

Table 4 Regulatory Flood Levels for 1:100 Year Flood Event
Revision 1 – June 3, 2011

| River/Creek | Reach | River Station | Xsec ID # | Q (Total) m ³ /s | Computed WSEL m | EGL m | RFL m | |
|-----------------|---------|---------------|-----------|--------------------------------------|------------------------|-------|-------|--|
| Kemptville Main | Kempt 1 | 476.97 | 7110 | 104.12 | 87.72 | 87.72 | 87.72 | |
| | Kempt 1 | 672.18 | 7115 | 104.12 | 87.72 | 87.72 | 87.72 | |
| | Kempt 1 | 1032.58 | 7120 | 104.12 | 87.72 | 87.72 | 87.72 | |
| | Kempt 1 | 1275.84 | 7125 | 104.12 | 87.72 | 87.72 | 87.72 | |
| | Kempt 1 | 1598.22 | 7130 | 104.12 | 87.72 | 87.72 | 87.72 | |
| | Kempt 1 | 1869.13 | 7135 | 104.12 | 87.72 | 87.72 | 87.72 | |
| | Kempt 1 | 2051.03 | 7140 | 104.12 | 87.72 | 87.72 | 87.72 | |
| | Kempt 1 | 2307.40 | 7145 | 104.12 | 87.72 | 87.72 | 87.72 | |
| | Kempt 1 | 2586.77 | 7150 | 104.12 | 87.72 | 87.72 | 87.72 | |
| | Kempt 1 | 2868.38 | 7155 | 104.12 | 87.72 | 87.72 | 87.72 | |
| | Kempt 1 | 3165.02 | 7160 | 104.12 | 87.72 | 87.72 | 87.72 | |
| | Kempt 1 | 3429.11 | 7165 | 104.12 | 87.73 | 87.73 | 87.73 | |
| | Kempt 1 | 3749.50 | 7170 | 104.12 | 87.72 | 87.73 | 87.72 | |
| | Kempt 1 | 4073.86 | 7175 | 104.12 | 87.72 | 87.74 | 87.72 | |
| | Kempt 1 | 4101.00 | | | County Road 43 Bridge | | | |
| | Kempt 1 | 4128.33 | 7180 | 104.12 | 87.77 | 87.78 | 87.77 | |
| | Kempt 1 | 4307.66 | 7185 | 104.12 | 87.79 | 87.79 | 87.79 | |
| | Kempt 1 | 4509.99 | 7190 | 104.12 | 87.79 | 87.80 | 87.79 | |
| | Kempt 1 | 4675.75 | 7195 | 104.12 | 87.80 | 87.81 | 87.80 | |
| | Kempt 1 | 4795.79 | 7200 | 104.12 | 87.81 | 87.82 | 87.81 | |
| | Kempt 1 | 4932.60 | 7205 | 104.12 | 87.79 | 87.84 | 87.84 | |
| | Kempt 1 | 4950.00 | | | Bridge Street Bridge | | | |
| | Kempt 1 | 4967.43 | 7210 | 104.12 | 87.97 | 88.05 | 87.97 | |
| | Kempt 1 | 5128.75 | 7215 | 104.12 | 88.07 | 88.07 | 88.07 | |
| | Kempt 2 | 184.49 | 7220 | 97.52 | 88.06 | 88.07 | 88.06 | |
| | Kempt 2 | 313.00 | 7225 | 97.52 | 88.08 | 88.08 | 88.08 | |
| | Kempt 2 | 465.25 | 7230 | 97.52 | 88.08 | 88.09 | 88.08 | |
| | Kempt 2 | 511.87 | 7232 | 97.52 | 88.08 | 88.09 | 88.08 | |
| | Kempt 2 | 587.30 | 7235 | 97.52 | 88.01 | 88.13 | 88.13 | |
| | Kempt 2 | 595.50 | | | Prescott Street Bridge | | | |
| | Kempt 2 | 607.62 | 7240 | 97.52 | 88.00 | 88.16 | 88.16 | |
| | Kempt 2 | 794.91 | 7245 | 97.52 | 88.24 | 88.29 | 88.24 | |
| | Kempt 2 | 971.68 | 7250 | 97.52 | 88.32 | 88.36 | 88.32 | |
| | Kempt 2 | 1133.39 | 7255 | 97.52 | 88.36 | 88.45 | 88.45 | |
| | Kempt 2 | 1342.03 | 7260 | 97.52 | 88.63 | 88.73 | 88.73 | |
| | Kempt 2 | 1517.17 | 7265 | 97.52 | 88.80 | 88.83 | 88.80 | |
| | Kempt 2 | 1730.79 | 7270 | 97.52 | 88.89 | 88.94 | 88.89 | |
| | Kempt 2 | 1821.06 | 7275 | 97.52 | 88.98 | 89.02 | 88.98 | |
| | Kempt 2 | 1936.49 | 7280 | 97.52 | 89.35 | 90.03 | 90.03 | |
| | Kempt 2 | 1952.00 | | | Hurd Street Bridge | | | |
| | Kempt 2 | 1975.80 | 7285 | 97.52 | 90.94 | 91.10 | 91.10 | |
| | Kempt 2 | 2161.98 | 7290 | 97.52 | 91.23 | 91.28 | 91.23 | |
| | Kempt 2 | 2310.30 | 7295 | 97.52 | 91.37 | 91.46 | 91.46 | |
| | Kempt 2 | 2558.45 | 7300 | 97.52 | 91.61 | 91.75 | 91.75 | |
| | Kempt 2 | 2762.25 | 7305 | 97.52 | 91.86 | 91.98 | 91.98 | |
| Kempt 2 | 3022.43 | 7310 | 97.52 | 92.08 | 92.11 | 92.08 | | |
| Kempt 2 | 3288.76 | 7315 | 97.52 | 92.15 | 92.16 | 92.15 | | |
| Kempt 2 | 3360.90 | 7317 | 97.52 | 92.13 | 92.20 | 92.13 | | |
| Kempt 2 | 3385.01 | 7320 | 97.52 | 91.68 | 92.58 | 92.58 | | |
| Kempt 2 | 3393.10 | | | Private crossing downstream of gauge | | | | |
| Kempt 2 | 3406.39 | 7325 | 97.52 | 92.83 | 93.17 | 93.17 | | |
| Kempt 2 | 3513.79 | 7328 | 97.52 | 93.23 | 93.25 | 93.23 | | |
| Kempt 2 | 3563.80 | 7330 | 97.52 | 93.24 | 93.27 | 93.24 | | |
| Kempt 2 | 3694.00 | 7333 | 97.52 | 93.28 | 93.37 | 93.37 | | |
| Kempt 2 | 3707.64 | 7335 | 96.8 | 93.06 | 93.51 | 93.51 | | |
| Kempt 2 | 3717.00 | | | Crossing at gauge 02LA006 | | | | |
| Kempt 2 | 3725.77 | 7340 | 96.8 | 94.12 | 94.22 | 94.22 | | |
| Kempt 2 | 3941.20 | 7345 | 96.8 | 94.28 | 94.29 | 94.28 | | |
| Kempt 2 | 4255.89 | 7350 | 96.8 | 94.35 | 94.39 | 94.35 | | |
| Kempt 2 | 4451.64 | 7355 | 96.8 | 94.42 | 94.47 | 94.42 | | |
| Kempt 2 | 4577.17 | 7360 | 96.8 | 94.48 | 94.49 | 94.48 | | |
| Kempt 2 | 4728.80 | 7362 | 96.8 | 94.50 | 94.52 | 94.50 | | |

Table 4

Cont'd

| River/Creek | Reach | River Station | Xsec ID # | Q (Total) m ³ /s | Computed WSEL m | EGL m | RFL m |
|-------------------------|---------|---------------|-----------|-----------------------------|--|--------|--------|
| | Kempt 2 | 4768.86 | 7365 | 96.8 | 94.51 | 94.54 | 94.51 |
| | Kempt 2 | 4888.73 | 7370 | 96.8 | 94.55 | 94.57 | 94.55 |
| | Kempt 2 | 4997.66 | 7375 | 96.8 | 94.50 | 94.62 | 94.62 |
| | Kempt 2 | 5015.10 | | | Dennison Road bridge | | |
| | Kempt 2 | 5029.58 | 7380 | 96.8 | 94.55 | 94.68 | 94.68 |
| | Kempt 2 | 5051.77 | 7382 | 96.8 | 94.67 | 94.69 | 94.69 |
| | Kempt 2 | 5099.76 | 7385 | 96.8 | 94.67 | 94.71 | 94.71 |
| | Kempt 2 | 5125.81 | | | CPR Bridge | | |
| | Kempt 2 | 5149.31 | 7390 | 96.8 | 94.66 | 94.75 | 94.75 |
| | Kempt 2 | 5184.47 | 7395 | 96.8 | 94.71 | 94.77 | 94.77 |
| | Kempt 2 | 5420.24 | 7400 | 96.8 | 94.82 | 94.84 | 94.82 |
| | Kempt 2 | 5837.86 | 7405 | 96.8 | 94.89 | 94.91 | 94.89 |
| | Kempt 2 | 6253.36 | 7410 | 96.8 | 94.97 | 94.99 | 94.97 |
| | Kempt 2 | 6725.08 | 7415 | 96.8 | 95.08 | 95.09 | 95.08 |
| | Kempt 2 | 7213.79 | 7420 | 96.8 | 95.19 | 95.20 | 95.19 |
| | Kempt 2 | 7541.68 | 7425 | 96.8 | 95.20 | 95.34 | 95.34 |
| | Kempt 2 | 7563.00 | | | Water Street Bridge | | |
| | Kempt 2 | 7586.40 | 7430 | 96.8 | 95.31 | 95.40 | 95.40 |
| | Kempt 2 | 7823.97 | 7435 | 96.8 | 95.54 | 95.59 | 95.54 |
| | Kempt 2 | 8183.20 | 7440 | 96.8 | 95.91 | 96.01 | 96.01 |
| | Kempt 2 | 8572.53 | 7445 | 96.8 | 96.35 | 96.55 | 96.55 |
| | Kempt 2 | 8598.00 | | | Maplewood Ave/ Bridge Street | | |
| | Kempt 2 | 8625.58 | 7450 | 96.8 | 96.51 | 96.76 | 96.76 |
| | Kempt 2 | 8650.00 | | | Oxford Mills dam | | |
| | Kempt 2 | 8678.34 | 7455 | 96.8 | 97.34 | 97.62 | 97.62 |
| | Kempt 2 | 8927.44 | 7457 | 94.74 | 97.72 | 97.73 | 97.72 |
| | Kempt 2 | 9129.69 | 7460 | 94.74 | 97.74 | 97.80 | 97.74 |
| | Kempt 2 | 9673.59 | 7465 | 94.74 | 98.33 | 98.37 | 98.33 |
| | Kempt 2 | 10226.68 | 7470 | 94.74 | 98.62 | 98.64 | 98.62 |
| | Kempt 2 | 11080.96 | 7475 | 94.74 | 98.83 | 98.84 | 98.83 |
| | Kempt 2 | 11711.59 | 7480 | 94.74 | 98.92 | 99.01 | 99.01 |
| | Kempt 2 | 11744.00 | | | Pattersons Corners Road Bridge | | |
| | Kempt 2 | 11778.28 | 7485 | 94.74 | 98.96 | 99.09 | 99.09 |
| | Kempt 2 | 12201.21 | 7490 | 94.74 | 99.21 | 99.21 | 99.21 |
| | Kempt 2 | 13100.02 | 7495 | 94.74 | 99.30 | 99.30 | 99.30 |
| | Kempt 2 | 13866.05 | 7500 | 94.74 | 99.36 | 99.37 | 99.36 |
| | Kempt 2 | 14349.18 | 7505 | 94.74 | 99.40 | 99.40 | 99.40 |
| | Kempt 2 | 15899.87 | 7510 | 94.74 | 99.47 | 99.47 | 99.47 |
| | Kempt 2 | 17227.17 | 7515 | 90.51 | 99.51 | 99.57 | 99.51 |
| | Kempt 2 | 17248.25 | | | Mussell Road bridge | | |
| | Kempt 2 | 17266.75 | 7520 | 90.51 | 99.53 | 99.60 | 99.53 |
| | Kempt 2 | 17498.61 | 7525 | 90.51 | 99.61 | 99.61 | 99.61 |
| | Kempt 2 | 17865.95 | 7530 | 90.51 | 99.59 | 99.64 | 99.64 |
| | Kempt 2 | 17917.50 | | | Oxford Station Rd/ County Rd 20 Bridge | | |
| | Kempt 2 | 17940.12 | 7535 | 90.51 | 99.62 | 99.67 | 99.67 |
| | Kempt 2 | 18231.00 | 7540 | 90.51 | 99.68 | 99.68 | 99.68 |
| Kemptville South Branch | Kempt 3 | 172.78 | 7543 | 56.08 | 99.68 | 99.68 | 99.68 |
| | Kempt 3 | 1289.63 | 7545 | 56.08 | 99.69 | 99.69 | 99.69 |
| | Kempt 3 | 3255.07 | 7550 | 56.08 | 99.70 | 99.70 | 99.70 |
| | Kempt 3 | 4957.20 | 7555 | 56.08 | 99.71 | 99.71 | 99.71 |
| | Kempt 3 | 5415.33 | 7560 | 56.08 | 99.69 | 99.73 | 99.73 |
| | Kempt 3 | 5452.56 | | | Limerick / McKenny's Road bridge | | |
| | Kempt 3 | 5482.56 | 7565 | 56.08 | 99.76 | 99.79 | 99.76 |
| | Kempt 3 | 5857.75 | 7570 | 56.08 | 99.81 | 99.81 | 99.81 |
| | Kempt 3 | 6516.72 | 7575 | 56.08 | 99.81 | 99.81 | 99.81 |
| | Kempt 3 | 7061.50 | 7580 | 56.08 | 99.81 | 99.81 | 99.81 |
| | Kempt 3 | 7771.07 | 7585 | 56.08 | 99.82 | 99.82 | 99.82 |
| | Kempt 3 | 8834.30 | 7590 | 56.08 | 99.84 | 99.84 | 99.84 |
| | Kempt 3 | 9177.29 | 7595 | 56.08 | 99.85 | 99.86 | 99.85 |
| | Kempt 3 | 9194.41 | 7596 | 56.08 | 99.82 | 99.88 | 99.88 |
| | Kempt 3 | 9210.00 | | | Garreton Rd / Ranch Rd 18 bridge | | |
| | Kempt 3 | 9217.97 | 7597 | 56.08 | 99.95 | 100.02 | 99.95 |
| | Kempt 3 | 9443.90 | 7600 | 56.08 | 100.05 | 100.08 | 100.05 |

