
 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 5 BASIN 16
 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	FQ
-10.	3.	0.	0.	0.006000	0.0	0.0	0.	265.000	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	0.0

CCHV= 0.100 CEHV= 0.300

3265 DIVIDED FLOW

SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XLNCH	XLNR	WTN	ELMIN	SSTA
SLOPE	XLQBL	XLCH	XLQBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENUST
425.00	4.65	265.55	0.0	265.00	265.69	0.14	0.0	0.0	264.90
740.	2.	222.	516.	3.	58.	203.	0.	0.	263.30
0.0	0.67	3.85	2.54	0.080	0.060	0.080	0.0	260.90	1282.61
0.005894	427.	425.	423.	0	0	5	0.0	185.56	2177.49

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

3265 DIVIDED FLOW

SECNO	DEPTH	CWSEL	CRIS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XLNCH	XLNR	WTN	ELMIN	SSTA
SLOPE	XLQBL	XLCH	XLQBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENUST
500.00	3.58	282.98	282.98	0.0	283.21	0.22	0.98	0.0	280.40
740.	454.	53.	232.	141.	6.	95.	0.	1.	280.40
0.01	3.23	9.12	2.44	0.080	0.060	0.080	0.059	279.40	1030.33
0.049625	75.	75.	75.	30	23	1	0.0	475.07	1509.19

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 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
-10.	4.	0.	0.	0.006000	0.0	0.0	0.	267.000	0.0	

J2	NPROF	IPL0T	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHN1M	ITRACE
3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CCHV= 0.100 CEHV= 0.300

3265 DIVIDED FLOW

SECNO	DEPTH	CWSEL	CR1WS	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
425.00	5.09	265.99	0.0	267.00	266.13	0.14	0.0	0.0	264.90
1050.	7.	283.	759.	8.	66.	335.	0.	0.	263.30
0.0	0.97	4.29	2.27	0.080	0.060	0.080	0.0	260.90	1276.95
0.006119	427.	425.	423.	0	0	6	0.0	418.32	2177.76

3685 20 TRIALS USED WSEL,CWSEL

7185 MIN SPECIFIC ENERGY

3720 ASSUMED CRITICAL DEPTH

SECNO	DEPTH	CWSEL	CR1WS	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
500.00	3.67	283.07	283.07	0.0	283.37	0.30	1.07	0.0	280.40
1050.	633.	64.	353.	163.	6.	113.	1.	1.	280.40
0.01	3.88	10.57	3.11	0.080	0.060	0.080	0.039	279.40	1029.52
0.064275	75.	75.	75.	30	13	1	0.0	482.46	1511.98

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T1 TRIBUTARY 5 BASIN 16
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
-10.	5.	0.	0.	0.006000	0.0	0.0	0.	270.000	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

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
425.00	5.73	266.63	0.0	270.00	266.76	0.13	0.0	0.0	264.90
1790.	27.	370.	1393.	19.	78.	643.	0.	0.	263.30
0.0	1.44	4.74	2.17	0.080	0.060	0.080	0.0	260.90	1271.36
0.005957	427.	425.	423.	0	0	6	0.0	662.72	2178.16

3605 20 TRIALS USED WSEL,CWSEL

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
500.00	3.90	283.30	283.30	0.0	283.68	0.39	1.07	0.0	280.40
1790.	1048.	75.	667.	223.	6.	163.	1.	1.	280.40
0.00	4.70	11.64	4.09	0.080	0.060	0.080	0.059	279.40	1027.39
0.071097	75.	75.	75.	30	17	1	0.0	491.85	1519.24

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

500 YEAR FLOOD WATER SUR

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
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425.00	425.00	0.0	0.0	260.90	200.00	263.72	25.95	263.81	58.02	0.0	0.0	2.36
425.00	425.00	0.0	0.0	260.90	740.00	265.55	96.39	265.69	185.56	0.0	0.0	3.85
425.00	425.00	0.0	0.0	260.90	1050.00	265.99	134.23	266.13	418.32	0.0	0.0	4.29
425.00	425.00	0.0	0.0	260.90	1790.00	266.63	231.92	266.76	662.72	0.0	0.0	4.74

