

Lake Creek IFIM

Appendix F

Calibration Details for Study Sites 1-4 Lake Creek Instream Flow Study

DRAFT

LAKE CREEK INSTREAM FLOW REPORT

CALIBRATION REPORT

STUDY SITE 1, TRANSECTS 1-9

3 VELOCITY SET CALIBRATION

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For:

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APRIL 18, 2007

| Table 1a. Velocity Adjustment Factors, Lake Creek Study Site 1. Three Flow Deck. | | | | | | |
|---|----------------|------------|----------------|------------|----------------|------------|
| | Trans 1 | | Trans 2 | | Trans 3 | |
| Flow | Orig | Rev | Orig | Rev | Orig | Rev |
| 5 | 0.7809 | 0.9277 | 0.6972 | 0.8397 | 0.7533 | 0.8746 |
| 6 | 0.8053 | 0.9439 | 0.7694 | 0.8881 | 0.7747 | 0.9039 |
| 7 | 0.8265 | 0.9577 | 0.8292 | 0.9268 | 0.8054 | 0.9298 |
| 8 | 0.8446 | 0.9686 | 0.8862 | 0.9558 | 0.8371 | 0.9527 |
| 9 | 0.8613 | 0.9786 | 0.9261 | 0.9806 | 0.8522 | 0.9311 |
| 10 | 0.8765 | 0.9872 | 0.9540 | 0.9950 | 0.8790 | 0.9589 |
| 12 | 0.9025 | 1.0002 | 1.0009 | 1.0227 | 0.9261 | 1.0020 |
| 14 | 0.9224 | 1.0074 | 1.0293 | 1.0381 | 0.9602 | 1.0234 |
| 16 | 0.9409 | 1.0139 | 1.0471 | 1.0475 | 0.9830 | 1.0344 |
| 18 | 0.9569 | 1.0184 | 1.0567 | 1.0522 | 1.0061 | 1.0466 |
| 20 | 0.9708 | 1.0211 | 1.0604 | 1.0534 | 1.0241 | 1.0549 |
| 25 | 0.9984 | 1.0225 | 1.0534 | 1.0471 | 0.9735 | 1.0287 |
| 30 | 1.0182 | 1.0186 | 1.0337 | 1.0331 | 0.9753 | 1.0187 |
| 35 | 1.0319 | 1.0109 | 1.0082 | 1.0156 | 0.9645 | 1.0060 |
| 40 | 1.0409 | 1.0006 | 0.9803 | 0.9966 | 0.9442 | 0.9917 |
| 45 | 1.0461 | 0.9885 | 0.9518 | 0.9770 | 0.9176 | 0.9778 |
| 50 | 1.0482 | 0.9752 | 0.9238 | 0.9575 | 0.8864 | 0.9646 |
| 55 | 1.0479 | 0.9610 | 0.8967 | 0.9385 | 0.8517 | 0.9520 |
| 60 | 1.0456 | 0.9461 | 0.8708 | 0.9201 | 0.8146 | 0.9401 |
| 65 | 1.0414 | 0.9309 | 0.8462 | 0.9025 | 0.7760 | 0.9287 |
| 70 | 1.0359 | 0.9154 | 0.8228 | 0.8856 | 0.7367 | 0.9178 |
| 75 | 1.0291 | 0.8998 | 0.8007 | 0.8694 | 0.6974 | 0.9073 |
| 80 | 1.0213 | 0.8842 | 0.7797 | 0.8540 | 0.6586 | 0.8973 |
| 85 | 1.0126 | 0.8686 | 0.7599 | 0.8392 | 0.6208 | 0.8876 |
| 90 | 1.0033 | 0.8532 | 0.7411 | 0.8251 | 0.5842 | 0.8783 |
| 95 | 0.9933 | 0.8379 | 0.7233 | 0.8115 | 0.5492 | 0.8693 |
| 100 | 0.9828 | 0.8228 | 0.7064 | 0.7986 | 0.5159 | 0.8605 |

Table 1b. Velocity Adjustment Factors, Lake Creek Study Site 1. Three Flow Deck.

| Flow | Trans 4 | | Trans 5 | | Trans 6 | |
|------|---------|--------|---------|--------|---------|--------|
| | Orig | Rev | Orig | Rev | Orig | Rev |
| 5 | 0.3419 | 0.8880 | 0.4722 | 0.7974 | 0.6983 | 0.9079 |
| 6 | 0.4112 | 0.9267 | 0.5064 | 0.8211 | 0.7494 | 0.9467 |
| 7 | 0.4802 | 0.9607 | 0.5369 | 0.8420 | 0.7917 | 0.9680 |
| 8 | 0.5467 | 0.9902 | 0.5644 | 0.8605 | 0.8357 | 0.9924 |
| 9 | 0.6093 | 1.0158 | 0.5893 | 0.8769 | 0.8753 | 1.0123 |
| 10 | 0.6672 | 1.0378 | 0.6121 | 0.8915 | 0.9104 | 1.0286 |
| 12 | 0.7684 | 1.0733 | 0.6523 | 0.9165 | 0.9530 | 1.0522 |
| 14 | 0.8508 | 1.0995 | 0.6867 | 0.9371 | 0.9943 | 1.0678 |
| 16 | 0.9164 | 1.1130 | 0.7162 | 0.9542 | 1.0120 | 1.0620 |
| 18 | 0.9512 | 1.0965 | 0.7390 | 0.9644 | 1.0343 | 1.0652 |
| 20 | 0.9857 | 1.0957 | 0.7608 | 0.9771 | 1.0495 | 1.0648 |
| 25 | 1.0346 | 1.0873 | 0.8014 | 1.0018 | 1.0711 | 1.0608 |
| 30 | 1.0458 | 1.0724 | 0.8095 | 1.0168 | 1.0721 | 1.0503 |
| 35 | 1.0117 | 1.0488 | 0.8155 | 1.0251 | 1.0561 | 1.0361 |
| 40 | 0.9748 | 1.0199 | 0.8102 | 1.0313 | 1.0279 | 1.0193 |
| 45 | 0.9300 | 0.9888 | 0.7953 | 1.0354 | 0.9946 | 1.0017 |
| 50 | 0.8819 | 0.9580 | 0.7728 | 1.0376 | 0.9595 | 0.9836 |
| 55 | 0.8331 | 0.9286 | 0.7438 | 1.0381 | 0.9243 | 0.9655 |
| 60 | 0.7851 | 0.9007 | 0.7112 | 1.0373 | 0.8898 | 0.9478 |
| 65 | 0.7386 | 0.8744 | 0.6760 | 1.0357 | 0.8561 | 0.9300 |
| 70 | 0.6943 | 0.8496 | 0.6394 | 1.0334 | 0.8238 | 0.9130 |
| 75 | 0.6522 | 0.8262 | 0.6024 | 1.0305 | 0.7930 | 0.8967 |
| 80 | 0.6127 | 0.8042 | 0.5657 | 1.0271 | 0.7635 | 0.8811 |
| 85 | 0.5756 | 0.7834 | 0.5299 | 1.0232 | 0.7353 | 0.8661 |
| 90 | 0.5409 | 0.7638 | 0.4954 | 1.0190 | 0.7083 | 0.8516 |
| 95 | 0.5086 | 0.7452 | 0.4624 | 1.0144 | 0.6825 | 0.8377 |
| 100 | 0.4785 | 0.7276 | 0.4311 | 1.0094 | 0.6578 | 0.8244 |

Table 1c. Velocity Adjustment Factors, Lake Creek Study Site 1. Three Flow Deck.

| | Trans 7 | | Trans 8 | | Trans 9 | |
|------|---------|--------|---------|--------|---------|--------|
| Flow | Orig | Rev | Orig | Rev | Orig | Rev |
| 5 | 0.7847 | 0.9040 | 0.8656 | 0.8663 | 1.3188 | 1.2348 |
| 6 | 0.8447 | 0.9258 | 0.8934 | 0.8945 | 1.3392 | 1.1404 |
| 7 | 0.8889 | 0.9442 | 0.9161 | 0.9172 | 1.2877 | 1.1072 |
| 8 | 0.9224 | 0.9600 | 0.9351 | 0.9359 | 1.2915 | 1.0888 |
| 9 | 0.9483 | 0.9734 | 0.9202 | 0.9491 | 1.2763 | 1.0785 |
| 10 | 0.9613 | 0.9770 | 0.9351 | 0.9619 | 1.1801 | 1.0308 |
| 12 | 0.9877 | 0.9925 | 0.9595 | 0.9818 | 1.1305 | 1.0127 |
| 14 | 1.0041 | 1.0036 | 0.9785 | 0.9961 | 1.0430 | 0.9587 |
| 16 | 0.9988 | 0.9965 | 0.9932 | 1.0063 | 1.0271 | 0.9551 |
| 18 | 1.0040 | 1.0017 | 1.0044 | 1.0135 | 1.0177 | 0.9548 |
| 20 | 1.0050 | 1.0040 | 1.0127 | 1.0184 | 1.0120 | 0.9563 |
| 25 | 0.9945 | 1.0002 | 1.0240 | 1.0234 | 1.0060 | 0.9639 |
| 30 | 0.9730 | 0.9878 | 1.0252 | 1.0216 | 1.0049 | 0.9732 |
| 35 | 0.9469 | 0.9719 | 1.0195 | 1.0155 | 1.0048 | 0.9822 |
| 40 | 0.9183 | 0.9540 | 1.0086 | 1.0067 | 1.0034 | 0.9896 |
| 45 | 0.8880 | 0.9344 | 0.9933 | 0.9955 | 1.0006 | 0.9955 |
| 50 | 0.8572 | 0.9142 | 0.9749 | 0.9829 | 0.9963 | 1.0002 |
| 55 | 0.8260 | 0.8931 | 0.9546 | 0.9697 | 0.9911 | 1.0044 |
| 60 | 0.7953 | 0.8720 | 0.9329 | 0.9562 | 0.9849 | 1.0080 |
| 65 | 0.7659 | 0.8517 | 0.9104 | 0.9425 | 0.9771 | 1.0106 |
| 70 | 0.7376 | 0.8323 | 0.8873 | 0.9289 | 0.9681 | 1.0125 |
| 75 | 0.7104 | 0.8134 | 0.8640 | 0.9154 | 0.9583 | 1.0142 |
| 80 | 0.6844 | 0.7952 | 0.8405 | 0.9020 | 0.9474 | 1.0154 |
| 85 | 0.6596 | 0.7778 | 0.8172 | 0.8888 | 0.9357 | 1.0164 |
| 90 | 0.6359 | 0.7610 | 0.7941 | 0.8758 | 0.9231 | 1.0171 |
| 95 | 0.6134 | 0.7449 | 0.7713 | 0.8631 | 0.9098 | 1.0176 |
| 100 | 0.5918 | 0.7294 | 0.7489 | 0.8507 | 0.8957 | 1.0179 |

Table 2. Changes to original data decks, Lake Creek Study Site 1, 3 Flow Calibration

| | | Low Flow | | Middle Flow | | High Flow | | | |
|-----------|------|----------|------|-------------|------|-----------|------|--|--|
| Trans Sta | | Orig | Rev | Orig | Rev | Orig | Rev | Other | |
| 1 | 10.5 | | | | | None | 0.01 | Under water at high flow | |
| | 15.0 | -0.02 | 0.02 | | | | | Eliminate negative velocity regression | |
| | 16.0 | 0.09 | 0.20 | | | 1.13 | 1.00 | | |
| | 17.0 | 0.00 | 0.10 | | | | | Average of neighboring cells | |
| | 25.5 | 0.00 | 0.45 | | | | | Average of neighboring cells | |
| | 32.5 | 0.00 | 0.37 | | | | | Average of neighboring cells | |
| | 34.5 | -0.02 | 0.15 | | | | | Eliminate negative velocity regression | |
| | 35.0 | -0.02 | 0.15 | | | | | | |
| 2 | 2.7 | 0.17 | 0.06 | 0.00 | 0.08 | 0.09 | 0.10 | Reverse velocity regression | |
| | 5.5 | | | -0.09 | 0.50 | | | To fit regression | |
| | 6.5 | | | -0.05 | 0.60 | | | To fit regression | |
| | 6.7 | 0.55 | 0.00 | | | | | Outlier at chosen WSEL | |
| | 7.0 | | | 0.15 | 0.87 | | | | |
| | 7.5 | 0.36 | 0.40 | 0.53 | 0.98 | 1.76 | 1.60 | | |
| | 11.5 | | | 1.46 | 0.79 | | | | |
| | 15.0 | 1.49 | 1.15 | 1.00 | 1.24 | 1.13 | 1.23 | | |
| | 16.0 | 1.46 | 1.20 | 1.14 | 0.97 | 0.64 | 0.80 | | |
| | 17.0 | 1.49 | 1.20 | 1.74 | 1.42 | | | | |
| | 19.5 | 0.14 | 0.25 | | | 1.39 | 1.20 | | |
| | 20.0 | | | 1.35 | 1.07 | | | | |
| | 20.5 | | | 1.88 | 1.22 | 2.27 | 2.00 | | |
| | 21.0 | | | 2.15 | 1.34 | | | | |
| 21.5 | | | 2.20 | 1.47 | | | | | |
| 22.0 | | | 2.12 | 1.40 | 2.64 | 2.40 | | | |
| 22.5 | 0.70 | 0.55 | | | | | | | |
| 3 | 10.0 | | | -0.09 | 0.09 | | | Eliminate negative velocity | |
| | 11.0 | 0.00 | 0.15 | | | | | | |
| | 12.0 | 0.00 | 0.15 | | | | | | |
| | 12.2 | 0.00 | 0.15 | | | | | | |
| | 12.5 | 0.00 | 0.10 | | | | | | |
| | 13.5 | 0.00 | 0.15 | | | | | | |
| | 14.5 | | | -0.05 | 0.05 | | | Eliminate negative velocity | |

Table 2. Changes to original data decks, Lake Creek Study Site 1, 3 Flow Calibration

| | Low Flow | | Middle Flow | | High Flow | | |
|-----------|----------|-------|-------------|-------|-----------|-------|------------------------------|
| Trans Sta | Orig | Rev | Orig | Rev | Orig | Rev | Other |
| 17.5 | 0.00 | 0.10 | | | 3.87 | 3.10 | Elev 96.43 to 96.45 |
| 22.0 | 0.00 | 0.15 | | | | | |
| 23.0 | 0.00 | 0.15 | | | | | |
| 27.0 | | | -0.05 | 0.00 | 3.70 | 3.00 | |
| 28.0 | 0.11 | 0.00 | | | | | |
| 28.5 | 0.05 | 0.15 | 2.80 | 0.42 | | | |
| 29.3 | | | 0.00 | 0.01 | | | Allow velocity in cell |
| 4 | 2.5 | -0.19 | 0.19 | -0.21 | 0.21 | | Eliminate negative velocity |
| | 3.0 | -0.28 | 0.28 | -0.12 | 0.12 | | Eliminate negative velocity |
| | 3.5 | -0.22 | 0.22 | | | | Eliminate negative velocity |
| | 4.0 | -0.40 | 0.40 | | | | Eliminate negative velocity |
| | 4.5 | | | -0.18 | 0.18 | | Eliminate negative velocity |
| | 5.5 | 0.64 | 0.44 | | | 0.28 | 0.55 |
| | 6.0 | 1.00 | 0.30 | | | 0.34 | 0.55 |
| | 12.0 | | | 2.34 | 0.80 | | |
| | 14.0 | | | 1.67 | 1.26 | | |
| | 14.5 | 0.02 | 0.20 | 1.38 | 0.86 | | |
| | 15.5 | -0.23 | 0.23 | | | | Eliminate negative velocity |
| | 17.5 | 1.01 | 0.80 | 0.65 | 0.56 | 0.24 | 0.40 |
| | 18.0 | 0.00 | 0.50 | | | | Average of neighboring cells |
| | 18.5 | -0.05 | 0.50 | 3.03 | 1.71 | | Eliminate negative velocity |
| | 19.5 | 0.23 | 0.00 | | | | Perched WSEL |
| | 20.0 | | | 1.09 | 1.30 | 3.55 | 3.00 |
| | 20.5 | -0.45 | 0.60 | | 3.13 | 2.90 | |
| | 21.0 | 0.70 | 0.00 | | | | |
| | 21.5 | 0.63 | 0.00 | | | | |
| | 22.0 | | | -0.10 | 0.10 | -0.10 | 0.10 |
| | 24.0 | 0.15 | 0.00 | | | | Perched WSEL |
| 5 | 5.1 | | | | | 0.00 | 0.10 |
| | 5.5 | | | | | 0.00 | 0.10 |
| | 6.0 | | | | | 0.00 | 0.10 |
| | 6.5 | | | -0.08 | 0.08 | | |
| | 7.5 | -0.07 | 0.07 | -0.11 | 0.11 | | |

Table 2. Changes to original data decks, Lake Creek Study Site 1, 3 Flow Calibration

| | Low Flow | | Middle Flow | | High Flow | | |
|-----------|----------|------|-------------|------|-----------|------|-----------------------------|
| Trans Sta | Orig | Rev | Orig | Rev | Orig | Rev | Other |
| 8.0 | -0.07 | 0.07 | -0.13 | 0.13 | | | |
| 8.5 | | | -0.08 | 0.08 | | | |
| 9.0 | | | -0.22 | 0.22 | | | |
| 10.0 | 1.61 | 1.41 | 1.87 | 1.51 | 1.41 | 1.61 | |
| 11.0 | 0.95 | 1.10 | 2.41 | 2.17 | 3.89 | 3.40 | |
| 11.5 | -0.05 | 0.00 | | | | | |
| 12.0 | 0.02 | 0.00 | | | | | |
| 12.5 | 0.00 | 0.10 | 0.00 | 1.08 | | | |
| 13.5 | | | 0.00 | 1.08 | | | |
| 15.0 | | | 1.30 | 1.17 | 2.76 | 2.10 | |
| 15.5 | 0.27 | 0.40 | 2.47 | 1.02 | 2.64 | 2.00 | |
| 22.6 | | | | | | | Elev 93.96 to 94.65 |
| 24.5 | | | | | | | Elev 71.76 to 94.59 |
| 25.0 | | | | | | | Elev 91.76 to 94.59 |
| 26.0 | | | | | | | Elev 94.21 to 94.31 |
| 26.5 | | | | | | | Elev 94.21 to 94.31 |
| 6 10.0 | | | | | 0.00 | 0.10 | Allow flow routing |
| 11.0 | | | | | 0.00 | 0.10 | Allow flow routing |
| 12.0 | | | | | 0.00 | 0.10 | Allow flow routing |
| 18.0 | | | 2.71 | 2.03 | | | |
| 19.5 | 3.86 | 1.20 | | | 1.20 | 3.86 | |
| 20.0 | 3.36 | 1.07 | | | 1.07 | 3.36 | |
| 29.5 | 0.04 | 0.25 | 0.26 | 0.92 | 2.41 | 2.10 | |
| 30.5 | 0.00 | 0.10 | | | | | Allow flow routing |
| 33.0 | | | | | 0.00 | 0.10 | Allow flow routing |
| 34.0 | | | | | 0.00 | 0.10 | Allow flow routing |
| 34.5 | | | | | 0.00 | 0.10 | Allow flow routing |
| 7 20.0 | 1.58 | 0.20 | 0.05 | 0.62 | 0.20 | 1.58 | Switched Vel for VAF |
| 20.5 | 0.05 | 0.20 | 1.77 | 0.58 | 1.19 | 1.40 | |
| 30.0 | | | 1.20 | 1.30 | 2.54 | 2.60 | |
| 8 8.0 | 0.00 | 0.15 | 0.38 | 0.35 | -0.38 | 0.38 | Eliminate negative velocity |
| 9.0 | | | | | -0.07 | 0.07 | Eliminate negative velocity |

Table 2. Changes to original data decks, Lake Creek Study Site 1, 3 Flow Calibration

| | Low Flow | | Middle Flow | | High Flow | | |
|-----------|----------|------|-------------|------|-----------|------|---|
| Trans Sta | Orig | Rev | Orig | Rev | Orig | Rev | Other |
| 10.0 | | | | | -0.07 | 0.07 | Eliminate negative velocity |
| 12.0 | 0.03 | 0.10 | 0.11 | 0.15 | | | |
| 12.5 | 0.03 | 0.10 | 0.09 | 0.15 | | | |
| 26.5 | 0.07 | 0.15 | | | | | |
| 9 18.0 | | | | | | | Elev 96.20 to 96.10 |
| 18.5 | | | | | | | Elev 96.30 96.00 |
| 19.0 | | | | | | | Elev 96.30 to 96.15 |
| 19.5 | | | | | | | Elev 96.35 to 96.15 |
| 20.5 | | | | | | | Elev 96.20 to 96.00 |
| 21.0 | | | | | | | Elev 96.35 to 96.10 |
| 21.5 | | | | | 5.10 | 4.60 | Reduce velocity at high extrapolation flows (x 0.9) |
| 22.0 | | | | | 5.40 | 4.86 | Reduce velocity at high extrapolation flows (x 0.9) |
| 22.5 | 1.82 | 1.45 | 1.63 | | | | Reduce anomalously high velocity (x 0.8) |
| 25.0 | 0.01 | 0.10 | 0.03 | 0.20 | | | |
| 25.5 | | | | | | | Elev 96.30 to 96.15 |
| 27.5 | | | 2.27 | 3.16 | | | Reduce anomalously high velocity |
| 28.5 | | | 3.57 | 1.85 | | | Reduce anomalously high velocity (x 0.8) |
| 29.0 | 0.40 | 0.60 | 3.29 | 1.43 | 3.01 | 2.70 | |
| 29.5 | | | 0.30 | 0.40 | 1.15 | 1.05 | |
| 33.0 | | | | | | | Elev 96.20 to 96.05 |

