
 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 TRIBUTARY 2 BASIN 12
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FR
	-1.	2.	0.	0.	0.004000	0.0	0.0	0.	206.000	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-1.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	0.0	0.0	0.0
NC	0.085	0.085	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	190.000	810.000	1160.000	2500.000	1160.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	10.400	0.0	0.0	0.0	0.0
X1	450.000	9.000	515.000	525.000	450.000	450.000	450.000	0.0	0.0	0.0
GR	230.000	0.0	220.000	300.000	210.000	450.000	202.000	515.000	200.000	520.000
GR	202.000	525.000	210.000	610.000	220.000	720.000	230.000	1200.000	0.0	0.0
X1	1200.000	12.000	1073.000	1088.000	750.000	750.000	750.000	0.0	0.0	0.0
GR	218.900	1000.000	205.100	1065.000	205.700	1073.000	202.900	1076.000	202.600	1079.000
GR	202.900	1082.000	202.900	1084.000	205.600	1088.000	205.100	1100.000	206.200	1150.000
GR	209.600	1200.000	213.400	1300.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	3600.000	19.000	1250.000	1267.000	2400.000	2400.000	2400.000	0.0	0.0	0.0
GR	242.300	1000.000	240.600	1025.000	237.400	1031.000	233.100	1065.000	231.200	1072.000
GR	224.900	1092.000	227.700	1100.000	226.600	1106.000	226.400	1108.000	226.400	1110.000
GR	227.300	1111.000	232.200	1200.000	237.700	1250.000	229.200	1256.000	229.100	1257.000
GR	229.200	1258.000	237.800	1267.000	238.700	1300.000	243.600	1380.000	0.0	0.0
X1	5200.000	21.000	1575.000	1598.000	1600.000	1600.000	1600.000	0.0	0.0	0.0
GR	260.400	1159.000	259.800	1166.000	253.100	1174.000	252.300	1177.000	253.100	1180.000
GR	258.400	1200.000	258.700	1220.000	247.000	1300.000	244.700	1319.000	245.300	1366.000
GR	243.200	1378.000	245.500	1389.000	247.000	1400.000	256.800	1500.000	259.300	1575.000
GR	248.100	1580.000	247.100	1584.000	248.100	1588.000	259.500	1598.000	259.500	1600.000
GR	262.200	1650.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	5300.000	16.000	1100.000	1552.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	264.800	1000.000	258.800	1100.000	253.000	1111.000	251.700	1113.000	253.000	1115.000
GR	258.000	1123.000	258.400	1200.000	257.900	1300.000	258.100	1400.000	259.000	1500.000
GR	259.100	1520.000	249.200	1528.000	248.400	1531.000	249.100	1534.000	259.400	1552.000
GR	261.800	1600.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	5330.000	15.000	1220.000	1575.000	30.000	30.000	30.000	0.0	0.0	0.0
GR	260.400	1159.000	259.800	1166.000	258.400	1200.000	258.700	1220.000	247.000	1300.000
GR	244.700	1319.000	245.300	1366.000	243.200	1378.000	245.500	1389.000	247.000	1400.000
GR	256.800	1500.000	259.300	1575.000	259.500	1598.000	259.500	1600.000	262.200	1650.000
X1	7830.000	18.000	1157.000	1165.000	2500.000	2500.000	2500.000	0.0	-1.400	0.0

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 GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
450.00	450.00	0.0	0.0	200.00	190.00	204.46	30.03	204.58	56.15	0.0	0.0	3.41
1200.00	750.00	0.0	0.0	202.60	190.00	206.70	40.64	206.76	100.14	0.0	0.0	2.33
3600.00	2400.00	0.0	0.0	226.40	190.00	228.55	6.54	229.03	36.87	0.0	0.0	0.0
5200.00	1600.00	0.0	0.0	243.20	190.00	246.39	29.96	246.42	90.49	0.0	0.0	0.0
5300.00	100.00	0.0	0.0	248.40	190.00	251.53	8.42	252.51	12.13	0.0	0.0	7.95
5330.00	30.00	0.0	0.0	243.20	190.00	252.61	750.79	252.61	195.63	0.0	0.0	0.19
7830.00	2500.00	0.0	0.0	266.00	190.00	268.70	12.96	268.97	106.56	0.0	0.0	5.57
7880.00	50.00	0.0	0.0	266.10	190.00	270.06	6.36	271.15	7.00	0.0	0.0	8.38
7922.00	42.00	273.70	270.50	266.10	190.00	271.78	10.52	272.25	7.00	0.0	0.0	5.47
7972.00	50.00	0.0	0.0	266.30	190.00	273.21	13.52	273.51	7.00	0.0	0.0	4.39

