

Gietnet

Branch

\*E CANGIETNER  
\*TY

CITY OF HILKORY FIS 10, 50, 100 & 500 YEAR FLOODS  
10 YEAR FLOOD PROFILE CODED BY RDD CHECKED BY C&B  
GIETNER BRANCH O'BRIEN & GERE INC/ENGINEERS

DATE: 04-11  
TIME: 10:02

Station	10 Year	50 Year	100 Year	500 Year	10 Year	50 Year	100 Year	500 Year	10 Year	50 Year	100 Year	500 Year
1.000 T1												
2.000 T2												
3.000 T3												
4.000 J1												
5.000 J2	1		1									
5.100 J3	100	105	150	213	-8	16	26	33	40	55		
5.110 J3	71	76	90	99	100	109	130					
5.130 J6	1											
5.200 O1	4	1300A	22262	27013	39751							
5.210 NC	.08	.04	.04									
5.220 X1	5021	37	650	776								
5.230 X3	10											
5.240 GR	928.5	200	880.5	300	872.5	357	873.5	398	876.5	418		
5.250 GR	877.0	448	878.0	470	874.5	479	883.0	498	877.0	521		
5.260 GR	877.5	551	878.0	584	874.5	628	873.5	650	870.0	660		
5.270 GR	867.0	662	866.5	680	865.2	700	865.0	720	866.5	740		
5.280 GR	867.0	760	870.0	762	876.5	776	875.5	787	874.5	805		
5.290 GR	876.0	821	876.0	875	875.5	922	875.0	1094	875.0	1032		
5.300 GR	876.0	1072	877.0	1088	879.0	1098	875.0	1102	875.0	1108		
5.310 GR	876.0	1115	923.5	1220								
5.400 X1	5021	37	650	776	200	200	200					
5.410 X3	10											
5.420 GR	928.5	200	880.5	300	872.5	357	873.5	398	876.5	418		
5.430 GR	877.0	448	878.0	470	876.5	479	883.0	498	877.0	521		
5.440 GR	877.5	551	878.0	584	876.5	628	873.5	650	870.0	660		
5.450 GR	867.0	662	866.5	680	865.2	700	865.0	720	866.5	740		
5.460 GR	867.0	760	870.0	762	876.5	776	875.5	787	874.5	805		
5.470 GR	876.0	821	876.0	875	875.5	922	875.0	1004	875.0	1032		
5.480 GR	876.0	1072	877.0	1088	879.0	1098	875.0	1102	875.0	1108		
5.490 GR	876.0	1115	923.5	1220								
6.000 NC	.06	.07	.04	.3	.5							
7.000 O1	4	1720	2682	3106	3717							
8.000 X15401.1		45	1752	1821	240	240	240					
9.000 X3	10											
9.100 GR	903.0	200	888.0	270	801.5	320	880.5	399	880.0	513		
9.110 GR	879.0	627	878.5	748	879.0	883	879.0	1011	878.5	1142		
9.120 GR	878.0	1241	878.5	1372	877.5	1533	876.5	1597	876.0	1697		
9.130 GR	874.0	1752	871.0	1769	869.8	1770	868.0	1790	869.7	1810		
9.140 GR	871.0	1811	874.0	1821	877.0	1848	876.5	1918	876.0	2037		
9.150 GR	875.5	2211	874.0	2253	875.0	2273	875.5	2360	875.0	2510		
9.160 GR	874.0	2634	876.0	2677	876.0	2797	875.0	2865	874.0	2930		
9.170 GR	870.0	2948	868.9	2949	868.0	2955	869.0	2960	870.0	2961		
9.180 GR	875.0	2970	874.0	3009	873.5	3211	897.5	3296	902.0	3378		
10.000 O1	4	1355	2046	2332	2688							
11.000 X15401.2		6	903	976	350	350	350					
12.000 X3	10											
13.000 GR	924.5	200	934	903	875	904	875	885	885	926		
14.000 GR	942	1558										
15.000 SB	1.25	2.49	2.7	400	21	1	180		875	870		
16.000 X15401.3			903	926	860	860	860		5			
17.000 X2			1	884	934							
18.000 X3	10								934	934		
19.000 NC	.08	.08	.04									



55.100 GR1030.0	200	1027.0	250	1026.0	265	1004.0	308	1001.0	330
55.110 GR 994.0	350	992.0	358	991.6	359	991.6	360	991.6	361
55.120 GR 992.0	362	994.0	372	1014.0	399	1015.0	484	1024.0	510
55.130 GR1025.5	630	1030.0	661	1035.0	691	1048.5	733	1040.5	760
55.140 GR1041.5	812	1049.0	841	1053.0	880				
56.000 NC .08	.06	.04							
57.000 RT 4	310	532	647	847					
58.000 X15405.1	22	524	320	320	320	320			
58.100 GR1033.0	200	1028.0	278	1025.0	335	1022.0	390	1020.0	430
58.110 GR1016.0	491	1094.0	524	1003.0	535	1002.6	536	1002.6	537
58.120 GR1002.6	538	1003.0	539	1004.0	543	1007.5	560	1008.5	572
58.130 GR1014.5	594	1015.0	631	1023.5	670	1025.0	706	1024.0	756
58.140 GR1031.0	800	1038.0	836		20	20			
59.000 X15405.2		527	534	20			1010.5	1010.5	
60.000 X3 10									
61.000 NC .08	.06	.022							
62.000 SB	2.31	2.7	4.28	240	240	63	1004.2	1002.2	
63.000 X1 5405.5	11	495	503	240	240				
64.000 X2	1	1014.2	1016.5						
65.000 X3 10									
66.000 RT 11	200	1027	387	1017.5	1017.5	1019.5	1019.5	1019.5	
67.000 RT 495	1016.5	1009	496.5	1016.5	1013	499	1016.5	1014.2	501.5
68.000 RT1016.5	1013	503	1016.5	1009	529	1017	598	1019.5	
69.000 RT	850	1043							
70.000 GR 1027	200	1017.5	307	1016.5	458	1009	495	1005	496.5
71.000 GR1004.2	499	1005	501.5	1009	503	1017	529	1019.5	598
72.000 GR 1043	850								
73.000 NC .09	.04	.04							
74.000 X15405.4	24	540	558	40	40	40			
74.100 GR1034.5	200	1035.0	243	1028.5	263	1018.0	282	1018.5	365
74.110 GR1017.5	422	1016.5	515	1008.0	540	1007.0	546	1006.5	547
74.120 GR1006.5	548	1006.5	549	1007.0	550	1007.5	558	1008.0	580
74.130 GR1011.5	610	1024.0	673	1028.0	705	1031.0	730	1032.0	750
74.140 GR1030.0	760	1030.0	774	1032.5	780	1034.5	808		
75.000 NC .09	.06	.05							
76.000 X15406.1	17	421	443	400	400	400			
76.100 GR1049.5	200	1043.0	283	1033.0	336	1024.0	391	1019.0	421
76.110 GR1016.5	428	1016.1	439	1016.1	430	1016.1	432	1016.5	433
76.120 GR1020.0	443	1023.0	480	1025.0	521	1026.0	555	1029.0	575
76.130 GR1030.0	600	1030.5	625						
77.000 X15406.2	11	391.5	398.5	70	70	70			
78.000 X3 10									
79.000 GR 1056	200	1038.5	380	1021	391.5	1018.5	1025	1025	395
80.000 GR1018.5	397.5	1021	398.5	1035	415	1034.5	445	1034.5	490
81.000 GR1038.5	611								
82.000 NC .09	.06	.024							
83.000 SB	1.9	2.7	391.5	100.5	100.5	100.5	38.48	1017.5	1016.9
84.000 X15406.3									
85.000 X2	1	1024.5	1034.5						
86.000 X3 10									
87.000 RT 11	200	1056	380	1038.5	1038.5	1034.5	1034.5	1034.5	1021
88.000 RT 392.5	1037.5	1023.5	395	1037.5	1024.5	397.5	1037.5	1023.5	398.5
89.000 RT1037.5	1021	415	1035.5	445	1034.5		490	1034.5	
90.000 RT	611	1038.5							
91.000 NC .07	.08	.04							





178.000 SH	1.91	2.7	914	921	102	102	38.4B	1036.2	1035.8
179.000 X15408.3			1	1043.2	1054				
180.000 X2									
181.000 X3								1054	1054
182.000 BT	691	1063.5		731	1056			904	1054
183.000 BT	1054	1039.7		915	1054	1042.2	917.5	1054	920
184.000 BT	1054	1039.7		1054	1039.7	930	1054	970	1057
185.000 BT	1260	1082							
186.000 NC	.11	.06							
187.000 X15408.4	16	390		419	94	94	94		
187.100 GR1074.0	200	1063.5		253	1052.0	307	1044.5	358	1043.0
187.110 GR1039.0	403	1038.3		404	1038.3	407	1038.7	410	1039.0
187.120 GR1042.0	419	1044.0		441	1053.0	462	1057.0	498	1063.0
187.130 GR1073.5	577								562
188.000 NC	.11	.04							
189.000 X15409.1	18	428		448	540	540	540		
190.000 X3	10								
190.100 GR1079.0	200	1071.5		249	1068.0	315	1060.5	375	1060.0
190.110 GR1050.0	428	1047.5		431	1047.2	432	1047.0	436	1047.1
190.120 GR1047.5	441	1054.0		448	1068.5	470	1060.0	501	1072.5
190.130 GR1075.0	602	1075.0		670	1079.5	730			509
191.000 X15409.2	9	762		748	70	70	70		
192.000 X3	10								
193.000 GR1091.5	200	1068.5		638	1066.5	709	1066	1055	1055
194.000 GR1056.5	767	1065		768	1073	951	1083	762	1056.5
195.000 NC	.11	.024						1101	
196.000 SH	9.03	2.7		768	338	14.52		1056.5	1047.6
197.000 X15409.3		762		768	521	521	521	8.9	
198.000 X2	1	1060.8							
199.000 X3	10								
200.000 BT	7	1093.5		638	1068.5			1065.2	1065.2
201.000 BT	763	1066		767	1066	1060.8	951	709	1066.5
202.000 BT	1083							1073	1101
203.000 NC	.1	.04							
204.000 X15409.4	27	450		469	70	70	70		
204.100 GR1089.5	200	1084.0		252	1080.5	299	1075.0	330	1069.5
204.110 UR1066.5	390	1065.0		408	1065.0	432	1063.5	441	1058.5
204.120 GR1056.5	453	1056.2		454	1056.0	457	1056.2	461	1056.5
204.130 GR1058.5	469	1061.0		481	1064.5	496	1069.0	513	1072.0
204.140 GR1073.5	665	1076.0		684	1079.0	706	1084.0	737	1087.0
204.150 GR1089.5	793	1089.5		813					773
205.000 NC	.1	.04							
206.000 X1	18	650		668	470	470	470		
207.000 X3	10								
207.140 BR1083.0	612	1079.0		620	1072.0	633	1070.5	650	1068.5
207.150 BR1068.3	660	1068.0		662	1068.4	664	1068.5	665	1071.0
207.160 GR1073.0	672	1078.0		682	1084.0	706	1093.0	730	1096.5
207.170 GR1098.0	800	1100.0		804	1107.0	813			773
208.000 EJ									
209.000 T1									
210.000 T2									
211.000 T3									
212.000 J1									
213.000 J2									
214.000 T1									

