

HODGES

CREEK

PAGE 1 OF EDITING NOTES FOR: HODGES CREEK ALL FLOODS REVISED

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
BO-BC	WARNING	STATION	13	IS LESS THAN	STATION	12	

INPUT SUMMARY FOR: HODGES CREEK ALL FLOODS REVISED

7 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 8 TYPE 3 CARDS

KEPT 8 CROSS SECTIONS FOR EDITING

8 " " VALID FOR PROPERTY COMPUTATIONS

8 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: HODGES CREEK ALL FLOODS
 SECID=D AT DISTANCE= -135 REVISED
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3119.0	19	482	1.00	23	23	218	241	96
3128.9	4330	619643	1.19	536	546	4	540	63883
3131.0	5461	901191	1.19	540	552	0	540	90265

CROSS-SECTION PROPERTIES FOR: HODGES CREEK ALL FLOODS
 SECID=A AT DISTANCE= 170 REVISED
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3120.0	12	251	1.00	15	15	620	635	61
3129.9	3414	572504	1.02	400	419	430	830	55895
3131.0	3854	698762	1.02	400	421	430	830	67036

CROSS-SECTION PROPERTIES FOR: HODGES CREEK ALL FLOODS
 SECID=B-TW AT DISTANCE= 708 REVISED
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3123.0	7	124	1.00	11	11	636	647	31
3132.9	5116	748321	1.04	762	772	400	1162	73657
3135.0	6757	1152246	1.04	800	811	400	1200	109289

CROSS-SECTION PROPERTIES FOR: HODGES CREEK ALL FLOODS
 SECID=80-BC AT DISTANCE= 708 REVISED
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3123.0	2	23	1.00	12	13	10	22	6
3126.7	93	3655	1.00	0	62	0	28	0

CROSS-SECTION PROPERTIES FOR: HODGES CREEK ALL FLOODS
 SECID=C-APP AT DISTANCE= 780 REVISED
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3124.0	11	220	1.00	14	14	216	230	53
3133.0	2592	317138	1.02	401	405	-9	391	36989

CROSS-SECTION PROPERTIES FOR: HODGES CREEK ALL FLOODS
 SECID=D AT DISTANCE= 924

REVISED
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3124.0	2	27	1.00	4	5	171	175	8
3133.9	2509	308072	1.04	374	378	-1	372	36136
3136.3	4215	705564	1.04	395	404	-14	380	76548

CROSS-SECTION PROPERTIES FOR: HODGES CREEK ALL FLOODS
 SECID=E AT DISTANCE= 1136

REVISED
 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3126.0	12	285	1.00	11	12	204	215	68
3135.9	2591	348578	1.03	345	351	-4	340	39619
3138.6	3528	575821	1.03	350	360	-9	340	62455

PAGE 1 OF PROFILE NOTES FOR: HODGES CREEK ALL FLOODS REVISED
 PROFILE NUMBER 1. UPSTREAM COMPUTATIONS

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

A	; KU/KD < 0.7 OR > 1.4			ALERTED USER
B-TW	; FRDN FAILURE			
		; WS = 3122.88 & FR = 24.26;		USED HIGHER WS
B-TW	; FRDN FAILURE			
		; WS = 3125.21 & FR = 1.05;		USED HIGHER WS
B-TW	; WS NOT FOUND BETWEEN			
		; WS = 3122.48 & WS = 3135.00;		USED DEL = 0.25
B-TW	; FRDN FAILURE			
		; WS = 3122.88 & FR = 24.28;		USED HIGHER WS
B-TW	; FRDN FAILURE			
		; WS = 3125.21 & FR = 1.05;		USED HIGHER WS
B-TW	; WS NOT FOUND BETWEEN			
		; WS = 3122.48 & WS = 3135.00;		USED WSMIN = WSC
B-TW	; WS NOT FOUND			ASSUMED WS = WSC
C-APP	; KU/KD < 0.7 OR > 1.4			ALERTED USER
C-APP	; WSU > BELMX (1)			CHECKED QRO (2)
D	; KU/KD < 0.7 OR > 1.4			ALERTED USER
E	; KU/KD < 0.7 OR > 1.4			ALERTED USER

