	1.18	337	340	79	416	15378
2974.5	1600	196668	1.16	348	351	71	419	18095
2975.0	1776	228659	1.14	359	362	63	422	20991
2975.5	1958	263068	1.13	369	373	56	425	24064
2976.0	2146	299923	1.12	380	384	47	428	27316
2976.5	2338	339207	1.11	391	395	40	430	30744
2977.0	2536	380967	1.11	402	406	32	433	34351
2977.5	2741	422581	1.10	416	420	24	437	37963
2978.0	2953	466150	1.10	432	436	16	440	41740
2978.5	3173	512414	1.10	448	451	8	445	45732

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=F APP AT DISTANCE= 2176 PART 2 OF 2

WS	A	K	ALPHA	R	P	LEW	RFW	QC
2979.0	3399	566277	1.09	457	461	0	457	50280

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=G TW AT DISTANCE= 2870 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2967.0	5	92	1.00	9	10	171	181	18
2967.5	10	278	1.00	14	14	168	182	51
2968.0	18	603	1.00	18	19	165	183	105
2968.5	28	1238	1.00	20	21	163	184	188
2969.0	39	2199	1.00	22	23	163	185	293
2969.5	50	3404	1.00	23	25	162	185	415
2970.0	62	4649	1.00	25	26	162	186	556
2970.5	75	6077	1.00	26	28	161	187	715
2971.0	88	7643	1.00	28	30	160	188	887
2971.5	103	9269	1.00	31	33	159	189	1064
2972.0	119	11062	1.00	34	37	157	191	1259
2972.5	137	13145	1.00	37	40	154	192	1482
2973.0	163	15586	1.07	105	108	152	257	1111
2973.5	222	19592	1.34	134	137	150	284	1406
2974.0	306	25741	1.59	194	197	132	326	1732
2974.5	414	34363	1.70	232	235	114	346	2408
2975.0	538	46013	1.64	260	263	98	358	3417
2975.5	673	60652	1.55	281	284	89	371	4768
2976.0	819	77914	1.46	302	306	80	383	6333
2976.5	975	97696	1.39	322	325	71	393	8168
2977.0	1140	120591	1.33	338	341	62	401	10300
2977.5	1313	145818	1.29	355	358	54	408	12629
2978.0	1495	173807	1.26	370	374	45	416	15202
2978.5	1684	204531	1.23	385	389	38	423	18008
2979.0	1880	238756	1.20	398	402	30	429	21123
2979.5	2082	275903	1.18	410	414	23	433	24468
2980.0	2290	315790	1.17	422	426	15	439	28018
2980.5	2504	358432	1.15	434	438	8	442	31772
2981.0	2725	403854	1.14	446	450	0	446	35731
2981.4	2904	444072	1.13	450	454	0	450	39407

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=G TW AT DISTANCE= 2889 PART 1 OF 1

WS	A	K	ALPHA	H	P	LEW	HEW	OC
2967.0	5	92	1.00	9	10	171	181	18
2967.5	10	278	1.00	14	14	162	172	51
2968.0	18	608	1.00	18	19	165	183	105
2968.5	28	1238	1.00	20	21	163	184	188
2969.0	39	2199	1.00	22	23	163	185	293
2969.5	50	3404	1.00	23	25	162	185	415
2970.0	62	4649	1.00	25	26	162	186	556
2970.5	75	6077	1.00	26	28	161	187	715
2971.0	88	7643	1.00	28	30	160	188	887
2971.5	103	9269	1.00	31	33	159	189	1064
2972.0	119	11062	1.00	34	37	157	191	1259
2972.5	137	13145	1.00	37	40	154	192	1482
2973.0	163	15586	1.07	105	108	152	257	1111
2973.5	222	19592	1.34	134	137	150	284	1406
2974.0	306	25741	1.59	194	197	132	326	1732
2974.5	414	34363	1.70	232	235	114	366	2408
2975.0	538	46013	1.64	260	263	98	358	3417
2975.5	673	60852	1.53	281	284	89	371	4768
2976.0	819	77914	1.46	302	306	80	383	6333
2976.5	975	97696	1.39	322	325	71	393	8168
2977.0	1140	129591	1.33	336	341	62	401	10300
2977.5	1313	145818	1.29	355	358	54	408	12629
2978.0	1495	173807	1.26	370	374	45	416	15202
2978.5	1684	204531	1.23	385	389	38	423	18008
2979.0	1880	238756	1.20	398	402	30	429	21123
2979.5	2082	275903	1.18	410	414	23	433	24465
2980.0	2290	315796	1.17	422	426	15	438	28018
2980.5	2504	358432	1.15	434	438	8	442	31772
2981.0	2725	403854	1.14	444	450	0	446	35731
2981.4	2904	444072	1.13	450	454	0	450	39407

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=RO RD AT DISTANCE= 2895 PART 1 OF 2

WS	A	K	ALPHA	H	P	LEW	HEW	OC
2968.0	9	224	1.00	14	15	166	160	44
2968.5	17	552	1.00	15	17	165	161	100
2969.0	25	893	1.00	17	19	165	161	171
2969.5	34	1548	1.00	18	20	164	162	259
2970.0	43	2270	1.00	20	22	163	163	362
2970.5	53	3199	1.00	21	24	162	163	481
2971.0	64	4329	1.00	22	25	162	164	615
2971.5	75	5752	1.00	23	27	161	164	770

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=H-0.4 AT DISTANCE= 2896 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2972.0	87	7441	1.00	24	28	160	184	939
2972.5	99	9433	1.00	25	30	160	185	1123
2973.0	112	11209	1.00	26	31	159	185	1322
2973.5	125	13031	1.00	26	31	159	185	1553
2974.0	138	15723	1.00	26	31	159	185	1802
2974.5	151	18269	1.00	27	34	159	185	2009
2975.0	204	21563	1.43	186	194	151	337	1016
2975.5	304	27458	1.93	211	219	143	354	1486
2976.0	415	35697	2.09	236	244	136	372	2170
2976.5	541	46742	1.99	270	279	120	390	3080
2977.0	583	62168	1.75	294	302	100	395	4457
2977.5	836	79614	1.62	318	326	81	399	6044
2978.0	1001	99758	1.52	342	350	62	404	7886
2978.5	1174	122950	1.44	366	374	43	409	10001
2979.0	1363	150375	1.35	377	386	36	413	12669
2979.5	1555	180087	1.29	389	397	29	418	15534
2980.0	1752	212611	1.24	401	409	22	423	18634
2980.5	1955	247929	1.21	412	421	15	428	21959
2981.0	2165	286033	1.18	424	432	8	432	25503
2981.5	2380	326926	1.16	435	444	7	437	29261
2982.0	2599	371991	1.14	442	451	0	442	33513
2982.5	2821	420143	1.12	446	456	0	446	38050
2982.9	3080	460612	1.10	450	460	0	450	41817

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=H-0.4 AT DISTANCE= 2905 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2967.0	1	17	1.00	5	5	193	199	4
2967.5	5	105	1.00	11	11	192	203	20
2968.0	12	330	1.00	15	15	191	204	60
2968.5	19	706	1.00	16	17	190	205	121
2969.0	29	1190	1.00	17	18	190	207	198
2969.5	37	1805	1.00	19	20	190	208	291
2970.0	46	2617	1.00	20	22	189	209	399
2970.5	57	3622	1.00	21	24	189	210	523
2971.0	68	4840	1.00	23	25	188	211	662
2971.5	80	6057	1.00	25	26	188	213	803
2972.0	93	7551	1.00	26	31	187	215	965
2972.5	107	9327	1.00	30	34	187	217	1148
2973.0	125	11666	1.03	42	45	177	219	1210
2973.5	149	14409	1.09	54	57	168	221	1350
2974.0	194	17844	1.32	154	157	158	312	1072

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=H-0.4 AT DISTANCE= 2905 PART 2 OF 2

WS	A	K	ALPHA	R	P	LEW	RFW	QC
2974.5	280	23408	1.70	194	197	147	340	1467
2975.0	387	31056	1.80	234	237	130	364	2062
2975.5	514	41524	1.86	269	273	114	383	2949
2976.0	655	55594	1.70	296	300	99	395	4235
2976.5	810	73100	1.55	323	326	84	407	5846
2977.0	978	92958	1.46	349	352	70	418	7697
2977.5	1157	116099	1.38	368	372	58	427	9914
2978.0	1345	142462	1.32	385	389	47	432	12436
2978.5	1542	171757	1.27	402	406	36	438	15206
2979.0	1748	204013	1.23	419	423	25	444	18220
2979.5	1962	239270	1.21	437	440	13	450	21474
2980.0	2183	279402	1.18	448	452	2	450	25169
2980.1	2228	287808	1.17	450	455	0	450	25935

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=H APP AT DISTANCE= 2931 PART 1 OF 2

WS	A	K	ALPHA	R	P	LEW	RFW	QC
2968.0	6	136	1.00	12	12	192	203	26
2968.5	13	395	1.00	15	15	191	206	71
2969.0	21	813	1.00	16	17	190	207	135
2969.5	29	1381	1.00	18	19	190	207	216
2970.0	38	2102	1.00	19	20	189	208	311
2970.5	48	2990	1.00	20	22	189	209	423
2971.0	59	4058	1.00	22	24	189	210	549
2971.5	70	5286	1.00	23	26	188	211	689
2972.0	82	6667	1.00	26	29	188	213	834
2972.5	96	8700	1.01	28	31	187	215	994
2973.0	110	10990	1.03	32	36	185	218	1137
2973.5	130	13437	1.09	44	48	175	220	1202
2974.0	155	16304	1.19	56	60	166	222	1336
2974.5	209	19798	1.51	161	165	156	317	1066
2975.0	300	25588	1.99	203	206	143	346	1467
2975.5	411	33517	2.13	241	245	127	368	2086
2976.0	541	44795	2.02	275	278	111	384	3031
2976.5	695	59661	1.80	301	305	96	397	4370
2977.0	842	77386	1.63	328	332	81	409	5995
2977.5	1013	97740	1.52	353	357	67	421	7899
2978.0	1194	121558	1.42	371	375	56	428	10191
2978.5	1384	148434	1.35	389	392	45	434	12768
2979.0	1583	178253	1.29	406	410	34	439	15597
2979.5	1790	211036	1.25	423	427	22	445	18672
2980.0	2006	247210	1.22	439	443	11	450	22032

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=H APP AT DISTANCE= 2931 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2980.5	2228	287962	1.19	450	455	0	450	25787

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=I-4.1 AT DISTANCE= 3500 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2972.0	23	663	1.00	27	27	125	152	118
2972.5	37	1375	1.00	30	30	123	153	231
2973.0	52	2320	1.00	32	33	121	153	374
2973.5	69	3552	1.00	34	35	120	154	554
2974.0	86	5114	1.00	36	37	119	155	760
2974.5	104	6966	1.00	37	39	118	156	991
2975.0	123	9122	1.00	39	41	118	157	1248
2975.5	143	11485	1.00	41	45	117	158	1520
2976.0	165	14014	1.00	44	48	116	160	1806
2976.5	188	16905	1.00	55	57	115	228	1969
2977.0	225	20413	1.10	96	99	114	251	1866
2977.5	291	25737	1.29	150	154	113	264	2022
2978.0	383	33852	1.45	204	207	66	271	2471
2978.5	490	45099	1.51	221	225	56	277	3365
2979.0	605	59145	1.50	238	242	45	284	4463
2979.5	728	74384	1.44	254	258	36	290	5812
2980.0	858	91955	1.39	265	269	32	297	7434
2980.5	992	112280	1.32	271	275	28	299	9354
2981.0	1129	134450	1.28	278	281	23	301	11428
2981.5	1269	158914	1.24	283	287	19	302	13707
2982.0	1412	185371	1.21	288	292	15	303	16137
2982.5	1557	213788	1.18	293	297	10	303	18715
2983.0	1705	244136	1.17	298	302	6	304	21431
2983.5	1855	276395	1.15	303	308	2	305	24290
2984.0	2008	311346	1.13	306	311	0	306	27422
2984.5	2151	348656	1.12	306	312	0	306	30798
2985.0	2314	387747	1.10	307	313	0	307	34298
2985.5	2468	428572	1.09	308	315	0	308	37918
2986.0	2622	471386	1.08	309	316	0	309	41652
2986.5	2777	515249	1.08	309	318	0	309	45497
2986.9	2900	551735	1.07	310	319	0	310	48651

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=1 AT DISTANCE= 4095 PART 1 OF 1

WS	A	K	ALPHA	B	D	LEW	REW	OC
2975.0	1	9	1.00	6	6	144	150	2
2975.5	8	122	1.00	23	23	128	151	25
2976.0	20	547	1.00	26	26	126	152	99
2976.5	34	1214	1.00	29	30	124	153	206
2977.0	49	2111	1.00	32	33	121	153	343
2977.5	65	3294	1.00	34	35	120	154	516
2978.0	83	4777	1.00	35	37	119	155	716
2978.5	101	6570	1.00	37	39	119	156	943
2979.0	120	8603	1.00	39	41	118	156	1194
2979.5	139	11019	1.00	40	42	117	157	1466
2980.0	160	13479	1.00	43	46	116	160	1746
2980.5	183	16293	1.00	46	49	115	162	2057
2981.0	216	19633	1.07	88	91	114	246	1856
2981.5	276	24411	1.26	149	152	114	263	1899
2982.0	363	31972	1.42	201	204	69	269	2321
2982.5	468	42620	1.50	218	221	58	276	3171
2983.0	581	56204	1.51	235	238	48	282	4223
2983.5	703	71169	1.46	252	255	37	289	5516
2984.0	831	88243	1.40	263	266	33	296	7092
2984.5	965	108099	1.33	279	274	28	299	8961
2985.0	1102	129859	1.29	277	280	24	301	11001
2985.5	1241	153868	1.25	282	286	20	302	13240
2986.0	1383	179930	1.21	287	291	15	302	15642
2986.5	1528	207958	1.19	292	296	11	303	18190
2987.0	1675	237923	1.17	297	301	7	304	20878
2987.5	1825	269802	1.15	302	307	3	305	23701
2988.0	1977	304117	1.14	305	310	0	305	26764
2988.5	2130	341065	1.12	306	312	0	306	30115
2989.0	2284	379805	1.11	307	313	0	307	33591
2989.5	2437	420288	1.09	308	314	0	308	37187
2990.0	2591	462468	1.08	308	315	0	308	40899
2990.5	2746	506305	1.08	309	317	0	309	44722
2991.0	2900	551765	1.07	310	319	0	310	48654

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=1+2.3 AT DISTANCE= 4625 PART 1 OF 2

WS	A	K	ALPHA	B	D	LEW	REW	OC
2978.5	12	262	1.00	24	25	127	151	51
2978.5	25	787	1.00	27	28	125	152	138
2979.0	40	1546	1.00	30	31	123	153	257
2979.5	55	2547	1.00	33	34	121	154	408
2980.0	72	3841	1.00	34	36	120	154	593

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=I-2.3 AT DISTANCE= 4625 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2980.5	90	5459	1.00	36	38	119	155	804
2981.0	108	7371	1.00	39	39	118	156	1040
2981.5	127	9589	1.00	39	41	117	157	1302
2982.0	147	11963	1.00	42	44	117	158	1575
2982.5	169	14562	1.00	45	47	116	160	1867
2983.0	194	17538	1.01	63	66	115	232	1911
2983.5	235	21236	1.13	105	108	114	255	1888
2984.0	307	27132	1.32	160	169	75	265	2059
2984.5	404	35870	1.47	208	211	64	272	2633
2985.0	512	47687	1.51	225	228	54	279	3567
2985.5	628	62061	1.48	242	245	43	285	4718
2986.0	753	77690	1.43	255	260	35	292	6117
2986.5	884	95896	1.37	266	270	31	297	7808
2987.0	1019	116547	1.31	273	276	27	299	9755
2987.5	1157	139179	1.27	279	282	22	301	11871
2988.0	1298	164045	1.23	284	288	18	302	14182
2988.5	1441	190897	1.20	289	293	14	303	16643
2989.0	1587	219702	1.18	294	298	9	303	19247
2989.5	1735	250434	1.16	299	303	5	304	21990
2990.0	1886	283073	1.15	304	309	1	305	24866
2990.5	2038	318658	1.13	306	311	0	306	28086
2991.0	2191	356327	1.11	306	312	0	306	31488
2991.5	2345	395769	1.10	307	314	0	307	35012
2992.0	2499	436934	1.09	308	315	0	308	38655
2992.5	2653	479781	1.08	309	316	0	309	42412
2993.0	2807	524269	1.07	310	318	0	310	46279
2993.3	2900	551718	1.07	310	319	0	310	48349

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=J-TV AT DISTANCE= 5187 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2980.0	7	156	1.00	10	11	20	30	30
2980.5	12	395	1.00	11	12	20	31	71
2981.0	18	721	1.00	12	13	19	31	124
2981.5	24	1058	1.00	14	16	19	32	177
2982.0	32	1491	1.00	18	20	18	36	244
2982.5	42	2089	1.00	22	24	17	39	332
2983.0	54	2875	1.00	26	28	16	42	445
2983.5	68	3560	1.00	34	37	15	49	550
2984.0	88	4516	1.00	45	48	15	60	697
2984.5	112	6503	1.00	48	52	14	62	961
2985.0	137	8876	1.00	51	55	13	64	1264

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10.50.100.500 YR 1STM-T
 SECID=J-TW AT DISTANCE= 5187 PART 2 OF 2

WS	A	K	ALPHA	H	P	LEW	REW	OC
2985.5	153	11676	1.00	54	57	12	66	1606
2986.0	190	14885	1.00	56	60	12	69	1985
2986.5	219	18519	1.00	59	63	12	71	2399
2987.0	249	22548	1.00	62	66	11	73	2849
2987.5	281	26713	1.00	64	69	11	75	3335
2988.0	313	31237	1.00	67	72	10	77	3857
2988.5	352	31985	1.00	87	92	10	97	4013
2989.0	401	34214	1.00	108	113	9	117	4378
2989.5	466	35605	1.00	145	151	8	153	4729
2990.0	541	44331	1.00	155	160	7	162	5732
2990.5	620	54255	1.00	164	170	6	171	6839
2991.0	705	65297	1.00	174	180	5	179	8053
2991.5	793	78226	1.00	178	184	5	183	9498
2992.0	883	92511	1.00	181	187	4	184	11067
2992.5	974	107807	1.00	183	190	3	185	12724
2993.0	1066	124099	1.00	186	193	2	188	14468
2993.5	1160	141375	1.00	189	196	1	190	16298
2994.0	1255	159623	1.00	192	199	0	192	18211
2994.5	1352	179055	1.00	194	202	0	194	20242
2995.0	1441	199456	1.00	196	204	0	196	22360
2995.5	1548	220758	1.00	198	207	0	198	24556
2996.0	1647	242947	1.00	200	209	0	200	26836
2996.1	1667	247485	1.00	200	209	0	200	27293

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10.50.100.500 YR 1STM-T
 SECID=80 JK AT DISTANCE= 5187 PART 1 OF 2

WS	A	K	ALPHA	H	P	LEW	REW	OC
2980.0	1	15	1.00	4	4	3	7	3
2980.5	4	88	1.00	6	7	2	9	15
2981.0	9	205	1.00	13	14	2	26	35
2981.5	18	501	1.00	26	28	2	29	84
2982.0	31	1230	1.00	27	29	1	28	191
2982.5	45	2188	1.00	28	30	1	29	325
2983.0	59	3230	1.00	30	33	0	30	460
2983.5	74	4619	1.00	30	34	0	30	659
2984.0	89	6163	1.00	30	35	0	30	869
2984.5	104	7842	1.00	30	36	0	30	1098
2985.0	119	9640	1.00	30	37	0	30	1344
2985.5	134	11543	1.00	30	38	0	30	1606
2986.0	149	13540	1.00	30	39	0	30	1883
2986.5	164	15622	1.00	30	40	0	30	2175
2987.0	179	17781	1.00	30	41	0	30	2460

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10, 50, 100, 500 YR ISTM-T
 SECID=90 JK AT DISTANCE= 5187 PART 2 OF 2

MS	A	K	ALPHA	B	P	LEW	REW	QC
2987.5	1940	29010	1.00	30	42	0	30	2798
2988.0	209	22303	1.00	30	43	0	30	3128
2988.5	224	24655	1.00	30	44	0	30	3471
2989.0	239	27060	1.00	30	45	0	30	3826
2989.5	254	29515	1.00	30	46	0	30	4192
2990.0	269	32015	1.00	30	47	0	30	4568
2990.5	284	34558	1.00	30	48	0	30	4956
2991.0	299	37141	1.00	30	49	0	30	5353
2991.5	314	39760	1.00	30	50	0	30	5761
2992.0	329	42413	1.00	30	51	0	30	6179
2992.4	341	32873	1.00	0	82	0	30	0

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10, 50, 100, 500 YR ISTM-T
 SECID=K APP AT DISTANCE= 5290 PART 1 OF 1

MS	A	K	ALPHA	B	P	LEW	REW	QC
2981.0	5	69	1.00	13	13	281	294	16
2981.5	12	291	1.00	15	15	280	294	59
2982.0	19	632	1.00	15	16	279	294	121
2982.5	27	1069	1.00	16	18	279	295	198
2983.0	35	1592	1.00	17	19	278	295	289
2983.5	45	1993	1.00	23	25	276	299	360
2984.0	55	2711	1.00	28	31	273	301	469
2984.5	74	3750	1.02	34	36	270	303	610
2985.0	92	5118	1.05	39	41	266	305	782
2985.5	112	6804	1.08	45	48	262	307	967
2986.0	138	8792	1.14	57	60	252	309	1136
2986.5	169	11237	1.20	69	72	242	311	1374
2987.0	207	14282	1.23	81	83	232	313	1693
2987.5	275	17278	1.62	184	187	131	315	1501
2988.0	376	23300	1.66	217	220	99	316	2171
2988.5	493	31933	1.53	252	255	75	327	3162
2989.0	633	44612	1.36	313	316	62	375	4383
2989.5	807	61271	1.29	378	381	50	428	5904
2990.0	1065	80183	1.26	413	416	37	450	7933
2990.5	1219	102443	1.23	444	447	25	469	10329
2991.0	1448	128013	1.21	475	478	12	487	13044
2991.5	1604	156997	1.19	506	509	0	506	16082
2992.0	1952	192324	1.18	525	528	0	525	19518
2992.5	2219	230644	1.19	549	553	0	549	23237
2993.0	2502	271872	1.20	581	585	0	581	26870
2993.3	2679	294464	1.21	600	605	0	600	29184

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=L-4.6 AT DISTANCE= 5750 PART 1 OF 1

YS	A	K	ALPHA	B	P	LEW	REW	QC
2985.0	8	141	1.00	17	17	110	127	31
2985.5	19	447	1.00	29	30	104	133	90
2986.0	37	1026	1.00	42	42	98	140	200
2986.5	61	1976	1.00	54	54	92	146	370
2987.0	90	3505	1.00	60	60	91	151	626
2987.5	121	5504	1.00	63	64	91	154	947
2988.0	153	7971	1.00	66	67	90	156	1318
2988.5	187	10904	1.00	70	71	89	159	1738
2989.0	223	14299	1.00	73	74	89	162	2206
2989.5	260	18172	1.00	76	78	88	164	2722
2990.0	299	22541	1.00	80	81	87	167	3286
2990.5	353	27754	1.06	126	128	43	169	3252
2991.0	425	34545	1.14	186	188	28	214	3415
2991.5	529	43748	1.26	229	231	23	252	4065
2992.0	661	54484	1.37	286	288	20	306	4876
2992.5	809	67807	1.40	304	306	17	321	6316
2993.0	966	83295	1.40	322	324	15	337	8002
2993.5	1131	100923	1.39	340	342	12	352	9926
2994.0	1305	120719	1.37	357	360	9	367	12094
2994.5	1489	142669	1.35	375	377	7	381	14490
2995.0	1680	166799	1.33	392	394	4	396	17114
2995.5	1881	193144	1.31	409	412	1	411	19966
2996.0	2090	222106	1.29	425	428	0	425	23112
2996.3	2218	240714	1.28	434	437	0	434	25133

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=L-4.6 AT DISTANCE= 6325 PART 1 OF 2

YS	A	K	ALPHA	B	P	LEW	REW	QC
2989.0	1	14	1.00	6	6	115	121	3
2989.5	6	108	1.00	14	15	111	125	24
2990.0	17	360	1.00	27	27	105	132	75
2990.5	33	882	1.00	39	39	99	138	173
2991.0	56	1752	1.00	52	52	93	145	330
2991.5	84	3153	1.00	59	59	91	151	568
2992.0	114	5074	1.00	62	63	91	158	879
2992.5	166	7440	1.00	66	66	90	155	1240
2993.0	180	10282	1.00	69	70	89	158	1650
2993.5	215	13583	1.00	72	74	89	161	2109
2994.0	252	17369	1.00	75	77	88	164	2615
2994.5	291	21628	1.00	79	81	87	166	3169
2995.0	341	26696	1.04	123	126	46	169	3147
2995.5	400	32980	1.11	152	153	31	192	3481

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=L AT DISTANCE= 6325 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2995.0	507	41782	1.24	221	223	23	244	3912
2996.5	633	52093	1.36	282	284	21	303	4619
2997.0	779	64974	1.40	300	302	18	318	6009
2997.5	934	80034	1.41	318	320	15	334	7647
2998.0	1097	97230	1.39	336	339	12	349	9522
2998.5	1270	116599	1.37	354	356	10	364	11643
2999.0	1451	138117	1.35	371	374	7	378	13994
2999.5	1641	161809	1.33	389	391	4	393	16572
3000.0	1840	187709	1.31	406	408	2	408	19379
3000.5	2047	216102	1.30	422	425	0	422	22458
3000.9	2219	240741	1.28	434	437	0	434	25136

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=M-9.0 AT DISTANCE= 7250 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2999.0	8	186	1.00	9	10	157	166	39
2999.5	12	395	1.00	10	11	157	167	79
3000.0	18	658	1.00	11	12	156	167	129
3000.5	23	896	1.00	13	15	156	169	174
3001.0	32	1090	1.00	25	27	155	179	212
3001.5	47	1657	1.00	35	37	153	188	314
3002.0	67	2565	1.00	43	46	152	195	473
3002.5	127	4470	1.30	154	157	150	304	576
3003.0	218	8707	1.30	209	211	116	325	1111
3003.5	331	15450	1.25	241	244	101	341	1969
3004.0	456	25061	1.20	258	261	85	343	3134
3004.5	589	37270	1.19	275	278	70	345	4481
3005.0	730	52503	1.19	285	288	62	347	6068
3005.5	874	70643	1.21	294	297	55	349	7792
3006.0	1023	90308	1.20	302	305	49	351	9767
3006.5	1176	111343	1.17	310	313	42	352	12010
3007.0	1333	134414	1.15	318	321	35	353	14425
3007.5	1494	159503	1.14	325	329	29	354	17008
3008.0	1658	186602	1.13	333	337	22	356	19755
3008.5	1827	215899	1.12	340	344	16	356	22696
3009.0	1999	247307	1.11	347	351	9	356	25817
3009.5	2174	280691	1.10	353	359	3	356	29043
3009.7	2245	294613	1.10	356	361	0	356	30440

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10, 50, 100, 500 YR 1STM-T
 SECID=M AT DISTANCE= 8160 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3008.0	8	186	1.00	9	10	157	166	39
3008.5	12	395	1.00	10	11	157	167	79
3009.0	18	658	1.00	11	12	156	167	129
3009.5	23	896	1.00	13	15	156	169	174
3010.0	32	1090	1.00	25	27	155	179	212
3010.5	47	1657	1.00	35	37	153	188	314
3011.0	67	2565	1.00	43	46	152	195	473
3011.5	128	4484	1.31	157	160	150	307	574
3012.0	220	8787	1.29	210	213	116	326	1125
3012.5	334	15608	1.25	241	244	101	341	1996
3013.0	458	25248	1.20	258	261	85	343	3166
3013.5	592	37492	1.19	275	278	70	345	4515
3014.0	732	52756	1.19	285	288	62	347	6105
3014.5	877	70925	1.20	294	297	55	349	7833
3015.0	1026	90619	1.20	302	305	49	351	9810
3015.5	1179	111681	1.17	310	313	42	352	12056
3016.0	1335	134777	1.15	318	321	35	353	14473
3016.5	1496	159891	1.14	325	329	29	354	17058
3017.0	1661	187014	1.13	333	337	22	356	19807
3017.5	1829	216334	1.12	340	344	16	356	22750
3018.0	2001	247766	1.11	347	351	9	356	25872
3018.5	2176	281173	1.10	353	359	3	356	29150
3018.7	2247	295104	1.10	356	361	0	356	30507

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10, 50, 100, 500 YR 1STM-T
 SECID=N AT DISTANCE= 9110 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3015.0	3	74	1.00	6	6	219	224	15
3015.5	6	190	1.00	6	7	218	225	36
3016.0	10	347	1.00	7	9	218	225	64
3016.5	14	533	1.00	9	11	217	226	97
3017.0	19	786	1.00	11	13	217	228	139
3017.5	25	1046	1.00	15	17	214	229	182
3018.0	42	1542	1.34	72	75	211	303	158
3018.5	116	3422	1.72	218	221	97	316	367
3019.0	239	8151	1.40	265	269	63	329	1074
3019.5	389	16061	1.19	296	299	46	342	2240
3020.0	533	28418	1.06	317	319	40	357	3816
3020.5	697	45938	1.01	339	342	34	374	5632
3021.0	872	66271	1.01	361	364	30	391	7664
3021.5	1056	88218	1.00	370	372	26	406	10099
3022.0	1242	114414	1.00	375	378	23	408	12900

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=N AT DISTANCE= 9110 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3022.5	1431	143434	1.00	381	384	19	400	15719
3023.0	1623	175191	1.00	387	390	16	403	18848
3023.5	1818	209615	1.00	393	396	12	405	22178
3024.0	2016	246649	1.00	398	402	9	407	25706
3024.5	2216	286246	1.00	404	408	6	410	29424
3025.0	2420	328373	1.00	410	413	2	412	33330
3025.3	2543	355408	1.00	412	416	0	412	35817

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=O-TW AT DISTANCE= 9690 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3020.0	3	33	1.00	18	18	288	306	8
3020.5	13	316	1.00	21	22	287	308	59
3021.0	24	841	1.01	22	23	286	309	142
3021.5	36	1597	1.01	23	25	286	309	247
3022.0	48	2578	1.02	25	26	285	310	373
3022.5	63	3808	1.11	42	44	268	310	418
3023.0	90	5633	1.26	67	69	247	325	527
3023.5	134	8407	1.42	107	109	225	333	711
3024.0	194	12763	1.50	136	138	204	340	1079
3024.5	272	18542	1.57	175	178	172	347	1531
3025.0	370	26452	1.61	218	220	137	355	2159
3025.5	487	36948	1.52	248	251	112	360	3139
3026.0	618	49898	1.42	274	276	90	364	4409
3026.5	761	65288	1.35	299	302	67	367	5916
3027.0	917	83252	1.30	325	327	45	370	7665
3027.5	1084	105326	1.24	340	342	34	373	9877
3028.0	1256	131184	1.18	346	349	30	377	12477
3028.5	1430	159628	1.14	353	355	27	390	15274
3029.0	1609	189847	1.12	362	365	21	383	18170
3029.5	1792	223154	1.10	369	372	16	385	21326
3030.0	1978	258903	1.09	377	380	10	387	24662
3030.5	2163	297072	1.08	384	387	5	389	28176
3031.0	2362	337649	1.07	391	394	0	391	31864
3031.5	2558	383127	1.06	393	397	0	393	35983
3032.0	2756	430983	1.05	396	400	0	396	40259
3032.1	2745	440824	1.05	396	400	0	396	41131

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=80 OP AT DISTANCE= 9690 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3019.0	3	35	1.00	9	9	8	17	8
3019.5	9	182	1.00	15	15	6	21	38
3020.0	17	484	1.00	17	17	5	21	95
3020.5	25	099	1.00	18	19	3	21	170
3021.0	35	1417	1.00	20	22	1	21	262
3021.5	45	2055	1.00	21	24	0	21	373
3022.0	55	2836	1.00	21	25	0	21	511
3022.5	66	3687	1.00	21	26	0	21	663
3023.0	76	4597	1.00	21	27	0	21	828
3023.5	86	4448	1.00	10	38	0	21	1408
3023.6	87	3813	1.00	0	49	0	21	0

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=P APP AT DISTANCE= 9736 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3019.0	4	69	1.00	9	9	344	353	15
3019.5	9	230	1.00	10	11	343	353	47
3020.0	14	463	1.00	11	13	342	354	91
3020.5	20	766	1.00	13	14	341	354	146
3021.0	27	1122	1.00	14	16	341	355	210
3021.5	35	1500	1.00	16	19	340	357	296
3022.0	43	1884	1.00	18	21	340	358	376
3022.5	53	2310	1.00	20	23	339	360	483
3023.0	64	2760	1.01	23	26	338	361	598
3023.5	76	3227	1.03	27	30	336	363	720
3024.0	104	3888	1.23	81	85	264	368	597
3024.5	179	5920	1.55	199	202	168	375	776
3025.0	294	10024	1.38	257	261	128	385	1516
3025.5	432	16996	1.16	293	297	110	403	2766
3026.0	584	27827	1.06	316	319	97	413	4378
3026.5	746	42679	1.05	391	334	85	416	6218
3027.0	915	58478	1.04	341	345	75	416	8314
3027.5	1088	76707	1.04	350	354	67	417	10639
3028.0	1265	97149	1.04	359	364	58	418	13170
3028.5	1447	119758	1.05	369	373	50	419	15907
3029.0	1634	144501	1.05	378	382	42	419	18844
3029.5	1825	171356	1.05	387	391	33	420	21979
3030.0	2022	199837	1.06	404	409	25	429	24945
3030.5	2220	228686	1.07	421	426	17	438	28121
3031.0	2443	260902	1.08	434	443	8	446	31511
3031.5	2666	296492	1.08	450	455	0	450	35422

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-
 SECID=0 AT DISTANCE= 10730 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3029.0	4	76	1.00	8	8	135	143	15
3029.5	9	234	1.00	11	12	134	145	43
3030.0	15	506	1.00	14	14	133	147	87
3030.5	23	880	1.01	19	19	132	149	140
3031.0	34	1436	1.05	25	26	130	149	218
3031.5	47	2199	1.05	29	31	129	149	333
3032.0	66	3198	1.26	68	70	126	149	331
3032.5	140	5734	2.16	259	262	117	149	397
3033.0	327	13481	2.05	392	395	109	150	1185
3033.5	527	26888	1.56	405	407	100	150	2728
3034.0	732	46253	1.29	417	419	92	150	4853
3034.5	943	70567	1.15	428	431	85	151	7403
3035.0	1160	97104	1.11	440	442	77	151	10162
3035.5	1383	127355	1.08	451	454	70	151	13197
3036.0	1611	161221	1.07	463	465	62	151	16496
3036.5	1846	198630	1.06	474	477	55	151	20052
3037.0	2086	239531	1.06	486	489	47	151	23858
3037.5	2332	283952	1.05	497	500	40	151	27926
3038.0	2583	331828	1.05	508	511	33	151	32247
3038.5	2839	383097	1.05	519	522	26	151	36808
3039.0	3101	437744	1.05	530	532	19	151	41607
3039.5	3369	495760	1.05	540	543	12	151	46641
3040.0	3642	557142	1.05	551	554	5	151	51909
3040.4	3864	608679	1.05	560	563	0	151	56294

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 SECID=R AT DISTANCE= 12405 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3044.0	0	0	1.00	1	1	327	328	0
3044.5	1	19	1.00	4	5	326	330	4
3045.0	5	98	1.00	12	12	324	336	20
3045.5	12	336	1.00	15	15	323	338	61
3046.0	20	725	1.02	22	23	316	338	107
3046.5	39	1446	1.31	53	54	285	339	166
3047.0	85	2984	1.58	130	131	255	339	310
3047.5	162	6201	1.42	172	174	224	339	748
3048.0	257	11442	1.23	203	205	197	340	1476
3048.5	363	19812	1.09	220	222	181	340	2531
3049.0	477	31265	1.04	238	239	166	340	3762
3049.5	600	44430	1.02	255	257	150	340	5168
3050.0	732	59239	1.02	272	274	134	340	6744
3050.5	872	76248	1.02	289	291	119	340	8511

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10, 50, 100, 500 YR 1STM-T
 SECID=9 AT DISTANCE= 12405 PART 2 OF 2

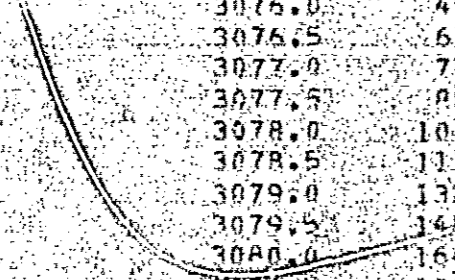
WS	A	K	ALPHA	B	P	LEW	REW	QC
3051.0	1021	95515	1.02	306	309	103	410	10474
3051.5	1172	117916	1.02	319	321	92	411	12732
3052.0	1349	142773	1.01	331	333	82	413	15197
3052.5	1528	169921	1.01	342	345	72	414	17850
3053.0	1693	199376	1.01	354	356	62	416	20690
3053.5	1862	231160	1.01	365	368	52	417	23710
3054.0	2044	265297	1.01	377	380	42	419	26936
3054.5	2240	301608	1.01	389	392	32	421	30337
3055.0	2437	340016	1.01	402	404	22	424	33921
3055.5	2641	380892	1.01	414	417	12	426	37701
3056.0	2851	424276	1.01	427	429	2	429	41682
3056.5	3066	474868	1.00	431	434	0	431	46292