500.00	75.00	0.0	0.0	279.40	200.00	282.64	11.92	282.81	374.99	0.0	0.0	6.35
500.00	75.00	0.0	0.0	279.40	740.00	282.98	33.22	283.21	475.07	0.0	0.0	9.12
500.00	75.00	0.0	0.0	279.40	1050.00	283.07	41.42	283.37	482.46	0.0	0.0	10.57
500.00	75.00	0.0	0.0	279.40	1790.00	283.30	67.13	283.68	491.85	0.0	0.0	11.64

530.00	30.00	280.90	281.40	279.40	200.00	282.72	15.10	282.81	408.88	0.0	0.0	5.10
530.00	30.00	280.90	281.40	279.40	740.00	283.04	39.13	283.21	481.51	0.0	0.0	7.84
530.00	30.00	280.90	281.40	279.40	1050.00	283.18	54.09	283.37	487.36	0.0	0.0	8.29
530.00	30.00	280.90	281.40	279.40	1790.00	283.53	100.81	283.75	501.85	0.0	0.0	8.11

585.00	75.00	0.0	0.0	263.00	200.00	282.82	6980.69	282.82	560.98	0.0	0.0	0.05
585.00	75.00	0.0	0.0	263.00	740.00	283.22	7332.33	283.22	568.21	0.0	0.0	0.17
585.00	75.00	0.0	0.0	263.00	1050.00	283.39	7479.93	283.39	571.19	0.0	0.0	0.24
585.00	75.00	0.0	0.0	263.00	1790.00	283.77	7816.72	283.77	577.87	0.0	0.0	0.39

3000.00	2415.00	0.0	0.0	280.80	150.00	282.84	6.51	283.46	19.72	0.0	0.0	6.32
3000.00	2415.00	0.0	0.0	280.80	690.00	285.09	43.14	285.89	91.34	0.0	0.0	7.72
3000.00	2415.00	0.0	0.0	280.80	920.00	285.59	62.34	286.32	151.09	0.0	0.0	7.76
3000.00	2415.00	0.0	0.0	280.80	1310.00	286.08	90.00	286.81	206.17	0.0	0.0	8.25

3100.00	100.00	0.0	0.0	282.20	150.00	285.38	13.83	285.66	11.00	0.0	0.0	4.29
3100.00	100.00	0.0	0.0	282.20	690.00	287.83	30.34	289.76	11.00	0.0	0.0	11.14
3100.00	100.00	0.0	0.0	282.20	920.00	288.19	32.93	291.22	11.00	0.0	0.0	13.97
3100.00	100.00	0.0	0.0	282.20	1310.00	289.80	44.84	293.61	11.00	0.0	0.0	15.68

3110.00	10.00	300.60	289.90	282.20	150.00	285.38	13.81	285.66	11.00	0.0	0.0	4.29
3110.00	10.00	300.60	289.90	282.20	690.00	287.83	30.35	289.76	11.00	0.0	0.0	11.14
3110.00	10.00	300.60	289.90	282.20	920.00	288.19	32.95	291.22	11.00	0.0	0.0	13.96
3110.00	10.00	300.60	289.90	282.20	1310.00	293.81	76.14	295.44	11.00	0.0	0.0	10.25

3210.00	100.00	0.0	0.0	284.30	150.00	286.82	11.02	287.13	21.68	0.0	0.0	5.42
3210.00	100.00	0.0	0.0	284.30	690.00	290.38	163.77	290.45	254.63	0.0	0.0	2.72
3210.00	100.00	0.0	0.0	284.30	920.00	291.71	356.17	291.74	295.72	0.0	0.0	1.97
3210.00	100.00	0.0	0.0	284.30	1310.00	295.63	1420.33	295.64	360.90	0.0	0.0	0.99

4450.00	1240.00	0.0	0.0	291.30	230.00	296.02	33.51	296.18	39.77	0.0	0.0	3.32
4450.00	1240.00	0.0	0.0	291.30	700.00	296.29	38.55	297.43	51.67	0.0	0.0	9.06
4450.00	1240.00	0.0	0.0	291.30	1100.00	297.38	83.56	297.95	217.69	0.0	0.0	7.52
4450.00	1240.00	0.0	0.0	291.30	2340.00	298.07	144.42	298.95	235.81	0.0	0.0	10.23

