

THIS IS A STORAGE DATASET FOR GASTON COUNT FIA STUDY  
 STREAMS INCLUDED ARE DUHARTS, CALAWBA, CATAB2, CATAB4, CATAB1, LUTZ,  
 LILONG, LOLONG, UPLONG

DUHARTS JOB F:TI.A25.P01199.DMC.M=1,T=2,P=200,PRTY=0

//\*PROCLIB=RTI.MG.PROCLIB

// EXEC HEC2

//SYSIN DD \*

T1 DUHARTS CREEK

T2 GASTON CO. FIS JOB # 207022

T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	-1	4								570.16
J2	0		-1							
J3	39	39	40	41	43	42	1	2	26	53
J3	54	25	50	0	200					
NC	.045	.050	.040	.1	.3					
QT	5	2410	3710	4210	5300	4210				
ET						-10.4				
X1	1541	46	1176	1977	1541	1541	1541			
GR	581.6	1000	578.3	1100	577	1176	573.3	1188	572.9	1200
GR	568.4	1229	566.7	1250	567.2	1275	566.4	1300	567.2	1325
GR	566.4	1350	567.9	1375	567.7	1400	565.4	1425	565.3	1450
GR	566.3	1475	567	1500	567.3	1525	568.2	1550	567.9	1575
GR	567.8	1600	568	1625	568.2	1650	568	1675	567.9	1700
GR	568	1725	568.2	1750	568.8	1775	568	1800	568	1825
GR	568	1850	573.1	1900	574.7	1935	575.7	1977	576.3	2000
GR	576.7	2100	576.6	2200	575.5	2238	566.5	2238	566.4	2263
GR	568.3	2263	566.9	2285	575.8	2285	575.3	2301	574.8	2335
GR	581.7	2341								
X1	1557			16	16	16			0.11	
X1	1573	33	1343	1537	16	16	16			
GR	582	1000	578.2	1100	577.3	1200	577	1300	574.4	1342.9
GR	574.4	1343	570.3	1366.4	567.4	1381.7	574.5	1381.7	574.6	1384.7
GR	567.5	1384.7	566.9	1400	565.5	1440	565.4	1443.2	567.2	1495.2
GR	574.5	1495.2	574.5	1498.2	567.2	1498.2	567.4	1500	569.4	1519.7
GR	574.4	1537	574.4	1537.1	576.4	1600	576.5	1700	576.6	1800
GR	576.5	1900	576.5	2000	576.3	2100	576	2200	574.9	2300
GR	575.4	2400	575.2	2431	580.5	2440				
X1	1574			1	1	1				
BT	22	1000	582	1100	578.2			1200	577.3	
BT	1300	577	1342.9	577.1		1343	577.1	574.4		1400
BT	577.3	574.6	1440	577.3	574.6	1500	577.2	574.5	1537	577.1
BT	574.4	1537.1	577.1	1600	576.4			1700	576.5	
BT	1800	576.6	1900	576.5		2000	576.5			2100
BT	576.3		2200	576		2300	574.9	2400		575.4
BT		2431	575.2	2440	580.5					
X1	1590	33	1343	1537	16	16	16			
BT	22	1000	582	1100	578.2			1200	577.3	
BT	1300	577	1342.9	577.1		1343	577.1	574.4		1400
BT	577.3	574.6	1440	577.3	574.6	1500	577.2	574.5	1537	577.1
BT	574.4	1537.1	577.1	1600	576.4			1700	576.5	

BT	1800	576.6		1900	576.5		2000	576.5		2100
BT	576.3		2200	576		2300	574.9		2400	575.4
BT		2431	575.2		2440	580.5				
GR	582	1000	578.2	1100	577.3	1200	577	1300	574.4	1342.9
GR	574.4	1343	570.3	1360.4	567.4	1381.7	574.5	1381.7	574.6	1384.7
GR	567.5	1384.7	566.9	1400	565.5	1440	565.4	1443.2	567.2	1495.2
GR	574.5	1495.2	574.5	1495.2	567.2	1498.2	567.0	1500	569.4	1519.7
GR	574.4	1537	574.4	1537.1	576.4	1600	576.5	1700	576.6	1800
GR	576.5	1900	576.5	2000	576.3	2100	576	2200	574.9	2300
GR	575.4	2400	575.2	2431	580.5	2440				
X1	1591				1	1	1			
X1	1615	27	1187	1591	25	25	25			
GR	585.9	1000	580	1100	577	1169	576.2	1187	568.4	1205
GR	568.1	1225	567.9	1250	568.3	1275	567.7	1300	567.1	1325
GR	566.7	1350	566.9	1375	566.3	1389	565.9	1400	565.3	1425
GR	565.8	1450	567.9	1475	568.3	1500	568.6	1525	568.7	1550
GR	568.7	1568	574.3	1591	575.9	1700	579.3	1744	579.7	1772
		11								
X1	1641				25	25	25			
NC	.030	.050	.040							
X1	2280	25	1186	1238	639	639	639			
GR	580.4	1000	579.8	1006	579.8	1014	579.6	1023	579.2	1025
GR	579.6	1025.5	579	1028	568.8	1046	568.5	1050	568.4	1100
GR	568.7	1150	569.5	1186	568.6	1189	564.2	1196	563.5	1200
GR	564	1211	565.4	1227	568.5	1236	570.4	1238	569.4	1300
GR	568.8	1350	569.6	1400	568	1436	569.5	1450	579.6	1500
X1	2290				10	10	10			
X1	2300	67	1031	1476	10	10	10			
GR	580.4	1000	579.8	1007	579.9	1015	579.5	1024	579.3	1026
GR	579.7	1026.1	579.7	1026.5	576.5	1030.9	576.4	1031	572.9	1031
GR	570.4	1050	569.3	1050.5	573	1050.5	573	1061.5	569.3	1061.5
GR	567.9	1100	566.8	1130.8	573	1130.8	573	1133.8	566.8	1133.8
GR	566.2	1135	567.6	1150	570.2	1170.5	573.1	1178.5	573.1	1181.5
GR	570.2	1141.5	568.4	1187	564.2	1200	564.6	1202.5	573.1	1202.5
GR	573.1	1205.5	564.6	1205.5	571.1	1234	569.9	1250	569.9	1250.3
GR	573	1250.3	573	1253.8	569.9	1253.9	569.5	1298.5	573	1298.5
GR	573	1300	573	1301.5	569.5	1301.5	568.7	1347.3	573	1347.3
GP	573	1348.8	568.7	1348.8	568.7	1350	569	1370.3	573	1370.3
GR	573	1373.8	569	1373.8	569.8	1400	569.6	1418.5	572.9	1418.5
GR	572.9	1421.5	569.6	1421.5	569.6	1450	569.6	1467.3	572.7	1467.3
GR	572.7	1468.8	569.6	1468.8	572.7	1476	576.2	1476	576.1	1476.1
GR	576.1	1493	581.7	1510						
X1	2301				1	1	1			
BT	22	1000	580.4		1007	579.8		1015	579.9	
BT	1024	579.5		1026	579.3		1026.1	579.7		1026.5
BT	579.7		1030.9	576.4		1031	576.4	572.9	1050	576.5
BT	573	1100	574.5	573	1150	576.5	573	1200	576.6	573.1
BT	1250	576.5	573	1300	576.5	573	1350	576.5	573	1400
BT	576.5	573	1450	576.3	572.8	1476	576.2	572.7	1476.1	576.2
BT		1493	576.1		1510	581.7				

X1	2302	67	1031	1476	1	1	1			
BT	22	1000	580.4		1007	579.8		1015	579.9	
BT	1024	579.5		1026	579.3		1026.1	579.7	1026.5	
BT	579.7		1030.9	576.4		1031	576.4	572.9	1050	576.5
BT	573	1100	576.5	573	1150	576.5	573	1200	576.6	573.1
BT	1250	576.5	573	1300	576.5	573	1350	576.5	573	1400
BT	576.5	573	1450	576.3	572.8	1476	576.2	572.7	1476.1	576.2
BT		1493	576.1		1510	581.7				
GR	580.4	1000	579.8	1007	579.9	1015	579.5	1024	579.3	1026
GR	579.7	1026.1	579.7	1026.5	576.5	1030.9	576.4	1031	572.9	1031
GR	570.4	1050	569.3	1050.5	573	1058.5	573	1061.5	569.3	1061.5
GR	567.9	1100	566.8	1130.8	573	1130.8	573	1133.8	566.8	1133.8
GR	566.2	1135	567.6	1150	570.2	1178.5	573.1	1170.5	573.1	1181.5
GR	570.2	1161.5	568.4	1187	564.2	1200	564.6	1202.5	573.1	1202.5
GR	573.1	1205.5	564.6	1205.5	571.1	1234	569.9	1250	569.9	1250.3
GR	573	1250.3	573	1253.8	569.9	1253.8	569.5	1298.5	573	1298.5
GR	573	1300	573	1301.5	569.5	1301.5	568.7	1347.3	573	1347.3
GR	573	1348.8	568.7	1348.8	568.7	1350	569	1370.3	573	1370.3
GR	573	1373.8	569	1373.8	569.8	1400	569.6	1418.5	572.9	1418.5
GR	572.9	1421.5	569.6	1421.5	569.6	1450	569.6	1467.3	572.7	1467.3
GR	572.7	1468.8	569.6	1468.8	572.7	1476	576.2	1476	576.1	1476.1
GR	576.1	1493	581.7	1510						
X1	2303				1	1	1			
X1	2313	25	1186	1238	10	10	10		0.07	
GR	580.4	1000	579.8	1006	579.8	1014	579.6	1023	579.2	1025
GR	579.6	1025.5	579	1028	568.8	1046	568.5	1050	568.4	1100
GR	568.7	1150	569.5	1186	568.6	1189	564.2	1196	563.5	1200
GR	564	1211	565.4	1227	568.6	1236	570.4	1238	569.4	1300
GR	568.8	1350	569.6	1400	568	1436	569.5	1450	579.6	1500
X1	2323				10	10	10		-0.07	
X1	3190	21	332	392	3190	3190	3190			
GR	585.7		578.2	24	576	49	569.4	63	569.4	128
GR	569.3	149	570.1	212	570.2	249	572.3	308	571.4	332
GR	568.7	339	569.3	364	567.6	385	567.8	389	568.3	390
GR	571.5	392	570	440	571.1	469	571	505	579.2	523
GR	589.9	545								
X1	4190	15	1049	1150	1000	1000	1000			
GR	586.1	1000	584.1	1022	576.5	1032	575.2	1049	571.4	1062
GR	569	1067	568.5	1068	564.7	1098	564.2	1118	564.3	1132
GR	568	1146	568.7	1147	573.3	1160	577.2	1165	581.4	1188
X1	4215				25	25	25			
X1	4240	17	1109.8	1110.2	25	25	25		0.1	
GR	586.1	992	584.1	1014	576.5	1024	575.2	1041	571.4	1064
GR	569	1059	568.5	1060	564.7	1090	564.4	1109.8	564.2	1110
GR	564.4	1110.2	564.3	1124	563	1138	568.7	1139	573.3	1152
GR	577.2	1157	581.4	1180						
SB		4.5	2.5		0.4		0.03		564.2	564.2
X1	4290				50	50	50			
X2			1	560.7	570.2					
BT	17	1000	586		1022	584.1		1032	576.4	

BT	1059	572.8		1066	570.5		1097	570.7		1109.8
BT	570.6	564.5	1119	570.6	564.7	1110.2	570.6	564.5	1117	570.5
BT		1132	570.2		1146	571.5		1154	571.7	
BT	1159	573.1		1167	577.1		1184	581.5		1227
BT	581									
X1	4315	15	1049	1160	25	25	25		0.2	
GR	586.1	1000	584.1	1022	576.5	1032	575.2	1049	571.4	1062
GR	569	1067	568.5	1068	574.7	1098	564.2	1118	564.3	1132
GR	568	1146	568.7	1147	573.3	1160	577.2	1165	581.4	1188
X1	4340				25	25	25			
QT	5	2150	3350	3810	4840	3810				
ET	5					7.1	22.5	103.5		
X1	4900	12	46	94	560	560	560			
GR	583.1		578.6	13	576.7	34	573	46	570.4	48
GR	567.6	51	567.4	50	569	66	569.3	83	570.4	86
GR	574.9	94	583.3	122						
ET	5					7.1	20.4	89.7		
X1	6891	12	38	75	1991	1991	1991			
GR	604		595.7	20	592.3	28	590.2	38	588.9	40
GR	588.4	41	588.2	53	588.6	66	588.9	68	592.5	75
GR	594	86	603.4	109						
ET	5					-10.4				
X1	8291	13	1030	1074	1400	1400	1400			
GR	603.1	1000	597.4	1015	597.1	1030	589.9	1036	588.3	1048
GR	587.4	1054	588.3	1067	588.6	1068	595.2	1074	595.8	1084
GR	596.9	1100	598.7	1117	602.9	1136				
ET	5					7.1	1065.7	1113.5		
X1	10410	19	1071	1115	2119	2119	2119			
GR	610.7	1000	616.3	1020	613.5	1050	612.2	1058	610.7	1065
GR	610	1071	603.5	1077	603.2	1080	602.8	1087	602.7	1096
GR	603.2	1105	611.9	1115	612	1165	612.6	1215	612.9	1265
GR	613.1	1315	614.4	1365	618.5	1395				
ET	5					7.1	1060.8	1114.7		
X1	10435				25	25	25		0.20	
ET	5					-10.4				
X1	10460	26	1107	1195	25	25	25			
GR	622.7	1000	619.1	1042	618.2	1106	614.2	1106.9	613.7	1107
GR	609.7	1131	603.7	1135.3	616.2	1135.3	616.2	1136.3	603.7	1136.3
GR	603.7	1141	603.3	1151	603.1	1157	603.7	1165	603.7	1165.2
GR	616.2	1165.2	616.2	1166.2	603.7	1166.2	609.6	1173	612.4	1184
GR	613.1	1195	613.6	1195.1	618.3	1196	619	1250	620.5	1300
GR	622.7	1350								
X1	10461				1	1	1			
BT	12	1000	622.7		1042	619.1		1106	618.2	
BT	1106.9	618.2		1107	618.2	616.2	1151	618.2	616.2	1195
BT	618.3	616.3	1195.1	618.3		1196	618.3		1250	619
BT		1300	624.5		1350	622.7				
X1	10479	26	1107	1195	19	18	18			
BT	12	1000	622.7		1042	619.1		1106	618.2	
BT	1106.9	618.2		1107	618.2	616.2	1151	618.2	616.2	1195

