

MUTTON CREEK CULVERT RIGHT BAR FIRST

BASE ELEVATION = 78.85

Z = 0.39

APPROACH ELEVATION	AREA	CONVEYANCE	ALPHA	TOP WIDTH	QC
79.20	0.0	0.0	0.0	0.0	0.0
79.80	0.0	0.0	0.0	0.0	0.0
80.40	0.0	0.0	0.0	0.0	0.0
81.00	2.2	30.4	1.000	7.8	6.51
81.60	7.8	215.7	1.000	9.8	39.35
82.20	13.9	540.1	1.000	10.5	90.56
82.80	20.5	979.5	1.000	11.9	152.58
83.40	28.4	1536.5	1.000	14.6	225.27
84.00	38.0	2315.4	1.000	17.3	319.70
84.60	49.2	3238.2	1.000	20.0	437.78
85.20	61.9	4383.1	1.000	22.7	581.31
85.80	77.1	5963.6	1.021	30.6	694.99
86.40	99.5	8140.5	1.125	44.2	847.39
87.00	130.2	10932.6	1.246	58.1	1106.64
87.60	168.9	14539.0	1.328	69.5	1493.26
88.20	213.3	19027.5	1.360	78.6	1993.81
88.80	263.2	24401.6	1.370	87.7	2587.46
89.40	318.6	30720.3	1.368	96.8	3279.51
90.00	379.4	38042.7	1.360	105.9	4075.00
90.60	445.7	46427.4	1.349	115.0	4978.71
91.20	516.3	56419.4	1.312	120.3	6069.01
91.80	590.0	67491.2	1.281	125.6	7257.12
92.40	667.0	79653.1	1.256	130.9	8543.71
93.00	747.1	92918.2	1.236	136.2	9929.61

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BARREL DEPTH	AREA	CONVEYANCE	TOP WIDTH	WETTED PERIMETER
0.0	0.0	0.0	0.0	
0.240	0.52	10.8	2.74	2.82
0.560	1.44	47.1	3.80	4.01
0.840	2.62	110.4	4.55	4.95
1.120	3.97	200.5	5.13	5.76
1.400	5.48	316.2	5.60	6.49
1.680	7.10	456.1	5.98	7.17
1.950	8.82	618.3	6.29	7.81
2.240	10.62	800.7	6.53	8.42
2.520	12.47	1001.0	6.72	9.01
2.800	14.38	1216.8	6.86	9.59
3.080	16.31	1445.2	6.95	10.15
3.360	18.26	1683.5	6.99	10.72
3.640	20.22	1928.6	6.99	11.28
3.920	22.18	2177.2	6.95	11.84
4.200	24.11	2425.9	6.86	12.41
4.480	26.01	2671.0	6.72	12.98
4.760	27.87	2908.5	6.53	13.57
5.040	29.66	3134.1	6.29	14.18
5.320	31.39	3342.9	5.98	14.82
5.600	33.01	3529.4	5.60	15.50
5.880	34.51	3686.8	5.13	16.23
6.160	35.87	3806.5	4.55	17.04
6.440	37.04	3875.4	3.80	17.98
6.720	37.97	3868.5	2.74	19.17
7.000	38.48	3610.8	0.0	21.99

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Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
255.0	85.52	*****	4.83	4.19	2	0.90	0.92
255.0	85.84	84.60	5.63	5.75	3	0.89	0.91
255.0	86.13	85.00	6.00	6.15	3	0.88	0.91
255.0	86.57	85.50	6.50	6.65	3	0.88	0.90
255.0	89.52	88.50	7.00	7.00	4	0.97	0.97
485.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
485.0	92.20	88.50	7.00	7.00	4	0.97	0.97
600.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
600.0	91.03	*****	*****	*****	5	0.57	0.57
600.0	89.96	*****	*****	*****	6	0.97	0.97
600.0	94.17	88.50	7.00	7.00	4	0.97	0.97
960.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
960.0	99.83	*****	*****	*****	5	0.69	0.69
960.0	97.43	*****	*****	*****	6	0.97	0.97
960.0	103.01	88.50	7.00	7.00	4	0.97	0.97

MUTTON CREEK CULVERT RIGHT BAR FIRST

BASE ELEVATION = 76.65

Z = 0.39

APPROACH ELEVATION	AREA	CONVEYANCE	ALPHA	TOP WIDTH	QC
79.20	0.0	0.0	0.0	0.0	0.0
79.80	0.0	0.0	0.0	0.0	0.0
80.40	0.0	0.0	0.0	0.0	0.0
81.00	2.7	30.4	1.000	7.8	6.51
81.60	7.8	215.7	1.000	9.8	39.35
82.20	13.9	540.1	1.000	10.5	90.56
82.80	20.5	979.5	1.000	11.9	152.58
83.40	28.4	1536.5	1.000	14.6	225.27
84.00	38.0	2315.4	1.000	17.3	319.70
84.60	49.2	3238.2	1.000	20.0	437.78
85.20	61.9	4383.1	1.000	22.7	581.31
85.80	77.1	5963.6	1.021	30.6	694.99
86.40	99.5	8140.5	1.125	44.2	847.39
87.00	130.2	10932.6	1.246	58.1	1106.64
87.60	168.9	14539.0	1.328	69.5	1493.26
88.20	213.3	19027.5	1.360	78.6	1993.81
88.80	263.2	24401.6	1.370	87.7	2587.46
89.40	318.6	30720.3	1.368	96.8	3279.51
90.00	379.4	38042.7	1.360	105.9	4075.00
90.60	445.7	46427.4	1.349	115.0	4978.71
91.20	516.3	56419.4	1.312	120.3	5069.01
91.80	590.0	67491.2	1.281	125.6	7257.12
92.40	667.0	79653.1	1.256	130.9	8543.71
93.00	747.1	92918.2	1.236	136.2	9929.61

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BARREL DEPTH	AREA	CONVEYANCE	TOP WIDTH	WETTED PERIMETER
0.0	0.0	0.0	0.0	
0.280	0.52	10.8	2.74	2.82
0.560	1.44	47.1	3.80	4.01
0.840	2.62	110.4	4.55	4.95
1.120	3.97	200.5	5.13	5.76
1.400	5.48	316.2	5.60	6.49
1.680	7.10	456.1	5.98	7.17
1.960	8.82	618.3	6.29	7.81
2.240	10.62	800.7	6.53	8.42
2.520	12.47	1001.0	6.72	9.01
2.800	14.38	1216.8	6.86	9.59
3.080	16.31	1445.2	6.95	10.15
3.360	18.26	1683.5	6.99	10.72
3.640	20.22	1928.6	6.99	11.28
3.920	22.18	2177.2	6.95	11.84
4.200	24.11	2425.9	6.86	12.41
4.480	26.01	2671.0	6.72	12.98
4.760	27.87	2908.5	6.53	13.57
5.040	29.66	3134.1	6.29	14.18
5.320	31.38	3342.9	5.98	14.82
5.600	33.01	3529.4	5.60	15.50
5.880	34.51	3686.8	5.13	16.23
6.160	35.87	3806.5	4.55	17.04
6.440	37.04	3875.4	3.80	17.98
6.720	37.97	3868.5	2.74	19.17
7.000	38.48	3610.8	0.0	21.99

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BASE ELEVATION = 78.85

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Q	ELEV. H1	ELEV. H4	D2	D3	TYPE	C	C ADJUSTED
100.0	82.50	*****	2.88	2.56	2	0.92	0.97
100.0	83.24	83.00	3.82	4.15	3	0.92	0.97
100.0	84.18	84.00	4.79	5.15	3	0.92	0.96
100.0	84.76	84.60	5.39	5.75	3	0.91	0.94
100.0	85.15	85.00	5.79	6.15	3	0.90	0.94
100.0	85.65	85.50	6.29	6.65	3	0.89	0.93
100.0	85.95	85.80	6.60	6.95	3	0.89	0.92
100.0	86.76	86.60	7.00	7.00	4	0.97	0.97
200.0	84.51	*****	4.20	3.68	2	0.91	0.94
200.0	84.45	83.00	4.21	4.15	3	0.91	0.94
200.0	84.86	84.00	4.94	5.15	3	0.91	0.94
200.0	85.31	84.60	5.50	5.75	3	0.90	0.93
200.0	85.65	85.00	5.90	6.15	3	0.89	0.92
200.0	86.12	85.50	6.40	6.65	3	0.88	0.91
200.0	86.44	85.80	6.72	6.95	3	0.88	0.90
200.0	87.23	86.60	7.00	7.00	4	0.97	0.97
255.0	85.52	*****	4.83	4.19	2	0.90	0.92
255.0	85.53	84.00	5.13	5.15	3	0.90	0.92
255.0	85.84	84.60	5.63	5.75	3	0.89	0.91
255.0	86.13	85.00	6.00	6.15	3	0.88	0.91
255.0	86.57	85.50	6.50	6.65	3	0.88	0.90
255.0	86.90	85.80	6.84	6.95	3	0.87	0.88
255.0	87.62	86.60	7.00	7.00	4	0.97	0.97
300.0	86.37	*****	5.33	4.55	2	0.88	0.90
300.0	86.25	84.00	5.39	5.15	3	0.88	0.90
300.0	86.42	84.60	5.78	5.75	3	0.88	0.90
300.0	86.66	85.00	6.13	6.15	3	0.88	0.89
300.0	87.06	85.50	6.61	6.65	3	0.87	0.88
300.0	87.42	85.80	6.97	6.95	3	0.86	0.87
300.0	88.02	86.60	7.00	7.00	4	0.97	0.97
400.0	88.50	*****	6.36	5.26	2	0.84	0.84
400.0	88.31	84.60	6.39	5.75	3	0.84	0.84
400.0	88.34	85.00	6.58	6.15	3	0.84	0.84
400.0	88.66	85.50	7.00	6.65	3	0.84	0.84
400.0	88.95	85.80	7.00	6.95	3	0.83	0.83
400.0	89.12	86.60	7.00	7.00	4	0.97	0.97
485.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
485.0	90.30	86.60	7.00	7.00	4	0.97	0.97
550.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
550.0	89.95	*****	*****	*****	5	0.54	0.54
550.0	91.36	86.60	7.00	7.00	4	0.97	0.97

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Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
600.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
600.0	91.03	*****	*****	*****	5	0.57	0.57
600.0	89.96	*****	*****	*****	6	0.97	0.97
600.0	92.27	86.60	7.00	7.00	4	0.97	0.97
700.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
700.0	93.14	*****	*****	*****	5	0.61	0.61
700.0	91.68	*****	*****	*****	6	0.97	0.97
700.0	94.32	86.60	7.00	7.00	4	0.97	0.97
800.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
800.0	95.72	*****	*****	*****	5	0.64	0.64
800.0	93.68	*****	*****	*****	6	0.97	0.97
800.0	96.68	86.60	7.00	7.00	4	0.97	0.97
900.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
900.0	98.30	*****	*****	*****	5	0.67	0.67
900.0	95.95	*****	*****	*****	6	0.97	0.97
900.0	99.35	86.60	7.00	7.00	4	0.97	0.97
960.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
960.0	99.83	*****	*****	*****	5	0.69	0.69
960.0	97.43	*****	*****	*****	6	0.97	0.97
960.0	101.11	86.60	7.00	7.00	4	0.97	0.97

THE LAST NUMBER 2 CARD READ WAS TITLED MUTTON CREEK CULVERT RIGHT BAR FIRST

END OF DATA

SOME OR ALL OF THE INFORMATION ON
THIS CARD IS NOT USABLE FOR AN
INTERNAL CHECK.