Table 4

Cont'd

| River/Creek | Reach | River Station | Xsec ID # | Q (Total) m ³ /s | Computed WSEL m | EGL m | RFL m |
|-------------------------|----------|---------------|-----------|-----------------------------|-----------------|--------|--------|
| Kemptville South Branch | Kempt 3 | 9473.50 | | | | | |
| | Kempt 3 | 9489.13 | 7605 | 56.08 | 100.07 | 100.10 | 100.07 |
| | Kempt 3 | 9949.66 | 7610 | 56.08 | 100.15 | 100.15 | 100.15 |
| | Kempt 3 | 9973.83 | 7612 | 56.08 | 100.12 | 100.17 | 100.17 |
| | Kempt 3 | 9989.00 | | | | | |
| | Kempt 3 | 10005.57 | 7613 | 56.08 | 100.14 | 100.19 | 100.19 |
| | Kempt 3 | 10028.71 | 7615 | 56.08 | 100.18 | 100.20 | 100.20 |
| | Kempt 3 | 10652.65 | 7620 | 56.08 | 100.28 | 100.28 | 100.28 |
| | Kempt 3 | 11295.46 | 7625 | 50.17 | 100.32 | 100.32 | 100.32 |
| | Kempt 3 | 11326.76 | 7627 | 50.17 | 100.30 | 100.34 | 100.34 |
| | Kempt 3 | 11345.00 | | | | | |
| | Kempt 3 | 11358.33 | 7628 | 50.17 | 100.31 | 100.35 | 100.35 |
| | Kempt 3 | 11444.88 | 7630 | 50.17 | 100.36 | 100.36 | 100.36 |
| | Kempt 3 | 11809.40 | 7632 | 50.17 | 100.40 | 100.40 | 100.40 |
| | Kempt 3 | 12166.32 | 7635 | 50.17 | 100.44 | 100.44 | 100.44 |
| | Kempt 3 | 12182.25 | 7637 | 50.17 | 100.42 | 100.45 | 100.44 |
| | Kempt 3 | 12193.76 | | | | | |
| | Kempt 3 | 12207.76 | 7638 | 50.17 | 100.46 | 100.49 | 100.46 |
| | Kempt 3 | 12236.44 | 7640 | 50.17 | 100.49 | 100.50 | 100.49 |
| | Kempt 3 | 13214.62 | 7645 | 50.17 | 100.59 | 100.59 | 100.59 |
| | Kempt 3 | 13852.07 | 7650 | 50.17 | 100.63 | 100.63 | 100.63 |
| | Kempt 3 | 13878.00 | 7653 | 50.17 | 100.63 | 100.63 | 100.63 |
| | Kempt 3 | 13926.52 | 7655 | 50.17 | 100.63 | 100.63 | 100.63 |
| | Kempt 3 | 14140.66 | 7660 | 50.17 | 100.64 | 100.65 | 100.64 |
| | Kempt 3 | 14314.07 | 7665 | 50.17 | 100.67 | 100.68 | 100.67 |
| | Kempt 3 | 14337.20 | 7667 | 50.17 | 100.62 | 100.71 | 100.71 |
| | Kempt 3 | 14351.00 | | | | | |
| | Kempt 3 | 14362.40 | 7668 | 50.17 | 100.63 | 100.74 | 100.74 |
| | Kempt 3 | 14395.49 | 7670 | 50.17 | 100.75 | 100.76 | 100.75 |
| | Kempt 3 | 14710.27 | 7675 | 50.17 | 100.79 | 100.80 | 100.79 |
| | Kempt 3 | 14730.26 | 7677 | 50.17 | 100.79 | 100.80 | 100.79 |
| | Kempt 3 | 14751.00 | | | | | |
| | Kempt 3 | 14761.91 | 7678 | 50.17 | 101.12 | 101.12 | 101.12 |
| | Kempt 3 | 14792.90 | 7680 | 50.17 | 101.12 | 101.13 | 101.12 |
| | Kempt 3 | 15097.70 | 7682 | 50.17 | 101.14 | 101.14 | 101.14 |
| | Kempt 3 | 15548.53 | 7685 | 50.17 | 101.15 | 101.15 | 101.15 |
| | Kempt 3 | 15572.79 | 7686 | 50.17 | 101.14 | 101.17 | 101.15 |
| | Kempt 3 | 15584.39 | | | | | |
| | Kempt 3 | 15595.99 | 7687 | 50.17 | 101.37 | 101.40 | 101.37 |
| | Kempt 3 | 15623.83 | 7688 | 50.17 | 101.40 | 101.40 | 101.40 |
| | Kempt 3 | 15798.10 | 7690 | 50.17 | 101.40 | 101.41 | 101.40 |
| | Kempt 3 | 16295.06 | 7695 | 50.17 | 101.42 | 101.42 | 101.42 |
| | Kempt 3 | 17053.02 | 7700 | 50.17 | 101.44 | 101.45 | 101.44 |
| | Kempt 3 | 17365.56 | 7705 | 50.17 | 101.47 | 101.47 | 101.47 |
| | Kempt 3 | 18205.30 | 7710 | 50.17 | 101.53 | 101.53 | 101.53 |
| | Kempt 3 | 19473.85 | 7715 | 42.44 | 101.69 | 101.72 | 101.69 |
| | Kempt 3 | 20488.62 | 7720 | 42.44 | 102.04 | 102.06 | 102.04 |
| | Kempt 3 | 21203.41 | 7725 | 42.44 | 102.19 | 102.20 | 102.19 |
| | Kempt 3 | 21690.76 | 7730 | 42.44 | 102.32 | 102.37 | 102.32 |
| | Kempt 3 | 21722.50 | | | | | |
| Kempt 3 | 21739.22 | 7732 | 42.44 | 102.34 | 102.40 | 102.34 | |
| Kempt 3 | 22159.08 | 7735 | 42.44 | 102.49 | 102.50 | 102.49 | |
| Kempt 3 | 22940.43 | 7740 | 42.44 | 102.67 | 102.69 | 102.67 | |
| Kempt 3 | 23568.35 | 7745 | 42.44 | 103.26 | 103.31 | 103.26 | |
| Kempt 3 | 23894.25 | 7750 | 42.44 | 103.93 | 104.00 | 103.93 | |
| Kempt 3 | 23966.78 | 7753 | 42.44 | 103.93 | 104.24 | 104.24 | |
| Kempt 3 | 23982.00 | | | | | | |
| Kempt 3 | 24009.72 | 7755 | 42.44 | 104.35 | 104.59 | 104.59 | |
| Kempt 3 | 24248.22 | 7757 | 42.44 | 105.06 | 105.11 | 105.06 | |
| Kempt 3 | 24594.49 | 7760 | 42.44 | 105.47 | 105.56 | 105.56 | |
| Kempt 3 | 24929.05 | 7765 | 42.44 | 106.13 | 106.19 | 106.13 | |
| Kempt 3 | 25088.75 | 7766 | 42.44 | 106.43 | 106.47 | 106.43 | |
| Kempt 3 | 25254.75 | 7767 | 42.44 | 106.78 | 107.32 | 107.32 | |

Table 4

Cont'd

| River/Creek | Reach | River Station | Xsec ID # | Q (Total) m ³ /s | Computed WSEL m | EGL m | RFL m |
|-------------------------|-------------|---------------|-----------|--------------------------------|-----------------|--------|--------|
| | Kempt 3 | 25342.05 | 7768 | 42.44 | 107.88 | 108.22 | 108.22 |
| | Kempt 3 | 25432.27 | 7770 | 42.44 | 109.21 | 109.53 | 109.53 |
| | Kempt 3 | 25499.89 | 7772 | 42.44 | 109.66 | 110.25 | 110.25 |
| | Kempt 3 | 25510.30 | | Branch 6 Road bridge | | | |
| | Kempt 3 | 25526.79 | 7773 | 42.44 | 110.51 | 110.86 | 110.86 |
| | Kempt 3 | 25551.71 | 7775 | 42.44 | 110.89 | 110.90 | 110.89 |
| Kemptville North Branch | Kempt North | 84.91 | 7810 | 40.14 | 99.68 | 99.68 | 99.68 |
| | Kempt North | 298.75 | 7815 | 40.14 | 99.68 | 99.69 | 99.68 |
| | Kempt North | 466.24 | 7820 | 40.14 | 99.65 | 99.71 | 99.71 |
| | Kempt North | 493.12 | | County Road 18-20 connecting | | | |
| | Kempt North | 516.62 | 7825 | 40.14 | 99.68 | 99.75 | 99.75 |
| | Kempt North | 538.31 | 7828 | 40.14 | 99.71 | 99.76 | 99.76 |
| | Kempt North | 552.36 | | Old County Road 18 | | | |
| | Kempt North | 562.86 | 7830 | 40.14 | 99.68 | 99.80 | 99.80 |
| | Kempt North | 858.02 | 7835 | 40.14 | 99.84 | 99.84 | 99.84 |
| | Kempt North | 1939.37 | 7840 | 40.14 | 99.90 | 99.90 | 99.90 |
| | Kempt North | 2613.49 | 7845 | 40.14 | 99.91 | 99.91 | 99.91 |
| | Kempt North | 3602.98 | 7850 | 40.14 | 99.94 | 99.94 | 99.94 |
| | Kempt North | 3953.23 | 7851 | 40.14 | 100.00 | 100.01 | 100.00 |
| | Kempt North | 4196.73 | 7852 | 40.14 | 100.13 | 100.15 | 100.13 |
| | Kempt North | 4512.19 | 7854 | 40.14 | 100.66 | 100.69 | 100.66 |
| | Kempt North | 4749.93 | 7855 | 40.14 | 101.08 | 101.12 | 101.08 |
| | Kempt North | 4771.40 | 7856 | 40.14 | 101.04 | 101.17 | 101.17 |
| | Kempt North | 4791.85 | | Mill Street Bridge | | | |
| | Kempt North | 4807.85 | 7857 | 40.14 | 101.12 | 101.27 | 101.27 |
| | Kempt North | 4853.13 | 7860 | 40.14 | 101.29 | 101.30 | 101.29 |
| | Kempt North | 5132.19 | 7862 | 40.14 | 101.56 | 101.59 | 101.56 |
| | Kempt North | 5301.39 | 7864 | 40.14 | 102.08 | 102.16 | 102.08 |
| | Kempt North | 5628.64 | 7865 | 40.14 | 103.05 | 103.16 | 103.16 |
| | Kempt North | 6050.64 | 7866 | 40.14 | 103.96 | 104.00 | 103.96 |
| | Kempt North | 6231.60 | 7867 | 40.14 | 104.14 | 104.16 | 104.14 |
| | Kempt North | 6609.12 | 7870 | 40.14 | 104.26 | 104.27 | 104.26 |
| | Kempt North | 7197.02 | 7875 | 40.14 | 104.39 | 104.55 | 104.55 |
| | Kempt North | 7221.50 | | Bolton Road bridge | | | |
| | Kempt North | 7238.93 | 7878 | 40.14 | 104.68 | 104.78 | 104.78 |
| | Kempt North | 7268.27 | 7880 | 40.14 | 104.76 | 104.81 | 104.81 |
| | Kempt North | 7469.57 | 7885 | 40.14 | 104.95 | 104.97 | 104.95 |
| | Kempt North | 7750.33 | 7890 | 40.14 | 105.11 | 105.19 | 105.19 |
| | Kempt North | 7769.00 | | Land O'nod Road Bridge | | | |
| | Kempt North | 7792.07 | 7891 | 40.14 | 105.45 | 105.52 | 105.45 |
| | Kempt North | 7809.22 | 7892 | 40.14 | 105.52 | 105.52 | 105.52 |
| Kempt North | 8213.58 | 7894 | 40.14 | 105.55 | 105.56 | 105.55 | |
| Kempt North | 8608.00 | 7896 | 40.14 | 105.66 | 105.67 | 105.66 | |
| Barnes | Barnes 1 | 52.10 | 7910 | 12.11 | 88.07 | 88.07 | 88.07 |
| | Barnes 1 | 148.62 | 7912 | 12.11 | 88.07 | 88.08 | 88.07 |
| | Barnes 1 | 198.91 | 7914 | 12.11 | 88.07 | 88.08 | 88.07 |
| | Barnes 1 | 219.00 | | Parkinsons Street pipe culvert | | | |
| | Barnes 1 | 239.47 | 7916 | 12.11 | 89.08 | 89.09 | 89.08 |
| | Barnes 1 | 329.29 | 7918 | 12.11 | 89.09 | 89.09 | 89.09 |
| | Barnes 1 | 419.54 | 7920 | 12.11 | 89.08 | 89.09 | 89.09 |
| | Barnes 1 | 431.00 | | CPR Arch type culvert | | | |
| | Barnes 1 | 442.85 | 7922 | 12.11 | 89.49 | 89.53 | 89.49 |
| | Barnes 1 | 453.14 | 7923 | 12.11 | 89.53 | 89.54 | 89.53 |
| | Barnes 1 | 520.88 | 7924 | 12.11 | 89.53 | 89.54 | 89.53 |
| | Barnes 1 | 539.50 | | Van Buren street pipe culvert | | | |
| | Barnes 1 | 556.09 | 7926 | 12.11 | 89.74 | 89.76 | 89.74 |
| | Barnes 1 | 618.81 | 7927 | 12.11 | 89.76 | 89.76 | 89.76 |
| | Barnes 1 | 663.38 | 7928 | 12.11 | 89.76 | 89.77 | 89.76 |
| | Barnes 1 | 725.53 | 7929 | 12.11 | 89.77 | 89.80 | 89.77 |
| | Barnes 1 | 917.04 | 7930 | 12.11 | 90.06 | 90.08 | 90.06 |
| | Barnes 1 | 1174.88 | 7932 | 12.11 | 90.57 | 90.59 | 90.57 |
| | Barnes 1 | 1545.17 | 7934 | 12.11 | 91.00 | 91.02 | 91.00 |
| | Barnes 1 | 1837.87 | 7936 | 12.11 | 91.32 | 91.33 | 91.32 |

