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

T1 TRIB. 1 HORSE CREEK BASIN & NEUSE RIVER TRIBUTARY
 T2 FLOOD STUDY AT WAKE COUNTY NC M-G JOB NO. 6855 JW APRIL 1976
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STPT	METRIC	HVINS	Q	WSEL	FO
	-1.	2.	0.	0.	0.003000	0.0	0.0	0.	214.500	0.0
J2	NPRDF	IPLDT	PREVS	XSECV	XSECH	FN	ALLOD	IBW	CHNIM	TRACE
	-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	7.000	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
OT	5.000	2300.000	4400.000	5700.000	10200.000	5700.000	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	680.000	19.000	435.000	480.000	680.000	680.000	680.000	0.0	0.0	0.0
GP	234.800	0.0	220.200	43.000	219.900	100.000	220.000	200.000	221.200	218.000
GR	222.100	300.000	219.500	375.000	219.300	400.000	219.900	435.000	214.200	453.000
GR	214.000	455.000	213.600	466.000	212.700	470.000	214.200	477.000	220.700	480.000
GR	222.800	500.000	228.800	600.000	235.700	700.000	239.300	750.000	0.0	0.0
X1	730.000	25.000	860.000	941.000	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	221.000	222.000	0.0
GR	235.100	0.0	227.100	100.000	223.500	200.000	222.100	300.000	221.500	400.000
GR	221.100	500.000	220.500	600.000	221.400	700.000	223.100	800.000	224.300	860.000
GR	219.200	860.000	220.200	867.000	215.200	878.000	214.900	894.000	212.800	900.000
GR	212.500	902.000	212.300	903.000	213.400	908.000	215.500	915.000	217.400	922.000
GR	220.000	931.000	219.800	941.000	224.500	941.000	225.300	1000.000	229.000	1000.000
SB	1.050	1.500	2.500	0.0	81.000	0.0001	426.000	0.0	0.0	0.0
X1	750.000	0.0	0.0	0.0	20.000	20.000	20.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	221.900	220.500	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	224.300	224.500	0.0
BT	15.000	0.0	235.100	0.0	100.000	227.100	0.0	200.000	223.500	0.0
BT	300.000	222.100	0.0	400.000	221.000	0.0	500.000	221.100	0.0	600.000
BT	220.600	0.0	700.000	221.400	0.0	800.000	223.100	0.0	800.000	224.300
BT	221.900	860.000	225.100	221.900	941.000	225.200	222.000	941.000	224.500	0.0
BT	1000.000	225.300	0.0	1000.000	229.900	0.0	0.0	0.0	0.0	0.0
X1	800.000	19.000	435.000	480.000	50.000	50.000	50.000	0.0	0.0	0.0
GP	234.800	0.0	220.200	43.000	219.900	100.000	220.000	200.000	221.200	218.000
GR	222.100	300.000	219.500	375.000	219.300	400.000	219.900	435.000	214.200	453.000
GR	214.000	455.000	213.600	466.000	212.700	470.000	214.200	477.000	220.700	480.000
GR	222.800	500.000	228.800	600.000	235.700	700.000	239.300	750.000	0.0	0.0
X1	2600.000	16.000	498.000	531.000	1800.000	1800.000	1800.000	0.0	0.0	0.0
GP	244.300	0.0	223.900	57.000	222.200	100.000	222.300	200.000	222.300	300.000
GR	222.600	400.000	224.500	498.000	219.200	503.000	217.700	506.000	218.500	518.000
GR	217.800	525.000	219.200	528.000	224.800	531.000	237.900	592.000	238.500	600.000
GR	243.300	634.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	4877.000	14.000	193.000	255.000	2277.000	2277.000	2277.000	0.0	0.0	0.0
GR	245.500	0.0	230.400	100.000	231.100	193.000	223.800	211.000	220.300	231.000
GR	221.800	236.000	221.500	240.000	223.800	249.000	227.100	255.000	231.600	300.000