MUTTON CR. CULVERT

LEFT BAR

BASE ELEVATION = 78.99

Z = 0.28

APPROACH ELEVATION	AREA	CONVEYANCE	ALPHA	TOP WIDTH	QC
79.25	0.0	0.0	0.0	0.0	0.0
79.85	0.0	0.0	0.0	0.0	0.0
80.45	0.0	0.0	0.0	0.0	0.0
81.05	0.0	0.0	0.0	0.0	0.0
81.65	3.3	56.6	1.000	8.9	11.47
82.25	9.4	276.8	1.000	11.2	48.54
82.85	16.7	667.2	1.000	13.4	106.04
83.45	25.5	1253.2	1.000	15.7	184.25
84.05	35.6	2064.0	1.000	17.9	284.18
84.65	47.0	3051.4	1.001	20.9	399.88
85.25	63.0	4527.1	1.088	32.2	499.66
85.85	85.4	6468.3	1.204	42.5	687.36
86.45	118.3	8888.9	1.429	72.0	860.70
87.05	167.0	12625.8	1.529	88.7	1300.18
87.65	233.5	17353.8	1.682	125.0	1810.76
88.25	312.3	24454.3	1.577	136.3	2683.11
88.85	395.6	33407.7	1.441	141.4	3755.57
89.45	481.9	43838.4	1.345	146.4	4961.35
90.05	571.3	55697.8	1.278	151.5	6295.41
90.65	663.8	68957.2	1.230	156.6	7754.44
91.25	759.3	83600.0	1.195	161.7	9336.20
91.85	857.8	99617.9	1.170	166.8	11039.26
92.45	959.4	117008.6	1.150	171.9	12862.70
93.05	1064.0	135774.1	1.135	176.9	14806.07

THE LAST NUMBER 2 CARD READ WAS TITLED MUTTON CREEK CULVERT RIGHT BAR FIRST

1 78.85 79.24 7.00 7.00 .023 60.00 0.00 0.0 0.0 0 0 10 9

ONLY ONE TAILWATER ELEVATION
SHOULD BE GREATER THAN OR EQUAL
TO BASE ELEV. + D.

THERE ARE 1 ERRORS IN THIS SET.

MUTTON CR. CULVERT

LEFT BAR

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APPROACH ELEVATION	AREA	CONVEYANCE	ALPHA	TOP WIDTH	QC
79.25	0.0	0.0	0.0	0.0	0.0
79.85	0.0	0.0	0.0	0.0	0.0
80.45	0.0	0.0	0.0	0.0	0.0
81.05	0.0	0.0	0.0	0.0	0.0
81.65	3.3	56.6	1.000	8.9	11.47
82.25	9.4	276.8	1.000	11.2	48.54
82.85	16.7	667.2	1.000	13.4	106.04
83.45	25.5	1253.2	1.000	15.7	184.25
84.05	35.6	2064.0	1.000	17.9	284.18
84.65	47.0	3051.4	1.001	20.9	399.88
85.25	63.0	4527.1	1.088	32.2	499.66
85.85	85.4	6468.3	1.204	42.5	687.36
86.45	118.3	8888.9	1.429	72.0	860.70
87.05	167.0	12625.8	1.529	98.7	1300.18
87.65	233.5	17353.8	1.682	125.0	1810.76
88.25	312.3	24454.3	1.577	136.3	2683.11
88.85	395.6	33407.7	1.441	141.4	3755.57
89.45	481.9	43838.4	1.345	146.4	4961.35
90.05	571.3	55697.8	1.278	151.5	6295.41
90.65	663.8	68957.2	1.230	156.6	7754.44
91.25	759.3	83600.0	1.195	161.7	9336.20
91.85	857.5	99617.9	1.170	166.8	11039.26
92.45	959.4	117008.6	1.150	171.9	12862.70
93.05	1064.0	135774.1	1.135	176.9	14806.07

MUTTON CR. CULVERT

LEFT BAR

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76.99

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0.0	0.0	0.0	0.0	2.82
0.280	0.52	10.8	2.74	4.01
0.560	1.44	47.1	3.80	4.95
0.840	2.62	110.4	4.55	5.76
1.120	3.97	200.5	5.13	6.49
1.400	5.48	316.2	5.60	7.17
1.680	7.10	456.1	5.98	7.81
1.960	8.82	618.3	6.29	8.42
2.240	10.62	800.7	6.53	9.01
2.520	12.47	1001.0	6.72	9.59
2.800	14.38	1216.8	6.86	10.15
3.040	16.31	1445.2	6.95	10.72
3.360	18.26	1683.5	6.99	11.28
3.640	20.22	1928.6	6.99	11.84
3.920	22.18	2177.2	6.95	12.41
4.200	24.11	2425.9	6.86	12.98
4.480	26.01	2671.0	6.72	13.57
4.760	27.87	2908.5	6.53	14.18
5.040	29.66	3134.1	6.29	14.82
5.320	31.38	3342.9	5.98	15.50
5.600	33.01	3529.4	5.60	16.23
5.880	34.51	3686.8	5.13	17.04
6.160	35.87	3806.5	4.55	17.9A
6.440	37.04	3875.4	3.80	19.17
6.720	37.97	3868.5	2.74	21.99
7.000	38.48	3610.8	0.0	

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LEFT BAR

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Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
255.0	85.62	*****	4.96	4.19	2	0.89	0.91
255.0	85.89	84.60	5.62	5.61	3	0.89	0.91
255.0	86.18	85.00	5.98	6.01	3	0.88	0.90
255.0	87.03	85.90	6.89	6.91	3	0.87	0.87
255.0	89.50	88.50	7.00	7.00	4	0.97	0.97
485.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
485.0	92.13	88.50	7.00	7.00	4	0.97	0.97
600.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
600.0	91.06	*****	*****	*****	5	0.57	0.57
600.0	90.02	*****	*****	*****	6	0.97	0.97
600.0	94.06	88.50	7.00	7.00	4	0.97	0.97
960.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
960.0	99.86	*****	*****	*****	5	0.69	0.69
960.0	97.35	*****	*****	*****	6	0.97	0.97
960.0	102.73	88.50	7.00	7.00	4	0.97	0.97

MUTTON CR CULVERT

LEFT BAR

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APPROACH ELEVATION	AREA	CONVEYANCE	ALPHA	TOP WIDTH	QC
79.25	0.0	0.0	0.0	0.0	0.0
79.85	0.0	0.0	0.0	0.0	0.0
80.45	0.0	0.0	0.0	0.0	0.0
81.05	0.0	0.0	0.0	0.0	0.0
81.65	3.3	56.6	1.000	8.9	11.47
82.25	9.4	276.8	1.000	11.2	48.54
82.85	16.7	667.2	1.000	13.4	106.04
83.45	25.5	1253.2	1.000	15.7	184.25
84.05	35.6	2064.0	1.000	17.9	284.18
84.65	47.0	3051.4	1.001	20.9	399.68
85.25	63.0	4527.1	1.088	32.2	499.66
85.85	85.4	6468.3	1.204	42.5	687.36
86.45	118.3	9888.9	1.429	72.0	860.70
87.05	167.0	12625.8	1.529	88.7	1300.18
87.65	233.5	17353.8	1.682	125.0	1810.76
88.25	312.3	24454.3	1.577	136.3	2683.11
88.85	395.6	33407.7	1.441	141.4	3755.57
89.45	481.9	43838.4	1.345	146.4	4961.35
90.05	571.3	55697.8	1.278	151.5	6295.41
90.65	663.8	68957.2	1.230	156.6	7754.44
91.25	759.3	83600.0	1.195	161.7	9336.20
91.85	857.8	99617.9	1.170	166.8	11039.26
92.45	959.4	117008.6	1.150	171.9	12862.70
93.05	1064.0	135774.1	1.135	176.9	14805.07

MUTTON CR CULVERT

LEFT BAR

BASE ELEVATION =

78.99

Z = 0.28

BARREL DEPTH	AREA	CONVEYANCE	TOP WIDTH	WETTED PERIMETER
0.0	0.0	0.0	0.0	2.82
0.280	0.52	10.8	2.74	4.01
0.560	1.44	47.1	3.80	4.95
0.840	2.62	110.4	4.55	5.76
1.120	3.97	200.5	5.13	6.49
1.400	5.48	316.2	5.60	7.17
1.680	7.10	456.1	5.98	7.81
1.960	8.82	618.3	6.29	8.42
2.240	10.62	800.7	6.53	9.01
2.520	12.47	1001.0	6.72	9.59
2.800	14.38	1216.8	6.86	10.15
3.080	16.31	1445.2	6.95	10.72
3.360	18.26	1683.5	6.99	11.28
3.640	20.22	1928.6	6.99	11.84
3.920	22.18	2177.2	6.95	12.41
4.200	24.11	2425.9	6.86	12.98
4.480	26.01	2671.0	6.72	13.57
4.760	27.87	2908.5	6.53	14.18
5.040	29.66	3134.1	6.29	14.82
5.320	31.38	3342.9	5.98	15.50
5.600	33.01	3529.4	5.60	16.23
5.880	34.51	3686.8	5.13	17.04
6.160	35.87	3806.5	4.55	17.98
6.440	37.04	3875.4	3.80	19.17
6.720	37.97	3868.5	2.74	21.99
7.000	38.48	3610.8	0.0	

MUTTON CR CULVERT

LEFT BAR

BASE ELEVATION = 78.99

Z = 0.28

Q	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED	
100.0	NO SOLUTION TYPE TWO FLOW---SUPERCRITICAL FLOW AT APPROACH SECTION							
100.0	83.15	83.00	3.81	4.01	3	0.92	0.98	
100.0	84.17	84.00	4.77	5.01	3	0.92	0.96	
100.0	84.75	84.60	5.36	5.61	3	0.91	0.95	
100.0	85.15	85.00	5.76	6.01	3	0.90	0.94	
100.0	85.65	85.50	6.26	6.51	3	0.89	0.92	
100.0	86.05	85.90	6.67	6.91	3	0.89	0.91	
100.0	86.75	86.60	7.00	7.00	4	0.97	0.97	
200.0	84.56	*****	4.33	3.68	2	0.91	0.94	
200.0	84.50	83.00	4.31	4.01	3	0.91	0.94	
200.0	84.87	84.00	4.94	5.01	3	0.91	0.94	
200.0	85.32	84.60	5.49	5.61	3	0.90	0.93	
200.0	85.67	85.00	5.87	6.01	3	0.89	0.92	
200.0	86.14	85.50	6.37	6.51	3	0.88	0.90	
200.0	86.55	85.90	6.78	6.91	3	0.88	0.89	
200.0	87.22	86.60	7.00	7.00	4	0.97	0.97	
255.0	85.62	*****	4.96	4.19	2	0.89	0.91	
255.0	85.60	84.00	5.16	5.01	3	0.89	0.92	
255.0	85.89	84.60	5.62	5.61	3	0.89	0.91	
255.0	86.18	85.00	5.98	6.01	3	0.88	0.90	
255.0	86.60	85.50	6.47	6.51	3	0.88	0.89	
255.0	87.03	85.90	6.89	6.91	3	0.87	0.87	
255.0	87.60	86.60	7.00	7.00	4	0.97	0.97	
300.0	86.54	*****	5.45	4.55	2	0.88	0.88	
300.0	86.40	84.00	5.46	5.01	3	0.88	0.89	
300.0	86.52	84.60	5.79	5.61	3	0.88	0.89	
300.0	86.74	85.00	6.12	6.01	3	0.87	0.88	
300.0	87.12	85.50	6.58	6.51	3	0.87	0.87	
300.0	87.54	85.90	7.00	6.91	3	0.86	0.86	
300.0	87.99	86.60	7.00	7.00	4	0.97	0.97	
400.0	88.63	*****	6.46	5.26	2	0.84	0.84	
400.0	88.46	84.60	6.45	5.61	3	0.84	0.84	
400.0	88.46	85.00	6.60	6.01	3	0.84	0.84	
400.0	88.69	85.50	6.97	6.51	3	0.84	0.84	
400.0	89.05	85.90	7.00	6.91	3	0.83	0.83	
400.0	89.07	86.60	7.00	7.00	4	0.97	0.97	
485.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED						
485.0	90.23	86.60	7.00	7.00	4	0.97	0.97	
550.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED						
550.0	89.96	*****	*****	*****	5	0.54	0.54	
550.0	91.27	86.60	7.00	7.00	4	0.97	0.97	