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10, 50, 100, 500 YR 1STM-T
 SECTION AT DISTANCE= 13560 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3060.0	5	135	1.00	8	8	201	208	26
3060.5	9	309	1.00	8	9	200	209	56
3061.0	14	556	1.06	15	16	196	210	78
3061.5	20	1007	1.38	22	23	184	210	113
3062.0	26	1816	1.53	29	30	173	222	205
3062.5	33	3119	1.50	36	37	162	228	366
3063.0	41	5040	1.39	42	44	151	234	627
3063.5	50	8051	1.25	49	51	141	240	1006
3064.0	60	12231	1.15	56	58	130	246	1508
3064.5	71	17981	1.08	63	65	119	251	2139
3065.0	83	25240	1.05	70	72	109	256	2899
3065.5	96	33493	1.03	77	79	99	260	3791
3066.0	110	43186	1.02	84	86	91	263	4836
3066.5	125	54310	1.02	92	94	84	266	6001
3067.0	141	66815	1.01	99	101	76	269	7287
3067.5	158	80794	1.01	107	109	67	272	8693
3068.0	176	94589	1.01	115	117	59	276	10094
3068.5	196	110798	1.01	123	125	52	279	11589
3069.0	217	128693	1.01	132	134	45	282	13443
3069.5	239	148451	1.01	141	143	38	285	15363
3070.0	263	170539	1.01	150	152	32	288	17474
3070.5	289	197305	1.01	159	161	26	290	20031
3070.5	316	229216	1.01	168	170	20	290	22594

CROSS-SECTION PROPERTIES FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR LSTW-T
 SECTION AT DISTANCE= 14375 PART 1 OF 1

WS	N	K	ALPHA	Q	P	LEW	PPW	OC
3069.5	5	20	1.00	7	7	101	109	6
3070.0	7	159	1.00	11	12	100	111	30
3070.5	13	414	1.00	13	13	99	112	73
3071.0	19	766	1.00	14	15	98	112	130
3071.5	27	1212	1.00	15	16	98	113	200
3072.0	34	1754	1.00	15	18	97	113	284
3072.5	44	2413	1.03	23	25	96	247	345
3073.0	57	3262	1.07	29	32	95	249	440
3073.5	74	4399	1.12	40	43	93	255	537
3074.0	104	5827	1.45	105	108	89	263	690
3074.5	181	9302	1.67	185	188	85	271	785
3075.0	277	15634	1.39	200	203	79	279	1566
3075.5	381	24033	1.24	217	220	71	288	2575
3076.0	494	34418	1.17	234	237	63	297	3765
3076.5	615	46795	1.13	251	255	55	306	5127
3077.0	745	61359	1.12	268	271	47	315	6676
3077.5	882	78648	1.11	279	282	39	318	8452
3078.0	1024	97975	1.11	290	293	31	321	10375
3078.5	1172	119344	1.11	301	304	24	324	12454
3079.0	1325	142764	1.11	311	314	17	328	14702
3079.5	1483	168174	1.12	321	325	10	331	17097
3080.0	1646	195571	1.12	331	335	3	334	19642
3080.5	1813	225490	1.12	337	341	0	337	22578
3081.0	1983	257723	1.12	340	345	0	340	25699
3081.5	2154	291838	1.11	344	349	0	344	29024
3082.0	2326	327808	1.11	347	352	0	347	32499
3082.5	2500	365610	1.10	350	356	0	350	36120



PAGE 1 OF PROFILE NOTES FOR: GAP CREEK FINAL RUN A-I 10,50,100,500 YR 1STM-T
 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
C	KU/KD < 0.7 OR > 1.4	ALERTED USER
D	KU/KD < 0.7 OR > 1.4	ALERTED USER
E	1-W: KU/KD < 0.7 OR > 1.4	ALERTED USER
F	APP: KU/KD < 0.7 OR > 1.4	ALERTED USER
G	TW: KU/KD < 0.7 OR > 1.4	ALERTED USER
H	KU/KD < 0.7 OR > 1.4	ALERTED USER
I	WS TOO LOW	ALERTED USER
J	KU/KD < 0.7 OR > 1.4	USED WSMIN = WSC
K	WS TOO LOW	ALERTED USER
L	WS TOO LOW	USED WSMIN = WSC
M	WS TOO LOW	USED WSMIN = WSC
N	WS TOO LOW	USED WSMIN = WSC
O	TW: WS TOO LOW	USED WSMIN = WSC
P	APP: KU/KD < 0.7 OR > 1.4	USED WSMIN = WSC
Q	APP: NSD > BELMX (1)	ALERTED USER
R	WS TOO LOW	CHECKED DRD (2)
S	WS NOT FOUND BETWEEN	USED WSMIN = WSC
	WS = 3032.74 & WS = 3040.60	
T	WS NOT FOUND	USED DEL = 0.25
U	WS TOO LOW	ASSUMED WS = WSC
V	WS NOT FOUND BETWEEN	USED WSMIN = WSC
	WS = 3047.24 & WS = 3056.50	
W	WS NOT FOUND	USED DEL = 0.25
X	WS TOO LOW	ASSUMED WS = WSC
Y	WS NOT FOUND BETWEEN	USED WSMIN = WSC
	WS = 3062.72 & WS = 3070.60	
Z	WS NOT FOUND	USED DEL = 0.25
1	WS TOO LOW	ASSUMED WS = WSC
2	WS TOO LOW	USED WSMIN = WSC

OK TO
I-41

10 YR

WATER-SURFACE PROFILE FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 15TH-T
PAGE 1 OF 3. PROFILE NUMBER: 1. UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	FG	V	FN	ACC	ID
A	AT	0	0	950.	360.	14904.	1.89	213.	526.	2961.95	0.20				2.64	0.38		*IS*
B	AT	510	510	950.	465.	26395.	1.00	134.	379.	2963.26	0.05	1.17	0.0		2.04	0.26	0.003	*XS*
C	AT	915	405	950.	163.	12146.	1.00	201.	257.	2964.31	0.53	1.14	0.37		5.84	0.59	0.001	*XS*
D	AT	1520	605	950.	174.	17824.	1.18	42.	141.	2966.83	0.54	2.52	0.01		5.46	0.49	0.003	*XS*
E	1-W AT	2118	598	950.	104.	9995.	1.11	147.	185.	2969.41	1.45	3.03	0.45		9.17	0.81	0.002	*XS*
===== BEGIN BRIDGE ANALYSIS =====																		
F	0-EF AT	2118		835.	89.	6025.	1.00	5.	25.	2969.41	1.38				9.42	0.73		*R0*
===== EMBANKMENT OVERFLOW (GFS) / LEFT 0. / RIGHT 121. / *R6*																		
G	APP AT	2176	58	950.	539.	64604.	1.51	154.	396.	2970.91	0.07	0.12	0.0		1.76	0.20	0.005	*AS*
N = 0.67 / F = 0.35 / K* = 1.49 / 1110. / 116457. / 1.24 / 96. / 410. / 2973.02 / 0.01 / 2973.04 / 0.86 / 0.08 / *AS*																		
===== END BRIDGE ANALYSIS =====																		
H	1-W AT	2970	694	950.	173.	16244.	1.13	152.	262.	2973.10	0.53	0.33	0.26		5.49	0.52	-0.000	*XS*
I	1-W AT	2889	19	950.	185.	17301.	1.19	151.	268.	2973.20	0.49	0.05	0.0		5.15	0.50	-0.001	*XS*
J	0-EF AT	2896	7	950.	119.	12150.	1.00	159.	185.	2973.23	1.01	0.03	0.52		8.06	0.67	-0.000	*XS*
K	0-EF AT	2905	9	950.	159.	15256.	1.11	145.	222.	2973.55	0.53	0.04	0.0		6.02	0.55	-0.001	*XS*
L	APP AT	2931	26	950.	197.	14260.	1.12	172.	220.	2973.65	0.84	0.11	0.11		6.95	0.60	0.000	*XS*
M	1-W AT	3500	569	950.	179.	15879.	1.00	115.	161.	2976.33	0.44	2.27	0.0		5.30	0.47	0.002	*XS*
N	AT	4095	595	750.	126.	9396.	1.00	118.	157.	2979.15	0.55	2.88	0.05		5.07	0.50	0.005	*XS*

WATER-SURFACE PROFILE FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 PAGE 2 OF 3, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECTION	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WF ELEV	HV	HF	HE	EG	V	FN	ACC	ID
I-2.3	AT 4625	/ 530	/ 750	/ 147	/ 1872	/ 1.00	/ 117	/ 158
2981.48	/ 0.41	/ 2.67	/ 0.0	/ 2982.39	/ 5.11	/ 0.48	/ 0.003	*XS*
J-1.9	AT 5137	/ 552	/ 750	/ 136	/ 8778	/ 1.00	/ 13	/ 64
2984.98	/ 0.48	/ 3.07	/ 0.03	/ 2985.46	/ 5.53	/ 0.60	/ 0.001	*XS*
===== BEGIN BRIDGE ANALYSIS =====								
BRIDGE	AT 5197	/	/ 750	/ 84	/ 6351	/ 1.00	/ 0	/ 30
2984.98	/ 1.25	/	/ ...1...	/ (-.001)	/ 8.96	/ 0.79	/	*90*
===== NO EMBANKMENT CROSS SECTION =====								
K-APP	AT 5297	/ 103	/ 750	/ 125	/ 7766	/ 1.11	/ 257	/ 308
2985.76	/ 0.67	/ 0.85	/ 0.08	/ 2986.38	/ 6.02	/ 0.60	/ 0.000	*AS*
M = 0.07	/ F = 0.16	/ K = 0.12	/	138	/ 8808	/ 1.14	/ 252	/ 308
2986.00	/ 0.53	/	/	2986.53	/ 5.44	/ 0.53	/	*AS*
===== END BRIDGE ANALYSIS =====								
L-4.6	AT 5750	/ 450	/ 750	/ 202	/ 12282	/ 1.00	/ 89	/ 160
2988.71	/ 0.21	/ 2.29	/ 0.0	/ 2988.93	/ 3.72	/ 0.39	/ 0.004	*XS*
M	AT 6325	/ 575	/ 750	/ 140	/ 6923	/ 1.00	/ 90	/ 155
2992.40	/ 0.45	/ 3.60	/ 0.12	/ 2992.85	/ 5.36	/ 0.64	/ 0.000	*XS*
N-9.0	AT 7250	/ 925	/ 750	/ 190	/ 7278	/ 1.30	/ 126	/ 319
3002.85	/ 0.32	/ 10.33	/ 0.0	/ 3003.17	/ 8.95	/ 0.60	/ 0.001	*XS*
N	AT 8160	/ 910	/ 570	/ 168	/ 6197	/ 1.30	/ 134	/ 316
3011.73	/ 0.23	/ 8.79	/ 0.0	/ 3011.97	/ 3.39	/ 0.53	/ 0.002	*XS*
N	AT 9110	/ 950	/ 570	/ 212	/ 7019	/ 1.45	/ 70	/ 326
3018.90	/ 0.16	/ 7.10	/ 0.0	/ 3019.07	/ 2.69	/ 0.51	/ 0.002	*XS*
O-10	AT 9690	/ 580	/ 570	/ 96	/ 6028	/ 1.28	/ 243	/ 327
3023.09	/ 0.70	/ 4.45	/ 0.27	/ 3023.79	/ 5.93	/ 0.72	/ -0.000	*XS*
===== BEGIN BRIDGE ANALYSIS =====								
BRIDGE	AT 9692	/	/ 567	/ 87	/ 7813	/ 1.00	/ 0	/ 21
3023.60	/ 7.66	/	/ ...2...	/ (-.001)	/ 6.52	/ 0.56	/	*90*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 0. / RIGHT 0. / *90* =====								
P-APP	AT 9736	/ 46	/ 570	/ 88	/ 3530	/ 1.12	/ 280	/ 164
3023.78	/ 0.73	/ 0.70	/ 0.01	/ 3024.51	/ 6.47	/ 0.63	/ 0.004	*AS*
M = 0.00	/ F = 0.00	/ K = 0.00	/	156	/ 5214	/ 1.54	/ 178	/ 374
3024.38	/ 0.32	/	/	3024.76	/ 3.65	/ 0.42	/	*AS*
===== END BRIDGE ANALYSIS =====								
Q	AT 10730	/ 944	/ 570	/ 227	/ 8591	/ 2.47	/ 113	/ 500
3032.74	/ 0.24	/ 0.000000	/ 0.000000	/ 3032.98	/ 2.51	/ 0.50	/ 0.000000	*XS*

WATER-SURFACE PROFILE FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
PAGE 3 OF 3, 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*
=====
R AT 12405 / 1675 / 450 / 119 / 4280 / 1.54 / 240 / 395
3047.24 / 0.34 /***** /***** / 3047.58 / 3.77 / 0.67 /***** *XS*

S AT 13560 / 1155 / 450 / 90 / 3867 / 1.46 / 157 / 230
3062.72 / 0.57 /***** /***** / 3063.29 / 5.01 / 0.76 /***** *XS*

T AT 14375 / 815 / 450 / 68 / 3985 / 1.10 / 94 / 252
3073.34 / 0.75 / 10.71 / 0.09 / 3074.09 / 6.64 / 0.73 / -0.000 *XS*

sta 12405

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 7/091 *** PAGE COUNT= 34 DATE= 6/28/77

COMPUTED WSC VALUES FOR: GAP CREEK FINAL RUN A-L 10,503 100,500 YR 15TH-T
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	K	M-9.0	M	N	O-TW	P	S
WSC	2991.81	3002.69	3011.50	3018.71	3022.99	3032.74	3047.24 / 3062.72

SECID	T
WSC	3073.01

T WS NOT FOUND

USED DEL = 0.25

ASSUMED WS = WSC

50 YR

WATER-SURFACE PROFILE FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STH-T
 PAGE 1 OF 3, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECTION	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	REW	TD*
A	AT	0	0	1680	665	26304	1.87	185	614		
		2962.73	0.19			2962.92	2.52	0.37			*IS*
B	AT	510	510	1680	716	42372	1.00	69	424		
		2964.13	0.09	1.29	0.0	2964.21	2.35	0.29	0.005		*XS*
C	AT	915	405	1680	244	20751	1.17	175	292		
		2965.27	0.86	1.30	0.625	2966.14	5.89	0.67	0.003		*XS*
D	AT	1520	605	1680	275	28791	1.47	35	267		
		2968.14	0.85	2.06	0.0	2969.00	5.12	0.56	0.002		*XS*
E	TW AT	2118	598	1680	325	21993	2.19	131	360		
		2970.79	0.91	2.69	0.03	2971.71	5.18	0.67	-0.000		*XS*
===== BEGIN BRIDGE ANALYSIS =====											
F	RD AT	2118		1109	116	8777	1.00	4	26		
		2970.79	1.42	...	...	9.54	0.71				*RD*
===== END BRIDGE ANALYSIS =====											
EMBANKMENT OVERFLOW (CFS) / LEFT 14. / RIGHT 568. / *RG*											
G	APP AT	2176	58	1680	737	69508	1.29	150	402		
		2971.71	0.10	0.11	0.0	2971.81	2.28	0.21	-0.000		*AS*
		2973.71	0.03			2973.76	1.26	0.11			*AS*
===== END BRIDGE ANALYSIS =====											
H	TW AT	2870	694	1680	277	23540	1.52	138	316		
		2973.84	0.87	0.55	0.42	2974.71	6.07	0.65	-0.002		*XS*
I	TW AT	2889	19	1680	333	28030	1.55	127	336		
		2974.15	0.64	0.09	0.0	2974.79	4.98	0.56	-0.002		*XS*
J	RD AT	2896	7	1680	143	16699	1.00	159	185		
		2974.20	2.15	0.04	1.51	2976.34	11.75	0.98	-0.000		*XS*
K	-0.4 AT	2995	9	1680	724	63245	1.63	92	400		
		2976.23	0.14	0.02	0.0	2976.37	2.32	0.25	-0.001		*XS*
L	APP AT	2931	26	1680	597	50342	1.93	105	390		
		2976.20	0.24	0.02	0.05	2976.44	2.81	0.32	-0.001		*XS*
M	-4.1 AT	3500	569	1680	262	23212	1.22	114	261		
		2977.30	0.78	1.37	0.27	2978.09	6.42	0.60	0.001		*XS*
N	AT	4095	595	1360	193	17490	1.01	115	232		
		2980.49	0.76	3.39	0.0	2981.47	7.04	0.62	-0.001		*XS*

Good

WATER-SURFACE PROFILE FOR: GAP CREEK FINAL RUN A-L 10.50+100.500 YR 1STM-T
 PAGE 2 OF 3, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

=====

SECTID	AT	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	
WS ELEV	HV	HF	HE	EG	V	FN	ACC	*10*	
T+2.3	AT	4625	530	1360	237	21359	1.13	114	256
2983.52		0.58	2.62	0.0	2984.09	5.74	0.52	-0.003	*XS*

J-TW	AT	5187	562	1360	209	17174	1.00	12	70
2986.32		0.66	2.84	0.04	2986.95	5.52	0.61	0.003	*YS*

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

B1 JK	AT	5187		1360	112	9729	1.00	0	30
2986.32		2.29		1.1	(-0.001)	12.14	0.93		*R0*

NO EMBANKMENT CROSS SECTION

K APP	AT	5290	103	1360	207	14362	1.23	232	313
2987.01		0.82	0.77	0.08	2987.83	6.55	0.52	-0.000	*AS*

M = 0.66 / E = 0.13 / K* = 0.95 / 993. / 79054. / 1.26 / 33. / 449.
 2989.97 / 0.04 / 2990.01 / 1.37 / 0.15 / *AS*

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

L-4.6	AT	5750	460	1360	326	25267	1.02	50	148
2990.28		0.28	0.43	0.12	2990.56	4.17	0.37	0.000	*XS*

L	AT	6325	575	1360	207	12779	1.00	89	160
2991.38		0.67	3.29	0.20	2994.06	6.57	0.68	0.009	*XS*

M-9.0	AT	7250	925	1360	306	13764	1.27	104	341
3003.39		0.39	9.73	0.0	3003.79	4.46	0.63	0.003	*XS*

N	AT	8160	910	1060	262	11049	1.28	110	333
3012.19		0.33	8.73	0.0	3012.52	4.05	0.59	0.003	*YS*

U	AT	9110	950	1060	343	13686	1.23	47	339
3019.37		0.18	7.03	0.0	3019.56	3.09	0.49	0.006	*XS*

Q-TW	AT	9590	580	1060	189	12385	1.49	206	300
3023.96		0.73	*****	*****	3024.69	5.59	0.71	*****	*YS*

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

R0 OP	AT	9690		803	87	3813	1.00	0	21
3023.60		1.33		3.3	(-0.001)	9.24	0.80		*R0*

EMBANKMENT OVERFLOW (CFS) / LEFT = 324. / RIGHT = 43. / *R0*

P APP	AT	9736	45	1060	231	7659	1.48	149	341
3024.74		0.49	0.54	0.0	3025.23	4.59	0.54	-0.006	*AS*

M = **** / E = **** / K* = **** / 577. / 27232. / 1.06 / 98. / 413.
 3025.98 / 0.06 / 0 / 3026.03 / 1.84 / 0.25 / *AS*

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

O	AT	10730	994	1060	329	13544	2.05	103	501
3033.00		0.33	*****	*****	3033.33	3.23	0.48	*****	*XS*

WATER-SURFACE PROFILE FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
PAGE 3 OF 3. PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LPW	PEW
WS ELEV	HV	HF	HF	FG	V	FN	ACC	ID	
R	AT	12405	1675	830.	189.	7521.	1.36	215.	398.
		3047.65	0.41	14.69	0.04	3048.06	4.40	0.71	0.001
S	AT	13560	1155	830.	145.	7186.	1.28	143.	238.
		3063.37	0.65	*****	*****	3064.03	5.73	0.75	*****
T	AT	14375	815	830.	200.	10419.	1.61	85.	272.
		3074.60	0.43	*****	*****	3075.03	4.15	0.54	*****

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.091 *** PAGE COUNT= 39, DATE= 6/28/77

COMPUTED WSC VALUES FOR: GAP CREEK FINAL RUN A-L 10, 50, 100, 500 YR. 1STM-T
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECTID	M-9.0	M	N	O-TV	O	R	S	T
WSC	3003.18	3011.96	3019.03	3023.96	3033.00	3047.62	3053.37	3074.60

PAGE 1 OF PROFILE NOTES FOR: GAP CREEK FINAL RUN A-I, 10, 50, 100, 500 YR 1STM-T
 PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

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

B1	KU/KD < 0.7 OR > 1.4	ALERTED USER
C1	KU/KD < 0.7 OR > 1.4	ALERTED USER
D1	KU/KD < 0.7 OR > 1.4	ALERTED USER
F	APPI KU/KD < 0.7 OR > 1.4	ALERTED USER
G	TW KU/KD < 0.7 OR > 1.4	ALERTED USER
H	PD KU/KD < 0.7 OR > 1.4	ALERTED USER
H-0.4	KU/KD < 0.7 OR > 1.4	ALERTED USER
T-4.1	KU/KD < 0.7 OR > 1.4	ALERTED USER
T	KU/KD < 0.7 OR > 1.4	ALERTED USER
L-4.6	KU/KD < 0.7 OR > 1.4	ALERTED USER
L	KU/KD < 0.7 OR > 1.4	ALERTED USER
M-9.0	WS TOO LOW	USED WSMIN = WSC
M	WS TOO LOW	USED WSMIN = WSC
N	WS TOO LOW	USED WSMIN = WSC
O-TW	WS TOO LOW	USED WSMIN = WSC
O-TW	WS NOT FOUND BETWEEN	USED WSMIN = WSC
	WS = 3024.19 & WS = 3032.10	
O-TW	WS NOT FOUND	USED DEL = 0.25
O	WS TOO LOW	ASSUMED WS = WSC
O	WS NOT FOUND BETWEEN	USED WSMIN = WSC
	WS = 3033.12 & WS = 3040.40	
O	WS NOT FOUND	USED DEL = 0.25
R	WS TOO LOW	ASSUMED WS = WSC
S	KU/KD < 0.7 OR > 1.4	USED WSMIN = WSC
S	WS TOO LOW	ALERTED USER
S	WS NOT FOUND BETWEEN	USED WSMIN = WSC
	WS = 3053.52 & WS = 3070.60	
S	WS NOT FOUND	USED DEL = 0.25
T	WS TOO LOW	ASSUMED WS = WSC
		USED WSMIN = WSC

WS NOT FOUND BETWEEN

WS = 3074.75 WS = 3082.50

USED DEL = 0.25
ASSUMED WS = WSC

WS NOT FOUND

WATER-SURFACE PROFILE FOR: GAP CREEK FINAL RUN A-L 10.50.100.500 YR 1STM-T
 PAGE 1 OF 3. PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW						
WS	FLEV	HV	HF	HE	FG	V	FN	ACC	*ID*						
A	AT	0	0	2010.	784.	31563.	1.75	175.	622.						
2963.00	/	6.13	/	2963.18	/	2.56	/	0.36	*IS*						
B	AT	510	510	2010.	813.	50104.	1.00	55.	436.						
2964.39	/	0.09	/	1.30	/	0.0	/	2964.49	/	2.47	/	0.30	/	0.004	*XS*
C	AT	915	405	2010.	279.	24370.	1.25	165.	304.						
2965.55	/	1.01	/	1.34	/	0.73	/	2965.56	/	7.20	/	0.71	/	0.003	*XS*
D	AT	1520	605	2010.	373.	35165.	1.84	33.	274.						
2968.58	/	0.83	/	2.85	/	0.0	/	2969.41	/	5.39	/	0.55	/	-0.001	*XS*
E	T-W AT	2118	598	2010.	403.	27978.	1.99	122.	381.						
2971.10	/	0.77	/	2.46	/	0.0	/	2971.87	/	4.99	/	0.63	/	-0.001	*XS*
===== BEGIN BRIDGE ANALYSIS =====															
F	OFF AT	2118		1200.	123.	9446.	1.00	4.	26.						
2971.10	/	1.49	/	...	/	(-0.01)	/	9.79	/	0.71	/				*R0*
===== END BRIDGE ANALYSIS =====															
EMBANKMENT OVERFLOW (CFS) / LEFT 30. / RIGHT 763. / *R0*															
F	APP AT	2176	58	2010.	773.	73350.	1.28	144.	403.						
2971.85	/	0.13	/	0.11	/	0.0	/	2971.99	/	2.60	/	0.24	/	0.002	*AS*
M = 0.59 / E = 0.78 / K* = 1.32 / 1401. / 162569. / 1.18 / R0. / 415. / 2973.92 / 0.04 / 2973.96 / 1.43 / 0.12 / *AS*															
G	TW AT	2870	594	2010.	324.	27037.	1.63	129.	332.						
2974.09	/	0.97	/	0.64	/	0.47	/	2975.06	/	6.21	/	0.69	/	-0.002	*XS*
H	TW AT	2889	19	2010.	427.	35505.	1.70	112.	348.						
2974.56	/	0.58	/	0.08	/	0.0	/	2975.14	/	4.71	/	0.53	/	-0.003	*XS*
I	R0 AT	2896	7	2010.	154.	18786.	1.00	156.	185.						
2974.80	/	2.67	/	0.04	/	2.08	/	2977.26	/	13.07	/	0.95	/	-0.000	*XS*
J	R0.4 AT	2905	9	2010.	1044.	101780.	1.43	65.	423.						
2977.20	/	0.08	/	0.02	/	0.0	/	2977.28	/	1.92	/	0.20	/	-0.000	*XS*
K	APP AT	2931	25	2010.	910.	85244.	1.58	75.	414.						
2977.20	/	0.12	/	0.01	/	0.02	/	2977.32	/	2.21	/	0.20	/	0.007	*XS*
L	R0.1 AT	3500	569	2010.	340.	29959.	1.38	71.	268.						
2977.79	/	0.75	/	0.90	/	0.32	/	2978.54	/	5.91	/	0.58	/	-0.001	*XS*
M	AT	4095	595	1850.	219.	19906.	1.08	114.	249.						
2981.04	/	0.95	/	3.34	/	0.10	/	2981.99	/	7.52	/	0.67	/	0.008	*XS*

WATER-SURFACE PROFILE FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
 PAGE 2 OF 3, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT	WS ELEV	LV	HF	HE	EG	V	FM	ACC	REW	ID
I+2.3	AT	4625	530	1650	313	27650	1.33	74	266		
		2984.04	0.58	2.62	0.0	2984.61	5.28	0.51	0.002	*XS*	
J-TW	AT	5187	562	1650	231	20032	1.00	12	71		
		2986.69	0.80	2.76	0.11	2987.49	7.15	0.64	0.003	*XS*	
===== BEGIN BRIDGE ANALYSIS =====											
RO JK	AT	5187		1650	120	10739	1.00	0	30		
		2986.69	2.94	...	1.001	13.75	1.02			*90*	
----- NO EMBANKMENT CROSS SECTION -----											
K APP	AT	5290	103	1650	265	16688	1.61	135	314		
		2987.44	0.97	0.84	0.09	2988.41	6.23	0.65	-0.002	*AS*	
M		2991.11	0.02			2991.13	1.10	0.11		*AS*	
===== END BRIDGE ANALYSIS =====											
L-4.6	AT	5750	460	1650	474	38844	1.20	24	233		
		2991.25	0.23	0.24	0.10	2991.47	3.48	0.31	0.000	*XS*	
L	AT	6325	575	1650	228	14843	1.00	89	162		
		2993.67	0.81	2.72	0.29	2994.49	7.24	0.72	0.005	*XS*	
M-9.0	AT	7250	925	1650	364	17784	1.24	97	342		
		3003.63	0.40	2.54	0.0	3004.03	4.53	0.62	0.000	*XS*	
M	AT	8160	910	1300	291	12819	1.27	106	338		
		3012.32	0.39	8.68	0.0	3012.71	4.47	0.64	-0.000	*XS*	
N	AT	9110	950	1300	404	17780	1.16	45	344		
		3019.58	0.19	7.04	0.0	3019.77	3.22	0.49	0.009	*XS*	
O-TW	AT	9690	540	1300	222	14795	1.52	194	343		
		3024.19	0.81	*****	*****	3025.01	5.86	0.75	*****	*XS*	
===== BEGIN BRIDGE ANALYSIS =====											
RO OP	AT	9690		1300	87	3813	1.00	0	21		
		3023.60	1.36	...	1.001	9.36	0.81			*90*	
----- EMBANKMENT OVERFLOW (CFS) / LEFT 393 / RIGHT 79 / -----											
P APP	AT	9736	46	1300	329	11508	1.32	119	390		
		3025.13	0.32	0.46	0.0	3025.46	3.95	0.44	-0.007	*AS*	
M		3026.25	0.06			3026.32	1.95	0.26		*AS*	
===== END BRIDGE ANALYSIS =====											
O	AT	10730	994	1300	375	16238	1.90	107	502		
		3033.12	0.35	*****	*****	3033.49	3.46	0.51	*****	*XS*	

WATER-SURFACE PROFILE FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1STM-T
PAGE 3 OF 3, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	MS ELEV	HV	HF	HE	EG	V	FN	ACC	TD
R	AT	12405	1675	1030.	226.	9488.	1.30	203.	399.	3047.85	0.42	14.75	0.03	3043.27	4.56	0.71	0.000	*XS*
S	AT	13560	1155	1030.	159.	8936.	1.22	138.	241.	3063.62	0.70	*****	*****	3064.32	4.08	0.79	*****	*XS*
T	AT	14375	815	1030.	229.	12251.	1.52	82.	275.	3074.75	0.48	*****	*****	3075.23	4.50	0.58	*****	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.091 *** PAGE COUNT= 44. DATE= 6/28/77

COMPUTED WSC VALUES FOR: GAP CREEK FINAL RUN A-L 10, 50, 100, 500 YR 1STM-T
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECID	M-9.0	N	O-TW	Q	R	S	T
WSC	3003.36	3012.13	3019.17	3024.19	3033.12	3047.77	3063.62 3074.75

PAGE 1 OF PROFILE NOTES FOR: GAP CREEK FINAL RUN A-L 10.50.100.500 YR 1STM-T
 PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

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

B:	KU/KD < 0.7 OR > 1.4	:			
C:	KU/KD < 0.7 OR > 1.4	:			ALERTED USER
D:	KU/KD < 0.7 OR > 1.4	:			ALERTED USER
F APP:	KU/KD < 0.7 OR > 1.4	:			ALERTED USER
G TW:	KU/KD < 0.7 OR > 1.4	:			ALERTED USER
BO PD:	KU/KD < 0.7 OR > 1.4	:			ALERTED USER
H-0.4:	KU/KD < 0.7 OR > 1.4	:			ALERTED USER
I-4.1:	KU/KD < 0.7 OR > 1.4	:			ALERTED USER
I	: KU/KD < 0.7 OR > 1.4	:			ALERTED USER
I+2.3:	KU/KD < 0.7 OR > 1.4	:			ALERTED USER
J-TW:	KU/KD < 0.7 OR > 1.4	:			ALERTED USER
K APP:	HIN TOO LOW	:			ALERTED USER
K APP:	KU/KD < 0.7 OR > 1.4	:			USED HIN = WSO+0.01
L-4.6:	WS TOO LOW	:			ALERTED USER
L-4.6:	WS NOT FOUND BETWEEN	:			USED WSMIN = WSO
		:	WS = 2984.20 & WS = 2996.30		
L-4.6:	WS NOT FOUND	:			USED DEL = 0.25
L	: WS TOO LOW	:			ASSUMED WS = WSO
L	: WS NOT FOUND BETWEEN	:			USED WSMIN = WSO
		:	WS = 2989.80 & WS = 3000.00		
L	: WS NOT FOUND	:			USED DEL = 0.25
M-3.0:	WS TOO LOW	:			ASSUMED WS = WSO
M-9.0:	WS NOT FOUND BETWEEN	:			USED WSMIN = WSO
		:	WS = 2998.20 & WS = 3004.70		
M-9.0:	WS NOT FOUND	:			USED DEL = 0.25
M	: WS TOO LOW	:			ASSUMED WS = WSO
M	: WS NOT FOUND BETWEEN	:			USED WSMIN = WSO
		:	WS = 3012.67 & WS = 3018.70		
M	: WS NOT FOUND	:			USED DEL = 0.25
N	: WS TOO LOW	:			ASSUMED WS = WSO

N	: KU/KD < 0.7 OR > 1.4		USED WSMIN = WSC
O-TW	: FROM FAILURE		ALERTED USER
		: WS = 3020.25 & FR = 73.96:	USED HIGHER WS
O-TW	: KU/KD < 0.7 OR > 1.4		ALERTED USER
O-APPT	: KU/KD < 0.7 OR > 1.4		ALERTED USER
P-APPT	: MAY ORD < QT (3)		CHECKED ORD
Q	: WS TOO LOW		USED WSMIN = WSC
Q	: WS NOT FOUND BETWEEN		USED DEL = 0.25
		: WS = 3033.40 & WS = 3040.40:	ASSUMED WS = WSC
Q	: WS NOT FOUND		USED WSMIN = WSC
R	: WS TOO LOW		ALERTED USER
R	: KU/KD < 0.7 OR > 1.4		USED WSMIN = WSC
S	: WS TOO LOW		USED WSMIN = WSC
S	: WS NOT FOUND BETWEEN		USED DEL = 0.25
		: WS = 3064.16 & WS = 3070.60:	ASSUMED WS = WSC
S	: WS NOT FOUND		USED WSMIN = WSC
T	: WS TOO LOW		USED DEL = 0.25
T	: WS NOT FOUND BETWEEN		ASSUMED WS = WSC
		: WS = 3075.11 & WS = 3082.50:	USED DEL = 0.25
T	: WS NOT FOUND		ASSUMED WS = WSC

7004R

WATER-SURFACE PROFILE FOR: GAP CREEK FINAL RUN A-L 10,50,100,500 YR 1ST-T
 PAGE 1 OF 3, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECTION	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	RFW
WS ELEV	HW	HF	HE	EG	V	FN	ACC	#ID#	
A	AT	0	0	3080.	1100.	48163.	1.50	152.	631.
2963.68	0.18			2963.85	2.50	0.36		#IS*	
P	AT	510	510	3080.	1085.	76130.	1.00	38.	456.
2965.06	0.13	1.32	0.0	2965.19	2.84	0.31	0.005	#XS*	
C	AT	915	405	3080.	395.	35641.	1.51	145.	351.
2966.22	1.43	1.42	1.04	2967.65	7.80	0.81	0.002	#XS*	
D	AT	1520	605	3080.	633.	61338.	1.70	28.	275.
2969.65	0.63	2.63	0.0	2970.27	4.87	0.50	-0.000	#XS*	
E	T-W AT	2118	598	3080.	564.	44014.	1.56	103.	382.
2971.70	0.73	2.10	0.05	2972.43	5.46	0.57	0.000	#XS*	
===== BEGIN BRIDGE ANALYSIS =====									
B	O FF AT	2118		1413.	123.	6629.	1.000	0.	26.
2971.70	1.91					11.07	0.87	#BO*	
===== END BRIDGE ANALYSIS =====									
F BRANKMENT OVERFLOW (CFS) / LEFT 148. / RIGHT 1569. / #BO*									
F	APP AT	2176	58	3080.	905.	89045.	1.26	124.	406.
2972.34	0.23	0.14	0.0	2972.56	3.40	0.31	-0.001	#AS*	
M	=	0.49	F =	0.57	K ² =	1.11	1643.	204440.	1.15
2974.83	0.06			2974.69	1.87	0.15		#AS*	
G	TW AT	2870	594	3080.	520.	44215.	1.65	99.	357.
2974.93	0.91	0.73	0.42	2975.84	5.93	0.66	-0.002	#XS*	
H	TW AT	2889	19	3080.	614.	54066.	1.58	93.	365.
2975.29	0.62	0.08	0.0	2975.91	5.02	0.55	-0.003	#XS*	
I	RD AT	2898	7	3080.	269.	25246.	1.81	146.	348.
2975.33	3.69	0.05	3.05	2977.02	11.43	1.10	-0.000	#XS*	
J	-0.4 AT	2905	9	3080.	1738.	202385.	1.24	25.	444.
2978.98	0.05	0.02	0.0	2979.04	1.77	0.14	-0.000	#XS*	
K	APP AT	2931	26	3080.	1573.	176743.	1.20	34.	439.
2978.98	0.08	0.01	0.01	2979.05	1.06	0.16	0.001	#XS*	
L	-4.1 AT	3500	569	3080.	659.	65896.	1.47	41.	287.
2979.23	0.50	0.46	0.21	2979.72	4.67	0.46	-0.003	#XS*	
M	AT	4095	595	0.	205.	18689.	1.04	115.	240.
2980.23	0.0	1.15	0.0	2980.87	0.0	0.0	0.001	#XS*	

Card 100
 0.000000

WATER-SURFACE PROFILE FOR: GAP CREEK FINAL RUN A-L 10.50:100,500 YR 1STM-T
 PAGE 2 OF 3, PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

SECID	AT	MS ELEV	HW	HF	HE	EA	V	FN	LEW	REW	ID
I-2.3	AT	4625	530	0.	103.	6847.	1.00	119.	156.		
		2980.87	0.0	0.0	0.0	2980.87	0.0	0.0	0.0		*XS*
J-2.4	AT	5187	562	0.	16.	629.	1.00	19.	31.		
		2980.87	0.0	0.0	0.0	2980.87	0.0	0.0	0.0		*XS*
===== BEGIN BRIDGE ANALYSIS =====											
BO JK	AT	5187			5.	119.	1.00	2.	12.		
		2980.87	0.0	...	1... (-.001)	0	0.0	0.0			*R0*
----- NO EMBANKMENT CROSS SECTION -----											
K APP	AT	5290	103	0.	3.	41.	1.00	282.	293.		
		2980.88	0.0	0.0	0.02	2980.88	0.0	0.0	-0.011		*AS*
		M = 0.0	E = 1.00	K* = 0.01	3.	41.	1.00	282.	293.		
		2980.88	0.0			2980.88	0.0	0.0			*AS*
===== END BRIDGE ANALYSIS =====											
L-4.6	AT	5750	460	0.	0.	2.	1.00	116.	120.		
		2984.20	0.0	*****	*****	2984.20	0.0	0.0	*****		*XS*
L	AT	6325	575	0.	0.	2.	1.00	116.	119.		
		2986.80	0.0	*****	*****	2986.80	0.0	0.0	*****		*XS*
M-9.0	AT	7250	925	0.	1.	4.	1.00	158.	165.		
		2998.20	0.0	*****	*****	2998.20	0.0	0.0	*****		*XS*
N	AT	8160	910	2050.	350.	16734.	1.24	99.	342.		
		3012.57	0.66	*****	*****	3013.23	5.86	0.81	*****		*XS*
N	AT	9110	950	2050.	585.	33466.	1.04	38.	362.		
		3020.16	0.20	7.13	0.0	3020.35	3.50	0.45	0.004		*XS*
O-TW	AT	9690	580	2050.	221.	14740.	1.52	104.	343.		
		3024.14	2.03	4.94	0.92	3026.22	0.29	1.18	0.001		*XS*
===== BEGIN BRIDGE ANALYSIS =====											
BO OP	AT	9690			87.	3813.	1.00	0.	21.		
		3023.60	1.77	...	3... (-.001)	10.65	0.92				*R0*
----- EMBANKMENT OVERFLOW (CFS) / LEFT 935. / RIGHT 177. / -----											
P APP	AT	9736	46	2050.	719.	40178.	1.05	87.	415.		
		3026.42	0.13	0.33	0.0	3026.55	2.85	0.37	0.000		*AS*
		M = ****	E = ****	K* = ****	363.	53438.	1.04	78.	416.		
		3026.85	0.09			3026.94	2.37	0.29			*AS*
===== END BRIDGE ANALYSIS =====											
Q	AT	10730	994	2050.	486.	23627.	1.64	102.	504.		
		3033.40	0.45	*****	*****	3033.85	0.422	0.58	*****		*XS*