BT 618.3	616.3	1195.1	618.3		1196	618.3		1250	519
BT	1300	620.5		1350	622.7				
GR 622.7	1000	619.1	1042	618.2	1106	614.2	1106.9	613.7	1107
GR 609.7	1131	603.7	1135.3	618.2	1135.3	616.2	1136.3	603.7	1136.3
GR 603.7	1141	603.3	1151	603.1	1157	603.7	1165	603.7	1165.2
GR 616.2	1165.2	616.2	1166.2	603.7	1166.2	609.6	1173	612.4	1184
GR 613.1	1195	613.6	1195.1	618.3	1196	619	1250	620.5	1300
GR 622.7	1350								
X1 10480				1	1	1			
NC .080	.050	.045							
NC .090	.060	.050							
ET 5					7.1	1108.6	1181.6		
X1 10495	17	1108	1150	15	15	15			
GR 618.6	1000	616.1	1031	615.1	1076	614.5	1100	614	1108
GR 607.7	1116	603.8	1125	603.1	1133	603.8	1140	604.1	1146
GR 606.2	1150	607.4	1155	609.3	1159	610.7	1171	613.6	1182
GR 616.3	1265	618.1	1282						
ET 5					7.1	1108.4	1185.4		
X1 10510				15	15	15			
ET 5					7.1	1051.0	1131.0		
X1 12688	17	1174	1115	2178	2178	2178			
GR 644.8	1000	640.8	1022	637.9	1035	634.4	1039	636.9	1043
GR 636.8	1046	631.8	1054	630.7	1064	629.2	1074	626.5	1077
GR 625.3	1082	625.9	1091	625.1	1094	626.5	1101	629.8	1115
GR 630.9	1122	644.2	1165						
ET 5					7.1	1044.5	1176.5		
X1 14438	15	1088	1128	1750	1750	1750			
GR 655	1000	648	1036	641.8	1064	641.6	1088	637.8	1089
GR 635.8	1091	634.9	1101	634.8	1110	635.8	1114	636.8	1120
GR 639.9	1128	640.6	1134	643.6	1142	645.2	1168	652.6	1236
ET 5					7.1	1054.4	1147.4		
X1 14463				25	25	25		1.65	
ET 5					-10.4				
X1 14488	29	1143	1231	25	25	25			
GR 659.4	1000	655.6	1050	654.7	1100	654.2	1142	649	1142.9
GR 648.4	1143	645.6	1153	644.7	1162.3	640.7	1167.4	640	1171.5
GR 652.6	1171.5	652.6	1172.5	640	1172.5	638.2	1177.1	638.1	1187
GR 638.1	1201.7	652.6	1201.7	652.6	1202.7	638.1	1202.7	638.2	1203.1
GR 640.6	1208.2	646.2	1211.5	647.7	1218.8	652.3	1231	652.5	1231.1
GR 654.1	1232	654.4	1250	655.8	1300	659	1350		
X1 14489				1	1	1			
BT 13	1000	659.4		1050	655.6		1100	654.7	
BT 1142	654.2		1142.9	654.1		1143	654.1	652.6	1187
BT 654.1	652.6	1231	654.1	652.6	1231.1	654.1		1232	654.1
BT	1250	654.4		1300	655.8		1350	659	
X1 14512	29	1143	1231	23.3	23.3	23.3			
BT 13	1000	659.4		1050	655.6		1100	654.7	
BT 1142	654.2		1142.9	654.1		1143	654.1	652.6	1187
BT 654.1	652.6	1231	654.1	652.6	1231.1	654.1		1232	654.1
BT	1250	654.4		1300	655.8		1350	659	

GR	659.4	1000	655.6	1050	654.7	1100	654.2	1142	649	1142.9
GR	648.4	1143	645.6	1153	644.7	1162.3	640.7	1167.4	640	1171.5
GR	652.6	1171.5	652.6	1172.5	649	1172.5	638.2	1177.1	638.1	1187
GR	638.1	1201.7	652.6	1201.7	652.6	1202.7	638.1	1202.7	638.2	1203.1
GR	640.6	1208.2	646.2	1211.5	647.7	1218.8	652.3	1231	652.5	1231.1
GR	654.1	1232	654.4	1250	655.8	1300	659	1350		
X1	14513				1	1	1			
NC	.070	.050	.045							
ET	5					7.1	1043.5	1178.0		
X1	14538	17	1114	1149	25	25	25		1.3	
GR	657.1	1000	654.9	1013	647.4	1034	645.4	1071	642.4	1100
GR	642.2	1114	639.2	1119	638.8	1121	636.8	1123	635.5	1131
GR	636.8	1137	637.5	1143	640.7	1149	642.1	1166	646.9	1178
GR	650.7	1200	656.9	1262						
ET	5					7.1	1030.3	1188.6		
X1	14563				25	25	25		-1.3	
QT	5	2050	3150	3580	4530	3580				
ET	5					-10.4				
X1	17288	23	1313	1342	2725	2725	2725			
GR	661.8	1000	659.5	1050	656.9	1100	652.8	1150	650.5	1200
GR	649.9	1250	650.4	1300	650.8	1307	651.6	1309	650.4	1313
GR	643.8	1322	642.8	1327	643.8	1331	647.4	1337	651	1342
GR	649.4	1400	630.3	1450	650.1	1500	650.7	1550	650.7	1600
GR	650.7	1650	656.5	1700	662.4	1723				
EJ										
T1										
T2										
T3										
J1	-10	6							571.16	
J2	15		-1							
EJ										

ER

CATAWBA JOB RTI.A25.P01198,LP,M=1,T=2,P=200,PRTY=1

//\*PROCLIB=RTI.MG.PROCLIB

// EXEC HEC2

//SYSIN DD \*

T1 CATAWBA CREEK

T2 GASTON CO. FIS JOB # 207022

T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	-1	4							585.8	
J2	0		-1							
J3	38	39	40	41	43	42	1	2	26	53
J3	54	25	50	0	200					
NC	.110	.110	.045	.1	.3					
QT	5	2670	4280	4890	7580	4890				
ET	5	0	0	0	0	-10.4				
X1	25725	19	1671	1727	25725	25725	25725			

GR 589.7	1000	587.9	1100	586.4	1200	582.9	1300	582.4	1400
GR 583.3	1500	583.4	1600	583.4	1665	581.1	1671	578	1673
GR 573.5	1679	575.7	1694	576.6	1719	578	1725	583.8	1727
GR 584.6	1800	584.6	1900	587.6	2000	589.7	2084		
X1 25740	0			15.0	15.0	15.0		0.73	
X1 25755	28	1556	1674	15	15	15		0.00	
GR 591.5	1000	591.5	1100	592	1200	592.2	1300	592.4	1400
GR 592.9	1500	593.2	1555	585.2	1556	585	1568	578.5	1583
GR 575.1	1594	591.4	1594	591.4	1595	575.1	1595	574.9	1611
GR 575	1615	575.5	1631	575.1	1634	591.5	1634	591.5	1635
GR 575.1	1635	575.8	1645	583.7	1651	588.3	1674	593.3	1675
GR 593.1	1700	594.3	1800	596.7	1900				
NC .060	.060	.045							
X1 25755	0			1	1	1		0.00	
BT 14	1000	591.5	0	1100	591.5	0	1200	592	0
BT 1300	592.2	0	1400	592.4	0	1500	592.9	0	1555
BT 593.2	0	1556	593.2	591.4	1615	593.2	591.5	1674	593.2
BT 591.5	1675	593.3	0	1700	593.1	0	1800	594.3	0
BT 1900	596.7	0							
X1 25784	28	1556	1674	28	28	28		0.00	
BT 14	1000	591.5	0	1100	591.5	0	1200	592	0
BT 1300	592.2	0	1400	592.4	0	1500	592.9	0	1555
BT 593.2	0	1556	593.2	591.4	1615	593.2	591.5	1674	593.2
BT 591.5	1675	593.3	0	1700	593.1	0	1800	594.3	0
BT 1900	596.7	0							
GR 591.5	1000	591.5	1100	592	1200	592.2	1300	592.4	1400
GR 592.9	1500	593.2	1555	585.2	1556	585	1568	578.5	1583
GR 575.1	1594	591.4	1594	591.4	1595	575.1	1595	574.9	1611
GR 575	1615	575.5	1631	575.1	1634	591.5	1634	591.5	1635
GR 575.1	1635	575.8	1645	583.7	1651	588.3	1674	593.3	1675
GR 593.1	1700	594.3	1800	596.7	1900				
NC .050	.110	.045							
X1 25785	0			1	1	1		0	
X1 25803	16	1427	1473.5	17.5	17.5	17.5		1.65	
GR 586.8	1000	583.2	1100	582.4	1200	580.7	1275	573.6	1279
GR 581.1	1283	581.8	1300	583.5	1400	584.6	1427	577.5	1437
GR 571.6	1445	574.6	1457	577.5	1472	580.8	1473.5	583.6	1500
GR 580.8	1515								
X1 25820	0			17.5	17.5	17.5		-1.65	
NC .075	.085	.045							
ET					7.1	1168	1468		
X1 28900	28	1261	1334	3080	3080	3080			
GR 588.7	1000	593.7	1013	588.3	1030	588.5	1100	588.4	1121
GR 586.9	1126	588.4	1132	589.3	1200	588.9	1265	583	1273
GR 589.5	1277	589.7	1281	584.6	1291	583.5	1296	582.2	1297
GR 582.9	1309	579.9	1321	583.5	1322	588.9	1334	591.5	1346
GR 590.2	1400	590	1495	589.2	1496	587	1504	589.1	1507
GR 591.5	1550	593.4	1565	588.6	1595				
NC .090	.100	.045							
QT 5	2520	4040	4630	7040	4630				

ET					-5.4					
X1 31780	18	1136	1195	2880	2880	2880				
GR 606.3	1000	597.2	1048	593.3	1070	595.4	1075	594.3	1100	
GR 594.3	1114	592.6	1119	595.2	1124	595.7	1136	588.5	1143	
GR 587	1143	586.4	1157	588.5	1169	589.9	1187	595.7	1195	
GR 593.8	1229	599.3	1250	604.5	1270					
NC .110	.110	.045								
X1 33325	13	1092	1162	1545	1545	1545				
GR 611.1	1000	606.8	1035	602.1	1056	597.7	1078	598.2	1092	
GR 589.1	1104	587.1	1112	588.2	1125	589.1	1142	600.2	1162	
GR 601.6	1200	600.8	1250	604.7	1280					
ET					-10.4					
X1 33363	0			38	38	38		0.93		
X1 33400	19	1108.8	1188.2	37	37	37		0.00		
GR 612.9	1000	609.1	1050	606.6	1100	606.1	1107.8	607.6	1107.9	
GR 602.6	1108.8	594.8	1118.2	590.5	1126.2	588.9	1142.2	590	1156.2	
GR 592.5	1168.2	599.6	1188.2	604.9	1189.1	603.4	1189.2	602.9	1200	
GR 602.9	1250	605	1300	607.1	1350	609.5	1400			
NC .060	.060	.045								
X1 33401	0			1	1	1		0.00		
BT 14	1000	612.9	0	1050	609.1	0	1100	606.6	0	
BT 1107.8	606.1	0	1107.9	607.6	0	1108.8	607.5	603.2	1188.2	
BT 604.9	600.6	1189.1	604.9	0	1189.2	603.4	0	1200	602.9	
BT 0	1250	602.9	0	1300	605	0	1350	607.1	0	
BT 1400	609.5	0								
X1 33419	19	1108.8	1188.2	18.1	18.1	18.1		0.00		
BT 14	1000	612.9	0	1050	609.1	0	1100	606.6	0	
BT 1107.8	606.1	0	1107.9	607.6	0	1108.8	607.5	603.2	1188.2	
BT 604.9	600.6	1189.1	604.9	0	1189.2	603.4	0	1200	602.9	
BT 0	1250	602.9	0	1300	605	0	1350	607.1	0	
BT 1400	609.5	0								
GR 612.9	1000	609.1	1050	606.6	1100	606.1	1107.8	607.6	1107.9	
GR 602.6	1108.8	594.8	1118.2	590.5	1126.2	588.9	1142.2	590	1156.2	
GR 592.5	1168.2	599.6	1188.2	604.9	1189.1	603.4	1189.2	602.9	1200	
GR 602.9	1250	605	1300	607.1	1350	609.5	1400			
NC .110	.110	.070								
X1 33420	0			1	1	1		0.00		
X1 33485	12	1055	1111	65	65	65		0.22		
GR 609.2	1000	593.9	1033	598	1055	590	1053	589.2	1065	
GR 588.5	1094	590	1103	593.9	1111	598.2	1134	601.7	1176	
GR 601.1	1199	607.5	1211							
ET	5				7.1	1047	1120			
X1 33550	0			65	65	65		-0.22		
NC .100	.110	.045								
QT 5	2460	3910	4470	6340	4470					
ET					-6.4					
X1 36340	12	1056	1108	4790	4790	4790				
GR 617.6	1000	609.2	1032	606.8	1043	606.6	1056	596.9	1060	
GR 595.8	1073	596	1091	596.9	1096	603.6	1101	607.3	1108	
GR 606.1	1129	613.5	1156							



NC	.075	.080	.042							
ET					-4.4					
X1 40230	14	1089	1147	1890	1890	1090				
GR 616.5	1000	612.2	1027	611.2	1059	612.5	1071	611.4	1089	
GR 605.2	1095	600.8	1103	597.2	1105	595.7	1114	598	1129	
GR 600.5	1135	610.9	1147	612.9	1200	614.9	1250			
QT	5	2390	3810	4360	6130	4360				
X1 40246	0			16.0	16.0	16.0		2.43		
X1 40252	25	1182	1259.1	16	16	16		0.00		
GR 625.4	1000	622.7	1050	621.3	1100	618.9	1150	620.6	1181	
GR 616.6	1152	612.8	1193.8	604.7	1201.4	619.5	1201.4	619.5	1202.4	
GR 604.7	1202.4	602.5	1209.3	601	1220.6	600.6	1223.9	602.8	1236.2	
GR 605.3	1240.4	619.5	1240.4	619.5	1241.4	605.3	1241.4	609	1246.2	
GR 617.1	1259.1	620.8	1260.1	621.3	1300	623.1	1350	625.4	1388	
NC	.060	.060	.045							
X1 40263	0			1	1	1		0.00		
BT	12	1000	625.4	0	1050	622.7	0	1100	621.3	0
BT	1150	618.9	0	1101	620.6	0	1182	620.7	619.5	1220.6
BT 620.7	619.5	1259.1	620.8	619.6	1260.1	620.3	0	1300	621.3	
BT	0	1350	623.1	0	1388	625.4	0			
X1 40286	25	1182	1259.1	23.2	23.2	23.2		0.00		
BT	12	1000	625.4	0	1050	622.7	0	1100	621.3	0
BT	1150	618.9	0	1181	620.6	0	1182	620.7	619.5	1220.6
BT 620.7	619.5	1259.1	620.8	619.6	1260.1	620.8	0	1300	621.3	
BT	0	1350	623.1	0	1388	625.4	0			
GR 625.4	1000	622.7	1050	621.3	1100	618.9	1150	620.6	1181	
GR 616.6	1182	612.8	1193.8	604.7	1201.4	619.5	1201.4	619.5	1202.4	
GR 604.7	1202.4	602.5	1209.3	601	1220.6	600.6	1223.9	602.8	1236.2	
GR 605.3	1240.4	619.5	1240.4	619.5	1241.4	605.3	1241.4	609	1246.2	
GR 617.1	1259.1	620.8	1260.1	621.3	1300	623.1	1350	625.4	1388	
NC	.090	.090	.045							
X1 40287	0			1	1	1		0.00		
X1 40309	15	1105	1161	21.4	21.4	21.4		0.23		
GR 617.1	1000	614	1053	612.5	1063	610.7	1100	610	1105	
GR	602	1113	603.1	1120	601.1	1134	602	1147	605.6	1154
GR	610	1161	612.8	1170	620.3	1190				
ET	5				7.1	1098	1167			
X1 40330	0			21.4	21.4	21.4		-0.23		
NC	.110	.110	.045							
ET	5				7.1	1070	1145			
X1 41700	15	1077	1137	1370	1370	1370				
GR 617.3	1000	617.3	1025	614.8	1044	615.2	1066	615.1	1077	
GR 606.2	1087	605.9	1089	604.8	1103	605.9	1126	608.8	1130	
GR 613.1	1137	614.5	1144	615	1200	619.3	1216	616.1	1224	
NC	.100	.070	.045							
QT	5	2120	3410	3920	5360	3920				
ET					-7.1	1000	1245			
X1 46900	17	1161	1219	5200	5200	5200				
GR 620.4	1000	630.9	1073	631.8	1100	631.7	1114	628.3	1123	
GR 629.8	1161	626.5	1165	625	1171	620.3	1177	618.5	1186	