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH 0	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
425.000	200.000	263.721	0.0	0.0	0.0	58.017	0.0	425.000
425.000	740.000	265.552	1.832	0.0	0.0	185.559	-127.542	425.000
425.000	1050.000	265.992	0.440	0.0	0.0	418.322	-360.305	425.000
425.000	1790.000	266.628	0.636	0.0	0.0	662.719	-604.702	425.000

GR	302.600	1094.000	301.200	1100.000	501.100	1192.000	374.986	0.0	75.000
	500.000	200.000	282.644	0.0	18.923	0.0	374.986	0.0	75.000
	500.000	740.000	282.984	0.341	17.432	0.0	475.072	-100.086	75.000
	500.000	1050.000	283.071	0.086	17.079	0.0	482.464	-107.478	75.000
	500.000	1790.000	283.296	0.225	16.668	0.0	491.849	-116.863	75.000
	530.000	200.000	282.715	0.0	0.072	0.0	408.882	0.0	30.000
1	530.000	740.000	283.043	0.328	0.059	0.0	481.507	-72.624	30.000
2	530.000	1050.000	283.184	0.141	0.113	0.0	487.361	-78.479	30.000
3	530.000	1790.000	283.534	0.350	0.239	0.0	501.852	-92.970	30.000
4									
5	585.000	200.000	282.815	0.0	0.100	0.0	560.977	0.0	75.000
6	585.000	740.000	283.223	0.407	0.179	0.0	568.208	-7.231	75.000
7	585.000	1050.000	283.391	0.168	0.206	0.0	571.188	-10.211	75.000
8	585.000	1790.000	283.767	0.376	0.232	0.0	577.872	-16.895	75.000
9									
10	3000.000	150.000	282.836	0.0	0.021	0.0	19.720	0.0	2415.000
11	3000.000	690.000	285.089	2.253	1.866	0.0	91.342	-71.622	2415.000
12	3000.000	920.000	285.587	0.498	2.196	0.0	151.088	-131.369	2415.000
13	3000.000	1310.000	286.075	0.488	2.309	0.0	206.172	-186.452	2415.000
14									
15	3100.000	150.000	285.377	0.0	2.541	0.0	11.000	0.0	100.000
16	3100.000	690.000	287.829	2.452	2.740	0.0	11.000	0.0	100.000
17	3100.000	920.000	288.188	0.359	2.602	0.0	11.000	0.0	100.000
18	3100.000	1310.000	289.795	1.607	3.720	0.0	11.000	0.0	100.000
19									
20	3110.000	150.000	285.377	0.0	0.0	0.0	11.000	0.0	10.000
21	3110.000	690.000	287.830	2.453	0.001	0.0	11.000	0.0	10.000
22	3110.000	920.000	288.191	0.360	0.002	0.0	11.000	0.0	10.000
23	3110.000	1310.000	293.813	5.622	4.017	0.0	11.000	0.0	10.000
24									
25	3210.000	150.000	286.825	0.0	1.448	0.0	21.682	0.0	100.000
26	3210.000	690.000	290.382	3.558	2.552	0.0	254.628	-232.946	100.000
27	3210.000	920.000	291.710	1.328	3.520	0.0	295.716	-274.034	100.000
28	3210.000	1310.000	295.631	3.921	1.819	0.0	360.898	-339.216	100.000
29									
30	4450.000	230.000	296.019	0.0	9.194	0.0	39.775	0.0	1240.000
31	4450.000	700.000	296.289	0.270	5.907	0.0	51.665	-11.890	1240.000
32	4450.000	1100.000	297.380	1.091	5.670	0.0	217.687	-177.913	1240.000
33	4450.000	2340.000	298.067	0.687	2.436	0.0	235.811	-196.037	1240.000
34									

DATA FOR LAST CROSS SECTION

PROFILE	TYPE	ENC	TARGET	TOP WIDTH	TOP WIDTH
				AREA-ACRES	AREA-DIFF

1	0.0	0.0	18.524	0.0
2	0.0	0.0	24.871	6.347
3	0.0	0.0	29.900	11.376
4	0.0	0.0	33.184	14.660