CITY OF HICKORY FIS 10, 50, 100 & 500 YEAR FLOODS  
50 YEAR FLOOD PROFILE  
GIETNER BRANCH  
3  
CITY OF HICKORY FIS 10, 50, 100 & 500 YEAR FLOODS  
885.63

215.000 T2  
 215.000 T3  
 217.000 J1  
 218.000 J2  
 219.000 J1  
 220.000 T2  
 221.000 T3  
 222.000 J1  
 223.000 J2  
 224.000  
 225.000  
 226.000  
 227.000 ER

—EUF HIT AFTER 227.

—CL:LBL SYNTAX

100 YEAR FLOOD PROFILE  
 GETHER BRANCH

887.56

3  
 CITY OF HICKORY FIS 10, 50, 100 & 500 YEAR FLOODS  
 500 YEAR FLOOD PROFILE  
 GETHER BRANCH  
 5

092.44

11:32 04/19/79 0861027 1B-B [48]



BIETNER BRANCH D

SUMMARY PRINTOUT TABLE 100

SECNO	EGLWC	ELLC	EGPRS	ELTRD	QPR	QWEIR	CLASS	HS	DEPTH	CMSEL	VCH	ES
5401.301	883.22	884.00	.00	934.00	1355.00	.00	1.00	.06	6.87	881.87	9.34	883.22
5401.301	887.27	884.00	891.03	934.00	2046.00	.00	10.00	.07	15.42	890.42	6.24	891.03
5401.301	889.11	884.00	894.42	934.00	2332.00	.00	10.00	.07	18.90	893.90	5.79	894.42
5401.301	893.58	884.00	901.38	934.00	2680.00	.00	10.00	.05	26.02	901.02	4.82	901.38
5402.301	913.01	911.70	909.40	957.00	1226.00	.00	2.00	.00	7.94	912.64	4.94	913.01
5402.301	915.55	911.70	919.95	957.00	1840.00	.00	10.00	.00	15.05	919.75	3.55	919.95
5402.301	916.53	911.70	925.34	957.00	2099.00	.00	10.00	.00	20.51	925.21	2.89	925.34
5402.301	917.65	911.70	932.75	957.00	2405.00	.00	10.00	.00	27.96	932.66	2.38	932.75
5404.301	996.66	998.60	.00	1019.50	509.00	.00	59.00	.00	4.29	993.89	11.72	996.66
5404.301	998.20	998.60	.00	1019.50	732.00	.00	59.00	.00	5.45	995.05	13.21	997.76
5404.301	998.83	998.60	989.75	1019.50	847.00	.00	59.00	.00	6.01	995.61	13.84	998.58
5404.301	1000.00	998.60	991.84	1019.50	1047.00	.00	59.00	.00	6.92	996.52	14.81	999.93
54053.000	1011.22	1014.20	.00	1016.50	310.00	.00	59.00	.00	4.75	1008.95	11.24	1010.91
54053.000	1015.25	1014.20	1009.31	1016.50	532.00	.00	59.00	.00	6.42	1010.62	13.38	1013.40
54053.000	1017.33	1014.20	1010.77	1016.50	647.00	.00	59.00	.00	7.18	1011.38	14.29	1014.55
54053.000	1019.58	1014.20	1014.18	1016.50	847.00	.00	10.00	.00	8.69	1012.89	14.33	1016.08
5406.301	1024.40	1024.50	.00	1034.50	310.00	.00	59.00	.00	6.68	1024.18	8.66	1025.35
5406.301	1026.96	1024.50	1029.15	1034.50	532.00	.00	10.00	.00	10.70	1028.19	7.84	1029.15
5406.301	1028.14	1024.50	1032.52	1034.50	647.00	.00	10.00	.00	14.33	1031.83	6.93	1032.57
5406.301	1030.04	1024.50	1039.72	1034.50	706.94	.00	30.00	.00	17.54	1035.04	5.45	1035.39
5411.301	1018.28	1018.80	1017.44	1028.20	310.00	.00	59.00	.00	6.58	1017.70	8.74	1018.96
5411.301	1020.77	1018.80	1022.88	1028.20	532.00	.00	10.00	.00	10.73	1021.93	7.81	1022.88
5411.301	1021.96	1018.80	1026.30	1028.20	647.00	.00	10.00	.00	14.36	1025.56	6.92	1026.30
5411.301	1023.87	1018.80	1033.41	1028.20	785.06	.00	30.00	.00	20.03	1031.23	4.16	1031.40
5407.301	1034.26	1032.30	1057.48	1033.50	113.37	196.66	30.00	.00	5.97	1034.27	8.04	1034.91
5407.301	1035.54	1032.30	1110.17	1033.50	99.12	438.17	30.00	.00	6.70	1035.00	8.55	1035.50
5407.301	1035.92	1032.30	1147.91	1033.50	93.95	553.64	30.00	.00	6.88	1035.18	9.04	1035.70
5407.301	1036.36	1032.30	1230.60	1033.50	89.22	763.89	30.00	.00	7.14	1035.44	9.82	1035.96
5414.301	1015.88	1020.30	.00	1029.00	600.00	.00	59.00	.00	6.14	1013.44	12.79	1015.98
5414.301	1018.81	1020.30	.00	1029.00	1000.00	.00	59.00	.00	8.12	1015.42	15.15	1019.03
5414.301	1020.12	1020.30	.00	1029.00	1200.00	.00	59.00	.00	9.00	1016.38	16.10	1020.40
5414.301	1021.36	1020.30	1007.26	1029.00	1400.00	.00	59.00	.00	9.95	1017.25	16.92	1021.70
5412.301	1038.07	1032.60	1040.82	1039.50	515.86	28.58	30.00	.00	12.64	1038.24	10.76	1040.04
5412.301	1042.87	1032.60	1055.70	1039.50	462.05	419.59	30.00	.00	14.51	1040.11	12.73	1042.22
5412.301	1044.96	1032.60	1065.02	1039.50	425.40	626.75	30.00	.00	15.76	1041.36	11.61	1042.84
5412.301	1043.46	1032.60	1084.53	1039.50	184.85	1109.37	30.00	.00	16.45	1042.05	12.00	1043.46

SECNO	CUSBL	HL	GLOSS	TOPWIN	GLBB	GEN	OROR						
5408.301	1045.79	1043.70	1048.42	1054.00	544.00	.00	10.00	.00	11.25	1047.55	7.50	1048.42	
5408.301	1049.03	1054.00	1060.14	1054.00	719.18	162.00	30.00	.00	18.25	1054.45	6.34	1054.99	
5408.301	1050.45	1054.00	1067.25	1054.00	703.97	340.29	30.00	.00	18.50	1054.70	7.35	1055.42	
5408.301	1052.47	1043.20	1079.90	1054.00	677.00	618.27	30.00	.00	18.55	1054.75	9.03	1055.85	
5409.301	1067.55	1066.00	1252.13	1066.00	136.33	210.91	30.00	.00	8.56	1065.06	12.96	1067.67	
5409.301	1068.70	1068.00	1274.08	1066.00	117.53	725.98	30.00	.00	11.73	1068.23	9.34	1069.12	
5409.301	1068.94	1068.00	1781.40	1064.00	117.31	925.12	30.00	.00	12.04	1068.58	9.58	1069.42	
5409.301	1069.25	1068.00	2162.90	1086.00	117.21	1176.48	30.00	.00	13.37	1068.87	10.45	1069.78	

GLETNER BRANCH

SUMMARY PRINTOUT TABLE 105

SECNO	CUSBL	HL	GLOSS	TOPWIN	GLBB	GEN	OROR						
5401.102	881.67	.00	.06	2921.20	407.71	222.97	1089.32	.00					
5401.102	885.93	.00	.05	2969.07	955.10	229.12	1497.78	.00					
5401.102	887.85	.00	.05	2990.68	1192.40	237.28	1676.31	.00					
5401.102	892.72	.00	.05	3031.10	1586.09	235.46	1895.45	.00					
5401.199	881.81	.37	.23	21.40	.00	1355.00	.00	.00					
5401.199	886.03	.38	.28	21.54	.00	2046.00	.00	.00					
5401.199	887.93	.37	.29	21.61	.00	2332.00	.00	.00					
5401.199	892.76	.27	.24	21.77	.00	2688.00	.00	.00					
5401.301	881.87	.96	.00	21.23	.00	1355.00	.00	.00					
5401.301	890.42	4.44	.00	21.52	.00	2046.00	.00	.00					
5401.301	893.90	5.91	.00	21.64	.00	2332.00	.00	.00					
5401.301	901.02	8.15	.00	21.88	.00	2688.00	.00	.00					
5401.398	883.76	2.51	.36	37.03	.00	1355.00	.00	.00					
5401.398	891.17	.08	.15	201.37	36.54	1281.05	728.41	.00					
5401.398	894.55	.03	.14	223.70	71.94	1247.59	1012.47	.00					
5401.398	901.47	.01	.10	271.40	148.03	1174.58	1365.39	.00					
5402.102	900.75	16.50	.11	37.50	6.86	1186.96	30.18	.00					
5402.102	901.48	16.94	-7.24	40.22	25.32	1750.70	63.98	.00					
5402.102	901.90	16.53	-7.06	41.80	37.91	1975.53	85.56	.00					
5402.102	904.03	3.22	.66	49.83	102.84	2131.50	170.66	.00					
5402.199	902.03	.66	.14	29.00	.00	1226.00	.00	.00					
5402.199	903.36	.79	.25	29.00	.00	1640.00	.00	.00					
5402.199	903.76	.84	.24	29.00	.00	2099.00	.00	.00					
5402.199	904.42	.56	.17	29.00	.00	2409.00	.00	.00					
5402.301	912.64	10.09	.00	38.00	.00	1226.00	.00	.00					
5402.301	919.75	15.28	.00	38.00	.00	1840.00	.00	.00					
5402.301	925.21	26.06	.00	38.00	.00	2099.00	.00	.00					
5402.301	932.66	26.66	.00	38.00	.00	2409.00	.00	.00					
5402.398	913.41	1.11	.34	37.45	.00	1226.00	.00	.00					