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
 \*\*\*\*\*

T1 DUHARTS CREEK  
 T2 GASTON CO. FIS JOB # 207022  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-1.	4.	0.	0.	0.0	0.0	0.0	0.	633.680	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	39.000	40.000	41.000	43.000	42.000	1.000	2.000	26.000	53.000
	54.000	25.000	50.000	0.0	200.000	0.0	0.0	0.0	0.0	0.0
NC	0.090	0.080	0.050	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	2150.000	3350.000	3810.000	4840.000	3810.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1051.000	1131.000	0.0	0.0
X1	12688.000	17.000	1074.000	1115.000	2178.000	2178.000	2178.000	0.0	0.0	0.0
GR	644.800	1000.000	640.800	1022.000	637.900	1035.000	634.400	1039.000	636.900	1043.000
GR	636.800	1046.000	631.800	1054.000	630.700	1064.000	629.200	1074.000	626.500	1077.000
GR	625.300	1082.000	625.900	1091.000	625.100	1094.000	626.500	1101.000	629.800	1115.000
GR	630.900	1122.000	644.200	1165.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1044.500	1176.500	0.0	0.0
X1	14438.000	15.000	1088.000	1128.000	1750.000	1750.000	1750.000	0.0	0.0	0.0
GR	655.000	1000.000	648.000	1036.000	641.800	1064.000	641.600	1088.000	637.800	1089.000
GR	635.800	1091.000	634.900	1101.000	634.800	1110.000	635.800	1114.000	636.800	1120.000
GR	639.900	1128.000	640.600	1134.000	643.600	1142.000	645.200	1168.000	652.600	1236.000
ET	5.000	0.0	0.0	0.0	0.0	7.100	1054.400	1147.400	0.0	0.0
X1	14463.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	1.650	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	14488.000	29.000	1143.000	1231.000	25.000	25.000	25.000	0.0	0.0	0.0
GR	659.400	1000.000	655.600	1050.000	654.700	1100.000	654.200	1142.000	649.000	1142.900
GR	648.400	1143.000	645.600	1153.000	644.700	1162.300	640.700	1167.400	640.000	1171.500
GR	652.600	1171.500	652.600	1172.500	640.000	1172.500	638.200	1177.100	638.100	1187.000
GR	638.100	1201.700	652.600	1201.700	652.600	1202.700	638.100	1202.700	638.200	1203.100
GR	640.600	1208.200	646.200	1211.500	647.700	1218.800	652.300	1231.000	652.500	1231.100
GR	654.100	1232.000	654.400	1250.000	655.800	1300.000	659.000	1350.000	0.0	0.0



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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
 \*\*\*\*\*

T1 DUHARTS CREEK  
 T2 GASTON CO. FIS JOB # 207022  
 T3 100 YEAR FLOODWAY

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	0	WSEL	F0
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	633,680	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

\*PROF 2

CCHV= 0.100 CEHV= 0.300

\*SECNO 12688.000

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	QLOSS	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=	1051.0	1131.0	TYPE=	1	TARGET=	80.000			
12688.00	0.58	633.68	0.0	633.68	635.69	2.01	0.0	0.0	629.20
3810.	253.	3417.	140.	64.	286.	36.	0.	0.	629.80
0.0	3.92	11.94	3.91	0.090	0.050	0.080	0.0	625.10	1051.00
0.012813	2178.	2178.	2178.	0	0	0	0.0	79.99	1130.99

\*SECNO 14438.000

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	1044.5	1176.5	TYPE=	1	TARGET=	132.000			
14438.00	11.33	646.13	0.0	646.13	646.95	0.82	11.14	0.12	641.60
3810.	363.	3149.	298.	149.	399.	117.	21.	4.	639.90
0.07	2.44	7.89	2.55	0.090	0.050	0.080	0.050	634.80	1044.50
0.003794	1750.	1750.	1750.	4	0	0	0.0	132.00	1176.50

\*SECNO 14463.000

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	1054.4	1147.4	TYPE=	1	TARGET=	53.000			
14463.00	9.14	645.59	0.0	645.59	647.39	1.80	0.15	0.30	643.25
3810.	175.	3492.	142.	64.	311.	38.	21.	4.	641.55
0.07	2.73	11.22	3.76	0.090	0.050	0.080	0.050	636.45	1054.40

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
 \*\*\*\*\*

NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

100 YEAR FLOOD WATER SUR

SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELKTN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
12688.000	2178.00	0.0	0.0	3810.00	625.10	633.68	0.0	11.94	1050.99	1130.99	386.48	0.0
12688.000	2178.00	0.0	0.0	3810.00	625.10	633.68	0.0	11.94	1051.00	1130.99	386.48	0.0
14438.000	1750.00	0.0	0.0	3810.00	634.80	646.13	0.0	7.89	1044.44	1176.57	664.39	0.0
14438.000	1750.00	0.0	0.0	3810.00	634.80	646.13	0.0	7.89	1044.50	1176.50	664.40	-0.00
14463.000	25.00	0.0	0.0	3810.00	636.45	645.59	0.0	11.22	1054.33	1147.54	413.36	0.0
14463.000	25.00	0.0	0.0	3810.00	636.45	645.59	0.0	11.22	1054.40	1147.40	413.34	-0.00
* 14488.000	25.00	0.0	0.0	3810.00	638.10	645.52	645.52	13.06	1153.86	1211.10	291.76	0.0
* 14488.000	25.00	0.0	0.0	3810.00	638.10	645.52	645.52	13.06	1153.86	1211.10	291.74	-0.00
14489.000	1.00	654.10	652.60	3810.00	633.10	646.18	0.0	11.56	1150.94	1211.49	329.51	0.0
14489.000	1.00	654.10	652.60	3810.00	638.10	646.17	0.0	11.57	1150.95	1211.48	329.27	-0.00
14512.000	23.30	654.10	652.60	3810.00	638.10	647.50	0.0	9.19	1146.20	1217.84	414.37	0.0
14512.000	23.30	654.10	652.60	3810.00	638.10	647.50	0.0	9.21	1146.24	1217.79	413.71	-0.00
14513.000	1.00	0.0	0.0	3810.00	638.10	647.53	0.0	9.16	1146.12	1217.95	416.02	0.0
14513.000	1.00	0.0	0.0	3810.00	638.10	647.53	0.0	9.17	1146.14	1217.93	415.64	-0.00
14538.000	25.00	0.0	0.0	3810.00	636.80	648.18	0.0	8.45	1043.52	1177.96	613.36	0.0
14538.000	25.00	0.0	0.0	3810.00	636.80	648.18	0.0	8.44	1043.50	1177.97	613.87	0.00
14563.000	25.00	0.0	0.0	3810.00	635.50	648.73	0.0	6.16	1030.28	1188.59	888.43	0.0
14563.000	25.00	0.0	0.0	3810.00	635.50	648.73	0.0	6.16	1030.30	1188.60	888.75	0.00
17289.000	2725.00	0.0	0.0	3580.00	642.80	653.19	0.0	4.27	1145.25	1671.46	1524.41	0.0
17289.000	2725.00	0.0	0.0	3580.00	642.80	653.74	0.0	5.25	1236.08	1501.10	1075.64	0.55

SUMMARY OF ERRORS

CAUTION SECNO=14488.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO=14488.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
 CAUTION SECNO=14488.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
 CAUTION SECNO=14489.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY

FLOODWAY DATA: 100 YEAR FLOOD WATER SUR  
 PROFILE NO. 2

STATION	FLOODWAY WIDTH (FT)	FLOODWAY SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION		
				WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
<i>Part 2 of 2</i>						
12688.000	80.	386.	9.9	633.7	633.7	0.0
E- 14430.000	132.	664.	5.7	646.1	646.1	0.0 ✓
14463.000	93.	413.	9.2	645.6	645.6	0.0
14480.000	55.	292.	13.1	645.5	645.5	0.0
14489.000	59.	329.	11.6	646.2	646.2	0.0
14512.000	70.	414.	9.2	647.5	647.5	0.0
14513.000	70.	416.	9.2	647.5	647.5	0.0
F- 14530.000	134.	614.	6.2	648.2	648.2	0.0
14563.000	158.	889.	4.3	648.7	648.7	0.0 ✓
G- 17288.000	265.	1076.	3.3	653.7	653.2	0.5 ✓

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 DUHARTS CREEK  
 T2 GASTON CO. FIS JOB # 207022  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-1.	4.	0.	0.	0.0	0.0	0.0	0.	570.160	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	39.000	40.000	41.000	43.000	42.000	1.000	2.000	26.000	53.000
	54.000	25.000	50.000	0.0	200.000	0.0	0.0	0.0	0.0	0.0
NC	0.045	0.050	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	2410.000	3710.000	4210.000	5300.000	4210.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	1541.000	46.000	1176.000	1977.000	1541.000	1541.000	1541.000	1541.000	0.0	0.0
GR	581.600	1000.000	578.300	1100.000	577.000	1176.000	573.300	1188.000	572.900	1200.000
GR	568.400	1229.000	566.700	1250.000	567.200	1275.000	566.400	1300.000	567.200	1325.000
GR	566.400	1350.000	567.900	1375.000	567.700	1400.000	565.400	1425.000	565.300	1450.000
GR	566.300	1475.000	567.000	1500.000	567.300	1525.000	568.200	1550.000	567.900	1575.000
GR	567.800	1600.000	568.000	1625.000	568.200	1650.000	568.000	1675.000	567.900	1700.000
GR	568.000	1725.000	568.200	1750.000	567.800	1775.000	568.000	1800.000	568.000	1825.000
GR	568.000	1850.000	573.100	1900.000	574.700	1935.000	575.700	1977.000	576.300	2000.000
GR	576.700	2100.000	576.600	2200.000	575.500	2238.000	566.500	2238.000	566.400	2263.000
GP	568.300	2263.000	566.900	2285.000	575.800	2285.000	575.300	2301.000	574.800	2335.000
GR	581.700	2341.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	1557.000	0.0	0.0	0.0	16.000	16.000	16.000	16.000	0.0	0.110
X1	1573.000	33.000	1343.000	1537.000	16.000	16.000	16.000	16.000	0.0	0.0
GR	582.000	1000.000	578.200	1100.000	577.300	1200.000	577.000	1300.000	574.400	1342.900
GR	574.400	1343.000	570.300	1366.400	567.400	1381.700	574.500	1381.700	574.600	1384.700
GR	567.500	1384.700	566.900	1400.000	565.500	1440.000	565.400	1443.200	567.200	1495.200
GR	574.500	1495.200	574.500	1498.200	567.200	1498.200	567.400	1500.000	569.400	1519.700
GR	574.400	1537.000	574.400	1537.100	576.400	1600.000	576.500	1700.000	576.600	1800.000
GR	576.500	1900.000	576.500	2000.000	576.300	2100.000	576.000	2200.000	574.900	2300.000
GR	575.400	2400.000	575.200	2431.000	580.500	2440.000	0.0	0.0	0.0	0.0
X1	1574.000	0.0	0.0	0.0	1.000	1.000	1.000	1.000	0.0	0.0

BT	22,000	1000,000	582,000	1342,900	577,100	0,0	1343,000	577,100	574,400	1400,000
BT	1300,000	577,000	0,0	1342,900	577,100	0,0	1343,000	577,100	574,400	1400,000
BT	577,300	574,600	1440,000	577,300	574,600	1500,000	577,200	574,500	1537,000	577,100
BT	574,400	1537,100	577,100	0,0	1600,000	576,400	0,0	1700,000	576,500	0,0
BT	1800,000	576,600	0,0	1900,000	576,500	0,0	2000,000	576,500	0,0	2100,000
BT	576,300	0,0	2200,000	576,000	0,0	2300,000	574,900	0,0	2400,000	575,400
BT	0,0	2431,000	575,200	0,0	2440,000	580,500	0,0	0,0	0,0	0,0

X1	1590,000	33,000	1343,000	1537,000	16,000	16,000	16,000	0,0	0,0	0,0
BT	22,000	1000,000	582,000	0,0	1100,000	578,200	0,0	1200,000	577,300	0,0
BT	1300,000	577,000	0,0	1342,900	577,100	0,0	1343,000	577,100	574,400	1400,000
BT	577,300	574,600	1440,000	577,300	574,600	1500,000	577,200	574,500	1537,000	577,100
BT	574,400	1537,100	577,100	0,0	1600,000	576,400	0,0	1700,000	576,500	0,0
BT	1800,000	576,600	0,0	1900,000	576,500	0,0	2000,000	576,500	0,0	2100,000
BT	576,300	0,0	2200,000	576,000	0,0	2300,000	574,900	0,0	2400,000	575,400
BT	0,0	2431,000	575,200	0,0	2440,000	580,500	0,0	0,0	0,0	0,0
GR	582,000	1000,000	578,200	1100,000	577,300	1200,000	577,000	1300,000	574,400	1342,900
GR	574,400	1343,000	570,300	1366,400	567,400	1381,700	574,500	1381,700	574,600	1384,700
GR	567,500	1384,700	566,900	1400,000	565,500	1440,000	565,400	1443,200	567,200	1495,200
GR	574,500	1495,200	574,500	1498,200	567,200	1498,200	567,400	1500,000	569,400	1519,700
GR	574,400	1537,000	574,400	1537,100	576,400	1600,000	576,500	1700,000	576,600	1800,000
GR	576,500	1900,000	576,500	2000,000	576,300	2100,000	576,000	2200,000	574,900	2300,000
GR	575,400	2400,000	575,200	2431,000	580,500	2440,000	0,0	0,0	0,0	0,0

X1	1591,000	0,0	0,0	0,0	1,000	1,000	1,000	0,0	0,0	0,0
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X1	1615,000	27,000	1187,000	1591,000	25,000	25,000	25,000	0,0	0,0	0,0
GR	585,900	1000,000	580,000	1100,000	577,000	1169,000	576,200	1187,000	568,400	1205,000
GR	568,100	1225,000	567,900	1250,000	568,300	1275,000	567,700	1300,000	567,100	1325,000
GR	566,700	1350,000	566,900	1375,000	566,300	1389,000	565,900	1400,000	565,300	1425,000
GR	565,800	1450,000	567,900	1475,000	568,300	1500,000	568,600	1525,000	568,700	1550,000
GR	568,700	1568,000	574,300	1591,000	575,900	1700,000	579,300	1744,000	579,700	1772,000
GR	582,200	1800,000	585,900	1834,000	0,0	0,0	0,0	0,0	0,0	0,0