WATER-SURFACE PROFILE FOR: GAP CREEK FINAL RUN A-L 10, 50, 100, 500 YR 1STM-T
PAGE 3 OF 3, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LFW	RFW	WS ELEV	HV	HF	HE	EA	V	FN	ACC	*TD*
4	AT	12405	1675	1600.	316.	15866.	1.13	188.	401.	3048.29	0.45	14.28	0.0	3048.74	5.06	0.71	0.001	*XS*
S	AT	13560	1155	1600.	230.	13915.	1.12	126.	247.	3064.16	0.84	*****	*****	3065.01	6.95	0.87	*****	*XS*
T	AT	14375	815	1600.	299.	17273.	1.35	77.	281.	3075.11	0.60	*****	*****	3075.71	5.36	0.71	*****	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.091 *** PAGE COUNT = 49, DATE = 6/28/77

COMPUTED WSC VALUES FOR: GAP CREEK FINAL RUN, A-L 10, 50, 100, 500 YR 1STM-T
PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECTID	L-4.6	L	M-9.0	M	N	O	P	S
WSC	2984.20	2988.90	2998.20	3012.57	3019.52	3033.40	3048.15	3064.16

SECTID	T
WSC	3075.11

ALL FLOODS I 41-K-1

USGS STEP-BACKWATER PROGRAM - VERSION 77.182 *** PAGE COUNT= 35 DATE= 7/21/77

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	GAP CREEK 1-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD 30	4	01	05	12		
2	2	297633	297730	297770	297923			
3	1050	1-4.1	1	17	3	2972	3500	99 99
4	1051	950	1600	2010	3090			
5	1055	0	1	29837	37	1	29794	77
5	1056	128	2	29714	140	2	29711	150
5	1057	165	3	29772	198	3	29772	223
5	1050	301	3	29810	310	3	29869	260
6	1060	1	2	040 035	2	6	045 035	1
3	1100	1	17	3	2975	4095	99 99	
4	1111	750	1360	1650	2560			
5	1115	0	1	29878	37	1	29835	77
5	1118	128	2	29755	140	2	29752	150
5	1117	165	3	29813	198	3	29813	223
5	1115	301	3	29851	310	3	29910	260
6	1120	1	2	040 035	2	6	045 035	1
3	1150	1-2.3	0	17	3	2975	4625	99 99
5	1155	0	1	29901	37	1	29858	77
5	1156	128	2	29778	140	2	29775	150
5	1157	165	3	29836	198	3	29836	223
5	1154	301	3	29874	310	3	29933	260
6	1159	1	2	040 035	2	6	045 035	1
3	1200	3-TW	0	15	1	2980	5187	99 99
5	1205	0	1	29941	10	1	29885	13
5	1206	22	1	29792	25	1	29793	30
5	1207	60	1	29840	77	1	29880	121
5	1208	200	1	29861				150
5	1215	1	4	045 040				181
4	1300	90	14	1	2980	5187	45	29924
5	1305	0	1	29924	0	1	29829	1
5	1306	6	1	29798	9	1	29805	19
5	1307	20	1	29829	30	1	29824	25
6	1310	1	2	040 040				29
3	1400	200	5	21	3	2981	5291	1
5	1403	0	1	29915	00	1	29823	150
5	1406	274	2	29838	279	2	29831	288
5	1407	292	2	29806	294	2	29811	295
5	1408	318	3	29884	353	3	29889	423
5	1409	530	3	29933				450
6	1415	1	2	045 035	1	2	050 050	1
3	1450	2-1	0	22	3	2984	5753	99 99
5	1451	-15	1	29948	0	1	29925	20
5	1452	25	2	29848	87	2	29836	91
5	1453	102	2	29844	138	2	29861	111
5	1454	200	3	29885	250	3	29886	300

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
5 1455	450	3 29925	500	3 29948				
6 1455	1 2 045 035	1 2 045 045	1 2 040 040					
3 1500 L	0 17	3 2989	6325	99 99				
5 1505	0 1 30003	25 1 29957	55 1 29947	87 2 29948	92 2 29911			
5 1525	112 2 29894	116 2 29883	118 2 29885	124 2 29894	150 2 29914			
5 1507	171 3 29954	214 3 29956	252 3 29961	281 3 29963	300 3 29964			
5 1508	352 3 29981	434 3 30009						
6 1510	1 2 045 045	2 5 050 045	1 2 045 045					
3 1530 L-1	1 21	3 2994	6900	99 99				
4 1531	570 1060	1300 2050						
5 1532	0 1 30058	50 1 30010	100 1 30002	150 1 30007	182 2 30003			
5 1533	182 2 29965	192 2 29955	192 2 29947	194 2 29943	198 2 29933			
5 1534	206 2 29942	215 2 29954	220 3 29999	232 3 30005	250 3 30000			
5 1535	300 3 29949	350 3 29995	400 3 30005	440 3 30032	500 3 30042			
5 1536	524 3 30059							
6 1537	1 2 045 035	2 4 050 060	1 2 045 035					
3 1550 L-2	0 19	3 30001	7420	99 99				
5 1555	40 1 30120	50 1 30089	50 1 30050	100 1 30051	150 1 30057			
5 1556	200 1 30044	250 1 30042	300 1 30041	350 1 30040	392 2 30052			
5 1557	395 2 30036	377 2 30021	401 2 30013	406 2 30006	413 2 30009			
5 1558	419 3 30045	450 3 30005	475 3 30099	500 3 30125				
6 1560	1 2 040 035	1 2 050 050	2 4 065 090					
3 1600	1 19	3 3008	6160	99 99				
4 1601	570 1060	1300 2050						
5 1605	0 1 30147	67 1 30136	118 1 30120	150 2 30115	156 2 30095			
5 1605	157 2 30076	158 2 30070	162 2 30072	164 2 30070	166 2 30076			
5 1607	157 2 30094	185 2 30103	200 3 30104	243 3 30110	291 3 30111			
5 1608	300 3 30113	341 3 30124	356 3 30148	356 3 30172				
6 1610	1 2 035 035	2 5 050 035	1 2 045 045					
3 1650 L-2	0 16	3 3012	2700	99 99				
5 1652	0 1 30223	40 1 30145	50 1 30144	58 2 30141	59 2 30131			
5 1653	62 2 30110	65 2 30110	69 2 30116	70 3 30142	77 3 30148			
5 1654	100 3 30151	148 3 30139	200 3 30146	215 3 30153	235 3 30173			
5 1655	248 3 30223							
6 1660	1 2 040 035	1 2 050 050	1 2 045 040	1 2 040 040				
3 1700	0 19	3 3015	9110	99 99				
5 1703	0 1 30243	31 1 30234	49 1 30192	114 1 30182	145 1 30182			
5 1706	181 1 30182	207 2 30135	217 2 30171	219 2 30147	220 2 30143			
5 1707	222 2 30143	224 2 30144	225 2 30160	231 3 30132	279 3 30177			
5 1708	300 3 30179	350 3 30194	394 3 30211	412 3 30250				
6 1710	1 2 045 035	1 2 045 045	1 2 045 035					
3 1800 L-1	0 18	3 3020	9890	99 99				
5 1805	0 1 30110	22 1 30289	25 1 30280	35 1 30273	45 1 30270			
5 1806	130 1 30251	230 1 30241	295 1 30221	297 2 30205	219 2 30198			
5 1807	294 2 30199	304 2 30197	308 2 30202	311 3 30235	324 3 30223			

RROR(5)

*** INPUT CARD PRINTOUT ***

Line	1	2	3	4	5	6	7	8	9	10					
2283	64	1	30351	67	1	30350	69	1	30366	72	1	30386	80	1	30392
2284	95	2	30399	625	2	30309	640	2	30447						
2285	1	2	045 045	1	2	035 030									
2290	1	2	14 3	3042	12600	99 99									
2291	0	1	30540	100	1	30490	200	1	30434	322	2	30439	324	2	30431
2292	327	2	30418	331	2	30426	336	2	30420	338	2	30433	339	3	30450
2293	390	3	30444	400	3	30459	420	4	30522	431	1	30544			
2294	1	2	040 035	1	2	045 045	1	2	045 035						
2301	0	1	14 3	3044	12605	08 99									
2305	0	1	30561	100	1	30511	200	1	30479	322	2	30459	324	2	30452
2306	327	2	30439	331	2	30447	336	2	30442	338	2	30454	339	3	30471
2307	390	3	30465	400	3	30480	420	4	30543	431	1	30565			
2315	1	2	040 035	1	2	045 045	1	2	045 035						
2330	1	2	14 3	3050	13300	99 99									
2331	0	1	30512	100	1	30562	200	1	30530	322	2	30510	324	2	30503
2332	327	2	30481	331	2	30499	336	2	30500	338	2	30508	339	3	30522
2333	390	3	30516	400	3	30531	420	4	30594	431	1	30616			
2334	1	2	040 035	1	2	045 045	1	2	045 035						
2350	1	2	14 3	3055	13675	99 99									
2351	0	1	30561	72	1	30522	100	1	30503	151	1	30574	200	2	30557
2352	201	2	30545	202	2	30542	204	2	30540	207	2	30541	208	2	30546
2353	209	3	30558	255	3	30597	256	3	30545	250	3	30555			
2355	1	2	045 035	1	2	045 045	1	2	045 035						
2400	0	1	14 3	3060	14050	99 99									
2405	0	1	30702	72	1	30573	100	1	30554	152	1	30525	200	2	30608
2406	201	2	30595	202	2	30593	204	2	30591	207	2	30592	208	2	30597
2407	209	3	30600	255	3	30644	256	3	30696	250	3	30706			
2410	1	2	045 035	1	2	045 045	1	2	045 035						
2430	1	2	14 3	3064	14350	99 99									
2431	0	1	30735	72	1	30709	100	1	30687	152	1	30661	200	2	30644
2432	201	2	30632	202	2	30629	204	2	30627	207	2	30628	208	2	30643
2433	209	3	30645	255	3	30684	256	3	30732	250	3	30742			
2435	1	2	045 035	1	2	045 045	1	2	045 035						
2450	1	2	17 3	3066	14600	99 99									
2451	0	1	30770	75	1	30752	95	1	30714	95	2	30760	100	2	30687
2452	101	2	30661	104	2	30659	111	2	30658	115	3	30705	180	3	30712
2453	200	3	30709	235	3	30706	244	3	30699	250	3	30700	242	3	30720
2456	314	3	30737	350	3	30704									
2455	1	2	032 030	1	2	045 045	1	2	035 035						
2500	0	1	17 3	3070	14875	99 99									
2505	0	1	30662	75	1	30704	85	1	30745	95	2	30732	100	2	30699
2506	101	2	30693	104	2	30690	111	2	30699	115	3	30737	180	3	30744
2507	200	3	30741	235	3	30738	244	3	30720	250	3	30732	242	3	30752
2508	314	3	30769	350	3	30625									
2510	1	2	050 050	1	2	045 045	1	2	035 035						

PAGE 1 OF EDITING NOTES FOR: RAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD

SECID	ERROR SEVERITY	FIRST VARIABLE NO.	ERROR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
30 JK	WARNING	STATION 14	IS LESS THAN	STATION 13	
1-7	WARNING	NSA	WRONG		4
1-2	WARNING	NSA	> MAX. VALUE OF	SA	3
30 OP	WARNING	STATION 8	IS LESS THAN	STATION 7	

USGS STEP-BACKWATER PROGRAM -- VERSION 77.140 *** PAGE COUNT= 6, DATE= 7/21/77

INPUT SUMMARY FOR: GAP CREEK I-4.1 TO, 1ST TRY 47NEW SECTS ALL FLOO

30 CROSS SECTIONS SPECIFIED (00 ASSUMED)

FOUND 30 TYPE 3 CARDS

KEPT 30 CROSS SECTIONS FOR EDITING

30 " " VALID FOR PROPERTY COMPUTATIONS

30 " " " " PROFILE " "

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/M/W SECTS ALL FLOOD
 SECID=1-4.3 AT DISTANCE= 3500 PART 1 OF 1

WS	A	K	ALPHA	P	P	LEV	REV	QC
2972.0	23	663	1.00	27	27	125	152	118
2972.5	37	1376	1.30	30	30	123	153	231
2973.0	52	2320	1.00	32	33	121	153	374
2973.5	69	3552	1.00	34	35	120	154	554
2974.0	86	5114	1.00	36	37	119	155	760
2974.5	104	6966	1.00	37	39	118	156	991
2975.0	123	9122	1.00	39	41	118	157	1248
2975.5	143	11485	1.00	41	43	117	158	1520
2976.0	165	14014	1.00	44	46	117	150	1806
2976.5	188	16905	1.00	55	57	115	228	1969
2977.0	225	20413	1.10	96	99	114	280	1066
2977.5	291	25737	1.29	150	154	113	264	2022
2978.0	383	33852	1.45	204	207	56	271	2471
2978.5	490	45099	1.51	221	225	56	277	3365
2979.0	605	59145	1.50	238	242	46	304	4463
2979.5	728	74384	1.44	254	258	36	289	5812
2980.0	858	91953	1.39	265	269	32	297	7434
2980.5	992	112280	1.32	271	275	29	299	9354
2981.0	1129	137450	1.25	274	281	23	301	11424
2981.5	1269	159914	1.24	283	287	19	302	13707
2982.0	1412	195371	1.21	288	292	15	303	16139
2982.5	1557	233788	1.18	293	297	10	303	18715
2983.0	1705	284136	1.17	298	302	6	304	21431
2983.5	1855	345395	1.15	303	308	2	305	24280
2984.0	2008	411345	1.13	308	311	0	306	27422
2984.5	2161	486556	1.12	306	312	0	306	30794
2985.0	2314	577747	1.10	307	313	0	307	34708
2985.5	2468	688572	1.09	308	315	0	308	37914
2986.0	2622	817086	1.08	308	316	0	308	41652
2986.5	2777	952490	1.08	309	318	0	309	45497
2986.9	2900	111735	1.07	310	319	0	310	49651

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/M/W SECTS ALL FLOOD
 SECID=1 AT DISTANCE= 3495 PART 1 OF 2

WS	A	K	ALPHA	P	P	LEV	REV	QC
2975.0	1	0	1.00	5	6	144	150	2
2975.5	3	122	1.00	23	23	122	151	25
2976.0	20	547	1.00	26	26	126	152	69
2976.5	34	1214	1.00	29	30	124	153	206
2977.0	49	2111	1.00	32	33	121	153	343
2977.5	65	3204	1.00	34	35	120	154	516
2978.0	83	4777	1.00	35	37	119	155	715

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECID=1 AT DISTANCE= 4095 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEV	REV	DC
2970.5	101	6570	1.00	37	39	119	156	943
2979.0	120	8603	1.00	39	41	118	156	1194
2979.5	139	11019	1.00	40	43	117	157	1466
2980.0	160	13479	1.00	43	46	116	160	1746
2980.5	183	16293	1.00	46	49	115	162	2057
2981.0	216	19633	1.07	68	91	114	246	1856
2981.5	276	24411	1.26	149	152	114	263	1889
2982.0	363	31972	1.42	201	204	69	269	2321
2982.5	468	42620	1.50	218	221	58	276	3171
2983.0	581	56204	1.51	285	238	48	282	4223
2983.5	703	71169	1.46	252	255	37	289	5516
2984.0	831	88243	1.40	263	266	33	290	7092
2984.5	965	108099	1.33	270	274	28	290	8951
2985.0	1102	129859	1.29	277	280	24	301	11001
2985.5	1241	153868	1.25	282	286	20	302	13240
2986.0	1383	179937	1.21	287	291	15	302	15642
2986.5	1528	207958	1.19	292	296	11	303	18190
2987.0	1675	237923	1.17	297	301	7	304	20878
2987.5	1825	269802	1.15	302	307	3	305	23701
2988.0	1977	304117	1.14	305	310	0	305	26764
2988.5	2130	341065	1.12	306	312	0	306	30115
2989.0	2284	379805	1.11	307	313	0	307	33591
2989.5	2437	420288	1.09	308	314	0	308	37187
2990.0	2591	462468	1.08	308	316	0	308	40899
2990.5	2746	506305	1.08	309	317	0	308	44722
2991.0	2900	551765	1.07	310	319	0	310	48654

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECID=1.2.2 AT DISTANCE= 4825 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEV	REV	DC
2978.0	12	262	1.00	24	25	127	151	51
2978.5	25	787	1.00	27	28	125	152	133
2979.0	40	1546	1.00	30	31	123	153	257
2979.5	55	2547	1.00	33	34	121	154	408
2980.0	72	3841	1.00	34	35	120	154	593
2980.5	90	5459	1.00	35	38	119	155	804
2981.0	109	7371	1.00	38	39	118	156	1040
2981.5	127	9589	1.00	39	41	117	157	1302
2982.0	147	11963	1.00	42	44	117	158	1575
2982.5	169	14562	1.00	45	47	116	159	1867
2983.0	194	17538	1.01	63	66	115	232	1911
2983.5	235	21236	1.13	105	109	114	265	1889

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOO
 SECID=I+2.3 AT DISTANCE= 4625 PART 2 OF 2

WS	A	K	ALPHA	R	P	LEW	RFW	OC
2984.0	307	27132	1.32	166	169	75	265	2059
2984.5	404	35070	1.47	208	211	64	272	2633
2985.0	512	47687	1.51	225	228	54	279	3567
2985.5	628	62061	1.40	242	245	43	285	4718
2986.0	753	77690	1.43	256	260	35	292	6117
2986.5	884	95896	1.37	266	270	31	297	7808
2987.0	1019	118547	1.31	273	276	27	299	9755
2987.5	1157	139179	1.27	277	282	22	301	11871
2988.0	1298	164045	1.23	284	288	18	302	14182
2988.5	1441	190897	1.20	289	293	14	303	16693
2989.0	1587	219702	1.18	294	298	9	303	19247
2989.5	1735	250434	1.16	299	303	5	304	21990
2990.0	1886	283073	1.15	304	308	1	305	24866
2990.5	2038	318658	1.13	306	311	0	306	28086
2991.0	2191	356327	1.11	306	312	0	306	31488
2991.5	2345	395769	1.10	307	314	0	307	35012
2992.0	2499	436934	1.09	308	315	0	308	38655
2992.5	2653	479741	1.08	309	316	0	309	42412
2993.0	2807	524269	1.07	310	318	0	310	46279
2993.3	2900	551718	1.07	310	319	0	310	48649

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOO
 SECID=J-TW AT DISTANCE= 5187 PART 1 OF 2

WS	A	K	ALPHA	R	P	LEW	RFW	OC
2980.0	7	156	1.00	10	11	20	30	30
2980.5	12	395	1.00	11	12	20	31	71
2981.0	18	721	1.00	12	13	19	31	124
2981.5	24	1055	1.00	14	15	19	33	177
2982.0	32	1491	1.00	17	20	18	36	244
2982.5	42	2089	1.00	22	24	17	39	332
2983.0	54	2875	1.00	26	28	16	42	445
2983.5	68	3560	1.00	34	37	15	49	550
2984.0	88	4516	1.00	45	48	15	60	697
2984.5	112	5503	1.00	48	52	14	62	861
2985.0	137	6876	1.00	51	55	13	64	1054
2985.5	163	8576	1.00	54	57	12	66	1266
2986.0	190	10323	1.00	56	60	12	69	1485
2986.5	219	12519	1.00	59	63	12	71	1739
2987.0	249	15548	1.00	62	66	11	73	2049
2987.5	281	19713	1.00	64	69	11	75	2335
2988.0	313	25237	1.00	67	72	10	77	2857
2988.5	352	31985	1.00	77	82	10	97	4013

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRV W/NEW SECTS ALL FLOOD
 SECID=J-TV AT DISTANCE= 5187 PART 2 OF 2

HS	A	K	ALPHA	B	P	LEW	REN	QC
2989.0	401	34214	1.00	108	113	9	117	4378
2989.5	466	35605	1.00	145	151	8	153	4729
2990.0	541	44331	1.00	155	160	7	162	5732
2990.5	620	54255	1.00	164	170	6	171	6839
2991.0	705	65297	1.00	174	180	6	179	8053
2991.5	793	79226	1.00	178	184	5	183	9498
2992.0	883	92911	1.00	181	187	4	184	11067
2992.5	974	107807	1.00	183	190	3	186	12724
2993.0	1066	124099	1.00	186	193	2	188	14468
2993.5	1160	141375	1.00	189	196	1	190	16295
2994.0	1255	159423	1.00	192	199	0	192	18211
2994.5	1352	179055	1.00	194	202	0	194	20242
2995.0	1449	199456	1.00	196	204	0	196	22360
2995.5	1548	220758	1.00	198	207	0	198	24556
2996.0	1647	242947	1.00	200	209	0	200	26830
2996.1	1657	247485	1.00	200	209	0	200	27293

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRV W/NEW SECTS ALL FLOOD
 SECID=80 JK AT DISTANCE= 5187 PART 1 OF 2

HS	A	K	ALPHA	B	P	LEW	REN	QC
2980.0	1	15	1.00	4	4	3	7	3
2980.5	4	38	1.00	6	7	2	9	16
2981.0	8	205	1.00	13	14	2	26	35
2981.5	14	501	1.00	26	28	2	28	84
2982.0	31	1230	1.00	27	29	1	29	191
2982.5	45	2182	1.00	29	30	1	29	325
2983.0	54	3230	1.00	30	33	0	30	460
2983.5	74	4619	1.00	30	34	0	30	659
2984.0	89	6163	1.00	30	36	0	30	869
2984.5	104	7842	1.00	30	34	0	30	1090
2985.0	119	9640	1.00	30	37	0	30	1344
2985.5	134	11543	1.00	30	38	0	30	1606
2986.0	149	13546	1.00	30	39	0	30	1883
2986.5	164	15622	1.00	30	40	0	30	2175
2987.0	179	17791	1.00	30	41	0	30	2480
2987.5	194	20010	1.00	30	42	0	30	2798
2988.0	209	22303	1.00	30	43	0	30	3129
2988.5	224	24659	1.00	30	44	0	30	3471
2989.0	239	27060	1.00	30	45	0	30	3825
2989.5	254	29515	1.00	30	46	0	30	4192
2990.0	263	32015	1.00	30	47	0	30	4568
2990.5	284	34554	1.00	30	48	0	30	4956

CROSS-SECTION PROPERTIES FOR: GAP CREEK T-4.1 TO T-1ST TRY 2/NEW SECTS ALL FLOW
 SECTION NO. AT DISTANCE= 3187 PART 2 OF 2

SECTION NO.	Y	X	ALPHA	B	H	LEV	NEW	OC
2901.0	300	37141	1.00	36	40	0	30	5353
2901.5	314	39760	1.00	30	50	0	30	5761
2902.0	328	42413	1.00	30	51	0	30	4179
2902.4	341	42873	1.00	30	52	0	30	0

CROSS-SECTION PROPERTIES FOR: GAP CREEK T-4.1 TO T-1ST TRY 2/NEW SECTS ALL FLOW
 SECTION NO. AT DISTANCE= 3290 PART 1 OF 1

SECTION NO.	Y	X	ALPHA	B	H	LEV	NEW	OC
2901.0	69	69	1.00	13	13	2041	204	16
2901.5	12	291	1.00	15	15	260	206	39
2902.0	15	632	1.00	15	16	270	204	121
2902.5	22	1069	1.00	16	18	278	203	198
2903.0	25	1592	1.00	17	19	278	203	289
2903.5	25	1993	1.00	23	25	275	206	360
2904.0	33	2711	1.00	28	31	273	301	459
2904.5	41	3750	1.02	31	36	270	303	610
2905.0	52	5111	1.05	34	41	265	305	782
2905.5	67	6904	1.08	45	48	262	307	957
2906.0	86	8732	1.14	57	60	252	309	1135
2906.5	109	11237	1.20	69	72	242	311	1374
2907.0	137	14282	1.23	81	83	232	313	1693
2907.5	170	17278	1.32	104	107	191	315	1501
2908.0	207	23300	1.56	217	228	99	316	2171
2908.5	257	31933	1.57	257	265	75	327	3162
2909.0	317	44612	1.38	313	316	62	375	4383
2909.5	397	61271	1.29	373	381	50	328	5964
2910.0	495	80183	1.26	413	416	37	350	9933
2910.5	617	102454	1.23	444	447	25	300	13324
2911.0	764	129013	1.21	475	478	12	307	13344
2911.5	931	154997	1.19	506	509	6	306	16082
2902.0	1052	172704	1.12	525	528	0	305	18613
2902.5	1214	233444	1.12	543	553	0	340	23237
2903.0	1402	271372	1.20	531	535	0	301	26870
2903.5	1618	333454	1.21	504	505	0	300	29166

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST IDY W/NEW SECTS ALL FLOO
 SECID=K-1 AT DISTANCE= 5750 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	OC
2984.0	3	127	1.00	14	14	84	100	6
2984.5	10	243	1.00	17	17	85	102	46
2985.0	19	626	1.00	20	20	84	104	109
2985.5	36	1173	1.00	23	24	83	106	196
2986.0	42	1498	1.00	26	27	82	108	309
2986.5	57	2783	1.00	30	31	81	111	440
2987.0	72	4995	1.00	32	33	79	111	616
2987.5	89	8380	1.00	34	36	78	111	815
2988.0	106	14952	1.00	36	38	76	112	1037
2988.5	125	2613	1.01	41	44	70	112	1224
2989.0	209	15115	1.56	225	229	59	309	892
2989.5	304	18419	1.73	283	287	48	432	1565
2990.0	483	28013	1.56	312	316	41	453	2729
2990.5	645	40636	1.39	339	338	33	448	4307
2991.0	818	56152	1.27	357	361	26	382	6223
2991.5	1002	74642	1.19	389	384	17	387	8447
2992.0	1199	95764	1.15	407	411	9	417	10889
2992.5	1410	119256	1.12	435	440	2	438	13570
2993.0	1634	146766	1.10	458	461	-2	455	16708
2993.5	1867	178228	1.08	474	477	-5	468	20255
2994.0	2108	212698	1.06	490	493	-9	480	24065
2994.5	2356	250185	1.05	505	509	-12	493	28138
2994.8	2599	274725	1.05	515	519	-14	500	30704

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST IDY W/NEW SECTS ALL FLOO
 SECID=L AT DISTANCE= 6325 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	OC
2990.0	1	14	1.00	6	6	115	121	3
2990.5	5	108	1.04	14	15	113	125	24
2991.0	17	350	1.00	27	27	105	132	75
2991.5	33	887	1.00	39	39	99	138	173
2991.8	56	1742	1.00	52	52	93	145	330
2992.0	74	3183	1.00	60	59	91	151	568
2992.5	112	5874	1.00	82	83	91	163	870
2992.8	146	7446	1.00	88	86	86	154	1240
2993.0	178	10282	1.00	99	79	89	158	1650
2993.5	215	13583	1.04	122	74	89	151	2189
2994.0	252	17365	1.00	146	77	88	144	2615
2994.5	291	21529	1.00	179	81	87	136	3169
2995.0	341	26606	1.04	223	125	86	129	3747
2995.5	400	32395	1.11	272	163	81	123	4451
2996.0	467	41782	1.24	321	223	73	114	5212

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 151 TRV W/NEW SECTS ALL FLOOD
 SECTID=L AT DISTANCE= 5325 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2996.0	633	52093	1.35	242	284	21	303	4619
2997.0	779	64974	1.40	300	302	18	318	6009
2997.5	934	80934	1.41	318	320	15	334	7647
2998.0	1097	97230	1.39	336	339	12	349	9522
2998.5	1270	116599	1.37	354	356	10	364	11643
2999.0	1451	138117	1.35	371	374	7	378	13994
2999.5	1641	161809	1.33	389	391	4	393	16572
3000.0	1840	187709	1.31	406	408	2	408	19379
3000.5	2047	215102	1.30	422	425	0	422	22458
3000.9	2219	240741	1.28	434	437	0	434	25136

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 151 TRV W/NEW SECTS ALL FLOOD
 SECTID=L-1 AT DISTANCE= 6900 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2994.0	3	46	1.00	9	9	165	204	11
2994.5	9	196	1.00	15	15	193	205	41
2995.0	18	501	1.00	20	21	192	212	99
2995.5	29	982	1.00	23	24	192	215	186
2996.0	42	1571	1.00	29	30	187	215	289
2996.5	58	2372	1.00	34	35	182	216	426
2997.0	75	3326	1.00	35	37	182	217	625
2997.5	93	4621	1.00	35	38	182	217	850
2998.0	110	6290	1.00	36	40	182	218	1095
2998.5	128	8139	1.00	36	41	182	218	1368
2999.0	147	10251	1.01	50	55	182	308	1737
2999.5	169	12394	1.12	115	121	182	350	2264
3000.0	252	13541	1.33	167	169	182	373	3596
3000.5	351	14549	1.44	272	295	41	395	5243
3001.0	425	27412	1.37	356	363	50	406	8049
3001.5	497	41650	1.20	349	376	45	414	10655
3002.0	585	56984	1.10	332	389	40	422	1412
3002.5	1090	93605	1.04	335	402	34	420	10065
3003.0	1289	107366	1.02	409	414	29	437	12900
3003.5	1430	133627	1.01	434	441	24	458	15741
3004.0	1724	164904	1.00	464	474	19	469	18739
3004.5	1966	194873	1.00	491	498	14	484	22315
3005.0	2214	234225	1.00	503	510	0	511	26340
3005.5	2484	276999	1.00	515	522	0	518	30520
3005.9	2673	313979	1.00	524	531	0	524	34263

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECTION= 2 AT DISTANCE= 7420 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEM	RPM	QC
3001.0	2	25	1.00	10	10	403	413	6
3001.5	4	176	1.00	14	14	400	414	37
3002.0	15	452	1.00	17	17	397	414	89
3002.5	25	885	1.00	19	19	397	415	165
3003.0	34	1441	1.00	19	21	395	416	260
3003.5	44	2104	1.00	20	22	395	417	372
3004.0	55	2837	1.00	22	24	395	417	492
3004.5	121	4434	1.71	195	198	196	418	416
3005.0	231	8210	1.42	246	249	177	431	1065
3005.5	397	15324	1.37	379	381	44	447	1971
3006.0	600	29700	1.15	415	418	37	452	3791
3006.5	810	49505	1.08	425	427	31	455	6114
3007.0	1025	73348	1.06	434	437	24	458	8576
3007.5	1244	99510	1.06	443	446	18	461	11492
3008.0	1469	128876	1.06	453	456	12	464	14565
3008.5	1697	161407	1.07	462	465	5	467	17936
3009.0	1930	197009	1.08	472	474	0	470	21356
3009.5	2166	235585	1.08	481	484	-7	473	25098
3010.0	2411	277059	1.09	491	494	-13	477	29032
3010.5	2659	321398	1.10	502	505	-20	481	33142
3011.0	2913	368720	1.10	513	516	-26	485	37471
3011.5	3173	419122	1.11	524	527	-33	489	42034
3012.0	3438	472449	1.11	535	539	-39	495	46608
3012.5	3706	529583	1.12	540	544	-39	500	52033

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECTION= 2 AT DISTANCE= 7450 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEM	RPM	QC
3008.0	2	185	1.00	9	10	157	166	30
3008.5	12	395	1.00	13	11	157	167	79
3009.0	10	658	1.00	11	13	155	167	126
3009.5	23	896	1.00	13	15	156	169	174
3010.0	32	1090	1.00	25	27	155	170	212
3010.5	47	1647	1.00	38	37	153	178	314
3011.0	57	2255	1.00	43	46	152	175	473
3011.5	125	4424	1.31	157	159	159	187	574
3012.0	225	8727	1.29	210	213	116	194	1025
3012.5	354	17608	1.25	241	244	101	181	1994
3013.0	455	25240	1.23	282	281	93	183	3166
3013.5	592	37432	1.19	275	279	78	185	4519
3014.0	732	52756	1.10	363	284	42	187	6105
3014.5	877	70025	1.20	294	297	55	180	7483

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CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECTION= 1 AT DISTANCE= 9160 PART 2 OF 2

WS	A	K	ALPHA	R	P	LEW	REN	QC
3015.0	1026	90619	1.20	302	305	49	351	9410
3015.5	1179	111681	1.17	310	313	42	352	12056
3016.0	1335	134777	1.15	318	321	35	353	14473
3016.5	1496	159391	1.14	325	329	29	354	17059
3017.0	1661	187016	1.13	333	337	22	355	19807
3017.5	1829	216334	1.12	340	344	16	356	22750
3018.0	2001	247766	1.11	347	351	9	356	25872
3018.5	2176	281171	1.10	353	359	3	356	29150
3019.7	2247	295104	1.10	356	361	0	356	30507

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECTION= 2 AT DISTANCE= 8700 PART 1 OF 1

WS	A	K	ALPHA	R	P	LEW	REN	QC
3012.0	7	155	1.00	9	9	61	50	32
3012.5	11	339	1.00	9	11	60	50	68
3013.0	16	579	1.00	10	12	59	70	113
3013.5	21	878	1.00	11	13	58	70	159
3014.0	24	1270	1.04	23	26	58	155	169
3014.5	37	2017	1.73	102	105	40	192	183
3015.0	121	4101	1.74	159	163	37	209	455
3015.5	210	8236	1.33	162	185	35	217	1105
3016.0	383	14653	1.11	196	193	32	222	2057
3016.5	399	23335	1.03	197	200	30	227	3169
3017.0	500	33510	1.01	205	208	27	232	4399
3017.5	654	45044	1.01	211	214	25	236	5781
3018.0	719	58264	1.00	215	218	22	237	7327
3018.5	819	72993	1.00	219	222	19	239	8954
3019.0	929	89154	1.00	222	225	17	239	10766
3019.5	1041	106719	1.00	224	230	14	241	12652
3020.0	1154	123655	1.00	230	234	12	242	14670
3020.5	1271	145977	1.00	234	239	9	243	16790
3021.0	1389	167639	1.00	238	242	7	245	19016
3021.5	1509	190642	1.00	242	246	4	246	21340
3022.0	1631	214976	1.00	245	250	2	247	23789
3022.3	1754	236219	1.00	248	253	0	248	25302

CROSS-SECTION PROPERTIES FOR: GAP CREEK L-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECTID=N AT DISTANCE= 9110 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEN	DEM	GC
3015.0	3	74	1.00	6	6	219	224	15
3015.5	6	190	1.00	6	7	218	225	36
3016.0	10	347	1.00	7	9	218	225	64
3016.5	14	533	1.00	9	11	217	225	97
3017.0	19	786	1.00	11	13	217	228	139
3017.5	25	1046	1.00	15	17	214	229	182
3018.0	42	1542	1.34	72	75	211	303	158
3018.5	116	3422	1.72	218	221	97	316	367
3019.0	236	2151	1.40	255	259	63	329	1074
3019.5	380	15061	1.19	285	290	46	342	2240
3020.0	533	28418	1.06	317	319	40	357	3816
3020.5	697	45836	1.01	339	342	34	374	5632
3021.0	872	65271	1.01	361	364	30	391	7664
3021.5	1056	89218	1.00	370	372	26	396	10009
3022.0	1242	114414	1.00	375	378	23	399	12800
3022.5	1431	143434	1.00	381	384	19	400	15719
3023.0	1623	175191	1.00	387	390	16	403	18948
3023.5	1818	209615	1.00	393	396	12	405	22178
3024.0	2016	246649	1.00	399	402	9	407	25706
3024.5	2216	286246	1.00	404	408	6	410	29424
3025.0	2420	329373	1.00	410	413	2	412	33330
3025.3	2543	355408	1.00	412	416	0	412	35817

CROSS-SECTION PROPERTIES FOR: GAP CREEK L-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECTID=O-T AT DISTANCE= 9490 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEN	DEM	GC
3020.0	3	33	1.00	18	18	298	306	3
3020.5	13	316	1.00	21	22	297	308	56
3021.0	24	441	1.01	22	23	296	309	142
3021.5	26	1597	1.01	23	25	296	309	247
3022.0	43	2575	1.02	25	26	295	310	373
3022.5	53	3808	1.11	42	44	298	313	418
3023.0	90	5633	1.25	67	69	247	305	527
3023.5	134	8467	1.42	107	109	225	333	731
3024.0	194	12743	1.50	136	139	204	340	1079
3024.5	272	18542	1.57	175	178	172	347	1531
3025.0	370	25452	1.61	219	220	137	355	2159
3025.5	447	36048	1.52	243	251	112	360	3139
3026.0	518	49898	1.42	274	276	90	364	4469
3026.5	751	65288	1.35	299	302	67	367	5916
3027.0	917	83252	1.30	325	327	45	370	7665
3027.5	1084	105326	1.24	349	342	34	373	9877

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECID=0-TX AT DISTANCE= 9690 PART 2 OF 2