5402.398	919.83	.11	.03	124.91	79.83	1651.67	108.50
5402.398	925.33	.03	.02	251.37	245.65	1107.75	445.60
5402.398	932.77	.01	.02	346.09	552.58	1156.19	696.23

54041.000	983.40	37.89	.07	49.36	3.70	840.30	299.00
* 54041.000	984.31	41.07	-8.84	53.95	10.17	1250.23	445.39
* 54041.000	984.68	39.54	-8.63	55.80	13.86	1420.94	510.19
* 54041.000	985.08	38.10	-8.23	57.80	10.63	1613.02	585.35
5404.199	985.37	1.47	.12	10.37	.00	509.00	.00
5404.199	986.36	1.70	.08	10.43	.00	732.00	.00
5404.199	986.54	1.88	.02	10.44	.00	847.00	.00
5404.199	986.95	2.19	.32	10.47	.00	1047.00	.00

1

SECNO	CWSEL	HL	OLOSS	TOPWID	RLOB	RCH	RPOB
* 5404.301	993.89	3.67	2.34	10.26	.00	509.00	.00
* 5404.301	995.05	3.94	2.83	10.34	.00	732.00	.00
* 5404.301	995.61	4.07	3.06	10.37	.00	847.00	.00
* 5404.301	996.52	4.27	3.30	10.43	.00	1047.00	.00
5404.398	996.35	.46	.46	31.89	11.47	492.66	4.87
5404.398	998.28	.30	.68	40.02	38.10	677.73	16.17
5404.398	999.18	.25	.77	43.80	55.77	767.56	23.67
5404.398	1000.65	.20	.91	49.97	91.84	916.18	38.98
* 5405.102	1005.71	4.94	- .95	27.74	9.36	281.16	19.48
* 5405.102	1006.61	4.40	-1.21	34.97	27.27	447.95	56.78
* 5405.102	1007.02	4.15	-1.16	38.24	38.97	526.89	81.14
* 5405.102	1007.69	3.65	-1.00	45.01	62.44	650.32	134.24
5405.199	1006.31	.18	.10	14.00	.00	310.00	.00
5405.199	1006.75	.27	.13	14.00	.00	532.00	.00
5405.199	1006.99	.29	.32	14.00	.00	647.00	.00
* 5405.199	1007.70	.34	.48	14.00	.00	847.00	.00
* 54053.000	1008.95	2.61	.14	7.96	.00	310.00	.00
* 54053.000	1010.62	2.65	.88	8.00	.00	532.00	.00
* 54053.000	1011.38	2.70	1.09	8.00	.00	647.00	.00
* 54053.000	1012.89	.00	.00	8.00	.00	847.00	.00
5405.398	1011.47	.05	.57	79.91	10.24	187.31	112.45
5405.398	1014.20	.02	.82	101.86	30.60	270.85	230.55
5405.398	1015.47	.02	.94	111.99	43.76	311.13	292.11
5405.398	1017.00	.01	.95	168.88	69.77	382.46	394.77
* 5406.102	1019.38	12.43	-5.64	22.52	.42	309.58	.00
* 5406.102	1020.30	10.19	-4.47	33.52	9.96	521.41	.62
* 5406.102	1020.72	8.91	-3.81	41.22	19.63	621.37	5.99
* 5406.102	1021.34	7.60	-3.14	52.56	41.11	777.03	28.86
* 5406.199	1021.81	3.43	.11	7.00	.00	310.00	.00
* 5406.199	1023.51	3.60	-.08	7.00	.00	532.00	.00

SECNO	CWSEL	HL	GLSS	TOPWD	BLDB	NCB	GRSB
* 5406.199	1024.23	3.80	-09	7.00	.00	647.00	.00
* 5406.199	1025.43	1.82	.42	16.23	27.43	727.72	91.84
5406.301	1024.18	1.30	.25	7.00	.00	310.00	.00
5406.301	1024.19	2.79	.00	7.00	.00	532.00	.00
5406.301	1031.83	5.03	.00	7.00	.00	647.00	.00
5406.301	1035.04	7.35	.00	124.08	47.48	630.49	169.03
5406.398	1025.90	.57	.26	62.06	4.99	265.03	39.98
5406.398	1029.44	.08	.27	97.58	27.83	295.57	208.59
5406.398	1032.79	.02	.22	147.65	60.41	285.96	300.63
5406.398	1035.48	.01	.10	170.20	107.22	319.56	430.22
* 54053.000	1009.10	.00	.00	8.00	.00	310.00	.00
* 54053.000	1011.12	.00	.00	25.34	27.62	480.52	23.86
* 54053.000	1011.73	.00	.00	30.32	52.18	549.74	45.08
* 54053.000	1012.89	.00	.00	39.81	115.92	630.96	100.13
* 5411.199	1015.52	6.21	.14	7.00	.00	310.00	.00
* 5411.199	1017.24	6.80	-.92	7.00	.00	532.00	.00
* 5411.199	1017.96	6.86	-1.01	7.00	.00	647.00	.00
* 5411.199	1019.12	3.31	.14	16.22	49.05	724.97	72.98
5411.301	1017.78	1.22	.24	7.00	.00	310.00	.00
5411.301	1021.93	2.82	.60	7.00	.00	532.00	.00
5411.301	1035.56	5.06	.00	7.00	.00	647.00	.00
5411.301	1031.23	9.70	.00	301.07	50.34	546.34	250.32
* 5407.102	1029.97	9.27	-2.68	23.31	.50	253.55	55.95
* 5407.102	1031.13	6.07	-2.33	59.75	11.02	394.80	126.18
* 5407.102	1031.59	5.17	-2.04	83.39	19.64	445.42	181.94
* 5407.102	1032.51	1.49	.21	136.50	39.14	470.37	337.49
* 5407.199	1031.03	.04	.14	112.96	59.25	186.19	64.56
* 5407.199	1032.29	.03	.26	279.65	161.03	154.51	216.47
5407.199	1032.72	.02	.26	330.86	234.79	144.86	267.35
5407.199	1033.19	.02	.15	402.92	354.36	143.99	348.65
* 5407.301	1034.27	.16	.16	130.63	48.70	192.05	69.24
* 5407.301	1035.00	.15	-.15	222.81	109.04	228.98	193.98
* 5407.301	1035.18	.16	-.16	248.97	150.28	249.00	247.72
* 5407.301	1035.44	.19	-.19	284.67	228.15	280.35	338.50
5407.398	1034.69	.18	.05	15.00	.00	310.00	.00
5407.398	1035.04	.36	.31	15.00	.00	532.00	.00
5407.398	1035.12	.49	.54	15.00	.00	647.00	.00
5407.398	1036.09	.06	.14	188.84	.00	199.12	647.88
* 54041.000	983.53	.00	.00	50.01	545.10	597.90	.00
* 54041.000	984.43	.00	.00	54.55	848.11	857.89	.00
* 54041.000	984.80	.00	.00	56.40	980.37	984.63	.00
* 54041.000	985.19	.00	.00	58.36	1132.34	1084.65	.00

SECNO	CUSEL	HL	OLDS	TPWD	QLOB	RCH	ORDR
* 5414.199	989.24	2.44	.44	10.00	.00	600.00	.00
* 5414.199	991.19	2.52	.72	10.00	.00	1000.00	.00
* 5414.199	992.07	2.57	.83	10.00	.00	1300.00	.00
* 5414.199	992.90	2.63	.94	10.00	.00	1400.00	.00
* 5414.301	1013.44	9.02	5.51	10.00	.00	600.00	.00
* 5414.301	1015.47	7.40	5.73	10.00	.00	1000.00	.00
* 5414.301	1016.38	9.63	5.87	10.00	.00	1200.00	.00
* 5414.301	1017.25	9.83	5.99	10.00	.00	1400.00	.00
* 5412.102	1017.38	1.14	.65	40.55	.13	598.68	1320
* 5412.102	1020.23	.50	.98	73.79	21.49	945.34	33.17
* 5412.102	1021.65	.35	1.14	85.60	51.33	1079.86	68.60
* 5412.102	1023.02	.26	1.27	93.15	88.02	1199.66	112.32
* 5412.199	1033.08	17.13	-5.82	4.00	.00	544.00	.00
* 5412.199	1035.46	5.00	-.03	12.14	57.63	779.19	43.18
* 5412.199	1036.53	4.82	.20	13.04	74.83	911.10	56.07
* 5412.199	1041.16	1.29	.15	152.80	359.29	809.03	119.69
* 5412.301	1030.24	2.77	.00	4.00	.00	544.00	.00
* 5412.301	1040.11	-11	-.11	112.07	85.19	738.48	56.02
* 5412.301	1041.36	.08	-.08	148.34	228.58	731.94	81.48
* 5412.301	1042.05	.08	-.08	153.59	370.31	794.81	122.68
* 5408.102	1040.79	.34	.51	53.04	45.58	479.56	18.86
* 5408.102	1042.97	.30	.59	64.02	94.73	734.55	50.72
* 5408.102	1043.38	.32	.39	66.06	116.49	861.06	64.45
* 5408.102	1043.77	.38	.35	69.04	151.58	1048.92	87.51
* 5408.199	1042.49	4.85	-1.00	7.00	.00	544.00	.00
* 5408.199	1044.53	2.71	.22	14.08	33.24	818.27	28.49
* 5408.199	1045.50	2.58	.40	15.23	48.52	951.89	41.59
* 5408.199	1045.67	2.47	.62	16.79	75.21	1148.33	64.46
* 5408.301	1047.55	3.04	.00	7.00	.00	544.00	.00
* 5408.301	1054.45	7.13	.00	70.43	62.42	764.75	52.83
* 5408.301	1054.70	6.44	.00	94.95	78.01	899.62	64.38
* 5408.301	1054.75	5.33	.00	101.31	98.04	1109.78	80.17
* 5408.398	1048.67	.02	.25	120.27	73.78	364.81	105.41
* 5408.398	1055.14	.00	.16	172.32	206.71	461.58	211.71
* 5408.398	1055.63	.01	.21	183.29	250.21	538.10	253.69
* 5408.398	1056.16	.01	.32	195.38	316.15	653.96	317.89
* 5409.102	1051.54	3.46	.59	21.02	3.41	540.59	.00
* 5409.102	1055.56	.68	.26	35.69	46.65	832.43	.92
* 5409.102	1056.06	.74	.31	37.64	61.41	978.55	2.03
* 5409.102	1056.63	.87	.40	39.09	84.63	1199.13	4.24
* 5409.199	1055.31	4.63	-.80	5.62	.00	544.00	.00