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
450.000	190.000	204.461	0.0	0.0	0.0	56.151	0.0	450.000
1200.000	190.000	206.703	0.0	2.242	0.0	100.144	0.0	750.000
3600.000	190.000	228.554	0.0	21.850	0.0	36.873	0.0	2400.000
5200.000	190.000	246.389	0.0	17.835	0.0	90.489	0.0	1600.000
5300.000	190.000	251.530	0.0	5.141	0.0	12.130	0.0	100.000
5330.000	190.000	252.611	0.0	1.081	0.0	195.625	0.0	30.000
7830.000	190.000	268.702	0.0	16.091	0.0	106.565	0.0	2500.000
7880.000	190.000	270.060	0.0	1.357	0.0	7.000	0.0	50.000
7922.000	190.000	271.783	0.0	1.724	0.0	7.000	0.0	42.000
7972.000	190.000	273.215	0.0	1.431	0.0	7.000	0.0	50.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	16.400	0.0

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T1 TRIBUTARY 2 BASIN 12
 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.	0.004000	0.0	0.0	0.	208.000	0.0
J2	NPROF	IPL0T	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	CRIWS	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

450.00	7.11	207.11	0.0	208.00	207.30	0.19	0.0	0.0	202.00
810.	219.	305.	287.	106.	61.	139.	0.	0.	202.00
0.0	2.06	4.99	2.06	0.085	0.060	0.085	0.0	200.00	473.45
0.004002	450.	450.	450.	0	0	5	0.0	105.89	579.34
1200.00	6.57	209.17	0.0	0.0	209.24	0.07	1.93	0.01	205.70
810.	100.	263.	447.	69.	85.	287.	6.	2.	205.60
0.10	1.44	3.08	1.56	0.085	0.060	0.085	0.060	202.60	1045.83
0.001795	750.	750.	750.	3	0	1	0.0	147.86	1193.69

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

5720 ASSUMED CRITICAL DEPTH

3265 DIVIDED FLOW

SECNO	DEPTH	CWSEL	CRIWS	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	3.62	230.02	230.02	0.0	230.81	0.78	12.92	0.0	237.70
810.	799.	11.	0.	112.	2.	0.	22.	8.	257.80
0.20	7.14	4.58	0.0	0.085	0.060	0.085	0.060	226.40	1090.09

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T1 TRIBUTARY 2 BASIN 12
 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	Q	WSEL	FG
	-10.	4.	0.	0.	0.004000	0.0	0.0	0.	209.000	0.0

J2	NPROF	IPLT	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	ENDST

450.00	8.03	208.03	0.0	209.00	208.23	0.21	0.0	0.0	202.00
1160.	337.	382.	441.	148.	70.	193.	0.	0.	202.00
0.0	2.28	5.44	2.29	0.085	0.060	0.085	0.0	200.00	466.03
0.003952	450.	450.	450.	0	0	4	0.0	123.01	589.04

1200.00	7.45	210.05	0.0	0.0	210.13	0.08	1.89	0.01	205.70
1160.	152.	330.	679.	95.	99.	387.	9.	3.	205.60
0.10	1.60	3.34	1.75	0.085	0.060	0.085	0.060	202.60	1041.68
0.001744	750.	750.	750.	3	0	1	0.0	170.22	1211.90

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3/20 ASSUMED CRITICAL DEPTH

3265 DIVIDED FLOW

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	4.13	230.53	230.53	0.0	231.39	0.86	12.51	0.0	237.70
1160.	1136.	24.	0.	152.	4.	0.	29.	10.	237.80
0.18	7.50	5.55	0.0	0.085	0.060	0.085	0.060	226.40	1082.38

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T1 TRIBUTARY 2 BASIN 12
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6655
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.004000	0.0	0.0	0.	211.000	0.0

J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALDLC	IBW	CHN1M	ITRACE
	4.000	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

450.00	10.31	210.31	0.0	211.00	210.57	0.27	0.0	0.0	202.00
2500.	816.	614.	1070.	281.	93.	367.	0.	0.	202.00
0.0	2.91	6.60	2.92	0.085	0.060	0.085	0.0	200.00	445.37
0.004001	450.	450.	450.	0	0	5	0.0	168.03	613.40

1200.00	9.75	212.35	0.0	0.0	212.46	0.71	1.87	0.02	205.70
2500.	354.	538.	1607.	180.	133.	742.	15.	4.	205.60
0.08	1.97	4.04	2.17	0.085	0.060	0.085	0.060	202.60	1030.83
0.001708	750.	750.	750.	3	0	1	0.0	241.65	1272.48