Tailwater Elev.
 10 = 84.60
 50 85.90 } B.W. FROM
 100 86.60 } SP. NAW. R.
 500 88.50

MUTTON CR CULVERT

LEFT BAR

BASE ELEVATION = 78.99

Z = 0.28

0	ELEV H1	ELEV H4	D2	D3	TYPE	C	C ADJUSTED
600.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
600.0	91.06	*****	*****	*****	5	0.57	0.57
600.0	90.02	*****	*****	*****	6	0.97	0.97
600.0	92.16	86.60	7.00	7.00	4	0.97	0.97
700.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
700.0	93.17	*****	*****	*****	5	0.61	0.61
700.0	91.70	*****	*****	*****	6	0.97	0.97
700.0	94.16	86.60	7.00	7.00	4	0.97	0.97
800.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
800.0	95.75	*****	*****	*****	5	0.64	0.64
800.0	93.66	*****	*****	*****	6	0.97	0.97
800.0	96.48	86.60	7.00	7.00	4	0.97	0.97
900.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
900.0	98.33	*****	*****	*****	5	0.67	0.67
900.0	95.89	*****	*****	*****	6	0.97	0.97
900.0	99.10	86.60	7.00	7.00	4	0.97	0.97
960.0	TYPE.. 2	ENERGY EQUATIONS NOT BALANCED					
960.0	99.86	*****	*****	*****	5	0.69	0.69
960.0	97.35	*****	*****	*****	6	0.97	0.97
960.0	100.83	86.60	7.00	7.00	4	0.97	0.97

*** INPUT CARD PRINTOUT ***

FINAL ALL MUTTON

	1	2	3	4	5	6	7	8
1	1	MUTTON CREEK	10.50	100.500	UP	DOWN	B-F	10 8 02 05 10
2	2	308588	309000	309200	309320	-99999	-99999	-99999 -99999
3	300	0	1	19	3	30853	512	99 99
4	301	510	970	1200	1920	510	970	1200 1920
5	305	-125	1	31030	0	1	30881	20 1 30872 40 1 30873 60 1 30865
5	306	90	1	30860	130	1	30854	115 2 30846 127 2 30814 135 2 30811
5	307	139	2	30908	142	2	30804	144 2 30809 146 2 30826 159 3 30855
5	308	170	3	30860	200	3	30873	250 3 30906 350 3 31030
6	315	1	2	040 040	1	2	045 040	1 2 040 040
3	400	0	1	30884	900	99	99	
5	405	0	1	30991	9	1	30934	13 1 30953 81 1 30943 101 1 30943
5	406	191	2	30924	195	2	30847	200 2 30832 202 2 30830 209 2 30828
5	407	211	2	30831	223	3	30860	309 3 30897 336 3 30905 343 3 30910
5	408	365	3	30991				
5	410	1	2	050 050	1	2	045 045	1 2 045 045
3	500	0	14	2 3092	1760	99	99	
5	505	0	1	31050	8	1	31013	20 1 31012 44 1 30969 72 1 30905
5	506	79	1	30902	87	1	30905	101 2 30958 155 2 30975 185 2 30986
5	507	205	2	30996	283	2	31011	305 2 31043 321 2 31049
5	510	1	2	045 045	1	2	035 035	
3	520	344.5	0	14	2 3096	2044	99	99
5	522	0	1	31095	8	1	31053	20 1 31057 44 1 31014 72 1 30950
5	523	79	1	30907	87	1	30953	101 2 31003 155 2 31020 185 2 31031
5	524	205	2	31031	283	2	31055	305 2 31091 321 2 31094
5	526	1	2	045 045	1	2	035 035	
3	530	50-1	0	20	3 3100	2324	99	99
5	532	-15	1	31135	-5	1	31099	2 1 31069 6 1 31062 20 1 31058
5	533	95	1	31035	60	1	31022	67 1 31015 70 2 31014 75 2 30977
5	534	36	2	30902	37	2	30924	113 3 31039 111 3 31039 127 3 31049
5	535	180	3	31051	205	3	31074	283 3 31094 352 3 31110 265 3 31130
6	537	1	2	040 040	1	2	045 045	1 2 035 035
3	540	5-4.4	0	13	2 3105	2512	99	99
5	542	5	1	31174	14	1	31102	17 1 31073 100 2 31075 102 2 31042
5	543	104	2	31037	107	2	31039	113 2 31042 130 3 31078 209 3 31096
5	544	221	3	31113	230	3	31124	242 3 31174
5	545	1	2	045 045	1	2	035 035	
3	550	5	0	13	3 3114	2890	99	99
5	555	0	1	31210	14	1	31145	17 1 31117 100 2 31120 102 2 31086
5	556	104	2	31091	107	2	31083	113 2 31086 130 3 31122 200 3 31140
5	557	221	3	31157	230	3	31168	242 3 31222
5	515	1	2	035 035	1	2	045 045	1 2 045 045
3	620	5-4.6	0	13	3 3114	1213	99	99
5	622	0	1	31258	14	1	31186	17 1 31157 100 2 31160 102 2 31126
5	623	104	2	31121	107	2	31123	113 2 31126 130 3 31162 200 3 31160
5	624	221	3	31197	230	3	31208	242 3 31262

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 3 DATE= 4/18/78

INPUT SUMMARY FOR: MUTTON CREEK 10,50,100,500 UP & DOWN R-F

10 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 10 TYPE 3 CARDS

KEPT 10 CROSS SECTIONS FOR EDITING

10 " " VALID FOR PROPERTY COMPUTATIONS

10 " " " " PROFILE " "

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK 10.50, 100.500 UP & DOWN R-F
 SECID=8 AT DISTANCE= 812 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	OC
3083.0	42	1937	1.00	27	28	121	148	296
3083.5	56	2980	1.00	31	32	119	150	430
3084.0	73	4306	1.00	35	36	117	152	594
3084.5	91	5842	1.00	39	40	115	155	790
3085.0	113	7845	1.02	49	51	107	157	962
3085.5	141	10303	1.07	61	62	98	159	1177
3086.0	176	13661	1.14	80	82	90	170	1387
3086.5	226	17685	1.29	122	123	60	162	1539
3087.0	293	23194	1.39	146	147	47	193	2002
3087.5	377	29719	1.51	190	191	13	203	2452
3088.0	477	38685	1.50	208	210	2	211	3334
3088.5	585	49512	1.45	222	223	-2	218	4467
3089.0	698	62295	1.40	233	235	-7	226	5794
3089.5	818	76663	1.35	245	247	-11	233	7288
3090.0	943	92723	1.31	257	259	-15	241	8944
3090.5	1075	110493	1.28	269	270	-19	248	10760
3091.0	1211	130331	1.25	278	280	-23	254	12415
3091.5	1353	151954	1.23	287	288	-28	258	15045
3092.0	1498	175282	1.21	295	297	-32	262	17427
3092.5	1648	200321	1.19	304	306	-36	267	19958
3093.0	1802	227082	1.18	312	315	-40	271	22638
3093.5	1960	255576	1.15	321	323	-44	276	25468
3094.0	2123	285817	1.15	330	332	-48	280	28446
3094.5	2290	317823	1.14	338	341	-53	285	31575
3095.0	2461	351609	1.14	347	349	-57	289	34853
3095.5	2637	387194	1.13	356	359	-61	293	38283
3096.0	2817	424598	1.13	364	367	-65	298	41865
3096.5	3001	463839	1.12	373	375	-69	302	45600
3097.0	3189	504940	1.12	381	384	-74	307	49489
3097.5	3382	547919	1.11	390	393	-78	311	53534
3098.0	3579	592799	1.11	399	401	-82	316	57736
3098.5	3781	639599	1.11	407	410	-86	320	62096
3099.0	3987	688302	1.10	415	419	-90	325	66616
3099.5	4197	739051	1.10	425	427	-95	329	71297
3100.0	4411	791747	1.10	433	436	-99	333	76139
3100.5	4630	846453	1.10	442	445	-103	338	81145
3101.0	4853	903189	1.10	450	454	-107	342	86316
3101.5	5081	961940	1.09	459	462	-111	347	91654
3102.0	5312	1022847	1.09	468	471	-115	351	97159
3102.5	5548	1085812	1.09	476	480	-120	356	102833
3103.0	5789	1150977	1.09	485	488	-124	360	108696

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN
 SECID=C AT DISTANCE= 900 PART 1 OF 1

KS	A	K	ALPHA	R	P	LEW	DEW	QC
3084.0	14	404	1.00	16	16	197	213	72
3084.5	22	816	1.00	19	19	196	214	138
3085.0	32	1391	1.00	21	22	194	215	227
3085.5	44	2126	1.00	23	24	194	217	337
3086.0	56	3017	1.00	25	27	193	218	467
3086.5	69	4070	1.00	28	29	192	219	618
3087.0	83	5292	1.00	30	31	191	221	791
3087.5	99	6689	1.00	32	34	190	222	985
3088.0	115	8271	1.00	34	36	189	223	1202
3088.5	139	10322	1.07	60	62	188	248	1154
3089.0	175	12915	1.21	86	89	187	274	1289
3089.5	225	16271	1.34	113	115	186	299	1561
3090.0	287	20646	1.41	134	136	185	319	2011
3090.5	359	26087	1.42	152	154	184	336	2624
3091.0	435	32941	1.36	159	162	184	343	3506
3091.5	517	41154	1.28	162	165	183	344	4627
3092.0	598	50374	1.22	164	167	182	345	5877
3092.5	681	60655	1.17	170	174	177	347	7147
3093.0	772	72356	1.16	193	196	156	348	8147
3093.5	874	85272	1.06	215	219	135	350	9259
3094.0	987	99523	1.18	239	242	9	351	10482
3094.5	1117	115087	1.22	288	292	4	353	11288
3095.0	1270	132675	1.26	326	330	7	354	12659
3095.5	1441	152791	1.30	349	354	5	355	14578
3096.0	1616	175563	1.30	351	356	5	357	17249
3096.5	1792	200277	1.29	354	359	4	358	20159
3097.0	1970	226537	1.27	356	361	4	359	23249
3097.5	2148	254170	1.26	358	364	3	361	26423
3098.0	2328	283217	1.24	359	366	2	362	30148
3098.5	2508	313928	1.22	352	359	1	363	33854
3099.0	2590	350262	1.21	355	371	0	365	37730
3099.1	2726	357117	1.20	355	371	0	365	38525

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN
 SECID=D AT DISTANCE= 1750 PART 1 OF 2

KS	A	K	ALPHA	R	P	LEW	DEW	QC
3092.0	24	1259	1.00	26	26	65	61	209
3092.5	34	2063	1.00	29	30	63	62	332
3093.0	42	3081	1.00	33	33	61	64	482
3093.5	54	4326	1.00	36	37	59	65	661
3094.0	68	5812	1.00	40	41	57	66	871
3094.5	118	7553	1.00	43	44	54	69	1113