SECNO	ALCH	ELTRD	ELLC	ELMIN	Q	CMSL	CRINS	EO	10K*5	UCH	AREA	348.15
5402.102	1340.00	.00	.00	075.60	2405.00	904.03	.00	905.36	47.72	9.69	278.15	348.15
5402.199	104.00	.00	.00	075.60	1226.00	902.03	.00	902.92	47.25	7.56	162.09	178.35
5402.199	104.00	.00	.00	075.60	1840.00	903.36	.00	904.67	54.52	9.17	200.55	249.20
5402.199	104.00	.00	.00	075.60	2099.00	903.76	.00	905.28	59.64	9.90	212.08	271.80
5402.199	104.00	.00	.00	075.60	2405.00	904.42	.00	906.10	59.98	10.40	231.18	310.54
5402.301	806.50	957.00	911.70	904.70	1226.00	912.64	.00	913.01	17.22	4.94	240.36	295.45
5402.301	806.50	957.00	911.70	904.70	1840.00	919.75	.00	919.93	3.73	3.35	518.75	952.78
5402.301	806.50	957.00	911.70	904.70	2099.00	925.21	.00	925.34	1.76	2.89	726.30	1383.61
5402.301	806.50	957.00	911.70	904.70	2405.00	932.64	.00	932.75	.89	2.38	1009.43	2343.97
5402.398	210.00	.00	.00	908.10	1226.00	913.41	.00	914.46	80.72	8.24	148.86	130.16
5402.398	210.00	.00	.00	908.10	1840.00	919.83	.00	920.08	6.55	4.21	598.95	718.69
5402.398	210.00	.00	.00	908.10	2099.00	925.33	.00	925.39	1.13	2.34	1639.51	1959.31
5402.398	210.00	.00	.00	908.10	2405.00	932.77	.00	932.70	.21	1.31	3856.82	5191.45
5403.000	1310.00	.00	.00	940.00	1226.00	945.20	945.20	946.91	219.92	10.55	125.57	82.67
5403.000	1310.00	.00	.00	940.00	1840.00	946.56	946.56	948.30	181.20	11.00	217.42	144.92
5403.000	1310.00	.00	.00	940.00	2099.00	946.98	946.98	948.76	152.80	11.37	256.72	169.81
5403.000	1310.00	.00	.00	940.00	2405.00	947.41	947.41	949.24	147.51	11.62	302.04	198.02
5404.199	60.00	.00	.00	979.40	509.00	983.37	.00	986.45	203.68	8.37	60.83	35.67
5404.199	60.00	.00	.00	979.40	732.00	986.36	.00	988.00	280.82	10.29	71.11	43.68
5404.199	60.00	.00	.00	979.40	847.00	986.34	.00	988.63	351.53	11.60	72.99	45.18
5404.199	60.00	.00	.00	979.40	1047.00	986.95	.00	989.80	465.26	13.56	77.21	48.54
5404.301	535.00	1019.50	998.60	989.60	509.00	993.89	993.89	996.02	68.61	11.72	43.43	61.45
5404.301	535.00	1019.50	998.60	989.60	732.00	995.05	995.05	997.76	73.58	13.21	55.42	85.28
5404.301	535.00	1019.50	998.60	989.60	847.00	995.61	995.61	998.58	76.00	13.84	62.19	97.16
5404.301	535.00	1019.50	998.60	989.60	1047.00	996.52	996.52	999.93	79.85	14.81	70.69	117.17
5404.398	60.00	.00	.00	991.60	509.00	996.35	.00	996.94	83.27	6.24	90.54	55.78
5404.398	60.00	.00	.00	991.60	732.00	998.28	.00	998.73	37.49	3.38	139.98	119.55
5404.398	60.00	.00	.00	991.60	847.00	999.18	.00	999.60	29.08	5.44	197.64	157.07
5404.398	60.00	.00	.00	991.60	1047.00	1000.65	.00	1001.03	20.85	5.28	266.45	229.27
5405.102	320.00	.00	.00	1002.60	310.00	1005.71	1005.71	1006.67	154.41	8.23	45.93	24.95
5405.102	320.00	.00	.00	1002.60	532.00	1006.61	1006.61	1007.84	137.51	9.57	74.18	45.37
5405.102	320.00	.00	.00	1002.60	647.00	1007.02	1007.02	1008.33	129.62	10.04	89.10	56.82
5405.102	320.00	.00	.00	1002.60	847.00	1007.59	1007.59	1009.06	113.99	10.51	116.74	79.33
5405.199	20.00	.00	.00	1002.20	310.00	1006.31	.00	1006.94	65.43	4.44	48.12	38.32
5405.199	20.00	.00	.00	1002.20	532.00	1006.75	.00	1008.25	131.62	9.80	54.29	46.37
5405.199	20.00	.00	.00	1002.20	647.00	1006.90	1006.90	1008.94	160.72	11.21	57.71	51.04
5405.199	20.00	.00	.00	1002.20	847.00	1007.70	1007.70	1010.14	169.07	12.54	67.54	65.14

7  
2

I

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CMSL	CRIMS	ED	10K*5	VCH	AREA	01K
* 54053.000	240.00	1016.50	1014.20	1004.20	310.00	1008.95	1008.95	1010.91	108.65	11.24	27.59	27.74
* 54054.000	240.00	1016.50	1014.20	1004.20	532.00	1010.62	1010.62	1013.40	110.24	13.38	39.76	50.67
* 54055.000	240.00	1016.50	1014.20	1004.20	647.00	1011.38	1011.38	1014.55	112.46	14.29	45.29	61.01
* 54056.000	240.00	1016.50	1014.20	1004.20	847.00	1012.89	.00	1016.08	89.19	14.33	59.10	89.69
* 5405.398	40.00	.00	1006.50	1006.50	310.00	1011.47	.00	1011.53	6.35	2.44	227.87	122.99
* 5405.398	40.00	.00	1006.50	1006.50	532.00	1014.20	.00	1014.24	2.55	2.15	476.62	332.97
* 5405.398	40.00	.00	1006.50	1006.50	647.00	1015.47	.00	1015.51	1.93	2.09	612.31	465.22
* 5405.398	40.00	.00	1006.50	1006.50	847.00	1017.00	.00	1017.04	1.66	2.17	803.53	656.81
* 5406.102	400.00	.00	1016.10	1016.10	310.00	1017.30	1019.38	1020.34	310.75	7.88	39.73	17.59
* 5406.102	400.00	.00	1016.10	1016.10	532.00	1020.30	1020.30	1021.49	254.77	8.84	64.62	33.33
* 5406.102	400.00	.00	1016.10	1016.10	647.00	1020.72	1020.72	1021.96	222.75	7.11	80.31	43.35
* 5406.102	400.00	.00	1016.10	1016.10	847.00	1021.34	1021.34	1022.63	189.99	9.50	109.31	51.45
* 5406.199	70.00	.00	1016.90	1016.90	310.00	1021.81	1021.81	1023.80	489.59	11.32	27.37	14.01
* 5406.199	70.00	.00	1016.90	1016.90	532.00	1023.51	1023.51	1026.36	514.01	13.55	39.27	23.47
* 5406.199	70.00	.00	1016.90	1016.90	647.00	1024.23	1024.23	1027.54	542.54	14.59	44.34	27.78
* 5406.199	70.00	.00	1016.90	1016.90	847.00	1025.43	1025.43	1028.04	259.71	13.81	75.93	52.56
* 5406.301	100.50	1034.50	1024.50	1017.50	310.00	1024.10	.00	1025.35	74.42	8.66	45.80	35.93
* 5406.301	100.50	1034.50	1024.50	1017.50	532.00	1028.19	.00	1029.15	26.96	7.84	67.87	102.47
* 5406.301	100.50	1034.50	1024.50	1017.50	647.00	1031.83	.00	1032.57	17.65	6.93	93.33	154.02
* 5406.301	100.50	1034.50	1024.50	1017.50	847.00	1035.04	.00	1035.39	3.26	5.45	334.21	469.16
SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CMSL	CRIMS	ED	10K*5	VCH	AREA	01K
* 54053.000	120.00	.00	1021.50	1021.50	310.00	1025.90	.00	1026.18	34.99	4.60	77.97	52.41
* 5405.398	120.00	.00	1021.50	1021.50	532.00	1029.44	.00	1029.50	3.65	2.44	393.21	278.58
* 5405.398	120.00	.00	1021.50	1021.50	647.00	1032.79	.00	1032.81	.89	1.57	787.54	486.99
* 5405.398	120.00	.00	1021.50	1021.50	847.00	1035.48	.00	1035.50	.50	1.39	1216.37	1193.15
* 54053.000	1.00	.00	1004.20	1004.20	310.00	1009.10	1009.10	1010.90	315.18	10.77	28.82	17.46
* 54053.000	1.00	.00	1004.20	1004.20	532.00	1011.12	1011.12	1012.73	171.34	10.69	63.33	40.64
* 54053.000	1.00	.00	1004.20	1004.20	647.00	1011.73	1011.73	1013.36	159.19	11.03	80.26	31.28
* 54053.000	1.00	.00	1004.20	1004.20	847.00	1012.89	.00	1014.26	118.67	10.68	120.93	77.75
* 5411.199	200.00	.00	1016.60	1016.60	310.00	1015.52	1015.52	1017.50	310.39	11.29	27.46	17.60
* 5411.199	200.00	.00	1016.60	1016.60	532.00	1017.24	1017.24	1020.06	324.01	13.47	39.48	29.56
* 5411.199	200.00	.00	1016.60	1016.60	647.00	1017.96	1017.96	1021.24	342.91	14.53	44.54	34.94
* 5411.199	200.00	.00	1016.60	1016.60	847.00	1019.12	1019.12	1021.70	165.66	13.77	75.77	65.81
* 5411.301	100.00	1028.20	1018.20	1017.98	310.00	1017.98	.00	1018.96	76.12	8.74	35.47	35.53
* 5411.301	100.00	1028.20	1018.20	1017.98	532.00	1021.99	.00	1022.88	26.66	7.81	68.13	102.99
* 5411.301	100.00	1028.20	1018.20	1017.98	647.00	1024.00	.00	1026.30	17.54	6.92	93.55	154.48
* 5411.301	100.00	1028.20	1018.20	1017.98	847.00	1025.23	.00	1031.40	1.53	4.10	739.19	684.03
* 5407.102	500.00	.00	1025.50	1025.50	310.00	1027.27	1029.97	1030.99	185.38	8.77	43.47	22.77
* 5407.102	500.00	.00	1025.50	1025.50	532.00	1031.13	1031.13	1032.16	121.31	9.22	84.16	48.30
* 5407.102	500.00	.00	1025.50	1025.50	647.00	1031.59	1031.59	1032.54	103.42	9.22	116.80	63.62
* 5407.102	500.00	.00	1025.50	1025.50	847.00	1032.51	.00	1033.09	57.92	7.92	217.15	111.29
* 5407.199	10.00	.00	1025.80	1025.80	310.00	1031.03	1031.03	1031.66	43.93	7.98	90.95	46.77
* 5407.199	10.00	.00	1025.80	1025.80	532.00	1032.29	.00	1032.45	15.71	5.44	337.01	134.20