4-241 North Carolina Water Resources Institute

GR	229,500	400,000	230,200	500,000	243,200	600,000	245,500	814,000	0.0	0.0
X1	4927,000	28,000	1016,000	1100,000	20,000	70,000	50,000	0.710	0.0	0.0
X3	10,000	0.0	0.0	0.0	0.0	0.0	0.0	233,900	233,800	0.0
GR	244,700	0.0	241,900	100,000	230,800	200,000	238,900	300,000	238,000	400,000
GR	238,500	500,000	238,200	600,000	238,700	700,000	230,000	800,000	238,700	900,000
GR	238,600	1030,000	238,600	1013,000	238,600	1016,000	225,500	1016,000	228,000	1050,000
GR	224,100	1058,000	223,700	1065,000	224,000	1067,000	222,700	1077,000	223,000	1083,000
GR	224,100	1088,000	229,100	1056,000	229,300	1100,000	238,700	1100,000	238,600	1200,000
GR	238,900	1300,000	241,200	1400,000	244,700	1500,000	0.0	0.0	0.0	0.0
SR	0.950	1.500	2.500	0.0	84,000	3,500	658,000	0.0	0.0	0.0
X1	4950,000	0.0	0.0	0.0	23,000	23,000	23,000	0.0	0.0	0.0
X2	0.0	0.0	1,000	233,000	238,200	0.0	0.0	0.0	0.710	0.0
X3	10,000	0.0	0.0	0.0	0.0	0.0	0.0	238,800	238,800	0.0
BT	19,000	0.0	244,700	0.0	100,000	241,200	0.0	200,000	230,800	0.0
BT	300,000	238,900	0.0	400,000	238,900	0.0	500,000	238,500	0.0	600,000
BT	238,200	0.0	700,000	238,700	0.0	800,000	230,000	0.0	900,000	238,700
BT	0.0	1000,000	238,600	0.0	1013,000	238,600	0.0	1016,000	238,800	233,900
BT	1100,000	238,800	233,800	1100,000	238,700	0.0	1200,000	238,600	0.0	1300,000
BT	238,900	0.0	1400,000	241,200	0.0	1500,000	244,700	0.0	0.0	0.0
X1	5000,000	25,000	837,000	893,000	70,000	20,000	50,000	0.0	0.0	0.0
GR	244,000	0.0	233,100	100,000	231,400	133,000	229,800	200,000	229,300	300,000
GR	229,100	400,000	229,500	500,000	230,700	600,000	230,700	700,000	229,300	800,000
GR	225,300	810,000	225,200	825,000	228,700	830,000	228,500	837,000	224,000	850,000
GR	222,900	871,000	221,900	875,000	224,000	879,000	220,800	883,000	230,000	900,100
GR	229,200	1000,000	230,600	1100,000	236,900	1102,000	230,900	1200,000	244,000	1214,000
OT	5,000	1980,000	3800,000	4800,000	8600,000	4800,000	0.0	0.0	0.0	0.0
X1	7500,000	12,000	186,000	238,000	2500,000	2500,000	2500,000	0.0	0.0	0.0
GR	263,400	0.0	239,900	100,000	237,700	111,000	236,700	186,000	232,300	180,000
GR	230,500	195,000	231,200	200,000	232,300	225,000	238,200	238,000	238,400	270,000
GR	242,700	300,000	252,700	312,000	0.0	0.0	0.0	0.0	0.0	0.0
X1	10181,000	15,000	384,000	431,000	2681,000	2681,000	2681,000	0.0	0.0	0.0
GR	263,500	0.0	256,200	100,000	255,900	113,000	249,200	200,000	247,300	300,000
GR	246,000	384,000	242,100	388,000	242,900	400,000	241,200	415,000	240,300	424,000
GR	241,200	425,000	246,900	431,000	253,100	500,000	256,200	550,000	259,700	600,000
GR	263,000	650,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	10231,000	17,000	366,000	417,000	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	248,500	248,400	0.0
GR	263,300	0.0	254,600	100,000	250,000	200,000	248,900	300,000	250,500	366,000
GR	242,700	366,000	242,400	383,000	242,500	380,000	241,300	392,000	240,100	307,000
GR	240,700	400,000	241,300	402,000	247,400	412,000	247,200	417,000	250,800	417,000
GR	254,600	500,000	262,900	615,000	0.0	0.0	0.0	0.0	0.0	0.0
SR	1.050	1.500	2,500	0.0	51,000	2,000	268,000	0.0	0.0	0.0
X1	10250,000	0.0	0.0	0.0	19,000	19,000	19,000	0.0	0.0	0.0
X2	0.0	0.0	1,000	248,400	248,900	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	250,500	250,800	0.0
BT	10,000	0.0	262,300	0.0	100,000	254,600	0.0	200,000	250,000	0.0
BT	300,000	248,900	0.0	366,000	250,500	0.0	366,000	251,400	248,500	417,000
BT	251,500	248,400	417,000	250,800	0.0	500,000	254,600	0.0	615,000	262,900
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	10300,000	15,000	444,000	477,000	50,000	50,000	50,000	0.0	0.0	0.0
GR	262,300	0.0	253,400	41,000	252,100	100,000	249,300	200,000	250,300	300,000
GR	248,400	400,000	247,500	444,000	241,600	450,000	240,400	453,000	240,500	456,000
GR	241,600	470,000	245,500	477,000	248,300	500,000	249,300	534,000	262,700	570,000
X1	12300,000	12,000	108,000	144,000	2000,000	2000,000	2000,000	0.0	0.0	0.0
GR	274,100	0.0	262,300	50,000	256,100	79,000	255,900	92,000	255,300	108,000
GR	249,900	119,000	249,500	123,000	248,400	130,000	247,500	140,000	250,200	144,000
GR	252,600	150,000	274,100	189,000	0.0	0.0	0.0	0.0	0.0	0.0
OT	5,000	1700,000	3450,000	4200,000	7600,000	4200,000	0.0	0.0	0.0	0.0