10/11

WATER-SURFACE PROFILE FOR: HODGES CREEK ALL FLOODS REVISED
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
D AT -135 / 0 / 1780. / 824. / 43240. / 1.38 / 39. / 540.
  3122.25 / 0.10 / / 3122.35 / 2.16 / 0.32/ *IS*
-----
A AT 170 / 305 / 540. / 546. / 24165. / 1.00 / 430. / 830.
  3122.73 / 0.02 / 0.39 / 0.0 / 3122.75 / 0.99 / 0.15 / 0.002 *XS*
-----
B-TW AT 708 / 538 / 540. / 148. / 3801. / 1.15 / 400. / 697.
  3125.39 / 0.24 /***** /***** / 3125.63 / 3.65 / 0.82 /***** *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-BC AT 708 / / 515. / 93. / 3655. / 1.00 / 0. / 28.
  3126.70 / 0.47 / ...2... (-.001) / 5.51 / 0.53 / *B0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 20. / RIGHT 0. / *RG*
-----
C-APP AT 780 / 72 / 540. / 227. / 7163. / 1.27 / 78. / 342.
  3126.30 / 0.11 / 0.77 / 0.0 / 3126.42 / 2.38 / 0.38 / 0.013 *AS*
-----
M = **** / E = **** / K* = **** / 501. / 22767. / 1.03 / 47. / 344.
  3127.28 / 0.07 / / 3127.30 / 1.08 / 0.15 / *AS*
===== END BRIDGE ANALYSIS =====
D AT 924 / 144 / 540. / 365. / 13818. / 1.07 / 58. / 347.
  3127.41 / 0.04 / 0.13 / 0.01 / 3127.44 / 1.48 / 0.24 / 0.002 *XS*
-----
E AT 1136 / 212 / 540. / 174. / 5023. / 1.17 / 80. / 307.
  3128.25 / 0.17 / 0.89 / 0.07 / 3128.42 / 3.10 / 0.59 / 0.018 *XS*
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END OF THIS PROFILE

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

REVISED

SECID B-TW
WSC 3125.39

PAGE 1 OF PROFILE NOTES FOR: HODGES CREEK ALL FLOODS REVISED
 PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

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

A	; KU/KD < 0.7 OR > 1.4				
					ALERTED USER
B-TW	; FRDN FAILURE				
		; WS = 3123.97	& FR = 8.27;		USED HIGHER WS
B-TW	; FRDN FAILURE				
		; WS = 3125.52	& FR = 1.22;		USED HIGHER WS
B-TW	; WS NOT FOUND BETWEEN				
		; WS = 3123.13	& WS = 3135.00;		USED DEL = 0.25
B-TW	; FRDN FAILURE				
		; WS = 3123.97	& FR = 8.27;		USED HIGHER WS
B-TW	; FRDN FAILURE				
		; WS = 3125.52	& FR = 1.21;		USED HIGHER WS
B-TW	; WS NOT FOUND BETWEEN				
		; WS = 3123.13	& WS = 3135.00;		USED WSMIN = WSC
B-TW	; WS NOT FOUND				
					ASSUMED WS = WSC
C-APP	; KU/KD < 0.7 OR > 1.4				
					ALERTED USER
C-APP	; WSU > BELMX (1)				
					CHECKED QBO (2)
E	; KU/KD < 0.7 OR > 1.4				
					ALERTED USER

504R

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

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID*	
D	AT	-135	0	2720.	1216.	81226.	1.27	24.	540.
3123.02	0.10			3123.12	2.24	0.29		*IS*	
A	AT	170	305	990.	806.	45822.	1.00	430.	830.
3123.38	0.02	0.28	0.0	3123.40	1.23	0.16	0.001	*XS*	
B-TW	AT	708	538	990.	241.	6897.	1.15	400.	829.
3125.66	0.30	*****	*****	3125.96	4.10	0.89	*****	*XS*	
===== BEGIN BRIDGE ANALYSIS =====									
BO-BC	AT	708		652.	93.	3655.	1.00	0.	28.
3126.70	0.76	(-.001)	6.97	0.67		*BO*	
===== EMBANKMENT OVERFLOW (CFS) / LEFT 345. / RIGHT 0. / *RG* =====									
C-APP	AT	780	72	990.	323.	11942.	1.13	66.	342.
3126.66	0.17	0.86	0.0	3126.82	3.07	0.49	0.009	*AS*	
M = ****	E = ****	K* = ****		733.	40685.	1.05	-0.	345.	
3128.03	0.03			3128.06	1.35	0.17		*AS*	
===== END BRIDGE ANALYSIS =====									
D	AT	924	144	990.	584.	28505.	1.03	45.	348.
3128.15	0.05	0.12	0.01	3128.19	1.69	0.23	0.000	*XS*	
E	AT	1136	212	990.	299.	10596.	1.05	62.	319.
3128.77	0.18	0.69	0.07	3128.95	3.32	0.55	0.007	*XS*	

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: HODGES CREEK ALL FLOODS
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

REVISED

SECID B-TW
WSC 3125.66

PAGE 1 OF PROFILE NOTES FOR: HODGES CREEK ALL FLOODS REVISED
 PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

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

A	; KU/KD < 0.7 OR > 1.4				
					ALERTED USER
B-TW	; FRDN FAILURE				
		; WS = 3124.85	& FR = 4.72;		
					USED HIGHER WS
B-TW	; FRDN FAILURE				
		; WS = 3125.59	& FR = 1.30;		
					USED HIGHER WS
B-TW	; WS NOT FOUND BETWEEN				
		; WS = 3123.65	& WS = 3135.00;		
					USED DEL = 0.25
B-TW	; FRDN FAILURE				
		; WS = 3124.85	& FR = 4.72;		
					USED HIGHER WS
B-TW	; FRDN FAILURE				
		; WS = 3125.59	& FR = 1.29;		
					USED HIGHER WS
B-TW	; WS NOT FOUND BETWEEN				
		; WS = 3123.65	& WS = 3135.00;		
					USED WSMI1 = WSC
B-TW	; WS NOT FOUND				
					ASSUMED WS = WSC
C-APP	; KU/KD < 0.7 OR > 1.4				
					ALERTED USER
C-APP	; WSU > BELMX (1)				
					CHECKED QRO (2)
E	; KU/KD < 0.7 OR > 1.4				
					ALERTED USER