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

3265 DIVIDED FLOW

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	5.32	231.72	231.72	0.0	232.89	1.16	12.26	0.0	237.70
2500.	2420.	80.	0.	278.	11.	0.	52.	14.	237.80
0.16	8.69	7.49	0.0	0.085	0.060	0.085	0.060	226.40	1070.08

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T1 TRIBUTARY 2 BASIN 12
 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	FG
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	0.0	0.0
J2	NPROF	IPLT	PREVS	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= 30.03 WSEL= 204.46 ENC Q1= 30.03 WSEL= 205.46 RATIO= 0.0
 NAT Q1= 57. RATIOS LOB,CH,ROB= 0.2153 0.5027 0.2821 WSEL= 205.46
 2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
 3280 CROSS SECTION 450.00 EXTENDED 49870.00 FEET

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	LOSS	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	IUC	ICONT	CORAR	TOPWID	ENDST

3470 ENCKOACHMENT STATIONS= 515.0 528.5 TYPE= 4 TARGET= 0.470
 450.00 49900.00 50100.00 0.0 204.46 50100.00 0.00 0.0 0.0 202.00
 1160. 0. 921. 239. 30. 498990. 175495. 0. 0. 202.00
 0.0 0.00 0.00 0.00 0.085 0.060 0.085 0.0 200.00 515.00
 0.000000 450. 450. 450. 0 0 1 0.0 13.52 528.52

2800 NAT Q1= 40.64 WSEL= 206.70 ENC Q1= 40.64 WSEL= 207.70 RATIO= 0.0
 NAT Q1= 87. RATIOS LOB,CH,ROB= 0.1024 0.4353 0.4623 WSEL= 207.70
 3685 20 TRIALS USED WSEL,CWSEL
 3280 CROSS SECTION 1200.00 EXTENDED 49886.60 FEET

3470 ENCKOACHMENT STATIONS= 1073.0 1091.9 TYPE= 4 TARGET= 0.532
 1200.00 49897.40 50100.00 0.0 206.70 50100.00 0.00 0.00 0.00 205.70
 1160. 0. 966. 194. 30. 748447. 196703. 13944. 0. 205.60
 168.07 0.00 0.00 0.00 0.085 0.060 0.085 0.060 202.60 1073.00
 0.000000 750. 750. 750. 21 0 1 0.0 18.94 1091.94

2800 NAT Q1= 6.54 WSEL= 228.55 ENC Q1= 6.54 WSEL= 229.55 RATIO= 0.0
 NAT Q1= 20. RATIOS LOB,CH,ROB= 0.9947 0.0053 0.0 WSEL= 229.55
 3280 CROSS SECTION 3600.00 EXTENDED 49857.70 FEET

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOODWAY

Sta. No.