WS	A	K	ALPHA	B	D	LEW	REW	OC
3028.0	1256	131104	1.18	146	349	30	377	12477
3028.5	1430	159628	1.14	353	355	27	380	15274
3029.0	1509	189847	1.12	352	365	21	393	18170
3029.5	1792	223154	1.10	359	372	16	385	21326
3030.0	1976	258903	1.09	377	380	10	387	24662
3030.5	2158	297072	1.09	384	387	5	399	28176
3031.0	2352	337649	1.07	391	394	0	391	31864
3031.5	2550	38127	1.05	393	397	0	393	35983
3032.0	2755	430983	1.05	395	400	0	395	40259
3032.1	2795	440824	1.05	395	400	0	396	41131

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECID=80-OP AT DISTANCE= 9690 PART 1 OF 1

WS	A	K	ALPHA	B	D	LEW	REW	OC
3019.0	3	35	1.00	9	9	8	17	9
3019.5	9	142	1.00	15	15	6	21	38
3020.0	17	484	1.00	17	17	5	21	95
3020.5	25	899	1.00	18	19	3	21	170
3021.0	35	1417	1.00	20	22	1	21	262
3021.5	45	2055	1.00	21	24	0	21	373
3022.0	55	2836	1.00	21	25	0	21	511
3022.5	66	3687	1.00	21	26	0	21	663
3023.0	76	4597	1.00	21	27	0	21	828
3023.5	86	4448	1.00	10	38	0	21	1408
3023.6	87	3813	1.00	0	49	0	21	0

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECID=9-APP AT DISTANCE= 9736 PART 1 OF 2

WS	A	K	ALPHA	B	D	LEW	REW	OC
3019.0	4	69	1.00	9	9	344	353	15
3019.5	10	230	1.00	10	11	343	353	47
3020.0	14	463	1.00	11	13	342	354	91
3020.5	20	766	1.00	13	14	341	354	146
3021.0	27	1122	1.00	14	15	341	355	210
3021.5	35	1500	1.00	15	19	340	357	286
3022.0	43	1884	1.00	15	21	340	358	376
3022.5	53	2310	1.00	20	23	339	360	483
3023.0	64	2760	1.01	23	26	338	361	598
3023.5	76	3227	1.03	27	30	336	363	720

CROSS-SECTION PROPERTIES FOR: GAP CROSS I-4.1 TO J 1ST TRY W/NEW SECTS ALL FLOOD
 SECTION= 492 AT DISTANCE= 973.4 PART 2 OF 2

S	A	K	ALPHA	B	U	LEW	PEW	OC
3024.5	104	3888	1.23	181	85	264	360	597
3024.5	170	5928	1.55	199	202	168	376	776
3025.0	204	10024	1.38	267	261	126	385	1516
3025.5	432	16996	1.75	307	297	110	409	2766
3026.0	584	27827	1.96	316	319	97	413	4378
3026.5	746	42679	1.85	331	334	85	416	6218
3027.0	915	58578	1.84	341	345	75	416	8314
3027.5	1088	74707	1.82	350	354	67	417	10638
3028.0	1265	90149	1.81	359	364	58	418	13170
3028.5	1447	113758	1.80	369	373	50	419	15907
3029.0	1634	144501	1.79	378	382	42	419	19844
3029.5	1825	171356	1.78	387	391	33	420	21979
3030.0	2022	195837	1.76	404	400	25	420	24645
3030.5	2228	223655	1.77	421	426	17	420	28121
3031.0	2443	256002	1.68	438	443	8	446	31511
3031.5	2665	295458	1.68	458	455	0	450	35422

CROSS-SECTION PROPERTIES FOR: GAP CROSS I-4.1 TO J 1ST TRY W/NEW SECTS ALL FLOOD
 SECTION= 493 AT DISTANCE= 1009.0 PART 1 OF 2

S	A	K	ALPHA	B	U	LEW	PEW	OC
3024.5	4	30	1.00	10	10	202	362	13
3025.0	6	25	1.00	11	12	222	363	46
3025.5	15	817	1.00	12	13	241	363	97
3026.0	31	236	1.00	15	16	270	364	145
3026.5	46	1317	1.00	20	21	285	365	202
3027.0	61	2126	1.00	23	25	292	365	267
3027.5	73	3435	1.00	25	27	298	366	332
3028.0	75	5053	1.21	25	25	265	371	411
3028.5	114	7488	1.51	29	24	248	376	587
3029.0	152	11306	1.73	128	127	217	381	828
3029.5	239	15493	1.83	186	183	186	386	1221
3030.0	329	21061	1.83	269	262	150	386	1769
3030.5	451	27115	1.84	265	267	97	389	2462
3031.0	574	33757	1.51	287	283	67	394	3767
3031.5	700	40926	1.46	300	311	27	394	5095
3032.0	828	48134	1.27	320	322	11	399	7542
3032.5	1054	55933	1.21	331	334	22	403	9746
3033.0	1227	62292	1.17	343	346	15	402	12164
3033.5	1481	65161	1.14	385	388	10	404	14786
3034.0	1632	67445	1.12	400	401	7	404	17510
3034.5	1763	69335	1.10	372	361	0	400	20532
3035.0	1861	70830	1.08	340	333	-10	371	23882

CROSS-SECTION PROPERTIES FOR GAP CREEK I-4.1 TO T-1ST TRV W/NE SECTS ALL FLOOD
 SECID=P-2 AT DISTANCE= 10000 PART 2 OF 2

SEC	A	B	ALPHA	H	E	LEV	REF	OC
3034.0	2155	286912	1.08	401	405	-28	178	27270
3034.5	2351	326361	1.07	413	416	-37	375	30896
3035.0	2571	369500	1.07	425	428	-47	377	34702
3035.5	2599	396906	1.06	424	431	-49	378	37292

CROSS-SECTION PROPERTIES FOR GAP CREEK I-4.1 TO T-1ST TRV W/NE SECTS ALL FLOOD
 SECID=P AT DISTANCE= 10730 PART 1 OF 1

SEC	A	B	ALPHA	H	E	LEV	REF	OC
3029.0	4	75	1.00	5	4	135	143	5815
3029.5	9	234	1.00	11	12	134	145	43
3030.0	15	506	1.00	14	14	133	147	097
3030.5	23	940	1.01	17	19	132	146	140
3031.0	34	1436	1.05	25	25	130	142	218
3031.5	47	2199	1.08	29	31	129	143	333
3032.0	66	3196	1.26	48	70	125	145	331
3032.5	105	5744	2.15	254	262	117	143	397
3033.0	327	13491	2.89	392	395	109	141	1199
3033.5	427	25695	1.57	405	407	100	145	2728
3034.0	732	46263	1.29	417	419	92	149	4853
3034.5	943	79567	1.15	428	431	85	149	7493
3035.0	1159	97104	1.11	444	442	77	147	10162
3035.5	1323	127355	1.08	451	454	70	151	13197
3036.0	1511	161221	1.07	459	455	62	145	16496
3036.5	1744	198497	1.06	474	477	54	139	20052
3037.0	2035	239531	1.05	486	492	47	133	23850
3037.5	2382	283952	1.05	497	500	40	127	27926
3038.0	2788	331826	1.04	508	511	33	141	32247
3038.5	3256	383857	1.04	519	522	26	145	36900
3039.0	3791	437744	1.05	530	537	19	149	41607
3039.5	4397	494741	1.04	541	543	12	153	46541
3040.0	5082	557142	1.04	551	553	5	157	51509
3040.5	5856	626679	1.05	563	563	0	160	56294

CROSS-SECTION PROPERTIES FOR GAP CREEK I-4.1 TO T-1ST TRV W/NE SECTS ALL FLOOD
 SECID=P AT DISTANCE= 11340 PART 1 OF 2

SEC	A	B	ALPHA	H	E	LEV	REF	OC
3036.0	12	174	1.00	25	27	47	60	16
3036.5	20	377	1.00	27	30	41	57	71
3037.0	30	677	1.00	27	30	41	70	179

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CROSS-SECTION PROPERTIES FOR: GAP CREEK 1-4.1 TO 1 1ST TRY WHEN SECTS ALL FLOOD
 SECTION=RA1 AT DISTANCE= 11450 PART 2 OF 2

	A	K	ALPHA	B	P	LEV	WCB	QC
3035.5	45	1095	1.00	31	33	40	72	332
3036.0	41	2724	1.00	32	40	39	54	442
3036.5	44	3763	1.00	51	53	30	05	639
3037.0	111	55625	1.00	55	55	30	44	888
3037.5	139	8087	1.00	56	60	30	55	1241
3038.0	142	10871	1.00	57	61	30	56	1632
3038.5	146	13954	1.00	57	62	30	56	2058
3039.0	226	16825	1.00	61	67	35	57	2453
3039.5	258	19849	1.00	67	73	31	58	2864
3040.0	293	23175	1.00	74	79	25	100	3312
3040.5	301	26979	1.00	80	86	21	102	3619
3041.0	373	31288	1.00	87	93	17	104	4388
3041.5	412	36121	1.00	93	99	12	106	5020
3042.0	467	41509	1.00	100	106	7	107	5717
3042.5	519	47355	1.00	107	113	3	110	6471
3043.0	574	53766	1.00	114	121	2	114	7289
3043.5	633	59445	1.00	125	133	-1	124	8042
3044.0	697	68948	1.00	128	135	-3	124	8222
3044.5	751	75022	1.00	130	137	-5	124	10462
3045.0	827	86657	1.00	131	139	-5	124	11769
3045.5	893	100342	1.00	133	142	-8	124	13115
3045.8	973	117812	1.00	134	143	-8	124	13955

CROSS-SECTION PROPERTIES FOR: GAP CREEK 1-4.1 TO 1 1ST TRY WHEN SECTS ALL FLOOD
 SECTION=RA1 AT DISTANCE= 11400 PART 1 OF 2

	A	K	ALPHA	B	P	LEV	WCB	QC
3035.0	44	100	1.00	14	18	79	84	32
3035.5	15	400	1.00	14	17	75	84	45
3036.0	24	977	1.00	19	19	77	84	107
3036.5	33	1510	1.00	19	24	75	85	200
3037.0	43	2243	1.00	25	22	76	85	356
3037.5	53	3076	1.00	21	21	75	87	470
3038.0	64	4010	1.00	22	24	75	87	617
3038.5	75	5070	1.00	23	26	75	89	771
3039.0	87	6277	1.00	25	28	75	89	949
3039.5	100	7630	1.00	28	28	75	89	1131
3040.0	115	9130	1.00	31	30	73	89	1303
3040.5	130	10780	1.00	24	31	73	89	1502
3041.0	142	12580	1.00	27	32	73	89	1700
3041.5	158	14530	1.00	30	34	73	89	1907
3042.0	177	16730	1.00	32	35	73	89	1985
3042.5	204	19280	1.00	11	121	72	89	1432

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO I 1ST TRY W/NEW SECTS ALL FLOOD
 SECTID=044 AT DISTANCE= 11400 PART 2 OF 2

Y	A	K	ALPHA	B	P	LEW	REW	DOC
3043.0	322	22419	1.72	384	297	72	541	1471
3043.5	537	32524	2.008	507	516	71	579	2184
3044.0	795	50724	1.52	525	534	71	595	4351
3044.5	1051	74783	1.33	545	546	71	507	7368
3045.0	1331	103977	1.17	545	555	71	516	10900
3045.5	1608	137863	1.09	554	562	71	525	14838
3046.0	1885	176206	1.03	563	575	71	534	19891
3046.5	1998	192748	1.04	567	578	71	538	20875

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO I 1ST TRY W/NEW SECTS ALL FLOOD
 SECTID=D 02 AT DISTANCE= 11430 PART 1 OF 1

Y	A	K	ALPHA	B	P	LEW	REW	DOC
3035.0	7	152	1.00	13	13	51	60	29
3035.5	15	470	1.00	18	19	47	66	77
3036.0	20	920	1.00	21	22	47	66	157
3036.5	28	1572	1.00	22	23	47	69	258
3037.0	47	2353	1.00	23	25	47	70	381
3037.5	53	3330	1.00	24	26	46	70	523
3038.0	71	4463	1.00	25	28	45	71	681
3038.5	86	5897	1.00	26	29	45	72	856
3039.0	99	7606	1.00	37	31	44	61	915
3039.5	111	9561	1.00	50	34	40	60	1064
3040.0	202	2156	1.57	580	553	36	535	526
3040.5	407	21110	1.47	594	528	33	527	2137
3041.0	755	41307	1.17	596	500	32	520	4863
3041.5	1394	57922	1.05	500	504	30	530	8199
3042.0	1395	100215	1.01	504	502	28	522	11956
3042.5	1697	137735	1.00	508	512	25	522	15282
3043.0	2057	179039	1.00	513	518	21	525	20532
3043.5	2317	22195	1.00	521	524	15	534	28255
3044.0	2624	277137	1.01	523	534	0	530	30273
3044.5	2901	342505	1.01	527	542	0	530	35482
3045.0	3055	395032	1.02	540	545	0	540	37787

CROSS-SECTION PROPERTIES FOR: GAR CREEK I-1.1 TO I 1ST TRY W/NEW SECTS ALL FLOOD
 SECTION#P=2.1 AT DISTANCE= 12400 PART 1 OF 1

VS	A	K	ALPHA	B	P	LEW	RFN	OC
3042.0	0	1	1.00	1	2	327	328	0
3042.5	2	29	1.00	5	5	325	331	6
3043.0	6	136	1.00	13	13	324	337	26
3043.5	14	402	1.00	15	15	323	338	72
3044.0	152	832	1.00	29	30	310	339	111
3044.5	365	1562	1.37	59	70	279	391	178
3045.0	99	3462	1.59	145	147	249	394	356
3045.5	190	7061	1.30	179	181	215	397	869
3046.0	277	12884	1.19	267	269	194	400	1570
3046.5	387	21827	1.07	224	226	179	402	2764
3047.0	501	33674	1.03	241	243	162	403	4028
3047.5	626	47211	1.02	258	260	147	405	5457
3048.0	759	62456	1.02	275	277	131	407	7001
3048.5	901	79911	1.22	293	295	115	408	8687
3049.0	1052	99657	1.02	310	312	100	410	10492
3049.5	1210	122509	1.02	321	324	80	411	12208
3050.0	1375	149002	1.01	333	335	60	413	15711
3050.5	1543	175009	1.01	345	347	40	415	18401
3051.0	1718	205527	1.01	356	359	20	416	21270
3051.5	1899	237779	1.01	363	370	5	418	24345
3052.0	2055	272388	1.01	379	382	0	419	27601
3052.5	2279	309069	1.01	392	394	0	422	31036
3053.0	2477	347966	1.01	404	407	0	424	34659
3053.5	2682	389339	1.01	417	419	0	427	38479
3054.0	2894	433229	1.01	429	432	0	429	42500
3054.5	3066	474919	1.00	431	434	0	431	46289

CROSS-SECTION PROPERTIES FOR: GAR CREEK I-1.1 TO I 1ST TRY W/NEW SECTS ALL FLOOD
 SECTION#P=2.1 AT DISTANCE= 12405 PART 1 OF 3

VS	A	K	ALPHA	B	P	LEW	RFN	OC
3044.0	0	1	1.00	1	1	327	328	0
3044.5	1	15	1.00	4	5	325	331	4
3045.0	3	58	1.00	12	12	324	334	20
3045.5	7	236	1.00	15	15	323	338	61
3046.0	12	795	1.00	22	23	318	339	107
3046.5	17	1446	1.31	54	54	245	390	166
3047.0	24	2080	1.50	131	131	255	393	311
3047.5	32	3201	1.43	172	174	224	397	449
3048.0	41	4442	1.29	243	245	197	400	675
3048.5	51	5800	1.00	295	298	151	403	931
3049.0	62	7285	1.00	347	349	106	407	1262
3049.5	74	8890	1.02	400	403	60	408	1668

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4. TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECID=P AT DISTANCE= 12905 PART 2 OF 2

XS	U	K	ALPHA	R	P	LEW	RFW	QC
3050.0	732	59239	1.02	272	274	134	406	6744
3050.5	872	75248	1.02	299	291	119	408	8511
3051.0	1021	95515	1.02	306	309	103	410	10474
3051.5	1178	117916	1.02	319	321	92	411	12732
3052.0	1340	142773	1.01	331	333	82	413	15197
3052.5	1509	169921	1.01	342	345	72	414	17850
3053.0	1683	199376	1.01	354	356	62	416	20690
3053.5	1862	231160	1.01	365	368	52	417	23719
3054.0	2048	265297	1.01	377	380	42	418	26936
3054.5	2240	301508	1.01	389	392	32	421	30337
3055.0	2437	340016	1.01	402	404	22	424	33921
3055.5	2641	380892	1.01	414	417	12	426	37701
3056.0	2851	424276	1.01	427	429	2	428	41682
3056.5	3056	470868	1.00	431	434	0	431	46292

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECID=R*5.1 AT DISTANCE= 13300 PART 1 OF 2

XS	U	K	ALPHA	R	P	LEW	RFW	QC
3050.0	14	461	1.00	12	15	324	395	81
3050.5	21	750	1.00	15	18	323	398	143
3051.0	29	1191	1.00	16	21	322	406	217
3051.5	38	1691	1.22	47	52	292	339	223
3052.0	47	2253	1.53	115	119	261	303	325
3052.5	56	2827	1.59	165	171	231	296	701
3053.0	67	3433	1.30	199	204	200	290	1367
3053.5	78	4067	1.11	217	222	184	401	2405
3054.0	89	4740	1.04	234	239	159	403	3628
3054.5	100	5443	1.02	251	257	133	404	5016
3055.0	115	6172	1.02	269	274	117	406	6567
3055.5	134	7024	1.02	286	291	102	408	8307
3056.0	156	7993	1.02	303	308	85	409	10239
3056.5	181	9063	1.01	317	322	69	411	12441
3057.0	207	10237	1.01	328	334	54	412	14976
3057.5	234	11517	1.01	339	345	40	414	17840
3058.0	261	12901	1.01	352	357	26	416	20906
3058.5	289	14381	1.01	363	368	13	417	23302
3059.0	317	15957	1.01	375	381	1	419	26486
3059.5	347	17639	1.01	387	393	0	421	29858
3060.0	377	19427	1.01	399	405	0	423	33407
3060.5	408	21321	1.01	412	417	0	426	37159
3061.0	439	23321	1.01	424	430	0	428	41099
3061.5	470	25427	1.00	431	437	0	431	45566

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECID=3+5.1 AT DISTANCE= 13300 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3061.6	3076	473947	1.00	431	438	0	431	46522

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECID=5-5.1 AT DISTANCE= 13675 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3055.0	6	165	1.00	8	9	201	208	31
3055.5	10	351	1.00	9	10	200	209	63
3056.0	16	625	1.12	18	19	198	211	80
3056.5	29	1135	1.43	35	36	182	217	126
3057.0	51	2032	1.53	52	54	171	223	231
3057.5	81	3449	1.48	69	71	150	229	412
3058.0	120	5597	1.36	86	87	149	235	693
3058.5	167	8775	1.22	102	104	138	241	1096
3059.0	223	13241	1.13	119	120	128	247	1524
3059.5	285	19354	1.07	136	137	117	253	2280
3060.0	358	26757	1.04	151	152	106	257	3067
3060.5	437	35258	1.03	163	165	97	260	3991
3061.0	521	45306	1.02	174	175	90	263	5060
3061.5	610	56704	1.02	184	186	82	267	6249
3062.0	705	69490	1.01	195	197	75	270	7559
3062.5	806	83052	1.01	209	210	65	273	8931
3063.0	914	97785	1.01	224	226	57	276	10402
3063.5	1030	114244	1.01	240	242	49	280	12025
3064.0	1154	132507	1.01	255	257	27	283	13815
3064.5	1285	152649	1.01	271	273	15	286	15760
3065.0	1425	175223	1.01	286	288	8	288	17919
3065.5	1584	203233	1.01	299	297	0	290	20595

CROSS-SECTION PROPERTIES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
 SECID=8 AT DISTANCE= 14060 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3060.0	5	135	1.00	8	9	201	208	24
3060.5	9	309	1.00	8	9	200	209	56
3061.0	14	556	1.06	15	16	196	210	78
3061.5	26	1007	1.38	32	33	184	215	113
3062.0	46	1816	1.53	49	50	173	222	205
3062.5	75	3119	1.50	66	67	152	228	359
3063.0	112	5090	1.39	82	84	151	234	627
3063.5	157	8051	1.25	99	101	141	240	1005

1978-SECTION PROPERTIES FROM SURVEY 1-1-1 TO 1-1-1 BY WAVE SECTS ALL FLOO
 SECTIONS AT DISTANCE 14.140 PART 2 OF 2

			AL 2-4			15W	25W	00
3054.0	411	12231	1.15	115	117	130	244	1508
3054.5	422	17901	1.05	132	134	119	251	2139
3055.0	433	25240	1.05	144	149	109	254	2899
3055.5	440	33433	1.07	141	143	99	250	3791
3056.0	503	43186	1.07	173	173	91	263	4836
3056.5	503	54717	1.07	182	184	84	268	6001
3057.0	534	65919	1.01	193	195	75	269	7287
3057.5	739	86294	1.01	205	207	67	272	8653
3058.0	892	106649	1.01	221	223	55	276	10094
3058.5	1098	127194	1.01	237	239	47	279	11689
3059.0	1129	148843	1.01	252	254	39	282	13443
3059.5	1255	174491	1.01	275	276	17	285	15363
3060.0	1376	204342	1.01	291	293	6	288	17374
3060.5	1491	237395	1.01	297	298	5	288	19031
3061.0	1555	272842	1.01	299	293	4	288	20594

1978-SECTION PROPERTIES FROM SURVEY 1-1-1 TO 1-1-1 BY WAVE SECTS ALL FLOO
 SECTIONS AT DISTANCE 14.150 PART 1 OF 1

			AL 2-4			15W	25W	00
3061.5	1671	310491	1.00	297	297	210	289	2226
3062.0	1787	351842	1.02	11	12	192	288	27
3062.5	1897	396393	1.03	21	20	187	285	30
3063.0	2003	444144	1.07	31	32	177	281	174
3063.5	2107	495095	1.07	41	42	164	273	264
3064.0	2209	549246	1.08	51	52	149	265	361
3064.5	2309	606597	1.08	61	62	131	256	465
3065.0	2407	667148	1.11	119	117	12	254	1356
3065.5	2503	730899	1.11	136	135	117	253	2311
3066.0	2597	797850	1.01	151	149	105	251	3266
3066.5	2689	868001	1.01	157	154	98	249	4221
3067.0	2779	941352	1.02	172	171	87	249	5176
3067.5	2867	1017903	1.01	187	184	83	245	6127
3068.0	2953	1097554	1.01	191	188	17	243	7078
3068.5	3037	1180305	1.01	195	194	73	239	8029
3069.0	3119	1266156	1.01	199	197	67	235	8980
3069.5	3200	1355007	1.01	199	194	65	230	9931
3070.0	3279	1446858	1.01	194	189	62	227	10882
3070.5	3357	1541709	1.01	189	183	59	221	11833
3071.0	3434	1639560	1.01	184	177	56	215	12784
3071.5	3510	1740411	1.01	179	169	52	207	13735
3072.0	3585	1844262	1.01	174	158	48	200	14686
3072.5	3659	1951113	1.01	169	146	44	192	15637
3073.0	3732	2060964	1.01	164	134	40	184	16588
3073.5	3804	2173815	1.01	159	121	36	175	17539
3074.0	3875	2289666	1.01	154	108	32	166	18490
3074.5	3945	2408517	1.01	149	95	28	157	19441
3075.0	4014	2530368	1.01	144	82	24	148	20392

CROSS-SECTION PROPERTIES FROM GAP CHECK 1-4.1 TO 1 ST TRV W/AFV SECTS ALL FLOW
 SECTION 3.2 AT DISTANCE = 14600 PART 1 OF 1

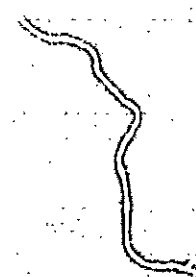
XS	Y	Z	ALPHA	B	C	LEW	DEW	CC
3066.0	0	0	1.00	3	3	102	100	1
3066.5	4	63	1.00	9	9	100	100	13
3067.0	9	234	1.00	12	12	106	111	43
3067.5	13	522	1.00	13	14	90	113	41
3068.0	22	905	1.00	14	15	99	112	152
3068.5	29	1384	1.00	15	17	97	113	227
3069.0	37	1966	1.01	19	21	97	245	299
3069.5	49	2682	1.35	25	27	96	242	373
3070.0	63	3621	1.88	31	34	95	250	463
3070.5	82	4915	1.15	46	49	91	250	580
3071.0	104	6810	1.62	146	149	80	266	839
3071.5	214	11512	1.55	191	194	83	274	1062
3072.0	317	18043	1.31	205	219	76	283	1904
3072.5	423	27074	1.20	224	227	68	293	3026
3073.0	541	39042	1.15	241	244	60	301	4284
3073.5	666	52227	1.13	255	259	55	316	5719
3074.0	798	67441	1.11	272	275	44	316	7361
3074.5	939	86049	1.11	283	286	36	317	9196
3075.0	1087	106177	1.11	294	298	28	323	11177
3075.5	1242	128273	1.11	305	308	21	328	13325
3076.0	1397	152557	1.11	315	318	16	330	15631
3076.5	1557	178767	1.13	325	329	7	332	18085
3077.0	1712	216902	1.12	335	339	0	335	20600
3077.5	1871	266648	1.12	339	343	0	338	23264
3078.0	2031	32821	1.11	349	353	0	347	26096
3078.5	2192	40182	1.11	358	362	0	348	29112
3079.0	2354	48752	1.09	367	371	0	349	32315
3079.5	2518	58541	1.13	376	380	0	350	35704

CROSS-SECTION PROPERTIES FROM GAP CHECK 1-4.1 TO 1 ST TRV W/AFV SECTS ALL FLOW
 SECTION 3.2 AT DISTANCE = 14600 PART 2 OF 1

XS	Y	Z	ALPHA	B	C	LEW	DEW	CC
3080.0	2684	69541	1.08	385	389	0	351	39115
3080.5	2854	81841	1.10	394	398	0	352	42315
3081.0	3024	95441	1.10	403	407	0	353	45615
3081.5	3194	110441	1.09	412	416	0	354	49015
3082.0	3364	126841	1.09	421	425	0	355	52515
3082.5	3534	144641	1.07	430	434	0	356	56115
3083.0	3704	163841	1.12	439	443	0	357	59815
3083.5	3874	184441	1.08	448	452	0	358	63615
3084.0	4044	206441	1.07	457	461	0	359	67515

CROSS-SECTION PROPERTIES FOR: GAGE AREA (1.00) TO 1.1ST TRY 47.50 SECTS. ALL FLOOD
 SECTION= 1 ALPHADISTANCE= 14875 GAGE 2.00

US	A	K	ALPHA	BO	LEW	DEF	OC
3075.0	277	15634	1.39	200	213	68	1544
3075.5	381	29093	1.34	217	220	71	2875
3076.0	474	35418	1.17	234	237	63	3765
3076.5	615	46798	1.19	251	255	55	4127
3077.0	745	61359	1.12	268	271	62	5676
3077.5	852	78648	1.11	279	282	39	3452
3078.0	1024	97975	1.11	295	293	31	10376
3078.5	1172	119346	1.11	311	304	24	12454
3079.0	1325	142756	1.11	311	314	17	14702
3079.5	1433	157174	1.12	321	322	15	17087
3080.0	1646	195571	1.12	331	335	3	15642
3080.5	1813	225499	1.12	337	341	0	22524
3081.0	1983	257723	1.12	340	345	0	25693
3081.5	2154	291431	1.11	344	349	3	26624
3082.0	2326	327846	1.11	347	352	0	32690
3082.5	2500	365610	1.10	350	356	0	36120



BASE 1 OF PROFILE NOTES FROM OLD DRECK 1-1 TO T. 1ST TRY 9/28/77 SECTS ALL FLDG
BASE 1 OF PROFILE NOTES FROM OLD DRECK 1-1 TO T. 1ST TRY 9/28/77 SECTS ALL FLDG

SECTION NUMBER (PARALLEL) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

1-1 : 1.00/100 < 0.7 OR > 1.4

ALERTED USER

1-1 : 1.00/100 LOW

USED WS MIN = 450

1-1 : 1.00/100 LOW

USED WS MIN = 450

1-1 : 1.00/100 LOW

USED WS MIN = 450

1-1 : WS NOT FOUND BETWEEN

WS = 3042.50 MASS = 3012.80

USED WS = 0.25

1-1 : WS NOT FOUND

ASSIGNED WS = 450

1-1 : 1.00/100 LOW

USED WS MIN = 450

1-2 : 1.00/100 < 0.7 OR > 1.4

ALERTED USER

1-2 : 1.00/100 < 0.7 OR > 1.4

ALERTED USER

1-2 : 1.00/100 LOW

USED WS MIN = 450

1-2 : 1.00/100 < 0.7 OR > 1.4

ALERTED USER

1-2 : 1.00/100 < 0.7 OR > 1.4

ALERTED USER

1-2 : WS NOT FOUND BETWEEN

CHECKED WS (-)

1-2 : 1.00/100 LOW

USED WS MIN = 450

1-2 : WS NOT FOUND AT END

WS = 3046.00 MASS = 3046.00

USED WS = 0.25

1-2 : WS NOT FOUND

ASSIGNED WS = 450

1-2 : 1.00/100 LOW

USED WS MIN = 450

1-2 : 1.00/100 < 0.7 OR > 1.4

ALERTED USER

1-2 : WS NOT FOUND BETWEEN

WS = 3036.00 MASS = 3036.00

USED HIGHER WS

1-2 : WS NOT FOUND BETWEEN

WS = 3046.00 MASS = 3046.00

USED WS = 0.25

1-2 : WS NOT FOUND

USED HIGHER WS

1-2 : WS NOT FOUND BETWEEN

WS = 3036.00 MASS = 3036.00

USED HIGHER WS

1-2 : WS NOT FOUND BETWEEN

WS = 3036.50 MASS = 3046.20

USED WS MIN = 450

1-2 : WS NOT FOUND

0 APP1 KU/KD < 0.7 OR > 1.4

ASSUMED WS = WSC ✓

0-0.11 WS TOO LOW

ALERTED USER

0-5.11 TOL FAILURE BETWEEN

USED WSMIN = WSC

WS = 3047.34 & WS = 3047.59

0+5.11 KU/KD < 0.7 OR > 1.4

USED HIGHER WS

0-0.11 WS TOO LOW

ALERTED USER

0-0.11 WS TOO LOW

USED WSMIN = WSC

0-0.11 WS NOT FOUND BETWEEN

USED WSMIN = WSC

WS = 3052.72 & WS = 3070.50

0-0.11 WS NOT FOUND

USED DEL = 10.25

0-0.63 WS TOO LOW

ASSUMED WS = WSC ✓

0-3.21 TOL FAILURE BETWEEN

USED WSMIN = WSC

WS = 3056.19 & WS = 3056.48

0-1.11 KU/KD < 0.7 OR > 1.4

USED HIGHER WS

ALERTED USER

10YR

WATER-SURFACE PROFILE FOR: GAP CREEK I-4.1 TO T.1ST TRY W/NEW SECTS ALL FLOOD
PAGE 1 OF 3, PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECTION	AT	RS ELEV	HV	HF	HF	EG	V	FS	ACC	RTQ*
I-4.1	AT	3500	0	956	129	15477	1.00	116	161	
		2976.53	0.44			2976.77	5.30	0.47		*15*
I	AT	4095	395	750	126	4395	1.00	114	167	
		2979.15	0.55	2.88	0.06	2979.71	5.97	0.59	0.005	*XS*
I+2.3	AT	4625	530	750	147	11472	1.00	117	158	
		2981.98	0.41	2.67	0.0	2982.39	5.11	0.48	0.002	*XS*
J-1W	AT	5187	552	750	136	8772	1.50	113	64	
		2984.98	0.48	3.03	0.03	2985.45	5.53	0.60	0.001	*XS*
===== BEGIN BRIDGE ANALYSIS =====										
K-1K	AT	5187		750	84	6351	1.00	0	30	
		2984.98	1.28	...	(-0.001)	8.95	0.79			*40*
===== NO EMBRACEMENT CROSS SECTION =====										
K-APP	AT	5290	103	750	125	7766	1.11	1247	308	
		2985.76	0.63	0.88	0.08	2986.38	6.02	0.60	0.000	*AS*
			0.07	0.15	0.12	138	8805	1.14	252	369
		2986.06	0.53			2986.52	5.44	0.53		*AS*
===== END BRIDGE ANALYSIS =====										
L-1	AT	5750	450	750	172	10762	1.39	83	302	
		2988.85	0.41	2.74	0.0	2989.26	6.35	0.48	0.002	*YS*
L-2	AT	6374	575	750	154	8045	1.00	90	156	
		2992.42	0.37	3.71	0.0	2992.78	4.87	0.58	0.000	*YS*
L-1	AT	6200	375	570	109	5788	1.00	137	210	
		2997.95	0.43	5.37	0.02	2998.38	5.23	0.53	0.000	*YS*
L-2	AT	7426	520	570	145	6089	1.62	189	22	
		3004.43	0.72	0.000000	0.000000	3005.01	7.57	0.55	0.000000	*YS*
L-1	AT	8115	720	570	154	5725	1.30	179	710	
		3011.54	0.26	0.53	0.0	3011.94	7.41	0.58	0.001	*YS*
L-2	AT	8700	520	570	213	8257	1.37	95	217	
		3015.53	0.15	1.71	0.0	3015.65	2.71	0.40	0.001	*YS*
L-1	AT	9110	740	570	140	4954	1.50	24	321	
		3018.49	0.51	1.27	0.38	3019.01	3.57	0.71	0.001	*XS*
L-1	AT	9520	530	570	126	7949	1.40	228	332	
		3023.03	0.44	4.80	0.06	3023.67	4.51	0.54	0.000	*YS*

WATER SURFACE PROFILE FOR: GAP CREEK T-4.1 TO T-1ST TRY W/NEW SECTS/ALL FLOOD
 PAGE 2 OF 3, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECTION	AT	WS FLEV	HV	HF	HE	FB	V	FM	ACC	RTD	
===== BEGIN BRIDGE ANALYSIS =====											
0	APP	9590	/	/	572	/	37	/	3013	/	1.00 / 0 / 21
		3023.80	/	0.87	/	0.00	/	6.58	/	0.57	/ *XS*
===== END BRIDGE ANALYSIS =====											
1	APP	9736	/	46	/	570	/	21	/	3595 / 1.15 / 277 / 364	
		3023.33	/	0.70	/	0.52	/	0.13	/	3024.52 / 6.26 / 0.61 / -0.001 *XS*	
2	APP	10080	/	344	/	570	/	115	/	7519 / 1.52 / 244 / 336	
		3024.42	/	0.29	/	0.00	/	3.46	/	0.40 / *XS*	
===== END BRIDGE ANALYSIS =====											
3	APP	10730	/	650	/	570	/	227	/	8581 / 2.47 / 119 / 500	
		3027.01	/	0.58	/	2.72	/	0.14	/	3027.59 / 4.96 / 0.65 / 0.009 *XS*	
4	APP	11369	/	650	/	450	/	39	/	4675 / 1.00 / 39 / 95	
		3032.74	/	0.26	/	0.00	/	3033.91	/	2.51 / 0.50 / *XS*	
5	APP	11400	/	40	/	450	/	51	/	2001 / 1.00 / 76 / 97	
		3036.79	/	1.20	/	0.00	/	3038.50	/	8.78 / 0.99 / *XS*	
6	APP	11430	/	30	/	450	/	05	/	5679 / 1.00 / 65 / 72	
		3037.40	/	0.44	/	0.37	/	0.0	/	3039.97 / 5.32 / 0.52 / 0.003 *XS*	
7	APP	12500	/	1170	/	450	/	155	/	6317 / 1.42 / 224 / 387	
		3047.34	/	0.16	/	6.60	/	0.0	/	3045.58 / 2.73 / 6.46 / 0.001 *XS*	
8	APP	12665	/	304	/	450	/	135	/	4065 / 1.50 / 234 / 396	
		3047.34	/	0.25	/	1.97	/	0.85	/	3047.60 / 9.33 / 0.89 / 0.002 *XS*	
9	APP	13300	/	395	/	450	/	85	/	3301 / 1.50 / 260 / 393	
		3052.01	/	0.57	/	4.88	/	0.21	/	3052.69 / 5.32 / 0.79 / 0.001 *XS*	
10	APP	13675	/	375	/	450	/	96	/	4172 / 1.45 / 166 / 291	
		3057.70	/	0.30	/	5.51	/	0.0	/	3058.19 / 4.70 / 0.70 / -0.001 *XS*	
11	APP	14060	/	385	/	450	/	98	/	3867 / 1.46 / 157 / 236	
		3062.72	/	0.87	/	0.00	/	3063.29	/	5.01 / 0.76 / *XS*	
12	APP	14350	/	200	/	450	/	92	/	3266 / 1.41 / 154 / 232	
		3066.44	/	0.46	/	3.61	/	0.0	/	3066.90 / 4.59 / 0.69 / -0.000 *XS*	
13	APP	14600	/	250	/	450	/	50	/	3283 / 1.07 / 95 / 249	
		3069.03	/	1.02	/	3.67	/	0.23	/	3070.45 / 7.81 / 0.87 / 0.008 *XS*	

OK

INRS STEP-BACK WATER PROGRAM - VERSION 17.188 800 PAGE COUNT = 31. DATE = 7/24/77

WATER-SURFACE PROFILE FOR: GAP CREEK 1 - 1510 EAST TOY A/R/W/SECS ALL FLOOD
PAGE 2 OF 3. PROFILE NUMBER 1. DISTANCE CALCULATION

=====

SECTION	DISTANCE	DEPTH	DISCHARGE	AREA	VELOCITY	ALPHA	FSM	DFW		
AS	ELEV	HW	HF	HF	EF	W	M	F	ACC	WID
1	14775	275	450	23	5000	1.16	91	253		
2	14773.72	2.53	3.30	0.0	3074.24	0.37	0.53	0.002	XS*	