X1	13180.000	13.000	276.300	316.000	800.000	800.000	800.000	0.0	0.0	0.0
GR	275.900	0.0	266.500	100.000	258.700	191.000	258.900	200.000	260.900	251.000
GR	257.600	264.000	257.200	276.000	253.300	293.000	251.200	300.000	253.300	309.000
GR	260.900	316.000	260.900	400.000	275.900	460.000	0.0	0.0	0.0	0.0
X1	15570.000	12.000	55.000	85.000	2470.000	2470.000	2470.000	0.0	0.0	0.0
GR	285.800	0.0	266.100	55.000	262.500	57.000	261.000	70.000	261.600	76.000
GR	262.500	79.000	265.400	85.000	265.600	88.000	270.200	100.000	268.800	123.000
GR	277.800	200.000	282.200	267.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	15620.000	11.000	75.000	157.000	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	279.200	270.000	0.0
GR	285.200	0.0	261.300	75.000	271.800	75.000	264.000	06.000	262.400	100.000
GR	261.900	109.000	262.400	116.000	269.200	157.000	280.900	157.000	281.600	200.000
GR	285.400	300.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	1.050	1.500	2.500	0.0	81.000	1.000	1085.000	0.0	0.0	0.0
X1	15650.000	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	279.200	280.900	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	281.300	280.900	0.0
BT	9.000	0.0	285.800	0.0	70.000	281.300	0.0	75.000	281.300	0.0
BT	75.000	282.000	279.200	157.000	281.800	0.0	157.000	280.900	0.0	200.000
BT	281.600	0.0	300.600	285.400	0.0	0.0	0.0	0.0	0.0	0.0
X1	15700.000	12.000	55.000	85.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	285.800	0.0	266.100	55.000	262.500	57.000	261.000	70.000	261.600	76.000
GR	262.500	79.000	265.400	85.000	265.600	88.000	270.200	100.000	268.800	123.000
GR	277.800	200.000	282.200	267.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	17700.000	15.000	264.700	300.000	2000.000	2000.000	2000.000	0.0	0.0	0.0
GR	291.600	0.0	280.600	37.000	279.500	100.000	280.900	200.000	281.600	236.000
GR	278.300	250.000	276.600	264.000	272.600	268.000	271.400	280.000	272.600	220.000
GR	276.900	300.000	283.700	400.000	289.500	500.000	291.200	520.000	293.000	531.000
X1	18900.000	12.000	480.000	520.000	1200.000	1200.000	1200.000	0.0	0.0	0.0
GR	301.900	200.000	292.300	300.000	286.600	386.000	287.000	400.000	287.000	480.000
GR	277.200	496.000	275.700	606.000	277.200	510.000	286.400	520.000	286.700	520.000
GR	295.800	547.000	302.100	600.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	20779.000	14.000	122.000	176.000	1879.000	1879.000	1879.000	0.0	-0.100	0.0
GR	306.300	0.0	298.000	41.000	294.500	100.000	294.000	122.000	290.600	126.000
GR	288.400	139.000	287.400	150.000	288.400	167.000	294.100	176.000	295.400	200.000
GR	290.500	300.000	302.600	400.000	305.000	450.000	309.000	472.000	0.0	0.0
X1	20829.000	16.000	179.000	220.000	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	297.200	297.300	0.0
GR	308.400	0.0	300.900	100.000	299.300	179.000	291.300	179.000	291.000	183.000
GR	288.200	184.000	287.600	184.000	287.400	186.000	288.100	193.000	288.200	212.000
GR	292.300	215.000	299.300	220.000	298.900	300.000	299.800	400.000	303.800	500.000
GR	308.900	556.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.900	1.500	2.500	0.0	41.000	0.001	336.000	0.0	0.0	0.0
X1	20850.000	0.0	0.0	0.0	21.000	21.000	21.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	297.300	298.900	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	299.300	299.300	0.0
BT	10.000	0.0	308.400	0.0	100.000	300.000	0.0	179.000	299.300	0.0
BT	179.000	300.100	297.200	220.000	300.200	297.300	220.000	290.300	0.0	300.000
BT	298.900	0.0	400.600	299.400	0.0	500.000	303.800	0.0	556.000	308.200
BT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	20900.000	14.000	122.000	176.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	306.300	0.0	298.000	41.000	294.500	100.000	294.000	122.000	290.600	126.000
GR	288.400	139.000	282.500	156.000	284.700	167.000	294.100	176.000	295.400	200.000
GR	299.500	300.000	302.800	400.000	306.000	450.000	309.000	472.000	0.0	0.0
X1	21900.000	18.000	322.000	360.000	1000.000	1000.000	1000.000	0.0	0.0	0.0
GR	312.900	0.0	310.900	25.000	304.600	100.000	303.700	200.000	302.400	300.000
GR	301.600	322.000	293.900	325.000	292.400	330.000	293.900	350.000	299.800	360.000