Stream Bed

W.S. profiles

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	
	450.00	450.00	0.0	0.0	200.00	190.00	204.46	30.03	204.58	56.15	0.0	0.0	3.41
	450.00	450.00	0.0	0.0	200.00	810.00	207.11	128.05	207.30	105.89	0.0	0.0	4.99
	450.00	450.00	0.0	0.0	200.00	1160.00	208.03	184.52	208.23	123.01	0.0	0.0	5.44
	450.00	450.00	0.0	0.0	200.00	2500.00	210.31	395.21	210.57	168.03	0.0	0.0	6.60
	450.00	450.00	0.0	0.0	200.00	1160.00	50100.00*****	50100.00	13.52	515.00	528.52	0.00	
	1200.00	750.00	0.0	0.0	202.60	190.00	206.70	40.64	206.76	100.14	0.0	0.0	2.53
	1200.00	750.00	0.0	0.0	202.60	810.00	209.17	191.19	209.24	147.86	0.0	0.0	3.08
	1200.00	750.00	0.0	0.0	202.60	1160.00	210.05	277.74	210.13	170.22	0.0	0.0	3.54
	1200.00	750.00	0.0	0.0	202.60	2500.00	212.35	604.94	212.46	241.65	0.0	0.0	4.04
	1200.00	750.00	0.0	0.0	202.60	1160.00	50100.00*****	50100.00	18.94	1073.00	1091.94	0.00	
	3600.00	2400.00	0.0	0.0	226.40	190.00	228.55	6.54	229.03	36.87	0.0	0.0	0.0
A	3600.00	2400.00	0.0	0.0	226.40	810.00	230.02	29.62	230.81	75.83	0.0	0.0	4.58
	3600.00	2400.00	0.0	0.0	226.40	1160.00	230.53	43.62	231.39	91.53	0.0	0.0	5.55
	3600.00	2400.00	0.0	0.0	226.40	2500.00	231.72	94.65	232.89	127.66	0.0	0.0	7.49
	3600.00	2400.00	0.0	0.0	226.40	1160.00	50100.00*****	50100.00	145.27	1121.73	1267.00	0.00	
	5200.00	1600.00	0.0	0.0	243.20	190.00	246.39	29.96	246.42	90.49	0.0	0.0	0.0
B	5200.00	1600.00	0.0	0.0	243.20	810.00	248.32	125.15	248.41	130.69	0.0	0.0	1.21
	5200.00	1600.00	0.0	0.0	243.20	1160.00	248.99	177.33	249.11	143.34	0.0	0.0	1.76
	5200.00	1600.00	0.0	0.0	243.20	2500.00	250.92	375.25	251.10	178.57	0.0	0.0	2.71
	5200.00	1600.00	0.0	0.0	243.20	1160.00	50100.00*****	50100.00	233.95	1364.05	1598.00	0.00	
	5300.00	100.00	0.0	0.0	248.40	190.00	251.53	8.42	252.51	12.13	0.0	0.0	7.95
	5300.00	100.00	0.0	0.0	248.40	810.00	254.47	36.85	255.95	28.79	0.0	0.0	9.77
	5300.00	100.00	0.0	0.0	248.40	1160.00	255.38	53.73	257.06	34.29	0.0	0.0	10.40
	5300.00	100.00	0.0	0.0	248.40	2500.00	258.85	139.59	259.23	415.29	0.0	0.0	4.96
	5300.00	100.00	0.0	0.0	248.40	1160.00	50100.00*****	50100.00	452.00	1100.00	1552.00	0.00	
	5330.00	30.00	0.0	0.0	243.20	190.00	252.61	750.79	252.61	195.63	0.0	0.0	0.19
C	5330.00	30.00	0.0	0.0	243.20	810.00	256.10	1635.98	256.10	255.11	0.0	0.0	0.45
	5330.00	30.00	0.0	0.0	243.20	1160.00	257.23	1973.84	257.23	282.69	0.0	0.0	0.55
	5330.00	30.00	0.0	0.0	243.20	2500.00	259.27	2671.79	259.28	395.15	0.0	0.0	0.91
	5330.00	30.00	0.0	0.0	243.20	1160.00	50100.00*****	50100.00	355.00	1220.00	1575.00	0.00	
	7830.00	2500.00	0.0	0.0	266.00	190.00	268.70	12.96	268.97	406.56	0.0	0.0	5.57
D	7830.00	2500.00	0.0	0.0	266.00	810.00	269.52	41.65	270.05	149.64	0.0	0.0	9.15
	7830.00	2500.00	0.0	0.0	266.00	1160.00	269.83	57.67	270.44	167.64	0.0	0.0	10.10
	7830.00	2500.00	0.0	0.0	266.00	2500.00	270.64	116.31	271.52	212.42	0.0	0.0	12.50
	7830.00	2500.00	0.0	0.0	266.00	1160.00	50100.00*****	50100.00	9.15	1155.85	1165.00	0.00	
	7880.00	50.00	0.0	0.0	266.10	190.00	270.06	6.36	271.15	7.00	0.0	0.0	8.38
	7880.00	50.00	0.0	0.0	266.10	810.00	274.88	37.58	275.32	196.03	0.0	0.0	6.95
	7880.00	50.00	0.0	0.0	266.10	1160.00	275.07	47.45	275.63	209.63	0.0	0.0	8.04
	7880.00	50.00	0.0	0.0	266.10	2500.00	275.74	94.84	276.49	254.10	0.0	0.0	9.22
	7880.00	50.00	0.0	0.0	266.10	1160.00	50100.00*****	50100.00	8.50	1673.50	1682.00	0.00	