Handwritten notes and signatures at the bottom left of the page.

Handwritten notes and signatures at the bottom center of the page.

Handwritten notes and signatures at the bottom right of the page.



SECNO	XLCH	ELTRD	ELLC	FELMIN	Q	CUSEL	CRIMS	EG	10K*5	VCH	AREA	AIN
5407.199	10.00	.00	.00	1025.20	647.00	1032.72	1031.94	1032.82	11.42	4.82	466.27	191.50
5407.199	10.00	.00	.00	1025.20	847.00	1033.19	.00	1033.26	9.21	4.51	641.65	279.15
5407.301	101.20	1033.50	1032.30	1028.30	310.00	1034.27	1034.94	1034.91	15.55	8.04	107.90	78.60
5407.301	101.20	1033.50	1032.30	1028.30	532.00	1035.00	1034.94	1035.50	15.09	8.55	236.17	136.97
5407.301	101.20	1033.50	1032.30	1028.30	647.00	1035.18	1035.18	1035.70	16.29	9.04	279.77	160.30
5407.301	101.20	1033.50	1032.30	1028.30	847.00	1035.44	1035.44	1035.96	18.32	9.82	346.99	197.89
5407.398	44.00	.00	.00	1040.00	510.00	1036.16	.00	1036.16	45.33	5.42	57.23	38.30
5407.398	44.00	.00	.00	1040.00	532.00	1036.17	.00	1036.17	148.40	8.51	62.51	43.96
5407.398	44.00	.00	.00	1030.00	647.00	1036.73	.00	1036.73	204.34	10.16	61.69	45.26
5407.398	44.00	.00	.00	1030.00	847.00	1036.81	1036.04	1036.16	10.32	2.55	397.50	283.70
54041.000	1.00	.00	.00	979.50	1143.00	983.53	983.53	984.95	383.86	11.94	142.41	58.34
54041.000	1.00	.00	.00	979.50	1706.00	984.43	984.43	986.19	382.73	13.44	189.63	87.20
54041.000	1.00	.00	.00	979.50	1945.00	984.80	984.80	986.66	374.19	13.85	210.08	100.55
54041.000	1.00	.00	.00	979.50	2217.00	985.19	985.19	987.15	367.03	14.27	232.56	115.72
5414.199	60.00	.00	.00	983.19	1600.00	989.24	989.24	991.68	402.15	12.53	47.07	29.74
5414.199	60.00	.00	.00	983.19	1600.00	991.19	991.19	994.61	419.91	14.83	67.41	48.80
5414.199	60.00	.00	.00	983.19	1200.00	992.07	992.07	995.92	424.56	13.75	76.18	57.97
5414.199	60.00	.00	.00	983.19	1400.00	992.94	992.94	997.16	437.75	16.57	84.47	66.91
5414.301	900.00	1029.00	1020.30	1007.30	600.00	1013.44	1013.44	1015.98	100.27	12.79	46.93	59.92
5414.301	900.00	1029.00	1020.30	1007.30	1000.00	1015.47	1015.47	1019.03	104.40	15.15	66.01	97.87
5414.301	900.00	1029.00	1020.30	1007.30	1200.00	1016.38	1016.38	1020.40	106.99	16.10	74.54	116.01
5414.301	900.00	1029.00	1020.30	1007.30	1400.00	1017.25	1017.25	1021.70	109.18	16.92	82.74	133.98
5412.102	220.00	.00	.00	1012.00	600.00	1017.76	.00	1017.76	34.92	4.98	123.01	101.54
5412.102	220.00	.00	.00	1012.00	1000.00	1020.52	.00	1020.52	12.76	4.42	285.23	279.95
5412.102	220.00	.00	.00	1012.00	1200.00	1021.89	.00	1021.89	8.61	4.14	399.64	408.96
5412.102	220.00	.00	.00	1012.00	1400.00	1023.23	.00	1023.23	6.22	3.92	522.55	561.22
5412.199	484.00	.00	.00	1024.80	544.00	1033.08	1033.08	1037.27	353.87	16.42	33.13	28.92
5412.199	484.00	.00	.00	1024.80	880.00	1035.46	1035.46	1040.06	103.28	18.28	85.98	84.59
5412.199	484.00	.00	.00	1024.80	1042.00	1036.63	1036.63	1041.68	99.58	19.23	100.80	104.42
5412.199	484.00	.00	.00	1024.80	1288.00	1041.16	1041.16	1042.66	26.66	12.36	423.42	249.46
5412.301	32.00	1039.50	1032.60	1025.60	544.00	1037.6	1037.6	1040.04	140.86	10.76	50.54	45.84
5412.301	32.00	1039.50	1032.60	1025.60	880.00	1037.02	1037.02	1042.22	33.15	12.73	165.20	152.83
5412.301	32.00	1039.50	1032.60	1025.60	1042.00	1038.24	1038.24	1042.84	24.70	11.61	333.54	209.67
5412.301	32.00	1039.50	1032.60	1025.60	1288.00	1041.85	1041.85	1043.46	25.25	12.08	437.74	256.35
5408.102	284.00	.00	.00	1032.40	544.00	1040.79	.00	1040.89	6.33	2.75	260.72	216.23
5408.102	284.00	.00	.00	1032.40	880.00	1042.27	.00	1043.11	6.19	3.24	388.37	333.66
5408.102	284.00	.00	.00	1032.40	1042.00	1043.36	.00	1043.55	7.39	3.64	414.76	383.18
5408.102	284.00	.00	.00	1032.40	1288.00	1043.97	.00	1044.19	9.04	4.18	454.72	428.49
5408.199	94.00	.00	.00	1043.40	544.00	1042.49	1042.49	1045.39	515.46	13.65	39.86	23.96
5408.199	94.00	.00	.00	1043.40	880.00	1044.63	1044.63	1047.86	288.23	14.93	73.68	51.83
5408.199	94.00	.00	.00	1043.40	1042.00	1045.50	1045.50	1048.98	274.70	15.63	86.40	62.86
5408.199	94.00	.00	.00	1043.40	1288.00	1046.67	1046.67	1050.52	262.59	16.63	105.13	79.48