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| River/Creek | Reach | River Station | Xsec ID # | Q (Total) m ³ /s | Computed WSEL m | EGL m | RFL m |
|--------------|----------|---------------|-----------|-------------------------------|--------------------------|-------|-------|
| Barnes | Barnes 1 | 2041.77 | 7938 | 12.11 | 91.60 | 91.65 | 91.60 |
| | Barnes 1 | 2246.17 | 7940 | 12.11 | 91.98 | 92.05 | 91.98 |
| | Barnes 1 | 2547.12 | 7942 | 12.11 | 92.64 | 92.70 | 92.64 |
| | Barnes 1 | 2823.71 | 7944 | 12.11 | 93.50 | 93.58 | 93.50 |
| | Barnes 1 | 2863.53 | 7945 | 12.11 | 93.62 | 93.85 | 93.85 |
| | Barnes 1 | 2896.90 | 7946 | 12.11 | 94.01 | 94.33 | 94.33 |
| | Barnes 1 | 2912.64 | | | College Road box culvert | | |
| | Barnes 1 | 2922.64 | 7948 | 12.11 | 94.49 | 94.61 | 94.61 |
| | Barnes 1 | 3204.55 | 7950 | 12.11 | 95.25 | 95.30 | 95.25 |
| | Barnes 1 | 3490.86 | 7952 | 12.11 | 95.61 | 95.61 | 95.61 |
| | Barnes 1 | 3581.97 | 7954 | 12.11 | 95.62 | 95.73 | 95.73 |
| | Barnes 1 | 3592.50 | | | Bedell Road box culvert | | |
| | Barnes 1 | 3599.50 | 7955 | 12.11 | 95.91 | 95.98 | 95.91 |
| | Barnes 2 | 3601.00 | 7956 | 4.33 | 95.99 | 95.99 | 95.99 |
| | Barnes 2 | 3645.26 | 7956 | 4.33 | 95.99 | 95.99 | 95.99 |
| | Barnes 2 | 3790.78 | 7958 | 4.33 | 95.99 | 95.99 | 95.99 |
| Barnes 2 | 3898.20 | 7960 | 4.33 | 95.99 | 96.02 | 96.02 | |
| Barnes 2 | 3923.00 | | | Railway crossing pipe culvert | | | |
| Barnes 2 | 3948.16 | 7962 | 4.33 | 97.07 | 97.08 | 97.07 | |
| Barnes 2 | 4126.77 | 7964 | 4.33 | 97.08 | 97.08 | 97.08 | |
| Barnes Trib1 | BT 1 | 1.50 | 7980 | 7.65 | 95.92 | 95.98 | 95.92 |
| | BT 1 | 70.50 | 7980 | 7.65 | 96.11 | 96.14 | 96.11 |
| | BT 1 | 113.95 | 7981 | 7.65 | 96.16 | 96.20 | 96.16 |
| | BT 1 | 151.05 | 7982 | 7.65 | 96.17 | 96.25 | 96.25 |
| | BT 1 | 235.00 | | | HWY 416 box culvert | | |
| | BT 1 | 344.36 | 7984 | 7.65 | 96.50 | 96.50 | 96.50 |
| | BT 1 | 496.61 | 7986 | 7.65 | 96.51 | 96.51 | 96.51 |

Note:

*RFL - Regulatory Flood Levels
 EGL - Energy Grade Elevation
 WSEL - Water Surface Elevation*

Table 5a Computed Water Surface Elevations for Different Flood Events
Revision 1 – June 3, 2011

| River/ Creek | Reach | River Station | Xsec ID # | Flow (m ³ /s) and Computed WSEL (m) for Different Flood Events | | | | | | | | |
|-----------------|----------|------------------|--------------|---|------------------------|--------|-------|--------|-------|-------|-------|--|
| | | | | Q500 | WL500 | Q200 | WL200 | Q100 | WL100 | Q50 | WL50 | |
| Kemptville Main | Kempt 1 | 476.968 | 7110 | 119.39 | 87.86 | 110.79 | 87.83 | 104.12 | 87.72 | 96.91 | 87.51 | |
| | Kempt 1 | 672.185 | 7115 | 119.39 | 87.86 | 110.79 | 87.83 | 104.12 | 87.72 | 96.91 | 87.51 | |
| | Kempt 1 | 1032.579 | 7120 | 119.39 | 87.86 | 110.79 | 87.83 | 104.12 | 87.72 | 96.91 | 87.51 | |
| | Kempt 1 | 1275.842 | 7125 | 119.39 | 87.86 | 110.79 | 87.83 | 104.12 | 87.72 | 96.91 | 87.51 | |
| | Kempt 1 | 1598.217 | 7130 | 119.39 | 87.86 | 110.79 | 87.83 | 104.12 | 87.72 | 96.91 | 87.51 | |
| | Kempt 1 | 1869.127 | 7135 | 119.39 | 87.86 | 110.79 | 87.83 | 104.12 | 87.72 | 96.91 | 87.51 | |
| | Kempt 1 | 2051.026 | 7140 | 119.39 | 87.86 | 110.79 | 87.83 | 104.12 | 87.72 | 96.91 | 87.51 | |
| | Kempt 1 | 2307.401 | 7145 | 119.39 | 87.86 | 110.79 | 87.83 | 104.12 | 87.72 | 96.91 | 87.51 | |
| | Kempt 1 | 2586.765 | 7150 | 119.39 | 87.86 | 110.79 | 87.83 | 104.12 | 87.72 | 96.91 | 87.51 | |
| | Kempt 1 | 2868.382 | 7155 | 119.39 | 87.86 | 110.79 | 87.83 | 104.12 | 87.72 | 96.91 | 87.51 | |
| | Kempt 1 | 3165.018 | 7160 | 119.39 | 87.86 | 110.79 | 87.83 | 104.12 | 87.72 | 96.91 | 87.51 | |
| | Kempt 1 | 3429.113 | 7165 | 119.39 | 87.87 | 110.79 | 87.84 | 104.12 | 87.73 | 96.91 | 87.52 | |
| | Kempt 1 | 3749.500 | 7170 | 119.39 | 87.86 | 110.79 | 87.83 | 104.12 | 87.72 | 96.91 | 87.51 | |
| | Kempt 1 | 4073.860 | 7175 | 119.39 | 87.86 | 110.79 | 87.83 | 104.12 | 87.72 | 96.91 | 87.51 | |
| | Kempt 1 | 4101.000 | | | County Road 43 Bridge | | | | | | | |
| | Kempt 1 | 4128.330 | 7180 | 119.39 | 87.91 | 110.79 | 87.88 | 104.12 | 87.77 | 96.91 | 87.56 | |
| | Kempt 1 | 4307.660 | 7185 | 119.39 | 87.93 | 110.79 | 87.90 | 104.12 | 87.79 | 96.91 | 87.57 | |
| | Kempt 1 | 4509.990 | 7190 | 119.39 | 87.94 | 110.79 | 87.90 | 104.12 | 87.79 | 96.91 | 87.58 | |
| | Kempt 1 | 4675.750 | 7195 | 119.39 | 87.95 | 110.79 | 87.91 | 104.12 | 87.80 | 96.91 | 87.59 | |
| | Kempt 1 | 4795.790 | 7200 | 119.39 | 87.96 | 110.79 | 87.92 | 104.12 | 87.81 | 96.91 | 87.61 | |
| | Kempt 1 | 4932.600 | 7205 | 119.39 | 87.93 | 110.79 | 87.90 | 104.12 | 87.79 | 96.91 | 87.59 | |
| | Kempt 1 | 4950.000 | | | Bridge Street Bridge | | | | | | | |
| | Kempt 1 | 4967.430 | 7210 | 119.39 | 88.17 | 110.79 | 88.10 | 104.12 | 87.97 | 96.91 | 87.73 | |
| | Kempt 1 | 5128.750 | 7215 | 119.39 | 88.29 | 110.79 | 88.21 | 104.12 | 88.07 | 96.91 | 87.83 | |
| | Kempt 2 | 184.490 | 7220 | 111.83 | 88.28 | 103.77 | 88.20 | 97.52 | 88.06 | 90.77 | 87.83 | |
| | Kempt 2 | 313.000 | 7225 | 111.83 | 88.30 | 103.77 | 88.22 | 97.52 | 88.08 | 90.77 | 87.84 | |
| | Kempt 2 | 465.250 | 7230 | 111.83 | 88.30 | 103.77 | 88.22 | 97.52 | 88.08 | 90.77 | 87.85 | |
| | Kempt 2 | 511.870 | 7232 | 111.83 | 88.30 | 103.77 | 88.22 | 97.52 | 88.08 | 90.77 | 87.85 | |
| | Kempt 2 | 587.300 | 7235 | 111.83 | 88.22 | 103.77 | 88.14 | 97.52 | 88.01 | 90.77 | 87.77 | |
| | Kempt 2 | 595.500 | | | Prescott Street Bridge | | | | | | | |
| | Kempt 2 | 607.620 | 7240 | 111.83 | 88.21 | 103.77 | 88.13 | 97.52 | 88.00 | 90.77 | 87.77 | |
| | Kempt 2 | 794.910 | 7245 | 111.83 | 88.47 | 103.77 | 88.38 | 97.52 | 88.24 | 90.77 | 88.03 | |
| | Kempt 2 | 971.680 | 7250 | 111.83 | 88.54 | 103.77 | 88.45 | 97.52 | 88.32 | 90.77 | 88.13 | |
| | Kempt 2 | 1133.390 | 7255 | 111.83 | 88.58 | 103.77 | 88.49 | 97.52 | 88.36 | 90.77 | 88.17 | |
| | Kempt 2 | 1342.030 | 7260 | 111.83 | 88.81 | 103.77 | 88.72 | 97.52 | 88.63 | 90.77 | 88.52 | |
| | Kempt 2 | 1517.170 | 7265 | 111.83 | 88.97 | 103.77 | 88.88 | 97.52 | 88.80 | 90.77 | 88.70 | |
| | Kempt 2 | 1730.790 | 7270 | 111.83 | 89.06 | 103.77 | 88.97 | 97.52 | 88.89 | 90.77 | 88.79 | |
| | Kempt 2 | 1821.060 | 7275 | 111.83 | 89.13 | 103.77 | 89.05 | 97.52 | 88.98 | 90.77 | 88.90 | |
| | Kempt 2 | 1936.490 | 7280 | 111.83 | 89.48 | 103.77 | 89.40 | 97.52 | 89.35 | 90.77 | 89.28 | |
| | Kempt 2 | 1952.000 | | | Hurd Street Bridge | | | | | | | |
| | Kempt 2 | 1975.800 | 7285 | 111.83 | 91.20 | 103.77 | 91.05 | 97.52 | 90.94 | 90.77 | 90.81 | |
| | Kempt 2 | 2161.980 | 7290 | 111.83 | 91.49 | 103.77 | 91.35 | 97.52 | 91.23 | 90.77 | 91.10 | |
| | Kempt 2 | 2310.300 | 7295 | 111.83 | 91.60 | 103.77 | 91.47 | 97.52 | 91.37 | 90.77 | 91.24 | |
| | Kempt 2 | 2558.450 | 7300 | 111.83 | 91.95 | 103.77 | 91.79 | 97.52 | 91.61 | 90.77 | 91.47 | |
| | Kempt 2 | 2762.250 | 7305 | 111.83 | 92.20 | 103.77 | 92.06 | 97.52 | 91.86 | 90.77 | 91.71 | |
| | Kempt 2 | 3022.430 | 7310 | 111.83 | 92.39 | 103.77 | 92.25 | 97.52 | 92.08 | 90.77 | 91.95 | |
| | Kempt 2 | 3288.760 | 7315 | 111.83 | 92.44 | 103.77 | 92.31 | 97.52 | 92.15 | 90.77 | 92.02 | |
| | Kempt 2 | 3360.900 | 7317 | 111.83 | 92.43 | 103.77 | 92.30 | 97.52 | 92.13 | 90.77 | 91.99 | |
| Kempt 2 | 3385.010 | 7320 | 111.83 | 91.85 | 103.77 | 91.75 | 97.52 | 91.68 | 90.77 | 91.60 | | |
| Kempt 2 | 3393.100 | | | Private crossing downstream of gauge | | | | | | | | |
| Kempt 2 | 3406.390 | 7325 | 111.83 | 93.11 | 103.77 | 92.95 | 97.52 | 92.83 | 90.77 | 92.69 | | |
| Kempt 2 | 3513.790 | 7328 | 111.83 | 93.54 | 103.77 | 93.36 | 97.52 | 93.23 | 90.77 | 93.08 | | |
| Kempt 2 | 3563.800 | 7330 | 111.83 | 93.54 | 103.77 | 93.37 | 97.52 | 93.24 | 90.77 | 93.09 | | |
| Kempt 2 | 3694.000 | 7333 | 111.83 | 93.58 | 103.77 | 93.41 | 97.52 | 93.28 | 90.77 | 93.13 | | |
| Kempt 2 | 3707.640 | 7335 | 111.00 | 93.32 | 103.00 | 93.17 | 96.80 | 93.06 | 90.10 | 92.93 | | |
| Kempt 2 | 3717.000 | | | Crossing at gauge 02LA006 | | | | | | | | |
| Kempt 2 | 3725.770 | 7340 | 111.00 | 94.46 | 103.00 | 94.27 | 96.80 | 94.12 | 90.10 | 93.96 | | |
| Kempt 2 | 3941.200 | 7345 | 111.00 | 94.60 | 103.00 | 94.42 | 96.80 | 94.28 | 90.10 | 94.14 | | |