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK 10.50.100.500 UP & DOWN R-F
 SECTION=D AT DISTANCE= 1750 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3095.0	141	9564	1.00	47	48	52	69	1389
3095.5	165	11858	1.00	50	52	50	100	1698
3096.0	191	14549	1.01	59	61	48	107	1944
3096.5	226	17827	1.04	77	79	46	123	2138
3097.0	269	21747	1.09	96	97	43	139	2452
3097.5	322	26401	1.12	114	116	41	155	2888
3098.0	383	32077	1.13	131	133	38	169	3489
3098.5	452	38833	1.13	147	149	35	182	4225
3099.0	536	46310	1.17	185	187	32	217	4807
3099.5	636	56261	1.15	204	206	29	233	5935
3100.0	742	67819	1.13	222	224	27	249	7243
3100.5	856	81079	1.11	240	242	24	264	8734
3101.0	982	96134	1.09	259	261	21	280	10411
3101.5	1117	109958	1.03	278	280	8	286	12517
3102.0	1257	131841	1.02	282	285	6	289	14920
3102.5	1399	155563	1.01	286	289	5	292	17457
3103.0	1544	181049	1.01	291	293	4	295	20125
3103.5	1690	208295	1.00	295	298	3	298	22921
3104.0	1839	237263	1.00	299	302	2	301	25843
3104.5	1989	267930	1.00	303	306	1	304	28890
3105.0	2145	293236	1.00	321	324	0	321	31439

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK 10.50.100.500 UP & DOWN R-F
 SECTION=H+4.5 AT DISTANCE= 2044 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3095.0	21	555	1.06	22	22	69	69	114
3095.5	33	1269	1.00	26	26	65	61	206
3097.0	36	2063	1.00	29	30	63	57	332
3097.5	52	3081	1.00	33	33	61	54	492
3099.0	72	4324	1.00	36	37	59	55	661
3099.5	90	5812	1.06	40	41	57	54	871
3099.8	119	7553	1.00	43	44	54	50	1113
3099.9	141	9564	1.00	47	48	52	69	1389
3100.0	165	11858	1.00	50	52	50	100	1698
3100.5	191	14549	1.01	59	61	48	107	1944
3101.0	226	17827	1.04	77	79	46	123	2138
3101.5	269	21747	1.09	96	97	43	139	2452
3102.0	322	26401	1.12	114	116	41	155	2888
3102.5	383	32077	1.13	131	133	38	169	3489
3103.0	452	38833	1.13	147	149	35	182	4225
3103.5	536	46310	1.17	185	187	32	217	4807
3104.0	636	56261	1.15	204	206	29	233	5935

CROSS-SECTION PROPERTIES FOR: HUTTON CREEK 10,50,100,500 UP & DOWN B-F
 SECTION=B+4.5 AT DISTANCE= 2044 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3104.5	742	67819	1.13	222	224	27	249	7243
3105.0	858	81079	1.11	240	242	24	264	8734
3105.5	982	96134	1.09	259	261	21	280	10411
3106.0	1117	109958	1.03	278	280	8	286	12517
3106.5	1257	131841	1.02	282	285	6	289	14920
3107.0	1399	155553	1.01	286	289	5	292	17457
3107.5	1544	181049	1.01	291	293	4	295	20125
3108.0	1690	208295	1.00	295	298	3	298	22921
3108.5	1839	237263	1.00	299	302	2	301	25843
3109.0	1989	267930	1.00	303	306	1	304	28890
3109.5	2145	293886	1.00	321	324	0	321	31439

CROSS-SECTION PROPERTIES FOR: HUTTON CREEK 10,50,100,500 UP & DOWN B-F
 SECTION=PC-1 AT DISTANCE= 2323 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	QC
3106.0	8	149	1.00	15	15	74	89	36
3106.5	17	518	1.00	18	19	73	91	91
3107.0	27	1007	1.00	22	22	71	93	169
3107.5	39	1680	1.00	25	26	69	94	267
3108.0	52	2603	1.03	32	33	64	96	374
3108.5	71	3803	1.07	40	41	58	98	514
3109.0	92	5337	1.09	46	47	53	100	706
3109.5	117	7233	1.09	53	54	49	102	944
3110.0	146	9581	1.10	60	70	44	113	1146
3110.5	179	12724	1.16	83	85	37	121	1440
3111.0	230	16536	1.21	108	109	31	129	1728
3111.5	243	21586	1.26	135	136	24	159	2173
3112.0	365	27661	1.28	158	159	13	171	2781
3112.5	450	35509	1.27	174	179	4	182	3604
3113.0	543	45325	1.22	192	193	2	194	4674
3113.5	642	56942	1.16	203	205	1	204	5948
3114.0	745	70551	1.14	209	210	0	208	7479
3114.5	853	85631	1.11	214	216	-1	212	9136
3115.0	959	102156	1.09	220	221	-2	217	10912
3115.5	1070	120013	1.07	225	227	-3	221	12787
3116.0	1185	138905	1.06	233	235	-4	228	14714
3116.5	1303	159224	1.05	241	243	-6	234	16757
3117.0	1425	181015	1.05	248	251	-7	240	18922
3117.5	1551	204296	1.04	256	258	-8	247	21209
3118.0	1681	229355	1.04	263	265	-9	253	23655
3118.5	1814	256935	1.03	267	270	-11	256	26358
3119.0	1948	286001	1.03	272	275	-12	259	29172

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN R-F
 SECTID=BC-1 AT DISTANCE= 2328 PART 2 OF 2

WS	A	K	ALPHA	R	P	LEW	REW	QC
3113.5	2086	316547	1.02	276	279	-13	262	32098
3113.9	2197	342050	1.02	280	281	-14	265	34518

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN R-F
 SECTID=C-4.4 AT DISTANCE= 2612 PART 1 OF 1

WS	A	K	ALPHA	R	P	LEW	REW	QC
3105.0	13	382	1.00	15	16	102	117	69
3105.5	21	771	1.00	18	19	101	119	133
3106.0	31	1297	1.00	21	22	101	122	215
3106.5	42	1970	1.00	23	25	101	124	320
3107.0	54	2801	1.00	26	28	100	126	445
3107.5	73	3850	1.13	84	87	17	129	367
3108.0	129	5426	1.30	122	124	15	138	664
3108.5	195	10787	1.20	141	144	15	157	1186
3109.0	271	16749	1.15	151	165	15	177	1857
3109.5	357	24380	1.13	181	185	15	196	2669
3110.0	450	33989	1.10	191	194	14	205	3738
3110.5	547	45277	1.08	198	201	13	211	4969
3111.0	648	58135	1.07	205	209	12	217	6327
3111.5	752	72645	1.06	211	215	11	223	7829
3112.0	859	89821	1.05	216	220	10	227	9482
3112.5	969	105610	1.04	221	225	10	230	11272
3113.0	1079	126309	1.03	223	227	9	231	13256
3113.5	1191	147459	1.03	225	230	8	232	15347
3114.0	1204	170021	1.02	227	232	7	234	17541
3114.5	1412	193960	1.02	229	234	6	235	19835
3115.0	1533	219259	1.02	231	237	5	236	22226
3115.5	1649	245864	1.01	233	239	4	237	24712
3116.0	1756	273782	1.01	235	241	3	238	27292
3116.5	1884	302983	1.01	237	243	2	239	29964
3117.0	2004	333452	1.01	239	246	1	240	32726
3117.5	2124	365304	1.01	241	248	0	241	35589
3117.8	2196	385282	1.01	242	249	0	242	37376

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN R-F
 SECID=E AT DISTANCE= 2890 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3110.0	23	865	1.00	18	19	101	120	148
3110.5	33	1419	1.00	21	22	101	122	235
3111.0	44	2123	1.00	24	25	101	124	343
3111.5	57	2986	1.00	26	28	100	127	473
3112.0	83	4170	1.24	112	115	17	129	364
3112.5	142	7169	1.28	125	128	16	142	755
3113.0	209	11846	1.19	145	148	16	161	1308
3113.5	287	18134	1.14	165	169	15	181	2008
3114.0	375	26109	1.13	185	189	15	200	2849
3114.5	469	36115	1.10	192	196	14	206	3973
3115.0	567	47713	1.08	199	203	13	212	5229
3115.5	668	60884	1.07	206	210	12	219	6612
3116.0	773	75745	1.06	212	216	11	223	8149
3116.5	880	92224	1.05	217	221	10	228	9825
3117.0	990	110419	1.04	221	225	9	230	11659
3117.5	1101	130411	1.03	223	228	8	232	13665
3118.0	1213	151845	1.03	225	230	7	233	15777
3118.5	1327	174695	1.02	227	232	6	234	17991
3119.0	1441	198896	1.02	229	235	5	235	20304
3119.5	1556	224451	1.01	232	237	4	236	22714
3120.0	1672	251327	1.01	234	239	3	237	25219
3120.5	1790	279502	1.01	236	242	3	238	27818
3121.0	1908	308958	1.01	238	244	2	239	30507
3121.5	2027	339678	1.01	240	246	1	240	33287
3122.0	2148	371898	1.01	242	248	0	242	36180
3122.2	2196	385276	1.01	242	240	0	242	37376

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN R-F
 SECID=C+4.0 AT DISTANCE= 3213 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	REW	QC
3114.0	23	865	1.00	18	19	101	120	148
3114.5	33	1419	1.00	21	22	101	122	235
3115.0	44	2123	1.00	24	25	101	124	343
3115.5	57	2986	1.00	26	28	100	127	473
3116.0	83	4170	1.24	112	115	17	129	364
3116.5	142	7169	1.28	125	128	16	142	755
3117.0	209	11846	1.19	145	148	16	161	1308
3117.5	287	18134	1.14	165	169	15	181	2008
3118.0	375	26109	1.13	185	189	15	200	2849
3118.5	469	36115	1.10	192	196	14	206	3973
3119.0	567	47713	1.08	199	203	13	212	5229
3119.5	668	60884	1.07	206	210	12	219	6612

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK 10, 50, 100, 500 UP & DOWN R-F
 SFCID=C+4.0 AT DISTANCE= 3213 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	DC
3120.0	773	75746	1.06	212	216	11	223	8149
3120.5	880	92224	1.05	217	221	10	228	9825
3121.0	990	119419	1.04	221	225	9	230	11659
3121.5	1101	130411	1.03	223	228	8	232	13665
3122.0	1213	151845	1.03	225	230	7	233	15777
3122.5	1327	174685	1.02	227	232	6	234	17991
3123.0	1441	198896	1.02	229	235	5	235	20304
3123.5	1556	224451	1.01	232	237	4	236	22714
3124.0	1672	251327	1.01	234	239	3	237	25219
3124.5	1790	279502	1.01	236	242	3	238	27818
3125.0	1909	308958	1.01	238	244	2	239	30507
3125.5	2027	339678	1.01	240	246	1	240	33287
3126.0	2148	371898	1.01	242	248	0	242	36180
3126.2	2196	385276	1.01	242	249	0	242	37376

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK 10, 50, 100, 500 UP & DOWN R-F
 SFCID=D-4.0 AT DISTANCE= 3487 PART 1 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	DC
3117.0	19	634	1.00	16	17	94	110	121
3117.5	28	1075	1.00	17	18	93	110	197
3118.0	37	1619	1.00	19	20	92	111	290
3118.5	54	2017	1.18	58	59	91	149	275
3119.0	93	2987	1.16	97	99	90	188	478
3119.5	151	5072	1.04	137	139	90	227	887
3120.0	229	9014	1.00	164	166	89	252	1533
3120.5	312	14608	1.01	170	172	88	258	2386
3121.0	399	21930	1.03	177	179	87	264	3351
3121.5	489	30317	1.04	183	185	86	269	4433
3122.0	582	39934	1.05	190	192	85	275	5629
3122.5	677	51493	1.07	191	194	85	276	6993
3123.0	774	64071	1.08	201	205	71	277	8290
3123.5	874	78057	1.10	216	219	62	278	9599
3124.0	979	93558	1.11	225	229	53	279	11136
3124.5	1144	110421	1.13	235	239	45	279	12782
3125.0	1224	128630	1.14	246	250	5	280	14484
3125.5	1350	148265	1.16	257	262	5	281	16301
3126.0	1482	169311	1.17	270	275	4	282	18187
3126.5	1629	192162	1.18	280	285	3	283	20347
3127.0	1760	216852	1.18	281	287	3	284	22983
3127.5	1901	243048	1.18	283	289	2	285	25756
3128.0	2043	270643	1.18	284	296	2	286	28658
3128.5	2185	299599	1.17	286	292	1	287	31681