GR	299,900	400,000	300,200	430,000	301,800	500,000	105,900	500,000	310,500	644,000
GP	310,100	700,000	300,300	750,000	315,100	775,000	0.0	0.0	0.0	0.0
X1	25780,000	15,000	576,000	596,000	3880,000	3800,000	3800,000	0.0	0.0	0.0
GR	327,800	0.0	324,400	100,000	321,100	200,000	319,600	300,000	318,500	400,000
GR	316,000	500,000	314,700	576,000	311,000	580,000	308,900	585,000	311,000	594,000
GR	314,300	596,000	314,500	600,000	316,600	660,000	320,500	700,000	325,700	800,000
GR	336,900	850,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	25830,000	25,000	602,000	654,000	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	319,500	319,400	0.0
GR	331,000	0.0	326,800	100,000	323,200	200,000	321,700	300,000	319,800	400,000
GR	318,800	500,000	320,600	600,000	320,700	602,000	315,100	602,000	313,700	620,000
GR	312,800	623,000	311,100	626,000	310,000	637,000	311,100	652,000	312,300	654,000
GR	320,800	654,000	320,700	700,000	321,200	800,000	323,400	900,000	324,500	1000,000
GR	324,900	1100,000	325,200	1200,000	325,400	1300,000	326,100	1400,000	329,400	1500,000
SB	1,050	1,500	2,500	0.0	52,000	2,000	364,000	0.0	0.0	0.0
X1	25850,000	0.0	0.0	0.0	20,000	20,000	20,000	0.0	0.0	0.0
X2	0.0	0.0	1,000	319,500	318,800	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	320,700	320,800	0.0
BT	17,000	0.0	331,300	0.0	100,000	326,800	0.0	200,000	323,800	0.0
BT	300,000	321,700	0.0	400,000	319,800	0.0	500,000	318,800	0.0	600,000
BT	320,500	0.0	602,000	320,700	0.0	602,000	321,500	319,500	654,000	321,500
BT	319,400	654,000	320,800	0.0	700,000	320,700	0.0	800,000	321,200	0.0
BT	1000,000	324,500	0.0	1200,000	325,200	0.0	1400,000	326,100	0.0	1500,000
BT	329,400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	25900,000	16,000	576,000	566,000	50,000	50,000	50,000	0.0	1,000	0.0
GR	327,800	0.0	324,400	100,000	321,100	200,000	319,600	300,000	318,500	400,000
GR	316,000	500,000	314,700	576,000	311,000	580,000	308,900	585,000	311,000	594,000
GR	314,300	596,000	314,500	600,000	316,600	660,000	320,500	700,000	325,700	800,000
GR	326,900	850,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OT	5,000	650,000	1250,300	1700,000	3250,000	1700,000	0.0	0.0	0.0	0.0
X1	27100,000	21,000	540,000	564,000	1200,000	1200,000	1200,000	0.0	0.0	0.0
GR	339,400	0.0	327,800	100,000	323,000	200,000	318,500	300,000	318,200	400,000
GR	317,200	500,000	317,900	540,000	313,600	547,000	313,000	550,000	313,600	560,000
GR	318,300	564,000	318,800	600,000	320,000	700,000	318,900	773,000	315,900	776,000
GR	319,200	782,000	318,200	800,000	317,800	858,000	321,600	900,000	325,800	930,000
GR	332,800	955,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OT	5,000	420,000	900,100	1200,000	2300,000	1200,000	0.0	0.0	0.0	0.0
X1	28100,000	15,000	406,000	423,000	1000,000	1000,000	1000,000	0.0	0.0	0.0
GR	336,500	0.0	328,400	100,000	319,900	164,000	320,500	200,000	320,200	300,000
GR	320,500	400,000	320,700	406,000	316,100	409,000	315,400	410,000	316,100	420,000
GR	320,900	423,000	320,200	500,000	321,600	580,000	326,400	595,000	336,400	635,000
X1	29500,000	18,000	815,000	850,000	1400,000	1400,000	1400,000	0.0	0.0	0.0
GR	338,300	0.0	330,600	100,000	326,800	200,000	324,500	300,000	324,300	400,000
GR	326,300	500,000	322,800	600,000	322,600	700,000	323,300	800,000	323,000	815,000
GR	317,900	833,000	317,100	837,000	316,000	840,000	317,900	841,000	323,700	850,000
GR	325,800	900,000	330,500	1000,000	338,300	1057,000	0.0	0.0	0.0	0.0
X1	30375,000	17,000	390,000	420,000	875,000	875,000	875,000	0.0	0.0	0.0
GR	347,900	0.0	341,100	100,000	337,400	200,000	332,600	273,000	331,600	300,000
GR	330,200	390,000	325,400	400,000	323,500	404,000	325,400	410,000	331,000	420,000
GR	329,000	490,000	329,100	500,000	329,900	600,000	331,100	700,000	335,800	800,000
GR	345,400	900,000	346,700	1000,000	0.0	0.0	0.0	0.0	0.0	0.0
X1	30425,000	28,000	408,000	440,000	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	331,700	331,600	0.0
GR	347,500	0.0	341,800	100,000	338,200	200,000	335,500	300,000	334,400	400,000
GR	334,500	408,000	330,200	408,000	330,900	416,000	324,900	421,000	324,300	425,000
GR	324,900	430,000	325,100	430,000	325,200	441,000	327,800	446,000	329,900	449,000
GR	334,400	449,000	333,400	500,000	331,700	600,000	331,600	700,000	331,500	800,000
GR	331,700	900,000	332,100	1000,000	333,800	1200,000	336,000	1300,000	338,900	1400,000
GR	342,700	1500,000	348,000	1600,000	350,900	1659,000	0.0	0.0	0.0	0.0