Table 5a

Cont'd

| River/ Creek | Reach | River Station | Xsec ID # | Flow (m ³ /s) and Computed WSEL (m) for Different Flood Events | | | | | | | | |
|-------------------------|-----------|------------------|--------------|---|-------------------------------------|--------|-------|-------|-------|-------|-------|--|
| | | | | Q500 | WL500 | Q200 | WL200 | Q100 | WL100 | Q50 | WL50 | |
| Kemptville Main | Kempt 2 | 4255.890 | 7350 | 111.00 | 94.64 | 103.00 | 94.47 | 96.80 | 94.35 | 90.10 | 94.23 | |
| | Kempt 2 | 4451.640 | 7355 | 111.00 | 94.70 | 103.00 | 94.54 | 96.80 | 94.42 | 90.10 | 94.30 | |
| | Kempt 2 | 4577.170 | 7360 | 111.00 | 94.76 | 103.00 | 94.60 | 96.80 | 94.48 | 90.10 | 94.36 | |
| | Kempt 2 | 4728.800 | 7362 | 111.00 | 94.78 | 103.00 | 94.61 | 96.80 | 94.50 | 90.10 | 94.38 | |
| | Kempt 2 | 4768.860 | 7365 | 111.00 | 94.79 | 103.00 | 94.62 | 96.80 | 94.51 | 90.10 | 94.39 | |
| | Kempt 2 | 4888.730 | 7370 | 111.00 | 94.82 | 103.00 | 94.66 | 96.80 | 94.55 | 90.10 | 94.43 | |
| | Kempt 2 | 4997.660 | 7375 | 111.00 | 94.76 | 103.00 | 94.61 | 96.80 | 94.50 | 90.10 | 94.38 | |
| | Kempt 2 | 5015.100 | | | Dennison Road bridge | | | | | | | |
| | Kempt 2 | 5029.580 | 7380 | 111.00 | 94.82 | 103.00 | 94.67 | 96.80 | 94.55 | 90.10 | 94.44 | |
| | Kempt 2 | 5051.770 | 7382 | 111.00 | 94.96 | 103.00 | 94.80 | 96.80 | 94.67 | 90.10 | 94.55 | |
| | Kempt 2 | 5099.760 | 7385 | 111.00 | 94.95 | 103.00 | 94.79 | 96.80 | 94.67 | 90.10 | 94.54 | |
| | Kempt 2 | 5125.810 | | | CPR Bridge | | | | | | | |
| | Kempt 2 | 5149.310 | 7390 | 111.00 | 94.94 | 103.00 | 94.78 | 96.80 | 94.66 | 90.10 | 94.54 | |
| | Kempt 2 | 5184.470 | 7395 | 111.00 | 95.00 | 103.00 | 94.84 | 96.80 | 94.71 | 90.10 | 94.58 | |
| | Kempt 2 | 5420.240 | 7400 | 111.00 | 95.10 | 103.00 | 94.94 | 96.80 | 94.82 | 90.10 | 94.70 | |
| | Kempt 2 | 5837.860 | 7405 | 111.00 | 95.16 | 103.00 | 95.01 | 96.80 | 94.89 | 90.10 | 94.77 | |
| | Kempt 2 | 6253.360 | 7410 | 111.00 | 95.23 | 103.00 | 95.09 | 96.80 | 94.97 | 90.10 | 94.86 | |
| | Kempt 2 | 6725.080 | 7415 | 111.00 | 95.32 | 103.00 | 95.19 | 96.80 | 95.08 | 90.10 | 94.96 | |
| | Kempt 2 | 7213.790 | 7420 | 111.00 | 95.40 | 103.00 | 95.29 | 96.80 | 95.19 | 90.10 | 95.08 | |
| | Kempt 2 | 7541.680 | 7425 | 111.00 | 95.39 | 103.00 | 95.29 | 96.80 | 95.20 | 90.10 | 95.11 | |
| | Kempt 2 | 7563.000 | | | Water Street Bridge | | | | | | | |
| | Kempt 2 | 7586.400 | 7430 | 111.00 | 95.50 | 103.00 | 95.40 | 96.80 | 95.31 | 90.10 | 95.21 | |
| | Kempt 2 | 7823.970 | 7435 | 111.00 | 95.73 | 103.00 | 95.62 | 96.80 | 95.54 | 90.10 | 95.43 | |
| | Kempt 2 | 8183.200 | 7440 | 111.00 | 96.03 | 103.00 | 95.96 | 96.80 | 95.91 | 90.10 | 95.82 | |
| | Kempt 2 | 8572.530 | 7445 | 111.00 | 96.49 | 103.00 | 96.41 | 96.80 | 96.35 | 90.10 | 96.27 | |
| | Kempt 2 | 8598.000 | | | Maplewood Ave/ Bridge Street bridge | | | | | | | |
| | Kempt 2 | 8625.580 | 7450 | 111.00 | 96.66 | 103.00 | 96.58 | 96.80 | 96.51 | 90.10 | 96.42 | |
| | Kempt 2 | 8650.000 | | | Oxford Mills dam | | | | | | | |
| | Kempt 2 | 8678.340 | 7455 | 111.00 | 97.53 | 103.00 | 97.42 | 96.80 | 97.34 | 90.10 | 97.24 | |
| | Kempt 2 | 8927.440 | 7457 | 108.64 | 97.94 | 100.81 | 97.82 | 94.74 | 97.72 | 88.18 | 97.61 | |
| | Kempt 2 | 9129.690 | 7460 | 108.64 | 97.95 | 100.81 | 97.83 | 94.74 | 97.74 | 88.18 | 97.64 | |
| | Kempt 2 | 9673.590 | 7465 | 108.64 | 98.48 | 100.81 | 98.40 | 94.74 | 98.33 | 88.18 | 98.25 | |
| | Kempt 2 | 10226.680 | 7470 | 108.64 | 98.77 | 100.81 | 98.69 | 94.74 | 98.62 | 88.18 | 98.54 | |
| | Kempt 2 | 11080.960 | 7475 | 108.64 | 98.97 | 100.81 | 98.89 | 94.74 | 98.83 | 88.18 | 98.75 | |
| | Kempt 2 | 11711.590 | 7480 | 108.64 | 99.07 | 100.81 | 98.99 | 94.74 | 98.92 | 88.18 | 98.85 | |
| | Kempt 2 | 11744.000 | | | Pattersons Corners Road Bridge | | | | | | | |
| | Kempt 2 | 11778.280 | 7485 | 108.64 | 99.11 | 100.81 | 99.02 | 94.74 | 98.96 | 88.18 | 98.88 | |
| | Kempt 2 | 12201.210 | 7490 | 108.64 | 99.38 | 100.81 | 99.28 | 94.74 | 99.21 | 88.18 | 99.11 | |
| | Kempt 2 | 13100.020 | 7495 | 108.64 | 99.46 | 100.81 | 99.37 | 94.74 | 99.30 | 88.18 | 99.22 | |
| | Kempt 2 | 13866.050 | 7500 | 108.64 | 99.51 | 100.81 | 99.43 | 94.74 | 99.36 | 88.18 | 99.28 | |
| Kempt 2 | 14349.180 | 7505 | 108.64 | 99.55 | 100.81 | 99.47 | 94.74 | 99.40 | 88.18 | 99.32 | | |
| Kempt 2 | 15899.870 | 7510 | 108.64 | 99.62 | 100.81 | 99.53 | 94.74 | 99.47 | 88.18 | 99.38 | | |
| Kempt 2 | 17227.170 | 7515 | 103.79 | 99.65 | 96.31 | 99.57 | 90.51 | 99.51 | 84.25 | 99.43 | | |
| Kempt 2 | 17248.250 | | | Mussell Road bridge | | | | | | | | |
| Kempt 2 | 17266.750 | 7520 | 103.79 | 99.68 | 96.31 | 99.59 | 90.51 | 99.53 | 84.25 | 99.45 | | |
| Kempt 2 | 17498.610 | 7525 | 103.79 | 99.77 | 96.31 | 99.68 | 90.51 | 99.61 | 84.25 | 99.53 | | |
| Kempt 2 | 17865.950 | 7530 | 103.79 | 99.74 | 96.31 | 99.65 | 90.51 | 99.59 | 84.25 | 99.51 | | |
| Kempt 2 | 17917.500 | | | Oxford Station Rd/ County Rd 20 Bridge | | | | | | | | |
| Kempt 2 | 17940.120 | 7535 | 103.79 | 99.77 | 96.31 | 99.68 | 90.51 | 99.62 | 84.25 | 99.53 | | |
| Kempt 2 | 18231.000 | 7540 | 103.79 | 99.85 | 96.31 | 99.75 | 90.51 | 99.68 | 84.25 | 99.59 | | |
| Kemptville South Branch | Kempt 3 | 172.778 | 7543 | 64.30 | 99.85 | 59.67 | 99.75 | 56.08 | 99.68 | 52.20 | 99.59 | |
| | Kempt 3 | 1289.626 | 7545 | 64.30 | 99.85 | 59.67 | 99.76 | 56.08 | 99.69 | 52.20 | 99.60 | |
| | Kempt 3 | 3255.069 | 7550 | 64.30 | 99.86 | 59.67 | 99.77 | 56.08 | 99.70 | 52.20 | 99.61 | |
| | Kempt 3 | 4957.200 | 7555 | 64.30 | 99.87 | 59.67 | 99.78 | 56.08 | 99.71 | 52.20 | 99.62 | |
| | Kempt 3 | 5415.325 | 7560 | 64.30 | 99.85 | 59.67 | 99.76 | 56.08 | 99.69 | 52.20 | 99.61 | |
| | Kempt 3 | 5452.560 | | | Limerick / McKenny's Road bridge | | | | | | | |
| | Kempt 3 | 5482.562 | 7565 | 64.30 | 99.94 | 59.67 | 99.83 | 56.08 | 99.76 | 52.20 | 99.66 | |
| | Kempt 3 | 5857.748 | 7570 | 64.30 | 99.99 | 59.67 | 99.89 | 56.08 | 99.81 | 52.20 | 99.71 | |
| | Kempt 3 | 6516.723 | 7575 | 64.30 | 100.00 | 59.67 | 99.89 | 56.08 | 99.81 | 52.20 | 99.71 | |
| | Kempt 3 | 7061.498 | 7580 | 64.30 | 100.00 | 59.67 | 99.89 | 56.08 | 99.81 | 52.20 | 99.72 | |
| | Kempt 3 | 7771.067 | 7585 | 64.30 | 100.01 | 59.67 | 99.90 | 56.08 | 99.82 | 52.20 | 99.73 | |
| | Kempt 3 | 8834.296 | 7590 | 64.30 | 100.02 | 59.67 | 99.91 | 56.08 | 99.84 | 52.20 | 99.74 | |

Table 5a

| River/ Creek | Reach | River Station | Xsec ID # | Flow (m ³ /s) and Computed WSEL (m) for Different Flood Events | | | | | | | |
|-------------------------|-------------|------------------|--------------|---|--------|--------------------------------|------------------------------|--------|--------|--------|--------|
| | | | | Q500 | WL500 | Q200 | WL200 | Q100 | WL100 | Q50 | WL50 |
| | Kempt 3 | 24929.050 | 7765 | 48.66 | 106.23 | 45.15 | 106.18 | 42.44 | 106.13 | 39.50 | 106.08 |
| | Kempt 3 | 25088.750 | 7766 | 48.66 | 106.51 | 45.15 | 106.47 | 42.44 | 106.43 | 39.50 | 106.38 |
| | Kempt 3 | 25254.750 | 7767 | 48.66 | 107.08 | 45.15 | 107.08 | 42.44 | 106.78 | 39.50 | 106.78 |
| | Kempt 3 | 25342.050 | 7768 | 48.66 | 108.13 | 45.15 | 108.05 | 42.44 | 107.88 | 39.50 | 107.78 |
| | Kempt 3 | 25432.270 | 7770 | 48.66 | 109.54 | 45.15 | 109.52 | 42.44 | 109.21 | 39.50 | 109.17 |
| | Kempt 3 | 25499.890 | 7772 | 48.66 | 109.86 | 45.15 | 109.85 | 42.44 | 109.66 | 39.50 | 109.63 |
| | Kempt 3 | 25510.300 | | | | | Branch 6 Road bridge | | | | |
| | Kempt 3 | 25526.790 | 7773 | 48.66 | 111.18 | 45.15 | 111.16 | 42.44 | 110.51 | 39.50 | 110.40 |
| | Kempt 3 | 25551.710 | 7775 | 48.66 | 111.19 | 45.15 | 111.18 | 42.44 | 110.89 | 39.50 | 110.77 |
| Kemptville North Branch | Kempt North | 84.9 | 7810 | 46.03 | 99.85 | 42.71 | 99.75 | 40.14 | 99.68 | 37.36 | 99.59 |
| | Kempt North | 298.8 | 7815 | 46.03 | 99.85 | 42.71 | 99.76 | 40.14 | 99.68 | 37.36 | 99.60 |
| | Kempt North | 466.2 | 7820 | 46.03 | 99.81 | 42.71 | 99.72 | 40.14 | 99.65 | 37.36 | 99.56 |
| | Kempt North | 493.1 | | | | | County Road 18-20 connecting | | | | |
| | Kempt North | 516.6 | 7825 | 46.03 | 99.84 | 42.71 | 99.75 | 40.14 | 99.68 | 37.36 | 99.59 |
| | Kempt North | 538.3 | 7828 | 46.03 | 99.87 | 42.71 | 99.78 | 40.14 | 99.71 | 37.36 | 99.62 |
| | Kempt North | 552.4 | | | | | Old County Road 18 | | | | |
| | Kempt North | 562.9 | 7830 | 46.03 | 99.85 | 42.71 | 99.75 | 40.14 | 99.68 | 37.36 | 99.60 |
| | Kempt North | 858.0 | 7835 | 46.03 | 100.01 | 42.71 | 99.91 | 40.14 | 99.84 | 37.36 | 99.75 |
| | Kempt North | 1939.4 | 7840 | 46.03 | 100.05 | 42.71 | 99.96 | 40.14 | 99.90 | 37.36 | 99.81 |
| | Kempt North | 2613.5 | 7845 | 46.03 | 100.07 | 42.71 | 99.98 | 40.14 | 99.91 | 37.36 | 99.83 |
| | Kempt North | 3603.0 | 7850 | 46.03 | 100.08 | 42.71 | 100.00 | 40.14 | 99.94 | 37.36 | 99.86 |
| | Kempt North | 3953.2 | 7851 | 46.03 | 100.12 | 42.71 | 100.05 | 40.14 | 100.00 | 37.36 | 99.94 |
| | Kempt North | 4196.7 | 7852 | 46.03 | 100.22 | 42.71 | 100.16 | 40.14 | 100.13 | 37.36 | 100.09 |
| | Kempt North | 4512.2 | 7854 | 46.03 | 100.70 | 42.71 | 100.68 | 40.14 | 100.66 | 37.36 | 100.61 |
| | Kempt North | 4749.9 | 7855 | 46.03 | 101.15 | 42.71 | 101.11 | 40.14 | 101.08 | 37.36 | 101.05 |
| | Kempt North | 4771.4 | 7856 | 46.03 | 101.09 | 42.71 | 101.07 | 40.14 | 101.04 | 37.36 | 101.02 |
| | Kempt North | 4791.9 | | | | | Mill Street Bridge | | | | |
| | Kempt North | 4807.9 | 7857 | 46.03 | 101.20 | 42.71 | 101.16 | 40.14 | 101.12 | 37.36 | 101.09 |
| | Kempt North | 4853.1 | 7860 | 46.03 | 101.40 | 42.71 | 101.34 | 40.14 | 101.29 | 37.36 | 101.24 |
| | Kempt North | 5132.2 | 7862 | 46.03 | 101.62 | 42.71 | 101.58 | 40.14 | 101.56 | 37.36 | 101.54 |
| | Kempt North | 5301.4 | 7864 | 46.03 | 102.12 | 42.71 | 102.10 | 40.14 | 102.08 | 37.36 | 102.06 |
| | Kempt North | 5628.6 | 7865 | 46.03 | 103.16 | 42.71 | 103.09 | 40.14 | 103.05 | 37.36 | 103.00 |
| | Kempt North | 6050.6 | 7866 | 46.03 | 104.07 | 42.71 | 104.01 | 40.14 | 103.96 | 37.36 | 103.91 |
| | Kempt North | 6231.6 | 7867 | 46.03 | 104.24 | 42.71 | 104.18 | 40.14 | 104.14 | 37.36 | 104.10 |
| | Kempt North | 6609.1 | 7870 | 46.03 | 104.36 | 42.71 | 104.30 | 40.14 | 104.26 | 37.36 | 104.21 |
| | Kempt North | 7197.0 | 7875 | 46.03 | 104.48 | 42.71 | 104.43 | 40.14 | 104.39 | 37.36 | 104.34 |
| | Kempt North | 7221.5 | | | | | Bolton Road bridge | | | | |
| | Kempt North | 7238.9 | 7878 | 46.03 | 104.89 | 42.71 | 104.77 | 40.14 | 104.68 | 37.36 | 104.59 |
| | Kempt North | 7268.3 | 7880 | 46.03 | 104.98 | 42.71 | 104.86 | 40.14 | 104.76 | 37.36 | 104.66 |
| Kempt North | 7469.6 | 7885 | 46.03 | 105.16 | 42.71 | 105.08 | 40.14 | 104.95 | 37.36 | 104.87 | |
| Kempt North | 7750.3 | 7890 | 46.03 | 105.28 | 42.71 | 105.25 | 40.14 | 105.11 | 37.36 | 105.04 | |
| Kempt North | 7769.0 | | | | | Land O'nod Road Bridge | | | | | |
| Kempt North | 7792.1 | 7891 | 46.03 | 105.67 | 42.71 | 105.60 | 40.14 | 105.45 | 37.36 | 105.36 | |
| Kempt North | 7809.2 | 7892 | 46.03 | 105.74 | 42.71 | 105.67 | 40.14 | 105.52 | 37.36 | 105.42 | |
| Kempt North | 8213.6 | 7894 | 46.03 | 105.76 | 42.71 | 105.69 | 40.14 | 105.55 | 37.36 | 105.46 | |
| Kempt North | 8608.0 | 7896 | 46.03 | 105.85 | 42.71 | 105.78 | 40.14 | 105.66 | 37.36 | 105.57 | |
| Barnes | Barnes 1 | 52.103 | 7910 | 13.88 | 88.30 | 12.88 | 88.21 | 12.11 | 88.07 | 11.27 | 87.84 |
| | Barnes 1 | 148.616 | 7912 | 13.88 | 88.29 | 12.88 | 88.21 | 12.11 | 88.07 | 11.27 | 87.84 |
| | Barnes 1 | 198.913 | 7914 | 13.88 | 88.29 | 12.88 | 88.21 | 12.11 | 88.07 | 11.27 | 87.83 |
| | Barnes 1 | 219.000 | | | | Parkinsons Street pipe culvert | | | | | |
| | Barnes 1 | 239.473 | 7916 | 13.88 | 89.52 | 12.88 | 89.35 | 12.11 | 89.08 | 11.27 | 88.70 |
| | Barnes 1 | 329.289 | 7918 | 13.88 | 89.53 | 12.88 | 89.36 | 12.11 | 89.09 | 11.27 | 88.72 |
| | Barnes 1 | 419.543 | 7920 | 13.88 | 89.52 | 12.88 | 89.35 | 12.11 | 89.08 | 11.27 | 88.71 |
| | Barnes 1 | 431.000 | | | | CPR Arch type culvert | | | | | |
| | Barnes 1 | 442.853 | 7922 | 13.88 | 89.92 | 12.88 | 89.73 | 12.11 | 89.49 | 11.27 | 89.24 |
| | Barnes 1 | 453.145 | 7923 | 13.88 | 89.95 | 12.88 | 89.77 | 12.11 | 89.53 | 11.27 | 89.28 |
| | Barnes 1 | 520.875 | 7924 | 13.88 | 89.95 | 12.88 | 89.76 | 12.11 | 89.53 | 11.27 | 89.28 |
| | Barnes 1 | 539.500 | | | | Van Buren street pipe culvert | | | | | |
| | Barnes 1 | 556.093 | 7926 | 13.88 | 90.17 | 12.88 | 89.97 | 12.11 | 89.74 | 11.27 | 89.50 |
| | Barnes 1 | 618.813 | 7927 | 13.88 | 90.19 | 12.88 | 89.99 | 12.11 | 89.76 | 11.27 | 89.53 |
| | Barnes 1 | 663.384 | 7928 | 13.88 | 90.19 | 12.88 | 89.99 | 12.11 | 89.76 | 11.27 | 89.53 |
| | Barnes 1 | 725.531 | 7929 | 13.88 | 90.19 | 12.88 | 89.99 | 12.11 | 89.77 | 11.27 | 89.54 |