=====

END OF THIS PROFILE

USGS STEP-BACK WATER PROGRAM - VERSION 77.120.000 PAGE COUNT= 32; DATE= 7/21/77

COMPUTER WSC VALUES FOR: C&P CREEK I-4.1 TO TRISTRY ZONE SECTS ALL FLOOD
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECTION	L-1	L-2	M	C-1	C	BENTH	DAM
WATER	2991.91	3036.80	3004.69	3011.50	3022.99	3032.74	3036.04
DEPTH	1.2-1	1.2-1	1.2-1	1.2-1	1.2-1	1.2-1	1.2-1
WATER	3045.14	3077.53	3077.53	3096.33			

PAGE 1 OF PROFILE NOTES FOR: GSR CREEK 1-4.1 TO T 1ST TRV X/NE SECTS ALL FLOOD
PROFILE NUMBER 2 - UPSTREAM COMPUTATIONS

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

L-1 : K1/K2 < 0.7 OR > 1.4 : 0 : ALERTED USER

L-1 : K1/K2 < 0.7 OR > 1.4 : : ALERTED USER

L-1 : WS TOO LOW : : USED WSMIN = WSC

L-2 : WS TOO LOW : : USED WSMIN = WSC

L-2 : WS NOT FOUND BETWEEN : : USED WSMIN = WSC

L-2 : WS NOT FOUND : WS = 3004.99 X WS = 3012.50 : USED DEL = 0.25

L-2 : WS TOO LOW : : ASSUMED WS = WSC ✓

L-2 : WS TOO LOW : : USED WSMIN = WSC

L-2 : K1/K2 < 0.7 OR > 1.4 : : ALERTED USER

L-2 : FROM FAILURE : : USED WSMIN = WSC

L-2 : WS TOO LOW : WS = 3015.04 X WS = 3017.70 : USED WSMIN = WSC

L-2 : WS NOT FOUND BETWEEN : : USED WSMIN = WSC

L-2 : WS NOT FOUND : WS = 3024.05 X WS = 3032.10 : USED DEL = 0.25

L-2 : WS NOT FOUND : : ASSUMED WS = WSC ✓

L-2 : K1/K2 < 0.7 OR > 1.4 : : ALERTED USER

L-2 : FROM FAILURE : WS = 3025.01 X WS = 3027.00 : USED WSMIN = WSC

L-2 : WS NOT FOUND BETWEEN : : USED WSMIN = WSC

L-2 : FROM FAILURE : WS = 3025.74 X WS = 3035.30 : USED DEL = 0.25

L-2 : FROM FAILURE : WS = 3025.04 X WS = 3034.00 : USED WSMIN = WSC

L-2 : WS NOT FOUND BETWEEN : : USED WSMIN = WSC

L-2 : WS NOT FOUND : WS = 3025.73 X WS = 3035.30 : USED WSMIN = WSC

L-2 : WS TOO LOW : : ASSUMED WS = WSC ✓

L-2 : WS TOO LOW : : USED WSMIN = WSC

L-2 : WS NOT FOUND BETWEEN : WS = 3033.00 X WS = 3040.40 : USED DEL = 0.25

L-2 : WS NOT FOUND : : ASSUMED WS = WSC ✓

L-2 : WS TOO LOW : : ASSUMED WS = WSC ✓

044TW: KU/KD < 0.7 OR > 1.4	USED MSNIN = WSC
045: WS NOT FOUND BETWEEN	ALERTED USER
045: WS NOT FOUND BETWEEN	WS = 3037.37 & WS = 3046.20
045: WS NOT FOUND	USED DEL = 0.25
045: WS NOT FOUND	USED MSNIN = WSC
045: WS NOT FOUND	ASSUMED WS = WSC ✓
045: WS NOT FOUND	ALERTED USER
045: WS NOT FOUND	USED MSNIN = WSC
045: WS NOT FOUND	ALERTED USER
045: WS NOT FOUND	ALERTED USER
045: WS NOT FOUND	WS = 3049.02 & WS = 3058.15
045: WS NOT FOUND	USED HIGHER WS
045: WS NOT FOUND	ALERTED USER
045: WS NOT FOUND	USED MSNIN = WSC
045: WS NOT FOUND	ALERTED USER
045: WS NOT FOUND	USED MSNIN = WSC
045: WS NOT FOUND BETWEEN	WS = 3063.37 & WS = 3070.80
045: WS NOT FOUND	USED DEL = 0.25
045: WS NOT FOUND	ASSUMED WS = WSC ✓
045: WS NOT FOUND	WS = 3063.37 & WS = 3063.63
045: WS NOT FOUND	USED HIGHER WS
045: WS NOT FOUND	ALERTED USER
045: WS NOT FOUND	ALERTED USER

USGS STEP-BACKWATER PROGRAM - VERSION 77.189 *** PAGE COUNT= 34, DATE= 7/21/77

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WATER-SURFACE PROFILE FOR: GAP CREEK 1-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
PAGE 1 OF 3. PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECTION	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
MS. ELEV	HV	HF	HE	FG	V	FN	ACC	#ID
1-4.1 AT	3500	0	1680	261	23161	1.22	114	261
2977.30	0.79			2979.89	5.43	0.60		#1S*

T	4095	505	1360	193	17509	1.01	115	272
2980.70	0.79	3.39	0.0	2981.48	7.04	0.52	0.001	#1S*

1-2	4625	530	1360	237	21353	1.13	114	256
2983.51	0.59	2.62	0.0	2994.09	5.74	0.52	-0.004	#XS*

1-TW	5187	502	1360	209	17134	1.09	12	70
2985.32	0.55	2.84	0.04	2985.98	6.52	0.61	0.003	#XS*

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

NO JK	5187		1360	112	4729	1.00	0	30
2985.32	2.29			2985.32	12.14	0.93		#R0P

NO EMBAIMENT CROSS SECTION

400	5290	103	1360	207	14362	1.23	232	313
2986.81	0.92	0.77	0.03	2987.93	16.55	0.52	-0.000	#65*

4	5290	103	1360	207	14362	1.23	232	313
2989.07	0.04			2990.01	1.37	0.15		#45*

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

4-1	5750	680	1360	553	33768	1.41	17	360
2990.24	0.13	0.42	0.05	2990.34	2.43	0.25	0.000	#XS*

1	5925	575	1360	378	19119	1.00	59	154
2992.97	0.91	3.11	0.39	2993.38	7.63	0.24	0.002	#XS*

1-1	6450	575	1360	245	17048	1.31	109	350
2995.09	0.35	0.42	0.0	2995.30	4.32	0.42	0.001	#XS*

1-2	7420	520	1060	229	9113	1.43	177	321
2994.93	0.67	#####	#####	3003.47	0.62	0.52	#####	#XS*

AT	8180	710	1060	291	12329	1.27	118	379
2997.32	1.24	7.11	0.0	3012.58	3.64	0.52	0.000	#XS*

4-2	8180	540	1060	205	13263	1.14	31	221
2997.41	0.25	3.57	0.0	3015.15	3.72	0.51	0.002	#XS*

AT	9110	410	1060	288	10554	1.32	59	370
2997.74	0.26	3.29	0.02	3019.46	3.64	0.50	0.007	#XS*

4-14	9695	300	1060	189	12355	1.49	206	340
2997.94	0.73	#####	#####	3024.69	5.59	0.71	#####	#XS*

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WATER-SURFACE PROFILE FOR: GAP CREEK 1-4.1 TO T-1ST TRY WHEN SECTS ALL FLOO
 CASE NO. 3, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECTION AT DISTANCE / LENGTH / DISCHARGE / AREA / CONVEYANCE / ALPHA / LFW / QSW
 WS ELEV / AV / HF / VE / FS / V / FR / ACC / ID*

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

0-0.0 AT 9590 / / / 693. / 87. / 3413. / 1.00 / 0. / 21.
 3023.50 / 1.33 / / / / 3.24 / 0.40 / *XS*

EMBANKMENT OVERFLOW (CRS) / LEFT / 27. / RIGHT / 48. / *PS*

0-APP AT 9750 / 46 / 1040. / 11. / 7519. / 1.48 / 149. / 381.
 3024.74 / 1.44 / 1.54 / 1.0 / 3025.23 / 4.59 / 0.54 / -0.006 *XS*

0-1-0000 AT 9850 / 45 / 1040. / 11. / 7519. / 1.48 / 149. / 381.
 3025.94 / 1.45 / 1.54 / 1.0 / 3026.03 / 4.59 / 0.54 / -0.006 *XS*

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

0-2-10000 AT 10000 / 344 / 1060. / 204. / 13183. / 1.70 / 282. / 364.
 3027.77 / 1.75 / / / / 5028.52 / 5.10 / 0.72 / *XS*

0-3-10730 AT 10730 / 650 / 1060. / 204. / 13183. / 1.70 / 282. / 364.
 3029.00 / 1.73 / / / / 3029.93 / 5.23 / 0.68 / *XS*

0-4-11300 AT 11300 / 630 / 830. / 147. / 8924. / 1.00 / 39. / 96.
 3037.54 / 1.50 / 4.71 / 0.04 / 3038.12 / 5.64 / 0.67 / 0.009 *XS*

0-5-11400 AT 11400 / 40 / 830. / 147. / 8924. / 1.00 / 74. / 98.
 3038.70 / 1.55 / / / / 3040.36 / 10.32 / 0.39 / *XS*

0-6-11430 AT 11430 / 30 / 830. / 147. / 8924. / 1.00 / 33. / 97.
 3040.41 / 1.07 / 0.18 / 0.0 / 3040.54 / 1.73 / 0.27 / -0.001 *XS*

0-7-12600 AT 12600 / 1170 / 830. / 147. / 8924. / 1.34 / 215. / 398.
 3045.58 / 1.40 / 5.25 / 0.17 / 3045.96 / 4.16 / 0.70 / -0.000 *XS*

0-8-12950 AT 12950 / 495 / 830. / 147. / 8924. / 1.21 / 195. / 400.
 3049.05 / 1.19 / 4.21 / 0.3 / 3049.33 / 3.11 / 0.45 / 0.002 *XS*

0-9-13350 AT 13350 / 355 / 830. / 124. / 4758. / 1.58 / 243. / 395. //
 3052.30 / 1.09 / 4.71 / 0.45 / 3051.48 / 6.58 / 1.03 / -0.001 *XS*

0-10-13618 AT 13618 / 315 / 830. / 179. / 9079. / 1.20 / 176. / 242.
 3053.41 / 0.40 / 5.07 / 0.0 / 3053.02 / 4.63 / 0.50 / 0.001 *XS*

0-11-14050 AT 14050 / 275 / 830. / 145. / 7185. / 1.20 / 144. / 238. //
 3061.37 / 0.45 / / / / 3061.03 / 5.73 / 0.15 / *XS*

0-12-14380 AT 14380 / 230 / 830. / 155. / 7725. / 1.24 / 139. / 239.
 3067.02 / 0.55 / 3.02 / 0.0 / 3067.63 / 5.34 / 0.71 / 0.002 *XS*

1-1.2 AT 14530 / 750 / 830. / 93. / 5372. / 1.03 / 90. / 261.
 3070.69 / 1.03 / 4.15 / 0.54 / 3072.32 / 8.88 / 1.02 / -0.001 *XS*

USGS STEP-BACKWATER PROGRAM - VERSION 73.100 *** PAGE COUNT= 36. DATE= 7/21/77

WATER-SURFACE PROFILE FOR: GAP CREEK T-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOO
PAGE 3 OF 3. PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

SECTION	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	VELOCITY	DEPTH	REVISION
NO	FLEV	HW	HF	HE	G	V	FN	ACC	ID*
T	AT	14875	275	800	237	12782	1.49	82	276
		3074.00	0.29	2.76	0.0	3075.08	3.51	0.44	0.000 *XS*

END OF THIS PROFILE

USGS STEP-BACK WATER PROGRAM - VERSION 77.001 - 489 PAGE COUNT - 37 DATE 7/21/77

COMPUTED WSC VALUES FOR: GAP CREEK 1-4.1 TWT 151 TYP 4/NEW SECTS ALL FLOOD
PROFILE NUMBER: 24 UPSTREAM COMPUTATIONS

SECTID	1-1	6-2	3	4-1	2-7	0	WATE	YAW
WSC	2997.94	3004.39	3011.95	3023.25	3027.77	3033.00	3076.92	3039.70

SECTID	4-2	6-1	5
WSC	3044.51	3054.27	3053.17

PROFILE NUMBER 1 OF STORM COMPUTATIONS

SECTION FROM (HARRING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

1-1	KU/KD < 0.7 OR > 1.4	ALERTED USER
1-1	KU/KD < 0.7 OR > 1.4	ALERTED USER
1-1	KU/KD < 0.7 OR > 1.4	ALERTED USER
1-1	WS TOO LOW	USED WS MIN = WSC
1-12	KU/KD < 0.7 OR > 1.4	ALERTED USER
1-2	WS TOO LOW	USED WS MIN = WSC
1-3	WS NOT FOUND BETWEEN	WS = 3005.24 & WS = 3012.40
1-3	WS NOT FOUND	USED DEL = 0.25
1-3	WS TOO LOW	ASSIGNED WS = WSC ✓
1-3	WS TOO LOW	USED WS MIN = WSC
1-3	FORM FAILURE	WS = 3010.30 & WS = 3010.10
1-3	WS TOO LOW	USED WS MIN = WSC
1-3	FORM FAILURE	WS = 3007.10 & WS = 3007.10
1-3	WS NOT FOUND BETWEEN	WS = 3005.00 & WS = 3005.30
1-3	WS TOO LOW	USED WS MIN = WSC
1-3	WS NOT FOUND BETWEEN	WS = 3007.10 & WS = 3007.10
1-3	WS NOT FOUND BETWEEN	WS = 3004.00 & WS = 3005.30
1-3	WS NOT FOUND	USED WS MIN = WSC
1-3	WS TOO LOW	ASSIGNED WS = WSC ✓
1-3	WS TOO LOW	USED WS MIN = WSC
1-3	WS NOT FOUND BETWEEN	WS = 3003.10 & WS = 3004.60
1-3	WS NOT FOUND	USED DEL = 0.25
1-3	WS NOT FOUND	ASSIGNED WS = WSC ✓
1-3	WS TOO LOW	USED WS MIN = WSC
1-3	DAMPE KU/KD < 0.7 OR > 1.4	ALERTED USER
1-3	WS NOT FOUND BETWEEN	WS = 3007.71 & WS = 3008.20

DAM: WS NOT FOUND BETWEEN

WS = 3037.71 & WS = 3046.20

USED DEL = 0.25

DAM: WS NOT FOUND

USED WSMIN = WSC

APP: KUZKO < 0.7 OR > 1.4

ASSUMED WS = WSC ✓

WS TOO LOW

ALERTED USER

WS NOT FOUND BETWEEN

USED WSMIN = WSC

WS NOT FOUND

WS = 3045.57 & WS = 3054.20

USED DEL = 0.25

APP: KUZKO < 0.7 OR > 1.4

ASSUMED WS = WSC ✓

WS FROM FAILURE

ALERTED USER

APP: KUZKO < 0.7 OR > 1.4

WS = 3040.75 & WS = 3049.40

USED HIGHER WS

WS TOO LOW

ALERTED USER

APP: KUZKO < 0.7 OR > 1.4

USED WSMIN = WSC

WS TOO LOW

ALERTED USER

WS NOT FOUND BETWEEN

USED WSMIN = WSC

WS NOT FOUND

WS = 3043.82 & WS = 3070.80

USED DEL = 0.25

WS FROM FAILURE

ASSUMED WS = WSC ✓

APP: KUZKO < 0.7 OR > 1.4

WS = 3053.22 & WS = 3054.11

USED HIGHER WS

APP: KUZKO < 0.7 OR > 1.4

ALERTED USER

ALERTED USER

10042

WATER-SURFACE PROFILE FOR: GAP CREEK I-4.1 TO I-151 TRY W/NEW SECTS ALL FLOOD
 PAGE 1 OF 34 PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

=====

SECT	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LFW	NEW
HS	FLEV	HV	HF	HF	FG	V	FN	ACC	BID*

=====

1-4.1	AT	3540	/	0	/	2019	/	341	/	30026	/	1.39	/	71	/	268
2977.79	/	0.75	/		/	2978.64	/	5.89	/	0.59	/		/		/	0.15*

1	AT	4095	/	595	/	1550	/	219	/	19855	/	1.08	/	114	/	267
2981.93	/	0.95	/	3.34	/	0.10	/	2981.98	/	7.54	/	0.69	/	-0.000	/	0.25*

1-2.3	AT	4625	/	538	/	1650	/	313	/	27661	/	1.33	/	74	/	266
2984.04	/	1.59	/	2.63	/	0.0	/	2984.61	/	5.27	/	0.51	/	-0.000	/	0.25*

1-14	AT	5187	/	562	/	1650	/	231	/	20030	/	1.00	/	12	/	271
2986.69	/	0.80	/	2.75	/	0.11	/	2987.49	/	7.15	/	0.64	/	0.003	/	0.25*

===== SECTION BRIDGE ANALYSIS =====

1-14	AT	5187	/		/	1650	/	170	/	10736	/	1.00	/	0	/	30
2986.69	/	2.94	/		/	...	/	(-0.001)	/	13.75	/	1.32	/		/	0.00*

===== NO EMBANKMENT CROSS SECTION =====

1-5PP	AT	5290	/	103	/	1650	/	255	/	15606	/	1.61	/	125	/	314
2987.44	/	0.47	/	2.84	/	0.09	/	2988.41	/	5.23	/	0.45	/	-0.002	/	0.25*

1-1	AT	5790	/	103	/	1650	/	255	/	15606	/	1.61	/	125	/	314
2991.11	/	0.02	/		/		/	2991.13	/	1.10	/	0.41	/		/	0.15*

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

1-1	AT	5790	/	460	/	1650	/	403	/	56663	/	1.23	/	21	/	349
2991.23	/	0.06	/	0.15	/	0.02	/	2991.26	/	1.13	/	0.12	/	0.000	/	0.25*

1-2	AT	5425	/	575	/	1550	/	170	/	10180	/	1.00	/	24	/	135
2992.00	/	1.10	/	2.19	/	0.13	/	2992.31	/	4.22	/	1.01	/	-0.002	/	0.25*

1-1T	AT	5930	/	675	/	1300	/	172	/	13657	/	1.45	/	79	/	307
2992.56	/	0.21	/	0.51	/	0.0	/	2992.31	/	3.59	/	0.34	/	-0.004	/	0.25*

1-2	AT	7420	/	820	/	1300	/	219	/	12171	/	1.47	/	27	/	439
3005.25	/	0.40	/	0.00000	/	0.00000	/	3005.55	/	4.16	/	0.47	/	0.000000	/	0.25*

1-1	AT	8100	/	740	/	1300	/	317	/	14471	/	1.26	/	143	/	341
3012.47	/	0.33	/	1.10	/	0.0	/	3012.75	/	6.10	/	0.50	/	-0.000	/	0.25*

1-2	AT	8700	/	540	/	1300	/	334	/	17373	/	1.35	/	31	/	224
3015.17	/	0.25	/	3.05	/	0.0	/	3015.52	/	3.43	/	0.51	/	0.000	/	0.25*

1-1	AT	9110	/	410	/	1300	/	323	/	12841	/	1.25	/	48	/	337
3019.31	/	0.31	/	3.17	/	0.03	/	3019.93	/	4.60	/	0.64	/	0.003	/	0.25*

1-14	AT	9650	/	700	/	1300	/	225	/	15095	/	1.53	/	122	/	343
3024.22	/	0.72	/	5.14	/	0.24	/	3025.01	/	5.75	/	0.74	/	0.007	/	0.25*



WATER-SURFACE PROFILE FOR: GAP CREEK 1-4.1 TO 1ST TNY W/NEW SECTS ALL FLOOD
 PAGE 2 OF 3, PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

=====

SECT ID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	REF	REF
MS ELEV	BY	HF	HE	SS	V	FM	ACC	STD

=====

BEGIN BRIDGE ANALYSIS

BT ON AT 9600 / / 807. / 0.27 / 3813. / 1.00 / 0. / 21.
 3023.60 / 1.34 / (-.001) / 8.29 / 0.90 / 8208

EMBANKMENT OVERFLOW (CFS) / LEFT 391. / RIGHT 79. / 4708

APP AT 9735 / 46 / 1300. / 326. / 11531. / 1.03 / 119. / 389.
 3025.12 / 0.43 / 0.45 / 0.0 / 3025.45 / 3.99 / 0.45 / -0.008 8258

BT ON AT 9870 / 46 / 1300. / 326. / 11531. / 1.03 / 119. / 389.
 3026.25 / 0.06 / / 3025.31 / 1.48 / 0.28 / 8258

END BRIDGE ANALYSIS

BT ON AT 10000 / 344 / 1300. / 251. / 16346. / 1.03 / 180. / 347.
 3028.08 / 0.76 / / 3028.84 / 5.13 / 0.72 / 8258

BT ON AT 10730 / 450 / 1300. / 375. / 16238. / 1.00 / 107. / 502.
 3033.12 / 0.35 / / 3033.48 / 3.45 / 0.53 / 8258

BT ON AT 11350 / 630 / 1030. / 165. / 10420. / 1.00 / 30. / 46.
 3037.95 / 0.40 / / 3033.55 / 6.24 / 0.54 / 0.002 8258

BT ON AT 11400 / 80 / 1030. / 94. / 8902. / 1.00 / 74. / 98.
 3039.25 / 1.07 / / 3041.12 / 10.95 / 1.00 / 8258

BT ON AT 11500 / 33 / 1030. / 400. / 8070. / 1.10 / 32. / 60.
 3041.39 / 0.07 / 0.09 / 0.0 / 3041.21 / 1.13 / 0.14 / 0.001 8258

BT ON AT 12500 / 1170 / 1030. / 212. / 8729. / 1.22 / 205. / 498.
 3045.7 / 0.49 / / 3045.16 / 2.96 / 0.77 / 8258

BT ON AT 12800 / 105 / 1030. / 410. / 14000. / 1.13 / 40. / 40.
 3047.29 / 0.19 / 0.22 / 0.0 / 3047.49 / 3.24 / 0.48 / 0.001 8258

BT ON AT 13000 / 140 / 1030. / 141. / 8470. / 1.53 / 57. / 306.
 3052.47 / 0.70 / 1.05 / 0.0 / 3051.03 / 7.10 / 1.00 / 8258

BT ON AT 13575 / 225 / 1030. / 213. / 12377. / 1.14 / 130. / 248.
 3055.82 / 0.44 / 5.70 / 0.0 / 3055.33 / 6.35 / 0.41 / 0.001 8258

BT ON AT 14050 / 345 / 1030. / 180. / 9076. / 1.22 / 130. / 201.
 3063.52 / 0.70 / / 3064.32 / 6.38 / 0.79 / 8258

BT ON AT 14550 / 290 / 1030. / 191. / 9590. / 1.19 / 139. / 242.
 3070.22 / 0.40 / 3.65 / 0.0 / 3067.92 / 5.69 / 0.74 / 0.001 8258

BT ON AT 14600 / 250 / 1030. / 124. / 6591. / 1.60 / 89. / 265.
 3070.95 / 1.72 / 4.21 / 0.55 / 3072.68 / 4.32 / 1.04 / -0.005 8258

USGS STEP-BACKWATER PROGRAM - VERSION 77.140 *** PAGE COUNT= 41 DATE= 7/21/77

WATER-SURFACE PROFILE FOR: GAP CREEK 1-4-1 TO T. 1ST TRY W/NEW SECTS ALL FLOOD
PAGE 3 OF 3. PROFILE NUMBER 3. UPSTREAM COMPUTATIONS.

```
=====
SECID / AT DISTANCE / LENGTH / DISCHARGE / AREA / CONVEYANCE / ALPHA / LEM / REM
MS FLEV / BV / HF / HE / FS / V / FN / ACC / SID
=====
T AT 14875 / 275 / 1030. / 291. / 16700. / 1.36 / 78. / 280.
3075.07 / 0.27 / 2.65 / 0.0 / 3075.34 / 3.54 / 0.47 / 0.000 *YS*
```

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 42, DATE= 7/21/77

COMPUTED WSC VALUES FOR: GAP CREEK I-4.1 TO T 1ST TRY W/NEW SECTS ALL FLOOD
PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECTID	L-1	L-2	M	O-T	P-2	Q	DAMTH	DAM
WSC	2998.39	3005.25	3012.13	3024.19	3028.00	3033.12	3037.22	3039.25
SECTID	R-2.1	S-5.1	S					
WSC	3045.67	3058.52	3063.62					

AREA 1 OF PROFILE NOTES FOR GAP CREEK T-1.1 TO T-1.11 TRY W/NEW SECTIS ALL FLOOD
PROFILE NUMBER = 000 IDEAM COMPUTATIONS

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

T-1.1 : KU/KD < 0.7 OR > 1.4 : ALERTED USER

T-2.13 : KU/KD < 0.7 OR > 1.4 : ALERTED USER

T-1.4 : KU/KD < 0.7 OR > 1.4 : ALERTED USER

K-1001 : KU/KD < 0.7 OR > 1.4 : ALERTED USER

K-APP1 : WS > DELTA (P) : ALERTED USER

K-APP1 : MAX GSD < DT (23) : CHECKED GSD (2)

K-APP1 : ROAD NOT CODED : CHECKED GSD

K-APP1 : LEFT BANK EXTENDED : ASSUMED WS = GMAX

A-1.1 : KU/KD < 0.7 OR > 1.4 : ALERTED USER

A-1.2 : KU/KD < 0.7 OR > 1.4 : ALERTED USER

A-1.3 : 100% FAILURE BETWEEN : ALERTED USER

A-1.4 : WS = 2003.47 & WS = 2004.12 : USED HIGHER WS

A-1.5 : KU/KD < 0.7 OR > 1.4 : ALERTED USER

A-1.6 : 100% FAILURE : USED HIGHER WS

A-1.7 : WS = 2001.75 & WS = 2004.51 : USED HIGHER WS

A-1.8 : KU/KD < 0.7 OR > 1.4 : ALERTED USER

A-1.9 : WS TOO LOW : USED WS IN = 50

A-1.10 : 100% FAILURE BETWEEN : ALERTED USER

A-1.11 : WS = 2017.00 & WS = 2017.00 : USED HIGHER WS

A-1.12 : WS TOO LOW : USED WS IN = 50

A-1.13 : WS NOT FOUND BETWEEN : USED WS IN = 50

A-1.14 : WS = 2024.01 & WS = 2012.10 : USED DEL = 0.25

A-1.15 : WS NOT FOUND BETWEEN : ASSUMED WS = 400

A-1.16 : WS NOT FOUND BETWEEN : CHECKED GSD

A-1.17 : WS = 2026.69 & WS = 2035.30 : USED DEL = 0.25

A-1.18 : WS = 2026.69 & WS = 2035.30

P-3 : WS NOT FOUND BETWEEN

ASSUMED WS = WSC ✓

Q : TOL FAILURE BETWEEN

WS = 3029.30 & WS = 3029.44

USE HIGHER WS

QANT: WS TOO LOW

USED WSMIN = WSC

Q-1 : WS NOT FOUND BETWEEN

WS = 3034.67 & WS = 3046.20

USE DEL = 0.25

Q-2 : WS NOT FOUND BETWEEN

WS = 3038.67 & WS = 3046.20

USE WSMIN = WSC

QANT: WS NOT FOUND

ASSUMED WS = WSC ✓

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

ALERTED USER

Q-2.1: WS NOT FOUND BETWEEN

WS = 3042.70 & WS = 3054.40

USED DEL = 0.25

Q-2.1.1: WS NOT FOUND BETWEEN

WS = 3042.70 & WS = 3054.40

USED WSMIN = WSC

Q-2.1: WS NOT FOUND

ASSUMED WS = WSC ✓

Q : KU/KD < 0.7 OR > 1.4

ALERTED USER

Q-5.1: FROM FAILURE

WS = 3050.15 & WS = 15.20

USED HIGHER WS

Q-5.1: KU/KD < 0.7 OR > 1.4

ALERTED USER

Q-5.1: WS TOO LOW

USED WSMIN = WSC

Q-5.1: KU/KD < 0.7 OR > 1.4

ALERTED USER

Q : FROM FAILURE

WS = 3061.10 & WS = 14.50

USED HIGHER WS

Q : KU/KD < 0.7 OR > 1.4

ALERTED USER

Q-1.1: FROM FAILURE

WS = 3064.40 & WS = 22.70

USED HIGHER WS

Q-1.1: KU/KD < 0.7 OR > 1.4

ALERTED USER

Q-1.1: FROM FAILURE

WS = 3068.14 & WS = 0.00

USE HIGHER WS

Q-1.1: FROM FAILURE

WS = 3071.20 & WS = 1.20

USE HIGHER WS

Q-1.1: WS NOT FOUND BETWEEN

WS = 3077.50 & WS = 3079.30

USED DEL = 0.25

MISSISSIPPI STEP-BACKWATER PROGRAM - VERSION 77.184 #PAGE COUNT= 44, DATE= 7/21/77

PAGE 2 OF PROFILE NOTES FOR GAP CREEK 1-4.1 TO TRIST TRY #NEW SECS ALL FLOW
PROFILE NUMBER 242 UPSTREAM COMPUTATIONS

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

T-3.21 FLOW FAILURE

WS = 3055.14 S = 0.001

USE HIGHER WS

T-3.21 FLOW FAILURE

WS = 3071.22 S = 1.211

USE HIGHER WS

T-3.21 WS NOT FOUND BETWEEN

WS = 3057.86 S = 3072.301

USE WS IN = WSC

T-3.21 WS NOT FOUND

ASSUMED WS = WSC ✓

WATER SURFACE PROFILE FOR: GAP CREEK 1-4.1 TO 1-151 TYP. W/NEW SECTS ALL FLOOD
 PAGE 11 OF 3. PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

=====

SECTION	DIST.	CH/	LENGTH	DISCHARGE	AREA	COEFFICIENT	ALPHA	LEW	FCW
MS ELEV	W	HE	HE	FE	V	FM	ACC	#ID	
1-4.1 AT	3500	0	3080	660	66019	1.47	41	267	
2979.23	0.50			2979.23	4.66	0.46			*XS*

1-1 AT	4095	595	2560	282	20532	1.27	114	263	
2981.54	1.53	2.87	0.57	2982.17	4.66	0.86	0.001		*XS*

1-2.3 AT	4625	530	2560	588	54213	1.51	549	282	
2945.24	0.48	2.55	0.0	2985.72	4.50	-0.45	0.002		*XS*

1-10 AT	5107	562	2560	175	25955	1.00	11	75	
2997.41	1.35	2.60	0.44	2998.75	0.40	0.79	0.002		*XS*

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

NO. OF AT 5107 / / 1431 / / 241 / / 21580 / / 1.00 / / 0 / / 0.30

2992.40 / / 0.71 / / ... (-.001) / / 6.77 / / 0.35 / / *XS*

===== NO. OF BRANKMENT CROSS SECTION =====

APP AT 5200 / / 103 / / 2560 / / 631 / / 44485 / / 1.36 / / 63 / / 374

2982.94 / / 0.35 / / 0.59 / / 0.0 / / 2982.134 / / 4.00 / / 0.45 / / -0.002 *XS*

HE = 4880 / / FE = 4880 / / VE = 4880 / / 2879 / / 298464 / / 1.21 / / 0 / / 600

2943.30 / / 0.42 / / / / 2983.82 / / 0.96 / / 0.09 / / *XS*

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

1-1 AT 5750 / / 450 / / 2560 / / 1747 / / 18858 / / 1.08 / / 5 / / 464

2993.35 / / 0.05 / / 0.06 / / 0.01 / / 2993.39 / / 0.42 / / 0.12 / / -0.000 *XS*

1-1 AT 6305 / / 575 / / 2560 / / 243 / / 16342 / / 1.00 / / 00 / / 163

2953.87 / / 1.73 / / 1.37 / / 0.05 / / 2996.60 / / 19.55 / / 1.03 / / 0.000 *XS*

1-1 AT 6500 / / 575 / / 2050 / / 582 / / 32091 / / 1.30 / / 40 / / 600

3001.13 / / 0.24 / / 5.23 / / 0.0 / / 3001.43 / / 2.46 / / 0.34 / / -0.000 *XS*

1-2 AT 7470 / / 520 / / 2050 / / 177 / / 15286 / / 1.39 / / 44 / / 445

3005.49 / / 0.64 / / 4.45 / / 0.20 / / 3005.09 / / 5.44 / / 0.86 / / 0.004 *XS*

1-1 AT 8160 / / 740 / / 2050 / / 184 / / 27571 / / 1.19 / / 02 / / 344

3013.11 / / 0.33 / / 1.35 / / 0.0 / / 3013.44 / / 4.11 / / 0.54 / / 0.000 *XS*

1-2 AT 8760 / / 540 / / 2050 / / 403 / / 23747 / / 1.03 / / 30 / / 227

3016.62 / / 0.41 / / 3.43 / / 0.04 / / 3016.94 / / 5.09 / / 0.42 / / 0.001 *XS*

1-1 AT 9110 / / 410 / / 2050 / / 045 / / 22749 / / 1.39 / / 42 / / 350

3019.79 / / 0.33 / / 3.13 / / 0.0 / / 3020.12 / / 4.33 / / 0.59 / / -0.001 *XS*

1-1 AT 9600 / / 500 / / 2050 / / 352 / / 24820 / / 1.50 / / 143 / / 353

3024.91 / / 0.95 / / ***** / / 3025.76 / / 5.63 / / 0.75 / / ***** *XS*

WATER-SURFACE PROFILE FOR: GAP CREEK 1-4-1 TO T 1ST TRY W/NEW SECTS ALL FLOO
 PAGE 2 OF 3. PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

SECTION AT DISTANCE / LENGTH / DISCHARGE / AREA / CONVEYANCE / ALPHA / LFU / PEN
 ELEV / HV / W / HF / FG / V / FM / ACC #10*

===== PRIOR ANALYSIS =====

3023.60 / 1.35 / ... (-.001) / 8.33 / 0.81 / 490*

EMBANKMENT OVERFLOW (CFS) / LEFT / RIGHT

3025.34 / 0.25 / 0.32 / 0.0 / 3026.08 / 5.84 / 0.54 / -0.002 *AS*

3026.94 / 0.09 / 3027.07 / 2.29 / 0.28 / *AS*

3028.29 / 0.66 / 3028.37 / 4.84 / 0.57 / *SX*

3033.36 / 0.50 / 4.27 / 0.00 / 3033.85 / 4.36 / 0.61 / 0.003 *XS*

3035.77 / 0.57 / 5.72 / 0.15 / 3039.74 / 7.25 / 0.57 / 0.003 *XS*

3040.57 / 2.02 / 3043.91 / 12.47 / 0.99 / *SX*

3043.04 / 0.01 / 0.04 / 0.0 / 3043.04 / 0.79 / 0.08 / -0.000 *XS*

3046.06 / 0.57 / 3046.61 / 5.58 / 0.91 / *XS*

3048.79 / 0.28 / 2.35 / 0.0 / 3049.07 / 3.29 / 0.50 / 0.001 *XS*

3052.53 / 1.19 / 4.50 / 0.46 / 3054.63 / 7.45 / 1.07 / 0.002 *XS*

3059.39 / 0.53 / 5.96 / 0.0 / 3059.77 / 8.91 / 0.72 / -0.001 *XS*

3063.33 / 1.13 / 4.81 / 0.27 / 3065.35 / 7.91 / 1.00 / -0.001 *XS*

3068.11 / 0.55 / 5.60 / 0.0 / 3068.66 / 8.75 / 0.71 / 0.008 *XS*

3071.91 / 0.50 / 3072.51 / 5.37 / 0.71 / *XS*

USGS STEP-BACKWATER PROGRAM - VERSION 77.130 *** PAGE COUNT = 47, DATE = 7/21/77

WATER-SURFACE PROFILE FOR: GAP CREEK (1-4-1) TO T 1ST TRY W/NEW SECTS ALL FLOOD
PAGE 3 OF 3, PROFILE NUMBER 44, UPSTREAM COMPUTATIONS

```
=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / R/W
MS ELEV /  HV /  HE /  HE /  FG /  V /  FS /  ACC  *ID*
=====
T  AT  14875 /  275 /  1600. /  242. /  13133. /  1.48 /  P1. /  275.
1074.HP /  1.01 /  3.12 /  0.20 /  3075.43 /  6.61 /  0.84 /  0.000 *YS*
```

END OF THIS PROFILE

USGS STEP-BAC-WATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 43. DATE= 7/21/77

COMPUTED WSC VALUES FOR: GAR CREEK 1-4.1 TO T 1ST TRY WHEN SECTS ALL FLOOD
PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