100 YR

WATER-SURFACE PROFILE FOR: HODGES CREEK ALL FLOODS REVISED
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

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SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
D AT -135 / 0 / 3090. / 1561. / 119981. / 1.24 / 15. / 540.
3123.68 / 0.08 / / 3123.76 / 1.98 / 0.23/ *IS*
-----
A AT 170 / 305 / 1210. / 1014. / 70939. / 1.01 / 430. / 830.
3123.90 / 0.02 / 0.17 / 0.0 / 3123.92 / 1.19 / 0.14 / 0.000 *XS*
-----
B-TW AT 708 / 538 / 1210. / 292. / 8674. / 1.17 / 400. / 885.
3125.77 / 0.31 / ***** / ***** / 3126.08 / 4.14 / 0.88 / ***** *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-BC AT 708 / / 681. / 93. / 3655. / 1.00 / 0. / 28.
3126.70 / 0.83 / ...2... (-.001) / 7.29 / 0.70 / *R0*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 526. / RIGHT 0. / *RG*
-----
C-APP AT 780 / 72 / 1210. / 354. / 13704. / 1.10 / 63. / 343.
3126.77 / 0.20 / 0.89 / 0.0 / 3126.97 / 3.42 / 0.54 / 0.003 *AS*
-----
M = **** / E = **** / K* = **** / 813. / 47543. / 1.07 / -1. / 345.
3128.27 / 0.04 / / 3128.30 / 1.49 / 0.19 / *AS*
===== END BRIDGE ANALYSIS =====
D AT 924 / 144 / 1210. / 657. / 34621. / 1.03 / 43. / 348.
3128.39 / 0.05 / 0.13 / 0.01 / 3128.44 / 1.84 / 0.24 / 0.000 *XS*
-----
E AT 1136 / 212 / 1210. / 354. / 13591. / 1.03 / 54. / 321.
3128.99 / 0.19 / 0.66 / 0.07 / 3129.17 / 3.42 / 0.54 / 0.006 *XS*
=====
    
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END OF THIS PROFILE

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

REVISED

SECID B-TW
WSC 3125.77

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

REVISED

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

A	; KU/KD < 0.7 OR > 1.4				ALERTED USER
B-TW	; FRDN FAILURE				
		; WS = 3125.08 & FR =	5.03;		USED HIGHER WS
B-TW	; FRDN FAILURE				
		; WS = 3125.95 & FR =	1.03;		USED HIGHER WS
B-TW	; WS NOT FOUND BETWEEN				
		; WS = 3124.75 & WS = 3135.00;			USED DEL = 0.25
B-TW	; FRDN FAILURE				
		; WS = 3125.08 & FR =	5.03;		USED HIGHER WS
B-TW	; FRDN FAILURE				
		; WS = 3125.95 & FR =	1.02;		USED HIGHER WS
B-TW	; WS NOT FOUND BETWEEN				
		; WS = 3124.75 & WS = 3135.00;			USED WSMIN = WSC
B-TW	; WS NOT FOUND				ASSUMED WS = WSC
C-APP	; KU/KD < 0.7 OR > 1.4				ALERTED USER
C-APP	; WSU > BELMX (1)				CHECKED QBO (2)
E	; KU/KD < 0.7 OR > 1.4				ALERTED USER

500 YR

WATER-SURFACE PROFILE FOR: HODGES CREEK ALL FLOODS REVISION
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
D AT -135 / 0 / 4190. / 2181. / 204972. / 1.21 / 13. / 540.
3124.86 / 0.07 / / 3124.93 / 1.92 / 0.19 / *IS*
-----
A AT 170 / 305 / 1880. / 1455. / 139215. / 1.02 / 430. / 830.
3125.00 / 0.03 / 0.10 / 0.0 / 3125.03 / 1.29 / 0.12 / -0.000 *XS*
-----
B-TW AT 708 / 538 / 1880. / 407. / 13501. / 1.15 / 400. / 922.
3126.00 / 0.38 /***** /***** / 3126.38 / 4.62 / 0.92 /***** *XS*
===== BEGIN BRIDGE ANALYSIS =====
BO-BO AT 708 / / 745. / 93. / 3655. / 1.00 / 0. / 28.
3126.70 / 0.99 / ...2... (-.001) / 7.97 / 0.77 / *BO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 1127. / RIGHT 10. / *R6*
-----
C-APP AT 780 / 72 / 1880. / 442. / 18938. / 1.05 / 53. / 343.
3127.08 / 0.30 / 1.00 / 0.0 / 3127.38 / 4.26 / 0.62 / 0.003 *AS*
-----
M = **** / E = **** / K* = **** / 1010. / 70036. / 1.05 / -2. / 347.
3128.83 / 0.06 / / 3128.89 / 1.86 / 0.19 / *AS*
===== END BRIDGE ANALYSIS =====
D AT 924 / 144 / 1880. / 835. / 52202. / 1.06 / 38. / 349.
3128.96 / 0.08 / 0.14 / 0.01 / 3129.04 / 2.25 / 0.27 / -0.000 *XS*
-----
E AT 1136 / 212 / 1880. / 504. / 23069. / 1.01 / 44. / 332.
3129.52 / 0.22 / 0.62 / 0.07 / 3129.74 / 3.73 / 0.52 / 0.003 *XS*
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END OF THIS PROFILE