Table 5a

Cont'd

| River/ Creek | Reach | River Station | Xsec ID # | Flow (m ³ /s) and Computed WSEL (m) for Different Flood Events | | | | | | | | |
|-----------------|----------|------------------|--------------|---|-------------------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | | Q500 | WL500 | Q200 | WL200 | Q100 | WL100 | Q50 | WL50 | |
| | Barnes 1 | 917.037 | 7930 | 13.88 | 90.29 | 12.88 | 90.16 | 12.11 | 90.06 | 11.27 | 89.98 | |
| | Barnes 1 | 1174.879 | 7932 | 13.88 | 90.54 | 12.88 | 90.55 | 12.11 | 90.57 | 11.27 | 90.54 | |
| | Barnes 1 | 1545.167 | 7934 | 13.88 | 91.05 | 12.88 | 91.02 | 12.11 | 91.00 | 11.27 | 90.97 | |
| | Barnes 1 | 1837.870 | 7936 | 13.88 | 91.36 | 12.88 | 91.34 | 12.11 | 91.32 | 11.27 | 91.29 | |
| Barnes | Barnes 1 | 2041.768 | 7938 | 13.88 | 91.65 | 12.88 | 91.62 | 12.11 | 91.60 | 11.27 | 91.57 | |
| | Barnes 1 | 2246.165 | 7940 | 13.88 | 92.08 | 12.88 | 92.03 | 12.11 | 91.98 | 11.27 | 91.94 | |
| | Barnes 1 | 2547.123 | 7942 | 13.88 | 92.76 | 12.88 | 92.69 | 12.11 | 92.64 | 11.27 | 92.58 | |
| | Barnes 1 | 2823.712 | 7944 | 13.88 | 93.58 | 12.88 | 93.53 | 12.11 | 93.50 | 11.27 | 93.45 | |
| | Barnes 1 | 2863.525 | 7945 | 13.88 | 93.70 | 12.88 | 93.66 | 12.11 | 93.62 | 11.27 | 93.58 | |
| | Barnes 1 | 2896.902 | 7946 | 13.88 | 94.08 | 12.88 | 94.04 | 12.11 | 94.01 | 11.27 | 93.98 | |
| | Barnes 1 | 2912.642 | | | College Road box culvert | | | | | | | |
| | Barnes 1 | 2922.642 | 7948 | 13.88 | 94.61 | 12.88 | 94.54 | 12.11 | 94.49 | 11.27 | 94.43 | |
| | Barnes 1 | 3204.554 | 7950 | 13.88 | 95.31 | 12.88 | 95.28 | 12.11 | 95.25 | 11.27 | 95.22 | |
| | Barnes 1 | 3490.855 | 7952 | 13.88 | 95.65 | 12.88 | 95.63 | 12.11 | 95.61 | 11.27 | 95.58 | |
| | Barnes 1 | 3581.973 | 7954 | 13.88 | 95.65 | 12.88 | 95.64 | 12.11 | 95.62 | 11.27 | 95.60 | |
| | Barnes 1 | 3592.500 | | | Bedell Road box culvert | | | | | | | |
| | Barnes 1 | 3599.501 | 7955 | 13.88 | 96.03 | 12.88 | 95.96 | 12.11 | 95.91 | 11.27 | 95.85 | |
| | Barnes 2 | Barnes 2 | 3601.000 | 7956 copy | 4.97 | 96.12 | 4.61 | 96.05 | 4.33 | 95.99 | 4.03 | 95.92 |
| | | Barnes 2 | 3645.256 | 7956 | 4.97 | 96.12 | 4.61 | 96.05 | 4.33 | 95.99 | 4.03 | 95.92 |
| | | Barnes 2 | 3790.775 | 7958 | 4.97 | 96.13 | 4.61 | 96.05 | 4.33 | 95.99 | 4.03 | 95.93 |
| Barnes 2 | | 3898.204 | 7960 | 4.97 | 96.12 | 4.61 | 96.04 | 4.33 | 95.99 | 4.03 | 95.92 | |
| Barnes 2 | | 3923.000 | | | Railway crossing pipe culvert | | | | | | | |
| Barnes 2 | | 3948.159 | 7962 | 4.97 | 97.25 | 4.61 | 97.15 | 4.33 | 97.07 | 4.03 | 96.98 | |
| Barnes 2 | | 4126.765 | 7964 | 4.97 | 97.27 | 4.61 | 97.16 | 4.33 | 97.08 | 4.03 | 96.99 | |
| Barnes Trib1 | BT 1 | 1.500 | 7980 copy | 8.78 | 96.07 | 8.14 | 95.99 | 7.65 | 95.92 | 7.12 | 95.85 | |
| | BT 1 | 70.504 | 7980 | 8.78 | 96.21 | 8.14 | 96.15 | 7.65 | 96.11 | 7.12 | 96.06 | |
| | BT 1 | 113.949 | 7981 | 8.78 | 96.26 | 8.14 | 96.20 | 7.65 | 96.16 | 7.12 | 96.12 | |
| | BT 1 | 151.055 | 7982 | 8.78 | 96.26 | 8.14 | 96.20 | 7.65 | 96.17 | 7.12 | 96.13 | |
| | BT 1 | 235.000 | | | HWY 416 box culvert | | | | | | | |
| | BT 1 | 344.359 | 7984 | 8.78 | 96.50 | 8.14 | 96.50 | 7.65 | 96.50 | 7.12 | 96.50 | |
| | BT 1 | 496.611 | 7986 | 8.78 | 96.51 | 8.14 | 96.51 | 7.65 | 96.51 | 7.12 | 96.51 | |

Table 5b Computed Water Surface Elevations for Different Flood Events
Revision 1 – June 3, 2011