SECT	0-T	0-2	DAM	0-1	5-5.1	T-3.2		
WSC	3012.57	3024.91	3028.89	3037.97	3040.59	3048.05	3059.06	3071.91

*** INPUT CARD PRINTOUT ***

ALL FLOODS
K-1 to END

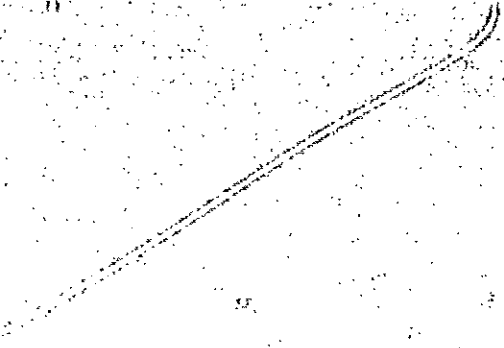
	1	2	3	4	5	6	7	8
1	1	GAP CREEK	SECT K1 TO W	ALL	2ND	13	8	01 05 10
2	2	299885	299024	299123	299335	-99999	-99999	-99999 -99999
3	1449	K-1	22	3	2984	5750	99	99
4	1450	750	1360	1550	2560	750	1350	1650 2560
5	1451	-15	1	29948	0	1	29926	50 1 29894 75 2 29883 80 2 29868
5	1452	85	2	29848	87	2	29836	91 2 29833 97 2 29839 100 2 29839
5	1453	102	2	29844	198	2	29860	111 2 29863 112 3 29894 150 3 29888
5	1454	200	3	29885	250	3	29886	300 3 29888 350 3 29899 400 3 29916
5	1455	450	3	29929	500	3	29948	
6	1456	1	2	045 035	1	2	045 045	1 2 040 040
3	1470	L-2	8	0	17	3	2986	6000 99 99 06
5	1472	0	1	29975	25	1	29929	55 1 29919 87 2 29920 92 2 29883
5	1473	112	2	29866	116	2	29860	118 2 29860 124 2 29866 180 2 29886
5	1474	171	3	29926	214	3	29928	252 3 29933 261 3 29935 300 3 29936
5	1475	352	3	29953	434	3	29981	
6	1476	1	2	045 045	2	5	050 045	1 2 045 045
3	1500	L	0	17	3	2989	6325	99 99
5	1505	0	1	30003	25	1	29957	55 1 29947 87 2 29948 92 2 29911
5	1506	112	2	29894	116	2	29888	118 2 29886 124 2 29894 150 2 29914
5	1507	171	3	29954	214	3	29956	252 3 29961 281 3 29963 300 3 29964
5	1508	352	3	29981	434	3	30009	
6	1510	1	2	045 045	2	5	050 045	1 2 045 045
3	1530	L-1	1	21	3	2994	6900	99 99
4	1531	570	1060	1300	2050	570	1060	1300 2050
5	1532	0	1	30058	50	1	30010	100 1 30002 150 1 30007 162 2 30003
5	1533	182	2	29965	192	2	29955	192 2 29947 194 2 29943 198 2 29933
5	1534	206	2	29942	215	2	29954	220 3 29999 232 2 30005 250 3 30000
5	1535	309	3	29969	359	3	29975	400 3 30006 440 3 30032 500 3 30042
5	1536	524	3	30059				
6	1537	1	2	045 035	2	4	050 060	1 2 045 035
3	1550	L-2	0	19	3	3001	7420	99 99
5	1555	-40	1	30126	0	1	30089	50 1 30059 100 1 30051 150 1 30057
5	1556	800	1	30044	250	1	30042	300 1 30041 350 1 30040 392 2 30052
5	1557	395	2	30036	377	2	30021	401 2 30013 455 2 30006 493 2 30009
5	1558	415	3	30046	450	3	30054	475 3 30033 500 3 30125
6	1560	1	2	040 035	1	2	050 050	2 2 045 040
3	1600	1	19	3	3008	8100	99 99	
4	1601	570	1060	1300	2050	570	1060	1300 2050
5	1605	0	1	30187	57	1	30136	115 1 30120 150 2 30115 155 2 30045
5	1606	157	2	30076	158	2	30070	162 2 30072 164 2 30070 166 2 30076
5	1607	167	2	30094	185	2	30103	200 3 30114 243 3 30110 291 3 30111
5	1608	300	3	30113	341	3	30124	350 3 30148 395 3 30172
6	1610	1	2	035 035	2	5	050 035	1 2 045 045
3	1650	L-2	0	16	3	3012	4700	99 99
5	1652	0	1	30223	40	1	30145	50 1 30144 55 2 30141 59 2 3013

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8							
.....	0	5	0	5	0	5	0	5							
5 1653	62	2	30110	65	2	30110	69	2	30116	70	3	30142	77	3	30148
5 1654	100	3	30151	148	3	30139	200	3	30146	215	3	30153	235	3	30173
5 1655	248	3	30223												
6 1660	1	2	040 035	1	2	050 050	1	2	045 040						
3 1700	M	0	19 3 3015			9110	99	99							
5 1705	0	1	30253	31	1	30208	49	1	30192	118	1	30182	145	1	30182
5 1706	180	1	30182	207	2	30185	217	2	30171	219	2	30147	220	2	30143
5 1707	222	2	30143	224	2	30144	225	2	30150	231	3	30182	279	3	30177
5 1708	306	3	30179	350	3	30198	394	3	30211	412	3	30250			
6 1710	1	2	045 035	1	2	045 045	1	2	045 035						
3 1800	0-TW	0	15 3 3020			9690	99	99							
5 1805	0	1	30310	22	1	30289	25	1	30288	35	1	30273	45	1	30270
5 1806	130	1	30251	200	1	30241	285	1	30221	287	2	30205	289	2	30198
5 1807	294	2	30199	304	2	30197	308	2	30202	311	3	30235	324	3	30229
5 1808	359	3	30253	383	3	30290	396	3	30321						
6 1810	1	2	035 035	1	5	045 035	1	2	035 035						
3 1900	80-OP	2	6 1 3019			9690		0	30235	3 0					
5 1905	0	1	30236	0	1	30214	3	1	30205	6	1	30195	10	1	30184
5 1906	21	1	30194	21	1	30234	0	-9	30236						
6 1910	1	2	050 050												
3 2000	ROAD	4	8 3 24			1	3	2 2 2					2		
5 2005	0	1	30310	100	1	30278	200	1	30260	300	1	30252	364	2	30250
5 2006	385	3	30249	400	3	30252	500	3	30315						
3 2100	W APP	5	22 3 3019			9736	1	3							
5 2105	0	1	30315	80	1	30267	120	1	30251	200	1	30241	250	1	30242
5 2106	300	1	30235	309	1	30237	320	1	30249	335	1	30239	339	2	30228
5 2107	341	2	30207	345	2	30185	349	2	30185	352	2	30186	354	2	30207
5 2108	360	3	30226	364	3	30238	385	3	30250	403	3	30255	415	3	30261
5 2109	420	3	30245	450	3	30312									
6 2110	1	2	050 040	2	4	050 080	1	2	055 055						
3 2150	5-2	0	19 3 3023			10080	99	99							
5 2155	50	1	30351	0	1	30325	50	1	30299	100	1	30287	150	1	30285
5 2156	290	1	30278	250	1	30269	280	2	30261	283	2	30252	291	2	30243
5 2157	292	2	30229	295	2	30225	299	2	30224	302	2	30230	306	3	30252
5 2158	329	3	30263	346	3	30280	350	3	30285	378	3	30353			
6 2160	1	2	045 035	1	2	050 035	1	2	045 035						
3 2200	0	19	3 3029			10730	99	99							
5 2205	0	1	30404	44	1	30372	100	1	30335	128	2	30319	134	2	30296
5 2206	136	2	30283	139	2	30283	145	2	30294	152	3	30310	200	3	30321
5 2207	300	3	30325	400	3	30326	425	3	30322	487	3	30306	489	3	30304
5 2208	491	3	30305	493	3	30316	501	3	3033	560	3	30404			
6 2210	1	2	035 035	2	4	045 035	1	2	040 035						

PAGE 1 OF EDITING NOTES FOR: GAP CREEK SECT K1 TO Q ALL 2ND

SECID	ERROR SEVERITY	FIRST VARIABLE NO.	ERROR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
K-1	WARNING	TYPE	WRONG		I
L-2.B	WARNING	HSUBO	IS LESS THAN	GMIN	> GMIN
H0 DP	WARNING	STATION	IS LESS THAN	STATION	7



USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 4, DATE= 8/31/77

INPUT SUMMARY FOR: GAP CREEK SECT K1 TO K4 ALL 2ND

13 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 14 TYPE 3 CARDS

KEPT 14 CROSS SECTIONS FOR EDITING

14 " " VALID FOR PROPERTY COMPUTATIONS

14 " " " " PROFILE " "

U

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT. K1 TO Q ALL 2ND
 SECID=K-1 AT DISTANCE= 5750 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2984.0	3	27	1.00	14	14	86	100	6
2984.5	10	243	1.00	17	17	85	102	46
2985.0	19	626	1.00	20	20	84	104	109
2985.5	30	1173	1.00	23	24	83	106	196
2986.0	42	1898	1.00	26	27	82	108	306
2986.5	57	2783	1.00	30	31	81	111	440
2987.0	72	3996	1.00	32	33	79	111	616
2987.5	89	5380	1.00	34	36	78	111	815
2988.0	106	6952	1.00	36	38	76	112	1037
2988.5	125	8813	1.01	41	44	70	212	1224
2989.0	205	12115	1.56	225	228	59	309	892
2989.5	334	18419	1.73	283	287	48	332	1565
2990.0	483	28013	1.56	312	316	41	353	2728
2990.5	645	40636	1.39	335	338	33	368	4307
2991.0	818	56152	1.27	357	361	25	382	6223
2991.5	1002	74642	1.19	380	384	17	397	8447
2992.0	1199	95764	1.15	407	411	9	417	10889
2992.5	1410	119256	1.12	436	440	2	438	13570
2993.0	1634	146766	1.10	458	461	-2	455	16708
2993.5	1867	178228	1.08	474	477	-5	468	20255
2994.0	2108	212698	1.06	490	493	-9	480	24065
2994.5	2356	250185	1.05	505	509	-12	493	28138
2994.8	2599	274125	1.05	515	519	-14	500	30708

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT. K1 TO Q ALL 2ND
 SECID=L-2.8 AT DISTANCE= 6000 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2986.5	3	41	1.00	10	10	113	123	10
2987.0	11	206	1.00	22	22	107	129	44
2987.5	25	604	1.00	34	34	101	136	121
2988.0	45	1319	1.00	47	47	96	142	253
2988.5	72	2472	1.00	57	57	92	149	455
2989.0	101	4201	1.00	61	62	91	152	739
2989.5	133	6360	1.00	64	65	90	155	1079
2990.0	166	9012	1.00	68	69	90	157	1469
2990.5	200	12119	1.00	71	72	89	160	1907
2991.0	236	15695	1.00	74	76	88	163	2394
2991.5	274	19756	1.00	78	79	86	165	2928
2992.0	316	24330	1.01	116	118	82	168	2942
2992.5	378	30070	1.05	133	135	37	170	3467
2993.0	463	37842	1.19	205	207	24	229	3621
2993.5	577	47567	1.31	259	261	22	281	4270

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT K1 TO Q
 SECID=L-2.B AT DISTANCE= 6000 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
2994.0	719	59415	1.39	293	295	19	312	5412
2994.5	870	73606	1.41	311	313	16	328	6952
2995.0	1030	89943	1.40	329	331	14	343	8734
2995.5	1199	108430	1.38	347	349	11	358	10755
2996.0	1377	129079	1.36	364	367	8	373	13015
2996.5	1563	151892	1.34	382	384	5	387	15502
2997.0	1759	176899	1.32	399	401	3	402	18217
2997.5	1962	204139	1.30	416	419	0	416	21160
2998.0	2174	234236	1.28	431	434	0	431	24438
2998.1	2218	240525	1.28	434	437	0	434	25121

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT KJ TO Q
 SECID=L AT DISTANCE= 6325 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2989.0	1	14	1.00	6	6	115	121	3
2989.5	6	108	1.00	14	15	111	125	24
2990.0	17	360	1.00	27	27	105	132	75
2990.5	33	682	1.00	39	39	99	138	173
2991.0	56	1752	1.00	52	52	93	145	330
2991.5	84	3153	1.00	59	59	91	151	569
2992.0	114	5074	1.00	62	63	91	153	879
2992.5	146	7440	1.00	66	66	90	156	1240
2993.0	180	10282	1.00	69	70	89	158	1650
2993.5	215	13593	1.00	72	74	89	161	2109
2994.0	252	17360	1.00	76	77	88	164	2615
2994.5	291	21628	1.00	79	81	87	166	3169
2995.0	341	26606	1.04	123	125	46	169	3147
2995.5	408	32980	1.11	162	163	31	193	3481
2996.0	507	41782	1.24	221	223	23	244	3912
2996.5	633	52093	1.36	282	284	21	303	4619
2997.0	779	64974	1.40	300	302	18	318	6009
2997.5	934	80034	1.41	318	320	15	334	7647
2998.0	1097	97230	1.39	336	339	12	349	9522
2998.5	1270	116599	1.37	354	356	10	364	11643
2999.0	1451	138117	1.35	371	374	7	378	13994
2999.5	1641	161809	1.33	389	391	4	393	16372
3000.0	1840	187709	1.31	406	408	2	408	19379
3000.5	2047	216102	1.30	422	425	0	422	22458
3000.9	2219	240741	1.28	434	437	0	434	25136

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT K1 TO 0
 SECID=L-1 AT DISTANCE= 6900 ALL 2ND
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2994.0	3	46	1.00	9	9	195	204	11
2994.5	9	196	1.00	25	15	193	208	41
2995.0	18	501	1.00	20	21	192	212	99
2995.5	29	982	1.00	23	24	192	215	186
2996.0	42	1571	1.00	29	30	187	216	289
2996.5	58	2372	1.00	34	36	182	216	426
2997.0	75	3526	1.00	35	37	182	217	625
2997.5	93	4681	1.00	35	38	182	217	850
2998.0	110	5890	1.00	36	40	182	218	1098
2998.5	128	7139	1.00	36	41	182	218	1368
2999.0	147	8421	1.01	50	55	182	308	1433
2999.5	189	10394	1.18	115	121	182	350	1264
3000.0	258	13541	1.33	183	169	182	373	1596
3000.5	361	18349	1.44	278	295	81	395	1940
3001.0	525	27412	1.37	356	363	50	406	3089
3001.5	707	37650	1.20	369	376	45	414	5065
3002.0	895	60664	1.10	382	389	40	422	7412
3002.5	1089	83088	1.04	395	402	34	429	10065
3003.0	1289	108366	1.02	408	415	29	437	12900
3003.5	1499	133627	1.01	434	441	24	458	15741
3004.0	1724	160904	1.00	469	476	19	488	18738
3004.5	1966	194873	1.00	491	498	14	504	22315
3005.0	2214	234225	1.00	503	510	8	511	26340
3005.5	2469	276949	1.00	515	522	3	518	30620
3005.9	2677	313879	1.00	524	531	0	524	34263

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT K1 TO 0
 SECID=L-2 AT DISTANCE= 7420 ALL 2ND
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3001.0	2	26	1.00	10	10	403	413	6
3001.5	8	176	1.00	14	14	400	414	37
3002.0	16	452	1.00	17	17	397	414	89
3002.5	25	885	1.00	18	19	397	415	165
3003.0	34	1441	1.00	19	21	396	416	260
3003.5	44	2104	1.00	20	22	396	417	372
3004.0	55	2837	1.00	22	24	395	417	492
3004.5	121	4634	1.71	195	198	196	418	416
3005.0	231	9210	1.42	246	249	177	431	1065
3005.5	397	16324	1.37	379	381	44	447	1971
3006.0	600	29708	1.16	415	418	37	452	3791
3006.5	810	49505	1.08	425	427	31	455	6114
3007.0	1025	73348	1.06	434	437	24	458	8676

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT KI TO Q
 SECID=L-2 AT DISTANCE= 7420

ALL 2ND
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3007.5	1244	99510	1.06	443	446	18	461	11492
3008.0	1468	128876	1.06	453	456	12	464	14545
3008.5	1697	161407	1.07	462	465	5	467	17836
3009.0	1930	197009	1.08	472	474	0	470	21356
3009.5	2168	235585	1.08	481	484	-7	473	25098
3010.0	2411	277059	1.09	491	494	-13	477	29032
3010.5	2659	321398	1.10	502	505	-20	481	33142
3011.0	2913	368720	1.10	513	516	-26	486	37471
3011.5	3173	419122	1.11	524	528	-33	491	42034
3012.0	3438	472449	1.11	535	539	-39	495	46808
3012.5	3706	532583	1.12	549	544	-39	500	52033

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT KI TO D
 SECID=M AT DISTANCE= 8160

ALL 2ND
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3008.0	8	186	1.00	9	10	157	166	39
3008.5	12	395	1.00	10	11	157	167	79
3009.0	18	658	1.00	11	12	156	167	129
3009.5	23	896	1.00	13	15	156	169	174
3010.0	32	1090	1.00	25	27	155	179	212
3010.5	47	1657	1.00	35	37	153	188	314
3011.0	67	2565	1.00	43	46	152	195	473
3011.5	128	4484	1.31	157	160	150	307	874
3012.0	229	8787	1.29	210	213	116	326	1125
3012.5	339	13608	1.29	291	294	101	341	1996
3013.0	458	20248	1.20	256	261	35	363	3166
3013.5	592	27492	1.19	275	278	70	345	4515
3014.0	730	37556	1.19	265	268	62	347	6105
3014.5	877	50925	1.20	299	297	55	349	7333
3015.0	1026	69519	1.20	302	305	49	351	9610
3015.5	1179	111681	1.17	319	313	42	352	12056
3016.0	1335	149777	1.15	318	321	35	353	14473
3016.5	1496	197891	1.14	325	329	29	354	17058
3017.0	1661	257014	1.13	333	337	22	346	19807
3017.5	1829	316334	1.12	340	344	15	356	22750
3018.0	2001	377760	1.11	347	351	9	356	25872
3018.5	2170	441173	1.10	353	359	3	356	29150
3019.0	2247	495194	1.10	358	361	0	356	30507

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT K1 TO 0
 SECID=M-2 AT DISTANCE= 8700 ALL 2ND
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3012.5	7	155	1.00	9	9	61	69	32
3012.5	11	339	1.00	9	11	60	69	68
3013.0	16	579	1.00	10	12	59	70	113
3013.5	21	878	1.00	11	13	59	70	169
3014.0	28	1230	1.04	23	26	58	155	169
3014.5	57	2017	1.73	102	105	40	193	183
3015.0	121	4101	1.74	159	163	37	209	455
3015.5	210	8232	1.33	182	185	35	217	1106
3016.0	303	14653	1.11	190	193	32	222	2057
3016.5	399	23335	1.03	197	200	30	227	3168
3017.0	500	33510	1.01	205	208	27	232	4399
3017.5	604	45004	1.01	211	214	25	236	5781
3018.0	710	58264	1.00	215	218	22	237	7322
3018.5	819	72993	1.00	219	222	19	238	8984
3019.0	929	89154	1.00	222	225	17	239	10766
3019.5	1041	106719	1.00	226	230	14	241	12662
3020.0	1155	125666	1.00	230	234	12	242	14670
3020.5	1271	145977	1.00	234	238	9	243	16789
3021.0	1389	167639	1.00	238	242	7	245	19016
3021.5	1509	190642	1.00	242	246	4	246	21349
3022.0	1631	214976	1.00	246	250	2	247	23788
3022.5	1705	230219	1.00	248	253	0	248	25302

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT K1 TO 0
 SECID=M AT DISTANCE= 9110 ALL 2ND
 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3015.0	3	74	1.00	6	6	219	224	15
3015.5	6	190	1.00	6	7	218	225	36
3016.0	10	347	1.00	7	9	218	225	64
3016.5	14	533	1.00	9	11	217	226	97
3017.0	19	785	1.00	11	13	217	228	139
3017.5	25	1046	1.00	15	17	214	229	182
3018.0	42	1542	1.34	72	75	211	303	158
3018.5	116	3422	1.72	218	221	97	316	367
3019.0	238	8151	1.40	266	269	63	329	1074
3019.5	380	16061	1.19	295	299	46	342	2240
3020.0	533	28418	1.06	317	319	40	357	3816
3020.5	697	45836	1.01	339	342	34	370	5632
3021.0	872	65271	1.01	361	364	30	391	7664
3021.5	1056	88218	1.00	370	372	26	396	10099
3022.0	1242	114314	1.00	375	378	23	398	12800
3022.5	1431	143434	1.00	381	384	19	400	15719

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT KI TO Q
 SECID=N AT DISTANCE= 9110

ALL 2ND
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3023.0	1623	175191	1.00	387	390	16	403	18848
3023.5	1818	209615	1.00	393	396	12	405	22178
3024.0	2015	246649	1.00	398	402	9	407	25706
3024.5	2216	286246	1.00	404	408	6	410	29424
3025.0	2420	326373	1.00	410	413	2	412	33330
3025.3	2543	355408	1.00	412	416	0	412	35817

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT KI TO Q
 SECID=0-TW AT DISTANCE= 9690

ALL 2ND
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3020.0	3	35	1.00	18	18	288	306	8
3020.5	13	316	1.00	21	22	287	308	59
3021.0	24	841	1.01	22	23	286	309	142
3021.5	36	1597	1.01	23	25	286	309	247
3022.0	48	2578	1.02	25	26	285	310	373
3022.5	63	3808	1.11	42	44	268	318	418
3023.0	90	5633	1.26	67	69	247	325	527
3023.5	134	8407	1.42	107	109	225	333	711
3024.0	194	12763	1.50	136	139	204	340	1079
3024.5	272	18542	1.57	175	178	172	347	1531
3025.0	370	26452	1.61	218	220	137	355	2159
3025.5	487	36948	1.52	248	251	112	360	3139
3025.0	618	49898	1.42	274	276	90	364	4409
3026.5	761	65286	1.35	299	302	67	367	5916
3027.0	917	83252	1.30	325	327	45	370	7665
3027.5	1084	105326	1.24	340	342	34	373	9877
3028.0	1256	131184	1.18	346	349	39	377	12477
3028.5	1430	159628	1.14	353	355	27	380	15273
3029.0	1609	189847	1.12	362	365	21	383	18170
3029.5	1792	223154	1.10	367	372	16	385	21326
3030.0	1978	253903	1.09	377	380	10	387	24602
3030.5	2168	297072	1.08	384	387	5	389	28176
3031.0	2362	337649	1.07	391	394	0	391	31864
3031.5	2558	383127	1.06	393	397	0	393	35983
3032.0	2756	430983	1.05	396	400	0	396	40259
3032.1	2793	440524	1.05	396	400	0	396	41131

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT KI TO 0 ALL 2ND
 SECID=80 OP AT DISTANCE= 9690 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3019.0	3	35	1.00	9	9	8	17	8
3019.5	9	182	1.00	15	15	6	21	38
3020.0	17	484	1.00	17	17	5	21	95
3020.5	25	899	1.00	18	19	3	21	170
3021.0	35	1417	1.00	20	22	1	21	262
3021.5	45	2055	1.00	21	24	0	21	373
3022.0	55	2836	1.00	21	25	0	21	511
3022.5	66	3687	1.00	21	26	0	21	663
3023.0	76	4597	1.00	21	27	0	21	828
3023.5	86	5448	1.00	10	34	0	21	1408
3024.0	87	3810	1.00	0	49	0	21	0

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT KI TO 0 ALL 2ND
 SECID=P APP AT DISTANCE= 9730 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3019.0	4	69	1.00	9	9	344	353	15
3019.5	10	230	1.00	10	11	343	353	47
3020.0	14	463	1.00	11	13	342	354	91
3020.5	20	760	1.00	13	14	341	354	146
3021.0	27	1122	1.00	14	16	341	355	210
3021.5	35	1500	1.00	16	19	340	357	286
3022.0	43	1884	1.00	18	21	340	358	376
3022.5	53	2310	1.00	20	23	339	360	483
3023.0	64	2760	1.01	23	26	338	361	608
3023.5	75	3227	1.03	27	30	336	361	720
3024.0	104	3882	1.23	31	35	264	368	897
3024.5	179	5920	1.55	139	202	168	376	775
3025.0	294	10020	1.38	257	261	128	385	1515
3025.5	432	15900	1.18	293	297	110	403	2766
3026.0	584	27827	1.06	310	319	97	413	4374
3026.5	746	42079	1.05	331	334	85	416	6218
3027.0	915	58478	1.04	341	345	75	416	8314
3027.5	1080	75707	1.04	350	354	67	417	10638
3028.0	1257	97149	1.04	359	359	58	418	13170
3028.5	1447	119758	1.05	359	373	50	419	15937
3029.0	1634	144501	1.05	378	387	42	419	18844
3029.5	1825	171350	1.05	387	391	33	420	21979
3030.0	2022	198837	1.05	404	409	25	420	26945
3030.5	2220	228086	1.07	421	426	17	438	25121
3031.0	2443	266902	1.08	438	443	8	446	31511
3031.5	2680	296492	1.08	450	455	0	450	35422

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT K1 TO 0
 SECID=P-2 AT DISTANCE= 10080

ALL 2ND
 PART 1 OF 1

XS	A	K	ALPHA	B	P	LEW	REW	QC
3023.0	4	58	1.00	10	10	292	302	13
3023.5	9	228	1.00	11	12	292	303	46
3024.0	15	517	1.00	12	13	291	303	93
3024.5	21	884	1.00	15	16	289	304	145
3025.0	30	1317	1.00	20	21	285	305	208
3025.5	41	2184	1.00	23	25	282	305	307
3026.0	53	3485	1.00	25	27	280	306	432
3026.5	75	5053	1.21	66	68	265	331	411
3027.0	114	7458	1.51	92	94	244	336	587
3027.5	168	10806	1.73	124	127	217	341	840
3028.0	239	15491	1.83	160	163	186	346	1221
3028.5	329	21961	1.83	200	202	150	350	1769
3029.0	451	30816	1.84	265	267	87	352	2462
3029.5	589	43756	1.61	287	290	67	354	3767
3030.0	739	60920	1.40	308	311	48	356	5490
3030.5	896	81094	1.27	320	322	38	358	7542
3031.0	1058	102893	1.21	331	334	29	360	9746
3031.5	1227	127235	1.17	343	346	19	362	12164
3032.0	1461	154101	1.14	355	358	10	364	14786
3032.5	1582	183490	1.12	366	369	0	366	17610
3033.0	1768	215395	1.10	378	381	-9	369	20632
3033.5	1960	249830	1.09	390	393	-18	371	23852
3034.0	2158	286812	1.08	401	405	-28	373	27270
3034.5	2361	326361	1.07	413	416	-37	375	30886
3035.0	2571	368500	1.07	425	428	-47	377	34702
3035.5	2698	396900	1.06	428	431	-49	378	37292

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT K1 TO W
 SECID=W AT DISTANCE= 10730

ALL 2ND
 PART 1 OF 2

XS	A	K	ALPHA	B	P	LEW	REW	QC
3029.0	4	76	1.00	8	8	135	144	15
3029.5	9	234	1.00	11	12	134	145	43
3030.0	15	500	1.00	14	14	133	147	87
3030.5	23	890	1.01	19	19	132	149	140
3031.0	34	1430	1.05	25	26	130	152	218
3031.5	47	2199	1.05	29	31	129	153	333
3032.0	66	3190	1.26	68	70	126	155	511
3032.5	140	5734	2.16	259	262	117	158	897
3033.0	327	13481	2.05	392	395	109	161	1385
3033.5	527	26888	1.50	405	407	100	165	2128
3034.0	732	40213	1.24	417	419	92	169	3053
3034.5	943	70567	1.15	428	431	85	173	4003

CROSS-SECTION PROPERTIES FOR: GAP CREEK SECT K1 TO Q
 SECID=0 AT DISTANCE= 10730 ALL 2ND
 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEN	REW	QC
3035.0	1160	97104	1.11	440	442	77	517	10162
3035.5	1383	127355	1.08	451	454	70	521	13197
3036.0	1611	161221	1.07	463	465	62	525	16496
3036.5	1846	198630	1.06	474	477	55	529	20052
3037.0	2086	239531	1.06	486	489	47	533	23858
3037.5	2332	283952	1.05	497	500	40	537	27926
3038.0	2583	331828	1.05	508	511	33	541	32247
3038.5	2839	383097	1.05	519	522	26	545	36808
3039.0	3101	437744	1.05	530	532	19	549	41607
3039.5	3369	495760	1.05	540	543	12	553	46641
3040.0	3642	557142	1.05	551	554	5	557	51909
3040.4	3864	608679	1.05	560	563	0	560	56294

PAGE 1 OF PROFILE NOTES, FORT GAP CREEK, SECT K1 TO Q, ALL 2ND
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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

L-1	; WS TOO LOW		USED WSMIN = WSC
L-2	; WS TOO LOW		USED WSMIN = WSC
L-2	; WS NOT FOUND BETWEEN		USED WSMIN = WSC
		WS = 3004.69 & WS = 3012.50	
L-2	; WS NOT FOUND		USED DEL = 0.25
			ASSUMED WS = WSC
	; WS TOO LOW		USED WSMIN = WSC
L-2	; KU/KD < 0.7 OR > 1.4		ALERTED USER
			ALERTED USER
	; WS TOO LOW		USED WSMIN = WSC
	; KU/KD < 0.7 OR > 1.4		ALERTED USER
	; WS > BELM (1)		ALERTED USER
	; WS TOO LOW		CHECKED QBD (2)
	; WS NOT FOUND BETWEEN		USED WSMIN = WSC
		WS = 3032.74 & WS = 3040.40	
	; WS NOT FOUND		USED DEL = 0.25
			ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: GAP GREEK SECT K1 TO 0 ALL 2ND
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

10-year

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
K-1	AT	5750	0	750	173	10801	1.40	63	302
2988.85		0.41			2989.26	4.33	0.48		*IS*
L-2.8	AT	6000	250	750	162	10458	1.00	89	159
2990.24		0.26	1.24	0.0	2990.51	4.12	0.45	0.003	*XS*
L-1	AT	6325	325	750	167	7888	1.00	90	156
2992.51		0.40	2.33	0.07	2992.91	5.10	0.60	0.003	*XS*
L-1	AT	6900	575	570	113	6035	1.00	182	218
2998.06		0.40	5.54	0.0	2998.46	5.07	0.50	0.001	*XS*
L-2	AT	7420	520	570	160	6059	1.62	189	421
3004.62		0.32	*****	*****	3005.01	3.57	0.55	*****	*XS*
L-1	AT	8150	740	570	155	5725	1.30	138	314
3011.68		0.26	6.93	0.0	3014.04	3.61	0.56	0.001	*XS*
L-2	AT	8700	540	570	210	8257	1.33	35	217
3015.50		0.15	3.71	0.0	3015.65	2.71	0.40	0.001	*XS*
L-1	AT	9110	410	570	150	4935	1.59	84	321
3018.69		0.31	3.27	0.08	3019.91	3.57	0.71	0.001	*XS*
L-1	AT	9690	580	570	126	7529	1.40	228	332
3023.43		0.44	4.80	0.06	3023.87	4.51	0.55	0.000	*XS*
***** REGION BRIDGE ANALYSIS *****									
80 UP	AT	9690		572	37	3613	1.00	0	21
3023.60		0.67	...	(-0.001)		5.55	0.51		*XS*
***** MEASUREMENT OVERFLOW (CFS) / LEFT *****									
L-1	AT	9735	45	570	91	3095	1.15	277	364
3023.51		0.18	0.52	0.15	3024.52	6.25	0.51	-0.001	*XS*
L-1	AT	9735	45	570	91	3095	1.15	277	364
3024.48		0.18			3024.11	3041	0.40		*XS*
***** END BRIDGE ANALYSIS *****									
L-2	AT	10000	260	570	115	1314	1.52	240	350
3027.47		0.35	2.12	0.14	3028.59	4.95	4.02	0.001	*XS*
L-1	AT	10750	750	570	221	3581	2.41	113	500
3032.14		0.24	*****	*****	3032.75	2.51	0.50	*****	*XS*

*APPROX. 10' P.S.
 SEE DRAWINGS FOR*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: GAP CREEK SECT K1 TO Q
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

ALL 2ND

SECID	L-1	L-2	M	O-T	Q
WSC	2996.89	3004.69	3011.50	3022.49	3032.74

PAGE 1 OF PROFILE NOTES FOR: GAP CREEK SECT K1 TO 0 ALL 2ND
PROFILE NUMBER 2. UPSTREAM COMPUTATIONS

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

L-2.81	KU/KD < 0.7 OR > 1.4			ALERTED USER
L-1	TOL FAILURE BETWEEN	WS = 2993.67 & WS = 2993.871		USED HIGHER WS
L-1	KU/KD < 0.7 OR > 1.4			ALERTED USER
L-2	WS TOO LOW			USED WSMIN = WSC
M	WS TOO LOW			USED WSMIN = WSC
V	FRON FAILURE	WS = 3016.05 & FR = 15.73		USED HIGHER WS
N	KU/KD < 0.7 OR > 1.4			ALERTED USER
O-1	WS TOO LOW			USED WSMIN = WSC
P-1	APPR KU/KD < 0.7 OR > 1.4			ALERTED USER
P-2	FRON FAILURE	WS = 3026.93 & FR = 1.29		USED HIGHER WS
P-2	WS NOT FOUND BETWEEN	WS = 3025.71 & WS = 3035.30		USED DEL = 0.25
P-2	FRON FAILURE	WS = 3026.93 & FR = 1.29		USED HIGHER WS
P-2	WS NOT FOUND BETWEEN	WS = 3025.71 & WS = 3035.30		USED WSMIN = WSC
P-2	WS NOT FOUND			ASSUMED WS = WSC
V	WS TOO LOW			USED WSMIN = WSC
O	WS NOT FOUND BETWEEN	WS = 3033.00 & WS = 3040.40		USED DEL = 0.25
P	WS NOT FOUND			ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: GAP CREEK SECT K1 TO 0 507 ALL 2ND
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

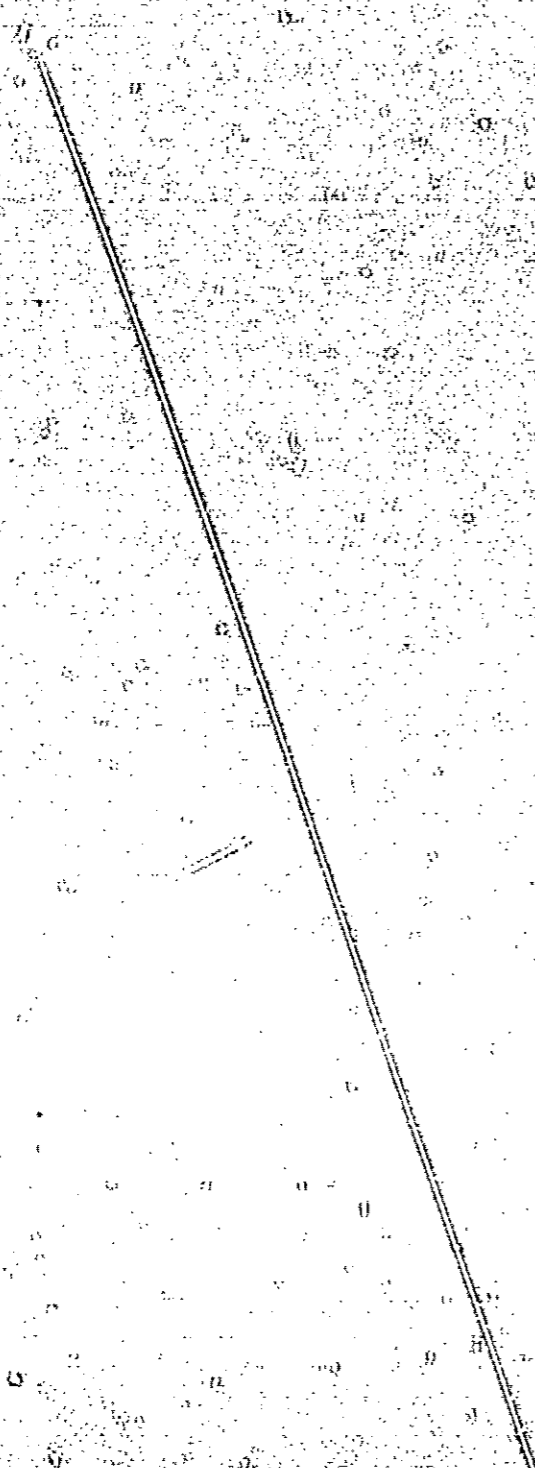
SECTION	AT	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
L-1	AT	5750	0	1360	550	33706	1.47	37	360	
		2990.24	0.14			2990.38	2.43	0.29		*IS*
L-2	AT	6000	250	1360	5199	15915	1.00	88	163	
		2991.03	0.51	0.86	0.30	2991.53	5.70	0.56	0.001	*XS*
L-3	AT	6325	325	1360	224	14431	1.00	89	162	
		2993.62	0.57	2.62	0.03	2994.19	6.07	0.61	0.005	*XS*
L-4	AT	6900	575	1060	180	10023	1.14	182	344	
		2999.42	0.62	5.82	0.02	3000.04	5.88	0.54	0.005	*XS*
L-5	AT	7420	520	1060	279	10668	1.52	48	436	
		3005.16	0.34	5.46	0.0	3005.50	3.80	0.61	0.000	*XS*
P-1	AT	8160	740	1060	252	11117	1.28	110	308	
		3012.19	0.32	7.01	0.0	3012.52	4.04	0.53	0.004	*XS*
X-1	AT	8700	540	1060	304	14760	1.13	32	222	
		3015.01	0.29	3.70	0.0	3016.22	3.49	0.47	0.000	*XS*
R-1	AT	9110	410	1060	273	9827	1.34	54	332	
		3019.13	0.31	3.18	0.05	3019.45	3.88	0.64	-0.000	*XS*
L-6	AT	9690	580	1060	199	13072	1.50	203	340	
		3024.93	0.66	5.07	0.17	3024.69	5.34	0.68	-0.000	*XS*
===== BEGIN BRIDGE ANALYSIS =====										
BO ON	AT	9690		787	87	3813	1.00	0	21	
		3023.60	1.27	...	...	9.05	0.78			*BO*
===== EMBANKMENT OVERFLOW (CFS) / LEFT 216. / RIGHT 47. / *BO* =====										
APP	AT	9735	45	1060	222	7352	1.50	152	360	
		3024.70	0.53	0.54	0.0	3025.23	4.77	0.56	0.002	*AS*
		3023.96	0.18			3025.02	1.85	0.20		*AS*
===== END BRIDGE ANALYSIS =====										
L-7	AT	10000	340	1060	204	13153	1.79	202	344	
		3027.44	0.75	.....	.....	3028.52	5.19	0.72	.....	*XS*
L-8	AT	10735	550	1060	324	13544	2.05	167	501	
		3033.09	0.33	.....	.....	3033.33	3.23	0.48	.....	*AS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: GAP CREEK SECT K1 TO 0
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