T

SECNO	XLCH	ELTRD	ELLE	ELMIN	Q	CWSEL	CRIMS	EG	10K4S	VCH	AREA	OIK
5408.301	102.00	1054.00	1043.20	1036.20	544.00	1047.35	.00	1048.42	23.74	7.50	72.50	111.64
5408.301	102.00	1054.00	1043.20	1036.20	880.00	1054.45	.00	1054.99	4.17	6.34	774.91	430.78
5408.301	102.00	1054.00	1043.20	1036.20	1042.00	1054.70	.00	1055.42	5.51	7.35	295.22	443.96
5408.301	102.00	1054.00	1043.20	1036.20	1288.00	1054.75	.00	1055.85	8.28	9.03	301.47	447.55
5408.398	94.00	.00	.00	1038.30	544.00	1048.67	.00	1048.69	.98	1.48	608.07	548.81
5408.398	94.00	.00	.00	1038.30	880.00	1055.14	.00	1055.15	.24	1.06	1558.72	1805.64
5408.398	94.00	.00	.00	1038.30	1942.00	1055.63	.00	1055.64	.29	1.20	1644.62	1833.88
5408.398	94.00	.00	.00	1038.30	1288.00	1056.16	.00	1056.18	.38	1.41	1745.49	2081.31
5409.102	540.00	.00	.00	1047.00	544.00	1051.54	.00	1052.74	127.03	8.84	64.00	48.27
5409.102	540.00	.00	.00	1047.00	880.00	1055.56	.00	1056.09	24.80	6.02	177.18	176.69
5409.102	540.00	.00	.00	1047.00	1042.00	1056.04	.00	1056.69	27.18	6.50	195.46	199.88
5409.102	540.00	.00	.00	1047.00	1288.00	1056.63	.00	1057.45	31.83	7.50	217.71	228.30
5409.199	70.00	.00	.00	1047.60	544.00	1055.34	1055.31	1058.65	661.11	14.66	37.10	21.16
5409.199	70.00	.00	.00	1047.60	880.00	1056.04	1059.04	1059.80	162.72	8.87	235.53	68.99
5409.199	70.00	.00	.00	1047.60	1042.00	1057.29	1059.29	1060.04	171.88	9.27	276.45	77.48
5409.199	70.00	.00	.00	1047.60	1208.00	1057.58	1059.58	1060.35	187.70	9.87	330.41	94.01
5409.301	521.00	1066.00	1060.80	1056.60	544.00	1065.06	.00	1067.67	176.33	12.96	41.99	40.97
5409.301	521.00	1066.00	1060.80	1056.60	880.00	1068.86	1068.12	1069.12	62.57	9.34	284.25	111.25
5409.301	521.00	1066.00	1060.80	1056.60	1042.00	1068.58	1068.52	1069.42	62.86	9.58	349.60	131.43
5409.301	521.00	1066.00	1060.80	1056.60	1288.00	1068.87	1068.87	1069.78	72.11	10.45	409.12	151.68
5409.398	70.00	.00	.00	1056.00	544.00	1068.43	.00	1068.46	.80	1.65	692.04	407.35
5409.398	70.00	.00	.00	1056.00	880.00	1069.13	.00	1069.39	1.45	2.33	827.25	729.56
5409.398	70.00	.00	.00	1056.00	1042.00	1069.60	.00	1069.67	1.83	2.65	872.60	769.23
5409.398	70.00	.00	.00	1056.00	1288.00	1069.96	.00	1070.06	2.43	3.11	938.21	825.79

SECNO	Q	CWSEL	DIFUSP	DIFUSX	DIFKWS	TOPWID	XLCH
5021.000	13006.00	881.32	.00	.00	.00	817.12	.00
5021.000	22262.00	885.63	4.31	.00	.00	846.97	.00
5021.000	27015.00	887.56	1.93	.00	.00	855.26	.00
5021.000	39751.00	892.44	4.88	.00	.00	876.22	.00
5021.000	13006.00	881.41	.00	.09	.00	817.00	200.00
5021.000	22262.00	885.69	4.29	.06	.00	846.83	200.00
5021.000	27015.00	887.62	1.92	.06	.00	855.09	200.00

GIETNER BRANCH  
SUMMARY PRINTOUT TABLE 150

3/19 URBAN

5401.000	39751.00	892.49	4.87	.05	.00	875.99	200.00
5401.102	1720.00	881.67	.00	.26	.00	2921.20	240.00
5401.102	2083.00	885.93	4.26	.23	.00	2969.07	240.00
5401.102	3106.00	887.85	1.92	.23	.00	2920.61	240.00
5401.102	3717.00	892.72	4.87	.24	.00	3031.10	240.00
5401.199	1355.00	881.01	.00	.15	.00	21.40	350.00
5401.199	2046.00	886.03	4.22	.10	.00	21.54	350.00
5401.199	2332.00	887.93	1.90	.08	.00	21.61	350.00
5401.199	2688.00	892.76	4.82	.04	.00	21.77	350.00
5401.301	1355.00	881.87	.00	.06	.00	21.23	860.00
5401.301	2046.00	890.42	8.53	4.39	.00	21.52	860.00
5401.301	2332.00	893.90	3.48	5.97	.00	21.64	860.00
5401.301	2688.00	901.02	7.11	8.26	.00	21.88	860.00
5401.398	1355.00	883.76	.00	1.09	.00	37.03	150.00
5401.398	2046.00	891.17	7.41	.74	.00	201.37	150.00
5401.398	2332.00	894.55	2.37	.65	.00	223.70	150.00
5401.398	2688.00	901.47	6.92	.46	.00	271.40	150.00
5402.102	1226.00	900.75	.00	17.00	.00	37.50	1340.00
5402.102	1840.00	901.48	.72	10.31	.00	40.22	1340.00
5402.102	2099.00	901.90	.42	7.34	.00	41.80	1340.00
5402.102	2405.00	904.03	2.13	2.56	.00	49.83	1340.00
5402.199	1326.00	902.03	.00	1.28	.00	29.00	104.00
5402.199	1840.00	903.36	1.33	1.88	.00	29.00	104.00
5402.199	2099.00	903.76	.40	1.86	.00	29.00	104.00
5402.199	2405.00	904.42	.66	.39	.00	29.00	104.00
5402.301	1226.00	912.64	.00	10.60	.00	38.00	806.50
5402.301	1840.00	919.73	7.12	16.39	.00	38.00	806.50
5402.301	2099.00	925.21	5.46	21.45	.00	38.00	806.50
5402.301	2405.00	932.66	7.45	28.25	.00	38.00	806.50
5402.398	1226.00	913.41	.00	.77	.00	37.45	210.00
5402.398	1840.00	919.83	6.42	.08	.00	124.91	210.00
5402.398	2099.00	925.33	5.50	.12	.00	251.37	210.00
5402.398	2405.00	932.77	7.43	.10	.00	346.87	210.00
5403.000	1226.00	945.20	.00	31.79	.00	50.82	1310.00
5403.000	1840.00	946.56	1.36	26.73	.00	86.67	1310.00
5403.000	2099.00	946.98	.42	21.65	.00	99.64	1310.00
5403.000	2403.00	947.41	.43	14.64	.00	112.77	1310.00
54041.000	1143.00	983.40	.00	38.30	.00	49.36	1440.00
54041.000	1706.00	984.31	.91	37.75	.00	53.95	1440.00
54041.000	1945.00	984.68	.37	37.70	.00	55.80	1440.00
54041.000	2217.00	985.08	.40	37.67	.00	57.80	1440.00

SECHD 0 CUSEL BIFUSP DIFMSX DIFKMS TOPHID ALCH

SECNO	Q	CWSEL	DIFUSP	DIFMSX	DIFKWS	TOPWID	XLCH
5404.199	509.00	905.37	.00	1.97	.00	10.37	60.00
5404.199	732.00	986.36	.99	2.04	.00	10.43	60.00
5404.199	847.00	986.51	.19	1.86	.00	10.44	60.00
5404.199	1047.00	986.95	.40	1.87	.00	10.44	60.00
5404.301	509.00	992.89	.00	8.52	.00	10.26	535.00
5404.301	732.00	995.05	1.16	8.69	.00	10.34	535.00
5404.301	847.00	995.61	.56	9.07	.00	10.37	535.00
5404.301	1047.00	996.52	.91	9.57	.00	10.43	535.00
5404.398	509.00	996.35	.00	3.47	.00	31.89	60.00
5404.398	732.00	998.28	1.93	3.23	.00	40.02	60.00
5404.398	847.00	999.18	.90	3.57	.00	43.80	60.00
5404.398	1047.00	1000.65	1.47	4.13	.00	49.97	60.00
5405.102	310.00	1005.71	.00	9.36	.00	27.74	320.00
5405.102	532.00	1006.61	.90	8.33	.00	34.97	320.00
5405.102	647.00	1007.02	.41	7.84	.00	38.24	320.00
5405.102	847.00	1007.69	.67	7.04	.00	45.01	320.00
5405.199	310.00	1006.31	.00	.60	.00	14.00	20.00
5405.199	532.00	1006.75	.44	.13	.00	14.00	20.00
5405.199	647.00	1007.02	.24	-.03	.00	14.00	20.00
5405.199	847.00	1007.70	.71	.00	.00	14.00	20.00
54053.000	310.00	1008.95	.00	2.64	.00	7.96	240.00
54053.000	532.00	1010.62	1.67	3.87	.00	8.00	240.00
54053.000	647.00	1011.38	.76	4.40	.00	8.00	240.00
54053.000	847.00	1012.89	1.50	5.19	.00	8.00	240.00
5405.398	310.00	1011.47	.00	2.52	.00	79.91	40.00
5405.398	532.00	1014.20	2.74	3.58	.00	101.86	40.00
5405.398	647.00	1015.47	1.27	4.09	.00	111.99	40.00
5405.398	847.00	1017.00	1.53	4.11	.00	168.88	40.00
5406.102	310.00	1019.38	.00	7.91	.00	22.52	400.00
5406.102	532.00	1020.30	.92	6.10	.00	33.52	400.00
5406.102	647.00	1020.72	.42	5.25	.00	41.22	400.00
5406.102	847.00	1021.34	.62	4.34	.00	52.56	400.00
5406.199	310.00	1021.81	.00	2.43	.00	7.00	70.00
5406.199	532.00	1023.51	1.70	3.21	.00	7.00	70.00
5406.199	647.00	1024.23	.72	3.51	.00	7.00	70.00
5406.199	847.00	1025.43	1.20	4.09	.00	16.23	70.00
5406.301	310.00	1024.10	.00	2.37	.00	7.00	100.50
5406.301	532.00	1028.19	4.01	4.68	.00	7.00	100.50
5406.301	647.00	1031.83	3.63	7.59	.00	7.00	100.50
5406.301	847.00	1035.04	3.21	9.61	.00	124.00	100.50
5406.398	310.00	1025.90	.00	1.72	.00	62.06	120.00
5406.398	532.00	1027.44	3.54	1.24	.00	97.58	120.00