| River/ Creek | Reach | River Station | Xsec ID | Flow (m ³ /s) and Computed WSEL (m) for Different Flood Events | | | | | | | | |
|-------------------|-----------|------------------|---------|---|------------------------|-------|-------|-------|-------|-------|-------|--|
| | | | # | Q20 | WL20 | Q10 | WL10 | Q5 | WL5 | Q2 | WL2 | |
| Kemptonville Main | Kempton 1 | 476.968 | 7110 | 86.80 | 87.23 | 78.52 | 87.00 | 69.16 | 86.74 | 53.24 | 86.35 | |
| | Kempton 1 | 672.185 | 7115 | 86.80 | 87.23 | 78.52 | 87.00 | 69.16 | 86.74 | 53.24 | 86.35 | |
| | Kempton 1 | 1032.579 | 7120 | 86.80 | 87.23 | 78.52 | 87.00 | 69.16 | 86.74 | 53.24 | 86.35 | |
| | Kempton 1 | 1275.842 | 7125 | 86.80 | 87.23 | 78.52 | 87.00 | 69.16 | 86.74 | 53.24 | 86.35 | |
| | Kempton 1 | 1598.217 | 7130 | 86.80 | 87.23 | 78.52 | 87.00 | 69.16 | 86.74 | 53.24 | 86.35 | |
| | Kempton 1 | 1869.127 | 7135 | 86.80 | 87.23 | 78.52 | 87.00 | 69.16 | 86.74 | 53.24 | 86.35 | |
| | Kempton 1 | 2051.026 | 7140 | 86.80 | 87.23 | 78.52 | 87.00 | 69.16 | 86.74 | 53.24 | 86.35 | |
| | Kempton 1 | 2307.401 | 7145 | 86.80 | 87.23 | 78.52 | 87.00 | 69.16 | 86.74 | 53.24 | 86.36 | |
| | Kempton 1 | 2586.765 | 7150 | 86.80 | 87.23 | 78.52 | 87.00 | 69.16 | 86.75 | 53.24 | 86.36 | |
| | Kempton 1 | 2868.382 | 7155 | 86.80 | 87.23 | 78.52 | 87.01 | 69.16 | 86.75 | 53.24 | 86.36 | |
| | Kempton 1 | 3165.018 | 7160 | 86.80 | 87.24 | 78.52 | 87.01 | 69.16 | 86.75 | 53.24 | 86.36 | |
| | Kempton 1 | 3429.113 | 7165 | 86.80 | 87.24 | 78.52 | 87.01 | 69.16 | 86.75 | 53.24 | 86.36 | |
| | Kempton 1 | 3749.500 | 7170 | 86.80 | 87.24 | 78.52 | 87.01 | 69.16 | 86.75 | 53.24 | 86.36 | |
| | Kempton 1 | 4073.860 | 7175 | 86.80 | 87.24 | 78.52 | 87.01 | 69.16 | 86.75 | 53.24 | 86.36 | |
| | Kempton 1 | 4101.000 | | | County Road 43 Bridge | | | | | | | |
| | Kempton 1 | 4128.330 | 7180 | 86.80 | 87.28 | 78.52 | 87.05 | 69.16 | 86.79 | 53.24 | 86.40 | |
| | Kempton 1 | 4307.660 | 7185 | 86.80 | 87.30 | 78.52 | 87.07 | 69.16 | 86.81 | 53.24 | 86.41 | |
| | Kempton 1 | 4509.990 | 7190 | 86.80 | 87.31 | 78.52 | 87.08 | 69.16 | 86.82 | 53.24 | 86.43 | |
| | Kempton 1 | 4675.750 | 7195 | 86.80 | 87.32 | 78.52 | 87.10 | 69.16 | 86.84 | 53.24 | 86.45 | |
| | Kempton 1 | 4795.790 | 7200 | 86.80 | 87.34 | 78.52 | 87.11 | 69.16 | 86.85 | 53.24 | 86.46 | |
| | Kempton 1 | 4932.600 | 7205 | 86.80 | 87.32 | 78.52 | 87.10 | 69.16 | 86.84 | 53.24 | 86.45 | |
| | Kempton 1 | 4950.000 | | | Bridge Street Bridge | | | | | | | |
| | Kempton 1 | 4967.430 | 7210 | 86.80 | 87.42 | 78.52 | 87.11 | 69.16 | 86.85 | 53.24 | 87.02 | |
| | Kempton 1 | 5128.750 | 7215 | 86.80 | 87.52 | 78.52 | 87.21 | 69.16 | 86.95 | 53.24 | 87.08 | |
| | Kempton 2 | 184.490 | 7220 | 81.30 | 87.52 | 73.55 | 87.21 | 64.78 | 86.95 | 49.87 | 87.08 | |
| | Kempton 2 | 313.000 | 7225 | 81.30 | 87.53 | 73.55 | 87.23 | 64.78 | 86.97 | 49.87 | 87.09 | |
| | Kempton 2 | 465.250 | 7230 | 81.30 | 87.54 | 73.55 | 87.24 | 64.78 | 86.99 | 49.87 | 87.09 | |
| | Kempton 2 | 511.870 | 7232 | 81.30 | 87.55 | 73.55 | 87.25 | 64.78 | 86.99 | 49.87 | 87.10 | |
| | Kempton 2 | 587.300 | 7235 | 81.30 | 87.47 | 73.55 | 87.17 | 64.78 | 86.91 | 49.87 | 87.06 | |
| | Kempton 2 | 595.500 | | | Prescott Street Bridge | | | | | | | |
| | Kempton 2 | 607.620 | 7240 | 81.30 | 87.46 | 73.55 | 87.17 | 64.78 | 86.92 | 49.87 | 87.06 | |
| | Kempton 2 | 794.910 | 7245 | 81.30 | 87.72 | 73.55 | 87.45 | 64.78 | 87.24 | 49.87 | 87.22 | |
| | Kempton 2 | 971.680 | 7250 | 81.30 | 87.84 | 73.55 | 87.61 | 64.78 | 87.42 | 49.87 | 87.33 | |
| | Kempton 2 | 1133.390 | 7255 | 81.30 | 87.88 | 73.55 | 87.67 | 64.78 | 87.50 | 49.87 | 87.40 | |
| | Kempton 2 | 1342.030 | 7260 | 81.30 | 88.27 | 73.55 | 88.14 | 64.78 | 88.03 | 49.87 | 87.85 | |
| | Kempton 2 | 1517.170 | 7265 | 81.30 | 88.46 | 73.55 | 88.33 | 64.78 | 88.21 | 49.87 | 88.00 | |
| | Kempton 2 | 1730.790 | 7270 | 81.30 | 88.57 | 73.55 | 88.44 | 64.78 | 88.31 | 49.87 | 88.08 | |
| | Kempton 2 | 1821.060 | 7275 | 81.30 | 88.73 | 73.55 | 88.64 | 64.78 | 88.54 | 49.87 | 88.31 | |
| | Kempton 2 | 1936.490 | 7280 | 81.30 | 89.19 | 73.55 | 89.11 | 64.78 | 89.02 | 49.87 | 88.85 | |
| | Kempton 2 | 1952.000 | | | Hurd Street Bridge | | | | | | | |
| | Kempton 2 | 1975.800 | 7285 | 81.30 | 90.63 | 73.55 | 90.47 | 64.78 | 90.29 | 49.87 | 89.96 | |
| | Kempton 2 | 2161.980 | 7290 | 81.30 | 90.86 | 73.55 | 90.70 | 64.78 | 90.51 | 49.87 | 90.17 | |
| | Kempton 2 | 2310.300 | 7295 | 81.30 | 90.96 | 73.55 | 90.80 | 64.78 | 90.62 | 49.87 | 90.30 | |
| | Kempton 2 | 2558.450 | 7300 | 81.30 | 91.22 | 73.55 | 91.07 | 64.78 | 90.89 | 49.87 | 90.58 | |
| | Kempton 2 | 2762.250 | 7305 | 81.30 | 91.50 | 73.55 | 91.36 | 64.78 | 91.19 | 49.87 | 90.86 | |
| | Kempton 2 | 3022.430 | 7310 | 81.30 | 91.76 | 73.55 | 91.62 | 64.78 | 91.45 | 49.87 | 91.12 | |
| | Kempton 2 | 3288.760 | 7315 | 81.30 | 91.83 | 73.55 | 91.70 | 64.78 | 91.53 | 49.87 | 91.20 | |
| | Kempton 2 | 3360.900 | 7317 | 81.30 | 91.80 | 73.55 | 91.67 | 64.78 | 91.49 | 49.87 | 91.17 | |
| Kempton 2 | 3385.010 | 7320 | 81.30 | 91.47 | 73.55 | 91.37 | 64.78 | 91.25 | 49.87 | 91.03 | | |
| Kempton 2 | 3393.100 | | | Private crossing downstream of gauge | | | | | | | | |
| Kempton 2 | 3406.390 | 7325 | 81.30 | 92.50 | 73.55 | 92.33 | 64.78 | 92.14 | 49.87 | 91.67 | | |
| Kempton 2 | 3513.790 | 7328 | 81.30 | 92.87 | 73.55 | 92.70 | 64.78 | 92.45 | 49.87 | 91.98 | | |
| Kempton 2 | 3563.800 | 7330 | 81.30 | 92.89 | 73.55 | 92.71 | 64.78 | 92.47 | 49.87 | 92.01 | | |
| Kempton 2 | 3694.000 | 7333 | 81.30 | 92.89 | 73.55 | 92.72 | 64.78 | 92.47 | 49.87 | 92.02 | | |
| Kempton 2 | 3707.640 | 7335 | 80.70 | 92.70 | 73.00 | 92.54 | 64.30 | 92.28 | 49.50 | 91.88 | | |
| Kempton 2 | 3717.000 | | | Crossing at gauge 02LA006 | | | | | | | | |
| Kempton 2 | 3725.770 | 7340 | 80.70 | 93.71 | 73.00 | 93.51 | 64.30 | 93.27 | 49.50 | 92.85 | | |

Table 5b

Cont'd

| River/ Creek | Reach | River Station | Xsec ID # | Flow (m ³ /s) and Computed WSEL (m) for Different Flood Events | | | | | | | | |
|-------------------------|-----------|------------------|--------------|---|-------------------------------------|-------|-------|-------|-------|-------|-------|--|
| | | | | Q20 | WL20 | Q10 | WL10 | Q5 | WL5 | Q2 | WL2 | |
| Kemptville Main | Kempt 2 | 3941.200 | 7345 | 80.70 | 93.92 | 73.00 | 93.74 | 64.30 | 93.53 | 49.50 | 93.05 | |
| | Kempt 2 | 4255.890 | 7350 | 80.70 | 94.03 | 73.00 | 93.87 | 64.30 | 93.70 | 49.50 | 93.24 | |
| | Kempt 2 | 4451.640 | 7355 | 80.70 | 94.09 | 73.00 | 93.93 | 64.30 | 93.76 | 49.50 | 93.32 | |
| | Kempt 2 | 4577.170 | 7360 | 80.70 | 94.15 | 73.00 | 93.99 | 64.30 | 93.82 | 49.50 | 93.38 | |
| | Kempt 2 | 4728.800 | 7362 | 80.70 | 94.18 | 73.00 | 94.02 | 64.30 | 93.86 | 49.50 | 93.47 | |
| | Kempt 2 | 4768.860 | 7365 | 80.70 | 94.19 | 73.00 | 94.03 | 64.30 | 93.87 | 49.50 | 93.51 | |
| | Kempt 2 | 4888.730 | 7370 | 80.70 | 94.24 | 73.00 | 94.09 | 64.30 | 93.93 | 49.50 | 93.58 | |
| | Kempt 2 | 4997.660 | 7375 | 80.70 | 94.19 | 73.00 | 94.05 | 64.30 | 93.89 | 49.50 | 93.55 | |
| | Kempt 2 | 5015.100 | | | Dennison Road bridge | | | | | | | |
| | Kempt 2 | 5029.580 | 7380 | 80.70 | 94.25 | 73.00 | 94.10 | 64.30 | 93.94 | 49.50 | 93.60 | |
| | Kempt 2 | 5051.770 | 7382 | 80.70 | 94.35 | 73.00 | 94.19 | 64.30 | 94.02 | 49.50 | 93.65 | |
| | Kempt 2 | 5099.760 | 7385 | 80.70 | 94.34 | 73.00 | 94.19 | 64.30 | 94.02 | 49.50 | 93.66 | |
| | Kempt 2 | 5125.810 | | | CPR Bridge | | | | | | | |
| | Kempt 2 | 5149.310 | 7390 | 80.70 | 94.34 | 73.00 | 94.18 | 64.30 | 94.02 | 49.50 | 93.66 | |
| | Kempt 2 | 5184.470 | 7395 | 80.70 | 94.38 | 73.00 | 94.22 | 64.30 | 94.05 | 49.50 | 93.69 | |
| | Kempt 2 | 5420.240 | 7400 | 80.70 | 94.50 | 73.00 | 94.35 | 64.30 | 94.18 | 49.50 | 93.83 | |
| | Kempt 2 | 5837.860 | 7405 | 80.70 | 94.59 | 73.00 | 94.43 | 64.30 | 94.26 | 49.50 | 93.91 | |
| | Kempt 2 | 6253.360 | 7410 | 80.70 | 94.68 | 73.00 | 94.52 | 64.30 | 94.36 | 49.50 | 94.00 | |
| | Kempt 2 | 6725.080 | 7415 | 80.70 | 94.79 | 73.00 | 94.64 | 64.30 | 94.47 | 49.50 | 94.12 | |
| | Kempt 2 | 7213.790 | 7420 | 80.70 | 94.93 | 73.00 | 94.81 | 64.30 | 94.66 | 49.50 | 94.29 | |
| | Kempt 2 | 7541.680 | 7425 | 80.70 | 94.99 | 73.00 | 94.89 | 64.30 | 94.76 | 49.50 | 94.38 | |
| | Kempt 2 | 7563.000 | | | Water Street Bridge | | | | | | | |
| | Kempt 2 | 7586.400 | 7430 | 80.70 | 95.09 | 73.00 | 94.98 | 64.30 | 94.85 | 49.50 | 94.48 | |
| | Kempt 2 | 7823.970 | 7435 | 80.70 | 95.29 | 73.00 | 95.17 | 64.30 | 95.00 | 49.50 | 94.65 | |
| | Kempt 2 | 8183.200 | 7440 | 80.70 | 95.69 | 73.00 | 95.57 | 64.30 | 95.36 | 49.50 | 95.04 | |
| | Kempt 2 | 8572.530 | 7445 | 80.70 | 96.15 | 73.00 | 96.05 | 64.30 | 95.91 | 49.50 | 95.70 | |
| | Kempt 2 | 8598.000 | | | Maplewood Ave/ Bridge Street bridge | | | | | | | |
| | Kempt 2 | 8625.580 | 7450 | 80.70 | 96.30 | 73.00 | 96.19 | 64.30 | 96.06 | 49.50 | 95.83 | |
| | Kempt 2 | 8650.000 | | | Oxford Mills dam | | | | | | | |
| | Kempt 2 | 8678.340 | 7455 | 80.70 | 97.10 | 73.00 | 96.99 | 64.30 | 96.85 | 49.50 | 96.60 | |
| | Kempt 2 | 8927.440 | 7457 | 78.98 | 97.46 | 71.45 | 97.33 | 62.93 | 97.17 | 48.45 | 96.89 | |
| | Kempt 2 | 9129.690 | 7460 | 78.98 | 97.48 | 71.45 | 97.35 | 62.93 | 97.20 | 48.45 | 96.93 | |
| | Kempt 2 | 9673.590 | 7465 | 78.98 | 98.09 | 71.45 | 97.97 | 62.93 | 97.83 | 48.45 | 97.55 | |
| | Kempt 2 | 10226.680 | 7470 | 78.98 | 98.33 | 71.45 | 98.22 | 62.93 | 98.08 | 48.45 | 97.80 | |
| | Kempt 2 | 11080.960 | 7475 | 78.98 | 98.53 | 71.45 | 98.41 | 62.93 | 98.27 | 48.45 | 97.99 | |
| | Kempt 2 | 11711.590 | 7480 | 78.98 | 98.65 | 71.45 | 98.54 | 62.93 | 98.40 | 48.45 | 98.12 | |
| | Kempt 2 | 11744.000 | | | Pattersons Corners Road Bridge | | | | | | | |
| | Kempt 2 | 11778.280 | 7485 | 78.98 | 98.68 | 71.45 | 98.57 | 62.93 | 98.43 | 48.45 | 98.15 | |
| Kempt 2 | 12201.210 | 7490 | 78.98 | 98.91 | 71.45 | 98.78 | 62.93 | 98.64 | 48.45 | 98.36 | | |
| Kempt 2 | 13100.020 | 7495 | 78.98 | 99.03 | 71.45 | 98.92 | 62.93 | 98.79 | 48.45 | 98.55 | | |
| Kempt 2 | 13866.050 | 7500 | 78.98 | 99.12 | 71.45 | 99.02 | 62.93 | 98.88 | 48.45 | 98.65 | | |
| Kempt 2 | 14349.180 | 7505 | 78.98 | 99.15 | 71.45 | 99.05 | 62.93 | 98.91 | 48.45 | 98.68 | | |
| Kempt 2 | 15899.870 | 7510 | 78.98 | 99.22 | 71.45 | 99.12 | 62.93 | 98.97 | 48.45 | 98.73 | | |
| Kempt 2 | 17227.170 | 7515 | 75.46 | 99.28 | 68.26 | 99.18 | 60.12 | 99.03 | 46.28 | 98.79 | | |
| Kempt 2 | 17248.250 | | | Mussell Road bridge | | | | | | | | |
| Kempt 2 | 17266.750 | 7520 | 75.46 | 99.30 | 68.26 | 99.20 | 60.12 | 99.04 | 46.28 | 98.80 | | |
| Kempt 2 | 17498.610 | 7525 | 75.46 | 99.37 | 68.26 | 99.26 | 60.12 | 99.10 | 46.28 | 98.84 | | |
| Kempt 2 | 17865.950 | 7530 | 75.46 | 99.35 | 68.26 | 99.25 | 60.12 | 99.09 | 46.28 | 98.84 | | |
| Kempt 2 | 17917.500 | | | Oxford Station Rd/ County Rd 20 Bridge | | | | | | | | |
| Kempt 2 | 17940.120 | 7535 | 75.46 | 99.38 | 68.26 | 99.27 | 60.12 | 99.11 | 46.28 | 98.86 | | |
| Kempt 2 | 18231.000 | 7540 | 75.46 | 99.43 | 68.26 | 99.32 | 60.12 | 99.15 | 46.28 | 98.89 | | |
| Kemptville South Branch | Kempt 3 | 172.778 | 7543 | 46.75 | 99.43 | 42.29 | 99.32 | 37.25 | 99.16 | 28.68 | 98.90 | |
| | Kempt 3 | 1289.626 | 7545 | 46.75 | 99.44 | 42.29 | 99.33 | 37.25 | 99.17 | 28.68 | 98.91 | |
| | Kempt 3 | 3255.069 | 7550 | 46.75 | 99.45 | 42.29 | 99.35 | 37.25 | 99.19 | 28.68 | 98.93 | |
| | Kempt 3 | 4957.200 | 7555 | 46.75 | 99.46 | 42.29 | 99.35 | 37.25 | 99.20 | 28.68 | 98.95 | |
| | Kempt 3 | 5415.325 | 7560 | 46.75 | 99.45 | 42.29 | 99.35 | 37.25 | 99.20 | 28.68 | 98.95 | |
| | Kempt 3 | 5452.560 | | | Limerick / McKenny's Road bridge | | | | | | | |
| | Kempt 3 | 5482.562 | 7565 | 46.75 | 99.47 | 42.29 | 99.36 | 37.25 | 99.21 | 28.68 | 98.96 | |
| | Kempt 3 | 5857.748 | 7570 | 46.75 | 99.51 | 42.29 | 99.40 | 37.25 | 99.25 | 28.68 | 98.99 | |
| | Kempt 3 | 6516.723 | 7575 | 46.75 | 99.52 | 42.29 | 99.41 | 37.25 | 99.25 | 28.68 | 99.00 | |