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

REVISED

SECID B-TW
WSC 3126.00

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1	HODGES	CREEK 100&500	CHECKING	DOWNSTREAM	CHECK	8	2 02 99 10
2	2	-99999	-99999					
3	50	D	1 21 3 3119	-135	99 99			
4	51	3090	4190					
5	55	0	1 31305	16	1 31234	40	1 31222	100 1 31221 150 1 31202
5	56	163	1 31200	200	1 31192	218	2 31190	220 2 31181 222 2 31177
5	57	225	2 31178	232	2 31181	237	2 31186	240 2 31187 244 3 31204
5	58	260	3 31203	300	3 31202	400	3 31206	500 3 31211 540 3 31212
5	59	540	3 31310					
6	60	1 2	060 060	2 3	050 040	1 2	040 035	
3	100	A	1 16 3 3120	170	99 99			
4	101	1210	1880					
5	107	430	1 31310	430	1 31218	500	1 31218	600 1 31207 611 1 31218
5	108	619	2 31214	620	2 31198	624	2 31194	629 2 31189 633 2 31186
5	109	637	3 31223	666	3 31215	700	3 31215	800 3 31212 830 3 31212
5	110	830	3 31310					
6	111	2 3	040 035	3 4	060 065	2 3	040 035	
3	200	B-TW	0 18 3 3123	708	99 99			
5	205	400	1 31350	400	1 31253	500	1 31247	600 1 31250 616 2 31259
5	206	630	2 31248	635	2 31236	637	2 31224	642 2 31223 646 2 31222
5	207	648	2 31238	654	3 31253	700	3 31254	800 3 31256 900 3 31258
5	208	1000	3 31267	1100	3 31294	1200	3 31350	
6	210	2 3	040 035	3 4	060 065	2 3	040 035	
3	300	B0-BC	2 13 1 3123	708	0 31266	3 0		
5	305	0	1 31265	0	1 31237	1	1 31234	5 1 31233 8 1 31231
5	306	14	1 31228	17	1 31230	19	1 31229	21 1 31220 23 1 31241
5	307	28	1 31245	28	1 31267	0	-9 31265	
6	310	1 2	050 050					
3	350	RD-BC	4 11 2 34	1	2	1	1	2
5	355	0	1 31310	0	1 31270	50	1 31271	100 1 31273 150 1 31276
5	356	217	1 31284	231	2 31285	245	2 31286	300 2 31295 350 2 31302
5	357	395	2 31310					
3	400	C-APP	5 21 3 3124	780	99 99			
5	405	-10	1 31330	0	1 31280	22	1 31281	37 1 31276 87 1 31260
5	406	137	1 31258	183	1 31257	199	1 31251	205 2 31250 212 2 31240
5	407	216	2 31241	220	2 31232	227	2 31227	228 2 31232 233 3 31252
5	408	243	3 31255	250	3 31254	300	3 31254	341 3 31259 348 3 31296
5	409	391	3 31314					
6	412	2 3	045 040	3 4	060 070	2 3	045 040	
3	500	D	0 20 3 3124	924	99 99			
5	505	-15	1 31383	0	1 31333	50	1 31276	90 1 31266 108 1 31270
5	506	158	1 31259	170	2 31264	171	2 31235	174 2 31234 176 2 31248
5	507	188	2 31242	195	2 31246	203	2 31259	210 3 31267 260 3 31257
5	508	310	3 31259	346	3 31270	355	3 31324	365 3 31333 380 3 31346
6	510	2 3	045 040	3 4	060 070	2 3	045 040	

PAGE 1 OF EDITING NOTES FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
B0-BC	WARNING	STATION	13	IS LESS THAN	STATION	12	

INPUT SUMMARY FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK

8 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 8 TYPE 3 CARDS

KEPT: 9 CROSS SECTIONS FOR EDITING

8 " " VALID FOR PROPERTY COMPUTATIONS

8 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK
 SECID=D AT DISTANCE= -135 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3119.0	19	482	1.00	23	23	218	241	96
3128.9	4330	619643	1.19	536	546	4	540	63883
3131.0	5461	901191	1.19	540	552	0	540	90265

CROSS-SECTION PROPERTIES FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK
 SECID=A AT DISTANCE= 170 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3120.0	12	251	1.00	15	15	620	635	61
3129.9	3414	572504	1.02	400	419	430	830	55895
3131.0	3854	698762	1.02	400	421	430	830	67036