SECNO	Q	CWSEL	DIFUSP	DIFUSX	DIFKMS	TOPWID	XLCH
* 5406.398	447.00	1032.77	3.35	.96	.00	147.65	120.00
* 5406.398	847.00	1035.48	2.69	.44	.00	170.20	120.00
* 54053.000	310.00	1009.10	.00	-14.80	.00	9.80	1.00
* 54053.000	532.00	1011.12	2.02	-18.32	.00	25.34	1.00
* 54053.000	647.00	1011.73	.61	-21.07	.00	30.32	1.00
* 54053.000	847.00	1012.87	1.16	-22.60	.00	39.81	1.00
* 5411.199	310.00	1015.52	.00	6.43	.00	7.00	209.00
* 5411.199	532.00	1017.24	1.72	6.12	.00	7.00	200.00
* 5411.199	647.00	1017.96	.72	6.24	.00	7.00	200.00
* 5411.199	847.00	1019.12	1.16	6.23	.00	16.22	200.00
* 5411.301	310.00	1017.28	.00	2.25	.00	7.00	100.00
* 5411.301	532.00	1021.93	4.16	4.69	.00	7.00	100.00
* 5411.301	647.00	1025.56	3.63	7.60	.00	7.00	100.00
* 5411.301	847.00	1031.25	5.67	12.11	.00	201.07	100.00
* 5407.102	310.00	1029.97	.00	12.20	.00	23.21	500.00
* 5407.102	532.00	1031.13	1.16	9.20	.00	59.75	500.00
* 5407.102	647.00	1031.59	.46	6.03	.00	83.39	500.00
* 5407.102	847.00	1032.51	.92	1.28	.00	136.50	500.00
* 5407.199	310.00	1031.03	.00	1.06	.00	112.96	10.00
* 5407.199	532.00	1032.29	1.26	1.16	.00	279.65	10.00
* 5407.199	647.00	1032.72	.42	1.13	.00	338.86	10.00
* 5407.199	847.00	1033.19	.47	.68	.00	402.92	10.00
* 5407.301	310.00	1034.27	.00	3.24	.00	130.63	101.20
* 5407.301	532.00	1035.00	.73	2.70	.00	222.81	101.20
* 5407.301	647.00	1035.18	.18	2.46	.00	248.97	101.20
* 5407.301	847.00	1035.44	.25	2.24	.00	284.67	101.20
* 5407.398	310.00	1034.69	.00	.42	.00	15.00	44.00
* 5407.398	532.00	1035.04	.36	.05	.00	15.00	44.00
* 5407.398	647.00	1035.12	.08	.06	.00	15.00	44.00
* 5407.398	847.00	1036.09	.96	.65	.00	188.87	44.00
* 54041.000	1143.00	983.53	.00	-51.16	.00	50.01	1.00
* 54041.000	1706.00	984.43	.90	-50.61	.00	54.55	1.00
* 54041.000	1945.00	984.80	.37	-50.32	.00	56.40	1.00
* 54041.000	2217.00	985.19	.39	-50.90	.00	58.36	1.00
* 5414.199	300.00	989.24	.00	5.71	.00	10.00	60.00
* 5414.199	1000.00	991.19	1.95	6.76	.00	10.00	60.00
* 5414.199	1200.00	992.07	.88	7.27	.00	10.00	60.00
* 5414.199	1400.00	992.90	.83	7.71	.00	10.00	60.00
* 5414.301	600.00	1013.44	.00	24.20	.00	10.00	900.00
* 5414.301	1000.00	1015.47	2.03	24.28	.00	10.00	900.00
* 5414.301	1200.00	1016.38	.91	24.31	.00	10.00	900.00
* 5414.301	1400.00	1017.25	.87	24.35	.00	10.00	900.00

5412.102	600.00	1017.28	.00	3.94	.00	40.55	220.00
5412.102	1000.00	1020.23	2.85	4.76	.00	73.79	220.00
5412.102	1200.00	1021.65	1.42	5.27	.00	85.60	220.00
5412.102	1400.00	1023.02	1.37	5.77	.00	93.15	220.00
5412.199	544.00	1033.08	.00	15.70	.00	4.00	484.00
5412.199	800.00	1035.46	2.37	15.22	.00	12.14	484.00
5412.199	1042.00	1036.63	1.18	14.98	.00	13.04	484.00
5412.199	1288.00	1041.16	4.53	18.14	.00	152.80	484.00
5412.301	544.00	1038.24	.00	5.14	.00	4.00	32.00
5412.301	800.00	1040.11	1.87	4.65	.00	112.07	32.00
5412.301	1042.00	1041.36	1.26	4.73	.00	148.34	32.00
5412.301	1288.00	1042.05	.69	.89	.00	153.50	32.00
5408.102	544.00	1040.79	.00	2.55	.00	53.04	284.00
5408.102	800.00	1042.97	2.19	2.87	.00	64.02	284.00
5408.102	1042.00	1043.30	.41	2.02	.00	66.06	284.00
5408.102	1288.00	1043.97	.59	1.91	.00	67.04	284.00
5408.199	544.00	1042.49	.00	1.71	.00	7.00	94.00
5408.199	800.00	1044.63	2.14	1.66	.00	14.08	94.00
5408.199	1042.00	1045.50	.87	2.12	.00	15.23	94.00
5408.199	1288.00	1046.67	1.17	2.76	.00	16.79	94.00
5408.301	544.00	1047.55	.00	5.05	.00	7.00	102.00
5408.301	800.00	1054.45	6.90	9.82	.00	70.43	102.00
5408.301	1042.00	1054.70	.25	9.20	.00	94.95	102.00
5408.301	1288.00	1054.75	.06	8.09	.00	101.31	102.00
5408.398	544.00	1048.67	.00	1.12	.00	120.27	94.00
5408.398	800.00	1055.14	6.47	.70	.00	172.32	94.00
5408.398	1042.00	1055.63	.48	.93	.00	183.29	94.00
5408.398	1288.00	1056.16	.53	1.40	.00	195.38	94.00
5409.102	544.00	1051.54	.00	2.87	.00	21.02	540.00
5409.102	800.00	1055.56	4.02	.41	.00	35.69	540.00
5409.102	1042.00	1056.06	.50	.43	.00	37.64	540.00
5409.102	1288.00	1056.63	.57	.47	.00	39.89	540.00
5409.199	544.00	1055.31	.00	3.77	.00	5.62	70.00
5409.199	800.00	1059.04	3.73	3.49	.00	161.15	70.00
5409.199	1042.00	1059.29	.24	3.23	.00	176.11	70.00
5409.199	1288.00	1059.58	.29	2.95	.00	194.08	70.00
5409.301	544.00	1065.06	.00	9.75	.00	5.80	521.00
5409.301	800.00	1068.23	3.17	9.19	.00	178.83	521.00
5409.301	1042.00	1068.58	.35	9.29	.00	198.71	521.00
5409.301	1288.00	1068.87	.29	9.29	.00	211.39	521.00
5409.398	544.00	1068.43	.00	3.36	.00	140.73	70.00
5409.398	800.00	1069.33	.91	1.10	.00	163.19	70.00
5409.398	1042.00	1069.50	.27	1.03	.00	174.22	70.00
5409.398	1288.00	1069.96	.36	1.10	.00	187.97	70.00



SECNO	U	CUSEL	RIEWSP	RIEWSX	RIEWS	TOPWIP	XLCH
* 5410.000	544.60	1072.25	.00	3.82	.00	37.94	470.00
* 5410.000	880.00	1073.31	.92	3.88	.00	41.67	470.00
* 5410.000	1042.00	1073.60	.39	4.00	.00	43.18	470.00
* 5410.000	1288.00	1074.15	.54	4.18	.00	43.28	470.00

SUMMARY OF ERRORS

CAUTION	SECNO= 5401.398	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5401.398	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5402.102	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5402.102	PROFILE= 2	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5402.102	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5402.102	PROFILE= 3	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5402.102	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5402.102	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5402.301	PROFILE= 1	HYDRAULIC JUMP D.S.
CAUTION	SECNO= 5402.301	PROFILE= 2	HYDRAULIC JUMP D.S.
CAUTION	SECNO= 5402.301	PROFILE= 3	HYDRAULIC JUMP D.S.
CAUTION	SECNO= 5402.301	PROFILE= 4	HYDRAULIC JUMP D.S.
CAUTION	SECNO= 5403.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5403.000	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5403.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5403.000	PROFILE= 2	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5403.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5403.000	PROFILE= 3	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5403.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5403.000	PROFILE= 4	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5404.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5404.000	PROFILE= 2	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5404.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5404.000	PROFILE= 3	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5404.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5404.000	PROFILE= 4	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5404.301	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5404.301	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5404.301	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5404.301	PROFILE= 2	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5404.301	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5404.301	PROFILE= 3	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5404.301	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5404.301	PROFILE= 4	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5405.102	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5405.102	PROFILE= 1	MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 5405.102 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5405.102 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 5405.102 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5405.102 PROFILE= 3 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 5405.102 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5405.102 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 5405.199 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5405.199 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=54053.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=54053.000 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=54053.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=54053.000 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=54053.000 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=54053.000 PROFILE= 3 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO=54053.000 PROFILE= 4 WSEL ASSUMED BASED ON MIN DIFF  
CAUTION SECNO=54053.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 5406.102 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5406.102 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 5406.102 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5406.102 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 5406.102 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5406.102 PROFILE= 3 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 5406.102 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5406.102 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 5406.199 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5406.199 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 5406.199 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5406.199 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 5406.199 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5406.199 PROFILE= 3 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 5406.199 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5406.199 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO=54053.000 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=54053.000 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO=54053.000 PROFILE= 3 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 5411.199 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5411.199 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 5411.199 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5411.199 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 5411.199 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5411.199 PROFILE= 3 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 5411.199 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5411.199 PROFILE= 4 MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 5407.102 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5407.102 PROFILE= 1 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 5407.102 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 5407.102 PROFILE= 2 MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 5407.102 PROFILE= 3 CRITICAL DEPTH ASSUMED



CAUTION	SECNO= 5407.102	PROFILE= 3	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5407.199	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5407.199	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5407.199	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5407.301	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5407.301	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5407.301	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5407.301	PROFILE= 2	WSEL ASSUMED BASED ON MIN DIFF
CAUTION	SECNO= 5407.301	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5407.301	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5407.301	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5407.301	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5407.301	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 54041.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 54041.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 54041.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 54041.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5414.199	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5414.199	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5414.199	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5414.199	PROFILE= 2	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5414.199	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5414.199	PROFILE= 3	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5414.199	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5414.199	PROFILE= 4	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5414.301	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5414.301	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5414.301	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5414.301	PROFILE= 2	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5414.301	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5414.301	PROFILE= 3	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5414.301	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5414.301	PROFILE= 4	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5412.199	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5412.199	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5412.199	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5412.199	PROFILE= 2	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5412.199	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5412.199	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5412.199	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5412.199	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5412.199	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5412.199	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5412.301	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5412.301	PROFILE= 2	WSEL ASSUMED BASED ON MIN DIFF
CAUTION	SECNO= 5412.301	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5412.301	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5412.301	PROFILE= 3	WSEL ASSUMED BASED ON MIN DIFF