Table 5b

Cont'd

| River/ Creek | Reach | River Station | Xsec ID | Flow (m ³ /s) and Computed WSEL (m) for Different Flood Events | | | | | | | | |
|-------------------------|-----------|------------------|---------|---|----------------------------------|--------|--------|--------|--------|--------|--------|--|
| | | | # | Q20 | WL20 | Q10 | WL10 | Q5 | WL5 | Q2 | WL2 | |
| | Kempt 3 | 7061.498 | 7580 | 46.75 | 99.52 | 42.29 | 99.41 | 37.25 | 99.26 | 28.68 | 99.01 | |
| | Kempt 3 | 7771.067 | 7585 | 46.75 | 99.53 | 42.29 | 99.42 | 37.25 | 99.27 | 28.68 | 99.02 | |
| Kemptville South Branch | Kempt 3 | 8834.296 | 7590 | 46.75 | 99.55 | 42.29 | 99.45 | 37.25 | 99.30 | 28.68 | 99.07 | |
| | Kempt 3 | 9177.291 | 7595 | 46.75 | 99.58 | 42.29 | 99.47 | 37.25 | 99.33 | 28.68 | 99.11 | |
| | Kempt 3 | 9194.408 | 7596 | 46.75 | 99.54 | 42.29 | 99.44 | 37.25 | 99.31 | 28.68 | 99.09 | |
| | Kempt 3 | 9210.000 | | | Garreton Rd / Ranch Rd 18 bridge | | | | | | | |
| | Kempt 3 | 9217.973 | 7597 | 46.75 | 99.62 | 42.29 | 99.49 | 37.25 | 99.31 | 28.68 | 99.09 | |
| | Kempt 3 | 9443.899 | 7600 | 46.75 | 99.72 | 42.29 | 99.60 | 37.25 | 99.41 | 28.68 | 99.18 | |
| | Kempt 3 | 9473.500 | | | Private crossing | | | | | | | |
| | Kempt 3 | 9489.127 | 7605 | 46.75 | 99.74 | 42.29 | 99.62 | 37.25 | 99.43 | 28.68 | 99.20 | |
| | Kempt 3 | 9949.659 | 7610 | 46.75 | 99.83 | 42.29 | 99.70 | 37.25 | 99.53 | 28.68 | 99.28 | |
| | Kempt 3 | 9973.831 | 7612 | 46.75 | 99.81 | 42.29 | 99.68 | 37.25 | 99.51 | 28.68 | 99.27 | |
| | Kempt 3 | 9989.000 | | | Private crossing | | | | | | | |
| | Kempt 3 | 10005.570 | 7613 | 46.75 | 99.83 | 42.29 | 99.71 | 37.25 | 99.53 | 28.68 | 99.29 | |
| | Kempt 3 | 10028.710 | 7615 | 46.75 | 99.86 | 42.29 | 99.73 | 37.25 | 99.56 | 28.68 | 99.31 | |
| | Kempt 3 | 10652.650 | 7620 | 46.75 | 100.00 | 42.29 | 99.88 | 37.25 | 99.73 | 28.68 | 99.51 | |
| | Kempt 3 | 11295.460 | 7625 | 41.82 | 100.05 | 37.83 | 99.94 | 33.33 | 99.80 | 25.65 | 99.59 | |
| | Kempt 3 | 11326.760 | 7627 | 41.82 | 100.03 | 37.83 | 99.92 | 33.33 | 99.78 | 25.65 | 99.58 | |
| | Kempt 3 | 11345.000 | | | Diamond Road bridge | | | | | | | |
| | Kempt 3 | 11358.330 | 7628 | 41.82 | 100.05 | 37.83 | 99.93 | 33.33 | 99.79 | 25.65 | 99.59 | |
| | Kempt 3 | 11444.880 | 7630 | 41.82 | 100.09 | 37.83 | 99.97 | 33.33 | 99.83 | 25.65 | 99.62 | |
| | Kempt 3 | 11809.400 | 7632 | 41.82 | 100.15 | 37.83 | 100.04 | 33.33 | 99.91 | 25.65 | 99.70 | |
| | Kempt 3 | 12166.320 | 7635 | 41.82 | 100.20 | 37.83 | 100.09 | 33.33 | 99.96 | 25.65 | 99.75 | |
| | Kempt 3 | 12182.250 | 7637 | 41.82 | 100.19 | 37.83 | 100.08 | 33.33 | 99.95 | 25.65 | 99.75 | |
| | Kempt 3 | 12193.760 | | | Private crossing | | | | | | | |
| | Kempt 3 | 12207.760 | 7638 | 41.82 | 100.22 | 37.83 | 100.15 | 33.33 | 100.06 | 25.65 | 99.85 | |
| | Kempt 3 | 12236.440 | 7640 | 41.82 | 100.25 | 37.83 | 100.18 | 33.33 | 100.08 | 25.65 | 99.87 | |
| | Kempt 3 | 13214.620 | 7645 | 41.82 | 100.37 | 37.83 | 100.31 | 33.33 | 100.22 | 25.65 | 100.02 | |
| | Kempt 3 | 13852.070 | 7650 | 41.82 | 100.43 | 37.83 | 100.37 | 33.33 | 100.30 | 25.65 | 100.13 | |
| | Kempt 3 | 13878.000 | 7653 | 41.82 | 100.43 | 37.83 | 100.37 | 33.33 | 100.30 | 25.65 | 100.13 | |
| | Kempt 3 | 13926.520 | 7655 | 41.82 | 100.44 | 37.83 | 100.37 | 33.33 | 100.30 | 25.65 | 100.14 | |
| | Kempt 3 | 14140.660 | 7660 | 41.82 | 100.45 | 37.83 | 100.39 | 33.33 | 100.32 | 25.65 | 100.17 | |
| | Kempt 3 | 14314.070 | 7665 | 41.82 | 100.48 | 37.83 | 100.43 | 33.33 | 100.36 | 25.65 | 100.21 | |
| | Kempt 3 | 14337.200 | 7667 | 41.82 | 100.44 | 37.83 | 100.39 | 33.33 | 100.33 | 25.65 | 100.19 | |
| | Kempt 3 | 14351.000 | | | Kyle Road Bridge | | | | | | | |
| | Kempt 3 | 14362.400 | 7668 | 41.82 | 100.46 | 37.83 | 100.40 | 33.33 | 100.34 | 25.65 | 100.20 | |
| | Kempt 3 | 14395.490 | 7670 | 41.82 | 100.55 | 37.83 | 100.49 | 33.33 | 100.41 | 25.65 | 100.25 | |
| | Kempt 3 | 14710.270 | 7675 | 41.82 | 100.61 | 37.83 | 100.54 | 33.33 | 100.47 | 25.65 | 100.31 | |
| | Kempt 3 | 14730.260 | 7677 | 41.82 | 100.61 | 37.83 | 100.54 | 33.33 | 100.47 | 25.65 | 100.31 | |
| | Kempt 3 | 14751.000 | | | Private crossing | | | | | | | |
| | Kempt 3 | 14761.910 | 7678 | 41.82 | 101.00 | 37.83 | 100.66 | 33.33 | 100.56 | 25.65 | 100.38 | |
| | Kempt 3 | 14792.900 | 7680 | 41.82 | 101.00 | 37.83 | 100.67 | 33.33 | 100.57 | 25.65 | 100.38 | |
| | Kempt 3 | 15097.700 | 7682 | 41.82 | 101.02 | 37.83 | 100.69 | 33.33 | 100.59 | 25.65 | 100.40 | |
| | Kempt 3 | 15548.530 | 7685 | 41.82 | 101.03 | 37.83 | 100.71 | 33.33 | 100.61 | 25.65 | 100.43 | |
| | Kempt 3 | 15572.790 | 7686 | 41.82 | 101.02 | 37.83 | 100.69 | 33.33 | 100.60 | 25.65 | 100.41 | |
| Kempt 3 | 15584.390 | | | Private Crossing - grouped pipe culvert | | | | | | | | |
| Kempt 3 | 15595.990 | 7687 | 41.82 | 101.29 | 37.83 | 101.22 | 33.33 | 101.17 | 25.65 | 100.87 | | |
| Kempt 3 | 15623.830 | 7688 | 41.82 | 101.32 | 37.83 | 101.25 | 33.33 | 101.19 | 25.65 | 100.89 | | |
| Kempt 3 | 15798.100 | 7690 | 41.82 | 101.32 | 37.83 | 101.25 | 33.33 | 101.19 | 25.65 | 100.90 | | |
| Kempt 3 | 16295.060 | 7695 | 41.82 | 101.33 | 37.83 | 101.27 | 33.33 | 101.20 | 25.65 | 100.92 | | |
| Kempt 3 | 17053.020 | 7700 | 41.82 | 101.36 | 37.83 | 101.29 | 33.33 | 101.23 | 25.65 | 100.96 | | |
| Kempt 3 | 17365.560 | 7705 | 41.82 | 101.38 | 37.83 | 101.31 | 33.33 | 101.25 | 25.65 | 100.99 | | |
| Kempt 3 | 18205.300 | 7710 | 41.82 | 101.43 | 37.83 | 101.37 | 33.33 | 101.31 | 25.65 | 101.11 | | |
| Kempt 3 | 19473.850 | 7715 | 35.38 | 101.60 | 32.00 | 101.54 | 28.19 | 101.49 | 21.70 | 101.43 | | |
| Kempt 3 | 20488.620 | 7720 | 35.38 | 101.94 | 32.00 | 101.88 | 28.19 | 101.82 | 21.70 | 101.71 | | |
| Kempt 3 | 21203.410 | 7725 | 35.38 | 102.09 | 32.00 | 102.03 | 28.19 | 101.97 | 21.70 | 101.86 | | |
| Kempt 3 | 21690.760 | 7730 | 35.38 | 102.22 | 32.00 | 102.17 | 28.19 | 102.10 | 21.70 | 101.99 | | |
| Kempt 3 | 21722.500 | | | Kliitbo Road Bridge | | | | | | | | |
| Kempt 3 | 21739.220 | 7732 | 35.38 | 102.23 | 32.00 | 102.18 | 28.19 | 102.11 | 21.70 | 102.00 | | |
| Kempt 3 | 22159.080 | 7735 | 35.38 | 102.37 | 32.00 | 102.31 | 28.19 | 102.23 | 21.70 | 102.10 | | |