CROSS-SECTION PROPERTIES FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK
 SECID=B-TW AT DISTANCE= 708 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3123.0	7	124	1.00	11	11	636	647	31
3132.9	5116	748321	1.04	762	772	400	1162	73657
3135.0	6757	1152246	1.04	800	811	400	1200	109289

CROSS-SECTION PROPERTIES FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK
 SECID=BO-BC AT DISTANCE= 708 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3123.0	2	23	1.00	12	13	10	22	6
3126.7	93	3655	1.00	0	62	0	28	0

CROSS-SECTION PROPERTIES FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK
 SECID=C-APP AT DISTANCE= 780 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3124.0	11	220	1.00	14	14	216	230	53
3133.0	2592	317138	1.02	401	405	-9	391	36989

CROSS-SECTION PROPERTIES FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK
 SECID=D AT DISTANCE= 924 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3124.0	2	27	1.00	4	5	171	175	8
3133.9	2509	308072	1.04	374	378	-1	372	36136
3138.3	4215	705564	1.04	395	404	-14	380	76548

CROSS-SECTION PROPERTIES FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK
 SECID=E AT DISTANCE= 1136 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3126.0	12	285	1.00	11	12	204	215	68
3135.9	2591	348578	1.03	345	351	-4	340	39619
3138.6	3528	575821	1.03	350	360	-9	340	62455

PAGE 1 OF PROFILE NOTES FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK
 PROFILE NUMBER 1, DOWNSTREAM COMPUTATIONS

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

E	; WS TOO LOW			ASSUMED WS = WSC
D	; WS NOT FOUND BETWEEN			
		; WS = 3126.96 & WS = 3123.60;		USED DEL = 0.25
D	; WS NOT FOUND BETWEEN			
		; WS = 3126.96 & WS = 3123.60;		USED KE = 0.5
D	; WS NOT FOUND			ASSUMED WS = WSC
C-APP	; WS NOT FOUND BETWEEN			
		; WS = 3126.43 & WS = 3122.90;		USED DEL = 0.25
C-APP	; WS NOT FOUND BETWEEN			
		; WS = 3126.43 & WS = 3122.90;		USED KE = 0.5
C-APP	; WS NOT FOUND			ASSUMED WS = WSC
B0-BC	; WS NOT FOUND BETWEEN			
		; WS = 3126.57 & WS = 3122.20;		USED DEL = 0.25
B0-BC	; WS NOT FOUND BETWEEN			
		; WS = 3126.57 & WS = 3122.20;		USED KE = 0.5
B0-BC	; WS NOT FOUND			ASSUMED WS = WSC
B-TW	; WS TOO HIGH			ASSUMED WS = WSC
A	; WS NOT FOUND BETWEEN			
		; WS = 3122.07 & WS = 3118.80;		USED DEL = 0.25
A	; WS NOT FOUND BETWEEN			
		; WS = 3122.07 & WS = 3118.80;		USED KE = 0.5
A	; WS NOT FOUND			ASSUMED WS = WSC
D	; WS NOT FOUND BETWEEN			
		; WS = 3121.80 & WS = 3117.90;		USED DEL = 0.25
D	; WS NOT FOUND BETWEEN			
		; WS = 3121.80 & WS = 3117.90;		USED KE = 0.5
D	; WS NOT FOUND			ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK
 PAGE 1 OF 1, PROFILE NUMBER 1, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW	WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID
E	AT	1136	0	1210.	234.	7523.	1.08	71.	313.	3128.51	0.45			3128.96	5.18	0.95		*IS*
D	AT	924	-212	1210.	239.	7446.	1.14	76.	345.	3126.96	0.46	*****	*****	3127.41	5.07	1.01	*****	*XS*
C-APP	AT	780	-144	1210.	260.	8713.	1.20	74.	342.	3126.43	0.41	*****	*****	3126.83	4.65	0.91	*****	*AS*
BO-BC	AT	708	-72	1210.	92.	4481.	1.00	0.	28.	3126.57	2.67	*****	*****	3129.24	13.10	1.27	*****	*B0*
B-TW	AT	708	0	1210.	355.	11132.	1.16	400.	911.	3125.77	0.2	*****	*****	3125.98	3.41	0.78	*****	*XS*
A	AT	170	-538	1210.	284.	8536.	1.12	430.	830.	3122.07	0.32	*****	*****	3122.39	4.26	0.93	*****	*XS*
D	AT	-135	-305	3090.	621.	28558.	1.42	108.	540.	3121.80	0.55	*****	*****	3122.34	4.98	0.87	*****	*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK
PROFILE NUMBER 1, DOWNSTREAM COMPUTATIONS