ALL 2ND

SECTID	L-2	M-2	O-TW	P-2	U
WSC	3004.99	3011.96	3023.96	3027.77	3033.00



SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS (IF ANY)	ACTION TAKEN
L-2.8	KU/KD < 0.7 OR > 1.4		ALERTED USER
L-1	TOL FAILURE BETWEEN	WS = 2993.75 & WS = 2994.00	USED HIGHER WS
L-2	WS TOO LOW		USED WSMIN = WSC
M	WS TOO LOW		USED WSMIN = WSC
M-2	KU/KD < 0.7 OR > 1.4		ALERTED USER
N	FRDN FAILURE	WS = 3016.51 & FR = 13.42	USED HIGHER WS
N	KU/KD < 0.7 OR > 1.4		ALERTED USER
O-TV	WS TOO LOW		USED WSMIN = WSC
P-2	FRDN FAILURE	WS = 3025.93 & FR = 1.58	USED HIGHER WS
P-2	FRDN FAILURE	WS = 3026.95 & FR = 1.56	USED HIGHER WS
H-2	WS NOT FOUND BETWEEN	WS = 3026.04 & WS = 3035.30	USED DEL = 0.25
P-2	FRDN FAILURE	WS = 3026.94 & FR = 1.56	USED HIGHER WS
P-2	WS NOT FOUND BETWEEN	WS = 3026.14 & WS = 3035.30	USED WSMIN = WSC
P-2	WS NOT FOUND		ASSUMED WS = WSC
Q	WS TOO LOW		USED WSMIN = WSC
Q	WS NOT FOUND BETWEEN	WS = 3033.12 & WS = 3040.40	USED DEL = 0.25
Q	WS NOT FOUND		ASSUMED WS = WSC

10076

WATER-SURFACE PROFILE FOR: GAP CREEK SECT K1 TO 0 ALL 2ND
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECTION	AT	W	HF	HE	EG	V	FN	ACC	%ID
1-1	5750	0	1650	901	64278	1.23	21	389	
	2991.23	0.06		2991.29	1.83	0.19			*15*
1-2	6000	239	1650	286	21016	1.00	87	166	
	2991.64	0.52	0.50	0.35	2992.16	5.78	0.53	0.001	*XS*
1-3	6325	325	1650	252	17362	1.00	88	164	
	2992.03	0.65	2.42	0.07	2994.67	6.54	0.63	0.004	*XS*
1-4	6900	575	1300	234	12436	1.29	122	366	
	2999.85	0.62	5.79	0.0	3000.47	5.55	0.54	0.007	*XS*
1-5	7420	520	1300	342	13586	1.43	46	442	
	3005.35	0.32	5.20	0.0	3005.67	3.80	0.61	0.002	*XS*
1-6	8150	150	1300	290	13118	1.27	106	339	
	3012.34	0.38	7.02	0.03	3012.72	4.39	0.63	0.004	*XS*
1-7	8700	590	1300	344	18561	1.96	31	224	
	3016.24	0.23	3.75	0.9	3016.47	3.73	0.58	0.002	*XS*
1-8	9110	410	1300	315	12080	1.27	48	336	
	3019.23	0.34	3.09	0.05	3019.62	4.12	0.66	0.000	*XS*
1-9	9690	580	1300	233	15634	1.54	188	344	
	3024.27	0.74	5.19	0.20	3025.01	5.37	0.71	0.000	*XS*
===== BEGIN BRIDGE ANALYSIS =====									
BRIDGE	9890		895	87	3813	1.00	0	21	
	3023.90	1.33	...	...	3023.90	...	...	...	*XS*
CAPACITIES OVER FLOWS (CFS) / LEFT 415 / RIGHT 43 /									
1-10	9735	95	1300	322	11152	1.34	120	309	
	3025.11	0.35	0.44	0.0	3025.45	4.09	0.55	0.002	*XS*
1-11	10000	344	1300	291	16345	1.43	180	347	
	3026.24	0.36	...	...	3026.35	1.92	0.25	...	*XS*
===== END BRIDGE ANALYSIS =====									
1-12	10730	590	1300	375	16238	1.90	107	332	
	3033.16	0.35	...	...	3033.45	3.46	0.51	...	*XS*

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 23, DATE= 8/31/77

COMPUTED WSC VALUES FOR: GAP CREEK, SECT. K1 TO Q
PROFILE NUMBER 31, UPSTREAM COMPUTATIONS

ALL 2ND

SECTID L-2 M O-T# P-2
WSC 3005.26 3012.13 3024.19 3028.08 3033.12

PAGE 1 OF PROFILE NOTES FOR: GAP CHECK SECT K1 TO R ALL 2ND
PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

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

L-2.81: KU/KD < 0.7 OR > 1.4	: :	ALERTED USER
L-2.81: KU/KD < 0.7 OR > 1.4	: :	ALERTED USER
L-2.81: WS TOO LOW	: :	USED WSMIN = WSC
L-2.81: WS TOO LOW	: :	USED WSMIN = WSC
L-2.81: FROM FAILURE	: :	USED WSMIN = WSC
L-2.81: WS = 3017.36 & FR = 12.23	: :	USED HIGHER WS
L-2.81: WS TOO LOW	: :	USED WSMIN = WSC
L-2.81: WS NOT FOUND BETWEEN	: :	USED DEL = 0.25
L-2.81: WS = 3024.91 & WS = 3032.10	: :	ASSUMED WS = WSC
L-2.81: WS NOT FOUND	: :	CHECKED GRD
L-2.81: WS NOT FOUND BETWEEN	: :	USED DEL = 0.25
L-2.81: WS = 3026.69 & WS = 3035.30	: :	USED WSMIN = WSC
L-2.81: WS NOT FOUND BETWEEN	: :	ASSUMED WS = WSC
L-2.81: WS NOT FOUND	: :	USED WSMIN = WSC
L-2.81: TOL FAILURE BETWEEN	: :	USED HIGHER WS
L-2.81: WS = 3024.10 & WS = 3029.64	: :	

500 ft

WATER-SURFACE PROFILE FOR: GAP CREEK, SECT K1 TO 0 ALL 2ND
 BASL 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	F4	ACC	*ID*
1	AT	5750	0	2500	1795	168464	1.08	-5	464	2993.35	0.03				1.43	0.127		*IS*
2	AT	6000	250	2500	573	47194	1.30	22	278	2993.44	0.41	0.21	0.30	2993.89	4.47	0.41	-0.000	*XS*
3	AT	6325	325	2500	334	26017	1.04	40	169	2994.95	0.95	1.73	0.27	2995.89	7.65	0.69	0.000	*XS*
4	AT	6900	575	2050	435	21986	1.46	66	402	3000.74	0.50	5.34	0.0	3001.24	4.71	0.49	0.008	*XS*
5	AT	7420	520	2050	477	20765	1.30	41	451	3005.70	0.37	4.83	0.0	3006.06	4.30	0.66	0.061	*XS*
6	AT	8160	740	2050	408	21145	1.21	91	343	3012.80	0.45	7.15	0.05	3013.26	5.02	0.67	0.000	*XS*
7	AT	8700	540	2050	448	28264	1.00	26	229	3016.74	0.33	3.80	0.0	3017.08	4.58	0.49	0.001	*XS*
8	AT	9116	416	2050	440	20466	1.12	43	347	3019.70	0.38	2.98	0.02	3020.03	4.60	0.63	0.002	*XS*
9	AT	9690	574	2050	352	24920	1.50	143	153	3024.71	0.95	*****	*****	3025.76	5.43	0.70	*****	*XS*
***** BEGIN LOGE ANALYSIS *****																		
10	AT	10490	800	2050	27	3813	1.00	-0	21	3023.50	1.35	.....	(-0.001)		4.33	0.21		*XS*
***** END OF FLOW (CFS) / LEFT 1024 / 1391 194 / 4030 *****																		
11	AT	9736	954	2050	534	23071	1.00	102	410	3020.24	0.25	0.02	0.0	3020.06	3.04	0.34	-0.002	*XS*
12	AT	9920	984	2050	504	20724	1.04	76	416	3020.94	0.09			3021.92	2.29	0.28		*XS*
***** END OF FLOW ANALYSIS *****																		
13	AT	10000	344	2050	424	20919	1.09	92	352	3020.24	0.69	*****	*****	3024.58	4.04	0.67	*****	*XS*
14	AT	10730	650	2050	470	22431	1.50	102	504	3023.44	0.59	6.27	0.0	3023.35	4.36	0.61	0.003	*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: GAP CREEK SECT K1 TO W
PROFILE NUMBER 47 UPSTREAM COMPUTATIONS

ALL 2ND

SECT	L-2	M	O-1W	P-2
WSC	3005.55	3012.57	3024.91	3028.69

PAGE 1 OF PROFILE NOTES FOR: GAP CREEK SECT K1 TO 0 ALL 2ND
PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

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

0 : WS TOO LOW : ASSUMED WS = WSC

P-2 : K0/KD < 0.7 OR > 1.4 : ALERTED USER

P-2 : SUPERCRITICAL WS : COMPUTED WSA

P-APP: WS NOT FOUND BETWEEN : WS = 3022.85 & WS = 3018.70 : USED DEL = 0.25

P-APP: WS NOT FOUND BETWEEN : WS = 3022.85 & WS = 3018.70 : USED KE = 0.5

P-APP: WS NOT FOUND : ASSUMED WS = WSC

30-OP: WS NOT FOUND BETWEEN : WS = 3022.21 & WS = 3018.60 : USED DEL = 0.25

30-OP: WS NOT FOUND BETWEEN : WS = 3022.21 & WS = 3018.60 : USED KE = 0.5

30-OP: WS NOT FOUND : ASSUMED WS = WSC

Q-1X : SUPERCRITICAL WS : COMPUTED WSA

Q : WS NOT FOUND BETWEEN : WS = 3018.71 & WS = 3014.50 : USED DEL = 0.25

Q : WS NOT FOUND BETWEEN : WS = 3018.71 & WS = 3014.50 : USED KE = 0.5

Q : WS NOT FOUND : ASSUMED WS = WSC

4-2 : WS NOT FOUND BETWEEN : WS = 3015.20 & WS = 3011.20 : USED DEL = 0.25

4-2 : WS NOT FOUND BETWEEN : WS = 3015.20 & WS = 3011.20 : USED KE = 0.5

4-2 : WS NOT FOUND : ASSUMED WS = WSC

4 : WS NOT FOUND BETWEEN : WS = 3011.50 & WS = 3007.20 : USED DEL = 0.25

4 : WS NOT FOUND BETWEEN : WS = 3011.50 & WS = 3007.20 : USED KE = 0.5

6 : WS NOT FOUND : ASSUMED WS = WSC

L-2 : WS NOT FOUND BETWEEN : WS = 3004.69 & WS = 3000.80 : USED DEL = 0.25

L-2 : WS NOT FOUND BETWEEN : WS = 3004.69 & WS = 3000.80 : USED KE = 0.5

L-2 : WS NOT FOUND

L-1 : WS NOT FOUND BETWEEN : WS = 2996.88 & WS = 2993.50 : ASSUMED WS = WSC
: USED DEL = 0.25
L-1 : WS NOT FOUND BETWEEN : WS = 2996.88 & WS = 2993.50 :
: USED KE = 0.5
L-1 : WS NOT FOUND :
L : WS NOT FOUND BETWEEN : WS = 2991.81 & WS = 2988.80 : ASSUMED WS = WSC
: USED DEL = 0.25
L : WS NOT FOUND BETWEEN : WS = 2991.81 & WS = 2988.80 :
: USED KE = 0.5
L : WS NOT FOUND :
L-2.6 : WS NOT FOUND BETWEEN : WS = 2989.02 & WS = 2986.20 : ASSUMED WS = WSC
: USED DEL = 0.25
L-2.8 : WS NOT FOUND BETWEEN : WS = 2989.02 & WS = 2986.20 :
: USED KE = 0.5
L-2.8 : WS NOT FOUND :
K-1 : WS NOT FOUND BETWEEN : WS = 2987.85 & WS = 2983.80 : ASSUMED WS = WSC
: USED DEL = 0.25
H-1 : WS NOT FOUND :
: ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: GAP CREEK SECT K1 TO G ALL 2ND
 PAGE 1 OF 1, PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

SECTION	AT	NS ELEV	HV	HF	HE	EG	V	FN	ACC	REW	*TD*
	10730	3032.74	0.24	0	570	227	8581	2.47	113	500	*1S*
P-2	10080	3026.38	1.25	5.35	570	67	4599	1.12	269	330	*XS*
P APP	9736	3022.85	1.40	*****	570	69	2619	1.00	339	361	*AS*
NO OP	9690	3022.21	1.41	*****	570	69	3192	1.00	0	21	*00*
O-1V	9690	3022.21	1.87	*****	570	53	3046	1.04	280	310	*XS*
	9110	3018.71	0.30	*****	570	163	5072	1.58	83	321	*XS*
M-2	8709	3015.20	0.38	*****	570	155	5463	1.58	36	213	*XS*
	8169	3011.30	0.40	*****	570	128	4474	1.31	150	307	*XS*
L-2	7820	3007.89	0.32	*****	570	160	6059	1.02	189	421	*XS*
L-1	5000	2996.93	1.01	*****	570	71	3250	1.00	182	217	*XS*
	4325	2991.21	0.83	*****	750	102	4005	1.00	91	152	*XS*
L-2.5	4000	2987.07	0.43	*****	750	103	4205	1.00	91	152	*XS*
L-1	3700	2987.23	1.25	*****	750	64	4935	1.09	78	110	*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: GAP CREEK SECT. K1 TO G
PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

ALL 2ND

SECTID	K-1	L-2	L	L-1	L-2	M	N-2	N
WSC	2987.35	2989.02	2991.81	2995.35	3004.59	3011.50	3015.20	3018.71

SECTID	G-Two	HO OP	P APP	P-2	
WSC	3022.99	3022.21	3022.85	3026.77	3032.74

COMPUTED WSA VALUES FOR: GAP CREEK SECT. K1 TO G
PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

ALL 2ND

SECTID	G-1	P-2
WSA	3023.83	3027.14

PAGE 1 OF PROFILE NOTES FOR: GAP CREEK, SECT K1 TO Q
PROFILE NUMBER 04, DOWNSTREAM COMPUTATIONS ALL 2ND

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

U : WS TOO LOW

H-2 : SUPERCRITICAL WS

P-4H2 : WS NOT FOUND BETWEEN

WS = 3024.78 & WS = 3018.70;

ASSUMED WS = WSC

COMPUTED WSA

P-APP : WS NOT FOUND BETWEEN

WS = 3024.78 & WS = 3018.70;

USED DEL = 0.25

P-APP1 : WS NOT FOUND

USED KE = 0.5

H0-OP : WS NOT FOUND BETWEEN

WS = 3023.43 & WS = 3018.60;

ASSUMED WS = WSC

H0-OP1 : WS NOT FOUND BETWEEN

WS = 3023.43 & WS = 3018.60;

USED DEL = 0.25

H0-OP1 : WS NOT FOUND

USED KE = 0.5

H-1A : SUPERCRITICAL WS

ASSUMED WS = WSC

H-1 : WS NOT FOUND BETWEEN

WS = 3019.03 & WS = 3014.50;

COMPUTED WSA

H-1 : WS NOT FOUND BETWEEN

WS = 3019.03 & WS = 3014.50;

USED DEL = 0.25

H-1 : WS NOT FOUND

USED KE = 0.5

H-2 : WS NOT FOUND BETWEEN

WS = 3015.57 & WS = 3011.20;

ASSUMED WS = WSC

H-2 : WS NOT FOUND BETWEEN

WS = 3015.57 & WS = 3011.20;

USED DEL = 0.25

H-2 : WS NOT FOUND

USED KE = 0.5

H-2 : WS NOT FOUND BETWEEN

WS = 3011.90 & WS = 3007.20;

ASSUMED WS = WSC

H-2 : WS NOT FOUND BETWEEN

WS = 3011.90 & WS = 3007.20;

USED DEL = 0.25

H-2 : WS NOT FOUND

USED KE = 0.5

L-2 : WS NOT FOUND BETWEEN

WS = 3004.99 & WS = 3000.80;

ASSUMED WS = WSC

L-2 : WS NOT FOUND BETWEEN

WS = 3004.99 & WS = 3000.80;

USED DEL = 0.25

L-2 : WS NOT FOUND

USED KE = 0.5

L-1 : WS NOT FOUND BETWEEN

ASSUMED WS = WSC

L-1 : WS NOT FOUND BETWEEN ; WS = 2997.94 & WS = 2993.50 ; USED DEL = 0.25
L-1 : WS NOT FOUND ; WS = 2997.94 & WS = 2993.50 ; USED KE = 0.5
L : WS NOT FOUND BETWEEN ; ; ASSUMED WS = WSC
L : WS NOT FOUND BETWEEN ; WS = 2992.65 & WS = 2988.80 ; USED DEL = 0.25
L : WS NOT FOUND BETWEEN ; WS = 2992.65 & WS = 2988.80 ; USED KE = 0.5
L : WS NOT FOUND ; ; ASSUMED WS = WSC
L-2.8 : WS NOT FOUND BETWEEN ; WS = 2989.87 & WS = 2986.20 ; USED DEL = 0.25
L-2.8 : WS NOT FOUND BETWEEN ; WS = 2989.87 & WS = 2986.20 ; USED KE = 0.5
L-2.8 : WS NOT FOUND ; ; ASSUMED WS = WSC
K-1 : WS NOT FOUND BETWEEN ; WS = 2989.37 & WS = 2983.80 ; USED DEL = 0.25
K-1 : WS NOT FOUND ; ; ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: GAP CREEK SECT K1 TO J ALL 2ND
 PAGE 01 OF 1, PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HE	HE	EG	V	FN	ACC	ID
	AT	10730	0	1060.	329.	13544.	2.05	109.	501.	3033.00	0.33			3033.33	3.23	0.89		*15*
P-2	AT	10080	-650	1060.	175.	11280.	1.75	213.	342.	3027.55	1.00	4.78	0.0	3028.55	6.05	1.21		*XS*
P	APP AT	9736	-844	1060.	240.	7972.	1.47	145.	381.	3024.78	0.45	*****	*****	3025.23	4.42	0.93	*****	*4S*
P	OP AT	9690	-46	1060.	86.	4999.	1.00	0.	21.	3023.43	2.39	*****	*****	3025.52	12.39	0.99	*****	*80*
P-1	AT	9690	0	1060.	127.	7971.	1.40	228.	332.	3023.43	1.52	*****	*****	3024.96	8.36	1.56	*****	*XS*
P	AT	9110	-580	1060.	246.	8514.	1.39	61.	330.	3019.03	0.40	*****	*****	3019.43	4.32	0.94	*****	*XS*
P-2	AT	8700	-410	1060.	222.	8945.	1.29	35.	218.	3015.57	0.46	*****	*****	3016.02	4.78	0.87	*****	*XS*
	AT	8160	-540	1060.	212.	6336.	1.30	109.	325.	3011.96	0.51	*****	*****	3012.46	5.01	0.99	*****	*XS*
L-2	AT	7420	-740	1060.	279.	9113.	1.43	177.	431.	3004.99	0.47	*****	*****	3005.47	4.62	1.01	*****	*XS*
L-1	AT	6900	-520	1060.	108.	5751.	1.00	182.	218.	2997.94	1.49	*****	*****	2997.43	9.78	0.99	*****	*XS*
L	AT	6320	-370	1360.	157.	8264.	1.00	90.	157.	2992.09	1.11	*****	*****	2993.43	8.69	1.00	*****	*XS*
L-2.8	AT	6000	-325	1360.	157.	8279.	1.00	90.	157.	2989.07	1.17	*****	*****	2991.04	8.67	1.00	*****	*XS*
L-1	AT	5750	-250	1360.	298.	16433.	1.74	51.	326.	2987.37	0.56	*****	*****	2987.93	4.57	1.02	*****	*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: GAP CREEK SECT K1 TO 0 ALL 2ND
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECTID	K-1	L-2.8	L	L-1	L-2	M	M-2	N
WSC	2989.37	2989.87	2992.65	2997.94	3004.99	3011.96	3015.57	3019.03

SECTID	0-TW	BO UP	P APP	P-2	0
WSC	3023.96	3023.43	3024.79	3027.77	3033.00

COMPUTED WSA VALUES FOR: GAP CREEK SECT K1 TO 0 ALL 2ND
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

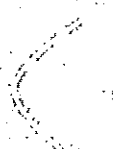
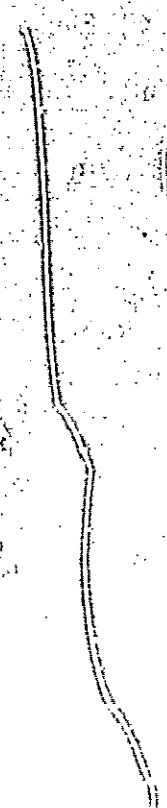
SECTID	0-TW	P-2
WSA	3024.65	3027.97

PAGE 1 OF PROFILE NOTES FOR: GAP CREEK SECT K1 TO Q ALL 2ND
 PROFILE NUMBER 7, DOWNSTREAM COMPUTATIONS

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

Q-1	WS TOO LOW		ASSUMED WS = WSC
P-4	SUPERCritical WS		COMPUTED WSA
P-APPI	WS NOT FOUND BETWEEN	WS = 3024.95 & WS = 3018.70	USED DEL = 0.25
P-APPI	WS NOT FOUND BETWEEN	WS = 3024.95 & WS = 3018.70	USED KE = 0.5
P-APPI	WS NOT FOUND		ASSUMED WS = WSC
BO-OP	WS NOT FOUND BETWEEN	WS = 3023.49 & WS = 3018.60	USED DEL = 0.25
BO-OP	WS NOT FOUND BETWEEN	WS = 3023.49 & WS = 3018.60	USED KE = 0.5
BO-OP	WS NOT FOUND		ASSUMED WS = WSC
O-TW	SUPERCritical WS		COMPUTED WSA
N	WS NOT FOUND BETWEEN	WS = 3019.17 & WS = 3014.50	USED DEL = 0.25
N	WS NOT FOUND BETWEEN	WS = 3019.17 & WS = 3014.50	USED KE = 0.5
N	WS NOT FOUND		ASSUMED WS = WSC
M-2	WS NOT FOUND BETWEEN	WS = 3015.71 & WS = 3011.20	USED DEL = 0.25
M-2	WS NOT FOUND BETWEEN	WS = 3015.71 & WS = 3011.20	USED KE = 0.5
M-2	WS NOT FOUND		ASSUMED WS = WSC
L	WS NOT FOUND BETWEEN	WS = 3012.13 & WS = 3007.20	USED DEL = 0.25
L	WS NOT FOUND BETWEEN	WS = 3012.13 & WS = 3007.20	USED KE = 0.5
L	WS NOT FOUND		ASSUMED WS = WSC
L-2	WS NOT FOUND BETWEEN	WS = 3005.26 & WS = 3000.80	USED DEL = 0.25
L-2	WS NOT FOUND BETWEEN	WS = 3005.26 & WS = 3000.80	USED KE = 0.5
L-2	WS NOT FOUND		ASSUMED WS = WSC
L-1	WS NOT FOUND BETWEEN		

L-1	WS NOT FOUND BETWEEN	WS = 2998.39 & WS = 2993.50	USED DEL = 0.25
L-1	WS NOT FOUND	WS = 2998.39 & WS = 2993.50	USED KE = 0.5
L	WS NOT FOUND BETWEEN		ASSUMED WS = WSC
L	WS NOT FOUND BETWEEN	WS = 2993.02 & WS = 2988.80	USED DEL = 0.25
L	WS NOT FOUND BETWEEN	WS = 2993.02 & WS = 2988.80	USED KE = 0.5
L	WS NOT FOUND		ASSUMED WS = WSC
L-2.81	WS NOT FOUND BETWEEN	WS = 2990.21 & WS = 2986.20	USED DEL = 0.25
L-2.81	WS NOT FOUND BETWEEN	WS = 2990.23 & WS = 2986.20	USED KE = 0.5
L-2.81	WS NOT FOUND		ASSUMED WS = WSC
K-1	WS NOT FOUND BETWEEN	WS = 2989.59 & WS = 2983.80	USED DEL = 0.25
K-1	WS NOT FOUND		ASSUMED WS = WSC



WATER-SURFACE PROFILE FOR: GAP CREEK SECT K1 TO 0 ALL 2ND
 PAGE 1 OF 1, PROFILE NUMBER 7, DOWNSTREAM COMPUTATIONS

SECTID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
HS ELEV	HV	HF	HE	EG	V	FN	ACC	PID	
	AT	10730	0	1300.	375.	16238.	1.90	107.	502.
3033.12		0.35			3033.48	3.46	0.86		*IS*
P-2	AT	10080	-650	1300.	226.	14643.	1.82	191.	345.
3027.92		0.93	4.62	0.0	3028.85	5.75	1.13	0.001	*XS*
P APP	AT	9736	-344	1300.	262.	9546.	1.40	132.	364.
3024.95		0.46	*****	*****	3025.42	4.61	0.91	*****	*AS*
BO OP	AT	9690	-46	1300.	86.	4561.	1.00	0.	21.
3023.49		3.53	*****	*****	3027.02	15.07	1.31	*****	*BO*
O-TK	AT	9690	0	1300.	132.	8306.	1.42	226.	333.
3023.49		2.13	*****	*****	3025.62	9.64	1.85	*****	*XS*
	AT	9110	-580	1300.	284.	10374.	1.33	51.	333.
3019.17		0.45	*****	*****	3019.60	4.58	0.93	*****	*XS*
-2	AT	8700	-410	1300.	248.	10655.	1.21	34.	219.
3015.71		0.52	*****	*****	3016.23	5.24	0.88	*****	*XS*
	AT	8160	-540	1300.	248.	10268.	1.28	112.	331.
3012.13		0.55	*****	*****	3012.68	5.25	0.99	*****	*XS*
L-2	RT	7420	-740	1300.	312.	12171.	1.47	47.	439.
1095.25		0.60	*****	*****	3005.66	4.16	0.93	*****	*XS*
L-1	AT	6900	-320	1300.	124.	6659.	1.00	182.	218.
2998.39		1.70	*****	*****	3000.99	10.45	1.00	*****	*XS*
	AT	6325	-575	1650.	71.	10384.	1.00	89.	158.
2993.02		1.29	*****	*****	2994.31	9.11	0.99	*****	*XS*
L-2.8	AT	6000	-325	1650.	181.	10366.	1.00	89.	159.
2990.23		1.29	*****	*****	2991.52	9.11	0.99	*****	*XS*
A-1	AT	5750	-250	1650.	309.	14936.	1.70	47.	336.
2989.59		0.86	*****	*****	2990.15	4.59	0.95	*****	*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: GAP CREEK SECT K1 TO 0 ALL 2ND
PROFILE NUMBER 7, DOWNSTREAM COMPUTATIONS

SECTID	K-1	L-2.8	OL	L-1	L-2	M	L-2	N
WSC	2984.59	2990.23	2993.02	2998.39	3005.26	3012.13	3015.71	3019.17

SECTID	O-TW	BO UP	P APP	P-2	TU
WSC	3024.19	3023.49	3024.95	3028.98	3053.12

COMPUTED WSA VALUES FOR: GAP CREEK SECT K1 TO 0 ALL 2ND
PROFILE NUMBER 7, DOWNSTREAM COMPUTATIONS

SECTID	O-TW	P-2
WSA	3025.44	3025.21



PAGE 1 OF PROFILE NOTES FOR: GAP CREEK SECT K1 TO 0 WALL 2ND
 PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

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

0	: WS TOO LOW	:			ASSUMED WS = WSC
P-2	: SUPERCRITICAL WS	:			COMPUTED WSA
P APP	: WS NOT FOUND BETWEEN	:	WS = 3025.34 & WS = 3018.70		USED DEL = 0.25
P APP	: WS NOT FOUND BETWEEN	:	WS = 3025.34 & WS = 3018.70		USED KE = 0.5
P APP	: WS NOT FOUND	:			ASSUMED WS = WSC
BO OP	: WS NOT FOUND BETWEEN	:	WS = 3023.55 & WS = 3018.60		USED DEL = 0.25
BO OP	: WS NOT FOUND BETWEEN	:	WS = 3023.55 & WS = 3018.60		USED KE = 0.5
BO OP	: WS NOT FOUND	:			ASSUMED WS = WSC
D-TW	: SUPERCRITICAL WS	:			COMPUTED WSA
M	: WS NOT FOUND BETWEEN	:	WS = 3019.52 & WS = 3014.50		USED DEL = 0.25
M	: WS NOT FOUND BETWEEN	:	WS = 3019.52 & WS = 3014.50		USED KE = 0.5
M	: WS NOT FOUND	:			ASSUMED WS = WSC
M-2	: WS NOT FOUND BETWEEN	:	WS = 3016.04 & WS = 3011.20		USED DEL = 0.25
M-2	: WS NOT FOUND BETWEEN	:	WS = 3016.04 & WS = 3011.20		USED KE = 0.5
M-2	: WS NOT FOUND	:			ASSUMED WS = WSC
M	: WS NOT FOUND BETWEEN	:	WS = 3012.57 & WS = 3007.20		USED DEL = 0.25
M	: WS NOT FOUND BETWEEN	:	WS = 3012.57 & WS = 3007.20		USED KE = 0.5
M	: WS NOT FOUND	:			ASSUMED WS = WSC
L-2	: WS NOT FOUND BETWEEN	:	WS = 3005.58 & WS = 3000.40		USED DEL = 0.25
L-2	: WS NOT FOUND BETWEEN	:	WS = 3005.58 & WS = 3000.40		USED KE = 0.5
L-2	: WS NOT FOUND	:			ASSUMED WS = WSC
L-1	: WS NOT FOUND BETWEEN	:			ASSUMED WS = WSC

L-1 : WS NOT FOUND BETWEEN ; WS = 3000.42 & WS = 2993.50 ; USED DEL = 0.25
L-1 : WS NOT FOUND ; WS = 3000.42 & WS = 2993.50 ; USED KE = 0.5
L : WS NOT FOUND BETWEEN ; WS = 2993.96 & WS = 2988.80 ; ASSUMED WS = WSC
L : WS NOT FOUND BETWEEN ; WS = 2993.96 & WS = 2988.80 ; USED DEL = 0.25
L : WS NOT FOUND ; WS = 2993.96 & WS = 2988.80 ; USED KE = 0.5
L-2.8 : WS NOT FOUND BETWEEN ; WS = 2991.18 & WS = 2986.20 ; ASSUMED WS = WSC
L-2.8 : WS NOT FOUND BETWEEN ; WS = 2991.18 & WS = 2986.20 ; USED DEL = 0.25
L-2.8 : WS NOT FOUND ; WS = 2991.18 & WS = 2986.20 ; USED KE = 0.5
K-1 : WS NOT FOUND BETWEEN ; WS = 2990.04 & WS = 2983.80 ; ASSUMED WS = WSC
K-1 : WS NOT FOUND ; WS = 2990.04 & WS = 2983.80 ; USED DEL = 0.25
K-1 : WS NOT FOUND ; WS = 2990.04 & WS = 2983.80 ; ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: GAP CREEK SECT K1 TO 0 ALL 2ND
 PAGE 1 OF 1, PROFILE NUMBER: 8, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	ELEV	HV	HF	HE	EG	V	FM	ACC	ID
0	AT	10730	0	2050	486	23527	1.64	102	504	3033.40	0.45							*15*
P-2	AT	10080	-650	2050	406	27101	1.92	95	351	3028.83	0.76	4.27	0.0	3029.59	5.05	0.98	-0.001	*XS*
P-APP	AT	9736	-344	2050	385	14284	1.23	114	397	3025.34	0.54	*****	*****	3025.88	5.32	0.89	*****	*AS*
BO OP	AT	9690	-46	2050	87	4081	1.00	0	21	3023.55	8.66	*****	*****	3032.22	23.60	2.05	*****	*R0*
0-TW	AT	9690	0	2050	140	8808	1.43	223	334	3023.55	4.81	*****	*****	3028.36	14.68	2.76	*****	*XS*
4	AT	9110	-580	2050	384	16373	1.18	45	343	3019.52	0.52	*****	*****	3020.04	5.33	0.90	*****	*XS*
-2	AT	8700	-410	2050	317	15845	1.09	32	223	3016.06	0.71	*****	*****	3015.79	6.46	0.92	*****	*XS*
3	AT	8160	-540	2050	350	16734	1.24	99	342	3012.57	0.66	*****	*****	3013.23	5.86	0.96	*****	*XS*
L-2	AT	7420	-740	2050	427	17847	1.34	43	449	3005.58	0.42	*****	*****	3006.06	4.80	0.94	*****	*XS*
L-1	AT	6900	-520	2050	340	17457	1.42	86	392	3000.42	0.40	*****	*****	3001.22	6.92	1.09	*****	*XS*
L	AT	6325	-575	2500	249	17043	1.00	89	163	2993.96	1.64	*****	*****	2993.60	10.27	0.99	*****	*XS*
L-2.8	AT	5000	-325	2500	250	17062	1.00	88	164	2991.18	1.64	*****	*****	2992.61	10.26	0.99	*****	*XS*
1-1	AT	5750	-250	2500	495	28905	1.54	40	354	2990.94	0.34	*****	*****	2990.68	5.17	0.90	*****	*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: GAP CREEK SECT K1 TO 0
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

ALL 2ND

SECID	K-1	L-2.8	L	L-1	L-2	M	M-2	N
WSC	2990.04	2991.18	2993.96	3000.42	3005.56	3012.57	3016.08	3019.52

SECID	0-TW	HO OP	P APP	P-2	0
WSC	3024.91	3023.55	3025.34	3028.89	3033.40

COMPUTED WSA VALUES FOR: GAP CREEK SECT K1 TO 0
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

ALL 2ND

SECID	0-TW	P-2
WSA	3028.32	3028.97

FLOODWAY

COMPUTATIONS

*** INPUT CARD PRINTOUT ***

A to I+22

	1	2	3	4	5	6	7	8
1	1	GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K 19 1 02 99 10						
2	2	296400						
3	3	A 1	21	3	2956	0	99	99
4	4	2010						
5	105	0	1	29690	78	1	29659	175
5	106	288	1	29612	371	1	29607	396
5	107	410	2	29553	414	2	29552	417
5	108	468	3	29616	515	3	29619	558
5	109	665	3	29683		3	29621	598
6	110	1	2	070 070	2	5	045 000	1
3	200	0	0	21	1	2959	510	99
5	205	0	1	29708	40	1	29647	80
5	206	187	1	29590	194	1	29589	203
5	207	235	1	29580	240	1	29574	246
5	208	300	1	29618	350	1	29628	400
5	209	543	1	29706		1	29636	450
6	210	1	2	040 040				
3	300	0	0	18	3	2960	915	99
5	305	0	1	29725	50	1	29690	100
5	306	217	2	29625	221	2	29600	224
5	307	241	2	29595	253	3	29642	300
5	308	433	3	29685	450	3	29703	457
6	309	1	2	040 035	2	5	045 035	1
3	400	0	0	15	3	2962	1520	99
5	405	0	1	29738	29	1	29695	51
5	406	64	2	29697	73	2	29611	86
5	407	200	3	29681	250	3	29680	273
5	408	1	2	040 035	1	4	045 035	1
3	500	F T=0	19	3	2965	2118	99	99
5	505	0	1	29780	50	1	29747	100
5	506	150	2	29643	152	2	29638	157
5	507	165	2	29655	168	3	29685	205
5	508	350	3	29698	380	3	29747	389
6	509	1	2	040 035	1	4	045 035	1
3	604	0	0	9	1	2964	2118	15
5	605	0	1	29716	3	1	29764	6
5	606	20	1	29643	24	1	29684	26
6	608	1	2	050 050				
3	650	0	0	4	6	2	14	1
5	655	152	1	29800	153	1	29734	167
5	656	227	2	29860		2	29732	181
3	700	F APP 5	23	3	2966	2174	1	3
5	705	0	1	29790	49	1	29759	93
5	706	176	1	29555	177	1	29653	178
5	707	195	2	29644	200	2	29640	202

*** 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.....								
5 708	216	3	29691	252	3	29691	300	3 29693 337 3 29693 375 3 29697
5 709	400	3	29713	434	3	29771	457	3 29785
6 710	1 2 045 035	2	4 045 035	1	2 040 035			
3 751	6 TW 0	19	3 2967	2870	99	99		
5 752	0	1	29810	50	1	29777	100	1 29749 150 2 29735 160 2 29712
5 753	164	2	29681	169	2	29674	177	2 29661 179 2 29664 182 2 29674
5 754	187	2	29705	193	3	29730	246	3 29728 284 3 29735 300 3 29736
5 755	339	3	29742	390	3	29763	425	3 29786 450 3 29814
6 756	1 2 040 035	1	2 045 035	1	2 040 035			
3 800	6 TW 0	19	3 2967	2889	99	99		
5 805	0	1	29810	50	1	29777	100	1 29749 150 2 29735 160 2 29712
5 806	164	2	29681	169	2	29674	177	2 29661 179 2 29664 182 2 29674
5 807	187	2	29705	193	3	29730	246	3 29728 284 3 29735 300 3 29736
5 808	339	3	29742	390	3	29763	425	3 29786 450 3 29814
6 810	1 2 040 035	1	2 045 035	1	2 040 035			
3 950	NO RD 0	20	3 2968	2896	99	99		10
5 951	0	1	29816	43	1	29785	135	1 29761 159 1 29744 159 2 29730
5 952	164	2	29694	167	2	29675	171	2 29679 172 2 29680 173 2 29664
5 953	177	2	29669	180	2	29679	184	2 29710 185 3 29734 185 3 29746
5 954	260	3	29747	300	3	29749	333	3 29749 390 3 29765 450 3 29829
6 955	1 2 040 035	2	4 045 035	1	2 040 035			
3 974	H-0.4 0	17	3 2967	2905	99	99		
5 975	0	1	29801	72	1	29769	120	1 29753 150 1 29744 187 2 29725
5 976	191	2	29678	195	2	29665	200	2 29672 205 2 29678 211 2 29710
5 977	222	3	29737	262	3	29739	300	3 29738 346 3 29746 381 3 29754
5 978	423	3	29772	450	3	29795		
6 980	1 2 040 035	2	4 045 035	1	2 040 035			
3 1000	H APP 0	16	3 2968	2931	1	3		
5 1005	0	1	29805	72	1	29773	120	1 29757 150 1 29748 187 2 29729
5 1006	191	2	29682	195	2	29669	200	2 29676 205 2 29682 211 2 29714
5 1007	213	3	29719	222	3	29741	262	3 29743 300 3 29742 346 3 29750
5 1008	341	3	29758	423	3	29776	450	3 29799
6 1010	1 2 040 035	1	4 045 035	1	2 040 035			
3 1050	I-4.1 0	17	3 2972	3500	99	99		
5 1055	0	1	29837	37	1	29794	77	1 29775 113 2 29774 121 2 29730
5 1056	128	2	29714	140	2	29711	150	2 29706 151 2 29714 157 2 29753
5 1057	165	3	29772	198	3	29772	223	3 29764 260 3 29772 297 3 29800
5 1058	301	3	29810	310	3	29864		
6 1060	1 2 040 035	2	6 045 035	1	2 040 035			
3 1100	1	17	3 2975	4098	99	99		0
4 1111	1659							
5 1115	0	1	29871	37	1	29835	77	1 29816 113 2 29819 121 2 29771
5 1116	128	2	29755	140	2	29752	150	2 29747 151 2 29755 157 2 29794
5 1117	165	3	29813	198	3	29813	223	3 29805 260 3 29813 297 3 29841
5 1118	301	3	29851	310	3	29910		