CAUTION	SECNO= 5412.301	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5412.301	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5412.301	PROFILE= 4	WSEL ASSUMED BASED ON MIN DIFF
CAUTION	SECNO= 5412.301	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5408.199	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5408.199	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5408.199	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5408.199	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5408.199	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5408.199	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5408.199	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5408.199	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5408.199	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5408.199	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5408.199	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5409.199	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5409.199	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5409.199	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5409.199	PROFILE= 2	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5409.199	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5409.199	PROFILE= 3	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5409.199	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5409.199	PROFILE= 4	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5409.301	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5409.301	PROFILE= 2	WSEL ASSUMED BASED ON MIN DIFF
CAUTION	SECNO= 5409.301	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5409.301	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5409.301	PROFILE= 3	WSEL ASSUMED BASED ON MIN DIFF
CAUTION	SECNO= 5409.301	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5409.301	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5409.301	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5410.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5410.000	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5410.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5410.000	PROFILE= 2	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5410.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5410.000	PROFILE= 3	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5410.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5410.000	PROFILE= 4	MINIMUM SPECIFIC ENERGY

FLOOD INSURANCE ZONE DATA FOR GIETNER BRANCH 0

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND
	10	2 0.2

5021.000	0.	-6.24	-1.93	4.88
5021.000	200.	-6.21	-1.92	4.87
5401.102	440.	-6.18	-1.92	4.87
5401.199	790.	-6.12	-1.90	4.82
5401.301	1650.	-12.04	-3.48	7.11
5401.398	1800.	-10.77	-3.37	6.92
5402.102	3140.	-1.14	-.42	2.13
5402.199	3244.	-1.72	-.40	.66
5402.301	4051.	-12.58	-5.46	7.45
5402.398	4261.	-11.92	-5.50	7.43
5403.000	5571.	-1.78	-.42	.43
5404.000	7011.	-1.28	-.37	.40
5404.199	7071.	-1.10	-.19	.40
5404.301	7606.	-1.72	-.56	.91
5404.398	7666.	-2.83	-.90	1.47
5405.102	7906.	-1.31	-.41	.67
5405.199	8006.	-.68	-.24	.71
5405.000	8246.	-2.44	-.74	1.50
5405.398	8286.	-4.00	-1.27	1.53
5406.102	8686.	-1.34	-.42	.62
5406.199	8756.	-2.42	-.72	1.20
5406.301	8056.	-7.64	-3.63	3.21
5406.398	8976.	-6.89	-3.35	2.69
54053.000	8977.	-2.63	-.61	1.16
5411.199	9177.	-2.44	-.72	1.16
5411.301	9277.	-7.79	-3.63	5.67
5407.102	9777.	-1.62	-.46	.92
5407.199	9777.	-1.62	-.46	.92
5407.301	9787.	-1.68	-.42	.47
5407.301	9888.	-.91	-.18	.25
5407.398	9932.	-.44	-.08	.96
54041.000	9933.	-1.27	-.37	.39
5414.199	9993.	-2.83	-.88	.83
5414.301	10893.	-2.94	-.91	.87
5412.102	11113.	-4.27	-1.42	1.37
5412.199	11597.	-3.55	-1.18	4.53
5412.301	11629.	-3.12	-1.26	.69
5408.102	11913.	-2.59	-.41	.59
5408.199	12007.	-3.00	-.87	1.17
5408.301	12109.	-7.15	-2.25	.06
5408.398	12203.	-6.96	-.48	.53
5409.102	12743.	-4.52	-.50	.57
5409.199	12813.	-3.98	-.24	.29
5409.301	13334.	-3.51	-.35	.39
5409.398	13404.	-1.18	-.27	.36
5410.000	13874.	-1.35	-.39	.54
WEIGHTED AVG FOR REACH		-4.63	-1.49	2.52

FHF FOR THE REACH = 045 WITH 13.5' OF THE REACH WITHIN 1.0 FEET  
 ZONE FOR THE REACH = A 9

5021.000	0.	-6.24	-1.93	4.93
5021.000	200.	-6.21	-1.92	4.87
5401.102	340.	-6.18	-1.92	4.87
5401.199	790.	-6.12	-1.90	4.82
5401.301	1650.	-12.04	-3.48	7.11
5401.398	1800.	-10.79	-3.39	6.92
5402.102	3140.	-1.14	-.42	2.13
5402.199	3244.	-1.72	-.40	.66
5402.301	4051.	-12.58	-5.46	7.45
5402.398	4261.	-11.92	-5.50	7.43
5403.000	5571.	-1.78	-.42	.43
5403.000	7011.	-1.28	-.37	.40
5404.199	7071.	-1.18	-.19	.40
5404.301	7605.	-1.72	-.56	.91
5404.398	7666.	-2.03	-.90	1.47
5405.102	7985.	-1.31	-.41	.67
5405.199	8006.	-.68	-.24	.71
54053.000	8246.	-2.44	-.76	1.50
5405.398	8286.	-4.00	-1.27	1.53
5406.102	8686.	-1.34	-.42	.62
5406.199	8756.	-2.42	-.72	1.20
5406.301	8856.	-7.64	-3.63	3.21
5406.398	8976.	-6.89	-3.35	2.69
54053.000	8977.	-2.63	-.61	1.16
5411.199	9177.	-2.44	-.72	1.16
5411.301	9277.	-7.79	-3.63	5.67
5407.102	9777.	-1.62	-.46	.92
5407.199	9787.	-1.68	-.42	.47
5407.301	9888.	-.91	-.18	.25
5407.398	9932.	-.44	-.08	.94
54071.000	9933.	-1.27	-.37	.39
5414.199	9993.	-2.83	-.88	.83
5414.301	10893.	-2.94	-.91	.87
5412.102	11113.	-4.27	-1.42	1.37
5412.199	11597.	-3.55	-1.18	4.53
5412.301	11629.	-3.12	-1.26	.69
5408.102	11913.	-2.59	-.41	.59
5408.199	12007.	-3.00	-.87	1.17
5408.301	12109.	-7.15	-2.25	.06
5408.398	12203.	-6.96	-.48	.53
5409.102	12743.	-4.52	-.50	.57
5409.199	12813.	-3.98	-.24	.29
5409.301	13334.	-3.51	-.35	.29
5409.398	13404.	-1.18	-.27	.36
5410.000	13874.	-1.35	-.39	.54
WEIGHTED AVG FOR REACH		-4.63	-1.49	2.52

FHF FOR THE REACH = .045 WITH 13.5' OF THE REACH WITHIN 1.0 FEET  
 ZONE FOR THE REACH = A-9

## CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCIDENTS

INC TOTAL WEIGHTED AVG DIFFERENCE  
 NO. LENGTH BETWEEN BASE FLOOD AND  
 10' 1' 0.2'

8 800. -6.19 -1.92 4.86

FHF FOR REACH 1 = 060 WITH 100% OF THE REACH WITHIN 1.0 FEET  
 ZONE FOR THE REACH = A12

✓ 16 1600. -8.94 -2.66 5.91

X FHF FOR REACH 2 = 090 WITH 81% OF THE REACH WITHIN 2.0 FEET  
 ZONE FOR THE REACH = A18

26 2600. -8.62 -2.68 5.79

FHF FOR REACH 2 = 085 WITH 81% OF THE REACH WITHIN 2.0 FEET  
 ZONE FOR THE REACH = A17

33 3300. -2.80 -0.90 -2.69

FHF FOR REACH 3 = 030 WITH 85% OF THE REACH WITHIN 1.0 FEET  
 ZONE FOR THE REACH = A 4

X 40 4000. -7.19 -2.95 -4.08

FHF FOR REACH 5 = 070 WITH 88% OF THE REACH WITHIN 2.0 FEET  
 ZONE FOR THE REACH = A14

55 5500. -8.00 -3.50 -4.68

FHF FOR REACH 6 = 080 WITH 80% OF THE REACH WITHIN 2.0 FEET  
 ZONE FOR THE REACH = A16

71 7100. -1.54 -0.40 -0.42

FHF FOR REACH 5 = 015 WITH 97% OF THE REACH WITHIN 0.5 FEET  
 ZONE FOR THE REACH = A 3

X 76 7600. -1.46 -0.38 -0.67

FHF FOR REACH 8 = 015 WITH 100% OF THE REACH WITHIN 0.5 FEET  
 ZONE FOR THE REACH = A 3



90 9000. -2.74 -1.98 1.28

FHF FOR REACH 6 = 025 WITH 93. OF THE REACH WITHIN 1.0 FEET  
ZONE FOR THE REACH = A 5

99 9900. -3.85 -1.55 2.48

FHF FOR REACH 10 = 040 WITH 93. OF THE REACH WITHIN 1.0 FEET  
ZONE FOR THE REACH = A 8

100 10000. -1.81 -.52 .63

FHF FOR REACH 11 = 020 WITH 99. OF THE REACH WITHIN .5 FEET  
ZONE FOR THE REACH = A 4

109 10900. -2.89 -.87 .85

FHF FOR REACH 12 = 030 WITH 99. OF THE REACH WITHIN 1.0 FEET  
ZONE FOR THE REACH = A 6

138 13800. -3.79 -.65 1.00

FHF FOR REACH 13 = 040 WITH 91. OF THE REACH WITHIN 1.0 FEET  
ZONE FOR THE REACH = A 8

\*\*\*\*\*  
HEC2 RELEASE DATED NOV 76 UPDATED AUG 1977  
ERROR CORR - 01,02  
MODIFICATION - 50,51,52,53  
\*\*\*\*\*

#CECEEN