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK 10.50,100.500 UP & DOWN R-F
 SECID=D-4.0 AT DISTANCE= 3487 PART 2 OF 2

WS	A	K	ALPHA	B	P	LEW	RFW	OC
3129.0	2329	329882	1.17	287	294	0	287	34822
3129.3	2415	344672	1.16	288	295	0	288	36760

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK 10.50,100.500 UP & DOWN R-F
 SECID=F AT DISTANCE= 3810 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	RFW	OC
3121.0	19	634	1.00	16	17	94	110	121
3121.5	24	1075	1.00	17	18	93	110	197
3122.0	37	1619	1.00	19	20	92	111	290
3122.5	54	2017	1.18	58	59	91	149	275
3123.0	93	2987	1.16	97	99	90	188	478
3123.5	151	5072	1.04	137	139	90	227	887
3124.0	229	9014	1.00	164	166	89	252	1533
3124.5	312	14808	1.01	170	172	88	258	2386
3125.0	399	21930	1.03	177	179	87	264	3351
3125.5	489	30317	1.04	183	186	86	269	4433
3126.0	592	39934	1.05	190	192	85	275	5629
3126.5	677	51403	1.07	191	194	85	276	6993
3127.0	774	64071	1.08	201	205	71	277	8290
3127.5	879	79057	1.10	216	219	62	278	9599
3128.0	989	93558	1.11	225	229	53	279	11136
3128.5	1104	110421	1.13	235	239	45	279	12762
3129.0	1224	128530	1.14	246	250	5	280	14484
3129.5	1359	148265	1.16	257	262	5	281	16301
3130.0	1482	169311	1.17	270	275	4	282	18187
3130.5	1620	192102	1.18	280	285	3	283	20347
3131.0	1766	215852	1.18	281	287	3	284	22983
3131.5	1901	243048	1.18	283	289	2	285	25756
3132.0	2043	270643	1.18	284	290	2	285	28658
3132.5	2165	299599	1.17	285	292	1	287	31681
3133.0	2329	329882	1.17	287	294	0	287	34822
3133.3	2415	344672	1.16	288	295	0	288	36760

PAGE 1 OF PROFILE NOTES FOR: MUTTON CREEK 10.50, 100.500 UP & DOWN R-F
 PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECTION: ERROR (WARNING) MESSAGE; INTERMEDIATE RESULTS (IF ANY); ACTION TAKEN

C	: KH/KD < 0.7 OR > 1.4	:			
D	: WS TOO LOW	:			ALERTED USER
R+4.5	: WS TOO LOW	:			USED WSMIN = WSC
R+4.5	: WS NOT FOUND BETWEEN	:			USED WSMIN = WSC
		:	WS = 3097.59	& WS = 3109.50	
R+4.5	: WS NOT FOUND	:			USED DEL = 0.25
HC-1	: WS TOO LOW	:			ASSUMED WS = WSC
HC-1	: KH/KD < 0.7 OR > 1.4	:			USED WSMIN = WSC
C-4.4	: WS TOO LOW	:			ALERTED USER
C-4.4	: WS NOT FOUND BETWEEN	:			USED WSMIN = WSC
		:	WS = 3107.82	& WS = 3117.80	
C-4.4	: WS NOT FOUND	:			USED DEL = 0.25
		:			ASSUMED WS = WSC
E	: WS TOO LOW	:			USED WSMIN = WSC
E	: WS NOT FOUND BETWEEN	:			
		:	WS = 3117.22	& WS = 3122.20	
E	: WS NOT FOUND	:			USED DEL = 0.25
		:			ASSUMED WS = WSC
L+4.0	: WS TOO LOW	:			USED WSMIN = WSC
L+4.0	: WS NOT FOUND BETWEEN	:			
		:	WS = 3116.22	& WS = 3126.20	
L+4.0	: WS NOT FOUND	:			USED DEL = 0.25
		:			ASSUMED WS = WSC
R	: WS TOO LOW	:			USED WSMIN = WSC

WATER-SURFACE PROFILE FOR: MUTTON CREEK (10) 50, 100, 500 (UP) & DOWN A-F
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECTION	AT	HS ELEV	HV	HF	HE	EG	V	FN	ACC	ID#
P	AT	512	0	510	166	12791	1.12	92	167	
		3085.88	0.16			3086.04	3.06	0.31		*IS*
C	AT	900	388	510	86	5575	1.00	191	221	
		3087.11	0.54	1.42	5.19	3087.65	5.90	0.61	0.000	*XS*
D	AT	1760	860	510	99	5916	1.00	57	96	
		3094.03	0.41	6.78	0.0	3094.44	5.15	0.58	0.015	*XS*
H-4.5	AT	2044	254	510	65	3294	1.00	61	94	
		3097.59	0.97	*****	*****	3099.56	7.88	0.99	*****	*XS*
RC-1	AT	2328	284	510	82	4616	1.08	56	99	
		3102.78	0.65	4.86	0.0	3103.43	6.21	0.74	0.012	*XS*
C-4.4	AT	2612	204	510	108	5250	1.32	16	131	
		3107.42	0.46	*****	*****	3108.28	4.71	0.63	*****	*XS*
F	AT	2896	218	510	108	5247	1.32	16	131	
		3112.22	0.46	*****	*****	3112.58	4.71	0.63	*****	*XS*
C-4.0	AT	3213	223	510	104	5247	1.32	16	131	
		3116.22	0.46	*****	*****	3116.68	4.71	0.63	*****	*XS*
D-4.0	AT	3487	274	510	140	4602	1.04	90	220	
		3119.42	0.21	2.06	0.0	3119.63	3.63	0.41	0.002	*XS*
F	AT	3710	223	510	104	4571	1.05	90	220	
		3123.41	0.22	3.99	0.00	3123.53	3.65	0.42	0.001	*XS*

OK

OL

USE WS# 3108.06

USE WS# 3123.44

OK

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 15. DATE= 4/18/78

COMPUTED WSC VALUES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN R-F
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECTID	D	3+4.5	RC-1	C-4.4	E	C+4.0	F
WSC	3093.09	3097.59	3102.47	3107.82	3112.22	3116.22	3123.10

PAGE 1 OF PROFILE NOTES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN H-F
 PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

C	: KU/KD < 0.7 OR > 1.4	: ALERTED USER
D	: WS TOO LOW	: USED WSMIN = WSC
D	: KU/KD < 0.7 OR > 1.4	: ALERTED USER
H+4.5	: WS TOO LOW	: USED WSMIN = WSC
PC-1	: WS TOO LOW	: USED WSMIN = WSC
C-4.4	: WS TOO LOW	: USED WSMIN = WSC
C-4.4	: WS NOT FOUND BETWEEN	: USED WSMIN = WSC
	: WS = 3108.35 & WS = 3117.80	: USED DEL = 0.25
C-4.4	: WS NOT FOUND	: ASSUMED WS = WSC
E	: WS TOO LOW	: USED WSMIN = WSC
F	: WS NOT FOUND BETWEEN	: USED DEL = 0.25
	: WS = 3112.75 & WS = 3122.20	: ASSUMED WS = WSC
F	: WS NOT FOUND	: ASSUMED WS = WSC
C+4.0	: TOL FAILURE BETWEEN	: USED HIGHER WS
	: WS = 3112.50 & WS = 3112.75	:

WATER-SURFACE PROFILE FOR: MUTTON CREEK 10 (50) 100.500 (UP) & DOWN B-F
 PAGE 1 OF 1, PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SECT	AT	WS ELEV	HV	HF	HE	FG	V	FM	ACC	ID
R	AT	512	0	970	943	92723	1.31	-16	241	
		3090.00	0.02		3090.02	1.03	0.09			*IS*
C	AT	900	388	970	298	21426	1.41	185	322	
		3090.08	0.23	0.18	0.11	3090.31	3.26	0.33	-0.000	*XS*
D	AT	1760	160	970	121	7779	1.00	54	98	
		3094.56	1.00	4.86	0.38	3095.56	8.02	0.95	0.009	*XS*
R+4.5	AT	2044	284	970	120	7666	1.00	54	98	
		3099.03	1.02	4.46	0.01	3100.05	8.10	0.86	-0.000	*XS*
RC-1	AT	2328	284	970	122	7624	1.09	48	102	
		3103.59	1.08	4.57	0.03	3104.67	7.96	0.88	0.017	*XS*
C-4.4	AT	2512	284	970	174	9307	1.23	16	151	
		3108.35	0.59	*****	*****	3108.94	5.57	0.70	*****	*XS*
F	AT	2890	278	970	174	9302	1.23	16	151	
		3112.75	0.59	*****	*****	3113.34	5.57	0.70	*****	*XS*
C+4.0	AT	3213	323	970	159	8272	1.25	16	147	
		3116.63	0.72	3.95	0.07	3117.36	6.10	0.78	0.001	*XS*
D-4.0	AT	3487	274	970	250	10383	1.00	89	254	
		3120.13	0.23	3.00	0.0	3120.36	3.88	0.63	0.003	*XS*
F	AT	3810	323	970	207	7722	1.01	89	251	
		3123.87	0.34	3.79	0.05	3124.21	4.68	0.82	0.003	*XS*

USE WGA 3108.64

USE WGA 3112.89

USE CRIT 3116.75

CRIT - 3114.59

3123.59

END OF THIS PROFILE

USGS STEP-BACKWATER PROGRAM - VERSION 77.180 *** PAGE COUNT= 18 DATE= 4/18/78

COMPUTED WSC VALUES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F
PROFILE NUMBER 2, UPSTREAM COMPUTATIONS

SFCID	D	B+4.5	PC-1	DC-4.4	F
WSC	3094.21	3078.71	3103.55	3108.35	3112.75

PAGE 1 OF PROFILES NOTES FOR: MUTTON CREEK 10.50, 100.500 UP & DOWN B-F
 PROFILE NUMBER 3. UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

C	: KU/KD < 0.7 OR > 1.4		ALERTED USER
D	: FROM FAILURE	: WS = 3094.51 & FR = 1.08:	USED HIGHER WS
D	: WS NOT FOUND BETWEEN	: WS = 3091.78 & WS = 3105.00:	USED DEL = 0.25
D	: FROM FAILURE	: WS = 3094.51 & FR = 1.08:	USED HIGHER WS
D	: WS NOT FOUND BETWEEN	: WS = 3091.78 & WS = 3105.00:	USED WSMIN = WSC
D	: WS NOT FOUND		ASSUMED WS = WSC
B+4.5:	WS TOO LOW		USED WSMIN = WSC
BG-1:	TOL FAILURE BETWEEN	: WS = 3099.52 & WS = 3099.77:	USED HIGHER WS
C-4.4:	WS TOO LOW		USED WSMIN = WSC
C-4.4:	WS NOT FOUND BETWEEN	: WS = 3108.56 & WS = 3117.80:	USED DEL = 0.25
C-4.4:	WS NOT FOUND		ASSUMED WS = WSC
E	: TOL FAILURE BETWEEN	: WS = 3108.91 & WS = 3109.06:	USED HIGHER WS
C+4.0:	TOL FAILURE BETWEEN	: WS = 3112.37 & WS = 3112.62:	USED HIGHER WS
C+4.0:	KU/KD < 0.7 OR > 1.4		ALERTED USER
D-4.0:	KU/KD < 0.7 OR > 1.4		ALERTED USER