SECID	D	A	B-TW	BO-8C	C-APP	U	E
WSC	3121.80	3122.07	3125.77	3126.57	3126.43	3126.96	3128.51

PAGE 1 OF PROFILE NOTES FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK
 PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	ERROR(WARNING) MESSAGE	INTERMEDIATE RESULTS(IF ANY)	ACTION TAKEN
E	; WS TOO LOW		ASSUMED WS = WSC
D	; WS NOT FOUND BETWEEN	; WS = 3127.30 & WS = 3123.60;	USED DEL = 0.25
D	; WS NOT FOUND BETWEEN	; WS = 3127.30 & WS = 3123.60;	USED KE = 0.5
D	; WS NOT FOUND		ASSUMED WS = WSC
C-APP	; WS NOT FOUND BETWEEN	; WS = 3126.71 & WS = 3122.90;	USED DEL = 0.25
C-APP	; WS NOT FOUND BETWEEN	; WS = 3126.71 & WS = 3122.90;	USED KE = 0.5
C-APP	; WS NOT FOUND		ASSUMED WS = WSC
BO-BC	; WS NOT FOUND BETWEEN	; WS = 3126.64 & WS = 3122.20;	USED DEL = 0.25
BO-BC	; WS NOT FOUND BETWEEN	; WS = 3126.64 & WS = 3122.20;	USED KE = 0.5
BO-BC	; WS NOT FOUND		ASSUMED WS = WSC
B-TW	; WS TOO HIGH		ASSUMED WS = WSC
A	; WS NOT FOUND BETWEEN	; WS = 3122.30 & WS = 3118.80;	USED DEL = 0.25
A	; WS NOT FOUND BETWEEN	; WS = 3122.30 & WS = 3118.80;	USED KE = 0.5
A	; WS NOT FOUND		ASSUMED WS = WSC
D	; WS NOT FOUND BETWEEN	; WS = 3122.03 & WS = 3117.90;	USED DEL = 0.25
D	; WS NOT FOUND BETWEEN	; WS = 3122.03 & WS = 3117.90;	USED KE = 0.5
D	; WS NOT FOUND		ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK
 PAGE 1 OF 1, PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

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=====
SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
WS ELEV / HV / HF / HE / EG / V / FN / ACC *ID*
=====
E AT 1136 / 0 / 1880. / 316. / 11492. / 1.04 / 59. / 320.
3128.84 / 0.57 / / 3129.41 / 5.95 / 0.97/ *IS*
-----
D AT 924 / -212 / 1880. / 334. / 12110. / 1.08 / 62. / 347.
3127.30 / 0.53 /***** /***** / 3127.83 / 5.63 / 0.95 /***** *XS*
-----
C-APP AT 780 / -144 / 1880. / 338. / 12793. / 1.12 / 65. / 343.
3126.71 / 0.54 /***** /***** / 3127.25 / 5.57 / 0.94 /***** *AS*
-----
BO-BC AT 708 / -72 / 1880. / 93. / 3981. / 1.00 / 0. / 28.
3126.64 / 6.32 /***** /***** / 3132.96 / 20.16 / 1.95 /***** *BO*
-----
B-TW AT 708 / 0 / 1880. / 474. / 16786. / 1.13 / 400. / 936.
3126.00 / 0.28 /***** /***** / 3126.27 / 3.97 / 0.79 /***** *XS*
-----
A AT 170 / -538 / 1880. / 375. / 13081. / 1.04 / 430. / 830.
3122.30 / 0.41 /***** /***** / 3122.71 / 5.02 / 0.93 /***** *XS*
-----
D AT -135 / -305 / 4190. / 723. / 36601. / 1.31 / 102. / 540.
3122.03 / 0.69 /***** /***** / 3122.72 / 5.79 / 0.91 /***** *XS*
=====
    