Table 3.1 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | | | | | | | | | | | |
|---|----|-------|--------|-------|-------|--------------|-------|--------|-------|-----|-------------|------|--------|-----|---|------|-------------|------|--------|---|------|-------|------|
| Transect 1 | | | | | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 96.96 | | 97.24 | | | | 97.49 | | | | 97.68 | | | | 98.10 | | | | | | |
| Disch (cfs) | | | 5.00 | | 12.50 | | | | 25.50 | | | | 41.00 | | | | 102.50 | | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Orig | Rev | |
| | 1 | 0.00 | 101.54 | | | | | | | | | | | | | | | | | | | | |
| | 2 | 0.10 | 99.96 | | | | | | | | | | | | | | | | | | | | |
| | 3 | 0.70 | 100.67 | | | | | | | | | | | | | | | | | | | | |
| | 4 | 1.40 | 99.19 | | | | | | | | | | | | | | | | | | | | |
| * | 5 | 10.00 | 98.55 | | | | | | | | | | | | | | | | | | | | |
| | 6 | 10.50 | 97.68 | | | | | | | | | | | | | | | 0.01 | 0.00 | | | 0.25 | 0.06 |
| | 7 | 11.00 | 97.60 | | | | | | | | | | | | | | | 0.09 | 0.02 | | | 0.28 | 0.04 |
| | 8 | 12.00 | 97.36 | | | | | | | | | 0.13 | 0.13 | | | | 0.24 | 0.23 | 0.23 | | | 0.36 | 0.33 |
| | 9 | 13.00 | 97.21 | | | | | | | | 0.46 | 0.43 | 0.45 | | | | 0.74 | 0.77 | 0.76 | | | 1.97 | 1.73 |
| | 10 | 14.00 | 97.06 | | | 0.09 | 0.08 | 0.09 | | | 0.17 | 0.16 | 0.17 | | | | 0.23 | 0.24 | 0.24 | | | 0.44 | 0.41 |
| * | 11 | 15.00 | 96.66 | -0.26 | 0.00 | -0.02 | -0.03 | 0.02 | | | 0.13 | 0.18 | 0.12 | | | | 0.38 | 0.34 | 0.39 | | | 0.56 | 3.19 |
| * | 12 | 16.00 | 96.66 | 0.01 | 0.06 | 0.09 | 0.10 | 0.22 | | | 0.89 | 0.53 | * 0.64 | * | | | 1.13 | 1.57 | * 1.25 | | | 10.75 | 3.84 |
| * | 13 | 17.00 | 96.66 | 0.20 | 0.02 | 0.00 | 0.36 | * 0.11 | | | 0.56 | 0.54 | 0.39 | | | | 0.68 | 0.70 | 0.86 | | | 0.95 | 3.40 |
| | 14 | 18.00 | 96.46 | 0.01 | 0.01 | 0.11 | 0.09 | 0.10 | | | 0.30 | 0.40 | 0.41 | | | | 1.24 | 1.02 | 1.03 | | | 5.33 | 5.18 |
| | 15 | 19.00 | 96.81 | 0.43 | 0.48 | 0.95 | 0.90 | 0.97 | | | 1.70 | 1.56 | 1.61 | | | | 2.06 | 2.18 | 2.16 | | | 3.54 | 3.28 |
| | 16 | 20.00 | 96.61 | 0.52 | 0.59 | 0.95 | 0.86 | 0.94 | | | 1.22 | 1.25 | 1.29 | | | | 1.57 | 1.55 | 1.53 | | | 1.99 | 1.84 |
| | 17 | 20.50 | 96.55 | 0.54 | 0.62 | 0.86 | 0.79 | 0.86 | | | 1.03 | 1.03 | 1.06 | | | | 1.19 | 1.19 | 1.18 | | | 1.35 | 1.24 |
| | 18 | 21.00 | 96.60 | 0.51 | 0.59 | 0.71 | 0.62 | 0.68 | | | 0.63 | 0.71 | 0.73 | | | | 0.80 | 0.75 | 0.74 | | | 0.70 | 0.64 |
| | 19 | 21.50 | 96.41 | 0.25 | 0.28 | 0.52 | 0.42 | 0.46 | | | 0.45 | 0.62 | 0.65 | | | | 0.97 | 0.78 | 0.78 | | | 1.03 | 0.96 |
| | 20 | 22.00 | 96.66 | 0.12 | 0.13 | 0.32 | 0.28 | 0.30 | | | 0.49 | 0.55 | 0.57 | | | | 0.90 | 0.83 | 0.83 | | | 1.57 | 1.47 |
| | 21 | 22.50 | 96.41 | 0.18 | 0.20 | 0.44 | 0.35 | 0.38 | | | 0.40 | 0.58 | 0.60 | | | | 1.01 | 0.79 | * 0.79 | * | | 1.20 | 1.13 |
| | 22 | 23.00 | 96.53 | 0.30 | 0.34 | 0.52 | 0.45 | 0.49 | | | 0.53 | 0.61 | 0.63 | | | | 0.79 | 0.72 | 0.72 | | | 0.85 | 0.78 |
| | 23 | 23.50 | 96.61 | 0.21 | 0.24 | 0.43 | 0.40 | 0.43 | | | 0.64 | 0.63 | 0.65 | | | | 0.81 | 0.82 | 0.81 | | | 1.18 | 1.09 |
| | 24 | 24.00 | 96.63 | 0.25 | 0.28 | 0.48 | 0.41 | 0.44 | | | 0.48 | 0.59 | 0.61 | | | | 0.83 | 0.73 | 0.72 | | | 0.93 | 0.86 |
| | 25 | 24.50 | 96.68 | 0.18 | 0.20 | 0.27 | 0.26 | 0.28 | | | 0.38 | 0.34 | 0.35 | | | | 0.36 | 0.39 | 0.39 | | | 0.44 | 0.40 |
| | 26 | 25.00 | 96.41 | 0.13 | 0.15 | 0.37 | 0.36 | 0.39 | | | 0.87 | 0.76 | 0.78 | | | | 1.11 | 1.21 | 1.20 | | | 2.55 | 2.38 |
| * | 27 | 25.50 | 96.31 | 0.17 | 0.22 | 0.00 | 0.40 | * 0.45 | * | | 0.77 | 0.74 | 0.77 | | | | 1.05 | 1.08 | 1.06 | | | 1.91 | 1.68 |
| | 28 | 26.00 | 96.41 | 0.32 | 0.37 | 0.54 | 0.55 | 0.60 | | | 1.13 | 0.82 | * 0.84 | * | | | 0.83 | 1.03 | 1.01 | | | 1.36 | 1.24 |
| | 29 | 26.50 | 96.06 | 0.26 | 0.30 | 0.59 | 0.54 | 0.58 | | | 0.91 | 0.92 | 0.95 | | | | 1.28 | 1.27 | 1.26 | | | 2.02 | 1.87 |
| | 30 | 27.00 | 95.91 | 0.30 | 0.34 | 0.66 | 0.64 | 0.70 | | | 1.36 | 1.13 | 1.17 | | | | 1.43 | 1.61 | 1.59 | | | 2.67 | 2.46 |
| | 31 | 27.50 | 95.86 | 0.49 | 0.57 | 0.94 | 0.91 | 0.99 | | | 1.68 | 1.42 | 1.47 | | | | 1.67 | 1.86 | 1.84 | | | 2.64 | 2.43 |
| | 32 | 28.00 | 95.61 | 0.57 | 0.65 | 0.96 | 0.94 | 1.02 | | | 1.64 | 1.35 | 1.39 | | | | 1.47 | 1.67 | 1.65 | | | 2.13 | 1.95 |
| | 33 | 28.50 | 95.61 | 0.52 | 0.59 | 1.04 | 0.99 | 1.07 | | | 1.77 | 1.59 | 1.64 | | | | 1.98 | 2.12 | 2.10 | | | 3.13 | 2.89 |
| | 34 | 29.00 | 95.51 | 0.52 | 0.59 | 0.98 | 0.93 | 1.01 | | | 1.58 | 1.43 | 1.47 | | | | 1.72 | 1.84 | 1.82 | | | 2.55 | 2.35 |
| | 35 | 29.50 | 95.51 | 0.36 | 0.41 | 0.85 | 0.77 | 0.84 | | | 1.34 | 1.36 | 1.41 | | | | 1.96 | 1.94 | 1.92 | | | 3.21 | 2.98 |
| | 36 | 30.00 | 95.61 | 0.45 | 0.51 | 0.94 | 0.82 | 0.89 | | | 1.11 | 1.27 | 1.31 | | | | 1.81 | 1.66 | 1.64 | | | 2.32 | 2.16 |
| | 37 | 30.50 | 95.71 | 0.49 | 0.55 | 0.98 | 0.82 | 0.89 | | | 0.92 | 1.19 | * 1.23 | * | | | 1.76 | 1.49 | 1.48 | | | 1.92 | 1.79 |
| | 38 | 31.00 | 95.71 | 0.51 | 0.59 | 0.95 | 0.86 | 0.94 | | | 1.25 | 1.26 | 1.31 | | | | 1.59 | 1.58 | 1.57 | | | 2.05 | 1.90 |
| | 39 | 31.50 | 95.66 | 0.50 | 0.57 | 0.92 | 0.86 | 0.94 | | | 1.39 | 1.28 | 1.33 | | | | 1.54 | 1.62 | 1.61 | | | 2.16 | 1.99 |
| | 40 | 32.00 | 95.81 | 0.37 | 0.43 | 0.53 | 0.56 | 0.61 | | | 1.14 | 0.75 | * 0.78 | * | | | 0.68 | 0.89 | * 0.88 | | | 1.05 | 0.95 |
| * | 41 | 32.50 | 95.88 | 1.34 | 0.15 | 0.00 | 1.27 | * 0.42 | * | | 1.19 | 1.19 | 0.86 | * | | | 1.10 | 1.10 | 1.36 | * | | 0.81 | 2.78 |
| | 42 | 33.00 | 95.91 | 0.05 | 0.06 | 0.22 | 0.24 | 0.26 | | | 1.39 | 0.82 | * 0.84 | * | | | 1.27 | 1.79 | * 1.77 | * | | 6.78 | 6.32 |
| | 43 | 33.50 | 96.31 | 0.35 | 0.39 | 0.83 | 0.79 | 0.86 | | | 1.67 | 1.47 | 1.52 | | | | 1.99 | 2.16 | 2.14 | | | 3.81 | 3.53 |
| | 44 | 34.00 | 96.06 | 0.08 | 0.09 | 0.22 | 0.23 | 0.25 | | | 0.77 | 0.51 | * 0.52 | * | | | 0.63 | 0.83 | 0.82 | | | 1.79 | 1.65 |
| * | 45 | 34.50 | 96.16 | -0.57 | 0.03 | -0.02 | -0.05 | 0.14 | | | 0.35 | 0.46 | 0.41 | | | | 0.88 | 0.81 | 0.80 | | | 1.31 | 2.52 |
| * | 46 | 35.00 | 96.36 | -0.51 | 0.02 | -0.02 | -0.06 | 0.11 | | | 0.24 | 0.38 | 0.32 | | | | 0.77 | 0.68 | 0.64 | | | 1.11 | 2.11 |
| | 47 | 35.50 | 96.51 | 0.02 | 0.02 | 0.10 | 0.08 | 0.08 | | | 0.13 | 0.23 | 0.24 | | | | 0.69 | 0.47 | * 0.47 | * | | 1.58 | 1.53 |
| | 48 | 36.00 | 97.26 | | | | | | | | 0.29 | 0.29 | 0.30 | | | | 0.26 | 0.26 | 0.26 | | | 0.18 | 0.17 |
| | 49 | 37.00 | 97.26 | | | | | | | | | 0.03 | 0.03 | | | | 0.05 | 0.05 | 0.05 | | | 0.07 | 0.06 |
| | 50 | 38.00 | 97.65 | | | | | | | | | | | | | | | 0.01 | 0.01 | | | 0.05 | 0.04 |
| | 51 | 38.40 | 97.70 | | | | | | | | | | | | | | | | | | | 0.04 | 0.04 |
| | 52 | 39.20 | 98.18 | | | | | | | | | | | | | | | | | | | | |
| | 53 | 44.10 | 101.30 | | | | | | | | | | | | | | | | | | | | |
| | 54 | 44.22 | 101.42 | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | 3 * | 2 * | 6 * | 7 * | 5 * | 4 * | | | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.2 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----|-------|--------|-------|------|-------------|------|-------|------|---|--------------|-------|---|------|---|-------------|------|-----------|--|------|--|--|--|-----|--|--|--|
| Transect 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | 99.34 | | 99.58 | | | | 99.81 | | | | 99.98 | | | | 100.36 | | | | | | | | | | | |
| Disch (cfs) | | 5.00 | | 12.50 | | | | 25.50 | | | | 41.00 | | | | 102.50 | | | | | | | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Meas | Orig | Rev | | | | | | | | | |
| | 1 | 0.00 | 102.93 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 1.80 | 101.30 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2.10 | 100.20 | | | | | | | | | | | | | | | 0.28 0.02 | | | | | | | | | |
| * | 4 | 2.60 | 99.99 | | | | | | | | | | | | | | | 0.30 0.03 | | | | | | | | | |
| | 5 | 2.70 | 98.99 | 0.10 | 0.03 | 0.17 | 0.18 | | 0.06 | | 0.00 | 0.31 | * | 0.09 | | 0.09 | 0.43 | * 0.10 | | | | | | | | | |
| | 6 | 3.50 | 98.99 | 0.08 | 0.05 | 0.15 | 0.16 | | 0.16 | | 0.30 | 0.26 | * | 0.35 | | 0.55 | 0.36 | 0.55 | | | | | | | | | |
| | 7 | 4.50 | 98.69 | 0.12 | 0.05 | 0.21 | 0.22 | | 0.22 | | 0.54 | 0.36 | | 0.67 | | 1.33 | 0.49 | * 1.31 | | | | | | | | | |
| * | 8 | 5.50 | 99.44 | | | 0.13 | 0.14 | | 0.15 | | -0.09 | 0.27 | * | 0.49 | * | 0.88 | 0.40 | * 1.00 | | | | | | | | | |
| | 9 | 6.00 | 99.09 | 0.05 | 0.04 | 0.12 | 0.13 | | 0.12 | | 0.00 | 0.22 | * | 0.27 | * | 0.46 | 0.32 | 0.42 | | | | | | | | | |
| * | 10 | 6.50 | 99.09 | 0.17 | 0.17 | 0.37 | 0.39 | | 0.39 | | -0.05 | 0.68 | * | 0.65 | * | 0.85 | 0.96 | 0.86 | | | | | | | | | |
| * | 11 | 7.00 | 99.09 | 0.17 | 0.12 | 0.36 | 0.38 | | 0.40 | | 0.15 | 0.66 | * | 0.92 | * | 1.41 | 0.94 | * 1.50 | | | | | | | | | |
| * | 12 | 7.50 | 99.09 | 0.17 | 0.13 | 0.36 | 0.38 | | 0.45 | | 0.53 | 0.66 | * | 1.03 | * | 1.76 | 0.94 | * 1.70 | | | | | | | | | |
| | 13 | 8.00 | 99.09 | 0.17 | 0.07 | 0.33 | 0.35 | | 0.37 | | 0.97 | 0.59 | * | 1.11 | | 2.09 | 0.83 | * 2.17 | | | | | | | | | |
| | 14 | 8.50 | 98.59 | 0.21 | 0.10 | 0.34 | 0.36 | | 0.40 | | 1.06 | 0.56 | * | 1.04 | | 1.65 | 0.76 | * 1.85 | | | | | | | | | |
| | 15 | 9.00 | 98.79 | 0.27 | 0.18 | 0.46 | 0.49 | | 0.56 | | 1.41 | 0.77 | * | 1.17 | | 1.47 | 1.06 | * 1.78 | | | | | | | | | |
| | 16 | 9.50 | 98.79 | 0.47 | 0.37 | 0.81 | 0.86 | | 0.87 | | 1.36 | 1.37 | | 1.46 | | 1.88 | 1.88 | 1.93 | | | | | | | | | |
| | 17 | 10.00 | 98.89 | 0.50 | 0.33 | 0.89 | 0.94 | | 0.85 | | 1.08 | 1.53 | * | 1.56 | * | 2.51 | 2.11 | 2.18 | | | | | | | | | |
| | 18 | 10.50 | 98.89 | 0.54 | 0.53 | 0.95 | 1.00 | | 1.01 | | 1.37 | 1.63 | | 1.44 | | 1.69 | 2.25 | * 1.72 | | | | | | | | | |
| * | 19 | 11.00 | 98.79 | 0.64 | 0.63 | 1.10 | 1.16 | | 1.07 | | 1.11 | 1.86 | * | 1.40 | * | 1.73 | 2.56 | * 1.57 | | | | | | | | | |
| * | 20 | 11.50 | 98.89 | 0.12 | 0.06 | 0.21 | 0.22 | | 0.29 | | 1.46 | 0.36 | * | 0.83 | * | 1.46 | 0.50 | * 1.59 | | | | | | | | | |
| | 21 | 12.00 | 98.79 | 0.06 | 0.02 | 0.10 | 0.11 | | 0.11 | | 0.32 | 0.17 | | 0.41 | | 0.94 | 0.23 | * 0.93 | | | | | | | | | |
| | 22 | 12.50 | 98.59 | 0.38 | 0.35 | 0.62 | 0.66 | | 0.76 | | 1.60 | 1.02 | * | 1.21 | * | 1.24 | 1.39 | 1.54 | | | | | | | | | |
| | 23 | 13.00 | 98.89 | 0.68 | 1.03 | 1.17 | 1.24 | | 1.22 | | 1.21 | 1.97 | * | 1.21 | | 1.12 | 2.71 | * 1.14 | | | | | | | | | |
| * | 24 | 14.00 | 98.49 | 0.37 | 0.26 | 0.60 | 0.63 | | 0.53 | | 0.49 | 0.98 | * | 0.80 | * | 1.25 | 1.32 | 0.99 | | | | | | | | | |
| * | 25 | 15.00 | 98.79 | 0.88 | 0.93 | 1.49 | 1.57 | | 1.20 | | 1.00 | 2.51 | * | 1.27 | * | 1.13 | 3.43 | * 1.24 | | | | | | | | | |
| * | 26 | 16.00 | 98.99 | 0.82 | 1.35 | 1.46 | 1.54 | | 1.22 | | 1.14 | 2.51 | * | 0.98 | | 0.64 | 3.48 | * 0.79 | | | | | | | | | |
| * | 27 | 17.00 | 98.39 | 0.94 | 0.87 | 1.49 | 1.58 | | 1.26 | | 1.74 | 2.42 | * | 1.46 | | 1.49 | 3.24 | * 1.51 | | | | | | | | | |
| | 28 | 17.50 | 98.59 | 0.83 | 0.86 | 1.33 | 1.41 | | 1.40 | | 1.70 | 2.17 | * | 1.78 | | 1.94 | 2.92 | * 1.96 | | | | | | | | | |
| | 29 | 18.00 | 98.59 | 0.59 | 0.50 | 0.95 | 1.00 | | 0.96 | | 1.17 | 1.55 | * | 1.39 | | 1.74 | 2.09 | * 1.66 | | | | | | | | | |
| | 30 | 18.50 | 98.39 | 0.23 | 0.14 | 0.35 | 0.37 | | 0.39 | | 0.77 | 0.56 | * | 0.77 | | 1.06 | 0.75 | * 1.14 | | | | | | | | | |
| * | 31 | 19.00 | 98.29 | 0.46 | 0.41 | 0.70 | 0.74 | | 0.64 | | 0.55 | 1.12 | * | 0.79 | * | 1.01 | 1.48 | * 0.85 | | | | | | | | | |
| * | 32 | 19.50 | 98.39 | 0.09 | 0.07 | 0.14 | 0.15 | | 0.30 | | 0.90 | 0.22 | * | 0.80 | | 1.39 | 0.30 | * 1.43 | | | | | | | | | |
| * | 33 | 20.00 | 98.19 | 0.24 | 0.09 | 0.36 | 0.38 | | 0.41 | | 1.35 | 0.57 | * | 1.12 | | 1.90 | 0.75 | * 2.06 | | | | | | | | | |
| * | 34 | 20.50 | 98.29 | 0.31 | 0.14 | 0.47 | 0.50 | | 0.53 | | 1.88 | 0.75 | * | 1.27 | * | 2.27 | 0.99 | * 2.15 | | | | | | | | | |
| * | 35 | 21.00 | 98.39 | 0.35 | 0.17 | 0.55 | 0.58 | | 0.61 | | 2.15 | 0.88 | * | 1.42 | * | 2.57 | 1.18 | * 2.33 | | | | | | | | | |
| * | 36 | 21.50 | 98.69 | 0.27 | 0.19 | 0.44 | 0.47 | | 0.67 | * | 2.20 | 0.73 | * | 1.55 | * | 2.58 | 0.98 | * 2.55 | | | | | | | | | |
| * | 37 | 22.00 | 98.69 | 0.27 | 0.16 | 0.45 | 0.48 | | 0.62 | | 2.12 | 0.75 | * | 1.50 | * | 2.64 | 1.01 | * 2.56 | | | | | | | | | |
| * | 38 | 22.50 | 98.69 | 0.42 | 0.26 | 0.70 | 0.74 | | 0.83 | | 1.94 | 1.17 | * | 1.76 | | 2.36 | 1.59 | * 2.72 | | | | | | | | | |
| | 39 | 23.00 | 98.89 | 0.34 | 0.24 | 0.61 | 0.64 | | 0.74 | | 1.80 | 1.05 | * | 1.52 | | 1.92 | 1.44 | * 2.30 | | | | | | | | | |
| | 40 | 24.00 | 98.89 | 0.37 | 0.28 | 0.70 | 0.74 | | 0.80 | | 1.68 | 1.23 | * | 1.59 | | 2.11 | 1.71 | 2.35 | | | | | | | | | |
| | 41 | 25.00 | 99.49 | | | 0.41 | 0.43 | | 0.43 | | 0.82 | 1.04 | * | 0.99 | | 1.66 | 1.64 | 1.63 | | | | | | | | | |
| | 42 | 26.00 | 99.59 | | | 0.00 | | | | | 0.61 | 0.93 | * | 0.64 | | 0.65 | 1.72 | * 0.65 | | | | | | | | | |
| | 43 | 26.65 | 99.99 | | | | | | | | | | | | | | | 2.07 0.73 | | | | | | | | | |
| | 44 | 28.05 | 101.54 | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | 0 * | | | | 1 * | | | | 31 * | | | | 16 * | | | | 29 * | | | | 3 * | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.3 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | | | | | | | | | | | |
|---|------|--------|-------|-------|------|-------------|------|-------|------|---|--------------|-------|---|------|----|-------------|-------|-------------|------|------|-------|------|------|
| Transect 3 | | | | | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | 96.18 | | 96.44 | | | | 96.72 | | | | 96.94 | | | | 97.48 | | | | | | | |
| Disch (cfs) | | 5.00 | | 12.50 | | | | 25.50 | | | | 41.00 | | | | 102.50 | | | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Orig | Rev | |
| 1 | 0.00 | 100.46 | | | | | | | | | | | | | | | | | | | | | |
| 2 | 0.10 | 100.40 | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1.45 | 98.12 | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3.40 | 97.92 | | | | | | | | | | | | | | | | | | | | | |
| 5 | 3.70 | 97.02 | | | | | | | | | | | | | | | | | | | | 0.21 | 0.30 |
| 6 | 4.20 | 97.22 | | | | | | | | | | | | | | | | | | | | 0.31 | 0.21 |
| 7 | 4.80 | 96.93 | | | | | | | | | | | | | | | | 0.08 | 0.03 | | | 0.42 | 0.34 |
| 8 | 5.20 | 96.73 | | | | | | | | | | | | | | | | 0.20 | 0.18 | 0.20 | | 0.53 | 0.42 |
| 9 | 5.80 | 96.88 | | | | | | | | | | | | | | | | 0.40 | 0.37 | 0.44 | | 1.47 | 1.81 |
| 10 | 6.10 | 96.73 | | | | | | | | | | | | | | | | 0.92 | 0.82 | 0.94 | | 2.34 | 1.91 |
| 11 | 7.00 | 96.83 | | | | | | | | | | | | | | | | 0.98 | 0.87 | 1.03 | | 2.47 | 2.95 |
| 12 | 7.90 | 96.33 | | | | 1.36 | 1.15 | | 1.30 | | 1.98 | 3.52 | * | 2.22 | | 3.18 | 5.28 | * | 3.02 | | 9.66 | 5.06 | |
| 13 | 9.00 | 96.53 | | | | 0.00 | | | | | 0.50 | 0.40 | | 0.46 | | 0.22 | 0.63 | * | 0.23 | | 1.19 | 0.05 | |
| * | 14 | 10.00 | 96.18 | | | 0.26 | 0.21 | | 0.15 | | -0.09 | 0.36 | * | 0.27 | | 0.63 | 0.47 | | 0.37 | * | 0.78 | 0.63 | |
| * | 15 | 11.00 | 96.08 | 0.13 | 0.14 | 0.00 | 0.35 | * | 0.23 | * | 0.64 | 0.52 | | 0.29 | * | 0.22 | 0.66 | * | 0.33 | | 1.05 | 0.39 | |
| * | 16 | 12.00 | 96.13 | 0.16 | 0.04 | 0.00 | 0.43 | * | 0.18 | | 0.80 | 0.65 | | 0.56 | * | 0.95 | 0.83 | | 1.15 | | 1.32 | 4.21 | |
| * | 17 | 12.20 | 95.73 | 0.02 | 0.06 | 0.00 | 0.03 | | 0.09 | | 0.05 | 0.04 | | 0.13 | | 0.25 | 0.05 | | 0.15 | | 0.07 | 0.20 | |
| * | 18 | 12.50 | 96.43 | | | 0.00 | 0.08 | | 0.09 | | 0.19 | 0.15 | | 0.23 | | 0.42 | 0.21 | * | 0.39 | | 0.36 | 1.03 | |
| * | 19 | 13.50 | 95.93 | 0.09 | 0.07 | 0.00 | 0.22 | * | 0.17 | | 0.38 | 0.31 | | 0.30 | | 0.37 | 0.39 | | 0.42 | | 0.61 | 0.74 | |
| * | 20 | 14.50 | 96.33 | | | 1.34 | 1.11 | | 1.08 | | -0.05 | 1.99 | * | 0.09 | | 0.02 | 2.66 | * | 0.02 | | 4.45 | 0.00 | |
| | 21 | 15.00 | 96.08 | 1.44 | 2.49 | 3.18 | 2.61 | | 3.09 | | 3.03 | 3.72 | * | 3.34 | | 3.50 | 4.64 | * | 3.34 | | 7.25 | 3.12 | |
| | 22 | 15.80 | 95.63 | 1.85 | 2.37 | 3.39 | 2.78 | | 3.34 | | 3.71 | 3.69 | | 3.98 | | 4.39 | 4.41 | | 4.25 | | 6.53 | 4.50 | |
| | 23 | 16.50 | 96.63 | | | | | | | | 1.61 | 1.28 | * | 1.74 | | 2.40 | 2.11 | | 2.32 | | 4.11 | 3.77 | |
| * | 24 | 17.50 | 96.43 | | | | 0.63 | * | | | 2.57 | 2.06 | | 2.70 | | 3.87 | 3.20 | | 3.03 | * | 6.01 | 3.53 | |
| | 25 | 17.60 | 95.43 | 0.77 | 0.49 | 1.20 | 0.98 | | 1.33 | | 3.19 | 1.19 | * | 2.66 | | 3.62 | 1.38 | * | 4.00 | | 1.95 | 8.21 | |
| | 26 | 19.00 | 95.83 | 2.29 | 3.11 | 3.87 | 3.17 | | 3.79 | | 3.70 | 4.01 | | 4.03 | | 4.15 | 4.76 | | 3.99 | | 6.97 | 3.64 | |
| | 27 | 20.00 | 95.63 | 1.87 | 2.06 | 3.01 | 2.46 | | 2.24 | * | 1.15 | 3.05 | * | 2.19 | * | 2.82 | 3.57 | * | 2.04 | * | 5.15 | 1.67 | |
| | 28 | 21.00 | 95.63 | 0.34 | 0.12 | 0.54 | 0.44 | | 0.42 | | 0.60 | 0.55 | | 1.01 | * | 2.19 | 0.64 | * | 1.70 | * | 0.92 | 4.37 | |
| * | 29 | 22.00 | 95.73 | 0.23 | 0.06 | 0.00 | 0.30 | * | 0.17 | | 0.46 | 0.38 | | 0.36 | | 0.48 | 0.44 | | 0.55 | | 0.64 | 1.18 | |
| * | 30 | 23.00 | 95.43 | 0.10 | 0.04 | 0.00 | 0.13 | | 0.12 | | 0.19 | 0.16 | | 0.29 | | 0.61 | 0.18 | * | 0.49 | | 0.26 | 1.28 | |
| | 31 | 24.00 | 95.93 | 0.91 | 0.70 | 1.67 | 1.37 | | 1.75 | | 3.52 | 1.79 | * | 3.28 | | 4.53 | 2.15 | * | 4.73 | | 3.22 | 8.93 | |
| | 32 | 25.00 | 95.83 | 2.33 | 2.90 | 4.12 | 3.37 | | 4.09 | | 4.65 | 4.36 | | 4.89 | | 5.35 | 5.22 | | 5.23 | | 7.74 | 5.55 | |
| | 33 | 26.00 | 95.63 | 1.32 | 2.00 | 2.33 | 1.91 | | 2.33 | | 2.30 | 2.49 | | 2.40 | | 2.37 | 2.96 | * | 2.33 | | 4.36 | 2.04 | |
| * | 34 | 27.00 | 96.63 | | | | | | | | -0.05 | -0.04 | | 1.35 | * | 3.70 | -0.06 | * | 3.03 | | -0.12 | 5.17 | |
| | 35 | 28.00 | 96.43 | | | 0.11 | 0.09 | | 2.00 | * | 2.95 | 0.37 | * | 3.17 | | 4.23 | 0.57 | * | 4.10 | | 1.08 | 6.27 | |
| * | 36 | 28.50 | 96.33 | | | 0.05 | 0.04 | | 0.15 | | 2.80 | 0.12 | * | 0.43 | * | 0.82 | 0.17 | * | 0.82 | | 0.31 | 2.67 | |
| | 37 | 29.30 | 96.58 | | | | | | | | | 0.10 | | 0.04 | | 0.20 | 0.17 | | 0.15 | | 0.35 | 1.73 | |
| | 38 | 29.40 | 96.93 | | | | | | | | | | | | | | 0.03 | | 0.01 | | 0.10 | 0.10 | |
| | 39 | 30.65 | 99.00 | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | 5 | * | 3 | * | 10 | * | 6 | * | 15 | * | 4 | * | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.4 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | | | | | | | |
|---|----|-------|--------|-------|-------|--------------|-------|--------|---------------|-------|--------|---------------|-------|--------|--------|------|--------|------|--|
| Transect 4 | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 97.38 | | 97.78 | | | | 98.15 | | | | 98.43 | | | | 99.08 | | |
| Disch (cfs) | | | 5.00 | | 12.50 | | | | 25.50 | | | | 41.00 | | | | 102.50 | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * Rev | * Meas | Orig | * Rev | * Meas | Orig | * Rev | * Meas | Orig | Rev | | |
| | 1 | 0.00 | 99.50 | | | | | | | | | | | | | | | | |