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-1.	4.	0.	0.	0.006000	0.0	0.0	0.	267.000	0.0	
J2	NPROF	IPL0T	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	0.0
J3	1.000	34.000	3.000	4.000	27.000	28.000	26.000	0.0	0.0	0.0
NC	0.080	0.080	0.060	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	200.000	740.000	1050.000	1790.000	1050.000	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	425.000	27.000	1291.000	1310.000	427.000	423.000	425.000	0.0	0.0	0.0
GR	281.900	1076.000	277.900	1100.000	274.300	1131.000	272.100	1200.000	271.300	1248.000
GR	266.300	1273.000	264.900	1291.000	262.200	1296.000	261.200	1300.000	262.200	1304.000
GR	263.300	1310.000	265.700	1400.000	265.500	1500.000	265.800	1600.000	266.100	1700.000
GR	266.700	1800.000	266.300	1900.000	268.400	2100.000	267.000	2145.000	261.500	2155.000
GR	260.900	2165.000	261.500	2175.000	268.000	2179.000	267.600	2200.000	267.300	2300.000
GR	269.400	2350.000	283.900	2400.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-5.400	0.0	0.0	0.0	0.0
X1	500.000	16.000	1294.100	1296.000	75.000	75.000	75.000	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	290.000	900.000	286.200	1000.000	280.900	1050.000	282.900	1092.000	283.000	1100.000
GR	282.400	1200.000	282.600	1294.000	280.400	1294.100	279.400	1295.000	280.400	1296.000
GR	282.600	1296.100	282.600	1300.000	282.400	1400.000	282.700	1500.000	285.800	1600.000
GR	290.000	1850.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.990	2.800	0.0	2.000	0.001	3.100	0.0	0.0	0.0
X1	530.000	0.0	0.0	0.0	30.000	30.000	30.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	0.0	0.0	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	16.000	900.000	290.000	0.0	1000.000	286.200	0.0	1050.000	280.900	0.0
BT	1092.000	282.900	0.0	1100.000	283.000	0.0	1200.000	282.400	0.0	1294.000
BT	282.600	0.0	1294.100	282.600	280.400	1295.000	282.600	281.400	1296.000	282.600
BT	280.400	1296.100	282.600	0.0	1300.000	282.600	0.0	1400.000	282.400	0.0
BT	1500.000	282.700	0.0	1600.000	290.000	0.0	1850.000	290.000	0.0	0.0
X1	585.000	11.000	1290.000	1300.000	75.000	75.000	75.000	0.0	-1.000	0.0
GR	280.200	1000.000	280.900	1050.000	278.100	1092.000	277.100	1100.000	268.500	1200.000
GR	266.000	1290.000	264.000	1295.000	266.000	1300.000	267.300	1400.000	273.800	1500.000
GR	285.800	1600.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QT	5.000	150.000	690.000	920.000	1310.000	920.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-15.400	0.0	0.0	0.0	0.0
X1	3000.000	14.000	1350.000	1377.000	2420.000	2410.000	2415.000	0.0	-3.500	0.0

[illegible]

