



SUMMARY PRINTOUT FOR MULTIPLE PROFILES

10 YEAR FLOOD WATER SURF

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
400.00	400.00	0.0	0.0	211.20	800.00	219.09	145.59	219.29	331.02	0.0	0.0	3.95
3600.00	3200.00	0.0	0.0	234.40	700.00	240.73	50.61	241.30	163.14	0.0	0.0	7.43

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
400.000	800.000	219.089	0.0	0.0	0.0	331.020	0.0	400.000
3600.000	700.000	240.727	0.0	21.638	0.0	163.138	0.0	3200.000

DATA FOR LAST CROSS SECTION PROFILE

TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	18.151	0.0

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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 TRIB. GARDNER 7 BASIN 15  
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855  
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	3.	0.	0.	0.003000	0.0	0.0	0.	218.000	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
400.00	8.95	220.15	0.0	218.00	220.33	0.17	0.0	0.0	218.00
1600.	557.	846.	197.	408.	192.	159.	0.	0.	218.00
0.0	1.37	4.40	1.24	0.085	0.060	0.085	0.0	211.20	1411.13
0.003020	400.	400.	400.	0	0	4	0.0	431.35	1842.48

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3600.00	7.03	241.43	241.43	0.0	242.13	0.70	20.14	0.0	240.20
1450.	599.	650.	202.	167.	70.	60.	39.	22.	239.80
0.15	3.58	9.23	3.39	0.085	0.060	0.085	0.060	234.40	1046.82
0.024150	3200.	3200.	3200.	16	13	1	0.0	173.08	1219.90

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 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 TRIB. GARDNER 7 BASIN 15  
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Ø	WSEL	FR
	-10.	4.	0.	0.	0.003000	0.0	0.0	0.	220.000	0.0
J2	NPROF	IPLLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENUST
400.00	9.43	220.63	0.0	220.00	220.79	0.17	0.0	0.0	218.00
2100.	835.	938.	327.	529.	205.	236.	0.	0.	218.00
0.0	1.58	4.58	1.39	0.085	0.060	0.085	0.0	211.20	1399.60
0.002996	400.	400.	400.	0	0	5	0.0	458.89	1858.51

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENUST
3600.00	7.32	241.72	241.72	0.0	242.52	0.80	20.56	0.0	240.20
1900.	851.	756.	293.	201.	74.	73.	48.	23.	239.80
0.14	4.24	10.16	4.02	0.085	0.060	0.085	0.060	234.40	1045.08
0.027110	3200.	3200.	3200.	15	13	1	0.0	176.34	1221.41

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 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 TRIB. GARDNER 7 BASIN 15  
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.003000	0.0	0.0	0.	222.000	0.0

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	VALDC	IBW	CHNIM	ITRACE
	4.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCMV= 0.100 CEHV= 0.300

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOP5	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENUST

400.00	10.71	221.91	0.0	222.00	222.08	0.17	0.0	0.0	218.00
4000.	1884.	1228.	888.	875.	239.	468.	0.	0.	218.00
0.0	2.15	5.13	1.90	0.085	0.060	0.085	0.0	211.20	1388.39
0.003056	400.	400.	400.	0	0	3	0.0	495.67	1884.05

5501 HV CHANGED MORE THAN HVINS

3600.00	8.39	242.79	242.53	0.0	243.80	1.01	21.47	0.25	240.20
3700.	1936.	1063.	701.	327.	89.	125.	78.	25.	239.80
0.12	5.92	11.90	5.61	0.085	0.060	0.085	0.060	234.40	1038.70
0.029203	3200.	3200.	3200.	18	13	1	0.0	168.25	1226.95

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T1 TRIB. GARDNER 7 BASIN 15  
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855  
 T3 100 YEAR FLOODWAY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	0.0	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300  
 2800 NAT Q1= 145.59 WSEL= 219.09 ENC Q1= 151.58 WSEL= 220.09 RATIO= -0.0411  
 NAT Q1= 280. RATIOS LOB,CH,ROB= 0.3397 0.5421 0.1182 WSEL= 220.09  
 2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED  
 3280 CROSS SECTION 400.00 EXTENDED 49870.09 FEET

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDUST

3470 ENCROACHMENT STATIONS= 1663.0 1690.0 TYPE= 4 TARGET= 0.458  
 400.00 49894.39 50105.59 0.0 219.09 50105.59 0.00 0.0 0.0 218.00  
 2100. 0. 2100. 0. 18. 1347098. 49. 0. 0. 218.00  
 0.0 0.00 0.00 0.00 0.065 0.060 0.085 0.0 211.20 1663.00  
 0.000000 400. 400. 400. 0 0 1 0.0 27.00 1690.00

2800 NAT Q1= 50.61 WSEL= 240.73 ENC Q1= 50.61 WSEL= 241.73 RATIO= 0.0  
 NAT Q1= 116. RATIOS LOB,CH,ROB= 0.4487 0.3969 0.1544 WSEL= 241.73  
 3280 CROSS SECTION 3600.00 EXTENDED 49848.39 FEET

3470 ENCROACHMENT STATIONS= 1149.4 1175.0 TYPE= 4 TARGET= 0.563  
 3600.00 49871.19 50105.59 0.0 240.73 50105.59 0.00 0.00 0.00 240.20  
 1900. 791. 1109. 0. 577355. 690168. 49. 96336. 2. 239.80  
 593.64 0.00 0.00 0.00 0.085 0.060 0.085 0.060 234.40 1149.42  
 0.000000 3200. 3200. 3200. 18 0 1 0.0 25.58 1175.00