| | 2 | 0.10 | 99.40 | | | | | | | | | | | | | | | | |
| | 3 | 1.10 | 98.87 | | | | | | | | | | | | | | -0.15 | 0.09 | |
| | 4 | 1.25 | 98.46 | | | | | | | | | | | | | | -0.53 | 0.18 | |
| * | 5 | 2.50 | 97.36 | -0.05 | 0.12 | -0.19 | -0.17 | 0.20 | -0.21 | -0.36 | 0.27 | 0.31 | -0.54 | * 0.30 | | | -0.89 | 0.30 | |
| * | 6 | 3.00 | 97.16 | -0.08 | 0.53 | -0.28 | -0.26 | 0.26 | -0.12 | -0.47 | * 0.13 | 0.08 | -0.62 | * 0.08 | | | -0.93 | 0.02 | |
| * | 7 | 3.50 | 97.41 | | | -0.22 | -0.20 | 0.21 | 0.19 | -0.40 | * 0.30 | 0.40 | -0.54 | 0.34 | | | -0.84 | 0.36 | |
| * | 8 | 4.00 | 97.26 | -0.12 | 0.43 | -0.40 | -0.36 | 0.37 | 0.22 | -0.66 | * 0.29 | 0.26 | -0.87 | * 0.23 | | | -1.29 | 0.12 | |
| * | 9 | 4.50 | 96.46 | 0.08 | 0.14 | 0.17 | 0.16 | 0.19 | -0.18 | 0.24 | 0.20 | 0.19 | 0.30 | 0.19 | | | 0.41 | 0.14 | |
| | 10 | 5.00 | 96.36 | 0.08 | 0.10 | 0.16 | 0.14 | 0.14 | 0.09 | 0.22 | 0.15 | 0.20 | 0.27 | 0.16 | | | 0.36 | 0.13 | |
| * | 11 | 5.50 | 96.36 | 0.32 | 0.34 | 0.64 | 0.59 | 0.48 | 0.50 | 0.90 | * 0.55 | 0.28 | 1.10 | * 0.56 | * | | 1.49 | 0.46 | |
| * | 12 | 6.00 | 96.36 | 0.51 | 0.18 | 1.00 | 0.92 | 0.34 | 0.44 | 1.39 | * 0.49 | 0.34 | 1.70 | * 0.57 | * | | 2.30 | 0.62 | |
| | 13 | 6.50 | 95.96 | 0.41 | 0.57 | 0.77 | 0.71 | 0.82 | 0.80 | 1.05 | * 0.94 | 0.98 | 1.26 | * 0.96 | | | 1.68 | 0.80 | |
| | 14 | 7.00 | 95.96 | 0.52 | 0.65 | 0.97 | 0.89 | 1.03 | 1.01 | 1.32 | * 1.25 | * 1.40 | 1.59 | 1.34 | | | 2.11 | 1.22 | |
| | 15 | 7.50 | 96.16 | 0.57 | 0.62 | 1.08 | 0.99 | 1.07 | 0.95 | 1.49 | * 1.40 | * 1.79 | 1.80 | 1.57 | | | 2.41 | 1.56 | |
| | 16 | 8.00 | 96.16 | 0.56 | 0.63 | 1.06 | 0.98 | 1.02 | 0.83 | 1.45 | * 1.28 | * 1.62 | 1.76 | 1.38 | | | 2.35 | 1.30 | |
| | 17 | 8.50 | 95.66 | 0.43 | 0.41 | 0.78 | 0.72 | 0.83 | 0.92 | 1.05 | 1.22 | * 1.58 | 1.25 | * 1.48 | | | 1.63 | 1.72 | |
| | 18 | 9.00 | 95.66 | 0.67 | 0.95 | 1.22 | 1.12 | 1.30 | 1.23 | 1.63 | * 1.43 | 1.45 | 1.94 | * 1.42 | | | 2.54 | 1.14 | |
| | 19 | 9.50 | 95.66 | 0.33 | 0.39 | 0.60 | 0.55 | 0.75 | 1.18 | 0.80 | * 1.08 | 1.12 | 0.96 | 1.28 | | | 1.25 | 1.43 | |
| | 20 | 10.00 | 95.66 | 0.39 | 0.44 | 0.72 | 0.66 | 0.84 | 1.10 | 0.97 | 1.18 | 1.32 | 1.16 | 1.39 | | | 1.52 | 1.52 | |
| | 21 | 10.50 | 96.76 | 0.24 | 0.34 | 0.52 | 0.48 | 0.65 | 1.00 | 0.75 | * 0.92 | 0.95 | 0.94 | 1.09 | | | 1.31 | 1.20 | |
| | 22 | 11.00 | 97.06 | 0.23 | 0.62 | 0.62 | 0.57 | 0.93 | * 1.90 | 0.97 | * 1.09 | * 0.78 | 1.26 | * 1.13 | * | | 1.84 | 0.99 | |
| | 23 | 11.50 | 97.26 | 0.19 | 0.69 | 0.70 | 0.64 | 1.08 | * 2.45 | 1.17 | * 1.32 | * 0.93 | 1.55 | * 1.40 | * | | 2.34 | 1.27 | |
| * | 24 | 12.00 | 97.16 | 0.04 | 0.07 | 0.10 | 0.09 | 0.32 | * 2.34 | 0.16 | * 0.90 | * 1.54 | 0.20 | * 1.68 | | | 0.30 | 4.35 | |
| | 25 | 12.50 | 96.16 | 0.20 | 0.14 | 0.39 | 0.36 | 0.50 | 1.06 | 0.54 | * 1.14 | 1.69 | 0.66 | * 1.85 | | | 0.89 | 3.73 | |
| | 26 | 13.00 | 96.16 | 0.52 | 0.63 | 0.99 | 0.91 | 1.15 | 1.50 | 1.37 | 1.59 | 1.75 | 1.66 | 1.85 | | | 2.22 | 1.97 | |
| | 27 | 13.50 | 96.31 | 0.59 | 0.71 | 1.15 | 1.06 | 1.25 | 1.39 | 1.61 | 1.69 | * 1.96 | 1.96 | 1.92 | | | 2.66 | 1.98 | |
| * | 28 | 14.00 | 96.56 | 0.14 | 0.12 | 0.29 | 0.27 | 0.52 | * 1.67 | 0.41 | * 1.42 | 2.61 | 0.51 | * 2.62 | | | 0.70 | 6.65 | |
| * | 29 | 14.50 | 96.46 | 0.01 | 0.04 | 0.02 | 0.02 | 0.27 | * 1.38 | 0.03 | * 0.99 | * 2.35 | 0.03 | * 2.22 | | | 0.05 | 8.09 | |
| * | 30 | 15.00 | 96.31 | 0.12 | 0.05 | 0.23 | 0.21 | 0.32 | 1.00 | 0.32 | * 1.08 | 2.01 | 0.39 | * 2.30 | | | 0.53 | 7.64 | |
| * | 31 | 15.50 | 96.31 | -0.12 | 0.08 | -0.23 | -0.21 | 0.24 | 0.28 | -0.32 | 0.46 | 0.77 | -0.39 | * 0.67 | | | -0.53 | 1.09 | |
| | 32 | 16.00 | 96.41 | 0.22 | 0.09 | 0.44 | 0.40 | 0.30 | 0.16 | 0.62 | * 0.65 | * 1.94 | 0.76 | * 1.03 | * | | 1.04 | 1.94 | |
| | 33 | 17.00 | 96.66 | 0.68 | 0.25 | 1.44 | 1.32 | 0.25 | * 0.12 | 2.09 | * 0.22 | 0.24 | 2.60 | * 0.18 | | | 3.62 | 0.11 | |
| * | 34 | 17.50 | 97.06 | 0.38 | 1.12 | 1.01 | 0.92 | 0.83 | 0.65 | 1.57 | * 0.57 | 0.24 | 2.03 | * 0.40 | | | 2.96 | 0.18 | |
| * | 35 | 18.00 | 97.16 | 0.83 | 0.31 | 0.00 | 2.37 | * 0.88 | * 3.42 | 4.21 | * 1.71 | * 1.52 | 5.52 | * 2.50 | * | | 8.20 | 4.11 | |
| * | 36 | 18.50 | 97.16 | -0.02 | 0.15 | -0.05 | -0.05 | 0.66 | * 3.03 | -0.09 | * 1.81 | * 3.40 | -0.12 | * 3.35 | | | -0.18 | 8.53 | |
| | 37 | 19.00 | 97.96 | | | 0.00 | | | 2.05 | 2.65 | * 2.11 | 1.55 | 4.60 | * 1.56 | | | 8.50 | 0.72 | |
| * | 38 | 19.50 | 97.86 | | | 0.23 | | | 1.92 | 3.08 | * 2.09 | 1.95 | 5.57 | * 1.97 | | | 10.54 | 1.44 | |
| * | 39 | 20.00 | 97.96 | | | | | | 1.09 | 1.49 | * 1.65 | * 3.55 | 3.23 | 3.08 | | | 6.57 | 7.98 | |
| * | 40 | 20.50 | 98.26 | | 0.22 | -0.45 | | 0.84 | * 2.30 | | * 2.07 | 3.13 | 2.10 | * 3.54 | | | 5.37 | 7.82 | |
| * | 41 | 21.00 | 97.86 | | | 0.70 | | | * 1.20 | 1.78 | * 1.49 | * 2.46 | 3.44 | * 2.52 | | | 6.64 | 5.44 | |
| * | 42 | 21.50 | 97.91 | | | 0.63 | | | * 1.23 | 2.08 | * 1.29 | 1.00 | 3.84 | * 1.01 | | | 7.31 | 0.52 | |
| * | 43 | 22.00 | 97.86 | | | 0.00 | | | -0.10 | -0.13 | 0.11 | -0.10 | -0.26 | 0.10 | | | -0.49 | 0.07 | |
| | 44 | 22.50 | 98.26 | | | | | | | | | 1.05 | 1.33 | * 1.02 | | | 3.74 | 1.96 | |
| | 45 | 23.00 | 98.36 | | | | | | | | | 1.08 | 1.30 | * 1.00 | | | 5.37 | 2.95 | |
| | 46 | 23.50 | 98.26 | | | | | | | | | 2.55 | 3.18 | * 2.47 | | | 10.22 | 4.76 | |
| * | 47 | 24.00 | 98.26 | | | 0.15 | | | | | | 0.49 | 2.86 | * 0.48 | | | 8.55 | 0.92 | |
| | 48 | 24.10 | 97.96 | | | | | | 0.68 | 1.08 | * 0.68 | 0.42 | 3.17 | * 0.42 | | | 6.75 | 0.14 | |
| | 49 | 24.80 | 98.26 | | | | | | | | | 1.21 | 1.53 | * 1.17 | | | 4.53 | 2.26 | |
| | 50 | 25.45 | 98.46 | | | | | | | | | | | | | | 2.81 | 1.88 | |
| | 51 | 26.60 | 99.41 | | | | | | | | | | | | | | | | |
| | 52 | 27.30 | 99.85 | | | | | | | | | | | | | | | | |
| | 53 | 27.40 | 100.04 | | | | | | | | | | | | | | | | |
| Total | | | | | | | 5 * | 13 * | | 31 * | 14 * | | 32 * | 6 * | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.5 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----|-------|-------|-------|------|--------------|-------|--------|-------|--------------|------|--------|---|-------------|--------|--------|---|------------|------------|-------|--|--|--|------|--|--|--|-----|--|--|--|
| Transect 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | | 93.36 | | | | 93.69 | | | | 94.01 | | | | 94.24 | | | | 94.76 | | | | | | | | | | | |
| Disch (cfs) | | | | 5.00 | | 12.50 | | | 25.50 | | | 41.00 | | | 102.50 | | | | | | | | | | | | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * Rev | * | Meas | Orig | * Rev | * | Meas | Orig | * Rev | * | Orig | Rev | | | | | | | | | | | | |
| | 1 | 0.00 | 96.59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 0.10 | 96.51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 1.90 | 95.13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 3.50 | 94.77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | 3.80 | 94.29 | | | | | | | | | | | | | | | | 0.01 | | | | | | | | | | | | |
| | 6 | 4.10 | 94.26 | | | | | | | | | | | | | | | | -0.05 0.18 | | | | | | | | | | | | |
| * | 7 | 5.10 | 94.06 | | | | | | | | | | | | | | | | -0.05 0.19 | | | | | | | | | | | | |
| * | 8 | 5.50 | 94.11 | | | | | | | | | | | | | | | | -0.06 0.24 | | | | | | | | | | | | |
| * | 9 | 6.00 | 93.86 | | | | | | | | | | | | | | | | -0.06 0.27 | | | | | | | | | | | | |
| * | 10 | 6.50 | 93.71 | | | | | | | | | | | | | | | | -0.08 2.09 | | | | | | | | | | | | |
| * | 11 | 7.00 | 93.81 | | | | | | | | | | | | | | | | -0.08 2.09 | | | | | | | | | | | | |
| * | 12 | 7.50 | 93.06 | -0.25 | 0.01 | -0.07 | -0.11 | 0.05 | | -0.11 | 0.09 | 0.18 | | 0.43 | 0.24 | 0.38 | | 0.19 0.21 | | | | | | | | | | | | | |
| * | 13 | 8.00 | 93.01 | -0.18 | 0.02 | -0.07 | -0.10 | 0.06 | | -0.13 | 0.04 | 0.15 | | 0.27 | 0.14 | 0.27 | | 0.02 0.03 | | | | | | | | | | | | | |
| * | 14 | 8.50 | 93.06 | -0.22 | 0.00 | 0.05 | -0.05 | 0.03 | | -0.08 | 0.18 | 0.17 | | 0.59 | 0.34 | * 0.46 | | 0.12 0.43 | | | | | | | | | | | | | |
| * | 15 | 9.00 | 92.91 | 0.14 | 0.30 | 0.51 | 0.19 | * 0.36 | | -0.22 | 0.23 | 0.41 | | 0.58 | 0.23 | * 0.42 | | 0.29 0.68 | | | | | | | | | | | | | |
| * | 16 | 9.50 | 92.91 | 0.59 | 1.00 | 1.13 | 0.69 | * 0.96 | | 0.74 | 0.73 | 0.90 | | 0.92 | 0.66 | * 0.84 | | 0.29 0.68 | | | | | | | | | | | | | |
| * | 17 | 10.00 | 93.06 | 0.89 | 1.01 | 1.61 | 1.14 | * 1.3 | | 1.87 | 1.29 | * 1.53 | | 1.41 | 1.24 | 1.66 | | 0.59 1.80 | | | | | | | | | | | | | |
| * | 18 | 10.50 | 92.36 | 0.37 | 0.62 | 1.25 | 0.84 | * 1.18 | | 1.96 | 1.50 | * 1.90 | | 2.32 | 1.93 | 2.53 | | 1.61 4.09 | | | | | | | | | | | | | |
| * | 19 | 11.00 | 92.36 | 0.15 | 0.35 | 0.95 | 0.64 | * 1.01 | | 2.41 | 1.83 | * 2.24 | | 3.89 | 3.25 | 3.68 | | 5.01 8.91 | | | | | | | | | | | | | |
| * | 20 | 11.50 | 92.56 | 0.80 | 0.23 | -0.05 | 2.05 | * 0.75 | * | 1.72 | 3.38 | * 1.83 | | 3.00 | 3.99 | * 3.22 | | 2.64 8.86 | | | | | | | | | | | | | |
| * | 21 | 12.00 | 93.06 | 0.00 | 0.85 | 0.02 | 0.06 | 1.64 | * | 2.58 | 0.92 | * 2.67 | | 3.40 | 4.99 | * 3.58 | | 66.66 5.84 | | | | | | | | | | | | | |
| * | 22 | 12.50 | 93.36 | | 0.28 | 0.00 | 0.52 | * 0.62 | * | 0.00 | 0.99 | * 1.12 | * | 1.53 | 1.22 | * 1.62 | | 0.86 3.02 | | | | | | | | | | | | | |
| * | 23 | 13.00 | 94.06 | | | 0.00 | | | * | 2.16 | | | * | 4.53 | 3.59 | * 1.12 | * | 6.95 2.74 | | | | | | | | | | | | | |
| * | 24 | 13.50 | 92.86 | 0.09 | 0.17 | 0.37 | 0.24 | 0.4 | | 0.00 | 0.48 | * 0.75 | * | 0.83 | 0.66 | 1.11 | * | 0.64 2.16 | | | | | | | | | | | | | |
| * | 25 | 14.00 | 92.86 | 0.13 | 0.21 | 0.66 | 0.36 | * 0.5 | | 0.59 | 0.75 | 0.96 | * | 1.73 | 1.08 | * 1.43 | | 1.12 2.88 | | | | | | | | | | | | | |
| * | 26 | 14.50 | 92.46 | 0.11 | 0.19 | 0.50 | 0.25 | * 0.34 | | 0.26 | 0.42 | 0.53 | * | 0.95 | 0.52 | * 0.68 | * | 0.41 1.03 | | | | | | | | | | | | | |
| * | 27 | 15.00 | 92.86 | 0.01 | 0.09 | 0.15 | 0.11 | 0.38 | * | 1.30 | 0.80 | * 1.16 | | 2.76 | 2.61 | 2.39 | | 13.17 8.92 | | | | | | | | | | | | | |
| * | 28 | 15.50 | 91.96 | 0.03 | 0.09 | 0.27 | 0.23 | 0.36 | | 2.47 | 1.14 | * 1.09 | * | 2.64 | 2.94 | 2.18 | | 9.36 7.77 | | | | | | | | | | | | | |
| * | 29 | 16.00 | 92.36 | 0.32 | 0.53 | 1.34 | 0.91 | * 1.27 | | 2.52 | 1.91 | * 2.43 | | 3.29 | 2.76 | 3.65 | | 2.86 7.39 | | | | | | | | | | | | | |
| * | 30 | 16.50 | 92.61 | 0.43 | 0.70 | 1.60 | 1.03 | * 1.44 | | 2.26 | 1.92 | 2.44 | | 3.27 | 2.56 | * 3.37 | | 2.28 5.81 | | | | | | | | | | | | | |
| * | 31 | 17.00 | 92.61 | 0.55 | 0.92 | 1.65 | 1.11 | * 1.55 | | 2.30 | 1.78 | * 2.25 | | 2.61 | 2.16 | 2.81 | | 1.59 3.98 | | | | | | | | | | | | | |
| * | 32 | 17.50 | 92.06 | 0.61 | 1.02 | 1.83 | 1.17 | * 1.63 | | 2.08 | 1.81 | 2.28 | | 2.76 | 2.13 | * 2.77 | | 1.50 3.73 | | | | | | | | | | | | | |
| * | 33 | 18.00 | 92.46 | 0.35 | 0.58 | 1.35 | 0.86 | * 1.2 | | 1.82 | 1.60 | 2.04 | | 2.79 | 2.14 | * 2.82 | | 1.92 4.88 | | | | | | | | | | | | | |
| * | 34 | 18.50 | 92.56 | 0.35 | 0.58 | 1.19 | 0.84 | * 1.17 | | 2.27 | 1.56 | * 1.97 | | 2.33 | 2.06 | 2.71 | | 1.82 4.63 | | | | | | | | | | | | | |
| * | 35 | 19.00 | 92.76 | 0.39 | 0.65 | 1.41 | 0.93 | * 1.3 | | 2.12 | 1.70 | 2.16 | | 2.77 | 2.24 | 2.94 | | 1.95 4.95 | | | | | | | | | | | | | |
| * | 36 | 19.50 | 92.96 | 0.26 | 0.43 | 1.13 | 0.73 | * 1.01 | | 1.75 | 1.51 | 1.92 | | 2.77 | 2.16 | * 2.86 | | 2.21 5.69 | | | | | | | | | | | | | |
| * | 37 | 20.00 | 92.66 | 0.10 | 0.16 | 0.58 | 0.44 | 0.61 | | 2.15 | 1.27 | * 1.65 | * | 2.38 | 2.29 | 3.11 | * | 3.63 9.77 | | | | | | | | | | | | | |
| * | 38 | 20.50 | 93.26 | 0.30 | 0.49 | 1.14 | 0.68 | * 0.95 | | 1.20 | 1.22 | 1.55 | * | 2.24 | 1.59 | * 2.08 | | 1.34 3.40 | | | | | | | | | | | | | |
| * | 39 | 21.00 | 94.74 | | | | | | | | | | | | | | | | 0.07 0.21 | | | | | | | | | | | | |
| * | 40 | 21.50 | 94.83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| * | 41 | 22.60 | 93.96 | | | | | | | 0.20 | | | | | 0.67 | * | | | 0.70 0.49 | | | | | | | | | | | | |
| * | 42 | 23.00 | 94.47 | | | | | | | | | | | | | | | | 0.36 0.88 | | | | | | | | | | | | |
| * | 43 | 23.50 | 94.83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| * | 44 | 24.00 | 94.82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| * | 45 | 24.50 | 91.76 | 1.26 | | | | 2.00 | * | | 2.69 | * | | | 2.89 | * | | | 1.69 0.63 | | | | | | | | | | | | |
| * | 46 | 25.00 | 91.76 | 1.26 | | | | 2.00 | * | | 2.69 | * | | | 2.89 | * | | | 1.69 0.63 | | | | | | | | | | | | |
| * | 47 | 25.50 | 94.36 | | | | | | | | | | | | | | | | 0.44 1.09 | | | | | | | | | | | | |
| * | 48 | 26.00 | 94.21 | | | | | | | | | | | | 0.15 | | | | 0.55 1.17 | | | | | | | | | | | | |
| * | 49 | 26.50 | 94.21 | | | | | | | | | | | | 0.15 | | | | 0.55 1.17 | | | | | | | | | | | | |
| * | 50 | 27.20 | 94.26 | | | | | | | | | | | | | | | | 0.51 1.26 | | | | | | | | | | | | |
| * | 51 | 28.30 | 95.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| * | 52 | 29.30 | 95.65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| * | 53 | 30.80 | 96.88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| * | 54 | 31.06 | 97.48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | 20 * | | | | 4 * | | | | 16 * | | | | 8 * | | | | 17 * | | | | 4 * | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.6 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | | | | | | | | | |
|---|------|-------|-------|------|-------|-------------|-------|------|-------|-------------|-------------|-------|------|-------------|-------------|-------------|------|------|-----------|------------|------------|
| Transect 6 | | | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 93.53 | | | 93.58 | | | 94.16 | | | 94.39 | | | 94.92 | | | | | | |
| Disch (cfs) | | | 5.00 | | 12.50 | | 25.50 | | 41.00 | | 102.50 | | | | | | | | | | |
| Rv | Pt | Sta | Orig | Rev | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | | |
| 1 | 0.00 | 97.81 | | | | | | | | | | | | | | | | | | | |
| 2 | 0.10 | 97.69 | | | | | | | | | | | | | | | | | | | |
| 3 | 1.10 | 96.60 | | | | | | | | | | | | | | | | | | | |
| 4 | 3.20 | 95.99 | | | | | | | | | | | | | | | | | | | |
| 5 | 8.40 | 95.65 | | | | | | | | | | | | | | | | | | | |
| 6 | 9.40 | 96.65 | | | | | | | | | | | | | | | | | | | |
| 7 | 9.85 | 94.41 | | | | | | | | | | | | | | | | | | | |
| * | 8 | 10.00 | 94.31 | | | | | | | | | | | | | | | 2.5 | 0.24 | | |
| * | 9 | 11.00 | 94.31 | | | | | | | | | | | | | | | 1.14 | * 0.09 | 2.82 0.27 | |
| * | 10 | 12.00 | 94.26 | | | | | | | | | | | | | | | 1.14 | * 0.09 | 2.82 0.27 | |
| | 11 | 13.00 | 93.76 | | | | | | | | | | | | | | | 1.58 | * 0.09 | 2.98 0.22 | |
| | 12 | 14.00 | 94.61 | | | | | | | | | | | | | | | | | 7.65 8.29 | |
| | 13 | 15.00 | 94.01 | | | | | | | | | | | | | | | | | 0.26 0.33 | |
| | 14 | 15.50 | 92.61 | 0.53 | 0.63 | 0.58 | 0.48 | 0.51 | | 0.20 | 0.23 | 0.23 | | 0.42 | 0.42 | 0.39 | | | 0.91 0.97 | | |
| | 15 | 16.00 | 92.61 | 0.06 | 0.09 | 0.24 | 0.16 | 0.19 | | 0.26 | 0.39 | 0.38 | | 0.35 | 0.30 | 0.30 | | | 0.13 0.17 | | |
| | 16 | 16.50 | 92.61 | 0.13 | 0.18 | 0.29 | 0.28 | 0.32 | | 0.41 | 0.44 | 0.44 | | 0.52 | 0.53 | 0.52 | | | 0.53 0.62 | | |
| | 17 | 17.00 | 92.61 | 1.56 | 1.85 | 1.10 | 1.58 | * | 1.67 | * | 3.07 | 1.38 | * | 1.37 | * | 0.69 | 1.12 | * | 1.15 | * | 0.52 0.71 |
| | 18 | 17.50 | 92.61 | 0.10 | 0.17 | 0.49 | 0.51 | 0.63 | | 1.77 | 1.60 | 1.60 | | 2.70 | 3.04 | 2.82 | | | | 7.27 7.41 | |
| * | 19 | 18.00 | 92.96 | 0.15 | 0.25 | 0.72 | 0.76 | 0.87 | | 2.71 | 2.37 | 2.07 | * | 3.92 | 4.48 | 3.53 | | | | 10.66 8.59 | |
| | 20 | 18.50 | 93.46 | 0.79 | 1.16 | 2.16 | 1.89 | 2.19 | | 2.43 | 3.21 | * | 3.19 | * | 4.45 | 4.06 | 3.92 | | | 4.44 5.11 | |
| | 21 | 19.00 | 93.46 | 2.36 | 2.94 | 2.65 | 2.70 | 2.90 | | 2.72 | 2.59 | 2.56 | | 2.06 | 2.24 | 2.25 | | | | 1.17 1.54 | |
| * | 22 | 19.50 | 93.41 | 7.73 | 0.58 | 3.86 | 4.42 | 1.52 | * | 3.34 | 2.47 | * | 2.88 | | 1.20 | 1.49 | * | 4.21 | * | 0.39 7.67 | |
| * | 23 | 20.00 | 93.21 | 6.23 | 0.49 | 3.36 | 3.60 | 1.27 | * | 2.37 | 2.03 | 2.35 | | 1.07 | 1.23 | 3.40 | * | | | 0.33 6.02 | |
| | 24 | 20.50 | 93.11 | 1.49 | 2.03 | 2.84 | 2.52 | 2.82 | | 2.55 | 3.28 | * | 3.25 | * | 3.75 | 3.47 | 3.41 | | | 2.69 3.28 | |
| | 25 | 21.00 | 92.26 | 0.47 | 0.73 | 1.54 | 1.42 | 1.68 | | 2.48 | 2.90 | 2.88 | | 4.23 | 4.13 | 3.94 | | | | 5.68 6.31 | |
| | 26 | 21.50 | 92.21 | 0.28 | 0.45 | 1.22 | 0.97 | * | 1.17 | | 1.36 | 2.19 | * | 2.18 | * | 4.07 | 3.34 | 3.15 | * | 5.23 5.64 | |
| | 27 | 22.00 | 93.01 | 0.43 | 0.66 | 1.50 | 1.23 | 1.44 | | 1.55 | 2.37 | * | 2.36 | * | 3.88 | 3.27 | 3.13 | | | 4.22 4.71 | |
| | 28 | 22.50 | 93.06 | 0.36 | 0.54 | 1.15 | 0.97 | 1.14 | | 1.29 | 1.83 | * | 1.82 | * | 2.81 | 2.47 | 2.37 | | | 3.07 3.45 | |
| | 29 | 23.00 | 92.41 | 0.26 | 0.39 | 0.75 | 0.71 | 0.84 | | 1.23 | 1.35 | 1.34 | | 1.82 | 1.84 | 1.76 | | | | 2.30 2.60 | |
| | 30 | 23.50 | 92.21 | 0.45 | 0.61 | 0.69 | 0.73 | 0.81 | | 1.02 | 0.90 | 0.89 | | 0.82 | 0.93 | 0.92 | | | | 0.68 0.84 | |
| | 31 | 24.00 | 92.26 | 0.21 | 0.31 | 0.55 | 0.50 | 0.57 | | 0.68 | 0.84 | 0.83 | | 1.11 | 1.05 | 1.02 | | | | 1.14 1.31 | |
| | 32 | 24.50 | 92.21 | 0.09 | 0.14 | 0.44 | 0.32 | 0.39 | | 0.38 | 0.76 | * | 0.76 | * | 1.66 | 1.21 | * | 1.14 | * | 2.05 2.17 | |
| | 33 | 25.00 | 92.51 | 0.06 | 0.09 | 0.17 | 0.22 | 0.27 | | 0.97 | 0.54 | * | 0.54 | * | 0.59 | 0.86 | * | 0.82 | * | 1.49 1.62 | |
| | 34 | 25.50 | 92.51 | 0.02 | 0.03 | 0.09 | 0.11 | 0.14 | | 0.57 | 0.37 | 0.37 | | 0.55 | 0.74 | 0.68 | | | | 1.95 1.97 | |
| | 35 | 26.00 | 92.66 | 0.01 | 0.01 | 0.09 | 0.07 | 0.09 | | 0.25 | 0.43 | 0.43 | | 1.63 | 1.29 | * | 1.14 | * | | 7.47 6.48 | |
| | 36 | 26.50 | 92.51 | 0.05 | 0.08 | 0.23 | 0.17 | 0.20 | | 0.18 | 0.36 | 0.36 | | 0.74 | 0.54 | 0.51 | * | | | 0.81 0.88 | |
| | 37 | 27.00 | 92.51 | 0.09 | 0.15 | 0.36 | 0.33 | 0.39 | | 0.61 | 0.74 | 0.74 | | 1.20 | 1.15 | 1.08 | | | | 1.82 1.97 | |
| | 38 | 27.50 | 92.51 | 1.18 | 1.48 | 1.35 | 1.45 | 1.56 | | 1.72 | 1.47 | 1.45 | | 1.14 | 1.32 | 1.32 | | | | 0.74 0.96 | |
| | 39 | 28.00 | 92.51 | 0.35 | 0.44 | 0.38 | 0.42 | 0.45 | | 0.53 | 0.42 | 0.42 | | 0.31 | 0.37 | 0.37 | | | | 0.21 0.27 | |
| | 40 | 28.50 | 92.61 | 0.04 | 0.07 | 0.12 | 0.15 | 0.17 | | 0.49 | 0.32 | 0.31 | | 0.35 | 0.47 | 0.45 | | | | 0.70 0.78 | |
| | 41 | 29.00 | 92.61 | 0.03 | 0.06 | 0.08 | 0.14 | 0.17 | | 1.30 | 0.37 | * | 0.37 | * | 0.29 | 0.61 | * | 0.58 | * | 1.14 1.24 | |
| * | 42 | 29.50 | 93.21 | 0.00 | 0.06 | 0.04 | 0.06 | 0.31 | * | 0.26 | 0.51 | * | 0.97 | * | 2.41 | 1.97 | 1.98 | | | | 18.74 6.88 |
| | 43 | 30.00 | 93.61 | | | 1.35 | 1.25 | 1.35 | | 1.05 | 1.23 | 1.21 | | 1.11 | 1.08 | 1.08 | | | | 0.58 0.76 | |
| * | 44 | 30.50 | 93.81 | | | 0.00 | 5.69 | * | 0.20 | 1.47 | 1.43 | 0.49 | * | 0.47 | 0.50 | 0.85 | * | | | 0.05 2.15 | |
| | 45 | 31.00 | 93.91 | | | | | | | 1.85 | 1.94 | 1.92 | | 1.47 | 1.52 | 1.54 | | | | 0.65 0.87 | |