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
7922.00	42.00	0.0	0.0	266.10	190.00	271.78	10.52	272.25	7.00	0.0	0.0	5.47
7922.00	42.00	0.0	0.0	266.10	810.00	275.32	62.72	275.48	227.12	0.0	0.0	4.35
7922.00	42.00	0.0	0.0	266.10	1160.00	275.65	87.21	275.83	248.27	0.0	0.0	4.62
7922.00	42.00	0.0	0.0	266.10	2500.00	276.63	191.04	276.88	311.52	0.0	0.0	4.93
7922.00	42.00	0.0	0.0	266.10	1160.00	50101.72*****	50101.72		8.50	1673.50	1682.00	0.00
7972.00	50.00	0.0	0.0	266.30	190.00	273.21	13.52	273.51	7.00	0.0	0.0	4.39
E 7972.00	50.00	0.0	0.0	266.30	810.00	275.94	94.70	276.02	253.99	0.0	0.0	2.99
7972.00	50.00	0.0	0.0	266.30	1160.00	276.31	130.47	276.41	278.18	0.0	0.0	3.21
7972.00	50.00	0.0	0.0	266.30	2500.00	277.34	263.60	277.50	343.81	0.0	0.0	3.72
7972.00	50.00	0.0	0.0	266.30	1160.00	50101.72*****	50101.72		8.50	1673.50	1682.00	0.00
SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH				
450.000	190.000	204.461	0.0	0.0	0.0	56.151	0.0	450.000				
450.000	810.000	207.114	2.653	0.0	0.0	105.891	-49.741	450.000				
450.000	1160.000	208.027	0.913	0.0	0.0	123.008	-66.857	450.000				
450.000	2500.000	210.309	2.282	0.0	0.0	168.025	-111.875	450.000				
450.000	1160.000	50100.000	49889.690	0.0	0.0	13.518	42.632	450.000				
1200.000	190.000	206.703	0.0	2.242	0.0	100.144	0.0	750.000				
1200.000	810.000	209.171	2.467	2.056	0.0	147.863	-47.719	750.000				
1200.000	1160.000	210.052	0.881	2.024	0.0	170.221	-70.077	750.000				
1200.000	2500.000	212.354	2.302	2.045	0.0	241.651	-141.507	750.000				
1200.000	1160.000	50100.000	49887.640	0.0	0.0	18.944	81.200	750.000				
3600.000	190.000	228.554	0.0	21.850	0.0	36.873	0.0	2400.000				
3600.000	810.000	230.024	1.471	20.854	0.0	73.832	-36.959	2400.000				
3600.000	1160.000	230.525	0.501	20.474	0.0	91.533	-54.659	2400.000				
3600.000	2500.000	231.722	1.197	19.368	0.0	127.664	-90.791	2400.000				
3600.000	1160.000	50100.000	49868.270	0.0	0.0	145.273	-108.400	2400.000				
5200.000	190.000	246.389	0.0	17.835	0.0	90.489	0.0	1600.000				
5200.000	810.000	248.318	1.929	18.294	0.0	130.689	-40.200	1600.000				
5200.000	1160.000	248.994	0.677	18.469	0.0	143.343	-52.854	1600.000				
5200.000	2500.000	250.923	1.929	19.201	0.0	178.573	-88.084	1600.000				
5200.000	1160.000	50100.000	49849.070	0.0	0.0	233.952	-143.463	1600.000				
5300.000	190.000	251.530	0.0	5.141	0.0	12.130	0.0	100.000				
5300.000	810.000	254.472	2.942	6.154	0.0	28.794	-16.664	100.000				
5300.000	1160.000	255.380	0.909	6.386	0.0	34.294	-22.164	100.000				
5300.000	2500.000	258.852	3.472	7.929	0.0	415.286	-403.156	100.000				
5300.000	1160.000	50100.000	49841.140	0.0	0.0	452.002	-439.872	100.000				
5330.000	190.000	252.611	0.0	1.081	0.0	195.625	0.0	30.000				
5330.000	810.000	256.102	3.491	1.630	0.0	255.112	-59.487	30.000				
5330.000	1160.000	257.225	1.124	1.845	0.0	282.692	-87.067	30.000				
5330.000	2500.000	259.268	2.043	0.416	0.0	395.146	-199.521	30.000				
5330.000	1160.000	50100.000	49840.730	0.0	0.0	355.002	-159.377	30.000				
7830.000	190.000	268.702	0.0	16.091	0.0	106.565	0.0	2500.000				
7830.000	810.000	269.521	0.819	13.420	0.0	149.642	-43.077	2500.000				
7830.000	1160.000	269.830	0.308	12.604	0.0	167.638	-61.073	2500.000				
7830.000	2500.000	270.642	0.813	11.374	0.0	212.420	-105.855	2500.000				
7830.000	1160.000	50100.000	49829.350	0.0	0.0	9.146	97.418	2500.000				
7880.000	190.000	270.060	0.0	1.357	0.0	7.000	0.0	50.000				
7880.000	810.000	274.878	4.818	5.356	0.0	196.027	-189.027	50.000				