X1	1641,000	0,0	0,0	0,0	25,000	25,000	25,000	0,0	0,0	0,0
MC	0,050	0,050	0,040	0,0	0,0	0,0	0,0	0,0	0,0	0,0

X1	2280,000	25,000	1186,000	1238,000	639,000	639,000	639,000	0,0	0,0	0,0
GR	580,400	1000,000	579,800	1006,000	579,800	1014,400	579,600	1023,000	579,200	1025,000
GR	579,600	1025,500	579,000	1028,000	568,800	1046,000	568,500	1050,000	568,400	1100,000
GR	568,700	1150,000	569,500	1186,000	568,600	1189,000	564,200	1196,000	563,500	1200,000
GR	564,000	1211,000	565,400	1227,000	568,600	1236,000	570,400	1238,000	569,400	1300,000
GR	568,800	1350,000	569,600	1400,000	568,000	1436,000	569,500	1450,000	579,600	1500,000

X1	2290,000	0,0	0,0	0,0	10,000	10,000	10,000	0,0	0,0	0,0
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X1	2300,000	67,000	1031,000	1476,000	10,000	10,000	10,000	0,0	0,0	0,0
GR	580,400	1000,000	579,800	1007,000	579,900	1015,000	579,500	1024,000	579,300	1026,000
GR	579,700	1026,100	579,700	1026,500	576,500	1030,900	576,400	1031,000	572,900	1031,000
GR	570,400	1050,000	569,300	1058,500	573,000	1058,500	573,000	1061,500	569,300	1061,500
GP	567,900	1100,000	566,800	1130,800	573,000	1130,800	573,000	1133,800	566,800	1133,800
GR	566,200	1135,000	567,600	1150,000	570,200	1178,500	573,100	1178,500	573,100	1181,500
GR	570,200	1181,500	568,400	1187,000	564,200	1200,000	564,600	1202,500	573,100	1202,500
GR	573,100	1205,500	564,600	1205,500	571,100	1234,000	569,900	1250,000	569,900	1250,300
GR	573,000	1250,300	573,000	1253,800	569,900	1253,800	569,500	1298,500	573,000	1298,500
GR	573,000	1300,000	573,000	1301,500	569,500	1301,500	568,700	1347,300	573,000	1347,300
GR	573,000	1348,800	568,700	1348,800	568,700	1350,000	569,000	1370,300	573,000	1370,300
GR	573,000	1373,800	569,900	1373,800	569,800	1400,000	569,600	1418,500	572,900	1418,500
GR	572,900	1421,500	569,600	1421,500	569,600	1450,000	569,600	1467,300	572,700	1467,300



GR	572.700	1468.800	569.600	1468.800	572.700	1476.000	576.200	1476.000	576.100	1476.100
GR	576.100	1493.000	581.700	1510.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	2301.000	0.0	0.0	0.0	1.000	1.000	1.000	0.0	0.0	0.0
BT	22.000	1000.000	580.400	0.0	1007.000	579.800	0.0	1015.000	579.900	0.0
BT	1024.000	579.500	0.0	1026.000	579.300	0.0	1026.100	579.700	0.0	1026.500
BT	579.700	0.0	1030.900	576.400	0.0	1031.000	576.400	572.900	1050.000	576.500
BT	573.000	1100.000	576.500	573.000	1150.000	576.500	573.000	1200.000	576.600	573.100
BT	1250.000	576.500	573.000	1300.000	576.500	573.000	1350.000	576.500	573.000	1400.000
BT	576.500	573.000	1450.000	576.300	572.800	1476.000	576.200	572.700	1476.100	576.200
BT	0.0	1493.000	576.100	0.0	1510.000	581.700	0.0	0.0	0.0	0.0
X1	2302.000	67.000	1031.000	1476.000	1.000	1.000	1.000	0.0	0.0	0.0
BT	22.000	1000.000	580.400	0.0	1007.000	579.800	0.0	1015.000	579.900	0.0
BT	1024.000	579.500	0.0	1026.000	579.300	0.0	1026.100	579.700	0.0	1026.500
BT	579.700	0.0	1030.900	576.400	0.0	1031.000	576.400	572.900	1050.000	576.500
BT	573.000	1100.000	576.500	573.000	1150.000	576.500	573.000	1200.000	576.600	573.100
BT	1250.000	576.500	573.000	1300.000	576.500	573.000	1350.000	576.500	573.000	1400.000
BT	576.500	573.000	1450.000	576.300	572.800	1476.000	576.200	572.700	1476.100	576.200
BT	0.0	1493.000	576.100	0.0	1510.000	581.700	0.0	0.0	0.0	0.0
GR	580.400	1000.000	579.800	1007.000	579.900	1015.000	579.500	1024.000	579.300	1026.000
GR	579.700	1026.100	579.700	1026.500	576.500	1030.900	576.400	1031.000	572.900	1031.000
GR	570.400	1050.000	569.300	1058.500	573.000	1058.500	573.000	1061.500	569.300	1061.500
GR	567.900	1100.000	566.800	1130.800	573.000	1130.800	573.000	1133.800	566.800	1133.800
GR	566.200	1135.000	567.600	1150.000	570.200	1178.500	573.100	1178.500	573.100	1181.500
GR	570.200	1181.500	568.400	1187.000	564.200	1200.000	564.600	1202.500	573.100	1202.500
GR	573.100	1205.500	564.600	1205.500	571.100	1234.000	569.900	1250.000	569.900	1250.300
GR	573.000	1250.300	573.000	1253.800	569.900	1253.800	569.500	1298.500	573.000	1298.500
GR	573.000	1300.000	573.000	1301.500	569.500	1301.500	568.700	1347.300	573.000	1347.300
GR	573.000	1348.800	568.700	1348.800	568.700	1350.000	569.000	1370.300	573.000	1370.300
GR	573.000	1373.800	569.000	1373.800	569.800	1400.000	569.600	1418.500	572.900	1418.500
GR	572.900	1421.500	569.600	1421.500	569.600	1450.000	569.600	1467.300	572.700	1467.300
GR	572.700	1468.800	569.600	1468.800	572.700	1476.000	576.200	1476.000	576.100	1476.100
GR	576.100	1493.000	581.700	1510.000	0.0	0.0	0.0	0.0	0.0	0.0
X1	2303.000	0.0	0.0	0.0	1.000	1.000	1.000	0.0	0.0	0.0
X1	2313.000	25.000	1186.000	1238.000	10.000	10.000	10.000	0.0	0.070	0.0
GR	580.400	1000.000	579.800	1006.000	579.800	1014.000	579.600	1023.000	579.200	1025.000
GR	579.600	1025.500	579.000	1028.000	568.800	1046.000	568.500	1050.000	568.400	1100.000
GR	568.700	1150.000	569.500	1186.000	568.600	1189.000	564.200	1196.000	563.500	1200.000
GR	564.000	1211.000	565.400	1227.000	568.600	1236.000	570.400	1238.000	569.400	1300.000
GR	568.800	1350.000	569.600	1400.000	568.000	1436.000	569.500	1450.000	579.600	1500.000
X1	2323.000	0.0	0.0	0.0	10.000	10.000	10.000	0.0	-0.070	0.0
X1	3190.000	21.000	332.000	392.000	3190.000	3190.000	3190.000	0.0	0.0	0.0
GR	585.700	0.0	578.200	24.000	576.000	49.000	569.400	83.000	569.400	128.000
GR	569.300	149.000	570.100	212.000	570.200	249.000	572.300	308.000	571.400	332.000
GR	568.700	339.000	568.300	364.000	567.600	385.000	567.800	389.000	568.300	390.000
GR	571.500	392.000	570.000	440.000	571.100	469.000	571.000	505.000	579.200	523.000
GR	589.900	545.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	4190.000	15.000	1049.000	1160.000	1000.000	1000.000	1000.000	0.0	0.0	0.0
GR	586.100	1000.000	584.100	1022.000	576.500	1032.000	575.200	1049.000	571.400	1062.000
GR	569.000	1067.000	568.500	1068.000	564.700	1098.000	564.200	1118.000	564.300	1132.000
GR	568.000	1146.000	568.700	1147.000	573.300	1160.000	577.200	1165.000	581.400	1188.000

X1	4215.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.0	0.0
X1	4240.000	17.000	1109.800	1110.200	25.000	25.000	25.000	0.0	0.100	0.0
GR	586.100	992.000	584.100	1014.000	576.500	1024.000	575.200	1041.000	571.400	1054.000
GR	569.000	1059.000	568.500	1060.000	564.700	1090.000	564.400	1109.800	564.200	1110.000
GR	564.400	1110.200	564.300	1124.000	568.000	1138.000	568.700	1139.000	573.300	1152.000
GR	577.200	1157.000	581.400	1180.000	0.0	0.0	0.0	0.0	0.0	0.0
SB	0.0	4.500	2.500	0.0	0.400	0.0	0.080	0.0	564.200	564.200
X1	4290.000	0.0	0.0	0.0	50.000	50.000	50.000	0.0	0.0	0.0
X2	0.0	0.0	1.000	564.700	570.200	0.0	0.0	0.0	0.0	0.0
BT	17.000	1000.000	586.000	0.0	1022.000	584.100	0.0	1032.000	576.400	0.0
BT	1059.000	572.800	0.0	1066.000	570.500	0.0	1097.000	570.700	0.0	1109.800
BT	570.600	564.500	1110.000	570.600	564.700	1110.200	570.600	564.500	1117.000	570.500
BT	0.0	1132.000	570.200	0.0	1146.000	571.500	0.0	1154.000	571.700	0.0
BT	1159.000	573.100	0.0	1167.000	577.100	0.0	1184.000	581.500	0.0	1227.000
BT	581.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	4315.000	15.000	1049.000	1160.000	25.000	25.000	25.000	0.0	0.200	0.0
GR	586.100	1000.000	584.100	1022.000	576.500	1032.000	575.200	1049.000	571.400	1062.000
GR	569.000	1067.000	568.500	1068.000	574.700	1098.000	564.200	1118.000	564.300	1132.000
GR	568.000	1146.000	568.700	1147.000	573.300	1160.000	577.200	1165.000	581.400	1188.000
X1	4340.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.0	0.0
QT	5.000	2150.000	3350.000	3810.000	4840.000	3810.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	22.500	103.500	0.0	0.0
X1	4900.000	12.000	46.000	94.000	560.000	560.000	560.000	0.0	0.0	0.0
GR	583.100	0.0	578.600	13.000	576.700	34.000	573.000	46.000	570.400	48.000
GR	567.600	51.000	567.400	58.000	569.000	66.000	569.300	83.000	570.400	86.000
GR	574.900	94.000	583.300	122.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	20.400	89.700	0.0	0.0
X1	6891.000	12.000	38.000	75.000	1991.000	1991.000	1991.000	0.0	0.0	0.0
GR	604.000	0.0	595.700	20.000	592.300	28.000	590.200	38.000	588.900	40.000
GR	588.400	41.000	588.200	53.000	588.600	66.000	588.900	68.000	592.500	75.000
GR	594.000	86.000	603.400	109.000	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	8291.000	13.000	1030.000	1074.000	1400.000	1400.000	1400.000	0.0	0.0	0.0
GR	603.100	1000.000	597.400	1015.000	597.100	1030.000	589.900	1036.000	588.300	1048.000
GR	587.400	1054.000	588.300	1067.000	586.600	1068.000	595.200	1074.000	595.800	1084.000
GR	596.900	1100.000	598.700	1117.000	602.900	1136.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1065.700	1113.500	0.0	0.0
X1	10410.000	18.000	1071.000	1115.000	2119.000	2119.000	2119.000	0.0	0.0	0.0
GR	618.700	1000.000	616.300	1020.000	613.500	1050.000	612.200	1058.000	610.700	1065.000
GR	610.000	1071.000	603.500	1077.000	603.200	1080.000	602.800	1087.000	602.700	1096.000
GR	603.200	1105.000	611.900	1115.000	612.000	1165.000	612.600	1215.000	612.900	1265.000
GR	613.100	1315.000	614.400	1365.000	618.500	1395.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1060.800	1114.700	0.0	0.0
X1	10435.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	0.200	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	10460.000	26.000	1107.000	1195.000	25.000	25.000	25.000	0.0	0.0	0.0



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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 DUHARTS CREEK  
 T2 GASTON CO. FIS JOB # 207022  
 T3 100 YEAR FLOODWAY

J1	ICHECK	IND	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	6.	0.	0.	0.0	0.0	0.0	0.	571.160	0.0
J2	MPROF	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

\*PROF 2

CCHV= 0.100 CEHV= 0.300

\*SECNO 1541.000

2800 NAT Q1= 1336.35 WSEL= 570.16 ENC Q1= 2099.54 WSEL= 571.16 RATIO= -0.5711  
 NAT Q1= 2232. RATIOS LOB,CH,ROP= 0.0 0.9407 0.0593 WSEL= 571.16

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

3470 ENCROACHMENT STATIONS= 1176.0 1977.0 TYPE= 4 TARGET= 0.059

1541.00	5.86	571.16	0.0	570.16	571.21	0.05	0.0	0.0	577.00
4210.	0.	4210.	0.	0.	2409.	0.	0.	0.	575.70
0.0	0.0	1.75	0.0	0.045	0.040	0.050	0.0	565.30	1211.21
0.000402	1541.	1541.	1541.	0	0	0	0.0	669.77	1880.98

\*SECNO 1557.000

2800 NAT Q1= 1261.35 WSEL= 570.17 ENC Q1= 2008.92 WSEL= 571.17 RATIO= -0.5919  
 NAT Q1= 2137. RATIOS LOB,CH,ROP= 0.0 0.9403 0.0597 WSEL= 571.17

3470 ENCROACHMENT STATIONS= 1176.0 1977.0 TYPE= 4 TARGET= 0.060

1557.00	5.76	571.16	0.0	570.17	571.21	0.05	0.01	0.00	577.11
4210.	0.	4210.	0.	0.	2340.	0.	1.	0.	575.81
0.00	0.0	1.80	0.0	0.045	0.040	0.050	0.038	565.41	1211.88
0.000442	16.	16.	16.	0	0	0	0.0	668.08	1879.96