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOOD WATER SUR

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
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425.00	425.00	0.0	0.0	260.90	1050.00	265.99	134.23	266.13	418.32	0.0	0.0	4.29
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500.00	75.00	0.0	0.0	279.40	1050.00	283.07	41.42	283.37	482.46	0.0	0.0	10.57
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530.00	30.00	280.90	281.40	279.40	1050.00	283.18	54.09	283.37	487.36	0.0	0.0	8.29
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585.00	75.00	0.0	0.0	263.00	1050.00	283.39	7479.93	283.39	571.19	0.0	0.0	0.24
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3000.00	2415.00	0.0	0.0	280.80	920.00	285.59	62.34	286.32	151.09	0.0	0.0	7.76
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3100.00	100.00	0.0	0.0	282.20	920.00	288.19	32.93	291.22	11.00	0.0	0.0	13.97
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3110.00	10.00	300.60	289.90	282.20	920.00	288.19	32.95	291.22	11.00	0.0	0.0	13.96
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3210.00	100.00	0.0	0.0	284.30	920.00	291.71	356.17	291.74	295.72	0.0	0.0	1.97
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4450.00	1240.00	0.0	0.0	291.30	1100.00	297.38	83.56	297.95	217.69	0.0	0.0	7.52
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SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
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425.000	1050.000	265.992	0.0	0.0	0.0	418.322	0.0	425.000
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500.000	1050.000	283.071	0.0	17.079	0.0	482.464	0.0	75.000
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530.000	1050.000	283.184	0.0	0.113	0.0	487.361	0.0	30.000
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585.000	1050.000	283.391	0.0	0.206	0.0	571.188	0.0	75.000
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3000.000	920.000	285.587	0.0	2.196	0.0	151.088	0.0	2415.000
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3100.000	920.000	288.188	0.0	2.602	0.0	11.000	0.0	100.000
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3110.000	920.000	288.191	0.0	0.002	0.0	11.000	0.0	10.000
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3210.000	920.000	291.710	0.0	3.520	0.0	295.716	0.0	100.000
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4450.000	1100.000	297.380	0.0	5.670	0.0	217.687	0.0	1240.000
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DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
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1	0.0	0.0	29.900	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

T1 TRIBUTARY 5 BASIN 16
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-6 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.	266.990	0.0

J2	NPROF	IPLOT	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	0.0

CCHV= 0.100 CEHV= 0.300
 2800 NAT Q1= 134.23 WSEL= 265.99 ENC Q1= 134.23 WSEL= 266.99 RATIO= 0.0
 NAT Q1= 316. RATIOS LOB,CH,ROB= 0.0187 0.1744 0.8069 WSEL= 266.99

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

3470 ENCROACHMENT STATIONS= 1285.5 1402.1 TYPE= 4 TARGET= 0.576

425.00	6.09	266.99	0.0	265.99	267.21	0.22	0.0	0.0	264.90
1050.	23.	428.	599.	10.	85.	227.	0.	0.	263.30
0.0	2.19	5.04	2.64	0.080	0.060	0.080	0.0	260.90	1285.45
0.006035	427.	425.	423.	0	0	1	0.0	116.66	1402.11

2800 NAT Q1= 41.42 WSEL= 283.07 ENC Q1= 41.42 WSEL= 283.57 RATIO= 0.0
 NAT Q1= 106. RATIOS LOB,CH,ROB= 0.5737 0.0302 -0.3961 WSEL= 283.57
 3685 20 TRIALS USED WSEL,CWSEL

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

3470 ENCROACHMENT STATIONS= 1179.5 1371.6 TYPE= 4 TARGET= 0.610

500.00	4.13	283.53	283.53	283.07	284.06	0.53	1.08	0.0	280.40
1050.	597.	83.	370.	119.	7.	76.	0.	0.	280.40
0.00	5.01	12.03	4.89	0.080	0.060	0.080	0.059	279.40	1179.51
0.069484	75.	75.	75.	30	17	1	0.0	192.09	1371.61

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
425.00	425.00	0.0	0.0	260.90	1050.00	265.99	134.25	266.13	418.32	0.0	0.0	4.29
425.00	425.00	0.0	0.0	260.90	1050.00	266.99	135.16	267.21	116.66	1285.45	1402.11	5.04
500.00	75.00	0.0	0.0	279.40	1050.00	283.07	41.42	283.37	482.46	0.0	0.0	10.57
500.00	75.00	0.0	0.0	279.40	1050.00	283.53	39.83	284.06	192.09	1179.51	1371.61	12.03
530.00	30.00	0.0	0.0	279.40	1050.00	283.18	54.09	283.37	487.36	0.0	0.0	8.29
530.00	30.00	0.0	0.0	279.40	1050.00	283.64	52.87	283.96	218.22	1163.67	1381.89	9.25
A 585.00	75.00	0.0	0.0	263.00	1050.00	283.39	7479.93	283.39	571.19	1950.00	0.0	0.24
585.00	75.00	0.0	0.0	263.00	1050.00	283.99	7649.70	283.99	414.01	1100.67	1514.69	0.24
B 3000.00	2415.00	0.0	0.0	280.80	920.00	285.59	62.34	286.32	151.09	0.0	0.0	7.76
3000.00	2415.00	0.0	0.0	280.80	920.00	285.55	45.93	287.25	26.38	1350.00	1377.00	10.47
3100.00	100.00	0.0	0.0	282.20	920.00	288.19	32.93	291.22	11.00	0.0	0.0	13.97
3100.00	100.00	0.0	0.0	282.20	920.00	289.60	43.34	291.58	11.00	1304.50	1315.50	11.31
3110.00	10.00	0.0	0.0	282.20	920.00	288.19	32.95	291.22	11.00	0.0	0.0	13.96
3110.00	10.00	0.0	0.0	282.20	920.00	289.60	43.36	291.58	11.00	1304.50	1315.50	11.30
3210.00	100.00	0.0	0.0	284.30	920.00	291.71	356.17	291.74	295.72	0.0	0.0	1.97
3210.00	100.00	0.0	0.0	284.30	920.00	292.00	304.91	292.05	137.70	1273.66	1411.36	2.38
4450.00	1240.00	0.0	0.0	291.30	1100.00	297.38	83.56	297.95	217.69	0.0	0.0	7.52
4450.00	1240.00	0.0	0.0	291.30	1100.00	297.76	85.76	298.43	150.00	799.00	949.00	7.76