WATER-SURFACE PROFILE FOR: MUTTON CREEK 10.50 (100) 500 (UP) & DOWN R-F
 PAGE 1 OF 1, PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECT	AT	DIS	LEN	DIS	AREA	CONV	ALPH	IFW	RFW
WS ELEV	HV	HF	HE	EG	V	FM	ACC	*ID*	
B	AT	512	0	1200	1498	175282	1.21	-33	262
3092.00	0.01			3092.01	0.80	0.06		*IS*	
C	AT	900	388	1200	603	50992	1.21	182	346
3092.03	0.07	0.06	0.03	3092.11	1.99	0.19		0.000	*XS*
D	AT	1760	860	1200	126	8205	1.00	54	98
3094.67	1.42	*****	*****	3096.08	9.54	1.00		*****	*XS*
B+4.5	AT	2044	284	1200	154	10768	1.00	51	100
3099.77	0.95	4.63	0.0	3100.72	7.81	0.77		0.005	*XS*
BC-1	AT	2328	284	1200	137	8886	1.09	45	103
3103.87	1.29	4.27	0.17	3105.16	8.74	0.94		-0.003	*XS*
C-4.4	AT	2612	284	1200	204	11465	1.19	16	160
3109.56	0.64	*****	*****	3109.20	5.87	0.71		*****	*XS*
E	AT	2890	278	1200	157	8146	1.25	16	146
3112.52	1.14	4.29	0.25	3113.76	7.64	0.98		0.018	*XS* LESS THAN CRITICAL
C+4.0	AT	3213	323	1200	245	14601	1.16	15	170
3117.24	0.43	3.91	0.0	3117.67	4.90	0.56		0.000	*XS*
D-4.0	AT	3487	274	1200	239	9699	1.00	89	253
3120.07	0.39	2.79	0.0	3120.46	5.01	0.83		0.001	*XS*
F	AT	3810	323	1200	269	11707	1.00	88	255
3124.25	0.31	4.10	0.0	3124.56	4.45	0.70		0.003	*XS*

END OF THIS PROFILE

USE W&A = 3100.84

USE W&A = 3112.07

CRIT OK

OK

CRIT

OK

Profile smoothed USE 3120.5

COMPUTED WSC VALUES FOR: MUTTON CREEK 10+50, 100+500 UP & DOWN B-F
PROFILE NUMBER 3, UPSTREAM COMPUTATIONS

SECTID	D	B+4.5	C-4.4
WSC	3094.67	3099.17	3108.56

PAGE 1 OF PROFILE NOTES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F
 PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

C	: KU/KD < 0.7 OR > 1.4				ALERTED USER
D	: FRDN FAILURE				
		: WS = 3095.61 & FR = 1.09;			USED HIGHER WS
D	: WS NOT FOUND BETWEEN				
		: WS = 3092.99 & WS = 3105.00;			USED DEL = 0.25
D	: FRDN FAILURE				
		: WS = 3095.60 & FR = 1.09;			USED HIGHER WS
D	: WS NOT FOUND BETWEEN				
		: WS = 3092.99 & WS = 3105.00;			USED WSPIN = WSC
D	: WS NOT FOUND				
					ASSUMED WS = WSC
C-4.4	: FRDN FAILURE				
		: WS = 3104.90 & FR = 33.75;			USED HIGHER WS
E	: FRDN FAILURE				
		: WS = 3109.73 & FR = 18.18;			USED HIGHER WS
E	: FRDN FAILURE				
		: WS = 3113.09 & FR = 1.04;			USED HIGHER WS
E	: WS NOT FOUND BETWEEN				
		: WS = 3108.92 & WS = 3122.20;			USED DEL = 0.25
E	: FRDN FAILURE				
		: WS = 3109.73 & FR = 18.17;			USED HIGHER WS
E	: FRDN FAILURE				
		: WS = 3113.09 & FR = 1.03;			USED HIGHER WS
E	: WS NOT FOUND BETWEEN				
		: WS = 3108.92 & WS = 3122.20;			USED WSPIN = WSC
E	: WS NOT FOUND				
					ASSUMED WS = WSC
C+4.0	: FRDN FAILURE				
		: WS = 3113.34 & FR = 31.42;			USED HIGHER WS

WATER-SURFACE PROFILE FOR: MUTTON CREEK 10,50,100 (500 UP) 5 DOWN B-F
 PAGE 1 OF 1, PROFILE NUMBER 4, UPSTREAM COMPUTATIONS

SECT	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
MS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
H	AT	512	0	1920	1865	238268	1.17	-43	273
		3093.20	0.02			3093.22	1.03	0.07	*IS*
C	AT	900	388	1920	818	78307	1.16	146	349
		3093.24	0.10	0.08	0.04	3093.34	2.35	0.18	-0.001 *XS*
D	AT	1760	860	1920	182	13590	1.00	49	102
		3095.84	1.73	*****	*****	3097.56	10.53	0.99	***** *XS*
B+4.5	AT	2044	284	1920	215	16847	1.03	46	119
		3100.86	1.28	4.57	0.0	3102.14	8.92	0.82	0.001 *XS*
BC-1	AT	2328	284	1920	214	15247	1.18	33	126
		3104.93	1.48	4.08	0.10	3106.32	8.99	0.92	0.002 *XS*
		3104.82							
C-4.4	AT	2612	284	1920	299	19184	1.14	15	183
		3109.17	0.73	3.58	0.0	3109.90	6.42	0.70	0.003 *XS*
F	AT	2890	278	1920	283	17748	1.14	15	179
		3113.47	0.82	*****	*****	3114.29	6.79	0.75	***** *XS*
C+4.0	AT	3213	323	1920	273	16829	1.15	15	177
		3117.41	0.89	3.97	0.03	3118.30	7.04	0.79	0.000 *XS*
		3117.42							
D-4.0	AT	3487	274	1920	377	20032	1.02	87	262
		3120.88	0.41	2.98	0.0	3121.29	5.10	0.70	0.008 *XS*
F	AT	3910	323	1920	325	15841	1.01	88	259
		3124.58	0.55	3.75	0.07	3125.13	5.90	0.86	0.018 *XS*

SCRITOK

USE CRIT=3104.89

USE WBA=3109.42

USE VSA=3113.53

USE CRIT=3117.42

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: MUTTON CREEK 10, 50, 100, 500 UP & DOWN 78-F
PROFILE NUMBER 4. UPSTREAM COMPUTATIONS

SECID	D	E
WSC	3095.84	3113.47

PAGE 1 OF PROFILE NOTES FOR: MUTTON CREEK 10,50,100,500 UP & DOWN B-F
 PROFILE NUMBER 5: DOWNSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

F	: WS TOO LOW		ASSUMED WS = WSC
D-4.0	: WS NOT FOUND BETWEEN	: WS = 3119.10 & WS = 3115.70:	USED DEL = 0.25
D-4.0	: WS NOT FOUND BETWEEN	: WS = 3119.10 & WS = 3115.70:	USED KE = 0.5
D-4.0	: WS NOT FOUND		ASSUMED WS = WSC
C+4.0	: WS NOT FOUND BETWEEN	: WS = 3116.22 & WS = 3112.30:	USED DEL = 0.25
C+4.0	: WS NOT FOUND BETWEEN	: WS = 3116.22 & WS = 3112.30:	USED KE = 0.5
C+4.0	: WS NOT FOUND		ASSUMED WS = WSC
E	: SUPERCRITICAL WS		COMPUTED WSA
C-4.4	: SUPERCRITICAL WS		COMPUTED WSA
PC-1	: SUPERCRITICAL WS		COMPUTED WSA
B+4.5	: WS NOT FOUND BETWEEN	: WS = 3097.59 & WS = 3094.90:	USED DEL = 0.25
B+4.5	: WS NOT FOUND BETWEEN	: WS = 3097.59 & WS = 3094.90:	USED KE = 0.5
B+4.5	: WS NOT FOUND		ASSUMED WS = WSC
D	: WS NOT FOUND BETWEEN	: WS = 3093.09 & WS = 3090.40:	USED DEL = 0.25
D	: WS NOT FOUND BETWEEN	: WS = 3093.09 & WS = 3090.40:	USED KE = 0.5
D	: WS NOT FOUND		ASSUMED WS = WSC
C	: WS NOT FOUND BETWEEN	: WS = 3086.15 & WS = 3083.00:	USED DEL = 0.25
C	: WS NOT FOUND BETWEEN	: WS = 3086.15 & WS = 3083.00:	USED KE = 0.5
C	: WS NOT FOUND		ASSUMED WS = WSC
B	: WS NOT FOUND BETWEEN	: WS = 3083.77 & WS = 3080.60:	USED DEL = 0.25
B	: WS NOT FOUND BETWEEN	: WS = 3083.77 & WS = 3080.60:	

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WATER-SURFACE PROFILE FOR: MUTTON CREEK (10) 50, 100, 500 UP & (DOWN) B-F
PAGE 1 OF 1, PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HW	HF	HE	V	FM	ACC	RIDR		
F	AT	3810	0	510	103	3304	1.13	90	196
3123.10		0.43			3123.53	4.93	0.93		*JS*
B-4.0	AT	3487	-323	510	103	3304	1.13	90	196
3119.10		0.43			3119.53	4.93	0.93		*XS*
C+4.0	AT	3213	-274	510	100	5247	1.32	16	131
3116.22		0.45			3116.62	4.71	0.98		*XS*
F	AT	2890	-323	510	80	4069	1.21	17	129
3111.97		0.76			3112.73	6.37	1.41	0.010	*XS*
C-4.0	AT	2612	-274	510	79	4036	1.19	17	129
3107.56		0.71			3109.33	6.45	1.41	-0.005	*XS*
BC-1	AT	2328	-284	510	69	3691	1.07	59	98
3102.46		0.91			3103.37	7.40	1.02	0.004	*XS*
B+4.5	AT	2044	-294	510	65	3294	1.00	61	94
3097.59		0.97			3098.56	7.88	0.99		*XS*
D	AT	1760	-284	510	65	3294	1.00	61	94
3093.09		0.97			3094.06	7.88	0.99		*XS*
C	AT	900	-860	510	60	3316	1.00	192	218
3086.15		1.14			3087.29	8.56	1.00		*XS*
B	AT	512	-388	510	65	3677	1.00	118	151
3083.77		0.96			3084.73	7.85	0.99		*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: MUTTON CREEK 10, 50, 100, 500 UP & DOWN R-F
PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

SECID	B	C	D	B+4.5	RC-1	C-4.4	E	C+4.0
WSC	3083.77	3086.15	3093.09	3097.59	3102.47	3107.82	3112.22	3116.22

SECID	D-4.0	F
WSC	3119.17	3123.10

COMPUTED WSA VALUES FOR: MUTTON CREEK 10, 50, 100, 500 UP & DOWN R-F
PROFILE NUMBER 5, DOWNSTREAM COMPUTATIONS

SECID	RC-1	C-4.4	E
WSA	3102.51	3102.96	3112.44

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

F	WS TOO LOW		ASSUMED WS = WSC
D-4.0	WS NOT FOUND BETWEEN	WS = 3119.59 & WS = 3115.70	USED DEL = 0.25
D-4.0	WS NOT FOUND BETWEEN	WS = 3119.59 & WS = 3115.70	USED KE = 0.5
D-4.0	WS NOT FOUND		ASSUMED WS = WSC
C+4.0	WS NOT FOUND BETWEEN	WS = 3116.75 & WS = 3112.30	USED DEL = 0.25
C+4.0	WS NOT FOUND BETWEEN	WS = 3116.75 & WS = 3112.30	USED KE = 0.5
C+4.0	WS NOT FOUND		ASSUMED WS = WSC
F	SUPERCritical WS		COMPUTED WSA
C-4.4	SUPERCritical WS		COMPUTED WSA
BC-1	WS NOT FOUND BETWEEN	WS = 3103.55 & WS = 3099.40	USED DEL = 0.25
BC-1	WS NOT FOUND BETWEEN	WS = 3103.55 & WS = 3099.40	USED KE = 0.5
BC-1	WS NOT FOUND		ASSUMED WS = WSC
B+4.5	WS NOT FOUND BETWEEN	WS = 3098.71 & WS = 3094.90	USED DEL = 0.25
B+4.5	WS NOT FOUND BETWEEN	WS = 3098.71 & WS = 3094.90	USED KE = 0.5
B+4.5	WS NOT FOUND		ASSUMED WS = WSC
D	WS NOT FOUND BETWEEN	WS = 3094.21 & WS = 3090.40	USED DEL = 0.25
D	WS NOT FOUND BETWEEN	WS = 3094.21 & WS = 3090.40	USED KE = 0.5
D	WS NOT FOUND		ASSUMED WS = WSC
C	WS NOT FOUND BETWEEN	WS = 3087.46 & WS = 3083.00	USED DEL = 0.25
C	WS NOT FOUND BETWEEN	WS = 3087.46 & WS = 3083.00	USED KE = 0.5
C	WS NOT FOUND		