\*SECNO 1573.000

INC2091 IBCOM - PROGRAM INTERRUPT (P) - DIVIDE CHECK OLD PSW IS FFD5000F42060492 . REGISTER CONTAINED 0000000000000000

TRACEBACK ROUTINE CALLED FROM ISM REG. 14 REG. 15 REG. 0 REG. 1

H2MAIN 0005 3205573A 00055778 FD000008 00000000

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

100 YEAR FLOOD WATER SUR

SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
1541.000	1541.00	0.0	0.0	4210.00	565.30	570.16	0.0	2.25	1217.66	2285.00	1896.60	0.0
1541.000	1541.00	0.0	0.0	4210.00	565.30	571.16	0.0	1.75	1211.21	1880.98	2409.16	1.00
1557.000	16.00	0.0	0.0	4210.00	565.41	570.17	0.0	2.33	1218.26	2285.00	1830.82	0.0
1557.000	16.00	0.0	0.0	4210.00	565.41	571.16	0.0	1.80	1211.88	1879.96	2339.76	0.99
* 1573.000	16.00	0.0	0.0	4210.00	565.40	569.81	569.81	9.83	1369.00	1521.11	428.37	0.0
1573.000	16.00	0.0	0.0	4210.00	565.40	570.56	0.0	7.78	1364.90	1523.72	541.27	0.75
1574.000	1.00	574.90	574.60	4210.00	565.40	570.18	0.0	8.70	1367.01	1522.41	484.05	0.0
1574.000	1.00	574.90	574.60	4210.00	565.40	570.57	0.0	7.77	1364.87	1523.74	542.10	0.39
1590.000	16.00	574.90	574.60	4210.00	565.40	570.65	0.0	7.59	1364.39	1524.03	554.93	0.0
1590.000	16.00	574.90	574.60	4210.00	565.40	570.85	0.0	7.18	1363.23	1524.73	586.24	0.20
1591.000	1.00	0.0	0.0	4210.00	565.40	570.67	0.0	7.56	1364.32	1524.07	556.66	0.0
1591.000	1.00	0.0	0.0	4210.00	565.40	570.86	0.0	7.18	1363.22	1524.74	586.49	0.19
1615.000	25.00	0.0	0.0	4210.00	565.30	571.56	0.0	2.74	1197.69	1579.79	1537.25	0.0
1615.000	25.00	0.0	0.0	4210.00	565.30	571.66	0.0	2.67	1197.46	1580.18	1573.92	0.10
1641.000	25.00	0.0	0.0	4210.00	565.30	571.59	0.0	2.73	1197.64	1579.86	1543.91	0.0
1641.000	25.00	0.0	0.0	4210.00	565.30	571.68	0.0	2.67	1197.44	1580.22	1577.92	0.09
2280.000	639.00	0.0	0.0	4210.00	563.50	572.20	0.0	4.56	1040.00	1463.37	1491.43	0.0
2280.000	639.00	0.0	0.0	4210.00	563.50	572.29	0.0	6.30	1103.07	1365.36	1003.48	0.09
2290.000	10.00	0.0	0.0	4210.00	563.50	572.22	0.0	4.54	1039.98	1463.42	1496.00	0.0
2290.000	10.00	0.0	0.0	4210.00	563.50	572.32	0.0	6.26	1103.05	1365.38	1008.97	0.11
2300.000	10.00	0.0	0.0	4210.00	564.20	572.26	0.0	3.10	1035.90	1474.97	1359.78	0.0
2300.000	10.00	0.0	0.0	4210.00	564.20	572.64	0.0	2.77	1033.00	1475.65	1517.64	0.38
2301.000	1.00	576.10	573.10	4210.00	564.20	572.26	0.0	3.09	1035.89	1474.97	1360.62	0.0
2301.000	1.00	576.10	573.10	4210.00	564.20	572.64	0.0	2.78	1033.04	1475.84	1515.26	0.38
2302.000	1.00	576.10	573.10	4210.00	564.20	572.26	0.0	3.09	1035.87	1474.98	1361.52	0.0
2302.000	1.00	576.10	573.10	4210.00	564.20	572.64	0.0	2.77	1032.98	1475.86	1518.69	0.38

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
2303.000	1.00	0.0	0.0	4210.00	564.20	572.26	0.0	3.09	1035.86	1474.98	1362.22	0.0
2303.000	1.00	0.0	0.0	4210.00	564.20	572.64	0.0	2.77	1032.98	1475.86	1518.51	0.38
2313.000	10.00	0.0	0.0	4210.00	563.57	572.26	0.0	4.58	1040.02	1463.30	1485.57	0.0
2313.000	10.00	0.0	0.0	4210.00	563.57	572.48	0.0	6.11	1103.26	1365.06	1052.83	0.22
2323.000	10.00	0.0	0.0	4210.00	563.50	572.28	0.0	4.46	1039.87	1463.73	1521.75	0.0
2323.000	10.00	0.0	0.0	4210.00	563.50	572.54	0.0	5.87	1102.40	1366.41	1073.34	0.26
3190.000	3190.00	0.0	0.0	4210.00	567.60	574.83	0.0	2.87	55.00	513.42	2070.63	0.0
3190.000	3190.00	0.0	0.0	4210.00	567.60	575.00	0.0	3.19	146.13	466.57	1797.49	0.96
4190.000	1000.00	0.0	0.0	4210.00	564.20	575.37	0.0	4.73	1046.79	1162.65	892.25	0.0
4190.000	1000.00	0.0	0.0	4210.00	564.20	576.31	0.0	4.24	1049.00	1160.00	994.00	0.94
4215.000	25.00	0.0	0.0	4210.00	564.20	575.40	0.0	4.72	1046.54	1162.68	894.52	0.0
4215.000	25.00	0.0	0.0	4210.00	564.20	576.33	0.0	4.23	1049.00	1160.00	996.02	0.94
4240.000	25.00	0.0	0.0	4210.00	564.30	575.42	0.0	5.50	1039.40	1154.59	883.58	0.0
4240.000	25.00	0.0	0.0	4210.00	564.30	576.27	0.0	5.74	1061.57	1140.54	832.11	0.85
4290.000	50.00	570.20	564.70	4210.00	564.30	577.12	0.0	4.47	1023.31	1156.77	1098.36	0.0
4290.000	50.00	999999.00	0.0	4210.00	564.30	577.97	0.0	4.57	1057.21	1140.21	1002.64	0.85
4315.000	25.00	0.0	0.0	4210.00	564.40	577.01	0.0	5.23	1031.59	1164.50	823.79	0.0
4315.000	25.00	0.0	0.0	4210.00	564.40	577.95	0.0	4.66	1049.00	1160.00	903.65	0.94
4340.000	25.00	0.0	0.0	4210.00	564.40	577.05	0.0	5.20	1031.54	1164.55	828.50	0.0
4340.000	25.00	0.0	0.0	4210.00	564.40	577.98	0.0	4.64	1049.00	1160.00	906.42	0.92
4900.000	560.00	0.0	0.0	3810.00	567.40	577.73	0.0	9.19	22.56	103.45	450.38	0.0
4900.000	560.00	0.0	0.0	3810.00	567.40	578.44	0.0	8.31	22.50	103.50	507.19	0.70
* 6891.000	1991.00	0.0	0.0	3810.00	588.20	595.52	595.52	13.36	20.42	89.72	327.95	0.0
* 6891.000	1991.00	0.0	0.0	3810.00	588.20	595.52	595.52	13.35	20.41	89.70	328.32	0.01
8291.000	1400.00	0.0	0.0	3810.00	587.40	601.34	0.0	5.87	1004.63	1128.94	815.60	0.0
8291.000	1400.00	0.0	0.0	3810.00	587.40	601.66	0.0	6.53	1022.46	1086.45	643.73	0.32
* 10410.000	2119.00	0.0	0.0	3810.00	602.70	610.62	610.62	14.10	1065.67	1113.53	271.59	0.0
* 10410.000	2119.00	0.0	0.0	3810.00	602.70	610.62	610.62	14.12	1065.72	1113.50	271.30	-0.01
10435.000	25.00	0.0	0.0	3810.00	602.90	611.82	0.0	12.10	1060.74	1114.67	322.17	0.0
10435.000	25.00	0.0	0.0	3810.00	602.90	611.83	0.0	12.06	1060.80	1114.69	323.30	0.02
10460.000	25.00	0.0	0.0	3810.00	603.10	613.11	0.0	9.23	1110.55	1195.00	412.82	0.0
10460.000	25.00	0.0	0.0	3810.00	603.10	613.11	0.0	9.25	1110.60	1195.00	412.08	-0.01
10461.000	1.00	618.20	616.30	3810.00	603.10	613.14	0.0	9.19	1110.43	1195.01	414.43	0.0
10461.000	1.00	618.20	616.30	3810.00	603.10	613.13	0.0	9.20	1110.47	1195.00	413.93	-0.00
10479.000	18.00	618.20	616.30	3810.00	603.10	613.56	0.0	8.45	1107.82	1195.09	450.94	0.0
10479.000	18.00	618.20	616.30	3810.00	603.10	613.56	0.0	8.44	1107.78	1195.00	451.43	0.00
10480.000	1.00	0.0	0.0	3810.00	603.10	613.57	0.0	8.44	1107.77	1195.09	451.66	0.0
10480.000	1.00	0.0	0.0	3810.00	603.10	613.57	0.0	8.44	1107.77	1195.00	451.56	-0.00

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENOST	AREA	DIFWSP
10495.000	15.00	0.0	0.0	3810.00	603.10	613.50	0.0	10.03	1100.64	1181.62	443.48	0.0
10495.000	15.00	0.0	0.0	3810.00	603.10	613.50	0.0	10.03	1108.63	1181.60	443.57	0.00
10510.000	15.00	0.0	0.0	3810.00	603.10	613.71	0.0	9.72	1108.37	1185.43	459.25	0.0
10510.000	15.00	0.0	0.0	3810.00	603.10	613.71	0.0	9.72	1108.40	1185.40	459.17	-0.00
12688.000	2178.00	0.0	0.0	3810.00	625.10	633.68	0.0	11.92	1050.98	1131.01	386.97	0.0
12688.000	2178.00	0.0	0.0	3810.00	625.10	633.68	0.0	11.92	1051.00	1131.00	387.29	0.01

SUMMARY OF ERRORS

CAUTION SECNO= 1573.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 1573.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 1573.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 6891.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 6891.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 6891.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 6891.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 6891.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=10410.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=10410.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=10410.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=10410.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=10410.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=10410.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL

Part 1 of 2

FLOODWAY DATA, 100 YEAR FLOOD WATER SUR  
PROFILE NO. 2

Cramerton Corporate Limits @ 88+20  
 FIELD  
 A  
 B  
 C  
 D

STATION	FLOODWAY		MEAN VELOCITY	WATER SURFACE ELEVATION		DIFFERENCE
	WIDTH (FT)	SECTION AREA		WITH FLOODWAY	WITHOUT FLOODWAY	
A- 1541.000	670.	2409.	1.7	571.2	570.2	1.0
1557.000	668.	2340.	1.8	571.2	570.2	1.0
1573.000	153.	541.	7.8	570.6	569.8	0.8
1574.000	153.	542.	7.8	570.6	570.2	0.4
1590.000	156.	586.	7.2	570.9	570.7	0.2
1591.000	156.	586.	7.2	570.9	570.7	0.2
1615.000	383.	1574.	2.7	571.7	571.6	0.1
1641.000	383.	1578.	2.7	571.7	571.6	0.1
2280.000	262.	1003.	4.2	572.3	572.2	0.1
2290.000	262.	1009.	4.2	572.3	572.2	0.1
2300.000	415.	1518.	2.8	572.7	572.3	0.4
2301.000	415.	1515.	2.8	572.7	572.3	0.4
2302.000	415.	1519.	2.8	572.7	572.3	0.4
2303.000	415.	1519.	2.8	572.7	572.3	0.4
2313.000	262.	1033.	4.1	572.5	572.3	0.2
2323.000	264.	1073.	3.9	572.6	572.3	0.3
3190.000	320.	1797.	2.3	575.8	574.8	1.0
4190.000	111.	994.	4.2	576.3	575.4	0.9
4215.000	111.	996.	4.2	576.3	575.4	0.9
4240.000	79.	832.	5.1	576.3	575.4	0.9
4290.000	83.	1003.	4.2	578.0	577.1	0.9
4315.000	111.	904.	4.7	577.9	577.0	0.9
4340.000	111.	906.	4.6	578.0	577.1	0.9
4900.000	81.	507.	7.5	578.4	577.7	0.7
6891.000	69.	328.	11.6	595.5	595.5	0.0
8291.000	64.	644.	5.9	601.6	601.3	0.3
B- 10410.000	48.	271.	14.0	610.6	610.6	0.0
10435.000	54.	323.	11.8	611.8	611.8	0.0
10460.000	42.	412.	9.2	613.1	613.1	0.0
10461.000	43.	414.	9.2	613.1	613.1	0.0
10479.000	45.	451.	8.4	613.6	613.6	0.0
10480.000	45.	452.	8.4	613.6	613.6	0.0
10495.000	73.	444.	8.6	613.5	613.5	0.0
C- 10510.000	77.	459.	8.3	613.7	613.7	0.0
D- 12688.000	80.	387.	9.8	633.7	633.7	0.0

*(Handwritten notes and scribbles)*



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 HEC2 RELEASE GATED NOV 76. UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 DUHARTS CREEK  
 T2 GASTON CO. FIS JOB # 207022  
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	G	WSEL	FQ
	-1.	2.	0.	0.	0.001000	0.0	0.0	0.	571.000	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	39.000	40.000	41.000	43.000	42.000	1.000	2.000	26.000	53.000
	54.000	25.000	50.000	0.0	201.000	0.0	0.0	0.0	0.0	0.0
NC	0.045	0.050	0.040	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	2410.000	3710.000	4210.000	5300.000	4210.000	0.0	0.0	0.0	0.0
ET	0.0	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	1541.000	46.000	1176.000	1977.000	1541.000	1541.000	1541.000	1541.000	0.0	0.0
GR	581.600	1000.000	578.300	1100.000	577.000	1176.000	573.300	1188.000	572.900	1200.000
GR	568.400	1229.000	566.700	1250.000	567.200	1275.000	566.400	1300.000	567.200	1325.000
GR	566.400	1350.000	567.900	1375.000	567.700	1400.000	565.400	1425.000	565.300	1450.000
GR	566.300	1475.000	567.000	1500.000	567.300	1525.000	568.200	1550.000	567.900	1575.000
GR	567.800	1600.000	568.000	1625.000	568.200	1650.000	568.000	1675.000	567.900	1700.000
GR	568.000	1725.000	568.200	1750.000	567.800	1775.000	568.000	1800.000	568.000	1825.000
GR	568.000	1850.000	573.100	1900.000	574.700	1935.000	575.700	1977.000	576.300	2000.000
GR	576.700	2100.000	576.600	2200.000	575.500	2238.000	566.500	2238.000	566.400	2263.000
GR	568.300	2263.000	566.900	2285.000	575.800	2285.000	575.300	2301.000	574.800	2335.000
GR	581.700	2341.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
X1	1557.000	0.0	0.0	0.0	16.000	16.000	16.000	16.000	0.0	0.110
X1	1573.000	33.000	1343.000	1537.000	16.000	16.000	16.000	16.000	0.0	0.0
GR	582.000	1000.000	578.200	1100.000	577.300	1200.000	577.000	1300.000	574.400	1342.900
GR	574.400	1343.000	570.300	1366.400	567.400	1381.700	574.500	1381.700	574.600	1384.700
GR	567.500	1384.700	566.900	1400.000	565.500	1440.000	565.400	1443.200	567.200	1495.200
GR	574.500	1495.200	574.500	1498.200	567.200	1498.200	567.400	1500.000	569.400	1519.700
GR	574.400	1537.000	574.400	1537.100	576.400	1600.000	576.500	1700.000	576.600	1800.000
GR	576.500	1900.000	576.500	2000.000	576.300	2100.000	576.000	2200.000	574.900	2300.000
GR	575.400	2400.000	575.200	2431.000	580.500	2440.000	0.0	0.0	0.0	0.0
X1	1574.000	0.0	0.0	0.0	1.000	1.000	1.000	1.000	0.0	0.0