COMPAK PRINTING AND REPRODUCTION

	1.250	1.500	2.500	0.0	41.000	1.000	188.000	0.0	0.0	0.0
X1	30450.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	331.700	331.500	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	334.500	334.400	0.0
BT	15.000	0.0	347.500	0.0	2000.000	338.200	0.0	4000.000	334.400	0.0
BT	408.000	334.500	0.0	408.000	335.100	331.700	449.000	335.000	331.600	449.000
BT	334.400	0.0	500.000	333.400	0.0	600.000	331.700	0.0	800.000	331.500
BT	0.0	1000.000	332.100	0.0	1200.000	333.800	0.0	1400.000	338.900	0.0
BT	1600.000	348.000	0.0	1659.000	350.900	0.0	0.0	0.0	0.0	0.0
X1	30500.000	17.000	390.000	420.000	50.000	50.000	50.000	0.0	0.0	0.0
GR	347.900	0.0	341.100	100.000	337.400	200.000	333.600	273.000	331.600	300.000
GR	330.200	390.000	325.400	400.000	323.900	404.000	325.400	410.000	331.000	420.000
GR	329.000	490.000	329.100	500.000	329.900	600.000	331.100	700.000	335.800	800.000
GR	345.400	936.000	346.700	1000.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	32500.000	10.000	84.000	107.000	2000.000	2000.000	2000.000	0.0	0.0	0.0
GR	350.300	0.0	335.100	84.000	331.500	90.000	330.400	01.000	331.500	105.000
GR	336.100	107.000	335.300	148.000	340.100	200.000	347.100	300.000	352.100	335.000
EJ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

T1 TRID. 1 HORSE CREEK BASIN 4 NEUSE RIVER TRIBUTARY
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO. 6855
 T3 100 YEAR FLOODWAY

J1	ICHECK	INO	NINV	IPTR	STRT	METRIC	HVINS	0	WSEL	FO
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	0.0	0.0
J2	NPROF	IPLDT	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 01= 420.34 WSEL= 222.20 ENC 01= 420.34 WSEL= 223.20 RATIO= 0.0
 NAT 01= 668. RATIOS L0B,CH,ROB= 0.5003 0.4900 0.0098 WSEL= 223.20
 2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED
 3280 CROSS SECTION 680.00 EXTENDED 49871.54 FEET

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	CLOSS	BANK ELEV
0	QLOB	OCH	OROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIMF	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLORL	XLCH	XLORR	ITRIAL	IDC	ICDNT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 373.6 480.0 TYPE= 4 TARGET= 0.371
 680.00 49893.61 50106.34 0.0 222.20 50106.34 0.00 0.0 0.0 219.00
 5700. 2902. 2798. 0. 3062064. 2245097. 49. 0. 0. 220.70
 0.0 0.00 0.00 0.00 0.00 0.085 0.060 0.085 0.0 212.70 373.62
 0.000000 680. 680. 680. 0 0 1 0.0 106.38 480.00

2800 NAT 01= 434.43 WSEL= 222.37 ENC 01= 439.23 WSEL= 223.37 RATIO= -0.0111
 NAT 01= 719. RATIOS L0B,CH,ROB= 0.3688 0.6112 0.0 WSEL= 223.37
 3685 20 TRIALS USED WSEL,CWSEL
 3280 CROSS SECTION 730.00 EXTENDED 49876.44 FEET

3470 ENCROACHMENT STATIONS= 860.0 941.0 TYPE= 4 TARGET= 0.389
 730.00 49804.04 50106.34 0.0 222.37 50106.34 0.00 0.00 0.00 224.30
 5700. 0. 5700. 0. 18. 4041057. 49. 5365. 0. 224.50
 6.85 0.00 0.00 0.00 0.00 0.085 0.060 0.085 0.050 212.30 860.00
 0.000000 50. 50. 50. 21 0 1 0.0 81.00 941.00

SPECIAL BRIDGE

5070 VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED

SB	XK	XKOR	CBFO	ROLEN	BWC	BWP	BARFA	SS	ELCHU	ELCHD
	1.05	1.50	2.50	0.0	81.00	0.00	426.00	0.0	212.30	212.30

6790 20 TRIALS OF EG NOT ENOUGH

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

T1 TR18.1 HORSE CREEK BASIN 4 NEUSE RIVER TRIBUTARY
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.0855
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSE	FO
	-10.	5.	0.	0.	0.003000	0.0	0.0	0.	219.000	0.0
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IEW	CHNIM	IFRACE
	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	DLOSS	BANK	ELEV
0	0.03	OCH	OROR	ALOR	ACH	APOR	VOL	TWA	LEFT	RIGHT
TIME	VLOB	VCH	VFCB	XNL	XNCH	XNR	WTN	ELMIN	SSFL	
SLOPE	XLDBL	XLCH	XLDBR	ITRIAL	IDC	ICBNT	CBRAR	TOPWID	ENDST	
680.00	13.61	226.31	0.0	219.00	226.59	0.28	0.0	0.0	219.90	
10200.	6701.	3116.	382.	2200.	408.	194.	0.	0.	220.70	
0.0	3.05	6.26	1.97	0.085	0.060	0.085	0.0	212.70	36.64	
0.003012	680.	680.	680.	0	0	8	0.0	521.82	558.46	

730.00	14.28	226.58	0.0	0.0	226.72	0.14	0.11	0.01	224.30	
10200.	6635.	3454.	110.	3251.	802.	115.	4.	1.	224.50	
0.00	2.04	4.31	0.96	0.085	0.060	0.085	1.050	212.30	114.52	
0.001727	50.	50.	50.	2	0	1	0.0	910.47	1024.90	