7880.000	1160.000	275.072	0.194	5.242	0.0	209.626	-202.626	50.000
7880.000	2500.000	275.742	0.670	5.100	0.0	254.095	-247.095	50.000
7880.000	1160.000	50100.000	49824.250	0.0	0.0	8.502	-1.502	50.000
7922.000	190.000	271.783	0.0	1.724	0.0	7.000	0.0	42.000
7922.000	810.000	275.318	3.534	0.440	0.0	227.118	-220.118	42.000
7922.000	1160.000	275.647	0.329	0.575	0.0	248.265	-241.265	42.000
7922.000	2500.000	276.629	0.983	0.887	0.0	311.523	-304.523	42.000
7922.000	1160.000	50101.719	49825.090	1.720	0.0	8.502	-1.502	42.000
7972.000	190.000	273.215	0.0	1.431	0.0	7.000	0.0	50.000
7972.000	810.000	275.938	2.723	0.620	0.0	253.986	-246.986	50.000
7972.000	1160.000	276.312	0.374	0.665	0.0	278.181	-271.181	50.000
7972.000	2500.000	277.339	1.028	0.710	0.0	343.814	-336.814	50.000
7972.000	1160.000	50101.719	49824.380	0.0	0.0	8.502	-1.502	50.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	16.40	0.0
2	0.0	0.0	24.622	8.222
3	0.0	0.0	28.024	11.624
4	0.0	0.0	38.637	22.237
5	4.000	0.032	23.311	6.911

 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 TRIBUTARY 2 BASIN 12
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0.	4.	0.	0.	0.004000	0.0	0.0	0.	209.000	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	WALLDC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	0.0	0.0	0.0
NC	0.085	0.085	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	190.000	810.000	1160.000	2500.000	1160.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-8.400	0.0	0.0	0.0	0.0
X1	450.000	9.000	515.000	525.000	450.000	450.000	450.000	0.0	0.0	0.0
GR	230.000	0.0	220.000	300.000	210.000	450.000	202.000	515.000	200.000	520.000
GR	202.000	525.000	210.000	610.000	220.000	720.000	230.000	1200.000	0.0	0.0
X1	1200.000	12.000	1073.000	1088.000	750.000	750.000	750.000	0.0	0.0	0.0
GR	218.900	1000.000	205.100	1065.000	205.700	1073.000	202.900	1076.000	202.600	1079.000
GR	202.900	1082.000	202.900	1084.000	205.600	1088.000	205.100	1100.000	206.200	1150.000
GR	209.600	1200.000	213.400	1300.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	3600.000	19.000	1250.000	1267.000	2400.000	2400.000	2400.000	0.0	0.0	0.0
GR	242.300	1000.000	240.600	1025.000	237.400	1031.000	233.100	1065.000	231.200	1072.000
GR	229.900	1092.000	227.700	1100.000	226.600	1106.000	226.400	1108.000	226.400	1110.000
GR	227.300	1111.000	232.200	1200.000	237.700	1250.000	229.200	1256.000	229.100	1257.000
GR	229.200	1258.000	237.800	1267.000	238.700	1300.000	243.600	1380.000	0.0	0.0
X1	5200.000	21.000	1575.000	1598.000	1600.000	1600.000	1600.000	0.0	0.0	0.0
GR	260.400	1159.000	259.800	1166.000	253.100	1174.000	252.300	1177.000	253.100	1180.000
GR	258.400	1200.000	258.700	1220.000	247.000	1300.000	244.700	1319.000	245.300	1366.000
GR	243.200	1378.000	245.500	1389.000	247.000	1400.000	256.800	1500.000	259.300	1575.000
GR	248.100	1580.000	247.100	1584.000	248.100	1588.000	259.500	1598.000	259.500	1600.000
GR	252.200	1650.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	5300.000	16.000	1100.000	1552.000	100.000	100.000	100.000	0.0	0.0	0.0
GR	264.800	1000.000	258.800	1100.000	253.000	1111.000	251.700	1113.000	253.000	1115.000
GR	258.000	1123.000	258.400	1200.000	257.900	1300.000	258.100	1400.000	259.000	1500.000
GR	259.100	1520.000	249.200	1528.000	244.400	1531.000	249.100	1534.000	259.400	1552.000
GR	261.800	1600.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	5330.000	15.000	1220.000	1575.000	30.000	30.000	30.000	0.0	0.0	0.0
GR	260.400	1159.000	259.800	1166.000	258.400	1200.000	258.700	1220.000	247.000	1300.000
GR	244.700	1319.000	245.300	1366.000	243.200	1378.000	245.500	1389.000	247.000	1400.000
GR	256.800	1500.000	259.300	1575.000	259.500	1598.000	259.500	1600.000	262.200	1650.000