B : WS NOT FOUND BETWEEN

: WS = 3084.92 & WS = 3080.60;

ASSUMED WS = WSC

B : WS NOT FOUND BETWEEN

: WS = 3084.92 & WS = 3080.60;

USED DEL = 0.25

S B : WS NOT FOUND

USED KE = 0.5

ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: MUTTON CREEK 10.50 100.500 UP & DOWN R-F
 PAGE 1 OF 1, PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS. ELEV.	NV	REF	HE	EG	V	FN	ACC	ID	
E	AT	3810	0	970	164	5621	1.03	89	234
3123.59	0.56			3124.15	5.91	0.99		*IS*	
D-4.0	AT	3487	-323	970	164	5621	1.03	89	234
3119.59	0.56	*****	*****	3120.15	5.91	0.99	*****	*XS*	
C+4.0	AT	3213	-274	970	174	9302	1.23	16	151
3116.75	0.59	*****	*****	3117.34	5.57	0.96	*****	*XS*	
E	AT	2890	-323	970	158	8225	1.25	16	147
3112.63	0.73	3.97	0.0	3113.36	6.13	1.10	0.007	*XS*	
C-4.4	AT	2612	-278	970	144	7324	1.27	16	142
3108.12	0.90	4.34	0.0	3109.02	5.73	1.25	0.001	*XS*	
HC-1	AT	2328	-284	970	120	7439	1.09	48	102
3103.55	1.11	*****	*****	3104.67	6.12	1.00	*****	*XS*	
B+4.5	AT	2044	-284	970	106	6515	1.00	56	97
3098.71	1.30	*****	*****	3100.01	9.13	1.00	*****	*XS*	
D	AT	1760	-284	970	106	6515	1.00	56	97
3094.21	1.30	*****	*****	3095.51	9.13	1.00	*****	*XS*	
C	AT	900	-860	970	97	6559	1.00	190	222
3087.46	1.55	*****	*****	3089.00	9.97	1.00	*****	*XS*	
D	AT	512	-388	970	109	7475	1.01	109	156
3084.92	1.25	*****	*****	3085.16	8.90	1.04	*****	*XS*	

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: MUTTON CREEK 10, 50, 100, 500 UP & DOWN B-F
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECTID	R	C	D	B+4.5	HC-1	C-4.4	F	C+4.0
WSC	3084.92	3087.46	3094.21	3098.71	3103.55	3108.35	3112.75	3116.75

SECTID	D-4.0	F
WSC	3119.59	3123.59

COMPUTED WSA VALUES FOR: MUTTON CREEK 10, 50, 100, 500 UP & DOWN B-F
PROFILE NUMBER 6, DOWNSTREAM COMPUTATIONS

SECTID	BC-1	C-4.4	E
WSA	3102.51	3108.64	3112.89

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

F	: WS TOO LOW	:		:	ASSUMED WS = WSC
B-4.0	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3119.91 & WS = 3115.70	:	USED DEL = 0.25
B-4.0	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3119.91 & WS = 3115.70	:	USED KE = 0.5
B-4.0	: WS NOT FOUND	:		:	
		:		:	ASSUMED WS = WSC
C+4.0	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3116.97 & WS = 3112.30	:	USED DEL = 0.25
C+4.0	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3116.97 & WS = 3112.30	:	USED KE = 0.5
C+4.0	: WS NOT FOUND	:		:	
		:		:	ASSUMED WS = WSC
E	: SUPERCRITICAL WS	:		:	COMPUTED WSA
C-4.4	: SUPERCRITICAL WS	:		:	COMPUTED WSA
BC-1	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3103.93 & WS = 3099.40	:	USED DEL = 0.25
BC-1	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3103.93 & WS = 3099.40	:	USED KE = 0.5
BC-1	: WS NOT FOUND	:		:	
		:		:	ASSUMED WS = WSC
B+4.5	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3099.17 & WS = 3094.90	:	USED DEL = 0.25
B+4.5	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3099.17 & WS = 3094.90	:	USED KE = 0.5
B+4.5	: WS NOT FOUND	:		:	
		:		:	ASSUMED WS = WSC
D	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3094.67 & WS = 3090.40	:	USED DEL = 0.25
D	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3094.67 & WS = 3090.40	:	USED KE = 0.5
D	: WS NOT FOUND	:		:	
		:		:	ASSUMED WS = WSC
C	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3088.02 & WS = 3083.00	:	USED DEL = 0.25
C	: WS NOT FOUND BETWEEN	:		:	
		:	WS = 3088.02 & WS = 3083.00	:	USED KE = 0.5
C	: WS NOT FOUND	:		:	

H : WS NOT FOUND BETWEEN : WS = 3085.43 & WS = 3080.60 : ASSUMED WS = WSC
USED DEL = 0.25
B : WS NOT FOUND BETWEEN : WS = 3085.43 & WS = 3080.60 : ASSUMED WS = WSC
USED KE = 0.5
B : WS NOT FOUND : ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: MUTTON CREEK 10.50 100 500 UP & DOWN B-F

PAGE 1 OF 1, PROFILE NUMBER 7, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	PEW	WS ELEV	HV	HF	HF	EG	V	FN	ACC	ID
F		3810	0	1200	198	7199	1.01	89	250	3123.81	0.58			3124.39	6.06	0.97		*IS*
D-4.0	AT	3487	-323	1200	198	7199	1.01	89	250	3119.81	0.58	*****	*****	3120.39	6.06	0.97	*****	*XS*
C+4.0	AT	3213	-274	1200	205	11510	1.19	16	160	3116.97	0.64	*****	*****	3117.60	5.86	0.95	*****	*XS*
F	AT	2890	-523	1200	186	10156	1.21	16	155	3112.84	0.78	3.98	0.0	3113.62	6.44	1.08	0.006	*XS*
C-4.4	AT	2612	-278	1200	171	9083	1.23	16	150	3108.33	0.94	4.34	0.0	3109.27	7.02	1.22	0.010	*XS*
3C-1	AT	2328	-284	1200	141	9178	1.09	45	111	3103.93	1.23	*****	*****	3105.16	8.52	1.08	*****	*XS*
R+4.5	AT	2044	-284	1200	126	8205	1.00	54	98	3099.17	1.42	*****	*****	3100.58	9.54	1.00	*****	*XS*
D	AT	1760	-284	1200	126	8205	1.00	54	98	3094.67	1.42	*****	*****	3096.08	9.54	1.00	*****	*XS*
C	AT	900	-860	1200	115	8334	1.00	189	224	3088.02	1.67	*****	*****	3089.69	10.37	1.00	*****	*XS*
R	AT	512	-388	1200	137	9947	1.06	99	159	3085.43	1.27	*****	*****	3086.70	8.78	1.05	*****	*XS*

END OF THIS PROFILE

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COMPUTED WSC VALUES FOR: MUTTON CREEK 10, 50, 100, 500 UP & DOWN H-F
PROFILE NUMBER 7. DOWNSTREAM COMPUTATIONS

SECTID	R	C	D	R+4.5	RC-1	C-4.4	F	C+4.0
WSC	3085.43	3088.02	3094.67	3099.17	3103.93	3108.56	3112.97	3116.97

SECTID	D-4.0	F
WSC	3119.81	3123.81

COMPUTED WSA VALUES FOR: MUTTON CREEK 10, 50, 100, 500 UP & DOWN H-F
PROFILE NUMBER 7. DOWNSTREAM COMPUTATIONS

SECTID	RC-1	C-4.4	E
WSA	3102.51	3108.84	3113.09

*50 YL CAMP
NOT CLEAR*

SECTION ERROR (WARNING) MESSAGE: INTERMEDIATE RESULTS (IF ANY): ACTION TAKEN

F : WS TOO LOW : ASSUMED WS = WSC

D-4.0: WS NOT FOUND BETWEEN : WS = 3120.23 & WS = 3115.70; USED DEL = 0.25

D-4.0: WS NOT FOUND BETWEEN : WS = 3120.23 & WS = 3115.70; USED KE = 0.5

D-4.0: WS NOT FOUND : ASSUMED WS = WSC

C+4.0: WS NOT FOUND BETWEEN : WS = 3117.47 & WS = 3112.30; USED DEL = 0.25

C+4.0: WS NOT FOUND BETWEEN : WS = 3117.47 & WS = 3112.30; USED KE = 0.5

C+4.0: WS NOT FOUND : ASSUMED WS = WSC

E : SUPERCRITICAL WS : COMPUTED WSA

C-4.4: SUPERCRITICAL WS : COMPUTED WSA

RC-1 : WS NOT FOUND BETWEEN : WS = 3104.89 & WS = 3099.40; USED DEL = 0.25

RC-1 : WS NOT FOUND BETWEEN : WS = 3104.89 & WS = 3099.40; USED KE = 0.5

RC-1 : WS NOT FOUND : ASSUMED WS = WSC

B+4.5: WS NOT FOUND BETWEEN : WS = 3100.34 & WS = 3094.90; USED DEL = 0.25

B+4.5: WS NOT FOUND BETWEEN : WS = 3100.34 & WS = 3094.90; USED KE = 0.5

B+4.5: WS NOT FOUND : ASSUMED WS = WSC

D : WS NOT FOUND BETWEEN : WS = 3095.84 & WS = 3090.40; USED DEL = 0.25

D : WS NOT FOUND BETWEEN : WS = 3095.84 & WS = 3090.40; USED KE = 0.5

D : WS NOT FOUND : ASSUMED WS = WSC

C : WS NOT FOUND BETWEEN : WS = 3089.85 & WS = 3083.00; USED DEL = 0.25

C : WS NOT FOUND BETWEEN : WS = 3089.85 & WS = 3083.00; USED KE = 0.5

C : WS NOT FOUND

B. WS NOT FOUND BETWEEN

WS = 3085.80 & WS = 3080.60

ASSUMED WS = WSC

USED DEL = 0.25

R. WS NOT FOUND BETWEEN

WS = 3085.80 & WS = 3080.60

USED KE = 0.5

R. WS NOT FOUND

ASSUMED WS = WSC

WATER-SURFACE PROFILE FOR: MUTTON CREEK - 10+50,100 (500) UP & (DOWN) B-F
 PAGE 1 OF 1, PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	IFW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	TD*	
F	AT	3810	0	1920.	266.	11473.	1.00	88.	255.
3124.23	0.81				3125.04	7.22	1.01		*JS*
D-4.0	AT	3427	-323	1920.	266.	11473.	1.00	88.	255.
3120.23	0.81	*****	*****		3121.04	7.22	1.01	*****	*XS*
C+4.0	AT	3213	-274	1920.	283.	17748.	1.14	15.	179.
3117.47	0.82	*****	*****		3118.29	6.79	0.98	*****	*XS*
E	AT	2890	-323	1920.	272.	16806.	1.15	15.	177.
3113.40	0.89	3.99	0.0		3114.30	7.07	1.03	0.004	*XS*
C-4.6	AT	2612	-278	1920.	238.	14098.	1.16	15.	169.
3108.79	1.17	4.33	0.0		3109.97	8.05	1.23	0.003	*XS*
HC-1	AT	2328	-284	1920.	219.	15723.	1.18	32.	127.
3104.89	1.42	*****	*****		3106.31	8.77	1.11	*****	*XS*
R+4.5	AT	2044	-284	1920.	182.	13590.	1.00	49.	102.
3100.34	1.73	*****	*****		3102.06	10.53	1.01	*****	*XS*
D	AT	1760	-284	1920.	182.	13590.	1.00	49.	102.
3095.84	1.73	*****	*****		3097.56	10.53	1.01	*****	*XS*
C	AT	900	-360	1920.	268.	19237.	1.40	186.	314.
3089.85	1.12	*****	*****		3090.97	7.17	1.03	*****	*XS*
H	AT	512	-398	1920.	264.	20807.	1.35	53.	188.
3086.20	1.11	*****	*****		3087.91	7.26	1.07	*****	*XS*