SPECIAL BRIDGE

5070 VARIABLE FLCHU OR FLCHD CN CARD SB NOT SPECIFIED

SB	XK	XKOF	COFO	ROLEN	BWC	RWP	BAREA	SS	FLCHU	FLCHD
	1.05	1.50	2.50	0.0	81.00	0.00	426.00	0.0	212.30	212.30

PRESS FLOW BECAUSE EGLWC OF 226.72 EXCEEDS 1.5 DEPTH
 PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H7	QWEIR	QPP	BAREA	FLLC	ELTRD	CLASS
239.93	226.72	0.70	8761.	1473.	426.	221.90	220.60	30.00

750.00	14.43	226.73	0.0	0.0	226.86	0.13	0.14	0.0	224.30
10200.	6688.	3389.	123.	3362.	814.	128.	6.	1.	224.50
0.01	1.99	4.16	0.96	0.085	0.060	0.085	0.058	212.30	110.40
0.001582	20.	20.	20.	2	0	6	0.0	917.50	1027.90

800.00	14.05	226.75	0.0	0.0	226.98	0.24	0.10	0.03	219.90
10200.	6796.	2978.	426.	2375.	517.	230.	10.	2.	220.70

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

T1 TRIP. 1 HORSE CREEK BASIN A. NEUSE RIVER TRIBUTARY
 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JCB NO.6855
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.003000	0.0	0.0	0.	217.000	0.0
J2	NPROF	IPLQT	PRFVS	XSECV	XSECH	FN	ALIDC	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	9.0	0.0	0.0	0.0	0.0	0.0

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	CLOSS	BANK ELEV
0	OLCB	OCH	QPCB	ALOB	ACH	ASDB	VO	TWA	LEFT/RIGHT
TIME	VLCB	VCH	VRCB	XNL	XNCH	XNR	WTN	ELMIN	STA
SLOPE	XLQBL	XLCH	XLOBR	ITRIAL	IDC	ICCNT	CDRAR	TOPWID	ENDST
680.00	11.64	224.74	0.0	217.00	224.58	0.24	0.0	0.0	219.90
5700.	3335.	2255.	110.	1425.	409.	72.	0.	0.	220.70
0.0	2.34	5.51	1.53	0.085	0.060	0.085	0.0	212.70	45.12
0.003030	680.	680.	680.	0	0	10	0.0	480.59	525.71
730.00	12.27	224.57	0.0	0.0	224.72	0.15	0.13	0.01	224.30
5700.	3036.	2564.	0.	1808.	639.	0.	2.	1.	224.50
0.00	1.68	4.17	0.09	0.085	0.060	0.085	0.059	212.30	170.36
0.002189	50.	50.	50.	2	0	1	0.0	775.60	945.96

SPECIAL BRIDGE

SB	XK	XKOP	COFO	RDLEN	BWC	BWP	BAREA	SS	ELCHU	FLCHD
	1.05	1.50	2.50	0.0	81.00	0.00	426.00	0.0	212.30	212.30

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	ELLC	ELTRD	CLASS
224.79	224.72	0.00	4415.	1320.	426.	221.90	220.60	30.00
750.00	12.35	224.65	0.0	0.0	224.79	0.14	0.08	0.0
5700.	3080.	2620.	0.	1868.	646.	1.	4.	1.
0.01	1.65	4.05	0.14	0.085	0.060	0.085	0.059	212.30
0.002041	20.	20.	20.	2	0	6	0.0	784.42
800.00	12.03	224.73	0.0	0.0	224.92	0.19	0.11	0.01
5700.	3446.	2125.	129.	1576.	426.	91.	6.	2.
0.01	2.19	4.98	1.43	0.085	0.060	0.085	0.059	212.70

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

T1 TRIB. 1 HORSE CREEK BASIN 4 NEUSE RIVER TRIBUTARY
 T2 FLOOD STUDY AT WAKE COUNTY NC M-G JOB NO. 6855 JW APRIL 1976
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	0	WSEL	F0
	-10.	3.	0.	0.	0.003000	0.0	0.0	0.	216.000	0.0
J2	NPROF	IPLQT	PREVS	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	CLOSS	BANK ELEV
0	OLCB	OCH	ORCB	ALCB	ACH	ARCB	VDL	TWA	LEFT/RIGHT
TIME	VLCB	VCH	VRCB	XNL	XNCH	XNR	WTN	PLMIN	SSTA
SLOPE	XLCL	XLCH	XLCLB	ITRIAL	IDC	ICONT	CDRAR	TOPWID	ENDST
680.00	10.96	223.66	0.0	216.00	223.88	0.22	0.0	0.0	219.00
4400.	2377.	1964.	50.	1150.	378.	44.	0.	0.	220.70
0.0	2.05	5.19	1.34	0.085	0.060	0.085	0.0	212.70	48.08
0.002985	680.	680.	680.	0	0	12	0.0	466.19	516.28

3265 DIVIDED FLOW

730.00	11.56	223.86	0.0	0.0	224.02	0.16	0.13	0.01	224.30
4400.	2008.	2392.	0.	1332.	582.	0.	2.	1.	224.50
0.00	1.51	4.11	0.0	0.085	0.060	0.085	0.059	212.30	190.01
0.002377	50.	50.	50.	0	0	1	0.0	728.98	941.00