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
425.000	1050.000	265.992	0.0	0.0	0.0	418.322	0.0	425.000
425.000	1050.000	266.990	0.998	0.0	0.0	116.659	301.663	425.000
500.000	1050.000	283.071	0.0	17.079	0.0	482.464	0.0	75.000
500.000	1050.000	283.531	0.460	16.541	0.0	192.094	290.370	75.000
530.000	1050.000	283.184	0.0	0.113	0.0	487.361	0.0	30.000
530.000	1050.000	283.644	0.460	0.113	0.0	218.217	269.144	30.000
A 585.000	1050.000	283.391	0.0	0.206	0.0	571.188	0.0	75.000
585.000	1050.000	283.992	0.602	0.348	0.0	414.010	157.178	75.000
B 3000.000	920.000	285.537	0.0	2.196	0.0	151.088	0.0	2415.000
3000.000	920.000	285.548	-0.039	1.555	0.0	26.377	124.711	2415.000
3100.000	920.000	288.188	0.0	2.602	0.0	11.000	0.0	100.000
3100.000	920.000	289.596	1.408	4.049	0.0	11.000	0.0	100.000
3110.000	920.000	288.191	0.0	0.002	0.0	11.000	0.0	10.000
3110.000	920.000	289.599	1.408	0.002	0.0	11.000	0.0	10.000

ZERO ENC HIGH NAT
VEL.

C 3210.000	920.000	291.710	0.0	3.520	0.0	295.716	0.0	100.000
3210.000	920.000	292.000	0.290	2.402	0.0	137.698	158.018	100.000

DATA FOR LAST CROSS SECTION
PROFILE TYPE ENC

DATA FOR LAST CROSS SECTION
PROFILE TYPE ENC

TARGET	TOP WIDTH	TOP WIDTH
	AREA-ACRES	AREA-DIFF

1	0.0	0.0	29.900	0.0
2	1.000	150.000	17.474	-12.426

1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
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41	41
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43	43
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57	57
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60	60
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62	62
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65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76