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOODWAY

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH	
	400.00	400.00	0.0	0.0	211.20	800.00	219.09	145.59	219.29	331.02	0.0	0.0	3.95
A	400.00	400.00	0.0	0.0	211.20	1600.00	220.15	291.14	220.33	431.35	0.0	0.0	4.40
	400.00	400.00	0.0	0.0	211.20	2100.00	220.63	383.64	220.79	458.89	0.0	0.0	4.58
	400.00	400.00	0.0	0.0	211.20	4000.00	221.91	723.52	222.08	495.67	0.0	0.0	5.13
	400.00	400.00	0.0	0.0	211.20	2100.00	50105.59	*****	50105.59	27.00	1663.00	1690.00	0.00
	3600.00	3200.00	0.0	0.0	234.40	700.00	240.73	50.61	241.30	163.14	0.0	0.0	7.43
B	3600.00	3200.00	0.0	0.0	234.40	1450.00	241.43	93.31	242.13	173.08	0.0	0.0	9.23
	3600.00	3200.00	0.0	0.0	234.40	1900.00	241.72	115.39	242.52	176.34	0.0	0.0	10.16
	3600.00	3200.00	0.0	0.0	234.40	3700.00	242.79	216.51	243.80	188.25	0.0	0.0	11.90
	3600.00	3200.00	0.0	0.0	234.40	1900.00	50105.59	*****	50105.59	25.58	1149.42	1175.00	0.00

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
400.000	800.000	219.089	0.0	0.0	0.0	331.020	0.0	400.000
400.000	1600.000	220.155	1.066	0.0	0.0	431.349	-100.329	400.000
400.000	2100.000	220.625	0.471	0.0	0.0	458.892	-127.872	400.000
400.000	4000.000	221.906	1.281	0.0	0.0	495.666	-164.646	400.000
400.000	2100.000	50105.590	49883.680	0.0	0.0	27.002	304.018	400.000
3600.000	700.000	240.727	0.0	21.638	0.0	163.138	0.0	3200.000
3600.000	1450.000	241.430	0.703	21.276	0.0	173.081	-9.943	3200.000
3600.000	1900.000	241.721	0.290	21.095	0.0	176.335	-13.198	3200.000
3600.000	3700.000	242.791	1.070	20.885	0.0	188.250	-25.112	3200.000
3600.000	1900.000	50105.590	49862.790	0.0	0.0	25.580	137.558	3200.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	18.151	0.0
2	0.0	0.0	22.201	4.050
3	0.0	0.0	23.333	5.182
4	0.0	0.0	25.121	6.970
5	4.000	0.563	1.931	-16.220





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 HEC2 VERSION UPDATED JAN 1975  
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08  
 MODIFICATIONS 52,53,54,55,56,57,58  
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T1 TRIB. GARDNER 7 BASIN 15  
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855  
 T3 100 YEAR FLOODWAY

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	221.630	0.0

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHN1M	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300  
 2800 NAT Q1= 383.64 WSEL= 220.63 ENC Q1= 383.64 WSEL= 221.63 RATIO= 0.0

NAT Q1= 639. RATIOS LOR,CH,ROB= 0.4603 0.3296 0.2101 WSEL= 221.63										
SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

3470 ENCROACHMENT STATIONS= 1533.8 1694.6 TYPE= 4 TARGET= 0.400										
400.00	10.43	221.63	0.0	220.63	221.87	0.24	0.0	0.0	218.00	
2100.	914.	1149.	37.	430.	232.	17.	0.	0.	218.00	
0.0	2.13	4.96	2.23	0.085	0.060	0.085	0.0	211.20	1533.79	
0.002974	400.	400.	400.	0	0	1	0.0	160.86	1694.64	

2800 NAT Q1= 115.39 WSEL= 241.72 ENC Q1= 115.39 WSEL= 242.72 RATIO= 0.0  
 NAT Q1= 210. RATIOS LOR,CH,ROB= 0.5204 0.2917 0.1879 WSEL= 242.72

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CRISW	WSELK	EG	HV	HL	OLOSS	BANK	ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA	
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST	

3470 ENCROACHMENT STATIONS= 1104.7 1175.0 TYPE= 4 TARGET= 0.450										
3600.00	8.26	242.66	242.66	241.72	244.03	1.36	20.69	0.0	240.20	
1900.	881.	1019.	0.	153.	88.	0.	34.	8.	239.80	
0.10	5.76	11.62	0.03	0.085	0.060	0.085	0.060	234.40	1104.66	
0.028571	3200.	3200.	3200.	6	14	1	0.0	70.34	1175.00	

SUMMARY PRINTOUT FOR MULTIPLE PROFILES													
100 YEAR FLOODWAY													
SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH	
	400.00	400.00	0.0	0.0	211.20	2100.00	220.63	383.64	220.79	458.89	0.0	0.0	4.58
	400.00	400.00	0.0	0.0	211.20	2100.00	221.63	385.09	221.87	160.86	1533.79	1694.65	4.96
	3600.00	3200.00	0.0	0.0	234.40	1900.00	241.72	115.39	242.52	176.34	0.0	0.0	10.16
	3600.00	3200.00	0.0	0.0	234.40	1900.00	242.66	112.41	244.03	70.34	1104.66	1175.00	11.62
SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH					
A	400.000	2100.000	220.625	0.0	0.0	458.892	0.0	400.000					
	400.000	2100.000	221.630	1.004	0.0	160.858	298.034	400.000					
B	3600.000	1900.000	241.721	0.0	21.095	176.335	0.0	3200.000					
	3600.000	1900.000	242.664	0.943	21.034	70.337	105.999	3200.000					
DATA FOR LAST CROSS SECTION													
PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF									
1	0.0	0.0	23.333	0.0									
2	4.000	0.450	8.492	-14.840									