| | 46 | 32.00 | 93.66 | | | 0.30 | 0.26 | 0.30 | | 0.26 | 0.34 | 0.34 | | 0.39 | 0.36 | 0.35 | | | | 0.27 0.33 | |
| * | 47 | 33.00 | 94.31 | | | | | | | | | | | | 0.16 | 0.09 | | | | | 0.40 0.27 |
| * | 48 | 34.00 | 94.26 | | | | | | | | | | | | 0.22 | * 0.09 | | | | | 0.42 0.22 |
| * | 49 | 34.50 | 94.36 | | | | | | | | | | | | 0.08 | 0.07 | | | | | 0.37 0.41 |
| | 50 | 35.70 | 94.41 | | | | | | | | | | | | | | | | | | 0.35 0.39 |
| | 51 | 36.60 | 94.48 | | | | | | | | | | | | | | | | | | 0.32 0.35 |
| | 52 | 36.80 | 95.05 | | | | | | | | | | | | | | | | | | |
| | 53 | 39.40 | 95.36 | | | | | | | | | | | | | | | | | | |
| | 54 | 39.91 | 96.70 | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | 3 * | 4 * | | | 11 * | 12 * | | | 11 * | 11 * | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.7 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | | | | |
|---|-------|-------|-------|------|------|-------------|------|--------|-------------|------|--------|-------------|------|--------|--------|------|
| Transect 7 | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 93.99 | | | 94.26 | | | 94.52 | | | 94.72 | | | 95.18 | |
| Disch (cfs) | | | 5.00 | | | 12.50 | | | 25.50 | | | 41.00 | | | 102.50 | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Orig | Rev |
| 1 | 0.00 | 97.91 | | | | | | | | | | | | | | |
| 2 | 0.10 | 97.80 | | | | | | | | | | | | | | |
| 3 | 2.00 | 96.94 | | | | | | | | | | | | | | |
| 4 | 3.30 | 94.99 | | | | | | | | | | | | | | |
| 5 | 4.80 | 94.72 | | | | | | | | | | | | | 0.18 | 0.22 |
| 6 | 5.00 | 94.22 | | | | 0.00 | 0.11 | 0.11 | | 0.42 | * 0.42 | 0.59 | 0.54 | 0.56 | 0.32 | 0.40 |
| 7 | 6.00 | 93.92 | | 0.00 | 0.00 | 0.00 | 0.03 | 0.03 | 0.15 | 0.15 | 0.15 | 0.83 | 0.39 | * 0.40 | 1.77 | 2.19 |
| 8 | 7.00 | 93.82 | | 0.02 | 0.03 | 0.14 | 0.15 | 0.18 | 0.89 | 0.67 | * 0.61 | 1.49 | 1.62 | 1.32 | 6.76 | 4.87 |
| 9 | 8.00 | 93.97 | | 0.50 | 0.58 | 0.91 | 0.81 | 0.81 | 0.74 | 0.98 | * 0.98 | 1.34 | 1.02 | * 1.05 | 0.83 | 1.00 |
| 10 | 9.00 | 94.17 | | | | 0.71 | 0.69 | 0.71 | 0.91 | 0.95 | 0.94 | 1.21 | 1.07 | 1.07 | 1.02 | 1.15 |
| 11 | 10.00 | 93.82 | | 1.72 | 1.65 | 0.84 | 0.83 | 0.80 | 0.00 | 0.39 | * 0.42 | 0.24 | 0.22 | 0.26 | 0.05 | 0.09 |
| 12 | 11.00 | 93.77 | | 0.79 | 0.90 | 0.57 | 0.67 | 0.68 | 0.78 | 0.49 | * 0.50 | 0.30 | 0.36 | 0.39 | 0.16 | 0.20 |
| 13 | 12.00 | 94.32 | | | | | | | 0.89 | 0.88 | 0.89 | 0.88 | 0.80 | 0.84 | 0.50 | 0.63 |
| 14 | 12.50 | 93.22 | | 0.64 | 0.73 | 1.12 | 0.99 | 0.98 | 0.84 | 1.15 | * 1.15 | 1.57 | 1.17 | * 1.21 | 0.91 | 1.12 |
| 15 | 13.00 | 93.22 | | 0.66 | 0.82 | 1.36 | 1.28 | 1.30 | 1.53 | 1.77 | 1.75 | 2.43 | 2.02 | 2.01 | 1.95 | 2.21 |
| 16 | 13.50 | 93.12 | | 0.47 | 0.62 | 1.12 | 1.13 | 1.19 | 1.98 | 1.87 | 1.83 | 2.56 | 2.41 | 2.31 | 2.93 | 3.04 |
| 17 | 14.00 | 93.42 | | 1.07 | 1.30 | 1.78 | 1.75 | 1.79 | 2.12 | 2.15 | 2.13 | 2.50 | 2.25 | 2.28 | 1.86 | 2.16 |
| 18 | 14.50 | 93.12 | | 0.95 | 1.02 | 1.01 | 0.95 | 0.93 | 0.69 | 0.79 | 0.81 | 0.77 | 0.64 | 0.69 | 0.32 | 0.44 |
| 19 | 15.00 | 93.22 | | 0.48 | 0.56 | 0.53 | 0.56 | 0.56 | 0.63 | 0.52 | 0.53 | 0.45 | 0.46 | 0.48 | 0.27 | 0.33 |
| 20 | 15.50 | 93.62 | | 0.13 | 0.18 | 0.43 | 0.41 | 0.43 | 0.72 | 0.81 | 0.79 | 1.41 | 1.19 | 1.12 | 1.84 | 1.83 |
| 21 | 16.00 | 93.52 | | 0.40 | 0.55 | 0.99 | 1.04 | 1.11 | 2.16 | 1.83 | 1.78 | 2.41 | 2.43 | 2.30 | 3.18 | 3.18 |
| 22 | 16.50 | 93.52 | | 1.12 | 1.36 | 1.72 | 1.73 | 1.77 | 2.12 | 2.03 | 2.02 | 2.21 | 2.07 | 2.09 | 1.61 | 1.88 |
| 23 | 17.00 | 93.42 | | 1.32 | 1.56 | 1.92 | 1.89 | 1.91 | 2.06 | 2.09 | 2.09 | 2.27 | 2.05 | 2.10 | 1.48 | 1.78 |
| 24 | 17.50 | 93.32 | | 1.57 | 1.77 | 2.02 | 1.93 | 1.92 | 1.71 | 1.88 | 1.90 | 1.99 | 1.70 | 1.79 | 1.05 | 1.34 |
| 25 | 18.00 | 92.97 | | 1.59 | 1.64 | 1.93 | 1.64 | 1.58 | 0.93 | 1.40 | * 1.43 | 1.65 | 1.16 | * 1.26 | 0.60 | 0.84 |
| 26 | 18.50 | 92.92 | | 0.55 | 0.66 | 0.86 | 0.86 | 0.88 | 1.08 | 1.03 | 1.02 | 1.13 | 1.06 | 1.07 | 0.84 | 0.98 |
| 27 | 19.00 | 92.97 | | 0.57 | 0.75 | 1.15 | 1.18 | 1.23 | 1.91 | 1.73 | 1.70 | 2.11 | 2.04 | 1.99 | 2.12 | 2.27 |
| 28 | 19.50 | 93.22 | | 1.15 | 1.20 | 1.05 | 1.00 | 0.97 | 0.68 | 0.75 | 0.77 | 0.66 | 0.57 | 0.62 | 0.25 | 0.35 |
| 29 | 20.00 | 93.52 | | 4.72 | 0.05 | 1.58 | 0.91 | * 0.21 | 0.05 | 0.21 | 0.62 | * 0.20 | 0.07 | 1.19 | * 0.01 | 3.50 |
| 30 | 20.50 | 93.82 | | 0.02 | 0.05 | 0.05 | 0.16 | 0.21 | 1.77 | 0.72 | * 0.58 | * 1.19 | 1.84 | * 1.07 | 8.36 | 2.90 |
| 31 | 21.00 | 93.52 | | 0.98 | 1.24 | 1.51 | 1.64 | 1.70 | 2.60 | 2.04 | * 2.02 | * 2.05 | 2.17 | 2.16 | 1.83 | 2.04 |
| 32 | 21.50 | 93.82 | | 1.08 | 1.33 | 2.02 | 1.96 | 2.00 | 2.45 | 2.59 | 2.56 | 3.26 | 2.86 | 2.86 | 2.60 | 2.97 |
| 33 | 22.00 | 93.87 | | 0.84 | 0.99 | 1.71 | 1.49 | 1.49 | 1.37 | 1.93 | * 1.92 | * 2.88 | 2.11 | * 2.15 | 1.87 | 2.24 |
| 34 | 22.50 | 93.72 | | 1.66 | 1.71 | 1.34 | 1.30 | 1.25 | 0.84 | 0.89 | 0.92 | 0.73 | 0.64 | 0.71 | 0.25 | 0.36 |
| 35 | 23.00 | 93.07 | | 0.19 | 0.25 | 0.46 | 0.48 | 0.51 | 0.93 | 0.82 | 0.80 | 1.11 | 1.09 | 1.03 | 1.40 | 1.41 |
| 36 | 23.50 | 93.32 | | 0.15 | 0.23 | 0.46 | 0.54 | 0.60 | 1.94 | 1.22 | * 1.16 | * 1.58 | 1.92 | * 1.72 | 3.50 | 3.07 |
| 37 | 24.00 | 93.02 | | 0.73 | 0.93 | 1.35 | 1.38 | 1.43 | 2.07 | 1.89 | 1.87 | 2.22 | 2.14 | 2.11 | 2.03 | 2.24 |
| 38 | 24.50 | 93.22 | | 0.57 | 0.75 | 1.22 | 1.26 | 1.32 | 2.15 | 1.93 | 1.89 | 2.43 | 2.36 | 2.29 | 2.61 | 2.75 |
| 39 | 25.00 | 93.32 | | 1.10 | 1.37 | | 1.62 | * 1.68 | 1.84 | 1.82 | 1.84 | 1.98 | 1.81 | 1.85 | 1.34 | 1.56 |
| 40 | 25.50 | 94.42 | | | | | | | | 1.03 | * 1.04 | 2.17 | 1.98 | 2.06 | 2.35 | 2.92 |
| 41 | 26.50 | 94.62 | | | | | | | 0.00 | | | 0.10 | 0.09 | 0.10 | 0.15 | 0.18 |
| 42 | 27.50 | 94.57 | | | | | | | | | | | | | 0.06 | 0.08 |
| 43 | 28.00 | 95.02 | | | | | | | | | | | | | 1.25 | 1.55 |
| 44 | 28.50 | 94.42 | | | | | | | 0.00 | 0.55 | * 0.55 | 1.15 | 1.05 | 1.09 | 1.72 | 2.14 |
| 45 | 29.00 | 94.52 | | | | | | | 1.33 | 1.21 | 1.26 | 2.54 | 2.37 | 2.08 | 7.17 | 4.41 |
| 46 | 30.00 | 94.12 | | | | | 0.34 | * 0.58 | 1.20 | 1.15 | 1.29 | | | | 0.63 | 0.84 |
| 47 | 31.00 | 94.84 | | | | | | | | | | | | | 0.98 | 1.31 |
| 48 | 32.30 | 94.52 | | | | | | | | | | | 0.69 | * 0.78 | * 0.77 | 1.03 |
| 49 | 32.95 | 94.72 | | | | | | | | | | | 0.01 | 0.01 | 0.77 | 1.03 |
| 50 | 34.20 | 94.72 | | | | | | | | | | | 0.01 | 0.01 | 0.77 | 1.03 |
| 51 | 34.30 | 96.96 | | | | | | | | | | | | | | |
| 52 | 35.70 | 97.37 | | | | | | | | | | | | | | |
| 53 | 35.85 | 97.50 | | | | | | | | | | | | | | |
| Total | | | | | | | 3 * | 3 * | | 13 * | 14 * | | 8 * | 8 * | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.8 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | | | | | | | |
|---|----|-------|-------|-------|------|-------------|-------|-------|------|-------------|------|--------|-------|--------------|-------|--------|---|-------|------|
| Transect 8 | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | | 94.17 | | | 94.49 | | | 94.79 | | | 95.00 | | | 95.47 | | | |
| Disch (cfs) | | | | 5.00 | | 12.50 | | 25.50 | | 41.00 | | 102.50 | | | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * Rev | * | Meas | Orig | * Rev | * | Meas | Orig | * Rev | * | Orig | Rev |
| | 1 | 0.00 | 97.30 | | | | | | | | | | | | | | | | |
| | 2 | 0.10 | 97.25 | | | | | | | | | | | | | | | | |
| | 3 | 1.20 | 96.75 | | | | | | | | | | | | | | | | |
| | 4 | 1.40 | 96.18 | | | | | | | | | | | | | | | | |
| | 5 | 4.60 | 95.76 | | | | | | | | | | | | | | | | |
| | 6 | 4.70 | 95.02 | | | | | | | | | | | | | | | 0.31 | 0.28 |
| | 7 | 6.00 | 95.10 | | | | | | | | | | | | | | | 0.27 | 0.24 |
| | 8 | 7.00 | 95.06 | | | | | | | | | | | | | | | 0.29 | 0.26 |
| * | 9 | 8.00 | 94.37 | | | 0.00 | 1.23 | * | 0.16 | 0.38 | 0.31 | 0.29 | | -0.38 | -0.34 | 0.42 | | -1.17 | 0.74 |
| * | 10 | 9.00 | 93.72 | 0.26 | 0.18 | 0.12 | 0.15 | | 0.14 | 0.13 | 0.05 | 0.10 | | -0.07 | -0.03 | 0.08 | | -0.13 | 0.04 |
| * | 11 | 10.00 | 94.07 | 0.13 | 0.02 | 0.03 | 0.07 | | 0.04 | 0.12 | 0.02 | 0.07 | | -0.07 | -0.02 | 0.10 | | -0.07 | 0.16 |
| | 12 | 11.00 | 93.42 | 0.01 | 0.01 | 0.02 | 0.02 | | 0.02 | 0.13 | 0.08 | 0.08 | | 0.12 | 0.16 | 0.16 | | 0.48 | 0.55 |
| * | 13 | 12.00 | 93.02 | 0.00 | 0.02 | 0.03 | 0.02 | | 0.08 | 0.11 | 0.16 | 0.25 | | 0.66 | 0.55 | 0.52 | | 4.32 | 1.89 |
| * | 14 | 12.50 | 92.92 | 0.00 | 0.01 | 0.03 | 0.02 | | 0.07 | 0.09 | 0.17 | 0.27 | | 0.86 | 0.63 | * 0.64 | * | 6.03 | 2.86 |
| | 15 | 13.00 | 92.87 | 0.01 | 0.01 | 0.10 | 0.07 | | 0.07 | 0.16 | 0.29 | 0.29 | | 0.93 | 0.69 | * 0.70 | * | 2.77 | 3.31 |
| | 16 | 13.50 | 92.72 | 0.02 | 0.02 | 0.13 | 0.13 | | 0.13 | 0.57 | 0.50 | 0.49 | | 1.02 | 1.12 | 1.11 | | 4.05 | 4.71 |
| | 17 | 14.00 | 92.72 | 0.17 | 0.16 | 0.45 | 0.42 | | 0.42 | 0.74 | 0.82 | 0.81 | | 1.26 | 1.21 | 1.21 | | 1.97 | 2.28 |
| | 18 | 14.50 | 93.07 | 0.31 | 0.30 | 0.80 | 0.75 | | 0.75 | 1.32 | 1.45 | 1.44 | | 2.18 | 2.12 | 2.12 | | 3.37 | 3.90 |
| | 19 | 15.00 | 93.37 | 0.44 | 0.43 | 1.09 | 0.99 | | 1.00 | 1.55 | 1.80 | 1.79 | | 2.69 | 2.53 | 2.54 | | 3.72 | 4.31 |
| | 20 | 15.50 | 93.32 | 1.14 | 1.14 | 1.67 | 1.57 | | 1.60 | 1.81 | 1.96 | 1.95 | | 2.19 | 2.14 | 2.14 | | 1.93 | 2.22 |
| | 21 | 16.00 | 92.27 | 0.92 | 0.92 | 1.29 | 1.23 | | 1.25 | 1.42 | 1.49 | 1.49 | | 1.62 | 1.60 | 1.60 | | 1.40 | 1.61 |
| | 22 | 16.50 | 92.37 | 0.66 | 0.65 | 1.15 | 1.11 | | 1.12 | 1.57 | 1.61 | 1.60 | | 1.94 | 1.95 | 1.95 | | 2.14 | 2.47 |
| | 23 | 17.00 | 92.42 | 0.32 | 0.31 | 0.72 | 0.65 | | 0.66 | 0.95 | 1.11 | 1.10 | | 1.59 | 1.49 | 1.49 | | 2.00 | 2.32 |
| | 24 | 17.50 | 92.37 | 0.22 | 0.22 | 0.49 | 0.48 | | 0.49 | 0.89 | 0.86 | 0.86 | | 1.15 | 1.19 | 1.19 | | 1.70 | 1.96 |
| | 25 | 18.00 | 92.32 | 0.09 | 0.09 | 0.30 | 0.30 | | 0.30 | 0.80 | 0.75 | 0.74 | | 1.23 | 1.29 | 1.29 | | 2.83 | 3.28 |
| | 26 | 18.50 | 93.12 | 0.20 | 0.20 | 0.39 | 0.36 | | 0.36 | 0.49 | 0.55 | 0.55 | | 0.72 | 0.69 | 0.69 | | 0.81 | 0.94 |
| | 27 | 19.00 | 93.02 | 0.10 | 0.10 | 0.34 | 0.29 | | 0.29 | 0.49 | 0.64 | 0.64 | | 1.17 | 1.03 | 1.04 | | 1.95 | 2.28 |
| | 28 | 19.50 | 92.52 | 0.12 | 0.11 | 0.39 | 0.35 | | 0.35 | 0.64 | 0.78 | 0.77 | | 1.37 | 1.26 | 1.26 | | 2.41 | 2.81 |
| | 29 | 20.00 | 92.42 | 0.34 | 0.33 | 0.73 | 0.77 | | 0.78 | 1.70 | 1.43 | 1.42 | | 1.82 | 2.03 | 2.03 | | 3.06 | 3.51 |
| | 30 | 20.50 | 92.57 | 0.56 | 0.55 | 1.18 | 1.16 | | 1.17 | 2.05 | 2.00 | 1.99 | | 2.63 | 2.72 | 2.71 | | 3.73 | 4.30 |
| | 31 | 21.00 | 92.72 | 0.76 | 0.75 | 1.39 | 1.38 | | 1.40 | 2.22 | 2.14 | 2.13 | | 2.59 | 2.70 | 2.69 | | 3.21 | 3.69 |
| | 32 | 21.50 | 95.02 | | | | | | | | | | | | | | | 0.41 | 0.46 |
| | 33 | 22.00 | 95.52 | | | | | | | | | | | | | | | | |
| | 34 | 23.00 | 95.90 | | | | | | | | | | | | | | | | |
| | 35 | 24.00 | 96.20 | | | | | | | | | | | | | | | | |
| | 36 | 25.00 | 96.35 | | | | | | | | | | | | | | | | |
| | 37 | 26.00 | 96.05 | | | | | | | | | | | | | | | | |
| * | 38 | 26.50 | 93.62 | 0.01 | 0.03 | 0.07 | 0.06 | | 0.13 | 0.30 | 0.33 | 0.40 | | 0.97 | 0.94 | 0.84 | | 5.24 | 3.05 |
| | 39 | 27.00 | 93.72 | 0.02 | 0.02 | 0.12 | 0.10 | | 0.10 | 0.30 | 0.38 | 0.37 | | 0.93 | 0.84 | 0.84 | | 2.98 | 3.51 |
| | 40 | 27.50 | 93.72 | 0.06 | 0.05 | 0.15 | 0.12 | | 0.12 | 0.14 | 0.21 | 0.21 | | 0.36 | 0.29 | 0.30 | | 0.42 | 0.49 |
| | 41 | 28.00 | 93.77 | 0.07 | 0.07 | 0.13 | 0.11 | | 0.11 | 0.12 | 0.15 | 0.15 | | 0.20 | 0.18 | 0.18 | | 0.18 | 0.21 |
| | 42 | 28.50 | 94.97 | | | | | | | | | | | | 0.02 | 0.02 | | 0.07 | 0.08 |
| | 43 | 28.60 | 95.02 | | | | | | | | | | | | | | | 0.07 | 0.08 |
| | 44 | 29.90 | 95.93 | | | | | | | | | | | | | | | | |
| | 45 | 30.20 | 97.44 | | | | | | | | | | | | | | | | |
| | 46 | 30.67 | 97.62 | | | | | | | | | | | | | | | | |
| Total | | | | | | | 1 * | | 0 * | | 0 * | | | 0 * | | 0 * | | 2 * | 2 * |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.9 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----|-------|--------|-------|------|-------------|------|--------|------|-------|-------------|--------|--------|-----|-------------|-------------|--------|------|-----|-------|-------|------|------|--|--|-----|--|
| Transect 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | | 96.13 | | | | 96.45 | | | | 96.78 | | | | 97.06 | | | | 97.76 | | | | | | | |
| Disch (cfs) | | | | 5.00 | | 12.50 | | 25.50 | | 41.00 | | 102.50 | | | | | | | | | | | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Orig | Rev | | | | | |
| | 1 | 0.00 | 100.48 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 0.10 | 100.35 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 0.60 | 99.27 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 4.10 | 98.25 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | 8.30 | 98.21 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | 9.00 | 98.63 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | 10.60 | 98.18 | | | | | | | | | | | | | | | | | | | 0.14 | 0.16 | | | | |
| | 8 | 11.00 | 97.10 | | | | | | | | | | | | | | | | | | | 0.17 | 0.19 | | | | |
| | 9 | 11.50 | 96.90 | | | | | | | | | | | | | 0.07 | 0.06 | 0.06 | | | | 0.14 | 0.16 | | | | |
| | 10 | 12.00 | 96.80 | | | | | | | | | | | | | 0.07 | 0.06 | 0.07 | | | | 0.33 | 0.37 | | | | |
| | 11 | 12.60 | 97.51 | | | | | | | | | | | | | | | | | | | 0.80 | 0.91 | | | | |
| | 12 | 13.00 | 96.80 | | | | | | | | | | | | | 0.41 | 0.37 | 0.37 | | | | 0.50 | 0.57 | | | | |
| | 13 | 13.70 | 97.10 | | | | | | | | | | | | | | | | | | | 0.33 | 0.38 | | | | |
| | 14 | 14.00 | 96.20 | | | 0.00 | 0.57 | * | 0.51 | * | 0.46 | 0.46 | 0.44 | | 0.42 | 0.42 | 0.42 | | | | 0.24 | 0.27 | | | | | |
| | 15 | 15.20 | 97.37 | | | | | | | | | | | | | | | | | | | 1.98 | 2.32 | | | | |
| | 16 | 15.50 | 96.40 | | | 0.10 | 0.12 | 0.10 | | | 0.36 | 0.30 | 0.27 | | 0.54 | 0.60 | 0.57 | | | | 0.43 | 0.51 | | | | | |
| | 17 | 16.00 | 96.20 | | | 0.05 | 0.05 | 0.04 | | | 0.10 | 0.11 | 0.10 | | 0.18 | 0.18 | 0.17 | | | | 3.06 | 3.59 | | | | | |
| | 18 | 17.00 | 96.00 | 1.99 | 1.75 | 2.11 | 2.17 | 1.89 | | | 2.00 | 2.37 | 2.24 | | 2.89 | 2.69 | 2.65 | | | | 4.77 | 5.58 | | | | | |
| | 19 | 17.50 | 95.70 | 1.62 | 1.39 | 2.01 | 2.15 | 1.84 | | | 2.51 | 2.74 | 2.55 | | 3.55 | 3.44 | 3.36 | | | | 6.74 | 7.99 | | | | | |
| | 20 | 18.00 | 96.20 | | 1.07 | 1.99 | 2.05 | 1.71 | | | 2.53 | 2.97 | 2.75 | | 4.37 | 4.09 | 3.99 | | | | 6.60 | 7.77 | | | | | |
| | 21 | 18.50 | 96.30 | | 1.17 | 2.02 | 2.14 | 1.80 | | | 2.75 | 3.04 | 2.82 | | 4.28 | 4.12 | 4.02 | | | | 2.09 | 2.34 | | | | | |
| * | 22 | 19.00 | 96.30 | | | 2.05 | 2.61 | * | 2.38 | | 2.99 | 2.35 | * 2.25 | * | 2.08 | 2.35 | 2.30 | | | | 2.63 | 3.01 | | | | | |
| * | 23 | 19.50 | 96.35 | | | 2.18 | 2.54 | 2.26 | | | 2.67 | 2.49 | 2.37 | | 2.54 | 2.64 | 2.60 | | | | 3.79 | 4.39 | | | | | |
| * | 24 | 20.00 | 95.90 | 2.09 | 1.86 | 2.17 | 2.41 | 2.09 | | | 2.66 | 2.72 | 2.56 | | 3.18 | 3.17 | 3.11 | | | | 3.94 | 4.67 | | | | | |
| * | 25 | 20.50 | 96.20 | | 1.48 | 2.14 | 2.12 | 1.81 | | | 2.00 | 2.54 | * 2.38 | | 3.41 | 3.07 | 3.02 | | | | 5.81 | 6.91 | | | | | |
| * | 26 | 21.00 | 96.35 | | | 2.47 | 2.44 | 2.06 | | | 2.48 | 3.17 | * 2.96 | | 4.52 | 4.06 | 3.98 | | | | 7.57 | 7.45 | | | | | |
| * | 27 | 21.50 | 96.35 | | | 2.60 | 2.84 | 2.49 | | | 3.65 | 3.84 | 3.44 | | 5.10 | 5.04 | 4.51 | | | | 8.83 | 8.66 | | | | | |
| * | 28 | 22.00 | 96.35 | | | 2.32 | 2.37 | 2.04 | | | 3.02 | 3.59 | 3.17 | | 5.45 | 5.08 | 4.51 | | | | 3.04 | 3.90 | | | | | |
| * | 29 | 22.50 | 95.60 | 1.52 | 1.52 | 1.82 | 1.80 | 1.75 | | | 1.63 | 2.08 | * 2.19 | * | 2.75 | 2.47 | 2.69 | | | | 4.70 | 5.54 | | | | | |
| | 30 | 23.00 | 95.75 | 1.50 | 1.28 | 1.97 | 2.04 | 1.73 | | | 2.25 | 2.62 | 2.45 | | 3.55 | 3.33 | 3.26 | | | | 5.06 | 5.97 | | | | | |
| * | 31 | 23.50 | 95.80 | 1.00 | 0.83 | 1.49 | 1.57 | 1.31 | | | 2.01 | 2.26 | 2.09 | | 3.24 | 3.10 | 3.02 | | | | 3.21 | 3.76 | | | | | |
| * | 32 | 24.00 | 95.40 | 1.00 | 0.86 | 1.29 | 1.37 | 1.16 | | | 1.59 | 1.77 | 1.65 | | 2.35 | 2.26 | 2.20 | | | | 0.16 | 0.20 | | | | | |
| * | 33 | 24.50 | 95.60 | 1.18 | 1.12 | 0.75 | 0.62 | 0.57 | | | 0.21 | 0.38 | 0.38 | | 0.40 | 0.30 | 0.31 | | | | 11.02 | 2.96 | | | | | |
| | 34 | 25.00 | 95.70 | 0.00 | 0.02 | 0.01 | 0.01 | 0.07 | | | 0.03 | 0.08 | 0.24 | * | 0.68 | 0.44 | * 0.57 | | | | 1.91 | 2.38 | | | | | |
| | 35 | 25.50 | 96.30 | | | 0.25 | 0.21 | 0.16 | | | 0.24 | 0.43 | 0.38 | | 0.96 | 0.74 | * 0.72 | * | | | 1.27 | 1.46 | | | | | |
| | 36 | 26.00 | 95.60 | 0.53 | 0.47 | 0.56 | 0.66 | 0.57 | | | 0.89 | 0.80 | 0.75 | | 0.92 | 0.98 | 0.95 | | | | 1.57 | 1.85 | | | | | |
| | 37 | 26.50 | 95.40 | 1.47 | 1.31 | 1.43 | 1.44 | 1.26 | | | 1.16 | 1.44 | * 1.37 | | 1.70 | 1.54 | 1.53 | | | | 4.71 | 5.59 | | | | | |
| | 38 | 27.00 | 95.45 | 1.01 | 0.84 | 1.52 | 1.54 | 1.29 | | | 1.81 | 2.18 | * 2.02 | | 3.20 | 2.95 | 2.89 | | | | 4.65 | 5.04 | | | | | |
| * | 39 | 27.50 | 96.45 | | | 2.80 | | * | | | 3.95 | 3.60 | 3.15 | * | 3.87 | 4.08 | 3.73 | | | | 6.16 | 7.07 | | | | | |
| * | 40 | 28.00 | 96.10 | 0.76 | 0.64 | 1.09 | 1.37 | * 1.15 | | | 2.80 | 2.22 | * 2.03 | * | 2.88 | 3.27 | 3.13 | | | | 10.39 | 8.12 | | | | | |
| * | 41 | 28.50 | 95.60 | 0.55 | 0.39 | 0.96 | 1.28 | * 0.85 | | | 3.57 | 2.52 | * 1.74 | * | 3.54 | 4.26 | * 2.97 | | | | 17.38 | 9.30 | | | | | |
| * | 42 | 29.00 | 96.35 | | | 0.40 | 0.60 | 0.52 | | | 3.29 | 1.82 | * 1.32 | * | 3.01 | 4.09 | * 2.59 | | | | 7.30 | 4.17 | | | | | |
| * | 43 | 29.50 | 96.55 | | | | | | | | 0.30 | 0.37 | 0.42 | | 1.15 | 1.07 | 0.93 | | | | 0.56 | 0.86 | | | | | |
| | 44 | 30.00 | 97.34 | | | | | | | | | | | | | | | | | | | 0.76 | 1.17 | | | | |
| | 45 | 30.50 | 97.09 | | | | | | | | | | | | | | | | | | | 1.74 | 1.99 | | | | |
| | 46 | 30.60 | 97.00 | | | | | | | | | | | | | 0.50 | 0.35 | 0.34 | | | | 3.59 | 3.92 | | | | |
| | 47 | 31.00 | 95.95 | 0.14 | 0.12 | 0.20 | 0.35 | 0.29 | | | 1.85 | 0.75 | * 0.67 | * | 0.85 | 1.34 | * 1.24 | * | | | | 1.73 | 1.90 | | | | |
| | 48 | 31.50 | 95.90 | 1.18 | 1.13 | 0.85 | 1.27 | * 1.15 | * | | 2.40 | 1.37 | * 1.30 | * | 1.17 | 1.55 | * 1.49 | * | | | | 1.35 | 1.46 | | | | |
| | 49 | 32.00 | 95.90 | 0.85 | 0.82 | 0.59 | 0.94 | * 0.85 | * | | 2.01 | 1.03 | * 0.97 | * | 0.84 | 1.17 | * 1.12 | * | | | | 1.37 | 1.55 | | | | |
| | 50 | 32.50 | 95.95 | 1.02 | 0.95 | 0.86 | 1.07 | * 0.95 | | | 1.39 | 1.13 | 1.07 | * | 1.13 | 1.26 | 1.23 | | | | 0.94 | 1.10 | | | | | |
| | 51 | 33.00 | 96.20 | | | 0.61 | 0.65 | 0.57 | | | 0.65 | 0.72 | 0.68 | | 0.85 | 0.82 | 0.80 | | | | 0.94 | 0.97 | | | | | |
| | 52 | 33.70 | 97.10 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 53 | 33.71 | 101.41 | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | 8 * | | | | 4 * | | | | 12 * | | | | 11 * | | 7 * | | | | 4 * | |
| Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20% | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 4. Summary of Calibration Details, Lake Creek Study Site 1, 3 Flow