PAGE 1 OF EDITING NOTES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BO EF	WARNING	STATION	9	IS LESS THAN	STATION	8	
BO JK	WARNING	STATION	14	IS LESS THAN	STATION	13	

INPUT SUMMARY FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K

19 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 19 TYPE 3 CARDS

KEPT 19 CROSS SECTIONS FOR EDITING

19 " " VALID FOR PROPERTY COMPUTATIONS

19 " " " " PROFILE " "

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID= A AT DISTANCE= 0 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2956.0	8	181	1.00	15	15	402	417	35
2965.9	2264	132688	1.23	570	572	78	648	23039
2969.0	4184	324856	1.14	665	668	0	665	55833

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID= B AT DISTANCE= 510 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2959.0	17	503	1.00	23	23	187	249	82
2968.9	2853	336812	1.00	503	506	12	516	38523
2970.8	3650	527595	1.00	543	546	0	343	58147

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID= C AT DISTANCE= 915 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2960.0	20	627	1.00	21	22	221	242	110
2969.9	1596	186128	1.33	409	411	37	446	15486
2972.5	2728	401108	1.17	457	460	0	457	34944

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID= D AT DISTANCE= 1520 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2962.0	19	611	1.00	19	20	57	76	107
2971.9	1211	150425	1.26	266	271	13	279	13044
2973.8	1755	247129	1.20	309	315	0	309	21688

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID= E T-W AT DISTANCE= 2118 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2965.0	15	487	1.00	15	15	150	164	86
2974.9	1556	190656	1.12	340	346	47	387	17830
2978.1	2735	430787	1.08	401	408	0	401	38936

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=B0 EF AT DISTANCE= 2118 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2964.0	1	10	1.00	7	7	10	18	3
2973.9	125	5973	1.00	-1	62	0	26	0
2976.4	122	5139	1.00	0	67	0	26	0

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=F APP AT DISTANCE= 2176 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2966.0	32	1327	1.04	24	25	175	211	205
2975.9	2108	292354	1.12	378	382	49	427	26652
2979.0	3399	566277	1.09	457	461	0	457	50280

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=G TW AT DISTANCE= 2870 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2967.0	5	92	1.00	9	10	171	181	18
2976.9	1106	115843	1.34	335	338	64	399	9860
2981.4	2904	444072	1.13	450	454	0	450	39407

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=G TW AT DISTANCE= 2899 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2967.0	5	92	1.00	9	10	171	181	18
2976.9	1106	115843	1.34	335	338	64	399	9860
2981.4	2904	444072	1.13	450	454	0	450	39407

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=B0 RD AT DISTANCE= 2896 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2968.0	9	229	1.00	14	15	166	180	44
2977.9	967	95488	1.53	337	345	66	403	7496
2982.9	3000	460612	1.10	450	460	0	450	41817

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=H-C.4 AT DISTANCE= 2905 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2967.0	1	17	1.00	5	5	193	199	4
2976.9	943	88722	1.47	344	348	72	616	7296
2980.1	2228	287808	1.17	450	455	0	450	25935

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=H-APP AT DISTANCE= 2931 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2968.0	6	136	1.00	12	12	192	203	26
2977.9	1157	116518	1.44	368	372	58	427	9706
2980.5	2228	287962	1.19	450	455	0	450	25787

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=I-4.1 AT DISTANCE= 3500 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2972.0	23	663	1.00	27	27	125	152	118
2981.9	1383	179917	1.21	287	291	15	302	15640
2986.9	2900	551735	1.07	310	319	0	310	48651

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=I AT DISTANCE= 4095 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2975.0	1	9	1.00	6	6	144	150	2
2984.9	1074	125339	1.29	275	279	25	300	10579
2991.0	2900	551765	1.07	310	319	0	310	48654

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=I+2.3 AT DISTANCE= 4625 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2978.0	12	262	1.00	24	25	127	151	51
2987.9	1269	158907	1.24	283	287	19	302	13707
2993.3	2900	551718	1.07	310	319	0	310	48649

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=J-TW AT DISTANCE= 5187 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2980.0	7	156	1.00	10	11	20	30	30
2989.9	525	42491	1.00	153	159	8	160	5523
2996.1	166	247485	1.00	200	209	0	200	27293

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=BO JK AT DISTANCE= 5187 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2980.0	1	15	1.00	4	4	3	7	3
2989.9	266	31511	1.00	30	47	0	30	4492
2992.4	341	32873	1.00	0	82	0	30	0

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=K ARP AT DISTANCE= 5290 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2981.0	5	69	1.00	13	13	281	294	16
2990.9	1401	122625	1.21	469	472	15	484	12475
2993.3	2670	298464	1.21	600	605	0	600	29184

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
.....	5	0	5	0	5	0	5	0
9 5600	3	VHD	100	396	448	296300		
9 5610	200	HOR		180	260	296439		
9 5620	300	HOR		187	267	296555		
9 5630	400	HOR		33	113	296858		
9 5640	500	HOR		137	217	297110		
9 5650	700	HOR		182	262	297392		
9 5660	751	HOR		135	215	297409		
9 5670	800	HOR		135	215	297456		
9 5680	950	HOR		156	185	297460		
9 5690	974	HOR		156	226	297720		
9 5700	1000	HOR		156	226	297720		
9 5710	1050	HOR		108	168	297779		
9 5720	1100	HOR		108	168	298103		
9 5730	1150	HOR		108	168	298404		
9 5740	1200	HOR		12	71	298669		
9 5750	1400	HOR		253	323	299111		
9 5760		END						

REDUCING VEL ETC

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID= A AT DISTANCE= 0 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2956.0	B	181	1.00	15	15	402	417	35
2965.9	737	55389	1.09	119	130	330	448	9980
2969.0	1104	103697	1.06	119	136	330	448	18612

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID= B AT DISTANCE= 510 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2959.0	17	503	1.00	23	23	187	249	82
2968.9	735	104538	1.00	80	98	180	260	12631
2970.8	887	139443	1.00	80	102	180	260	16746

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID= C AT DISTANCE= 915 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2960.0	20	627	1.00	21	22	221	242	110
2969.9	603	95344	1.09	80	92	187	267	8984
2972.5	811	151399	1.10	80	98	187	267	13942

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID= D AT DISTANCE= 1520 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2952.0	19	611	1.00	19	20	57	76	107
2971.9	567	87067	1.14	80	91	33	113	8017
2973.8	719	124507	1.12	80	94	33	113	11548

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID= E T-W AT DISTANCE= 2118 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2965.0	15	487	1.00	15	15	150	164	86
2974.9	509	70549	1.12	80	94	137	217	6870
2978.7	765	131474	1.08	80	101	137	217	12884

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=F APP AT DISTANCE= 2176 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2966.0	30	1298	1.00	20	21	192	211	213
2975.9	665	107291	1.12	80	98	182	262	10244
2979.0	913	175351	1.12	80	104	182	262	16544

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=G TW AT DISTANCE= 2870 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2967.0	5	92	1.00	9	10	171	181	18
2976.9	458	62667	1.14	80	90	135	215	5833
2981.4	818	151332	1.12	80	99	135	215	14028

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=G TW AT DISTANCE= 2889 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2967.0	5	92	1.00	9	10	171	181	18
2976.9	458	62667	1.14	80	90	135	215	5833
2981.4	818	151332	1.12	80	99	135	215	14028

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=RO RD AT DISTANCE= 2896 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2968.0	9	229	1.00	14	15	166	180	44
2977.9	250	36558	1.04	29	44	156	185	4065
2982.9	395	69784	1.06	29	54	156	185	8003

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=H-0.4 AT DISTANCE= 2905 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2967.0	1	17	1.00	5	5	193	199	4
2976.9	383	50410	1.13	70	80	156	226	4771
2980.1	607	101818	1.11	70	86	156	226	9635

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=H APP AT DISTANCE= 2931 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2968.0	6	136	1.00	12	12	192	203	26
2977.9	425	59382	1.18	70	81	156	226	5470
2980.5	607	100935	1.14	70	86	156	226	9497

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=I-4.1 AT DISTANCE= 3500 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2972.0	23	663	1.00	27	27	125	152	6118
2981.9	500	84572	1.06	60	72	108	168	7947
2986.9	800	178496	1.10	60	82	108	168	15838

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=I AT DISTANCE= 4095 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2975.0	1	9	1.00	6	6	144	150	2
2984.9	434	67654	1.06	60	70	108	168	6452
2991.0	800	178489	1.10	60	82	108	168	15838

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=I+2.3 AT DISTANCE= 4625 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2978.0	12	262	1.00	24	25	127	151	51
2987.9	476	73250	1.06	60	71	108	168	7392
2993.3	800	178490	1.10	60	82	108	168	15838

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 SECID=J-TX AT DISTANCE= 5187 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

WS	A	K	ALPHA	B	P	LEW	REW	QC
2980.0	7	156	1.00	10	11	20	30	30
2989.9	420	51569	1.00	59	70	12	71	6352
2996.1	736	131467	1.00	59	83	12	71	16260

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 15, DATE=12/21/77

2990.9	458	51552	1.06	70	80	253	323	6443
2993.3	626	83042	1.05	70	85	253	323	10345

PAGE 1 OF PROFILE NOTES FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
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
E T-W:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
F APP:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
G TW:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
BD RD:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
H-0.4:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
I	: KU/KD < 0.7 OR > 1.4	:	ALERTED USER

Floodway USE TO BO-JK

WATER-SURFACE PROFILE FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 PAGE 1 OF 2, PROFILE NUMBER 1. / UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS FLEV	HV	HF	HE	EG	V	FN	ACC	ID	
A	AT	0	0	2010.	512.	31587.	1.14	330.	448.	2964.00	0.27			2964.27	3.93	0.35		*IS*	
B	AT	510	510	2010.	449.	48403.	1.00	180.	260.	2965.33	0.31	1.35	0.02	2965.64	4.47	0.33	0.001	*XS*	
C	AT	915	405	2010.	311.	34031.	1.10	187.	267.	2966.24	0.72	0.99	0.33	2966.96	6.47	0.56	0.002	*XS*	
D	AT	1520	605	2010.	283.	32095.	1.26	35.	113.	2968.35	0.99	2.24	0.14	2969.34	7.11	0.60	0.001	*XS*	
E	T-W AT	2118	598	2010.	227.	22346.	1.37	137.	217.	2971.38	1.66	3.37	0.34	2973.04	8.84	0.80	0.000	*XS*	
===== BEGIN BRIDGE ANALYSIS =====																			
R	EF AT	2118		1947.	127.	8064.	1.00	4.	26.	2971.38	2.29	...	1.001	12.14	0.87			*R0*	
EMBAKMENT OVERFLOW (CFS) / LEFT 62. / RIGHT 393. / *R0*																			
F	APP AT	2176	58	2010.	418.	52787.	1.18	182.	262.	2972.82	0.42	0.20	0.0	2973.24	4.81	0.38	-0.001	*AS*	
M = 0.27 / E = 0.20 / K* = 0.61 / 545. / 79069. / 1.14 / 182. / 262. / 2974.41 / 0.24 / / 2974.65 / 3.69 / 0.26 / *AS*																			
===== END BRIDGE ANALYSIS =====																			
G	TW AT	2870	894	2010.	317.	36551.	1.17	135.	215.	2975.13	0.73	0.97	0.25	2975.86	6.35	0.53	-0.000	*XS*	
G	TW AT	2899	19	2010.	324.	37678.	1.17	135.	215.	2975.22	0.70	0.06	0.0	2975.92	6.21	0.51	-0.002	*XS*	
S	RD AT	2896	7	2010.	173.	21605.	1.02	156.	185.	2975.25	2.15	0.03	1.45	2977.40	11.63	0.81	-0.000	*XS*	
H	-0.4 AT	2905	9	2010.	387.	51210.	1.13	156.	226.	2976.95	0.48	0.03	0.0	2977.43	5.20	0.39	-0.001	*XS*	
H	APP AT	2931	26	2010.	354.	46477.	1.21	156.	226.	2976.96	0.99	0.04	0.06	2977.55	5.60	0.42	0.013	*XS*	
I	-4.1 AT	3500	569	2010.	286.	33787.	1.03	108.	168.	2978.32	0.79	1.46	0.10	2979.11	7.04	0.54	0.001	*XS*	
I	AT	4095	595	1650.	213.	20444.	1.00	114.	164.	2981.14	0.93	2.88	0.07	2982.07	7.73	0.65	0.001	*XS*	

*USE 100%
2524.58*

25-115

river encroachment allowed

USE 100% 2976.95

do 2977.55

297-268

297-267

WATER-SURFACE PROFILE FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 PAGE 2 OF 2, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** REDUCING VEL ETC

=====

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

=====

I+2.3	AT	4625	530	1650.	247.	26128.	1.01	113.	168.
2984.07		0.70	2.70	0.0	2984.77	6.67	0.54	0.002	*XS*

J-TW	AT	5187	562	1650.	238.	21222.	1.00	12.	71.
2986.81		0.75	2.76	0.03	2987.56	6.95	0.61	0.003	*XS*

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

NO JK	AT	5187		1650.	123.	11060.	1.00	0.	30.
2986.81		2.92		...1... (-.001)		13.47	0.99		*R0*

===== NO EMBANKMENT CROSS SECTION =====

K APP	AT	5290	103	1650.	224.	18011.	1.06	253.	314.
2987.47		0.90	0.73	0.07	2988.37	7.37	0.61	0.000	*AS*

M		0.36	$E_c = 0.33$	$K^* = 0.71$	402.	42298.	1.07	253.	327.
2990.10		0.28			2990.38	4.11	0.28		*AS*

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

END OF THIS PROFILE

Good

55 74 222

59 109 1016 12.71

17 321

150 - 314

174 324

314 324

10 091

500
74

SUMMARY OF ENCROACHMENTS FOR: GAP CREEK FLOODWAY ROAD ENCROACH ALLOWED A TO K
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED REDUCING VEL ETC (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	3	1	VHD	YES	YES	1.00	1.00	*****	115 ⁶
H	200	0	HOR	YES	YES	*****	0.94	*****	80
C	300	0	HOR	YES	YES	*****	0.69	*****	80
D	400	0	HOR	YES	YES	*****	-0.23	*****	78
E T-W	500	0	HOR	YES	YES	*****	0.28	*****	80
BO EF	600	2	N.A.	N.A.	N.A.	*****	0.28	*****	21
ROAD	650	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
F APP	700	5	HOR	YES	YES	*****	0.49	*****	80
G TW	751	0	HOR	YES	YES	*****	1.00	*****	80
G TW	800	0	HOR	YES	YES	*****	0.66	*****	80
BO RD	950	0	HOR	YES	YES	*****	0.65	*****	29
H-0.4	974	0	HOR	YES	YES	*****	-0.24	*****	70
H APP	1000	0	HOR	YES	YES	*****	-0.24	*****	70
I-4.1	1050	0	HOR	YES	YES	*****	0.53	*****	60
I	1100	1	HOR	YES	YES	*****	0.11	*****	50
I+2.3	1150	0	HOR	YES	YES	*****	0.03	*****	55
J-TW	1200	0	HOR	YES	YES	*****	0.12	*****	59
B JK	1300	2	N.A.	N.A.	N.A.	*****	0.12	*****	21 ⁰
K APP	1400	5	HOR	YES	YES	*****	-1.01	*****	70

OK

PAGE 1 OF EDITING NOTES FOR: GAP CREEK FLOODWAY I+2.3 TO K-1 1ST TRY

SECID	ERROR SEVERITY	FIRST VARIABLE NO.	ERROR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
B0 JK	WARNING	STATION 14	IS LESS THAN	STATION 13	

INPUT SUMMARY FOR: GAP CREEK FLOODWAY I+2.3 TO K-1 1ST TRY

5 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 5 TYPE 3 CARDS

KEPT 5 CROSS SECTIONS FOR EDITING

5 " " VALID FOR PROPERTY COMPUTATIONS

5 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY I+2.3 TO K-1 1ST TRY
 SECID=I+2.3 AT DISTANCE= 4625 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2978.0	12	262	1.00	24	25	127	151	51
2987.9	1269	158907	1.24	283	287	19	302	13707
2993.3	2900	551718	1.07	310	319	0	310	48649

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY I+2.3 TO K-1 1ST TRY
 SECID=J-TW AT DISTANCE= 5187 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2980.0	7	156	1.00	10	11	20	30	30
2989.9	525	42491	1.00	153	159	8	160	5523
2996.1	1667	247485	1.00	200	209	0	200	27293

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY I+2.3 TO K-1 1ST TRY
 SECID=BO JK AT DISTANCE= 5187 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2980.0	1	15	1.00	4	4	3	7	3
2989.9	266	31511	1.00	30	47	0	30	4492
2992.4	341	32873	1.00	0	82	0	30	0

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY I+2.3 TO K-1 1ST TRY
 SECID=K APP AT DISTANCE= 5290 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2981.0	5	69	1.00	13	13	281	294	16
2990.9	1401	122625	1.21	469	472	15	484	12475
2993.3	2679	298464	1.21	600	605	0	600	29184

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY I+2.3 TO K-1 1ST TRY
 SECID=K-1 AT DISTANCE= 5750 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
2984.0	3	27	1.00	14	14	86	100	6
2993.9	2059	205556	1.06	486	490	-8	478	23281
2994.8	2509	274125	1.05	515	519	-14	500	30708

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY I+2.3 TO K-1
 SECID=I+2.3 AT DISTANCE= 4625 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FIX UP

WS	A	K	ALPHA	B	P	LEW	REW	QC
2978.0	12	262	1.00	24	25	127	151	51
2987.9	458	73716	1.03	55	66	113	168	7394
2993.3	755	157601	1.04	55	77	113	168	15552

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY I+2.3 TO K-1
 SECID=J-TW AT DISTANCE= 5187 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FIX UP

WS	A	K	ALPHA	B	P	LEW	REW	QC
2980.0	7	156	1.00	10	11	20	30	30
2989.9	420	51569	1.00	59	70	12	71	6352
2996.1	786	131467	1.00	59	83	12	71	16260

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY I+2.3 TO K-1
 SECID=K APP AT DISTANCE= 5290 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FIX UP

WS	A	K	ALPHA	B	P	LEW	REW	QC
2981.0	5	69	1.00	13	13	201	294	16
2990.9	518	60028	1.03	80	90	284	314	7369
2993.3	710	98827	1.04	80	95	234	314	11771

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY I+2.3 TO K-1
 SECID=K-1 AT DISTANCE= 5750 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FIX UP

WS	A	K	ALPHA	B	P	LEW	REW	QC
2984.0	3	27	1.00	14	14	86	100	6
2993.9	535	64146	1.05	80	93	55	135	7635
2994.8	607	77977	1.05	80	95	55	135	9258

PAGE 1 OF PROFILE NOTES FOR: GAP CREEK FLOODWAY I+2.3 TO K-1 1ST TRY
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

WATER-SURFACE PROFILE FOR: GAP CREEK FLOODWAY I+2.3 TO K-1 1ST TRY
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FIX UP

=====

SECID	AT DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*
I+2.3	AT 4625	/ 0	/ 1650.	/ 247.	/ 26086.	/ 1.01	/ 113.	/ 168.
	2984.07	/ 0.70	/	/ 2984.77	/ 6.68	/ 0.54	/	*IS*

J-TW	AT 5187	/ 562	/ 1650.	/ 238.	/ 21222.	/ 1.00	/ 12.	/ 71.
	2986.81	/ 0.75	/ 2.76	/ 0.03	/ 2987.56	/ 6.95	/ 0.61	/ 0.002 *XS*

BEGIN BRIDGE ANALYSIS

BO JK	AT 5187	/	/ 1650.	/ 123.	/ 11060.	/ 1.00	/ 0.	/ 30.
	2986.81	/ 2.82	/ ...1...	/ (-.001)	/ 13.47	/ 0.99	/	*BO*

NO EMBANKMENT CROSS SECTION

K APP	AT 5290	/ 103	/ 1650.	/ 246.	/ 18662.	/ 1.13	/ 234.	/ 314.
	2987.50	/ 0.79	/ 0.71	/ 0.02	/ 2988.29	/ 6.70	/ 0.59	/ -0.001 *AS*

M = 0.46 / E = 0.15 / K* = 0.86 / ^{5.4}489. / 54004. / 1.03 / 234. / 314. ✓

USE 110.12 1991.11

2990.54 / 0.18 / / 2990.72 / 3.37 / 0.21 / *AS*

END BRIDGE ANALYSIS

K-1	AT 5750	/ 460	/ 1650.	/ 317.	/ 29087.	/ 1.11	/ 55.	/ 135.
	2991.18	/ 0.47	/ 0.79	/ 0.14	/ 2991.65	/ 5.20	/ 0.42	/ 0.000 *XS*

DO NOT USE

END OF THIS PROFILE

SUMMARY OF ENCROACHMENTS FOR: GAP CREEK FLOODWAY I+2.3 TO K-1 1ST TRY
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FIX UP (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
I+2.3	1150	1	HOR	YES	YES	*****	0.03	*****	55
J-TW	1200	0	HOR	YES	YES	*****	0.12	*****	59
BO JK	1300	2	N.A.	N.A.	N.A.	*****	0.12	*****	21
K APP	1400	5	HOR	YES	YES	*****	-0.57	*****	80
L	1449	0	HOR	YES	YES	*****	-0.05	*****	80

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
5	1606	157	2 30076	159	2 30070	162	2 30072	164 2 30070 166 2 30076
5	1607	167	2 30094	145	2 30103	200	3 30114	243 3 30110 291 3 30111
5	1608	300	3 30113	341	3 30124	350	3 30148	356 3 30172
6	1610	1	2 035 035	2	5 050 035	1	2 045 045	
3	1650	M-2	0 16 3 3012		8700 99 99			
5	1652	0	1 30223	40	1 30145	50	1 30144	58 2 30141 59 2 30131
5	1653	62	2 30110	65	2 30110	69	2 30116	70 3 30142 77 3 30148
5	1654	100	3 30151	148	3 30139	200	3 30146	215 3 30153 235 3 30173
5	1655	248	3 30223					
6	1660	1	2 040 035	1	2 050 050	1	2 045 040	
3	1700	N	0 19 3 3015		9110 99 99			
5	1705	0	1 30253	31	1 30208	49	1 30192	118 1 30182 145 1 30182
5	1706	180	1 30182	207	2 30185	217	2 30171	219 2 30143 220 2 30143
5	1707	222	2 30143	224	2 30144	225	2 30160	231 3 30182 279 3 30177
5	1708	300	3 30179	350	3 30198	394	3 30211	412 3 30250
6	1710	1	2 045 035	1	2 045 045	1	2 045 035	
3	1800	O-TW	0 18 3 3020		9690 99 99			
5	1805	0	1 30310	22	1 30289	25	1 30288	35 1 30273 45 1 30270
5	1806	130	1 30251	200	1 30241	285	1 30221	287 2 30205 289 2 30198
5	1807	294	2 30199	304	2 30197	308	2 30202	311 3 30235 324 3 30229
5	1808	359	3 30253	383	3 30290	396	3 30321	
6	1810	1	2 035 035	1	5 045 035	1	2 035 035	
3	1900	RO OP	2 R 1 3019		9690		0 30235 3 0	
5	1905	0	1 30236	0	1 30214	3	1 30205	6 1 30195 10 1 30184
5	1906	21	1 30194	21	1 30234	0	-9 30236	
6	1910	1	2 050 050					
3	2000	ROAD	4 R 3 24		1 3		2 2 2	
5	2005	0	1 30310	100	1 30278	200	1 30260	300 1 30252 364 2 30250
5	2006	385	3 30249	400	3 30252	500	3 30315	
3	2100	P APP	5 22 3 3019		9736 1			
5	2105	0	1 30315	80	1 30267	120	1 30251	200 1 30241 250 1 30242
5	2106	300	1 30235	309	1 30237	320	1 30249	335 1 30239 339 2 30228
5	2107	341	2 30207	345	2 30185	349	2 30185	353 2 30186 354 2 30207
5	2108	360	3 30226	364	3 30238	385	3 30250	403 3 30255 415 3 30261
5	2109	420	3 30205	450	3 30312			
6	2110	1	2 050 040	2	4 050 080	1	2 055 055	
3	2150	D-2	0 19 3 3023		10080 59 99			
5	2155	50	1 30351	0	1 30325	50	1 30299	100 1 30287 150 1 30285
5	2156	200	1 30278	250	1 30269	280	2 30261	283 2 30252 291 2 30243
5	2157	292	2 30229	296	2 30225	299	2 30224	302 2 30230 306 3 30262
5	2158	329	3 30263	346	3 30230	350	3 30285	378 3 30353
6	2160	1	2 045 035	1	2 050 035	1	2 045 035	

PAGE 1 OF EDITING NOTES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY

SECID	ERROR SEVERITY	FIRST VARIABLE NO.	ERROR MESSAGE	SECOND VARIABLE NO.	VALUE ASSUMED
L-2.8 RD 0P	WARNING WARNING	HSUB0 STATION	IS LESS THAN IS LESS THAN	GMIN STATION	> GMIN 7

INPUT SUMMARY FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY

14 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 14 TYPE 3 CARDS

KEPT 14 CROSS SECTIONS FOR EDITING

14 " " VALID FOR PROPERTY COMPUTATIONS

14 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=K APP AT DISTANCE= 5290 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2981.0	5	69	1.00	13	13	281	294	16
2990.9	1401	122625	1.21	469	472	15	484	12475
2993.3	2679	298464	1.21	600	605	0	600	29184

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=K-1 AT DISTANCE= 5750 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2984.0	3	27	1.00	14	14	86	100	6
2993.9	2059	205556	1.06	486	490	-8	478	23281
2994.8	2509	274125	1.05	515	519	-14	500	30708

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=L-2.B AT DISTANCE= 6000 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2995.9	1341	124773	1.36	361	363	9	370	12544
2998.1	2218	240525	1.28	434	437	0	434	25121

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=L AT DISTANCE= 6325 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2989.0	1	14	1.00	6	6	115	121	3
2998.9	1414	133637	1.36	368	370	8	375	13505
3000.9	2219	240741	1.28	434	437	0	434	25136

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=L-1 AT DISTANCE= 6900 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
2994.0	3	46	1.00	9	9	195	204	11
3003.9	1678	155138	1.00	462	469	20	482	18114
3005.9	2677	313879	1.00	524	531	0	524	34263

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=L-2 AT DISTANCE= 7420 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3001.0	2	26	1.00	10	10	403	413	6
3010.9	2862	358981	1.10	511	514	-25	485	36584
3012.5	3706	532583	1.12	540	544	-39	500	52033

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=M AT DISTANCE= 8160 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3008.0	8	186	1.00	9	10	157	166	39
3017.9	1966	241315	1.21	345	350	11	356	25235
3018.7	2247	295104	1.10	356	361	0	356	30507

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=M-2 AT DISTANCE= 8700 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3012.0	7	155	1.00	9	9	61	69	32
3021.9	1607	209998	1.00	245	250	2	247	23291
3022.3	1705	230219	1.00	248	253	0	248	25302

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=N AT DISTANCE= 9110 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3015.0	3	74	1.00	6	6	219	224	15
3024.9	2379	319735	1.00	409	412	3	412	32533
3025.3	2543	355408	1.00	412	416	0	412	35817

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=O-TW AT DISTANCE= 9690 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3020.0	3	33	1.00	18	18	288	306	8
3029.9	1941	251551	1.09	375	378	12	387	23980
3032.1	2795	440824	1.05	396	400	0	396	41131

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2
 SECID=B0 OP AT DISTANCE= 9690 3RD TRY
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3019.0	3	35	1.00	9	9	8	17	8
3023.6	87	3813	1.00	0	49	0	21	0

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2
 SECID=P APP AT DISTANCE= 9736 3RD TRY
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3019.0	4	69	1.00	9	9	344	353	15
3028.9	1596	139377	1.05	376	380	43	419	18240
3031.5	2666	296492	1.08	450	455	0	450	35422

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2
 SECID=P-2 AT DISTANCE= 10080 3RD TRY
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3023.0	4	58	1.00	10	10	292	302	13
3032.9	1730	208805	1.11	376	379	-7	368	20011
3035.3	2699	396906	1.06	428	431	-49	378	37292

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=K APP AT DISTANCE= 5290 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** K-APP TO END 80 TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
2981.0	5	69	1.00	13	13	201	294	16
2990.9	518	50028	1.03	80	90	234	314	7363
2993.3	710	98827	1.04	80	95	234	314	11771

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=K-1 AT DISTANCE= 5750 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** K-APP TO END 80 TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
2984.0	3	27	1.00	14	14	86	100	6
2993.9	535	64146	1.05	80	93	55	135	7635
2994.8	607	77977	1.05	80	95	55	135	9258

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=L-2.B AT DISTANCE= 5000 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** K-APP TO END 80 TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
2985.9	622	75312	1.00	79	89	87	166	9895
2998.1	796	109970	1.00	79	93	87	166	14321

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=L AT DISTANCE= 6325 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** K-APP TO END 80 TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
2989.0	1	14	1.00	6	6	115	121	3
2998.9	625	76897	1.00	76	87	88	164	10159
3000.9	777	107288	1.00	76	91	88	164	14084

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=L-1 AT DISTANCE= 6900 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** K-APP TO END 80 TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
2994.0	3	46	1.00	9	9	195	204	11
3003.9	491	45258	1.00	80	94	182	262	6888
3005.9	651	71334	1.04	80	98	182	262	10350

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2
 SECID=L-2 AT DISTANCE= 7420 3RD TRY
 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** K-APP TO END 80 TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
3001.0	2	26	1.00	10	10	403	413	6
3010.9	556	56811	1.25	80	94	365	445	7439
3012.5	684	78177	1.25	80	98	365	445	10135

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2
 SECID=M AT DISTANCE= 8160 3RD TRY
 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** K-APP TO END 80 TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
3008.0	8	186	1.00	9	10	157	166	39
3017.9	601	89050	1.11	80	96	130	210	8874
3018.7	665	104474	1.11	80	97	130	210	10308

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2
 SECID=M-2 AT DISTANCE= 8700 3RD TRY
 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** K-APP TO END 80 TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
3012.0	7	155	1.00	9	9	61	69	32
3021.9	604	77228	1.01	80	96	31	111	9366
3022.3	636	83730	1.01	80	97	31	111	10121

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2
 SECID=N AT DISTANCE= 9110 3RD TRY
 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** K-APP TO END 80 TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
3015.0	3	74	1.00	6	6	219	224	15
3024.9	608	79366	1.00	85	101	178	263	9218
3025.3	642	86488	1.00	85	102	178	263	10002

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2
 SECID=O-TW AT DISTANCE= 9690 3RD TRY
 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** K-APP TO END 80 TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
3020.0	3	33	1.00	18	18	288	306	8
3029.9	1112	168610	1.05	156	170	188	344	16453
3032.1	1455	258608	1.04	156	174	188	344	24773

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=P APP AT DISTANCE= 9736 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** K-APP TO END 80' TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
3019.0	4	69	1.00	9	9	344	353	15
3028.9	895	79104	1.12	175	186	240	415	10860
3031.5	1350	154902	1.13	175	191	240	415	20032

CROSS-SECTION PROPERTIES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 SECID=P-2 AT DISTANCE= 10080 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** K-APP TO END 80' TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
3023.0	4	54	1.00	10	10	292	302	13
3032.9	1057	149368	1.05	167	179	180	347	14728
3035.3	1457	249373	1.03	167	184	180	347	24068

PAGE 1 OF PROFILE NOTES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

SECID	ERROR (WARNING)	MESSAGE	INTERMEDIATE RESULTS (IF ANY)	ACTION TAKEN
K-1	:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
L	:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
L-1	:	TOL FAILURE BETWEEN	:	USED HIGHER WS
	:		WS = 2993.74 & WS = 2993.99	
L-1	:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
L-2	:	WS TOO LOW	:	USED WSMIN = WSC
M	:	WS TOO LOW	:	USED WSMIN = WSC
M	:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
P APP	:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER
P-2	:	KU/KD < 0.7 OR > 1.4	:	ALERTED USER

WATER-SURFACE PROFILE FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 PAGE 1 OF 1. PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** K-APP TO END 80 TRY

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SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
K APP AT	5290	0	1650.	535.	63140.	1.03	234.	314.	
	2991.11	0.15		2991.26	3.08	0.19	00	*IS*	

L K-1 AT 5750 / 460 / 1650. / 350. / 33585. / 1.10 / 55. / 135.
 2991.59 / 0.38 / 0.59 / 0.11 / 2991.97 / 4.72 / 0.37 / 0.000 *XS*

L-2.8 AT 6000 / 250 / 1650. / 339. / 28225. / 1.00 / 87. / 166.
 2992.32 / 0.37 / 0.72 / 0.0 / 2992.69 / 4.87 / 0.41 / 0.002 *XS*

M AT 6325 / 325 / 1650. / 251. / 17258. / 1.00 / 88. / 164.
 2993.99 / 0.67 / 1.82 / 0.15 / 2994.66 / 6.56 / 0.63 / 0.002 *XS*

N AT 6900 / 575 / 1300. / 187. / 11928. / 1.02 / 182. / 262.
 3000.02 / 0.76 / 6.08 / 0.05 / 3000.78 / 6.95 / 0.56 / 0.002 *XS*

O AT 7420 / 520 / 1300. / 190. / 11559. / 1.27 / 365. / 445.
 3006.33 / 0.92 / 6.37 / 0.08 / 3007.25 / 6.83 / 0.71 / 0.019 *XS*

P AT 8160 / 740 / 1300. / 228. / 16589. / 1.07 / 130. / 210.
 3013.24 / 0.54 / 6.52 / 0.0 / 3013.78 / 5.71 / 0.58 / 0.002 *XS*

Q AT 8700 / 540 / 1300. / 211. / 14488. / 1.04 / 31. / 111.
 3016.99 / 0.61 / 3.80 / 0.04 / 3017.60 / 6.15 / 0.64 / -0.012 *XS*

R AT 9110 / 410 / 1300. / 214. / 14768. / 1.01 / 178. / 263.
 3020.27 / 0.58 / 3.24 / 0.0 / 3020.85 / 6.06 / 0.59 / 0.009 *XS*

S D-TW AT 9690 / 580 / 1300. / 240. / 16258. / 1.52 / 188. / 344.
 3024.31 / 0.69 / 4.08 / 0.06 / 3025.01 / 5.41 / 0.69 / 0.019 *XS*

===== BEGIN BRIDGE ANALYSIS =====
 80-OP AT 9690 / / 802. / 87. / 3813. / 1.00 / 0. / 21.
 3023.60 / 1.32 / ...3... (-.001) / 9.23 / 0.80 / *80*

EMBANKMENT OVERFLOW (CFS) / LEFT 413. / RIGHT 82. / *96*

T APP AT 9736 / 46 / 1300. / 213. / 8088. / 1.25 / 240. / 383.
 3024.91 / 0.73 / 0.59 / 0.02 / 3025.63 / 6.09 / 0.63 / 0.019 *AS*

M = **** / E = **** / K* = **** / 426. / 23885. / 1.10 / 240. / 415.
 100/R 3026.22 / 0.16 / / 3026.38 / 3.05 / 0.40 / *AS*

===== END BRIDGE ANALYSIS =====
 P AT 10080 / 344 / 1300. / 187. / 12082. / 1.77 / 208. / 343.
 3027.65 / 1.32 / 2.01 / 0.58 / 3028.97 / 6.93 / 0.95 / -0.000 *XS*

(USE 100 YR) VISA
 100/R

100 YR

344
 100/R
 150

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 15, DATE= 3/ 6/78

COMPUTED WSC VALUES FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID	L-2	M
WSC	3006.24	3012.49

SUMMARY OF ENCROACHMENTS FOR: GAP CREEK FLOODWAY K THRU P-2 3RD TRY
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED K-APP TO END 80*TRY (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
K APP	1400	1	HOR	YES	YES	*****	0.0	*****	80//4
L-1	1449	0	HOR	YES	YES	*****	0.36	*****	80
L-2.B	1470	0	HOR	YES	YES	*****	0.68	*****	79
ML	1500	0	HOR	YES	YES	*****	0.01	*****	75
NL-1	1530	1	HOR	YES	YES	*****	0.17	*****	80
OL-2	1550	0	HOR	YES	YES	*****	0.98	*****	80
PM	1600	0	HOR	YES	YES	*****	0.90	*****	80
Q.M-2	1650	0	HOR	YES	YES	*****	0.75	*****	80
R.N	1700	0	HOR	YES	YES	*****	0.99	*****	85
S.O-TW	1800	0	HOR	YES	YES	*****	0.04	*****	156 100 yr limits
BO.OP	1900	2	N.A.	N.A.	N.A.	*****	0.670	*****	21
ROAD	2000	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
T.P APP	2100	5	HOR	YES	YES	*****	0.070	*****	175 Aligned with water flow
U.P-2	2150	0	HOR	YES	YES	*****	0.670	*****	134 100 yr limits

V CUT NR FLOODWAY