BT	22,000	1900,000	582,000	0.0	1100,000	578,200	0.0	1200,000	577,300	0.0
BT	1300,000	577,000	0.0	1342,900	577,100	0.0	1343,000	577,100	574,400	1400,000
BT	577,300	574,600	1440,000	577,300	574,600	1500,000	577,200	574,500	1537,000	577,100
BT	574,400	1537,100	577,100	0.0	1600,000	576,400	0.0	1700,000	576,500	0.0
BT	1800,000	576,600	0.0	1900,000	576,500	0.0	2000,000	576,500	0.0	2100,000
BT	576,300	0.0	2200,000	576,000	0.0	2300,000	574,900	0.0	2400,000	575,400
BT	0.0	2431,000	575,200	0.0	2440,000	580,500	0.0	0.0	0.0	0.0

X1	1590,000	33,000	1343,000	1537,000	16,000	16,000	16,000	0.0	0.0	0.0
BT	22,000	1000,000	582,000	0.0	1100,000	578,200	0.0	1200,000	577,300	0.0
BT	1300,000	577,000	0.0	1342,900	577,100	0.0	1343,000	577,100	574,400	1400,000
BT	577,300	574,600	1440,000	577,300	574,600	1500,000	577,200	574,500	1537,000	577,100
BT	574,400	1537,100	577,100	0.0	1600,000	576,400	0.0	1700,000	576,500	0.0
BT	1800,000	576,600	0.0	1900,000	576,500	0.0	2000,000	576,500	0.0	2100,000
BT	576,300	0.0	2200,000	576,000	0.0	2300,000	574,900	0.0	2400,000	575,400
BT	0.0	2431,000	575,200	0.0	2440,000	580,500	0.0	0.0	0.0	0.0
GR	582,000	1000,000	578,200	1100,000	577,300	1200,000	577,000	1300,000	574,400	1342,900
GR	574,400	1343,000	570,300	1366,400	567,400	1381,700	574,500	1381,700	574,600	1384,700
GR	567,500	1384,700	566,900	1400,000	565,500	1440,000	565,400	1443,200	567,200	1495,200
GR	574,500	1495,200	574,500	1498,200	567,200	1498,200	567,400	1500,000	569,400	1519,700
GR	574,400	1537,000	574,400	1537,100	576,400	1600,000	576,500	1700,000	576,600	1800,000
GR	576,500	1900,000	576,500	2000,000	576,300	2100,000	576,000	2200,000	574,900	2300,000
GR	575,400	2400,000	575,200	2431,000	580,500	2440,000	0.0	0.0	0.0	0.0

X1	1591,000	0.0	0.0	0.0	1,000	1,000	1,000	0.0	0.0	0.0
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X1	1615,000	27,000	1187,000	1591,000	25,000	25,000	25,000	0.0	0.0	0.0
GR	585,900	1000,000	580,000	1100,000	577,000	1169,000	576,200	1187,000	568,400	1205,000
GR	568,100	1225,000	567,900	1250,000	569,300	1275,000	567,700	1300,000	567,100	1325,000
GR	566,700	1350,000	566,900	1375,000	566,300	1389,000	565,900	1400,000	565,300	1425,000
GR	565,800	1450,000	567,900	1475,000	568,300	1500,000	568,600	1525,000	568,700	1550,000
GR	568,700	1568,000	574,300	1591,000	575,900	1700,000	579,200	1744,000	579,700	1772,000
GR	582,200	1800,000	565,900	1834,000	0.0	0.0	0.0	0.0	0.0	0.0

X1	1641,000	0.0	0.0	0.0	25,000	25,000	25,000	0.0	0.0	0.0
IC	0.050	0.750	0.040	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	2240,000	25,000	1186,000	1238,000	639,000	639,000	639,000	0.0	0.0	0.0
GR	580,400	1000,000	579,800	1006,000	579,900	1014,000	579,600	1023,000	579,200	1025,000
GR	579,600	1025,500	579,000	1028,000	568,800	1046,000	568,500	1050,000	568,400	1100,000
GR	569,700	1150,000	569,500	1186,000	568,600	1189,000	564,200	1196,000	563,500	1200,000
GR	564,000	1211,000	565,400	1227,000	568,600	1236,000	570,400	1238,000	569,400	1300,000
GR	569,800	1350,000	569,600	1400,000	568,000	1436,000	569,500	1450,000	579,600	1500,000

X1	2240,000	0.0	0.0	0.0	10,000	10,000	10,000	0.0	0.0	0.0
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X1	2300,000	67,000	1031,000	1476,000	10,000	10,000	10,000	0.0	0.0	0.0
GR	580,400	1000,000	579,800	1007,000	579,900	1015,000	579,500	1024,000	579,300	1026,000
GR	579,700	1026,100	579,700	1026,500	576,500	1030,900	576,400	1031,000	572,900	1031,000
GR	570,400	1050,000	569,300	1058,500	573,000	1058,500	573,000	1061,500	569,300	1061,500
GR	567,900	1100,000	566,800	1130,800	573,000	1130,800	573,000	1133,800	566,800	1133,800
GR	566,200	1135,000	567,600	1150,000	570,200	1178,500	573,100	1178,500	573,100	1181,500
GR	570,200	1181,500	568,000	1187,000	564,200	1200,000	564,600	1202,500	573,100	1202,500
GR	573,100	1205,500	564,600	1205,500	571,100	1234,000	569,900	1250,000	569,900	1250,300
GR	573,000	1250,300	573,000	1253,800	569,900	1253,800	569,500	1298,500	573,000	1298,500
GR	573,000	1300,000	573,000	1301,500	569,500	1301,500	568,700	1347,300	573,000	1347,300
GR	573,000	1348,800	568,700	1348,800	568,700	1350,000	569,000	1370,300	573,000	1370,300
GR	573,000	1373,800	569,000	1373,800	569,000	1400,000	569,600	1418,500	572,900	1418,500
GR	572,900	1421,500	569,600	1421,500	569,600	1450,000	569,600	1467,300	572,700	1467,300

GR	572.700	1468.800	569.600	1468.800	572.700	1476.000	576.200	1476.000	576.100	1476.100
GR	576.100	1493.000	581.700	1510.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	2301.000	0.0	0.0	0.0	1.000	1.000	1.000	0.0	0.0	0.0
BT	22.000	1000.000	580.400	0.0	1007.000	579.800	0.0	1015.000	579.900	0.0
BT	1024.000	579.500	0.0	1026.000	579.300	0.0	1026.100	579.700	0.0	1026.500
BT	579.700	0.0	1030.900	576.400	0.0	1031.000	576.400	572.900	1050.000	576.500
BT	573.000	1100.000	576.500	573.000	1150.000	576.500	573.000	1200.000	576.600	573.100
BT	1250.000	576.500	573.000	1300.000	576.500	573.000	1350.000	576.500	573.000	1400.000
BT	576.500	573.000	1450.000	576.300	572.800	1476.000	576.200	572.700	1476.100	576.200
BT	0.0	1493.000	576.100	0.0	1510.000	581.700	0.0	0.0	0.0	0.0

X1	2302.000	67.000	1031.000	1476.000	1.000	1.000	1.000	0.0	0.0	0.0
BT	22.000	1000.000	580.400	0.0	1007.000	579.800	0.0	1015.000	579.900	0.0
BT	1024.000	579.500	0.0	1026.000	579.300	0.0	1026.100	579.700	0.0	1026.500
BT	579.700	0.0	1030.900	576.400	0.0	1031.000	576.400	572.900	1050.000	576.500
BT	573.000	1100.000	576.500	573.000	1150.000	576.500	573.000	1200.000	576.600	573.100
BT	1250.000	576.500	573.000	1300.000	576.500	573.000	1350.000	576.500	573.000	1400.000
BT	576.500	573.000	1450.000	576.300	572.800	1476.000	576.200	572.700	1476.100	576.200
BT	0.0	1493.000	576.100	0.0	1510.000	581.700	0.0	0.0	0.0	0.0
GR	580.400	1000.000	579.800	1007.000	579.900	1015.000	579.500	1024.000	579.300	1026.000
GR	579.700	1026.100	579.700	1026.500	576.500	1030.900	576.400	1031.000	572.900	1031.000
GR	570.400	1050.000	569.300	1058.500	573.000	1058.500	573.000	1061.500	569.300	1061.500
GR	567.900	1100.000	566.800	1130.800	573.000	1130.800	573.000	1133.800	566.800	1133.800
GR	566.200	1135.000	567.600	1150.000	570.200	1178.500	573.100	1178.500	573.100	1181.500
GR	570.200	1181.500	568.400	1187.000	564.200	1200.000	564.600	1202.500	573.100	1202.500
GR	573.100	1205.500	564.600	1205.500	571.100	1234.000	569.900	1250.000	569.900	1250.300
GR	573.000	1250.300	573.000	1253.800	569.900	1253.800	569.500	1298.500	573.000	1298.500
GR	573.000	1300.000	573.000	1301.500	569.500	1301.500	568.700	1347.300	573.000	1347.300
GR	573.000	1348.800	568.700	1348.800	568.700	1350.000	569.000	1370.300	573.000	1370.300
GR	573.000	1373.800	569.800	1373.800	569.800	1400.000	569.600	1418.500	572.900	1418.500
GR	572.900	1421.500	569.600	1421.500	569.600	1450.000	569.600	1467.300	572.700	1467.300
GR	572.700	1468.800	569.600	1468.800	572.700	1476.000	576.200	1476.000	576.100	1476.100
GR	576.100	1493.000	581.700	1510.000	0.0	0.0	0.0	0.0	0.0	0.0

X1	2303.000	0.0	0.0	0.0	1.000	1.000	1.000	0.0	0.0	0.0
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X1	2313.000	25.000	1166.000	1238.000	10.000	10.000	10.000	0.0	0.070	0.0
GR	580.400	1000.000	579.800	1006.000	579.800	1014.000	579.600	1023.000	579.200	1025.000
GR	579.600	1025.500	579.400	1028.000	568.800	1046.000	568.500	1050.000	568.400	1100.000
GR	568.700	1150.000	569.200	1186.000	568.600	1189.000	564.200	1196.000	563.500	1200.000
GR	564.000	1211.000	565.400	1227.000	568.600	1236.000	570.400	1238.000	569.400	1300.000
GR	566.800	1350.000	569.600	1400.000	568.000	1436.000	569.500	1450.000	579.600	1500.000

X1	2323.000	0.0	0.0	0.0	10.000	10.000	10.000	0.0	-0.070	0.0
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X1	3130.000	21.000	332.000	392.000	3190.000	3190.000	3190.000	0.0	0.0	0.0
GR	585.700	0.0	578.200	24.000	576.000	49.000	569.400	83.000	569.400	128.000
GR	569.300	149.000	570.100	212.000	570.200	249.000	572.300	308.000	571.400	332.000
GR	562.700	339.000	568.300	364.000	567.600	385.000	567.800	389.000	568.300	390.000
GR	571.500	392.000	570.000	440.000	571.100	469.000	571.000	505.000	579.200	523.000
GR	569.900	545.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	4190.000	15.000	1049.000	1160.000	1000.000	1000.000	1000.000	0.0	0.0	0.0
GR	585.100	1000.000	584.100	1022.000	576.500	1032.000	575.200	1049.000	571.400	1062.000
GR	569.000	1067.000	568.500	1068.000	564.700	1098.000	564.200	1118.000	564.300	1132.000
GR	568.000	1146.000	568.700	1147.000	573.300	1160.000	577.200	1165.000	581.400	1188.000



GR	622.700	1000.000	619.300	1042.000	618.200	1106.000	614.200	1106.900	613.700	1107.000
GR	609.700	1131.000	603.700	1135.300	616.200	1135.300	616.200	1136.300	603.700	1136.300
GR	603.700	1141.000	603.300	1151.000	603.100	1157.000	603.700	1165.000	603.700	1165.200
GR	616.200	1165.200	616.200	1166.200	603.700	1166.200	609.600	1173.000	612.400	1184.000
GR	613.100	1195.000	613.600	1195.100	618.300	1196.000	619.000	1250.000	620.500	1300.000
GR	622.700	1350.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	10461.000	0.0	0.0	0.0	1.000	1.000	1.000	0.0	0.0	0.0
BT	12.000	1000.000	622.700	0.0	1042.000	619.100	0.0	1106.000	618.200	0.0
BT	1106.900	618.200	0.0	1107.000	618.200	616.200	1151.000	618.200	616.200	1195.000
BT	618.300	616.300	1195.100	618.300	0.0	1196.000	618.300	0.0	1250.000	619.000
BT	0.0	1300.000	620.500	0.0	1350.000	622.700	0.0	0.0	0.0	0.0

X1	10479.000	26.000	1107.000	1195.000	18.000	18.000	18.000	0.0	0.0	0.0
BT	12.000	1000.000	622.700	0.0	1042.000	619.100	0.0	1106.000	618.200	0.0
BT	1106.900	618.200	0.0	1107.000	618.200	616.200	1151.000	618.200	616.200	1195.000
BT	618.300	616.300	1195.100	618.300	0.0	1196.000	618.300	0.0	1250.000	619.000
BT	0.0	1300.000	620.500	0.0	1350.000	622.700	0.0	0.0	0.0	0.0
GR	622.700	1000.000	619.100	1042.000	618.200	1106.000	614.200	1106.900	613.700	1107.000
GR	609.700	1131.000	603.700	1135.300	616.200	1135.300	616.200	1136.300	603.700	1136.300
GR	603.700	1141.000	603.300	1151.000	603.100	1157.000	603.700	1165.000	603.700	1165.200
GR	616.200	1165.200	616.200	1166.200	603.700	1166.200	609.600	1173.000	612.400	1184.000
GR	613.100	1195.000	613.600	1195.100	618.300	1196.000	619.000	1250.000	620.500	1300.000
GR	622.700	1350.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

X1	10480.000	0.0	0.0	0.0	1.000	1.000	1.000	0.0	0.0	0.0
NC	0.080	0.050	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NC	0.090	0.080	0.050	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	7.100	1108.600	1181.600	0.0	0.0

X1	10495.000	17.000	1108.000	1150.000	15.000	15.000	15.000	0.0	0.0	0.0
GR	618.600	1000.000	616.100	1031.000	615.100	1066.000	614.500	1100.000	614.000	1108.000
GR	607.700	1116.000	603.800	1125.000	603.100	1133.000	603.800	1140.000	604.100	1146.000
GR	606.200	1150.000	607.400	1155.000	609.300	1159.000	610.700	1171.000	613.600	1182.000
GR	616.300	1265.000	618.100	1282.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1108.400	1185.400	0.0	0.0

X1	10510.000	0.0	0.0	0.0	15.000	15.000	15.000	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1051.000	1131.000	0.0	0.0