| Trans No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| DISCHARGE | | | | | | | | | |
| Meas. | 37 | 41 | 46 | 39 | 44 | 42 | 38 | 35 | 44 |
| | 25 | 25 | 27 | 25 | 23 | 25 | 23 | 21 | 26 |
| | 11 | 12 | 11 | 13 | 11 | 13 | 17 | 12 | 13 |
| Calc. | | | | | | | | | |
| | 39 | 41 | 45 | 45 | 44 | 44 | 34 | 35 | 43 |
| | 26 | 26 | 27 | 27 | 26 | 26 | 25 | 20 | 20 |
| | 12 | 12 | 14 | 14 | 11 | 14 | 15 | 11 | 10 |
| Given | | | | | | | | | |
| | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
| | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 |
| Stage (given) | | | | | | | | | |
| | 97.70 | 99.99 | 96.93 | 98.46 | 94.26 | 94.41 | 94.72 | 95.02 | 97.10 |
| | 97.46 | 99.79 | 96.73 | 98.12 | 93.97 | 94.12 | 94.52 | 94.75 | 96.69 |
| | 97.25 | 99.59 | 96.44 | 97.79 | 93.71 | 93.87 | 94.26 | 94.51 | 96.49 |
| Plotting Stage (given) | | | | | | | | | |
| | 2.19 | 1.80 | 1.50 | 2.80 | 2.30 | 2.20 | 1.80 | 2.75 | 1.70 |
| | 1.95 | 1.60 | 1.30 | 2.46 | 2.01 | 1.91 | 1.60 | 2.48 | 1.29 |
| | 1.74 | 1.40 | 1.01 | 2.13 | 1.75 | 1.66 | 1.34 | 2.24 | 1.09 |
| Ratio of Modeled vs Predicted Discharge (given) | | | | | | | | | |
| Based on Stage-Discharge Relationship | | | | | | | | | |
| | 0.960 | 0.972 | 1.019 | 0.970 | 0.963 | 0.961 | 1.000 | 0.960 | 0.937 |
| | 1.087 | 1.056 | 0.971 | 1.060 | 1.077 | 1.084 | 1.000 | 1.086 | 1.187 |
| | 0.959 | 0.975 | 1.011 | 0.973 | 0.964 | 0.960 | 1.000 | 0.959 | 0.899 |
| Mean Error of Stage/Discharge Relationship (given) | | | | | | | | | |
| | 5.48 | 3.60 | 1.96 | 3.85 | 4.89 | 5.34 | 0.04 | 5.44 | 11.26 |
| Stage/Discharge Relationship (S vs Q) $S=A*Q^{**}B+SZF$ (given) | | | | | | | | | |
| A= | 1.06 | 0.82 | 0.43 | 1.19 | 0.97 | 0.90 | 0.72 | 1.44 | 0.39 |
| B= | 0.19 | 0.21 | 0.34 | 0.23 | 0.23 | 0.24 | 0.25 | 0.17 | 0.39 |
| SZF= | 95.51 | 98.19 | 95.43 | 95.66 | 91.96 | 92.21 | 92.92 | 92.27 | 95.40 |
| B Coefficient log/log Relationship (calculated) | | | | | | | | | |
| | 4.93 | 4.98 | 2.84 | 4.27 | 5.02 | 4.16 | 2.88 | 5.59 | 3.20 |