END OF THIS PROFILE

COMPUTED WSC VALUES FOR: MUTTON CREEK 10, 50, 100, 500 UP & DOWN B-F
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	B	C	D	B+4.5	BC-1	C-4.4	F	C+4.0
WSC	3086.80	3089.85	3095.84	3100.34	3104.89	3109.07	3113.47	3117.47

SECID	D-4.0	F
WSC	3120.23	3124.23

COMPUTED WSA VALUES FOR: MUTTON CREEK 10, 50, 100, 500 UP & DOWN B-F
PROFILE NUMBER 8, DOWNSTREAM COMPUTATIONS

SECID	BC-1	C-4.4	E
WSA	3102.51	3109.42	3113.53

Floodway

INPUT SUMMARY FOR: MUTTON CREEK FLOODWAY FIRST

10 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 3 TYPE 3 CARDS

KEPT 3 CROSS SECTIONS FOR EDITING

3 " " VALID FOR PROPERTY COMPUTATIONS

3 " " " " PROFILE " "

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK FLOODWAY FIRST
 SECID=B AT DISTANCE= 512 PART 1 OF 1

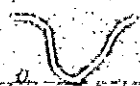
WS	A	K	ALPHA	B	P	LEW	REW	QC
3083.0	42	1937	1.00	27	28	121	148	296
3092.9	1771	221586	1.18	311	313	-39	270	22090
3102.8	5692	1124582	1.09	482	485	-122	358	106317
3103.0	5789	1150977	1.09	485	488	-124	360	108686

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK FLOODWAY FIRST
 SECID=C AT DISTANCE= 900 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3084.0	14	404	1.00	16	16	197	213	72
3093.9	963	96560	1.18	233	237	9	351	10232
3099.1	2726	357117	1.20	365	371	0	365	38525

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK FLOODWAY FIRST
 SECID=D AT DISTANCE= 1760 PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3092.0	33	1259	1.00	26	26	65	91	209
3101.9	1229	127313	1.02	281	284	7	288	14428
3105.0	2145	293886	1.00	321	324	0	321	31439



CROSS-SECTION PROPERTIES FOR: MUTTON CREEK FLOODWAY FIRST
 SECID=B AT DISTANCE= 512 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FIRST TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
3083.0	42	1937	1.00	27	28	121	148	296
3092.9	1205	172458	1.09	155	168	35	190	18258
3102.8	2739	624006	1.06	155	188	35	190	63380
3103.0	2770	635007	1.06	155	188	35	190	64453

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK FLOODWAY FIRST
 SECID=C AT DISTANCE= 900 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FIRST TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
3084.0	14	404	1.00	16	16	197	213	72
3093.9	681	75679	1.06	105	115	182	287	9565
3099.1	1227	186885	1.01	105	125	182	287	23659

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK FLOODWAY FIRST
 SECID=D AT DISTANCE= 1760 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FIRST TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
3092.0	33	1259	1.00	26	26	65	91	209
3101.9	444	55962	1.00	44	60	54	98	7998
3105.0	580	81894	1.00	44	66	54	98	11954

PAGE 1 OF PROFILE NOTES FOR: MUTTON CREEK FLOODWAY FIRST
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID; ERROR (WARNING) MESSAGE; INTERMEDIATE RESULTS (IF ANY); ACTION TAKEN

C ; KU/KD < 0.7 OR > 1.4 ; ALERTED USER

D ; KU/KD < 0.7 OR > 1.4 ; ALERTED USER

WATER-SURFACE PROFILE FOR: MUTTON CREEK FLOODWAY FIRST

PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

*** FLOODWAY ANALYSIS *** FIRST TRY

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
B	AT	512	0	1200.	1220.	175952.	1.09	35.	190.
3093.00	0.02			3093.02	0.98	0.06		*IS*	
C	AT	900	388	1200.	589.	60650.	1.08	182.	287.
3093.03	0.07	0.05	0.03	3093.10	2.04	0.15	0.000	*XS*	
D	AT	1760	860	1200.	130.	8639.	1.00	54.	98.
3094.76	1.33	2.36	0.63	3096.09	9.25	0.95	-0.001	*XS*	

100 YR LIMITS OK

END OF THIS PROFILE

SUMMARY OF ENCROACHMENTS FOR: MUTTON CREEK FLOODWAY FIRST
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FIRST TRY (PROFILE
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 1 OF 1

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
B	300	1	VHD	YES	CONS	1.00	1.00	*****	155
C	400	0	VHD	CONS	CONS	1.00	1.00	*****	105
D	500	0	HOR	YES	YES	*****	0.09	*****	44

INPUT SUMMARY FOR: MUTTON CREEK E-F FLOODWAY FIRST

4 CROSS SECTIONS SPECIFIED (OR ASSUMED)

FOUND 4 TYPE 3 CARDS

KEPT 4 CROSS SECTIONS FOR EDITING

4 " " VALID FOR PROPERTY COMPUTATIONS

4 " " " " PROFILE "

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK E-F FLOODWAY
 SECID=E AT DISTANCE= 2890 FIRST PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3110.0	23	865	1.00	18	19	101	120	148
3119.9	1649	245842	1.01	233	239	4	237	24710
3122.2	2196	385276	1.01	242	249	0	242	37376

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK E-F FLOODWAY
 SECID=C+4.0 AT DISTANCE= 3213 FIRST PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3114.0	23	865	1.00	18	19	101	120	148
3123.9	1649	245842	1.01	233	239	4	237	24710
3126.2	2196	385276	1.01	242	249	0	242	37376

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK E-F FLOODWAY
 SECID=D-4.0 AT DISTANCE= 3487 FIRST PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3117.0	19	634	1.00	16	17	94	110	121
3126.9	1732	211780	1.18	281	286	3	284	22444
3129.3	2415	348672	1.16	288	295	0	288	36760

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK E-F FLOODWAY
 SECID=F AT DISTANCE= 3810 FIRST PART 1 OF 1

WS	A	K	ALPHA	B	P	LEW	REW	QC
3121.0	19	634	1.00	16	17	94	110	121
3130.9	1732	211780	1.18	281	286	3	284	22444
3133.3	2415	348672	1.16	288	295	0	288	36760

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK E-F FLOODWAY FIRST
 SECID=E AT DISTANCE= 2890 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FIRST TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
3110.0	23	865	1.00	18	19	101	120	148
3119.9	1103	169936	1.01	130	147	16	146	18101
3122.2	1402	249403	1.02	130	152	16	146	25874

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK E-F FLOODWAY FIRST
 SECID=C+4.0 AT DISTANCE= 3213 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FIRST TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
3114.0	23	865	1.00	18	19	101	120	148
3123.9	467	61253	1.00	50	68	80	130	8084
3126.2	582	84856	1.00	50	73	80	130	11243

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK E-F FLOODWAY FIRST
 SECID=D-4.0 AT DISTANCE= 3487 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FIRST TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
3117.0	19	634	1.00	16	17	94	110	121
3126.9	586	63150	1.26	66	81	83	149	8824
3129.3	743	90913	1.28	66	85	83	149	12547

CROSS-SECTION PROPERTIES FOR: MUTTON CREEK E-F FLOODWAY FIRST
 SECID=F AT DISTANCE= 3810 PART 1 OF 1
 *** FLOODWAY ANALYSIS *** FIRST TRY

WS	A	K	ALPHA	B	P	LEW	REW	QC
3121.0	19	634	1.00	16	17	94	110	121
3130.9	528	54372	1.27	59	74	83	142	7966
3133.3	669	77762	1.28	59	79	83	142	11318

PAGE 1 OF PROFILE NOTES FOR: MUTTON CREEK E-F FLOODWAY FIRST
PROFILE NUMBER 1, UPSTREAM COMPUTATIONS

SECID: ERROR(WARNING) MESSAGE: INTERMEDIATE RESULTS(IF ANY): ACTION TAKEN

C+4.0: TOL FAILURE BETWEEN

| WS = 3112.84 & WS = 3113.09:

USED HIGHER WS

C+4.0: KU/KD < 0.7 OR > 1.4

ALERTED USER

D-4.0: KU/KD < 0.7 OR > 1.4

ALERTED USER

F : KU/KD < 0.7 OR > 1.4

ALERTED USER

WATER-SURFACE PROFILE FOR: MUTTON CREEK E-F FLOODWAY FIRST
 PAGE 1 OF 1, PROFILE NUMBER 1, UPSTREAM COMPUTATIONS
 *** FLOODWAY ANALYSIS *** FIRST TRY

SECID	AT	DISTANCE	LENGTH	DISCHARGE	AREA	CONVEYANCE	ALPHA	LEW	REW
WS ELEV	HV	HF	HE	EG	V	FN	ACC	ID	
E	AT	2890	0	1200.	218.	12829.	1.14	16.	146.
3113.09	0.54			3113.63	5.50	0.64			*IS*
C+4.0	AT	3213	323	1200.	124.	8121.	1.07	80.	130.
3117.06	1.55	4.46	0.50	3118.60	9.66	0.99	0.006		*XS*
D-4.0	AT	3487	274	1200.	232.	14543.	1.16	86.	149.
3121.47	0.48	3.34	0.0	3121.95	5.17	0.62	0.006		*XS*
F	AT	3810	323	1200.	172.	9244.	1.11	87.	142.
3124.75	0.84	3.46	0.18	3125.59	6.98	0.95	0.004		*XS*

END OF THIS PROFILE

SUMMARY OF ENCROACHMENTS FOR MUTTON CREEK E-F FLOODWAY FIRST
 RESULTS OF THE FLOODWAY ANALYSIS ENTITLED FIRST TRY (PROFILE
 NUMBER 1, UPSTREAM COMPUTATIONS) ARE COMPARED TO THE RESULTS OF THE
 BASE PROFILE (PROFILE NUMBER 1, UPSTREAM COMPUTATIONS). PAGE 1 OF 1

SECID	CARD 3 SEQUENCE	TYPE	FW OPTION	ENCROACHMENT		SURCHARGE		CHANNEL WIDTH	
				LEFT	RIGHT	IDEAL	ACTUAL	NATURAL	FLOODWAY
E	600	1	HOR	YES	YES	*****	0.0	*****	130
C+4.0	620	0	VHD	YES	CONS	1.00	-0.18	*****	50
D-4.0	630	0	VHD	CONS	YES	1.00	0.97	*****	62
F	700	0	VHD	CONS	YES	1.00	0.50	*****	54