```

END OF THIS PROFILE



COMPUTED WSC VALUES FOR: HODGES CREEK 100&500 CHECKING DOWNSTREAM CHECK
PROFILE NUMBER 2, DOWNSTREAM COMPUTATIONS

SECID	D	A	B-TW	BO-BC	C-APP	D	E
WSC	3122.03	3122.30	3126.00	3126.64	3126.71	3127.30	3128.84

*** INPUT CARD PRINTOUT ***

	1	2	3	4	5	6	7	8
1	1							
2	2							
3	100	A	1	16	3	3120	170	99 99
4	101		1210					
5	107		430	1	31310	430	1	31218 50 1 31218 600 1 31207 611 1 31218
5	108		619	2	31214	620	2	31198 624 2 31194 629 2 31189 633 2 31186
5	109		637	3	31223	666	3	31215 700 3 31215 800 3 31212 830 3 31212
5	110		830	3	31310			
6	111	2	3	040	035	3	4	060 065 2 3 040 035
3	200	B-TW	0	18	3	3123	708	99 99
5	205		400	1	31350	400	1	31253 500 1 31247 600 1 31250 616 2 31259
5	206		630	2	31248	635	2	31236 637 2 31224 642 2 31223 646 2 31222
5	207		648	2	31238	654	3	31253 700 3 31254 800 3 31256 900 3 31258
5	208		1000	3	31267	1100	3	31294 1200 3 31350
6	210	2	3	040	035	3	4	060 065 2 3 040 035
3	300	RO-BC	2	13	1	3123	708	0 31266 3 0
5	305		0	1	31265	0	1	31237 1 1 31234 5 1 31233 8 1 31231
5	306		14	1	31228	17	1	31230 19 1 31229 21 1 31220 23 1 31241
5	307		28	1	31245	28	1	31267 0 -9 31265
6	310	1	2	050	050			
3	350	RD-BC	4	11	2	34	1	2 1 1 2
5	355		0	1	31310	0	1	31270 50 1 31271 100 1 31273 150 1 31276
5	356		217	1	31284	231	2	31285 245 2 31286 300 2 31295 350 2 31302
5	357		395	2	31310			
3	400	C-APP	5	21	3	3124	780	1 3
5	405		-10	1	31330	0	1	31280 22 1 31281 37 1 31276 87 1 31260
5	406		137	1	31258	183	1	31257 199 1 31251 205 2 31250 212 2 31240
5	407		216	2	31241	220	2	31232 227 2 31227 228 2 31232 233 3 31252
5	408		243	3	31255	250	3	31254 300 3 31254 341 3 31259 348 3 31296
5	409		391	3	31314			
6	412	2	3	045	040	3	4	060 070 2 3 045 040
3	500	D	0	20	3	3124	924	99 99
5	505		-15	1	31383	0	1	31333 50 1 31276 90 1 31266 108 1 31270
5	506		158	1	31259	170	2	31264 171 2 31235 174 2 31234 176 2 31248
5	507		188	2	31242	195	2	31246 203 2 31259 210 3 31267 260 3 31257
5	508		310	3	31259	346	3	31270 355 3 31324 365 3 31333 380 3 31346
6	510	2	3	045	040	3	4	060 070 2 3 045 040
3	600	F	0	20	3	3126	1136	99 99
5	605		-10	1	31386	0	1	31336 4 1 31322 50 1 31291 100 1 31277
5	606		150	1	31274	195	1	31274 204 2 31280 204 2 31258 205 2 31249
5	607		211	2	31245	212	2	31248 216 2 31264 225 2 31271 231 3 31288
5	608		250	3	31277	278	3	31274 300 3 31279 332 3 31294 340 3 31350
6	610	2	3	045	040	3	4	060 070 2 3 045 040

OK
VSE

Encroachment to top of low water bank on right bank; no encroachment on left at A&B-TW

PAGE 1 OF EDITING NOTES FOR: HODGES CREEK FLOODWAY REVI SED FIRST

SECID	ERROR SEVERITY	FIRST VARIABLE	NO.	ERROR MESSAGE	SECOND VARIABLE	NO.	VALUE ASSUMED
RO-BC	WARNING	STATION	13	IS LESS THAN	STATION	12	

INPUT SUMMARY FOR: HODGES CREEK FLOODWAY REVI SED FIRST

7 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 7 TYPE 3 CARDS

KEPT 7 CROSS SECTIONS FOR EDITING

7 " " VALID FOR PROPERTY COMPUTATIONS

7 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: HODGES CREEK FLOODWAY REVI SED
 SECID=A AT DISTANCE= 170 FIRST PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3120.0	12	251	1.00	15	15	620	635	61
3129.9	3414	572504	1.02	400	419	430	830	55895
3131.0	3854	698762	1.02	400	421	430	830	67036

CROSS-SECTION PROPERTIES FOR: HODGES CREEK FLOODWAY REVI SED
 SECID=B-TW AT DISTANCE= 708 FIRST PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3123.0	7	124	1.00	11	11	636	647	31
3132.9	5116	748321	1.04	762	772	400	1162	73657
3135.0	6757	1152246	1.04	800	811	400	1200	109289

CROSS-SECTION PROPERTIES FOR: HODGES CREEK FLOODWAY REVI SED
 SECID=BO-BC AT DISTANCE= 708 FIRST PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3123.0	2	23	1.00	12	13	10	22	6
3126.7	93	3655	1.00	0	62	0	28	0

CROSS-SECTION PROPERTIES FOR: HODGES CREEK FLOODWAY REVI SED
 SECID=C-APP AT DISTANCE= 780 FIRST PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3124.0	11	220	1.00	14	14	216	230	53
3133.0	2592	317138	1.02	401	405	-9	391	36989

CROSS-SECTION PROPERTIES FOR: HODGES CREEK FLOODWAY REVI SED
 SECID=D AT DISTANCE= 924 FIRST PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3124.0	2	27	1.00	4	5	171	175	8
3133.9	2509	308072	1.04	374	378	-1	372	36136
3138.3	4215	705564	1.04	395	404	-14	380	76548

1

3