Table 5b

Cont'd

| River/ Creek | Reach | River Station | Xsec ID # | Flow (m³/s) and Computed WSEL (m) for Different Flood Events | | | | | | | | |
|-------------------------|-------------|------------------|--------------|--|--------|--------|--------------------------------|----------------------|--------|--------|--------|--|
| | | | | Q20 | WL20 | Q10 | WL10 | Q5 | WL5 | Q2 | WL2 | |
| | Kempt 3 | 22940.430 | 7740 | 35.38 | 102.56 | 32.00 | 102.51 | 28.19 | 102.45 | 21.70 | 102.33 | |
| | Kempt 3 | 23568.350 | 7745 | 35.38 | 103.20 | 32.00 | 103.17 | 28.19 | 103.12 | 21.70 | 102.97 | |
| | Kempt 3 | 23894.250 | 7750 | 35.38 | 103.83 | 32.00 | 103.78 | 28.19 | 103.71 | 21.70 | 103.53 | |
| Kemptville South Branch | Kempt 3 | 23966.780 | 7753 | 35.38 | 103.85 | 32.00 | 103.80 | 28.19 | 103.74 | 21.70 | 103.58 | |
| | Kempt 3 | 23982.000 | | | | | County Road 15 Bridge | | | | | |
| | Kempt 3 | 24009.720 | 7755 | 35.38 | 104.17 | 32.00 | 104.08 | 28.19 | 103.98 | 21.70 | 103.80 | |
| | Kempt 3 | 24248.220 | 7757 | 35.38 | 104.85 | 32.00 | 104.67 | 28.19 | 104.53 | 21.70 | 104.28 | |
| | Kempt 3 | 24594.490 | 7760 | 35.38 | 105.26 | 32.00 | 105.04 | 28.19 | 104.90 | 21.70 | 104.62 | |
| | Kempt 3 | 24929.050 | 7765 | 35.38 | 106.01 | 32.00 | 105.93 | 28.19 | 105.84 | 21.70 | 105.70 | |
| | Kempt 3 | 25088.750 | 7766 | 35.38 | 106.32 | 32.00 | 106.27 | 28.19 | 106.20 | 21.70 | 106.09 | |
| | Kempt 3 | 25254.750 | 7767 | 35.38 | 106.76 | 32.00 | 106.77 | 28.19 | 106.77 | 21.70 | 106.72 | |
| | Kempt 3 | 25342.050 | 7768 | 35.38 | 107.63 | 32.00 | 107.52 | 28.19 | 107.42 | 21.70 | 107.26 | |
| | Kempt 3 | 25432.270 | 7770 | 35.38 | 109.10 | 32.00 | 109.05 | 28.19 | 108.98 | 21.70 | 108.85 | |
| | Kempt 3 | 25499.890 | 7772 | 35.38 | 109.58 | 32.00 | 109.53 | 28.19 | 109.48 | 21.70 | 109.35 | |
| | Kempt 3 | 25510.300 | | | | | | Branch 6 Road bridge | | | | |
| | Kempt 3 | 25526.790 | 7773 | 35.38 | 110.24 | 32.00 | 110.06 | 28.19 | 109.91 | 21.70 | 109.64 | |
| Kempt 3 | 25551.710 | 7775 | 35.38 | 110.59 | 32.00 | 110.41 | 28.19 | 110.24 | 21.70 | 109.93 | | |
| Kemptville North Branch | Kempt North | 84.910 | 7810 | 33.46 | 99.43 | 30.27 | 99.32 | 26.66 | 99.15 | 20.53 | 98.89 | |
| | Kempt North | 298.750 | 7815 | 33.46 | 99.44 | 30.27 | 99.33 | 26.66 | 99.16 | 20.53 | 98.90 | |
| | Kempt North | 466.240 | 7820 | 33.46 | 99.40 | 30.27 | 99.30 | 26.66 | 99.14 | 20.53 | 98.89 | |
| | Kempt North | 493.120 | | | | | County Road 18-20 connecting | | | | | |
| | Kempt North | 516.620 | 7825 | 33.46 | 99.43 | 30.27 | 99.32 | 26.66 | 99.16 | 20.53 | 98.91 | |
| | Kempt North | 538.310 | 7828 | 33.46 | 99.46 | 30.27 | 99.35 | 26.66 | 99.19 | 20.53 | 98.93 | |
| | Kempt North | 552.360 | | | | | Old County Road 18 | | | | | |
| | Kempt North | 562.860 | 7830 | 33.46 | 99.44 | 30.27 | 99.33 | 26.66 | 99.18 | 20.53 | 98.93 | |
| | Kempt North | 858.020 | 7835 | 33.46 | 99.58 | 30.27 | 99.46 | 26.66 | 99.30 | 20.53 | 99.05 | |
| | Kempt North | 1939.370 | 7840 | 33.46 | 99.66 | 30.27 | 99.54 | 26.66 | 99.40 | 20.53 | 99.20 | |
| | Kempt North | 2613.490 | 7845 | 33.46 | 99.69 | 30.27 | 99.58 | 26.66 | 99.46 | 20.53 | 99.32 | |
| | Kempt North | 3602.980 | 7850 | 33.46 | 99.74 | 30.27 | 99.67 | 26.66 | 99.57 | 20.53 | 99.50 | |
| | Kempt North | 3953.230 | 7851 | 33.46 | 99.87 | 30.27 | 99.83 | 26.66 | 99.80 | 20.53 | 99.75 | |
| | Kempt North | 4196.730 | 7852 | 33.46 | 100.05 | 30.27 | 100.02 | 26.66 | 99.97 | 20.53 | 99.90 | |
| | Kempt North | 4512.190 | 7854 | 33.46 | 100.56 | 30.27 | 100.51 | 26.66 | 100.42 | 20.53 | 100.30 | |
| | Kempt North | 4749.930 | 7855 | 33.46 | 100.92 | 30.27 | 100.87 | 26.66 | 100.79 | 20.53 | 100.63 | |
| | Kempt North | 4771.400 | 7856 | 33.46 | 100.90 | 30.27 | 100.86 | 26.66 | 100.78 | 20.53 | 100.63 | |
| | Kempt North | 4791.850 | | | | | Mill Street Bridge | | | | | |
| | Kempt North | 4807.850 | 7857 | 33.46 | 100.97 | 30.27 | 100.91 | 26.66 | 100.83 | 20.53 | 100.67 | |
| | Kempt North | 4853.130 | 7860 | 33.46 | 101.12 | 30.27 | 101.04 | 26.66 | 100.94 | 20.53 | 100.75 | |
| | Kempt North | 5132.190 | 7862 | 33.46 | 101.52 | 30.27 | 101.45 | 26.66 | 101.35 | 20.53 | 101.25 | |
| | Kempt North | 5301.390 | 7864 | 33.46 | 102.02 | 30.27 | 101.87 | 26.66 | 101.85 | 20.53 | 101.70 | |
| | Kempt North | 5628.640 | 7865 | 33.46 | 102.94 | 30.27 | 102.86 | 26.66 | 102.76 | 20.53 | 102.61 | |
| | Kempt North | 6050.640 | 7866 | 33.46 | 103.83 | 30.27 | 103.76 | 26.66 | 103.68 | 20.53 | 103.45 | |
| | Kempt North | 6231.600 | 7867 | 33.46 | 104.03 | 30.27 | 103.97 | 26.66 | 103.90 | 20.53 | 103.71 | |
| | Kempt North | 6609.120 | 7870 | 33.46 | 104.14 | 30.27 | 104.08 | 26.66 | 104.01 | 20.53 | 103.83 | |
| | Kempt North | 7197.020 | 7875 | 33.46 | 104.28 | 30.27 | 104.22 | 26.66 | 104.14 | 20.53 | 103.97 | |
| | Kempt North | 7221.500 | | | | | Bolton Road bridge | | | | | |
| | Kempt North | 7238.930 | 7878 | 33.46 | 104.53 | 30.27 | 104.49 | 26.66 | 104.21 | 20.53 | 104.03 | |
| | Kempt North | 7268.270 | 7880 | 33.46 | 104.60 | 30.27 | 104.54 | 26.66 | 104.27 | 20.53 | 104.07 | |
| | Kempt North | 7469.570 | 7885 | 33.46 | 104.80 | 30.27 | 104.73 | 26.66 | 104.52 | 20.53 | 104.31 | |
| | Kempt North | 7750.330 | 7890 | 33.46 | 104.97 | 30.27 | 104.90 | 26.66 | 104.73 | 20.53 | 104.53 | |
| | Kempt North | 7769.000 | | | | | Land Onod Road Bridge | | | | | |
| Kempt North | 7792.070 | 7891 | 33.46 | 105.21 | 30.27 | 105.10 | 26.66 | 104.87 | 20.53 | 104.60 | | |
| Kempt North | 7809.220 | 7892 | 33.46 | 105.27 | 30.27 | 105.15 | 26.66 | 104.93 | 20.53 | 104.64 | | |
| Kempt North | 8213.580 | 7894 | 33.46 | 105.33 | 30.27 | 105.23 | 26.66 | 105.08 | 20.53 | 104.91 | | |
| Kempt North | 8608.000 | 7896 | 33.46 | 105.45 | 30.27 | 105.35 | 26.66 | 105.21 | 20.53 | 105.01 | | |
| Barnes | Barnes 1 | 52.103 | 7910 | 10.09 | 87.53 | 9.13 | 87.23 | 8.04 | 86.97 | 6.19 | 87.08 | |
| | Barnes 1 | 148.616 | 7912 | 10.09 | 87.53 | 9.13 | 87.23 | 8.04 | 86.96 | 6.19 | 87.08 | |
| | Barnes 1 | 198.913 | 7914 | 10.09 | 87.52 | 9.13 | 87.22 | 8.04 | 86.96 | 6.19 | 87.08 | |
| | Barnes 1 | 219.000 | | | | | Parkinsons Street pipe culvert | | | | | |
| | Barnes 1 | 239.473 | 7916 | 10.09 | 88.22 | 9.13 | 87.92 | 8.04 | 87.82 | 6.19 | 87.45 | |
| | Barnes 1 | 329.289 | 7918 | 10.09 | 88.24 | 9.13 | 87.94 | 8.04 | 87.84 | 6.19 | 87.46 | |

Table 5b

Cont'd

| River/ Creek | Reach | River Station | Xsec ID | Flow (m ³ /s) and Computed WSEL (m) for Different Flood Events | | | | | | | |
|-----------------|----------|------------------|-----------|---|-------------------------------|-------------------------------|-------|-------|-------|-------|-------|
| | | | # | Q20 | WL20 | Q10 | WL10 | Q5 | WL5 | Q2 | WL2 |
| | Barnes 1 | 419.543 | 7920 | 10.09 | 88.22 | 9.13 | 87.93 | 8.04 | 87.83 | 6.19 | 87.45 |
| | Barnes 1 | 431.000 | | | | CPR Arch type culvert | | | | | |
| | Barnes 1 | 442.853 | 7922 | 10.09 | 89.16 | 9.13 | 89.02 | 8.04 | 88.87 | 6.19 | 88.59 |
| | Barnes 1 | 453.145 | 7923 | 10.09 | 89.19 | 9.13 | 89.05 | 8.04 | 88.90 | 6.19 | 88.61 |
| Barnes | Barnes 1 | 520.875 | 7924 | 10.09 | 89.19 | 9.13 | 89.06 | 8.04 | 88.90 | 6.19 | 88.61 |
| | Barnes 1 | 539.500 | | | | Van Buren street pipe culvert | | | | | |
| | Barnes 1 | 556.093 | 7926 | 10.09 | 89.39 | 9.13 | 89.25 | 8.04 | 89.08 | 6.19 | 88.79 |
| | Barnes 1 | 618.813 | 7927 | 10.09 | 89.41 | 9.13 | 89.27 | 8.04 | 89.10 | 6.19 | 88.81 |
| | Barnes 1 | 663.384 | 7928 | 10.09 | 89.42 | 9.13 | 89.27 | 8.04 | 89.11 | 6.19 | 88.84 |
| | Barnes 1 | 725.531 | 7929 | 10.09 | 89.43 | 9.13 | 89.30 | 8.04 | 89.16 | 6.19 | 88.99 |
| | Barnes 1 | 917.037 | 7930 | 10.09 | 89.94 | 9.13 | 89.92 | 8.04 | 89.91 | 6.19 | 89.86 |
| | Barnes 1 | 1174.879 | 7932 | 10.09 | 90.49 | 9.13 | 90.46 | 8.04 | 90.41 | 6.19 | 90.31 |
| | Barnes 1 | 1545.167 | 7934 | 10.09 | 90.91 | 9.13 | 90.88 | 8.04 | 90.82 | 6.19 | 90.70 |
| | Barnes 1 | 1837.870 | 7936 | 10.09 | 91.26 | 9.13 | 91.23 | 8.04 | 91.19 | 6.19 | 91.12 |
| | Barnes 1 | 2041.768 | 7938 | 10.09 | 91.53 | 9.13 | 91.50 | 8.04 | 91.46 | 6.19 | 91.39 |
| | Barnes 1 | 2246.165 | 7940 | 10.09 | 91.87 | 9.13 | 91.81 | 8.04 | 91.75 | 6.19 | 91.63 |
| | Barnes 1 | 2547.123 | 7942 | 10.09 | 92.49 | 9.13 | 92.43 | 8.04 | 92.36 | 6.19 | 92.21 |
| | Barnes 1 | 2823.712 | 7944 | 10.09 | 93.38 | 9.13 | 93.34 | 8.04 | 93.28 | 6.19 | 93.14 |
| | Barnes 1 | 2863.525 | 7945 | 10.09 | 93.51 | 9.13 | 93.47 | 8.04 | 93.41 | 6.19 | 93.27 |
| | Barnes 1 | 2896.902 | 7946 | 10.09 | 93.92 | 9.13 | 93.88 | 8.04 | 93.83 | 6.19 | 93.73 |
| | Barnes 1 | 2912.642 | | | | college Road box culvert | | | | | |
| | Barnes 1 | 2922.642 | 7948 | 10.09 | 94.34 | 9.13 | 94.27 | 8.04 | 94.19 | 6.19 | 94.05 |
| | Barnes 1 | 3204.554 | 7950 | 10.09 | 95.17 | 9.13 | 95.13 | 8.04 | 95.06 | 6.19 | 94.87 |
| | Barnes 1 | 3490.855 | 7952 | 10.09 | 95.54 | 9.13 | 95.51 | 8.04 | 95.46 | 6.19 | 95.36 |
| | Barnes 1 | 3581.973 | 7954 | 10.09 | 95.57 | 9.13 | 95.53 | 8.04 | 95.49 | 6.19 | 95.41 |
| | Barnes 1 | 3592.500 | | | | Bedell Road box culvert | | | | | |
| | Barnes 1 | 3599.501 | 7955 | 10.09 | 95.70 | 9.13 | 95.65 | 8.04 | 95.57 | 6.19 | 95.47 |
| Barnes 2 | 3601.000 | 7956 copy | 3.61 | 95.78 | 3.27 | 95.72 | 2.88 | 95.63 | 2.22 | 95.51 | |
| Barnes 2 | 3645.256 | 7956 | 3.61 | 95.78 | 3.27 | 95.72 | 2.88 | 95.64 | 2.22 | 95.52 | |
| Barnes 2 | 3790.775 | 7958 | 3.61 | 95.79 | 3.27 | 95.73 | 2.88 | 95.65 | 2.22 | 95.53 | |
| Barnes 2 | 3898.204 | 7960 | 3.61 | 95.79 | 3.27 | 95.73 | 2.88 | 95.64 | 2.22 | 95.53 | |
| Barnes 2 | 3923.000 | | | | Railway crossing pipe culvert | | | | | | |
| Barnes 2 | 3948.159 | 7962 | 3.61 | 96.86 | 3.27 | 96.76 | 2.88 | 96.65 | 2.22 | 96.45 | |
| Barnes 2 | 4126.765 | 7964 | 3.61 | 96.87 | 3.27 | 96.77 | 2.88 | 96.66 | 2.22 | 96.45 | |
| Barnes Trib1 | BT 1 | 1.500 | 7980 copy | 6.38 | 95.69 | 5.77 | 95.63 | 5.08 | 95.54 | 3.91 | 95.44 |
| | BT 1 | 70.504 | 7980 | 6.38 | 95.96 | 5.77 | 95.90 | 5.08 | 95.83 | 3.91 | 95.69 |
| | BT 1 | 113.949 | 7981 | 6.38 | 96.02 | 5.77 | 95.97 | 5.08 | 95.90 | 3.91 | 95.76 |
| | BT 1 | 151.055 | 7982 | 6.38 | 96.03 | 5.77 | 95.98 | 5.08 | 95.91 | 3.91 | 95.78 |
| | BT 1 | 235.000 | | | | HWY 416 box culvert | | | | | |
| | BT 1 | 344.359 | 7984 | 6.38 | 96.50 | 5.77 | 96.50 | 5.08 | 96.29 | 3.91 | 95.97 |
| | BT 1 | 496.611 | 7986 | 6.38 | 96.51 | 5.77 | 96.51 | 5.08 | 96.39 | 3.91 | 96.14 |