X1	12688.000	17.000	1074.000	1115.000	2178.000	2178.000	2178.000	0.0	0.0	0.0
GR	644.800	1000.000	640.000	1022.000	637.900	1035.000	634.400	1039.000	636.900	1043.000
GR	636.800	1046.000	631.000	1054.000	630.700	1064.000	629.200	1074.000	626.500	1077.000
GR	625.300	1082.000	625.900	1091.000	625.100	1094.000	626.500	1101.000	629.800	1115.000
GR	630.900	1122.000	644.200	1165.000	0.0	0.0	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	7.100	1044.500	1176.500	0.0	0.0

X1	14438.000	15.000	1088.000	1128.000	1750.000	1750.000	1750.000	0.0	0.0	0.0
GR	655.000	1000.000	648.000	1036.000	641.800	1064.000	641.600	1088.000	637.800	1089.000
GR	635.800	1091.000	634.900	1101.000	634.800	1110.000	635.000	1114.000	636.800	1120.000
GR	639.900	1129.000	640.600	1134.000	643.600	1142.000	645.200	1168.000	652.600	1236.000
ET	5.000	0.0	0.0	0.0	0.0	7.100	1054.400	1147.400	0.0	0.0

X1	14463.000	0.0	0.0	0.0	25.000	25.000	25.000	0.0	1.650	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0

X1	14488.000	29.000	1143.000	1231.000	25.000	25.000	25.000	0.0	0.0	0.0
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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 DUHARTS CREEK  
 T2 GASTON CO. FIS JOB # 207022  
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	3.	0.	0.	0.001000	0.0	0.0	0.	572.000	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

\*PROF 2

CCHV= 0.100 CEHV= 0.300  
 \*SECNO 1541.000

3265 DIVIDED FLOW

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	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1541.00	4.66	569.96	0.0	572.00	570.03	0.07	0.0	0.0	577.00
3710.	0.	3465.	245.	0.	1618.	140.	0.	0.	575.70
0.0	0.0	2.14	1.75	0.045	0.040	0.050	0.0	565.30	1218.94
0.000987	1541.	1541.	1541.	0	0	3	0.0	697.28	2285.00

\*SECNO 1557.000

3265 DIVIDED FLOW

1557.00	4.56	569.97	0.0	0.0	570.05	0.08	0.02	0.00	577.11
3710.	0.	3462.	248.	0.	1556.	135.	1.	0.	575.81
0.00	0.0	2.22	1.83	0.045	0.040	0.050	0.038	565.41	1219.55
0.001117	16.	16.	16.	0	0	0	0.0	695.75	2285.00

\*SECNO 1573.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

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	XLN	XNCH	XNR	WTN	ELMIN	SSTA

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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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T1 DUHARTS CREEK  
 T2 GASTON CO. FIS JOB # 207022  
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	JDIR	STRT	METRIC	HVINS	Q	WSEL	FR
	-10.	4.	0.	0.	0.001000	0.0	0.0	0.	574.000	0.0
J2	NPROF	IPL0T	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

\*PROF 3

CCHV= 0.100 CEHV= 0.300  
 \*SECNO 1541.000

3265 DIVIDED FLOW

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IC	ICONT	CURAR	TOPWID	ENDST
1541.00	4.86	570.16	0.0	574.00	570.23	0.08	0.0	0.0	577.00
4210.	0.	3938.	272.	0.	1746.	149.	0.	0.	575.70
0.0	0.0	2.26	1.83	0.045	0.040	0.050	0.0	565.30	1217.67
0.000996	1541.	1541.	1541.	0	0	5	0.0	700.48	2285.00

\*SECNO 1557.000

3265 DIVIDED FLOW

1557.00	4.76	570.17	0.0	0.0	570.25	0.08	0.02	0.00	577.11
4210.	0.	3935.	275.	0.	1684.	145.	1.	0.	575.81
0.00	0.0	2.34	1.90	0.045	0.040	0.050	0.038	565.41	1218.28
0.001117	16.	16.	16.	0	0	0	0.0	698.95	2285.00

\*SECNO 1573.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA



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 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50.51,52  
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T1 DUHARTS CREEK  
 T2 GASTON CO. FIS JOB # 207022  
 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.041000	0.0	0.0	0.	575.000	0.0
J2	NPROF	IFLOT	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

\*PROF 4

CEHV= 0.100 CEHV= 0.300  
 \*SECNO 1541.000

3265 DIVIDED FLOW

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	GL0B	QCH	GR0B	AL0B	ACH	AR0B	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XL0BL	XLCH	XL0BR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1541.00	5.27	570.57	0.0	575.00	570.66	0.09	0.0	0.0	577.00
5300.	0.	4971.	329.	0.	2017.	168.	0.	0.	575.70
0.0	0.0	2.46	1.90	0.045	0.040	0.050	0.0	565.30	1215.02
0.000994	1541.	1541.	1541.	0	0	5	0.0	707.10	2285.00

\*SECNO 1557.000

3265 DIVIDED FLOW

1557.00	5.17	570.58	0.0	0.0	570.66	0.10	0.02	0.00	577.11
5300.	0.	4568.	332.	0.	1955.	164.	1.	0.	575.01
0.00	0.0	2.54	2.02	0.045	0.040	0.050	0.038	565.41	1215.62
0.001099	16.	16.	16.	0	0	0	0.0	705.65	2285.00

\*SECNO 1573.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	GL0B	QCH	GR0B	AL0B	ACH	AR0B	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA

\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977  
 ERROR CORR - 01  
 MODIFICATION - 50,51,52  
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NOTE- ASTERISK (\*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

10 YEAR FLOOD WATER SURF  
 SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
1541.000	1541.00	0.0	0.0	2410.00	565.30	569.37	0.0	1.81	1222.76	2285.00	1347.00	0.0
1541.000	1541.00	0.0	0.0	3710.00	565.30	569.96	0.0	2.14	1218.94	2285.00	1757.36	0.59
1541.000	1541.00	0.0	0.0	4210.00	565.30	570.16	0.0	2.26	1217.67	2285.00	1894.70	0.20
1541.000	1541.00	0.0	0.0	5300.00	565.30	570.57	0.0	2.46	1215.02	2285.00	2185.00	0.41
1557.000	16.00	0.0	0.0	2410.00	565.41	569.36	0.0	1.90	1223.37	2285.00	1282.16	0.0
1557.000	16.00	0.0	0.0	3710.00	565.41	569.97	0.0	2.22	1219.55	2285.00	1691.72	0.59
1557.000	16.00	0.0	0.0	4210.00	565.41	570.17	0.0	2.34	1218.28	2285.00	1828.78	0.20
1557.000	16.00	0.0	0.0	5300.00	565.41	570.58	0.0	2.54	1215.62	2285.00	2118.54	0.41
* 1573.000	16.00	0.0	0.0	2410.00	565.40	568.80	568.80	8.41	1374.33	1513.77	286.41	0.0
* 1573.000	16.00	0.0	0.0	3710.00	565.40	569.56	569.56	9.46	1370.31	1520.25	392.32	0.76
* 1573.000	16.00	0.0	0.0	4210.00	565.40	569.81	569.81	9.83	1369.00	1521.11	428.37	0.25
* 1573.000	16.00	0.0	0.0	5300.00	565.40	570.33	570.33	10.49	1366.25	1522.90	505.31	0.52
1574.000	1.00	574.90	574.60	2410.00	565.40	569.08	0.0	7.45	1372.88	1516.47	323.54	0.0
1574.000	1.00	574.90	574.60	3710.00	565.40	569.91	0.0	8.34	1368.41	1521.50	444.74	0.84
1574.000	1.00	574.90	574.60	4210.00	565.40	570.18	0.0	8.70	1367.01	1522.41	484.05	0.27
1574.000	1.00	574.90	574.60	5300.00	565.40	570.67	0.0	9.53	1364.35	1524.06	556.07	0.49
1590.000	16.00	574.90	574.60	2410.00	565.40	569.53	0.0	6.18	1370.39	1520.20	390.03	0.0
1590.000	16.00	574.90	574.60	3710.00	565.40	570.37	0.0	7.23	1365.94	1523.09	513.42	0.84
1590.000	16.00	574.90	574.60	4210.00	565.40	570.65	0.0	7.59	1364.39	1524.03	554.93	0.28
1590.000	16.00	574.90	574.60	5300.00	565.40	571.24	0.0	8.20	1361.04	1526.06	646.52	0.59
1591.000	1.00	0.0	0.0	2410.00	565.40	569.54	0.0	6.17	1370.38	1520.20	390.43	0.0
1591.000	1.00	0.0	0.0	3710.00	565.40	570.38	0.0	7.22	1365.93	1523.10	513.64	0.84
1591.000	1.00	0.0	0.0	4210.00	565.40	570.67	0.0	7.56	1364.32	1524.07	556.66	0.29
1591.000	1.00	0.0	0.0	5300.00	565.40	571.26	0.0	8.17	1360.97	1526.11	648.63	0.59
1615.000	25.00	0.0	0.0	2410.00	565.30	570.16	0.0	2.40	1200.94	1573.96	1003.91	0.0
1615.000	25.00	0.0	0.0	3710.00	565.30	571.20	0.0	2.65	1198.52	1578.29	1398.62	1.05
1615.000	25.00	0.0	0.0	4210.00	565.30	571.56	0.0	2.74	1197.69	1579.79	1537.25	0.36
1615.000	25.00	0.0	0.0	5300.00	565.30	572.30	0.0	2.91	1195.99	1582.80	1819.77	0.73
1641.000	25.00	0.0	0.0	2410.00	565.30	570.18	0.0	2.38	1200.88	1574.10	1014.34	0.0
1641.000	25.00	0.0	0.0	3710.00	565.30	571.23	0.0	2.64	1198.48	1578.37	1406.15	1.04
1641.000	25.00	0.0	0.0	4210.00	565.30	571.59	0.0	2.73	1197.64	1579.86	1543.91	0.36
1641.000	25.00	0.0	0.0	5300.00	565.30	572.32	0.0	2.90	1195.96	1582.86	1825.01	0.73

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
2280.000	639.00	0.0	0.0	2410.00	563.50	570.93	0.0	4.24	1042.24	1457.08	958.61	0.0
2280.000	639.00	0.0	0.0	3710.00	563.50	571.87	0.0	4.49	1040.59	1461.71	1350.17	0.94
2280.000	639.00	0.0	0.0	4210.00	563.50	572.20	0.0	4.56	1040.00	1463.37	1491.43	0.33
2280.000	639.00	0.0	0.0	5300.00	563.50	572.89	0.0	4.68	1038.78	1466.78	1784.45	0.69
2290.000	10.00	0.0	0.0	2410.00	563.50	570.95	0.0	4.22	1042.22	1457.14	963.83	0.0
2290.000	10.00	0.0	0.0	3710.00	563.50	571.88	0.0	4.48	1040.57	1461.77	1354.74	0.93
2290.000	10.00	0.0	0.0	4210.00	563.50	572.22	0.0	4.54	1039.94	1463.42	1496.00	0.33
2290.000	10.00	0.0	0.0	5300.00	563.50	572.90	0.0	4.67	1038.77	1466.83	1788.49	0.69
2300.000	10.00	0.0	0.0	2410.00	564.20	571.01	0.0	2.82	1045.38	1472.07	855.10	0.0
2300.000	10.00	0.0	0.0	3710.00	564.20	571.93	0.0	3.03	1038.41	1474.20	1224.87	0.92
2300.000	10.00	0.0	0.0	4210.00	564.20	572.26	0.0	3.10	1035.90	1474.97	1359.78	0.33
2300.000	10.00	0.0	0.0	5300.00	564.20	572.93	0.0	3.23	1031.00	1476.00	1641.74	0.68
2301.000	1.00	576.10	573.10	2410.00	564.20	571.01	0.0	2.82	1045.37	1472.07	855.56	0.0
2301.000	1.00	576.10	573.10	3710.00	564.20	571.93	0.0	3.03	1038.39	1474.21	1225.57	0.92
2301.000	1.00	576.10	573.10	4210.00	564.20	572.26	0.0	3.09	1035.89	1474.97	1360.62	0.33
2301.000	1.00	576.10	573.10	5300.00	564.20	572.93	0.0	3.24	1031.00	1476.00	1634.74	0.68
2302.000	1.00	576.10	573.10	2410.00	564.20	571.01	0.0	2.81	1045.34	1472.08	856.72	0.0
2302.000	1.00	576.10	573.10	3710.00	564.20	571.93	0.0	3.02	1038.38	1474.21	1226.46	0.92
2302.000	1.00	576.10	573.10	4210.00	564.20	572.26	0.0	3.09	1035.87	1474.98	1361.52	0.33
2302.000	1.00	576.10	573.10	5300.00	564.20	572.94	0.0	3.24	1031.00	1476.00	1635.08	0.68
2303.000	1.00	0.0	0.0	2410.00	564.20	571.01	0.0	2.81	1045.33	1472.09	857.69	0.0
2303.000	1.00	0.0	0.0	3710.00	564.20	571.93	0.0	3.02	1038.36	1474.21	1227.26	0.92
2303.000	1.00	0.0	0.0	4210.00	564.20	572.26	0.0	3.09	1035.86	1474.98	1362.22	0.33
2303.000	1.00	0.0	0.0	5300.00	564.20	572.94	0.0	3.22	1031.00	1476.00	1643.44	0.68
2313.000	10.00	0.0	0.0	2410.00	563.57	571.00	0.0	4.23	1042.23	1457.10	960.62	0.0
2313.000	10.00	0.0	0.0	3710.00	563.57	571.93	0.0	4.51	1040.61	1461.66	1345.72	0.92
2313.000	10.00	0.0	0.0	4210.00	563.57	572.26	0.0	4.58	1040.02	1463.30	1485.57	0.33
2313.000	10.00	0.0	0.0	5300.00	563.57	572.94	0.0	4.70	1038.80	1466.73	1780.03	0.68
2323.000	10.00	0.0	0.0	2410.00	563.50	571.03	0.0	4.06	1042.07	1457.57	999.82	0.0
2323.000	10.00	0.0	0.0	3710.00	563.50	571.95	0.0	4.38	1040.45	1462.09	1382.01	0.92
2323.000	10.00	0.0	0.0	4210.00	563.50	572.28	0.0	4.46	1039.87	1463.73	1521.75	0.33
2323.000	10.00	0.0	0.0	5300.00	563.50	572.96	0.0	4.60	1038.67	1467.10	1812.02	0.68
3190.000	3190.00	0.0	0.0	2410.00	567.60	573.54	0.0	2.36	61.63	510.59	1486.51	0.0
3190.000	3190.00	0.0	0.0	3710.00	567.60	574.51	0.0	2.74	56.68	512.71	1921.78	0.97
3190.000	3190.00	0.0	0.0	4210.00	567.60	574.83	0.0	2.87	55.00	513.42	2070.63	0.33
3190.000	3190.00	0.0	0.0	5300.00	567.60	575.49	0.0	3.11	51.61	514.86	2373.56	0.66
4190.000	1000.00	0.0	0.0	2410.00	564.20	574.00	0.0	3.26	1053.10	1160.90	740.23	0.0
4190.000	1000.00	0.0	0.0	3710.00	564.20	575.03	0.0	4.35	1049.57	1162.22	854.15	1.03
4190.000	1000.00	0.0	0.0	4210.00	564.20	575.37	0.0	4.73	1046.79	1162.65	892.25	0.34
4190.000	1000.00	0.0	0.0	5300.00	564.20	576.03	0.0	5.50	1038.19	1163.50	971.59	0.66
4215.000	25.00	0.0	0.0	2410.00	564.20	574.02	0.0	3.25	1053.05	1160.92	741.81	0.0
4215.000	25.00	0.0	0.0	3710.00	564.20	575.06	0.0	4.34	1049.51	1162.24	855.99	1.04
4215.000	25.00	0.0	0.0	4210.00	564.20	575.40	0.0	4.72	1046.54	1162.68	894.52	0.34
4215.000	25.00	0.0	0.0	5300.00	564.20	576.06	0.0	5.48	1037.82	1163.53	975.13	0.66