DRAFT

LAKE CREEK INSTREAM FLOW REPORT

CALIBRATION REPORT

STUDY SITE 1, TRANSECTS 1-9

HIGH FLOW CALIBRATION REPORT

Prepared for:

Dr. Hal Beecher
Washington Department of Fish and Wildlife Service

Prepared by:

EES Consulting, Inc.
Jean Caldwell and Associates

For:

Energy Northwest

APRIL 18, 2007

Table 1a. Velocity Adjustment Factors, Lake Creek Study Site 1, High Flow Deck.

| | Trans 1 | | Trans 2 | | Trans 3 | |
|------|---------|--------|---------|--------|---------|--------|
| Flow | Orig | Rev | Orig | Rev | Orig | Rev |
| 40 | 1.0491 | 1.0491 | 0.9893 | 0.9893 | 0.9196 | 1.3375 |
| 45 | 1.0959 | 1.0959 | 1.0390 | 1.0390 | 0.9480 | 1.3858 |
| 50 | 1.1401 | 1.1401 | 1.0863 | 1.0863 | 0.9751 | 1.4313 |
| 55 | 1.1823 | 1.1823 | 1.1315 | 1.1315 | 1.0010 | 1.4745 |
| 60 | 1.2226 | 1.2226 | 1.1749 | 1.1749 | 1.0259 | 1.5158 |
| 65 | 1.2614 | 1.2614 | 1.2166 | 1.2166 | 1.0500 | 1.5555 |
| 70 | 1.2987 | 1.2987 | 1.2570 | 1.2570 | 1.0732 | 1.5936 |
| 80 | 1.3697 | 1.3697 | 1.3339 | 1.3339 | 1.1176 | 1.6661 |
| 90 | 1.4366 | 1.4366 | 1.4067 | 1.4067 | 1.1596 | 1.7342 |
| 100 | 1.5000 | 1.5000 | 1.4758 | 1.4758 | 1.1996 | 1.7986 |
| 110 | 1.5604 | 1.5604 | 1.5420 | 1.5420 | 1.2378 | 1.8600 |
| 120 | 1.6183 | 1.6183 | 1.6054 | 1.6054 | 1.2745 | 1.9188 |
| 130 | 1.6740 | 1.6740 | 1.6666 | 1.6666 | 1.3099 | 1.9752 |
| 140 | 1.7277 | 1.7277 | 1.7256 | 1.7256 | 1.3440 | 2.0297 |
| 150 | 1.7795 | 1.7795 | 1.7828 | 1.7828 | 1.3771 | 2.0823 |
| 160 | 1.8297 | 1.8297 | 1.8383 | 1.8383 | 1.4092 | 2.1333 |
| 170 | 1.8783 | 1.8783 | 1.8923 | 1.8923 | 1.4403 | 2.1827 |
| 180 | 1.9256 | 1.9256 | 1.9449 | 1.9449 | 1.4707 | 2.2308 |
| 190 | 1.9716 | 1.9716 | 1.9962 | 1.9962 | 1.5003 | 2.2777 |
| 200 | 2.0164 | 2.0164 | 2.0462 | 2.0462 | 1.5292 | 2.3234 |
| 210 | 2.0601 | 2.0601 | 2.0952 | 2.0952 | 1.5574 | 2.3680 |
| 220 | 2.1027 | 2.1027 | 2.1432 | 2.1432 | 1.5850 | 2.4117 |
| 230 | 2.1444 | 2.1444 | 2.1902 | 2.1902 | 1.6120 | 2.4544 |
| 240 | 2.1851 | 2.1851 | 2.2363 | 2.2363 | 1.6385 | 2.4962 |
| 250 | 2.2249 | 2.2249 | 2.2815 | 2.2815 | 1.6645 | 2.5372 |
| 260 | 2.2640 | 2.2640 | 2.3259 | 2.3259 | 1.6901 | 2.5774 |
| 270 | 2.3023 | 2.3023 | 2.3696 | 2.3696 | 1.7151 | 2.6169 |
| 280 | 2.3398 | 2.3398 | 2.4126 | 2.4126 | 1.7398 | 2.6557 |
| 290 | 2.3766 | 2.3766 | 2.4549 | 2.4549 | 1.7640 | 2.6938 |
| 300 | 2.4128 | 2.4128 | 2.4965 | 2.4965 | 1.7878 | 2.7314 |

Table 1b. Velocity Adjustment Factors, Lake Creek Study Site 1, High Flow Deck.

| | Trans 4 | | Trans 5 | | Trans 6 | |
|------|---------|--------|---------|--------|---------|--------|
| Flow | Orig | Rev | Orig | Rev | Orig | Rev |
| 40 | 0.9869 | 0.9719 | 0.8185 | 1.2300 | 0.8021 | 0.7643 |
| 45 | 1.0188 | 1.0117 | 0.8631 | 1.3010 | 0.7619 | 0.7381 |
| 50 | 1.0466 | 1.0477 | 0.9051 | 1.3685 | 0.7270 | 0.7152 |
| 55 | 1.0720 | 1.0812 | 0.9450 | 1.4324 | 0.6982 | 0.6964 |
| 60 | 1.0955 | 1.1126 | 0.9816 | 1.4931 | 0.6741 | 0.6807 |
| 65 | 1.1177 | 1.1425 | 1.0170 | 1.5511 | 0.6539 | 0.6675 |
| 70 | 1.1388 | 1.1710 | 1.0511 | 1.6067 | 0.6368 | 0.6562 |
| 80 | 1.1785 | 1.2245 | 1.1159 | 1.7120 | 0.6092 | 0.6380 |
| 90 | 1.2155 | 1.2744 | 1.1769 | 1.8103 | 0.5880 | 0.6235 |
| 100 | 1.2505 | 1.3213 | 1.2347 | 1.9022 | 0.5714 | 0.6121 |
| 110 | 1.2839 | 1.3658 | 1.2898 | 1.9889 | 0.5570 | 0.6026 |
| 120 | 1.3158 | 1.4082 | 1.3418 | 2.0698 | 0.5421 | 0.5941 |
| 130 | 1.3465 | 1.4488 | 1.3917 | 2.1468 | 0.5260 | 0.5859 |
| 140 | 1.3762 | 1.4878 | 1.4372 | 2.2190 | 0.5108 | 0.5786 |
| 150 | 1.4050 | 1.5255 | 1.4818 | 2.2881 | 0.4967 | 0.5720 |
| 160 | 1.4328 | 1.5619 | 1.5251 | 2.3545 | 0.4838 | 0.5660 |
| 170 | 1.4585 | 1.5955 | 1.5671 | 2.4184 | 0.4705 | 0.5602 |
| 180 | 1.4836 | 1.6283 | 1.6081 | 2.4801 | 0.4583 | 0.5548 |
| 190 | 1.5083 | 1.6603 | 1.6478 | 2.5394 | 0.4473 | 0.5499 |
| 200 | 1.5324 | 1.6916 | 1.6861 | 2.5963 | 0.4374 | 0.5455 |
| 210 | 1.5560 | 1.7221 | 1.7237 | 2.6519 | 0.4283 | 0.5416 |
| 220 | 1.5792 | 1.7518 | 1.7604 | 2.7059 | 0.4202 | 0.5380 |
| 230 | 1.6019 | 1.7810 | 1.7964 | 2.7586 | 0.4127 | 0.5347 |
| 240 | 1.6241 | 1.8094 | 1.8318 | 2.8102 | 0.4059 | 0.5317 |
| 250 | 1.6459 | 1.8374 | 1.8664 | 2.8606 | 0.3996 | 0.5290 |
| 260 | 1.6674 | 1.8647 | 1.9004 | 2.9099 | 0.3938 | 0.5264 |
| 270 | 1.6884 | 1.8915 | 1.9338 | 2.9583 | 0.3883 | 0.5241 |
| 280 | 1.7088 | 1.9174 | 1.9667 | 3.0057 | 0.3833 | 0.5219 |
| 290 | 1.7290 | 1.9430 | 1.9991 | 3.0523 | 0.3786 | 0.5199 |
| 300 | 1.7488 | 1.9682 | 2.0309 | 3.0980 | 0.3743 | 0.5181 |

Table 1c. Velocity Adjustment Factors, Lake Creek Study Site 1, High Flow Deck.

| Flow | Trans 7 | | Trans 8 | | Trans 9 | |
|------|---------|--------|---------|--------|---------|--------|
| | Orig | Rev | Orig | Rev | Orig | Rev |
| 40 | 1.0661 | 1.1145 | 1.1854 | 1.0491 | 1.0174 | 0.9893 |
| 45 | 1.0899 | 1.1464 | 1.2652 | 1.0959 | 0.9757 | 1.0390 |
| 50 | 1.1110 | 1.1755 | 1.3424 | 1.1401 | 0.9433 | 1.0863 |
| 55 | 1.1269 | 1.2003 | 1.4172 | 1.1823 | 0.9177 | 1.1315 |
| 60 | 1.1426 | 1.2242 | 1.4896 | 1.2226 | 0.8962 | 1.1749 |
| 65 | 1.1578 | 1.2469 | 1.5598 | 1.2614 | 0.8781 | 1.2166 |
| 70 | 1.1722 | 1.2685 | 1.6282 | 1.2987 | 0.8629 | 1.2570 |
| 80 | 1.1999 | 1.3092 | 1.7596 | 1.3697 | 0.8390 | 1.3339 |
| 90 | 1.2264 | 1.3475 | 1.8849 | 1.4366 | 0.8215 | 1.4067 |
| 100 | 1.2521 | 1.3840 | 2.0044 | 1.5000 | 0.8081 | 1.4758 |
| 110 | 1.2770 | 1.4188 | 2.1192 | 1.5604 | 0.7978 | 1.5420 |
| 120 | 1.3012 | 1.4522 | 2.2300 | 1.6183 | 0.7897 | 1.6054 |
| 130 | 1.3247 | 1.4844 | 2.3371 | 1.6740 | 0.7832 | 1.6666 |
| 140 | 1.3476 | 1.5156 | 2.4409 | 1.7277 | 0.7778 | 1.7256 |
| 150 | 1.3700 | 1.5457 | 2.5417 | 1.7795 | 0.7734 | 1.7828 |
| 160 | 1.3919 | 1.5750 | 2.6395 | 1.8297 | 0.7697 | 1.8383 |
| 170 | 1.4133 | 1.6034 | 2.7342 | 1.8783 | 0.7666 | 1.8923 |
| 180 | 1.4342 | 1.6311 | 2.8266 | 1.9256 | 0.7640 | 1.9449 |
| 190 | 1.4547 | 1.6581 | 2.9170 | 1.9716 | 0.7618 | 1.9962 |
| 200 | 1.4748 | 1.6845 | 3.0032 | 2.0164 | 0.7601 | 2.0462 |
| 210 | 1.4944 | 1.7103 | 3.0883 | 2.0601 | 0.7586 | 2.0952 |
| 220 | 1.5138 | 1.7355 | 3.1717 | 2.1027 | 0.7574 | 2.1432 |
| 230 | 1.5327 | 1.7602 | 3.2542 | 2.1444 | 0.7564 | 2.1902 |
| 240 | 1.5514 | 1.7844 | 3.3347 | 2.1851 | 0.7555 | 2.2363 |
| 250 | 1.5697 | 1.8081 | 3.4138 | 2.2249 | 0.7549 | 2.2815 |
| 260 | 1.5877 | 1.8314 | 3.4914 | 2.2640 | 0.7543 | 2.3259 |
| 270 | 1.6055 | 1.8543 | 3.5675 | 2.3023 | 0.7539 | 2.3696 |
| 280 | 1.6229 | 1.8768 | 3.6419 | 2.3398 | 0.7537 | 2.4126 |
| 290 | 1.6401 | 1.8989 | 3.7146 | 2.3766 | 0.7535 | 2.4549 |
| 300 | 1.6571 | 1.9206 | 3.7861 | 2.4128 | 0.7534 | 2.4965 |

Table 2. Changes to original data decks, Lake Creek Study Site 1, Hi Flow Deck;

| High Flow | | | | |
|------------------|----------------|-----------------|------------|-------------------|
| Trans | Station | Orig | Rev | Other |
| 1 | | No changes made | | |
| 2 | | No changes made | | |
| 3 | 7.0 | | | n 0.0325 to 0.05 |
| | 7.9 | | | n 0.0333 to 0.06 |
| | 9.0 | | | n 0.35 to 0.15 |
| | 14.5 | | | n 2.6454 to 0.1 |
| | 15.0 | | | n 0.0382 to 0.06 |
| | 15.8 | | | n 0.0465 to 0.07 |
| | 16.5 | | | n 0.0277 to 0.06 |
| | 17.5 | | | n 0.0302 to 0.06 |
| | 17.6 | | | n 0.054 to 0.065 |
| | 19.0 | | | n 0.0383 to 0.07 |
| | 20.0 | | | n 0.0630 to 0.07 |
| | 23.0 | | | n 0.3215 to 0.2 |
| | 24.0 | | | n 0.0329 to 0.06 |
| | 25.0 | | | n 0.0297 to 0.06 |
| 4 | 27.0 | | | n 0.0222 to 0.06 |
| | 28.0 | | | n 0.0221 to 0.06 |
| | 29.3 | | | n 0.3687 to 0.22 |
| | 16.0 | | | n 0.5523 to 0.2 |
| | 17.0 | | | n 0.4667 to 0.2 |
| | 18.5 | | | n 0.0313 to 0.05 |
| | 19.5 | | | n 0.0326 to 0.04 |
| | 20.0 | | | n 0.02 to 0.038 |
| | 20.5 | | | n 0.0323 to 0.04 |
| | 21.0 | | | n 0.0258 to 0.035 |
| 22.0 | | -0.1 | 0.1 | n 0.6349 to 0.1 |
| 23.0 | | | | n 0.02 to 0.03 |
| 23.5 | | | | n 0.02 to 0.03 |
| 24.1 | | | | n .1338 to 0.08 |
| 5 | 11.0 | | | n 0.0456 to 0.08 |
| | 11.5 | | | n 0.0549 to 0.08 |

Table 2. Changes to original data decks, Lake Creek Study Site 1, Hi Flow Deck;

| High Flow | | | | |
|-----------|---------|------|-----|---------------------|
| Trans | Station | Orig | Rev | Other |
| | 12.0 | | | n 0.0384 to 0.07 |
| | 12.5 | | | n 0.0703 to 0.085 |
| | 13.0 | | | n 0.0338 to 0.05 |
| | 14.5 | | | n 0.1801 to 0.1 |
| | 15.0 | | | n 0.0524 to 0.08 |
| | 15.5 | | | n 0.0764 to 0.085 |
| | 16.0 | | | n 0.0539 to 0.08 |
| | 16.5 | | | n 0.0494 to 0.08 |
| | 17.0 | | | n 0.0618 to 0.075 |
| | 17.5 | | | n 0.0709 to 0.08 |
| | 18.0 | | | n 0.0613 to 0.075 |
| | 18.5 | | | n 0.0707 to 0.085 |
| | 19.0 | | | n 0.0547 to 0.07 |
| | 19.5 | | | n 0.0497 to 0.065 |
| | 20.0 | | | n 0.0664 to 0.075 |
| | 20.5 | | | n 0.0515 to 0.065 |
| 6 | 15.5 | | | n 0.3156 to 0.08 |
| | 16.0 | | | n 0.1699 to 0.08 |
| | 16.5 | | | n 0.2124 to 0.08 |
| | 17.0 | | | n 0.1601 to 0.08 |
| | 30.5 | | | n 0.1126 to 0.05 |
| | 32.0 | | | n 0.1575 to 0.09 |
| 7 | 21.0 | | | n 0.0232 to 0.02 |
| | 21.5 | | | n 0.012 to 0.02 |
| | 22.0 | | | n 0.0131 to 0.02 |
| | 22.5 | | | n 0.0577 to 0.04 |
| | 25.5 | | | n 0.0087 to 0.018 |
| | 28.5 | | | n 0.0164 to 0.02 |
| | 29.0 | | | n 0.0108 to 0.02 |
| | 30.0 | | | n 0.0118 to 0.02 |
| 8 | 9.0 | | | n -1.2688 to 0.9000 |
| | 10.0 | | | n -1.0283 to 0.9000 |
| | 11.0 | | | n 0.8506 to 0.9000 |
| | 14.5 | | | n 0.0633 to 0.08 |

| Table 2. Changes to original data decks, Lake Creek Study Site 1, Hi Flow Deck; | | | | |
|--|----------------|-------------|------------|------------------|
| High Flow | | | | |
| Trans | Station | Orig | Rev | Other |
| | 15.0 | | | n 0.0458 to 0.08 |
| | 15.5 | | | n 0.0574 to 0.70 |
| | 20.5 | | | n 0.0611 to 0.09 |
| | 21.0 | | | n 0.0595 to 0.09 |
| 9 | 21.0 | | | n 0.0272 to 0.04 |
| | 21.5 | | | n 0.0267 to 0.04 |
| | 22.0 | | | n 0.0253 to 0.04 |
| | 24.5 | | | n 0.4888 to 0.3 |
| | 25.0 | | | n 0.2745 to 0.2 |