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
700.00	700.00	0.0	0.0	212.80	1750.00	221.05	184.09	221.88	102.57	0.0	0.0	7.30
1250.00	550.00	0.0	0.0	213.50	1750.00	223.03	582.73	223.10	260.65	0.0	0.0	3.27
1300.00	50.00	0.0	0.0	213.80	1750.00	222.74	219.98	223.36	41.24	0.0	0.0	6.33
1325.00	25.00	225.10	231.30	213.80	1750.00	222.78	221.78	223.40	41.28	0.0	0.0	6.29
1375.00	50.00	0.0	0.0	213.70	1750.00	223.46	621.92	223.54	262.31	0.0	0.0	2.56
5500.00	4125.00	0.0	0.0	226.40	1750.00	231.41	147.84	232.31	49.81	0.0	0.0	7.61
6150.00	650.00	0.0	0.0	229.00	1750.00	237.03	247.90	237.44	117.57	0.0	0.0	5.89
6250.00	100.00	0.0	0.0	230.00	1750.00	237.52	227.63	238.00	58.06	0.0	0.0	5.58
6275.00	25.00	243.90	245.40	230.00	1750.00	237.56	229.85	238.03	58.18	0.0	0.0	5.54
6375.00	100.00	0.0	0.0	231.00	1750.00	238.12	177.53	238.85	109.83	0.0	0.0	7.53
11600.00	5225.00	0.0	0.0	242.80	1600.00	254.39	433.18	254.62	97.66	0.0	0.0	3.96
13100.00	1500.00	0.0	0.0	248.30	1550.00	257.74	218.99	258.18	101.29	0.0	0.0	5.36
16275.00	3175.00	0.0	0.0	256.90	1550.00	268.34	322.60	268.60	93.60	0.0	0.0	4.15
16400.00	125.00	0.0	0.0	259.90	1550.00	268.66	259.46	268.97	58.32	0.0	0.0	4.52
16425.00	25.00	281.50	281.50	259.90	1550.00	268.67	260.68	268.99	58.36	0.0	0.0	4.50
16550.00	125.00	0.0	0.0	258.90	1550.00	269.10	241.34	269.49	49.17	0.0	0.0	5.03
19000.00	2450.00	0.0	0.0	270.60	1550.00	278.61	261.02	278.84	147.74	0.0	0.0	4.58
22150.00	3150.00	0.0	0.0	278.00	1300.00	285.12	375.79	285.17	732.30	0.0	0.0	2.53
22400.00	250.00	0.0	0.0	278.40	1300.00	285.38	158.27	285.90	66.38	0.0	0.0	6.07
22425.00	25.00	293.10	290.40	278.40	1300.00	285.40	159.30	285.92	66.53	0.0	0.0	6.04
22925.00	500.00	0.0	0.0	280.20	1300.00	287.60	281.50	287.70	385.84	0.0	0.0	3.23
26800.00	3875.00	0.0	0.0	289.60	900.00	297.20	160.59	297.30	155.70	0.0	0.0	2.50
30360.00	3560.00	0.0	0.0	306.70	900.00	312.14	116.74	312.32	265.71	0.0	0.0	4.72
30400.00	40.00	0.0	0.0	307.90	900.00	311.85	39.64	313.83	20.20	0.0	0.0	11.28
30425.00	25.00	317.30	317.30	307.90	900.00	312.73	53.17	314.05	20.20	0.0	0.0	9.23
30465.00	40.00	0.0	0.0	307.50	900.00	314.26	287.79	314.29	380.89	0.0	0.0	2.27

31800.00	600.00	0.0	0.0	312.90	820.00	321.16	237.65	321.28	49.46	0.0	0.0	2.92
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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
31825.00	25.00	321.60	320.00	312.90	820.00	321.27	243.71	321.39	49.79	0.0	0.0	2.87
32425.00	600.00	0.0	0.0	316.50	820.00	322.39	125.04	322.61	214.28	0.0	0.0	4.42
34500.00	2075.00	0.0	0.0	327.20	820.00	332.76	106.91	332.99	210.64	0.0	0.0	4.82
37425.00	2925.00	0.0	0.0	342.10	525.00	347.37	83.82	347.53	85.41	0.0	0.0	3.53
38250.00	825.00	0.0	0.0	344.10	525.00	350.29	95.63	350.37	116.21	0.0	0.0	3.19
38275.00	25.00	349.10	348.90	344.10	525.00	350.64	116.38	350.70	123.40	0.0	0.0	2.74
38315.00	40.00	0.0	0.0	344.90	525.00	350.69	97.39	350.81	160.96	0.0	0.0	3.20
39000.00	685.00	0.0	0.0	349.20	525.00	354.06	45.92	354.62	30.90	0.0	0.0	5.97
41200.00	2200.00	0.0	0.0	369.40	525.00	375.59	60.48	376.05	52.48	0.0	0.0	6.21
41400.00	200.00	0.0	0.0	372.80	525.00	378.88	30.05	379.93	43.95	0.0	0.0	9.71
41460.00	60.00	382.70	380.00	372.80	525.00	378.88	30.07	379.93	43.96	0.0	0.0	9.71
41660.00	200.00	0.0	0.0	378.40	525.00	383.73	38.22	384.68	39.75	0.0	0.0	8.52