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DJFWS
4240.000	25.00	0.0	0.0	2410.00	564.30	574.03	0.0	3.81	1045.34	1152.81	729.56	0.0
4240.000	25.00	0.0	0.0	3710.00	564.30	575.08	0.0	5.07	1041.75	1154.15	844.73	1.05
4240.000	25.00	0.0	0.0	4210.00	564.30	575.42	0.0	5.50	1039.40	1154.59	883.58	0.34
4240.000	25.00	0.0	0.0	5300.00	564.30	576.09	0.0	6.36	1030.63	1155.45	964.03	0.67
4290.000	50.00	570.20	564.70	2410.00	564.30	575.37	0.0	3.17	1040.03	1154.53	878.04	0.0
4290.000	50.00	570.20	564.70	3710.00	564.30	576.68	0.0	4.15	1023.89	1156.21	1040.03	1.31
4290.000	50.00	570.20	564.70	4210.00	564.30	577.12	0.0	4.47	1023.31	1156.77	1098.36	0.44
4290.000	50.00	570.20	564.70	5300.00	564.30	578.00	0.0	5.10	1022.15	1160.86	1218.33	0.88
4315.000	25.00	0.0	0.0	2410.00	564.40	575.30	0.0	3.95	1049.33	1162.31	612.09	0.0
4315.000	25.00	0.0	0.0	3710.00	564.40	576.58	0.0	4.91	1033.53	1163.95	767.17	1.28
4315.000	25.00	0.0	0.0	4210.00	564.40	577.01	0.0	5.23	1031.59	1164.50	823.79	0.43
4315.000	25.00	0.0	0.0	5300.00	564.40	577.87	0.0	5.83	1030.45	1167.60	940.02	0.86
4340.000	25.00	0.0	0.0	2410.00	564.40	575.34	0.0	3.93	1049.23	1162.35	615.19	0.0
4340.000	25.00	0.0	0.0	3710.00	564.40	576.62	0.0	4.89	1033.10	1163.99	771.47	1.28
4340.000	25.00	0.0	0.0	4210.00	564.40	577.05	0.0	5.20	1031.54	1164.55	828.50	0.43
4340.000	25.00	0.0	0.0	5300.00	564.40	577.92	0.0	5.80	1030.40	1167.81	945.30	0.87
4900.000	560.00	0.0	0.0	2150.00	567.40	576.01	0.0	6.74	36.20	97.74	331.08	0.0
4900.000	560.00	0.0	0.0	3350.00	567.40	577.31	0.0	8.59	27.23	102.04	417.50	1.30
4900.000	560.00	0.0	0.0	3810.00	567.40	577.73	0.0	9.19	22.56	103.45	450.38	0.42
4900.000	560.00	0.0	0.0	4840.00	567.40	578.56	0.0	10.38	13.41	106.21	522.33	0.83
6891.000	1991.00	0.0	0.0	2150.00	588.20	593.58	593.58	11.54	25.00	82.89	202.81	0.0
6891.000	1991.00	0.0	0.0	3350.00	588.20	595.04	595.04	12.90	21.54	88.55	295.56	1.47
6891.000	1991.00	0.0	0.0	3810.00	588.20	595.52	595.52	13.36	20.42	89.72	327.95	0.48
6891.000	1991.00	0.0	0.0	4840.00	588.20	596.45	596.45	14.33	18.18	92.00	394.82	0.93
8291.000	1400.00	0.0	0.0	2150.00	587.40	598.84	0.0	4.78	1011.21	1117.63	527.33	0.0
8291.000	1400.00	0.0	0.0	3350.00	587.40	600.73	0.0	5.61	1006.25	1126.15	740.4	1.89
8291.000	1400.00	0.0	0.0	3810.00	587.40	601.34	0.0	5.87	1004.63	1128.94	815.60	0.61
8291.000	1400.00	0.0	0.0	4840.00	587.40	602.58	0.0	6.35	1001.36	1134.56	975.66	1.24
10410.000	2119.00	0.0	0.0	2150.00	602.70	600.31	608.31	12.20	1072.56	1110.88	176.21	0.0
10410.000	2119.00	0.0	0.0	3350.00	602.70	609.98	609.98	13.79	1071.02	1112.80	242.58	1.67
10410.000	2119.00	0.0	0.0	3810.00	602.70	610.62	610.62	14.10	1065.67	1113.53	271.59	0.64
10410.000	2119.00	0.0	0.0	4840.00	602.70	610.50	613.50	10.66	1049.95	1330.57	638.49	2.88
10435.000	25.00	0.0	0.0	2150.00	602.90	609.36	0.0	10.28	1071.78	1111.84	209.09	0.0
10435.000	25.00	0.0	0.0	3350.00	602.90	611.21	0.0	11.66	1063.54	1113.98	290.83	1.85
10435.000	25.00	0.0	0.0	3810.00	602.90	611.82	0.0	12.10	1060.74	1114.67	322.17	0.61
10435.000	25.00	0.0	0.0	4840.00	602.90	613.70	613.70	10.67	1049.99	1330.45	637.60	1.88
10460.000	25.00	0.0	0.0	2150.00	603.10	609.85	0.0	9.74	1130.07	1174.00	220.85	0.0
10460.000	25.00	0.0	0.0	3350.00	603.10	612.21	0.0	9.64	1115.92	1183.27	347.35	2.36
10460.000	25.00	0.0	0.0	3810.00	603.10	613.11	0.0	9.23	1110.55	1195.00	412.82	0.90
10460.000	25.00	0.0	0.0	4840.00	603.10	613.87	0.0	10.14	1106.97	1195.15	477.53	0.76
10461.000	1.00	618.20	616.30	2150.00	603.10	609.87	0.0	9.72	1130.01	1174.04	221.25	0.0
10461.000	1.00	618.20	616.30	3350.00	603.10	612.23	0.0	9.62	1115.85	1183.32	348.15	2.36
10461.000	1.00	618.20	616.30	3810.00	603.10	613.14	0.0	9.19	1110.43	1195.01	414.43	0.90
10461.000	1.00	618.20	616.30	4840.00	603.10	613.90	0.0	10.11	1106.96	1195.15	478.75	0.76

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SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
10479.000	18.00	618.20	616.30	2150.00	603.10	610.44	0.0	8.69	1126.51	1176.33	247.49	0.0
10479.000	18.00	618.20	616.30	3350.00	603.10	612.74	0.0	8.72	1112.73	1189.42	384.18	2.30
10479.000	18.00	618.20	616.30	3810.00	603.10	613.56	0.0	8.45	1107.82	1195.09	450.94	0.82
10479.000	18.00	618.20	616.30	4840.00	603.10	614.38	0.0	9.28	1106.86	1195.25	521.69	0.82
10480.000	1.00	0.0	0.0	2150.00	603.10	610.46	0.0	8.67	1126.46	1176.36	247.85	0.0
10480.000	1.00	0.0	0.0	3350.00	603.10	612.76	0.0	8.71	1112.68	1189.54	384.77	2.30
10480.000	1.00	0.0	0.0	3810.00	603.10	613.57	0.0	8.44	1107.77	1195.09	451.66	0.82
10480.000	1.00	0.0	0.0	4840.00	603.10	614.39	0.0	9.27	1106.86	1195.25	522.37	0.82
10495.000	15.00	0.0	0.0	2150.00	603.10	610.52	0.0	9.44	1112.41	1169.50	248.91	0.0
10495.000	15.00	0.0	0.0	3350.00	603.10	612.76	0.0	9.89	1109.58	1178.81	390.75	2.23
10495.000	15.00	0.0	0.0	3810.00	603.10	613.50	0.0	10.03	1108.64	1181.62	445.48	0.74
10495.000	15.00	0.0	0.0	4840.00	603.10	614.21	0.0	11.47	1104.61	1200.82	502.19	0.71
10510.000	15.00	0.0	0.0	2150.00	603.10	610.85	0.0	8.85	1111.99	1171.59	268.15	0.0
10510.000	15.00	0.0	0.0	3350.00	603.10	612.99	0.0	9.53	1109.28	1179.69	406.97	2.14
10510.000	15.00	0.0	0.0	3810.00	603.10	613.71	0.0	9.72	1108.37	1185.43	459.25	0.72
10510.000	15.00	0.0	0.0	4840.00	603.10	614.53	0.0	10.97	1098.25	1210.63	535.25	0.82
12688.000	2178.00	0.0	0.0	2150.00	625.10	632.09	0.0	9.23	1053.54	1125.84	265.19	0.0
12688.000	2178.00	0.0	0.0	3350.00	625.10	633.30	0.0	11.26	1051.61	1129.74	355.83	1.21
12688.000	2178.00	0.0	0.0	3810.00	625.10	633.68	0.0	11.92	1050.98	1131.01	386.97	0.38
12688.000	2178.00	0.0	0.0	4840.00	625.10	634.90	0.0	12.42	1038.43	1134.93	488.02	1.22
14438.000	1750.00	0.0	0.0	2150.00	634.80	643.62	0.0	6.69	1055.79	1142.31	384.39	0.0
14438.000	1750.00	0.0	0.0	3350.00	634.80	645.52	0.0	7.63	1047.20	1170.95	586.18	1.90
14438.000	1750.00	0.0	0.0	3810.00	634.80	646.13	0.0	7.90	1044.46	1176.51	663.62	0.61
14438.000	1750.00	0.0	0.0	4840.00	634.80	647.15	0.0	8.64	1039.87	1185.85	804.93	1.02
14463.000	25.00	0.0	0.0	2150.00	636.45	643.19	0.0	9.89	1088.02	1136.50	224.17	0.0
14463.000	25.00	0.0	0.0	3350.00	636.45	645.00	0.0	10.93	1057.00	1141.34	361.52	1.81
14463.000	25.00	0.0	0.0	3810.00	636.45	645.58	0.0	11.23	1054.36	1147.43	412.69	0.58
14463.000	25.00	0.0	0.0	4840.00	636.45	646.51	0.0	12.24	1050.19	1162.46	507.68	0.92
14488.000	25.00	0.0	0.0	2150.00	638.10	643.36	0.0	11.33	1164.01	1209.82	189.76	0.0
14488.000	25.00	0.0	0.0	3350.00	638.10	644.87	644.79	12.96	1160.49	1210.72	258.52	1.51
14488.000	25.00	0.0	0.0	3810.00	638.10	645.51	645.51	13.06	1153.88	1211.10	291.65	0.65
14488.000	25.00	0.0	0.0	4840.00	638.10	646.61	646.61	13.61	1149.40	1213.49	355.50	1.09
14489.000	1.00	654.10	652.60	2150.00	638.10	643.67	0.0	10.57	1163.61	1210.01	203.47	0.0
14489.000	1.00	654.10	652.60	3350.00	638.10	645.53	0.0	11.45	1153.71	1211.11	292.52	1.85
14489.000	1.00	654.10	652.60	3810.00	638.10	646.18	0.0	11.56	1150.93	1211.49	329.59	0.65
14489.000	1.00	654.10	652.60	4840.00	638.10	647.36	0.0	11.98	1146.74	1217.12	404.10	1.18
14512.000	23.30	654.10	652.60	2150.00	638.10	644.88	0.0	8.30	1160.36	1210.73	259.15	0.0
14512.000	23.30	654.10	652.60	3350.00	638.10	646.88	0.0	8.99	1148.43	1214.81	372.64	2.00
14512.000	23.30	654.10	652.60	3810.00	638.10	647.50	0.0	9.19	1146.20	1217.84	414.40	0.62
14512.000	23.30	654.10	652.60	4840.00	638.10	648.70	0.0	9.63	1142.95	1221.45	502.37	1.20
14513.000	1.00	0.0	0.0	2150.00	638.10	644.90	0.0	8.27	1160.22	1210.73	259.83	0.0
14513.000	1.00	0.0	0.0	3350.00	638.10	646.91	0.0	8.95	1148.34	1214.93	374.18	2.01
14513.000	1.00	0.0	0.0	3810.00	638.10	647.53	0.0	9.16	1146.12	1217.96	416.03	0.62
14513.000	1.00	0.0	0.0	4840.00	638.10	648.73	0.0	9.60	1142.95	1221.51	504.19	1.19

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
14538.000	25.00	0.0	0.0	2150.00	636.80	645.13	0.0	8.86	1086.18	1170.32	289.65	0.0
14538.000	25.00	0.0	0.0	3350.00	636.80	647.47	0.0	8.46	1056.66	1176.19	523.18	2.35
14538.000	25.00	0.0	0.0	3810.00	636.80	648.18	0.0	8.45	1043.52	1177.96	613.38	0.71
14538.000	25.00	0.0	0.0	4840.00	636.80	649.55	0.0	8.45	1031.61	1185.83	813.96	1.37
14563.000	25.00	0.0	0.0	2150.00	635.50	645.98	0.0	5.64	1060.31	1175.69	499.96	0.0
14563.000	25.00	0.0	0.0	3350.00	635.50	648.06	0.0	6.04	1032.14	1184.75	785.33	2.08
14563.000	25.00	0.0	0.0	3810.00	635.50	648.73	0.0	6.16	1030.28	1188.59	888.47	0.66
14563.000	25.00	0.0	0.0	4840.00	635.50	650.02	0.0	6.44	1026.67	1196.05	1099.63	1.29
17288.000	2725.00	0.0	0.0	2050.00	642.80	651.92	0.0	4.67	1169.18	1660.50	875.86	0.0
17288.000	2725.00	0.0	0.0	3150.00	642.80	652.84	0.0	4.37	1149.46	1668.48	1344.11	0.92
17288.000	2725.00	0.0	0.0	3580.00	642.80	653.19	0.0	4.27	1145.25	1671.46	1524.41	0.35
17288.000	2725.00	0.0	0.0	4530.00	642.80	653.95	0.0	4.06	1135.96	1678.03	1951.44	0.76

SUMMARY OF ERRORS

CAUTION SECNO= 1573.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 1573.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 1573.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 1573.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 1573.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 1573.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 1573.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 1573.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 1573.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 1573.000 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 1573.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 1573.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 6891.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 6891.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 6891.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 6891.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 6891.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 6891.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 6891.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 6891.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 6891.000 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 6891.000 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=10410.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=10410.000 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=10410.000 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=10410.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=10410.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=10410.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=10410.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=10410.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=10410.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO=10410.000 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=10410.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=10410.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=10410.000 PROFILE= 4 CRITICAL DEPTH ASSUMED