SPECIAL BRIDGE

5070. VARIABLE ELCHU OR FLCHD ON CARD SE NOT SPECIFIED

SB	XK	XKOP	COFO	RDLN	BWC	BWP	BAREA	SS	ELCHU	FLCHD
	1.05	1.50	2.50	0.0	81.00	0.00	426.00	0.0	212.30	212.30

3265 DIVIDED FLOW

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	OWEIR	QPR	BAREA	ELLC	ELTRD	CLASS	
224.06	224.02	0.00	3149.	1257.	426.	221.90	220.60	30.00	
750.00	11.61	223.91	0.0	0.0	224.06	0.15	0.04	0.0	224.30
4400.	2036.	2364.	0.	1366.	586.	0.	3.	1.	224.50
0.01	1.49	4.03	0.0	0.085	0.060	0.085	0.058	212.30	188.57

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	TO	EG	TOPWID	STENCL	STENCR	VCH
680.00	680.00	0.0	0.0	212.70	2300.00	222.20	420.34	222.41	439.86	0.0	0.0	4.58
730.00	50.00	0.0	0.0	212.30	2300.00	222.37	434.43	222.56	557.19	0.0	0.0	3.91
750.00	20.00	220.60	221.90	212.30	2300.00	222.37	434.93	222.56	557.47	0.0	0.0	3.90
800.00	50.00	0.0	0.0	212.70	2300.00	222.53	492.45	222.68	444.33	0.0	0.0	4.03
2600.00	1800.00	0.0	0.0	217.70	2300.00	225.62	639.81	225.67	482.59	0.0	0.0	2.76
4877.00	2277.00	0.0	0.0	220.30	2300.00	230.27	347.44	230.73	198.05	0.0	0.0	5.57
4927.00	50.00	0.0	0.0	222.70	2300.00	230.23	172.64	231.31	59.64	0.0	0.0	8.33
4950.00	23.00	233.20	233.90	222.70	2300.00	230.39	181.55	231.40	59.64	0.0	0.0	8.37
5000.00	50.00	0.0	0.0	221.90	2300.00	231.58	766.73	231.62	984.62	0.0	0.0	2.46
7500.00	2500.00	0.0	0.0	230.50	1980.00	236.33	118.23	237.93	47.64	0.0	0.0	10.15
10181.00	2681.00	0.0	0.0	240.30	1980.00	250.02	471.00	250.19	276.32	0.0	0.0	3.83
10231.00	50.00	0.0	0.0	240.10	1980.00	249.97	290.79	250.40	193.24	0.0	0.0	5.36
10250.00	12.00	243.90	248.40	240.10	1980.00	250.24	298.19	250.68	51.00	0.0	0.0	5.32
10300.00	50.00	0.0	0.0	240.40	1980.00	250.60	398.73	250.86	373.41	0.0	0.0	4.80
12300.00	2000.00	0.0	0.0	247.50	1980.00	257.26	275.90	257.85	84.01	0.0	0.0	6.49
13100.00	800.00	0.0	0.0	251.20	1700.00	261.12	274.23	261.46	238.05	0.0	0.0	5.12
15570.00	2470.00	0.0	0.0	261.00	1700.00	270.60	271.39	271.00	96.09	0.0	0.0	5.97
15620.00	50.00	0.0	0.0	261.90	1700.00	271.05	349.26	271.27	79.99	0.0	0.0	3.73
15650.00	30.00	280.90	279.20	261.90	1700.00	271.06	349.57	271.27	30.00	0.0	0.0	3.72
15700.00	50.00	0.0	0.0	261.00	1700.00	271.06	305.25	271.46	101.18	0.0	0.0	5.50
17700.00	2000.00	0.0	0.0	271.40	1700.00	279.57	211.53	280.19	103.30	0.0	0.0	6.60
18900.00	1200.00	0.0	0.0	275.70	1700.00	286.94	223.14	287.53	66.86	0.0	0.0	5.15
20773.00	1879.00	0.0	0.0	287.30	1700.00	295.43	290.79	295.78	120.55	0.0	0.0	4.79
20829.00	50.00	0.0	0.0	287.40	1700.00	295.43	184.20	296.15	38.24	0.0	0.0	6.80
20850.00	21.00	298.90	297.30	287.40	1700.00	295.43	184.18	296.15	38.24	0.0	0.0	6.80
20900.00	50.00	0.0	0.0	282.50	1700.00	296.16	499.94	296.33	146.45	0.0	0.0	3.36
21900.00	1000.00	0.0	0.0	292.40	1700.00	298.14	86.26	300.29	34.35	0.0	0.0	11.77
25780.00	3800.00	0.0	0.0	308.90	1700.00	318.99	400.63	319.10	329.46	0.0	0.0	3.79