CROSS-SECTION PROPERTIES FOR: HODGES CREEK FLOODWAY REVI SED
SECID=E AT DISTANCE= 1136

FIRST
PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3126.0	12	285	1.00	11	12	204	215	68
3135.9	2591	348578	1.03	345	351	-4	340	39619
3138.6	3528	575821	1.03	350	360	-9	340	62455

CROSS-SECTION PROPERTIES FOR: HODGES CREEK FLOODWAY REVI SED
 SECID=A AT DISTANCE= 170 FIRST
 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FLOODWAY REVISED 100

WS	A	K	ALPHA	B	P	LEW	REW	QC
3120.0	12	251	1.00	15	15	620	635	61
3129.9	1781	288452	1.07	207	225	430	637	28572
3131.0	2008	351497	1.08	207	227	430	637	34175

CROSS-SECTION PROPERTIES FOR: HODGES CREEK FLOODWAY REVI SED
 SECID=B-TW AT DISTANCE= 708 FIRST
 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FLOODWAY REVISED 100

WS	A	K	ALPHA	B	P	LEW	REW	QC
3123.0	7	124	1.00	11	11	636	647	31
3132.9	2049	312163	1.10	254	270	400	654	31452
3135.0	2582	456437	1.11	254	275	400	654	44383

CROSS-SECTION PROPERTIES FOR: HODGES CREEK FLOODWAY REVI SED
 SECID=C-APP AT DISTANCE= 780 FIRST
 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FLOODWAY REVISED 100

WS	A	K	ALPHA	B	P	LEW	REW	QC
3124.0	11	220	1.00	14	14	216	230	53
3133.0	804	93118	1.06	100	116	175	275	12570

CROSS-SECTION PROPERTIES FOR: HODGES CREEK FLOODWAY REVI SED
 SECID=D AT DISTANCE= 924 FIRST
 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FLOODWAY REVISED 100

WS	A	K	ALPHA	B	P	LEW	REW	QC
3124.0	2	27	1.00	4	5	171	175	8
3133.9	820	88873	1.08	100	118	138	238	12806
3138.3	1260	174764	1.06	100	127	138	238	24580

CROSS-SECTION PROPERTIES FOR: HODGES CREEK FLOODWAY REVI SED
 SECID=E AT DISTANCE= 1136 FIRST
 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FLOODWAY REVISED 100

WS	A	K	ALPHA	B	P	LEW	REW	QC
3126.0	12	285	1.00	11	12	204	215	68
3135.9	860	102622	1.08	100	120	160	260	13730
3138.6	1130	157722	1.08	100	125	160	260	20742

PAGE 1 OF PROFILE NOTES FOR: HODGES CREEK FLOODWAY REVI SED FIRST
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

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

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

ALERTED USER

C-APP; WSU > BELMX (1) ;

CHECKED QBO (2)

WATER-SURFACE PROFILE FOR: HODGES CREEK FLOODWAY REVI SED FIRST
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FLOODWAY REVISED 100

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SECID AT DISTANCE/ LENGTH/DISCHARGE/ AREA /CONVEYANCE/ ALPHA/ LEW / REW
  WS ELEV /   HV /   HF /   HE /   EG /   V /   FN /   ACC *ID*
=====
A   AT   170 /   0 / 1210. /  746. / 67938. / 1.05 / 430. / 637.
    3124.90 / 0.04 /           / 3124.94 / 1.62 / 0.16/           *IS*
-----
R-TW AT   708 / 538 / 1210. / 279. / 10112. / 1.00 / 400. / 654.
    3125.93 / 0.29 / 1.15 / 0.13 / 3126.22 / 4.34 / 0.78 / 0.010 *XS*
-----
===== BEGIN BRIDGE ANALYSIS =====
BO-BC AT   708 /           / 689. / 93. / 3655. / 1.00 / 0. / 28.
    3126.70 / 0.84 / ...2... (-.001) / 7.37 / 0.71 /           *BO*
-----
EMBANKMENT OVERFLOW (CFS) / LEFT 515. / RIGHT 0. /           *RG*
-----
C-APP AT   780 / 72 / 1210. / 197. / 9180. / 1.02 / 175. / 275.
    3126.93 / 0.60 / 1.14 / 0.15 / 3127.53 / 6.13 / 0.67 / 0.017 *AS*
-----
M = **** / E = **** / K* = **** / 321. / 20403. / 1.03 / 175. / 275.
    3128.17 / 0.23 /           / 3128.40 / 3.76 / 0.43 /           *AS*
===== END BRIDGE ANALYSIS =====
D   AT   924 / 144 / 1210. / 306. / 17189. / 1.03 / 138. / 238.
    3128.76 / 0.25 / 0.60 / 0.01 / 3129.01 / 3.96 / 0.32 / 0.000 *XS*
-----
E   AT  1136 / 212 / 1210. / 266. / 14524. / 1.04 / 160. / 260.
    3129.97 / 0.34 / 1.24 / 0.04 / 3130.30 / 4.55 / 0.58 / 0.002 *XS*
=====
    
```

END OF THIS PROFILE

SUMMARY OF ENCROACHMENTS FOR: HODGES CREEK FLOODWAY REVI SED FIRST
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FLOODWAY REVISED 100 (PROFILE
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 1 OF 1

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
A	100	1	HOR	NO	YES	*****	1.00	*****	207
B-TW	200	0	HOR	NO	YES	*****	0.16	*****	254
BC-BC	300	2	N.A.	N.A.	N.A.	*****	0.93	*****	28
RD-BC	350	4	N.A.	N.A.	N.A.	*****	*****	*****	*****
C-APP	400	5	HOR	YES	YES	*****	-0.10	*****	100
D	500	0	HOR	YES	YES	*****	0.37	*****	100
E	600	0	HOR	YES	YES	*****	0.98	*****	100