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
700,000	1750.000	221.055	0.0	0.0	0.0	102.571	0.0	700,000
1250,000	1750.000	223.028	0.0	1.973	0.0	260.654	0.0	550,000
1300,000	1750.000	222.739	0.0	-0.289	0.0	41.238	0.0	50,000
1325,000	1750.000	222.780	0.0	0.041	0.0	41.276	0.0	25,000
1375,000	1750.000	223.463	0.0	0.682	0.0	262.305	0.0	50,000
5500,000	1750.000	231.413	0.0	7.950	0.0	49.807	0.0	4125,000
6150,000	1750.000	237.030	0.0	5.617	0.0	117.566	0.0	650,000
6250,000	1750.000	237.521	0.0	0.490	0.0	58.063	0.0	100,000
6275,000	1750.000	237.558	0.0	0.037	0.0	58.181	0.0	25,000
6375,000	1750.000	238.119	0.0	0.561	0.0	109.834	0.0	100,000
11600,000	1600.000	254.395	0.0	16.276	0.0	97.660	0.0	5225,000
13100,000	1550.000	257.741	0.0	3.346	0.0	101.294	0.0	1500,000
16275,000	1550.000	268.337	0.0	10.597	0.0	93.603	0.0	3175,000
16400,000	1550.000	268.656	0.0	0.318	0.0	58.324	0.0	125,000
16425,000	1550.000	268.675	0.0	0.019	0.0	58.363	0.0	25,000
16550,000	1550.000	269.096	0.0	0.421	0.0	49.170	0.0	125,000

19000.000	1950.000	278.607	0.0	9.511	0.0	147.742	0.0	2450.000
22150.000	1300.000	285.119	0.0	6.512	0.0	732.298	0.0	3150.000
22400.000	1300.000	285.381	0.0	0.262	0.0	66.384	0.0	250.000
22425.000	1300.000	285.402	0.0	0.021	0.0	66.533	0.0	25.000
22925.000	1300.000	287.605	0.0	2.203	0.0	385.840	0.0	500.000
26800.000	900.000	297.200	0.0	9.595	0.0	155.704	0.0	3875.000
30360.000	900.000	312.139	0.0	14.939	0.0	265.709	0.0	3560.000
30400.000	900.000	311.851	0.0	-0.288	0.0	20.200	0.0	40.000
30425.000	900.000	312.728	0.0	0.877	0.0	20.200	0.0	25.000
30465.000	900.000	314.258	0.0	1.530	0.0	380.893	0.0	40.000
31200.000	900.000	317.183	0.0	2.925	0.0	26.463	0.0	735.000
31800.000	820.000	321.159	0.0	3.976	0.0	49.456	0.0	600.000
31825.000	820.000	321.275	0.0	0.116	0.0	49.787	0.0	25.000
32425.000	820.000	322.390	0.0	1.115	0.0	214.277	0.0	600.000
34500.000	820.000	332.762	0.0	10.372	0.0	210.641	0.0	2075.000
37425.000	525.000	347.374	0.0	14.611	0.0	85.406	0.0	2925.000
38250.000	525.000	350.292	0.0	2.918	0.0	116.210	0.0	825.000
38275.000	525.000	350.638	0.0	0.346	0.0	123.398	0.0	25.000
38315.000	525.000	350.691	0.0	0.053	0.0	160.960	0.0	40.000
39000.000	525.000	354.064	0.0	3.373	0.0	30.896	0.0	685.000
41200.000	525.000	375.595	0.0	21.531	0.0	52.484	0.0	2200.000
41400.000	525.000	378.880	0.0	3.285	0.0	43.949	0.0	200.000
41460.000	525.000	378.881	0.0	0.001	0.0	43.959	0.0	60.000
41660.000	525.000	383.733	0.0	4.853	0.0	39.752	0.0	200.000

DATA FOR LAST CROSS SECTION
PROFILE TYPE ENC

TARGET TOP WIDTH
AREA-ACRES TOP WIDTH
AREA-DIFF

1 0.0 0.0 158.458 0.0