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSL	TO	EG	TOPWID	STENCL	STENCR	VCH
25830.00	50.00	0.0	0.0	310.00	1700.00	318.04	273.38	319.30	52.00	0.0	0.0	4.83
25850.00	20.00	318.80	319.50	310.00	1700.00	318.04	273.56	319.30	52.00	0.0	0.0	4.82
25900.00	50.00	0.0	0.0	309.90	1700.00	319.31	292.47	319.50	270.01	0.0	0.0	4.89
27100.00	1200.00	0.0	0.0	317.00	650.00	320.62	482.15	320.62	636.45	0.0	0.0	1.03
28100.00	1000.00	0.0	0.0	315.40	420.00	320.89	55.48	321.07	382.30	0.0	0.0	4.06
29500.00	1400.00	0.0	0.0	316.90	420.00	323.01	130.16	323.95	286.76	0.0	0.0	1.94
30375.00	875.00	0.0	0.0	323.90	420.00	328.05	19.75	329.26	20.27	0.0	0.0	8.81
30425.00	50.00	0.0	0.0	324.30	420.00	329.63	65.20	329.85	27.91	0.0	0.0	3.69
30450.00	25.00	331.50	331.70	324.30	420.00	329.65	65.58	329.86	27.93	0.0	0.0	3.68
30500.00	50.00	0.0	0.0	323.90	420.00	329.68	53.69	330.11	166.18	0.0	0.0	4.07
32500.00	2000.00	0.0	0.0	330.40	420.00	336.89	89.34	337.02	91.30	0.0	0.0	3.06

SECTION NUMBER	DISCHARGE CFS	CWSL	CWSL DIFF EACH Q	CWSL DIFF EACH SECTION	CWSL-WSELK	TOPWID	T.W. DIFF	LENGTH
680.000	2300.000	222.196	0.0	0.0	0.0	439.861	0.0	680.000
730.000	2300.000	222.369	0.0	0.173	0.0	557.186	0.0	50.000
750.000	2300.000	222.369	0.0	0.000	0.0	557.469	0.0	20.000
800.000	2300.000	222.528	0.0	0.159	0.0	444.331	0.0	50.000
2600.000	2300.000	225.615	0.0	3.088	0.0	482.593	0.0	1800.000
4677.000	2300.000	230.271	0.0	4.655	0.0	188.049	0.0	2277.000
4927.000	2300.000	230.235	0.0	-0.036	0.0	59.639	0.0	50.000
4950.000	2300.000	230.387	0.0	0.152	0.0	59.639	0.0	23.000
5000.000	2300.000	231.576	0.0	1.189	0.0	984.617	0.0	50.000
7500.000	1980.000	236.334	0.0	4.758	0.0	47.639	0.0	2500.000
10181.000	1980.000	250.019	0.0	13.685	0.0	276.316	0.0	2681.000
11231.000	1980.000	249.568	0.0	-0.051	0.0	19.243	0.0	50.000
10250.000	1980.000	250.241	0.0	0.273	0.0	51.000	0.0	19.000
10300.000	1980.000	250.604	0.0	0.363	0.0	373.408	0.0	50.000
12300.000	1980.000	257.264	0.0	6.660	0.0	84.913	0.0	2000.000
13100.000	1700.000	261.117	0.0	3.853	0.0	238.053	0.0	800.000
15570.000	1700.000	270.601	0.0	9.484	0.0	96.086	0.0	2470.000
15620.000	1700.000	271.054	0.0	0.453	0.0	79.994	0.0	50.000
15650.000	1700.000	271.058	0.0	0.004	0.0	80.004	0.0	30.000
15700.000	1700.000	271.059	0.0	0.001	0.0	101.176	0.0	50.000

17700.000	1700.000	279.567	0.0	8.508	0.0	103.303	0.0	1000.000
18900.000	1700.000	285.545	0.0	7.378	0.0	66.859	0.0	1200.000
20779.000	1700.000	295.435	0.0	6.490	0.0	120.549	0.0	1879.000
20829.000	1700.000	295.429	0.0	-0.006	0.0	38.236	0.0	50.000
20850.000	1700.000	295.429	0.0	0.0	0.0	38.235	0.0	21.000
20900.000	1700.000	296.158	0.0	0.729	0.0	146.449	0.0	50.000
21900.000	1700.000	298.137	0.0	1.978	0.0	34.354	0.0	1000.000
25780.000	1700.000	318.994	0.0	20.857	0.0	329.461	0.0	3800.000
25830.000	1700.000	318.941	0.0	-0.053	0.0	52.000	0.0	50.000
25850.000	1700.000	318.941	0.0	0.000	0.0	52.000	0.0	20.000
25900.000	1700.000	318.309	0.0	0.368	0.0	270.005	0.0	50.000
27100.000	650.000	320.616	0.0	1.308	0.0	636.453	0.0	1200.000
28100.000	420.000	320.892	0.0	0.275	0.0	382.302	0.0	1000.000
29500.000	420.000	323.510	0.0	3.019	0.0	286.759	0.0	1400.000
30375.000	420.000	328.054	0.0	4.144	0.0	20.268	0.0	875.000
30425.000	420.000	329.634	0.0	1.580	0.0	27.906	0.0	50.000
30450.000	420.000	329.647	0.0	0.013	0.0	27.929	0.0	25.000
30500.000	420.000	329.883	0.0	0.235	0.0	166.177	0.0	50.000
32500.000	420.000	326.894	0.0	7.011	0.0	91.298	0.0	2000.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.0	0.0	176.300	0.0