X1	7830.000	18.000	1157.000	1165.000	2500.000	2500.000	2500.000	0.0	1.400	0.0
GR	284.100	1000.000	281.100	1037.000	277.600	1050.000	271.900	1069.000	269.900	1100.000
GR	269.300	1150.000	269.200	1157.000	267.700	1158.000	(267.400)	1160.000	267.600	1162.000
GR	269.000	1165.000	270.000	1200.000	270.600	1220.000	271.300	1250.000	272.500	1300.000
GR	274.800	1350.000	279.500	1400.000	284.000	1435.000	0.0	0.0	0.0	0.0
X1	7880.000	28.000	1673.500	1682.000	50.000	50.000	50.000	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GR	290.900	1000.000	289.200	1200.000	289.000	1300.000	286.300	1400.000	282.100	1500.000
GR	277.100	1600.000	275.300	1650.000	274.600	1673.500	267.600	1673.500	266.500	1674.000
GR	266.100	1675.000	266.500	1676.000	267.600	1676.500	274.600	1676.500	274.500	1678.000
GR	269.500	1678.000	267.200	1678.500	266.800	1679.000	266.500	1680.000	266.800	1681.000
GR	267.200	1681.500	268.500	1682.000	274.500	1682.000	274.200	1700.000	273.700	1750.000
GR	274.600	1850.000	278.700	2000.000	288.500	2150.000	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	7.000	0.001	19.600	0.0	0.0	0.0
X1	7922.000	0.0	0.0	0.0	42.000	42.000	42.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	270.500	273.700	0.0	0.0	0.0	0.0	0.0
X3	10.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BT	21.000	1000.000	290.900	0.0	1300.000	289.000	0.0	1450.000	285.500	0.0
BT	1650.000	275.300	0.0	1673.500	274.600	267.600	1674.000	274.600	268.700	1675.000
BT	274.600	269.100	1676.000	274.600	268.700	1676.500	274.600	267.600	1678.000	274.500
BT	268.500	1678.500	274.500	269.800	1679.000	274.500	270.200	1680.000	274.500	270.500
BT	1681.000	274.500	270.200	1681.500	274.500	269.800	1682.000	274.500	268.500	1700.000
BT	274.200	0.0	1750.000	273.700	0.0	1850.000	274.600	0.0	2000.000	278.700
BT	0.0	2150.000	288.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	7972.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.200	0.0
EJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1675.00

 HEC2 VERSION UPDATED JAN 1975
 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
 MODIFICATIONS 52,53,54,55,56,57,58

T1 TRIBUTARY 2 BASIN 12
 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.	209.030	0.0
J2	NPROF	IPL0T	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= 184.52 WSEL= 208.03 ENC Q1= 184.52 WSEL= 208.83 RATIO= 0.0
 NAT Q1= 245. RATIOS LOB,CH,ROB= 0.3045 0.2966 0.3990 WSEL= 208.83

SECNO	DEPTH	CWSEL	CRIWS	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= 479.1 572.0 TYPE= 4 TARGET= 0.248

450.00	9.03	209.03	0.0	208.03	209.15	0.12	0.0	0.0	202.00
1160.	363.	321.	476.	173.	80.	226.	0.	0.	202.00
0.0	2.10	4.00	2.10	0.085	0.060	0.085	0.0	200.00	479.06
0.001786	450.	450.	450.	0	0	1	0.0	92.94	572.00

2800 NAT Q1= 277.74 WSEL= 210.05 ENC Q1= 277.74 WSEL= 210.85 RATIO= 0.0
 NAT Q1= 374. RATIOS LOB,CH,ROB= 0.1355 0.2553 0.6092 WSEL= 210.85

3470 ENCROACHMENT STATIONS= 1055.5 1141.4 TYPE= 4 TARGET= 0.258

1200.00	7.84	210.44	0.0	210.05	210.56	0.12	1.41	0.00	205.70
1160.	177.	388.	596.	82.	104.	263.	8.	2.	205.60
0.08	2.16	3.71	2.26	0.085	0.060	0.085	0.060	202.60	1055.45
0.001992	750.	750.	750.	3	0	1	0.0	85.97	1141.42

2800 NAT Q1= 43.62 WSEL= 230.53 ENC Q1= 43.62 WSEL= 231.33 RATIO= 0.0
 NAT Q1= 75. RATIOS LOB,CH,ROB= 0.9709 0.0291 0.0 WSEL= 231.33
 3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

3265 DIVIDED FLOW

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
	450.00	450.00	0.0	0.0	200.00	1160.00	208.03	184.52	208.23	123.01	0.0	5.44
	450.00	450.00	0.0	0.0	200.00	1160.00	209.03	274.45	209.15	92.94	479.06	4.00
	1200.00	750.00	0.0	0.0	202.60	1160.00	210.05	277.74	210.13	170.22	0.0	3.34
	1200.00	750.00	0.0	0.0	202.60	1160.00	210.44	259.91	210.56	85.97	1055.45	3.71
A	3600.00	2400.00	0.0	0.0	226.40	1160.00	230.53	43.62	231.39	91.53	0.0	5.55
	3600.00	2400.00	0.0	0.0	226.40	1160.00	231.17	39.27	232.17	76.10	1110.73	7.44
B	5200.00	1600.00	0.0	0.0	243.20	1160.00	248.99	177.33	249.11	143.34	0.0	1.76
	5200.00	1600.00	0.0	0.0	243.20	1160.00	249.88	180.92	250.02	106.66	1333.11	2.19
	5300.00	100.00	0.0	0.0	248.40	1160.00	255.38	53.73	257.06	34.29	0.0	10.40
	5300.00	100.00	0.0	0.0	248.40	1160.00	255.38	53.71	257.06	34.29	1100.00	10.40
C	5330.00	30.00	0.0	0.0	243.20	1160.00	257.23	1973.84	257.23	282.69	0.0	0.55
	5330.00	30.00	0.0	0.0	243.20	1160.00	257.23	1973.98	257.23	282.71	1220.00	0.55
D	7830.00	2500.00	0.0	0.0	266.00	1160.00	269.83	57.67	270.44	167.64	0.0	10.10
	7830.00	2500.00	0.0	0.0	266.00	1160.00	270.58	54.27	271.92	47.52	1136.11	12.30
	7880.00	50.00	0.0	0.0	266.10	1160.00	275.07	47.45	275.63	209.63	0.0	8.04
	7880.00	50.00	0.0	0.0	266.10	1160.00	275.94	43.17	277.03	55.97	1667.28	9.56
	7922.00	42.00	0.0	0.0	266.10	1160.00	275.65	87.21	275.83	248.27	0.0	4.62
	7922.00	42.00	0.0	0.0	266.10	1160.00	276.51	81.63	276.86	84.68	1662.05	5.30
E	7972.00	50.00	0.0	0.0	266.30	1160.00	276.31	130.47	276.41	278.18	0.0	3.21
	7972.00	50.00	0.0	0.0	266.30	1160.00	277.30	133.43	277.46	105.51	1657.95	3.39

1267
1110
156

1598
1333

LAKE BACKWATER
265
1220
355
1160.00

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
450.000	1160.000	208.027	0.0	0.0	0.0	123.008	0.0	450.000
450.000	1160.000	209.030	1.003	0.0	0.0	92.935	30.073	450.000
1200.000	1160.000	210.052	0.0	2.024	0.0	170.221	0.0	750.000
1200.000	1160.000	210.440	0.388	1.410	0.0	85.967	84.254	750.000
3600.000	1160.000	230.525	0.0	20.474	0.0	91.533	0.0	2400.000
3600.000	1160.000	231.174	0.649	20.734	0.0	76.103	15.429	2400.000
5200.000	1160.000	248.994	0.0	18.469	0.0	143.343	0.0	1600.000
5200.000	1160.000	249.879	0.885	18.705	0.0	106.656	36.688	1600.000
5300.000	1160.000	255.380	0.0	6.386	0.0	34.294	0.0	100.000
5300.000	1160.000	255.379	-0.001	5.500	0.0	34.287	0.007	100.000
5330.000	1160.000	257.225	0.0	1.845	0.0	282.692	0.0	30.000
5330.000	1160.000	257.226	0.000	1.846	0.0	282.710	-0.018	30.000
7830.000	1160.000	269.830	0.0	12.604	0.0	167.638	0.0	2500.000
7830.000	1160.000	270.579	0.750	13.354	0.0	47.523	120.115	2500.000

HIGH NAT. VEL USE "O" ENC

LAKE BACKWATER

7880.000	1160.000	275.072	0.0	5.242	0.0	209.626	0.0	50.000
7880.000	1160.000	275.938	0.866	5.358	0.0	55.970	153.656	50.000
7922.000	1160.000	275.647	0.0	0.575	0.0	248.265	0.0	42.000
7922.000	1160.000	276.512	0.865	0.575	0.0	84.679	163.586	42.000
7972.000	1160.000	276.312	0.0	0.665	0.0	278.181	0.0	50.000
7972.000	1160.000	277.300	0.988	0.787	0.0	105.507	172.675	50.000

DATA FOR LAST CROSS SECTION
PROFILE TYPE ENC

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	28.024	0.0
2	4.000	0.496	19.345	-8.679

7880.000	1160.000	275.072	0.0	5.242	0.0	209.626	0.0	50.000
7880.000	1160.000	275.938	0.866	5.358	0.0	55.970	153.656	50.000
7922.000	1160.000	275.647	0.0	0.575	0.0	248.265	0.0	42.000
7922.000	1160.000	276.512	0.865	0.575	0.0	84.679	163.586	42.000
7972.000	1160.000	276.312	0.0	0.665	0.0	278.181	0.0	50.000
7972.000	1160.000	277.300	0.988	0.787	0.0	105.507	172.675	50.000

DATA FOR LAST CROSS SECTION
PROFILE TYPE ENC

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	28.024	0.0
2	4.000	0.496	19.345	-8.679