Table 3.1 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | |
|---|-------|-------------|-------------|-------|------|------|-----|--------|------|--------|------|--------|------|
| Transect 1 | | | | | | | | | | | | | |
| Rv | Pt | WSE (ft) | | 97.70 | | | | 98.27 | | 98.51 | | 99.11 | |
| | | Disch (cfs) | | 41.00 | | | | 102.50 | | 144.00 | | 300.00 | |
| | | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev | Orig |
| 1 | 0.00 | 101.54 | | | | | | | | | | | |
| 2 | 0.10 | 99.96 | | | | | | | | | | | |
| 3 | 0.70 | 100.67 | | | | | | | | | | | |
| 4 | 1.40 | 99.19 | | | | | | | | | | | |
| 5 | 10.00 | 98.55 | | | | | | | | | | 0.81 | 0.23 |
| 6 | 10.50 | 97.68 | | 0.04 | | 0.01 | | 0.52 | 0.15 | 0.76 | 0.21 | 1.52 | 0.43 |
| 7 | 11.00 | 97.60 | | 0.11 | | 0.01 | | 0.57 | 0.05 | 0.81 | 0.08 | 1.57 | 0.15 |
| 8 | 12.00 | 97.36 | 0.24 | 0.26 | | 0.26 | | 0.70 | 0.70 | 0.95 | 0.95 | 1.74 | 1.75 |
| 9 | 13.00 | 97.21 | 0.74 | 0.79 | | 0.79 | | 1.87 | 1.88 | 2.49 | 2.50 | 4.43 | 4.47 |
| 10 | 14.00 | 97.06 | 0.23 | 0.24 | | 0.24 | | 0.53 | 0.53 | 0.70 | 0.70 | 1.21 | 1.22 |
| 11 | 15.00 | 96.66 | 0.38 | 0.40 | | 0.40 | | 0.76 | 0.76 | 0.96 | 0.97 | 1.61 | 1.62 |
| 12 | 16.00 | 96.66 | 1.13 | 1.20 | | 1.20 | | 2.29 | 2.30 | 2.91 | 2.92 | 4.84 | 4.89 |
| 13 | 17.00 | 96.66 | 0.68 | 0.72 | | 0.72 | | 1.38 | 1.38 | 1.75 | 1.76 | 2.91 | 2.94 |
| 14 | 18.00 | 96.46 | 1.24 | 1.31 | | 1.32 | | 2.42 | 2.43 | 3.04 | 3.05 | 4.98 | 5.03 |
| 15 | 19.00 | 96.81 | 2.06 | 2.19 | | 2.19 | | 4.34 | 4.36 | 5.56 | 5.58 | 9.39 | 9.49 |
| 16 | 20.00 | 96.61 | 1.57 | 1.67 | | 1.67 | | 3.15 | 3.16 | 3.98 | 4.00 | 6.61 | 6.68 |
| 17 | 20.50 | 96.55 | 1.19 | 1.26 | | 1.26 | | 2.36 | 2.37 | 2.97 | 2.99 | 4.91 | 4.96 |
| 18 | 21.00 | 96.60 | 0.80 | 0.85 | | 0.85 | | 1.60 | 1.61 | 2.02 | 2.03 | 3.36 | 3.39 |
| 19 | 21.50 | 96.41 | 0.97 | 1.03 | | 1.03 | | 1.88 | 1.88 | 2.35 | 2.36 | 3.84 | 3.88 |
| 20 | 22.00 | 96.66 | 0.90 | 0.95 | | 0.95 | | 1.82 | 1.83 | 2.31 | 2.33 | 3.86 | 3.90 |
| 21 | 22.50 | 96.41 | 1.01 | 1.07 | | 1.07 | | 1.95 | 1.96 | 2.45 | 2.46 | 4.00 | 4.04 |
| 22 | 23.00 | 96.53 | 0.79 | 0.84 | | 0.84 | | 1.56 | 1.56 | 1.96 | 1.97 | 3.24 | 3.27 |
| 23 | 23.50 | 96.61 | 0.81 | 0.86 | | 0.86 | | 1.62 | 1.63 | 2.05 | 2.06 | 3.41 | 3.45 |
| 24 | 24.00 | 96.63 | 0.83 | 0.88 | | 0.88 | | 1.67 | 1.68 | 2.12 | 2.13 | 3.52 | 3.55 |
| 25 | 24.50 | 96.68 | 0.36 | 0.38 | | 0.38 | | 0.73 | 0.74 | 0.93 | 0.94 | 1.55 | 1.57 |
| 26 | 25.00 | 96.41 | 1.11 | 1.18 | | 1.18 | | 2.15 | 2.15 | 2.69 | 2.70 | 4.39 | 4.44 |
| 27 | 25.50 | 96.31 | 1.05 | 1.11 | | 1.11 | | 2.00 | 2.01 | 2.50 | 2.51 | 4.05 | 4.09 |
| 28 | 26.00 | 96.41 | 0.83 | 0.88 | | 0.88 | | 1.60 | 1.61 | 2.01 | 2.02 | 3.29 | 3.32 |
| 29 | 26.50 | 96.06 | 1.28 | 1.36 | | 1.36 | | 2.37 | 2.37 | 2.93 | 2.94 | 4.68 | 4.73 |
| 30 | 27.00 | 95.91 | 1.43 | 1.52 | | 1.52 | | 2.60 | 2.61 | 3.21 | 3.23 | 5.09 | 5.15 |
| 31 | 27.50 | 95.86 | 1.67 | 1.77 | | 1.77 | | 3.03 | 3.04 | 3.73 | 3.75 | 5.90 | 5.96 |
| 32 | 28.00 | 95.61 | 1.47 | 1.56 | | 1.56 | | 2.62 | 2.62 | 3.20 | 3.22 | 5.01 | 5.06 |
| 33 | 28.50 | 95.61 | 1.98 | 2.10 | | 2.10 | | 3.52 | 3.53 | 4.31 | 4.33 | 6.75 | 6.82 |
| 34 | 29.00 | 95.51 | 1.72 | 1.82 | | 1.82 | | 3.04 | 3.05 | 3.71 | 3.73 | 5.79 | 5.85 |
| 35 | 29.50 | 95.51 | 1.96 | 2.08 | | 2.08 | | 3.46 | 3.48 | 4.23 | 4.25 | 6.60 | 6.67 |
| 36 | 30.00 | 95.61 | 1.81 | 1.92 | | 1.92 | | 3.22 | 3.23 | 3.94 | 3.96 | 6.17 | 6.24 |
| 37 | 30.50 | 95.71 | 1.76 | 1.87 | | 1.87 | | 3.15 | 3.16 | 3.87 | 3.89 | 6.08 | 6.14 |
| 38 | 31.00 | 95.71 | 1.59 | 1.68 | | 1.69 | | 2.85 | 2.86 | 3.49 | 3.51 | 5.49 | 5.55 |
| 39 | 31.50 | 95.66 | 1.54 | 1.63 | | 1.63 | | 2.75 | 2.76 | 3.37 | 3.38 | 5.28 | 5.34 |
| 40 | 32.00 | 95.81 | 0.68 | 0.72 | | 0.72 | | 1.23 | 1.23 | 1.51 | 1.52 | 2.38 | 2.41 |
| 41 | 32.50 | 95.88 | 1.10 | 1.16 | | 1.16 | | 1.99 | 2.00 | 2.45 | 2.46 | 3.88 | 3.92 |
| 42 | 33.00 | 95.91 | 1.27 | 1.35 | | 1.35 | | 2.31 | 2.32 | 2.85 | 2.87 | 4.52 | 4.57 |
| 43 | 33.50 | 96.31 | 1.99 | 2.11 | | 2.11 | | 3.79 | 3.80 | 4.73 | 4.76 | 7.68 | 7.76 |
| 44 | 34.00 | 96.06 | 0.63 | 0.67 | | 0.67 | | 1.16 | 1.17 | 1.44 | 1.45 | 2.30 | 2.33 |
| 45 | 34.50 | 96.16 | 0.88 | 0.93 | | 0.93 | | 1.64 | 1.65 | 2.04 | 2.05 | 3.28 | 3.32 |
| 46 | 35.00 | 96.36 | 0.77 | 0.82 | | 0.82 | | 1.48 | 1.48 | 1.85 | 1.86 | 3.01 | 3.04 |
| 47 | 35.50 | 96.51 | 0.69 | 0.73 | | 0.73 | | 1.36 | 1.36 | 1.71 | 1.72 | 2.81 | 2.84 |
| 48 | 36.00 | 97.26 | 0.26 | 0.28 | | 0.28 | | 0.69 | 0.69 | 0.91 | 0.92 | 1.64 | 1.66 |
| 49 | 37.00 | 97.26 | 0.05 | 0.05 | | 0.05 | | 0.13 | 0.13 | 0.18 | 0.18 | 0.32 | 0.32 |
| 50 | 38.00 | 97.65 | | 0.01 | | 0.01 | | 0.09 | 0.10 | 0.14 | 0.14 | 0.27 | 0.27 |
| 51 | 38.40 | 97.70 | | 0.00 | | 0.00 | | 0.09 | 0.09 | 0.13 | 0.13 | 0.26 | 0.27 |
| 52 | 39.20 | 98.18 | | | | | | 0.03 | 0.03 | 0.07 | 0.07 | 0.20 | 0.20 |
| 53 | 44.10 | 101.30 | | | | | | | | | | | |
| 54 | 44.22 | 101.42 | | | | | | | | | | | |
| Total | | | | 0 * | | 0 * | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.2 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | | |
|---|-------|----------|------|-------------|------|-------|------|--------|------|--------|------|--------|------|------|
| Transect 2 | | | | | | | | | | | | | | |
| Rv | Pt | WSE (ft) | | 99.98 | | | | 100.41 | | 100.59 | | 101.03 | | |
| | | Sta | Elev | 41.00 | | 102.5 | | 144 | | 300.00 | | | | |
| | | | | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev | Orig | Rev |
| 1 | 0.00 | 102.93 | | | | | | | | | | | | |
| 2 | 1.80 | 101.30 | | | | | | | | | | | | |
| 3 | 2.10 | 100.20 | | | | | | | 0.05 | 0.05 | 0.08 | 0.09 | 0.20 | 0.22 |
| 4 | 2.60 | 99.99 | | | | | | | 0.07 | 0.08 | 0.11 | 0.12 | 0.23 | 0.26 |
| 5 | 2.70 | 98.99 | | 0.09 | 0.09 | | 0.10 | | 0.17 | 0.19 | 0.22 | 0.24 | 0.36 | 0.40 |
| 6 | 3.50 | 98.99 | | 0.55 | 0.55 | | 0.55 | | 1.04 | 1.04 | 1.32 | 1.32 | 2.22 | 2.21 |
| 7 | 4.50 | 98.69 | | 1.33 | 1.32 | | 1.32 | | 2.39 | 2.39 | 3.00 | 3.00 | 4.93 | 4.92 |
| 8 | 5.50 | 99.44 | | 0.88 | 0.87 | | 0.87 | | 1.92 | 1.92 | 2.52 | 2.52 | 4.48 | 4.48 |
| 9 | 6.00 | 99.09 | | 0.46 | 0.46 | | 0.46 | | 0.89 | 0.89 | 1.13 | 1.13 | 1.92 | 1.92 |
| 10 | 6.50 | 99.09 | | 0.85 | 0.84 | | 0.84 | | 1.64 | 1.64 | 2.09 | 2.09 | 3.55 | 3.55 |
| 11 | 7.00 | 99.09 | | 1.41 | 1.40 | | 1.40 | | 2.72 | 2.71 | 3.47 | 3.47 | 5.90 | 5.89 |
| 12 | 7.50 | 99.09 | | 1.76 | 1.75 | | 1.75 | | 3.39 | 3.39 | 4.33 | 4.33 | 7.36 | 7.35 |
| 13 | 8.00 | 99.09 | | 2.09 | 2.08 | | 2.08 | | 4.02 | 4.02 | 5.14 | 5.14 | 8.74 | 8.73 |
| 14 | 8.50 | 98.59 | | 1.65 | 1.64 | | 1.64 | | 2.93 | 2.93 | 3.66 | 3.66 | 5.98 | 5.98 |
| 15 | 9.00 | 98.79 | | 1.47 | 1.46 | | 1.46 | | 2.68 | 2.68 | 3.37 | 3.37 | 5.58 | 5.58 |
| 16 | 9.50 | 98.79 | | 1.88 | 1.87 | | 1.87 | | 3.43 | 3.42 | 4.31 | 4.31 | 7.14 | 7.13 |
| 17 | 10.00 | 98.89 | | 2.51 | 2.50 | | 2.50 | | 4.65 | 4.64 | 5.87 | 5.87 | 9.80 | 9.79 |
| 18 | 10.50 | 98.89 | | 1.69 | 1.68 | | 1.68 | | 3.13 | 3.13 | 3.95 | 3.95 | 6.60 | 6.59 |
| 19 | 11.00 | 98.79 | | 1.73 | 1.72 | | 1.72 | | 3.15 | 3.15 | 3.97 | 3.96 | 6.57 | 6.56 |
| 20 | 11.50 | 98.89 | | 1.46 | 1.45 | | 1.45 | | 2.70 | 2.70 | 3.42 | 3.41 | 5.70 | 5.69 |
| 21 | 12.00 | 98.79 | | 0.94 | 0.94 | | 0.94 | | 1.71 | 1.71 | 2.16 | 2.15 | 3.57 | 3.57 |
| 22 | 12.50 | 98.59 | | 1.24 | 1.23 | | 1.23 | | 2.20 | 2.20 | 2.75 | 2.75 | 4.50 | 4.49 |
| 23 | 13.00 | 98.89 | | 1.12 | 1.11 | | 1.11 | | 2.07 | 2.07 | 2.62 | 2.62 | 4.37 | 4.37 |
| 24 | 14.00 | 98.49 | | 1.25 | 1.24 | | 1.24 | | 2.20 | 2.20 | 2.74 | 2.74 | 4.45 | 4.44 |
| 25 | 15.00 | 98.79 | | 1.13 | 1.12 | | 1.12 | | 2.06 | 2.06 | 2.59 | 2.59 | 4.29 | 4.29 |
| 26 | 16.00 | 98.99 | | 0.64 | 0.64 | | 0.64 | | 1.21 | 1.21 | 1.53 | 1.53 | 2.58 | 2.58 |
| 27 | 17.00 | 98.39 | | 1.49 | 1.48 | | 1.48 | | 2.60 | 2.60 | 3.22 | 3.22 | 5.21 | 5.20 |
| 28 | 17.50 | 98.59 | | 1.94 | 1.93 | | 1.93 | | 3.45 | 3.45 | 4.31 | 4.30 | 7.03 | 7.03 |
| 29 | 18.00 | 98.59 | | 1.74 | 1.73 | | 1.73 | | 3.09 | 3.09 | 3.86 | 3.86 | 6.31 | 6.30 |
| 30 | 18.50 | 98.39 | | 1.06 | 1.06 | | 1.06 | | 1.85 | 1.85 | 2.29 | 2.29 | 3.70 | 3.70 |
| 31 | 19.00 | 98.29 | | 1.01 | 1.01 | | 1.01 | | 1.75 | 1.74 | 2.16 | 2.16 | 3.47 | 3.47 |
| 32 | 19.50 | 98.39 | | 1.39 | 1.38 | | 1.38 | | 2.42 | 2.42 | 3.01 | 3.01 | 4.86 | 4.85 |
| 33 | 20.00 | 98.19 | | 1.90 | 1.89 | | 1.89 | | 3.26 | 3.26 | 4.03 | 4.02 | 6.44 | 6.44 |
| 34 | 20.50 | 98.29 | | 2.27 | 2.26 | | 2.26 | | 3.92 | 3.92 | 4.86 | 4.85 | 7.81 | 7.80 |
| 35 | 21.00 | 98.39 | | 2.57 | 2.56 | | 2.56 | | 4.48 | 4.48 | 5.56 | 5.56 | 8.98 | 8.97 |
| 36 | 21.50 | 98.69 | | 2.58 | 2.57 | | 2.57 | | 4.64 | 4.64 | 5.81 | 5.81 | 9.56 | 9.55 |
| 37 | 22.00 | 98.69 | | 2.64 | 2.63 | | 2.63 | | 4.75 | 4.74 | 5.95 | 5.95 | 9.78 | 9.77 |
| 38 | 22.50 | 98.69 | | 2.36 | 2.35 | | 2.35 | | 4.24 | 4.24 | 5.32 | 5.31 | 8.74 | 8.74 |
| 39 | 23.00 | 98.89 | | 1.92 | 1.91 | | 1.91 | | 3.55 | 3.55 | 4.49 | 4.49 | 7.49 | 7.49 |
| 40 | 24.00 | 98.89 | | 2.11 | 2.10 | | 2.10 | | 3.91 | 3.90 | 4.94 | 4.93 | 8.24 | 8.23 |
| 41 | 25.00 | 99.49 | | 1.66 | 1.64 | | 1.64 | | 3.72 | 3.72 | 4.92 | 4.91 | 8.82 | 8.81 |
| 42 | 26.00 | 99.59 | | 0.65 | 0.64 | | 0.64 | | 1.56 | 1.56 | 2.10 | 2.10 | 3.83 | 3.83 |
| 43 | 26.65 | 99.99 | | | | | | | 1.00 | 1.00 | 1.49 | 1.49 | 3.08 | 3.08 |
| 44 | 28.05 | 101.54 | | | | | | | | | | | | |
| Total | | | | | | 0 * | | 0 * | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.3 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | |
|---|----|----------|--------|-------------|------|---|--------|----------------|------|-------------|------|-------------|-------|
| Transect 3 | | | | | | | | | | | | | |
| Rv | Pt | WSE (ft) | | 96.91 41 | | | | 97.31 102.5 | | 97.5 144 | | 97.9 300 | |
| | | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev | Orig |
| | 1 | 0.00 | 100.46 | | | | | | | | | | |
| | 2 | 0.10 | 100.40 | | | | | | | | | | |
| | 3 | 1.45 | 98.12 | | | | | | | | | | |
| | 4 | 3.40 | 97.92 | | | | | | | | | | |
| | 5 | 3.70 | 97.02 | | | | | 0.31 | 0.46 | 0.47 | 0.71 | 0.97 | 1.48 |
| | 6 | 4.20 | 97.22 | | | | | 0.14 | 0.21 | 0.32 | 0.49 | 0.82 | 1.25 |
| | 7 | 4.80 | 96.93 | | | | | 0.37 | 0.55 | 0.53 | 0.81 | 1.03 | 1.58 |
| | 8 | 5.20 | 96.73 | 0.20 | 0.17 | | 0.25 | 0.49 | 0.74 | 0.66 | 0.99 | 1.17 | 1.79 |
| | 9 | 5.80 | 96.88 | 0.40 | 0.27 | | 0.40 | 2.03 | 3.05 | 2.86 | 4.33 | 5.41 | 8.26 |
| | 10 | 6.10 | 96.73 | 0.92 | 0.80 | | 1.16 * | 2.26 | 3.39 | 3.02 | 4.57 | 5.39 | 8.23 |
| * | 11 | 7.00 | 96.83 | 0.98 | 0.79 | | 0.83 | 3.37 | 3.65 | 4.65 | 5.08 | 8.60 | 9.49 |
| * | 12 | 7.90 | 96.33 | 3.18 | 2.88 | | 2.33 * | 5.33 | 4.43 | 6.67 | 5.59 | 10.85 | 9.19 |
| * | 13 | 9.00 | 96.53 | 0.22 | 0.20 | | 0.70 * | 0.41 | 1.52 | 0.53 | 1.97 | 0.90 | 3.36 |
| | 14 | 10.00 | 96.18 | 0.63 | 0.57 | | 0.83 | 1.00 | 1.50 | 1.23 | 1.87 | 1.97 | 3.01 |
| | 15 | 11.00 | 96.08 | 0.22 | 0.20 | | 0.29 | 0.34 | 0.51 | 0.42 | 0.63 | 0.66 | 1.00 |
| | 16 | 12.00 | 96.13 | 0.95 | 0.87 | | 1.26 * | 1.49 | 2.23 | 1.83 | 2.76 | 2.90 | 4.42 |
| | 17 | 12.20 | 95.73 | 0.25 | 0.23 | | 0.33 | 0.36 | 0.54 | 0.44 | 0.66 | 0.67 | 1.02 |
| | 18 | 12.50 | 96.43 | 0.42 | 0.38 | | 0.55 | 0.74 | 1.11 | 0.94 | 1.41 | 1.55 | 2.37 |
| | 19 | 13.50 | 95.93 | 0.37 | 0.34 | | 0.49 | 0.55 | 0.83 | 0.67 | 1.02 | 1.04 | 1.59 |
| * | 20 | 14.50 | 96.33 | 0.02 | 0.02 | | 1.40 * | 0.03 | 2.66 | 0.04 | 3.35 | 0.07 | 5.52 |
| * | 21 | 15.00 | 96.08 | 3.50 | 3.19 | | 2.96 | 5.41 | 5.16 | 6.63 | 6.37 | 10.44 | 10.15 |
| * | 22 | 15.80 | 95.63 | 4.39 | 4.02 | | 3.39 * | 6.29 | 5.46 | 7.54 | 6.59 | 11.42 | 10.08 |
| * | 23 | 16.50 | 96.63 | 2.40 | 2.13 | | 1.23 * | 5.00 | 2.97 | 6.54 | 3.91 | 11.31 | 6.84 |
| * | 24 | 17.50 | 96.43 | 3.87 | 3.49 | | 1.76 * | 6.82 | 3.53 | 8.62 | 4.50 | 14.28 | 7.54 |
| * | 25 | 17.60 | 95.43 | 3.62 | 3.32 | | 4.02 | 5.09 | 6.34 | 6.05 | 7.60 | 9.05 | 11.49 |
| * | 26 | 19.00 | 95.83 | 4.15 | 3.80 | | 3.02 * | 6.11 | 5.01 | 7.39 | 6.10 | 11.35 | 9.48 |
| * | 27 | 20.00 | 95.63 | 2.82 | 2.58 | | 3.39 * | 4.04 | 5.46 | 4.85 | 6.59 | 7.33 | 10.08 |
| | 28 | 21.00 | 95.63 | 2.19 | 2.01 | | 2.92 * | 3.14 | 4.71 | 3.76 | 5.69 | 5.70 | 8.70 |
| | 29 | 22.00 | 95.73 | 0.48 | 0.44 | | 0.64 | 0.70 | 1.05 | 0.84 | 1.27 | 1.28 | 1.95 |
| * | 30 | 23.00 | 95.43 | 0.61 | 0.56 | | 1.31 * | 0.86 | 2.06 | 1.02 | 2.47 | 1.53 | 3.73 |
| * | 31 | 24.00 | 95.93 | 4.53 | 4.14 | | 3.30 * | 6.79 | 5.58 | 8.24 | 6.83 | 12.78 | 10.70 |
| * | 32 | 25.00 | 95.83 | 5.35 | 4.90 | | 3.53 * | 7.88 | 5.85 | 9.52 | 7.12 | 14.63 | 11.06 |
| | 33 | 26.00 | 95.63 | 2.37 | 2.17 | | 3.16 * | 3.40 | 5.10 | 4.07 | 6.15 | 6.16 | 9.42 |
| * | 34 | 27.00 | 96.63 | 3.70 | 3.28 | | 1.43 * | 7.71 | 3.47 | 10.08 | 4.56 | 17.43 | 7.98 |
| * | 35 | 28.00 | 96.43 | 4.23 | 3.82 | | 2.05 * | 7.45 | 4.12 | 9.43 | 5.26 | 15.61 | 8.80 |
| | 36 | 28.50 | 96.33 | 0.82 | 0.74 | | 1.08 * | 1.37 | 2.06 | 1.72 | 2.60 | 2.80 | 4.27 |
| * | 37 | 29.30 | 96.58 | 0.20 | 0.18 | | 0.44 * | 0.39 | 0.99 | 0.51 | 1.29 | 0.87 | 2.23 |
| | 38 | 29.40 | 96.93 | | | | | 0.25 | 0.64 | 0.37 | 0.93 | 0.71 | 1.82 |
| | 39 | 30.65 | 99.00 | | | | | | | | | | |
| Total | | | | | 0 * | | 19 * | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.4 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | |
|---|-------|-------------|-------------|--------------|--------|------|--------|--------|------|--------|------|--------|------|
| Transect 4 | | | | | | | | | | | | | |
| Rv | Pt | WSE (ft) | | 98.42 | | | | 99.04 | | 99.31 | | 99.95 | |
| | | Disch (cfs) | | 41.00 | | | | 102.50 | | 144.00 | | 300.00 | |
| | | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev | Orig |
| 1 | 0.00 | 99.50 | | | | | | | | | | 0.30 | 0.34 |
| 2 | 0.10 | 99.40 | | | | | | | | | | 0.34 | 0.38 |
| 3 | 1.10 | 98.87 | | | | | | 0.11 | 0.12 | 0.23 | 0.25 | 0.54 | 0.60 |
| 4 | 1.25 | 98.46 | | | | | | 0.25 | 0.27 | 0.36 | 0.39 | 0.67 | 0.75 |
| 5 | 2.50 | 97.36 | 0.31 | 0.30 | | 0.30 | | 0.52 | 0.55 | 0.63 | 0.68 | 0.96 | 1.08 |
| 6 | 3.00 | 97.16 | 0.08 | 0.08 | | 0.11 | | 0.13 | 0.20 | 0.16 | 0.25 | 0.23 | 0.39 |
| 7 | 3.50 | 97.41 | 0.40 | 0.39 | | 0.39 | | 0.68 | 0.72 | 0.83 | 0.89 | 1.27 | 1.42 |
| 8 | 4.00 | 97.26 | 0.26 | 0.25 | | 0.25 | | 0.43 | 0.45 | 0.52 | 0.56 | 0.78 | 0.88 |
| 9 | 4.50 | 96.46 | 0.19 | 0.18 | | 0.18 | | 0.28 | 0.29 | 0.33 | 0.35 | 0.47 | 0.53 |
| 10 | 5.00 | 96.36 | 0.20 | 0.19 | | 0.19 | | 0.29 | 0.31 | 0.34 | 0.37 | 0.49 | 0.55 |
| 11 | 5.50 | 96.36 | 0.28 | 0.27 | | 0.27 | | 0.41 | 0.43 | 0.48 | 0.52 | 0.69 | 0.78 |
| 12 | 6.00 | 96.36 | 0.34 | 0.33 | | 0.33 | | 0.50 | 0.53 | 0.59 | 0.64 | 0.85 | 0.96 |
| 13 | 6.50 | 95.96 | 0.98 | 0.96 | | 0.95 | | 1.41 | 1.50 | 1.65 | 1.78 | 2.33 | 2.63 |
| 14 | 7.00 | 95.96 | 1.40 | 1.37 | | 1.36 | | 2.02 | 2.14 | 2.35 | 2.55 | 3.34 | 3.76 |
| 15 | 7.50 | 96.16 | 1.79 | 1.75 | | 1.74 | | 2.61 | 2.77 | 3.06 | 3.31 | 4.36 | 4.91 |
| 16 | 8.00 | 96.16 | 1.62 | 1.59 | | 1.58 | | 2.37 | 2.51 | 2.77 | 3.00 | 3.96 | 4.46 |
| 17 | 8.50 | 95.66 | 1.58 | 1.55 | | 1.54 | | 2.26 | 2.39 | 2.62 | 2.84 | 3.68 | 4.14 |
| 18 | 9.00 | 95.66 | 1.45 | 1.43 | | 1.42 | | 2.07 | 2.19 | 2.40 | 2.60 | 3.38 | 3.80 |
| 19 | 9.50 | 95.66 | 1.12 | 1.10 | | 1.09 | | 1.59 | 1.69 | 1.85 | 2.00 | 2.60 | 2.92 |
| 20 | 10.00 | 95.66 | 1.32 | 1.30 | | 1.29 | | 1.89 | 2.00 | 2.19 | 2.37 | 3.07 | 3.46 |
| 21 | 10.50 | 96.76 | 0.95 | 0.93 | | 0.92 | | 1.46 | 1.54 | 1.73 | 1.87 | 2.53 | 2.85 |
| 22 | 11.00 | 97.06 | 0.78 | 0.76 | | 0.76 | | 1.24 | 1.31 | 1.49 | 1.61 | 2.22 | 2.50 |
| 23 | 11.50 | 97.26 | 0.93 | 0.90 | | 0.90 | | 1.53 | 1.62 | 1.85 | 2.00 | 2.80 | 3.15 |
| 24 | 12.00 | 97.16 | 1.54 | 1.50 | | 1.49 | | 2.48 | 2.63 | 2.99 | 3.24 | 4.50 | 5.06 |
| 25 | 12.50 | 96.16 | 1.69 | 1.65 | | 1.64 | | 2.47 | 2.61 | 2.89 | 3.12 | 4.12 | 4.64 |
| 26 | 13.00 | 96.16 | 1.75 | 1.72 | | 1.71 | | 2.56 | 2.71 | 3.00 | 3.25 | 4.28 | 4.82 |
| 27 | 13.50 | 96.31 | 1.96 | 1.92 | | 1.91 | | 2.90 | 3.07 | 3.40 | 3.68 | 4.88 | 5.49 |
| 28 | 14.00 | 96.56 | 2.61 | 2.56 | | 2.54 | | 3.93 | 4.16 | 4.64 | 5.02 | 6.73 | 7.58 |
| 29 | 14.50 | 96.46 | 2.35 | 2.30 | | 2.29 | | 3.51 | 3.72 | 4.13 | 4.48 | 5.97 | 6.72 |
| 30 | 15.00 | 96.31 | 2.01 | 1.97 | | 1.96 | | 2.97 | 3.15 | 3.49 | 3.77 | 5.00 | 5.63 |
| 31 | 15.50 | 96.31 | 0.77 | 0.76 | | 0.75 | | 1.14 | 1.20 | 1.34 | 1.45 | 1.92 | 2.16 |
| 32 | 16.00 | 96.41 | 1.94 | 1.90 | | 1.89 | | 2.89 | 3.06 | 3.39 | 3.68 | 4.89 | 5.51 |
| * | 33 | 17.00 | 96.66 | 0.24 | 0.23 | | 0.64 * | 0.36 | 1.07 | 0.43 | 1.29 | 0.63 | 1.95 |
| * | 34 | 17.50 | 97.06 | 0.24 | 0.23 | | 0.54 * | 0.38 | 0.94 | 0.46 | 1.16 | 0.68 | 1.79 |
| | 35 | 18.00 | 97.16 | 1.52 | 1.48 | | 1.47 | 2.45 | 2.60 | 2.95 | 3.20 | 4.44 | 4.99 |
| * | 36 | 18.50 | 97.16 | 3.40 | 3.31 | | 2.06 * | 5.49 | 3.64 | 6.60 | 4.48 | 9.92 | 7.00 |
| | 37 | 19.00 | 97.96 | 1.55 | 1.46 | | 1.46 | 3.27 | 3.47 | 4.18 | 4.53 | 6.85 | 7.70 |
| * | 38 | 19.50 | 97.86 | 1.95 | 1.85 | | 1.50 * | 3.87 | 3.33 | 4.88 | 4.30 | 7.88 | 7.21 |
| * | 39 | 20.00 | 97.96 | 3.55 | 3.34 | | 1.39 * | 7.50 | 3.31 | 9.57 | 4.32 | 15.68 | 7.35 |
| * | 40 | 20.50 | 98.26 | 3.13 | 2.68 | | 2.44 * | 9.83 | 4.39 | 13.17 | 5.43 | 22.90 | 8.54 |
| * | 41 | 21.00 | 97.86 | 2.46 | 2.33 | | 1.72 * | 4.88 | 3.81 | 6.16 | 4.92 | 9.94 | 8.25 |
| | 42 | 21.50 | 97.91 | 1.00 | 0.94 | | 0.94 | 2.04 | 2.16 | 2.59 | 2.81 | 4.21 | 4.74 |
| * | 43 | 22.00 | 97.86 | -0.10 | -0.09 | | 0.60 * | -0.20 | 1.33 | -0.25 | 1.72 | -0.40 | 2.89 |
| | 44 | 22.50 | 98.26 | 1.05 | 0.90 | | 0.92 | 3.30 | 3.49 | 4.42 | 4.79 | 7.68 | 8.64 |
| * | 45 | 23.00 | 98.36 | 1.08 | 0.76 * | | 0.48 * | 4.92 | 3.07 | 6.76 | 4.32 | 12.07 | 8.01 |
| * | 46 | 23.50 | 98.26 | 2.55 | 2.18 | | 0.89 * | 8.01 | 3.37 | 10.73 | 4.62 | 18.65 | 8.35 |
| | 47 | 24.00 | 98.26 | 0.49 | 0.42 | | 0.43 | 1.54 | 1.63 | 2.06 | 2.23 | 3.58 | 4.03 |
| * | 48 | 24.10 | 97.96 | 0.42 | 0.39 | | 0.66 * | 0.89 | 1.57 | 1.13 | 2.05 | 1.85 | 3.49 |
| | 49 | 24.80 | 98.26 | 1.21 | 1.03 | | 1.06 | 3.80 | 4.02 | 5.09 | 5.52 | 8.85 | 9.96 |
| | 50 | 25.45 | 98.46 | | | | | 3.12 | 3.30 | 4.42 | 4.79 | 8.14 | 9.16 |
| | 51 | 26.60 | 99.41 | | | | | | | | | 4.13 | 4.65 |
| | 52 | 27.30 | 99.85 | | | | | | | | | 1.36 | 1.53 |
| | 53 | 27.40 | 100.04 | | | | | | | | | | |
| Total | | | | | 1 * | | 11 * | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.5 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | | |
|---|----|-------------|-------|-------|-------------|-----|--------|--------|-------|-------|-------|--------|-------|------|
| Transect 5 | | | | | | | | | | | | | | |
| | | WSE (ft) | | 92.41 | | | | 94.68 | | 94.88 | | 95.36 | | |
| | | Disch (cfs) | | 41.00 | | | | 102.5 | | 144 | | 300.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev | Orig | Rev |
| | | 1 | 0.00 | 96.59 | | | | | | | | | | |
| | | 2 | 0.10 | 96.51 | | | | | | | | | | |
| | | 3 | 1.90 | 95.13 | | | | | | | | | 0.12 | 0.35 |
| | | 4 | 3.50 | 94.77 | | | | | | | | | 0.23 | 0.64 |
| | | 5 | 3.80 | 94.29 | | | | | 0.11 | 0.30 | 0.17 | 0.47 | 0.35 | 0.96 |
| | | 6 | 4.10 | 94.26 | | | | | 0.12 | 0.32 | 0.17 | 0.48 | 0.35 | 0.97 |
| | | 7 | 5.10 | 94.06 | | | 0.04 | 0.10 | 0.15 | 0.41 | 0.21 | 0.58 | 0.40 | 1.09 |
| | | 8 | 5.50 | 94.11 | | | 0.03 | 0.09 | 0.14 | 0.47 | 0.20 | 0.67 | 0.39 | 1.29 |
| | | 9 | 6.00 | 93.86 | | | 0.07 | 0.11 | 0.18 | 0.31 | 0.24 | 0.42 | 0.44 | 0.75 |
| | | 10 | 6.50 | 93.71 | 0.11 | | 0.09 | 0.13 | 0.20 | 0.31 | 0.27 | 0.41 | 0.47 | 0.71 |
| | | 11 | 7.00 | 93.81 | 0.16 | | 0.12 | 0.18 | 0.31 | 0.48 | 0.42 | 0.64 | 0.74 | 1.14 |
| | | 12 | 7.50 | 93.06 | 0.43 | | 0.35 | 0.52 | 0.66 | 1.01 | 0.83 | 1.28 | 1.35 | 2.06 |
| | | 13 | 8.00 | 93.01 | 0.27 | | 0.22 | 0.33 | 0.41 | 0.63 | 0.52 | 0.80 | 0.84 | 1.28 |
| | | 14 | 8.50 | 93.06 | 0.59 | | 0.48 | 0.71 | 0.90 | 1.39 | 1.14 | 1.75 | 1.85 | 2.83 |
| | | 15 | 9.00 | 92.91 | 0.58 | | 0.47 | 0.70 | 0.87 | 1.34 | 1.09 | 1.68 | 1.75 | 2.68 |
| | | 16 | 9.50 | 92.91 | 0.92 | | 0.74 | 1.12 | 1.38 | 2.13 | 1.73 | 2.67 | 2.78 | 4.26 |
| | | 17 | 10.00 | 93.06 | 1.41 | | 1.14 | 1.71 * | 2.16 | 3.32 | 2.71 | 4.19 | 4.42 | 6.77 |
| | | 18 | 10.50 | 92.36 | 2.32 | | 1.89 | 2.84 * | 3.32 | 5.11 | 4.08 | 6.30 | 6.39 | 9.78 |
| * | | 19 | 11.00 | 92.36 | 3.89 | | 3.16 | 2.71 * | 5.56 | 4.88 | 6.84 | 6.03 | 10.72 | 9.34 |
| * | | 20 | 11.50 | 92.56 | 3.00 | | 2.44 | 2.51 | 4.35 | 4.60 | 5.38 | 5.70 | 8.50 | 8.92 |
| * | | 21 | 12.00 | 93.06 | 3.40 | | 2.74 | 2.25 * | 5.20 | 4.39 | 6.55 | 5.54 | 10.66 | 8.94 |
| * | | 22 | 12.50 | 93.36 | 1.53 | | 1.22 * | 1.52 | 2.47 | 3.15 | 3.17 | 4.05 | 5.30 | 6.71 |
| * | | 23 | 13.00 | 94.06 | 4.53 | | 3.12 * | 0.81 * | 12.13 | 3.24 | 17.00 | 4.55 | 32.17 | 8.55 |
| | | 24 | 13.50 | 92.86 | 0.83 | | 0.67 | 1.01 | 1.24 | 1.91 | 1.55 | 2.39 | 2.48 | 3.80 |
| | | 25 | 14.00 | 92.86 | 1.73 | | 1.40 | 2.10 * | 2.58 | 3.97 | 3.22 | 4.98 | 5.18 | 7.92 |
| * | | 26 | 14.50 | 92.46 | 0.95 | | 0.77 | 2.09 * | 1.37 | 3.79 | 1.69 | 4.69 | 2.65 | 7.31 |
| * | | 27 | 15.00 | 92.86 | 2.76 | | 2.23 | 2.20 * | 4.12 | 4.15 | 5.14 | 5.20 | 8.26 | 8.27 |
| * | | 28 | 15.50 | 91.96 | 2.64 | | 2.15 | 2.91 | 3.69 | 5.11 | 4.51 | 6.26 | 6.96 | 9.56 |
| * | | 29 | 16.00 | 92.36 | 3.29 | | 2.68 | 2.71 | 4.70 | 4.88 | 5.79 | 6.03 | 9.07 | 9.34 |
| * | | 30 | 16.50 | 92.61 | 3.27 | | 2.65 | 2.46 * | 4.76 | 4.53 | 5.90 | 5.62 | 9.34 | 8.82 |
| * | | 31 | 17.00 | 92.61 | 2.61 | | 2.12 | 2.62 | 3.80 | 4.83 | 4.71 | 6.00 | 7.46 | 9.40 |
| * | | 32 | 17.50 | 92.06 | 2.76 | | 2.25 | 3.00 | 3.88 | 5.30 | 4.75 | 6.50 | 7.35 | 9.96 |
| * | | 33 | 18.00 | 92.46 | 2.79 | | 2.27 | 2.79 | 4.01 | 5.06 | 4.95 | 6.26 | 7.79 | 9.74 |
| * | | 34 | 18.50 | 92.56 | 2.33 | | 1.89 | 2.36 | 3.38 | 4.33 | 4.18 | 5.37 | 6.60 | 8.40 |
| * | | 35 | 19.00 | 92.76 | 2.77 | | 2.24 | 2.63 | 4.09 | 4.92 | 5.09 | 6.14 | 8.12 | 9.71 |
| * | | 36 | 19.50 | 92.96 | 2.77 | | 2.24 | 2.57 | 4.18 | 4.92 | 5.24 | 6.18 | 8.47 | 9.91 |
| * | | 37 | 20.00 | 92.66 | 2.38 | | 1.93 | 2.57 | 3.48 | 4.75 | 4.32 | 5.91 | 6.86 | 9.29 |
| * | | 38 | 20.50 | 93.26 | 2.24 | | 1.79 * | 2.14 | 3.55 | 4.33 | 4.51 | 5.52 | 7.47 | 9.06 |
| | | 39 | 21.00 | 94.74 | | | | | | | 0.88 | 1.09 | 3.29 | 4.02 |
| | | 40 | 21.50 | 94.83 | | | | | | | 0.45 | 0.56 | 2.96 | 3.63 |
| | | 41 | 22.60 | 93.96 | | | 0.74 * | | 2.25 | 0.35 | 3.09 | 1.51 | 5.69 | 4.40 |
| | | 42 | 23.00 | 94.47 | | | | | 1.00 | 1.21 | 1.80 | 2.21 | 4.19 | 5.11 |
| | | 43 | 23.50 | 94.83 | | | | | | | 0.45 | 0.56 | 2.96 | 3.63 |
| | | 44 | 24.00 | 94.82 | | | | | | | 0.51 | 0.63 | 2.99 | 3.67 |
| | | 45 | 24.50 | 91.76 | | | 3.38 * | | 5.74 | 0.70 | 6.99 | 1.75 | 10.72 | 4.64 |
| | | 46 | 25.00 | 91.76 | | | 3.38 * | | 5.74 | 0.70 | 6.99 | 1.75 | 10.72 | 4.64 |
| | | 47 | 25.50 | 94.36 | | | | | 1.32 | 1.60 | 2.11 | 2.59 | 4.54 | 5.53 |
| | | 48 | 26.00 | 94.21 | | | 0.03 | | 1.70 | 1.77 | 2.50 | 2.75 | 4.98 | 5.71 |
| | | 49 | 26.50 | 94.21 | | | 0.03 | | 1.70 | 1.77 | 2.50 | 2.75 | 4.98 | 5.71 |
| | | 50 | 27.20 | 94.26 | | | | | 1.58 | 1.92 | 2.37 | 2.91 | 4.84 | 5.89 |
| | | 51 | 28.30 | 95.05 | | | | | | | | | 2.06 | 2.55 |
| | | 52 | 29.30 | 95.65 | | | | | | | | | | |
| | | 53 | 30.80 | 96.88 | | | | | | | | | | |
| | | 54 | 31.06 | 97.48 | | | | | | | | | | |
| Total | | | | | | 6 * | | 9 * | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.6 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | | | | | |
|---|----|-------|-------|------|------|-------------|--------|--------|------|--------|------|------|------|------|------|------|------|
| Transect 6 | | | | | | | | | | | | | | | | | |
| WSE (ft) | | 94.51 | | | | 95.75 | | 96.37 | | 98.08 | | | | | | | |
| Disch (cfs) | | 41.00 | | | | 102.50 | | 144.00 | | 300.00 | | | | | | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * Rev | * Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev | | | |
| | 1 | 0.00 | 97.81 | | | | | | | | | | 0.98 | 0.32 | | | |
| | 2 | 0.10 | 97.69 | | | | | | | | | | 1.25 | 0.41 | | | |
| | 3 | 1.10 | 96.60 | | | | | | | | | | 3.05 | 1.00 | | | |
| | 4 | 3.20 | 95.99 | | | | | | | | | | 3.84 | 1.27 | | | |
| | 5 | 8.40 | 95.65 | | | | | | | | | | 4.25 | 1.40 | | | |
| | 6 | 9.40 | 96.65 | | | | | 0.77 | 0.20 | | 2.53 | 0.69 | 2.98 | 0.98 | | | |
| | 7 | 9.85 | 94.41 | | | 1.07 | * | 0.24 | * | 4.33 | 1.11 | 4.96 | 1.35 | 5.60 | 1.84 | | |
| | 8 | 10.00 | 94.31 | | | 1.70 | * | 0.39 | * | 4.54 | 1.16 | 5.12 | 1.39 | 5.70 | 1.88 | | |
| | 9 | 11.00 | 94.31 | | | 1.70 | * | 0.39 | * | 4.54 | 1.16 | 5.12 | 1.39 | 5.70 | 1.88 | | |
| * | 10 | 12.00 | 94.26 | | | 1.97 | * | 0.45 | * | 4.65 | 1.19 | 5.21 | 1.41 | 5.75 | 1.89 | | |
| | 11 | 13.00 | 93.76 | | | 4.69 | | 4.10 | | 3.92 | 5.64 | 6.05 | 6.01 | 6.85 | 6.24 | 8.64 | |
| | 12 | 14.00 | 94.61 | | | | | | | | 0.48 | 0.52 | 0.57 | 0.65 | 0.67 | 0.93 | |
| | 13 | 15.00 | 94.01 | | | 0.42 | | 0.39 | | 0.37 | 0.64 | 0.69 | 0.70 | 0.79 | 0.74 | 1.03 | |
| * | 14 | 15.50 | 92.61 | | | 0.35 | | 0.29 | | 1.09 | * | 0.29 | 1.22 | 0.29 | 1.30 | 0.28 | 1.51 |
| * | 15 | 16.00 | 92.61 | | | 0.65 | | 0.54 | | 1.09 | * | 0.54 | 1.22 | 0.54 | 1.30 | 0.51 | 1.51 |
| * | 16 | 16.50 | 92.61 | | | 0.52 | | 0.43 | | 1.09 | * | 0.43 | 1.22 | 0.43 | 1.30 | 0.41 | 1.51 |
| * | 17 | 17.00 | 92.61 | | | 0.69 | | 0.57 | | 1.09 | * | 0.57 | 1.22 | 0.57 | 1.30 | 0.54 | 1.51 |
| | 18 | 17.50 | 92.61 | | | 2.70 | | 2.22 | | 2.13 | * | 2.23 | 2.39 | 2.23 | 2.55 | 2.13 | 2.95 |
| | 19 | 18.00 | 92.96 | | | 3.92 | | 3.26 | | 3.11 | * | 3.45 | 3.71 | 3.51 | 4.00 | 3.42 | 4.73 |
| | 20 | 18.50 | 93.46 | | | 4.45 | | 3.78 | | 3.61 | | 4.56 | 4.89 | 4.75 | 5.42 | 4.81 | 6.65 |
| | 21 | 19.00 | 93.46 | | | 2.06 | | 1.75 | | 1.67 | | 2.11 | 2.27 | 2.20 | 2.51 | 2.22 | 3.08 |
| | 22 | 19.50 | 93.41 | | | 1.20 | | 1.02 | | 0.97 | | 1.20 | 1.29 | 1.25 | 1.43 | 1.26 | 1.75 |
| | 23 | 20.00 | 93.21 | | | 1.07 | | 0.90 | | 0.86 | | 1.00 | 1.08 | 1.03 | 1.18 | 1.02 | 1.42 |
| | 24 | 20.50 | 93.11 | | | 3.75 | | 3.13 | | 2.99 | * | 3.42 | 3.68 | 3.50 | 4.00 | 3.45 | 4.77 |
| | 25 | 21.00 | 92.26 | | | 4.23 | | 3.46 | | 3.31 | * | 3.32 | 3.57 | 3.30 | 3.76 | 3.09 | 4.27 |
| | 26 | 21.50 | 92.21 | | | 4.07 | | 3.33 | | 3.18 | * | 3.18 | 3.41 | 3.15 | 3.59 | 2.94 | 4.07 |
| | 27 | 22.00 | 93.01 | | | 3.88 | | 3.23 | | 3.09 | * | 3.46 | 3.71 | 3.52 | 4.01 | 3.44 | 4.76 |
| | 28 | 22.50 | 93.06 | | | 2.81 | | 2.34 | | 2.24 | * | 2.53 | 2.72 | 2.59 | 2.95 | 2.54 | 3.51 |
| | 29 | 23.00 | 92.41 | | | 1.82 | | 1.49 | | 1.43 | * | 1.46 | 1.56 | 1.45 | 1.66 | 1.37 | 1.90 |
| | 30 | 23.50 | 92.21 | | | 0.82 | | 0.67 | | 0.64 | | 0.64 | 0.69 | 0.63 | 0.72 | 0.59 | 0.82 |
| | 31 | 24.00 | 92.26 | | | 1.11 | | 0.91 | | 0.87 | * | 0.87 | 0.94 | 0.86 | 0.99 | 0.81 | 1.12 |
| | 32 | 24.50 | 92.21 | | | 1.66 | | 1.35 | | 1.29 | * | 1.29 | 1.39 | 1.28 | 1.46 | 1.20 | 1.65 |
| | 33 | 25.00 | 92.51 | | | 0.59 | | 0.48 | | 0.46 | | 0.48 | 0.51 | 0.48 | 0.55 | 0.45 | 0.63 |
| | 34 | 25.50 | 92.51 | | | 0.55 | | 0.45 | | 0.43 | | 0.45 | 0.48 | 0.45 | 0.51 | 0.42 | 0.59 |
| | 35 | 26.00 | 92.66 | | | 1.63 | | 1.34 | | 1.28 | * | 1.35 | 1.45 | 1.36 | 1.55 | 1.30 | 1.80 |
| | 36 | 26.50 | 92.51 | | | 0.74 | | 0.61 | | 0.58 | | 0.60 | 0.65 | 0.60 | 0.68 | 0.57 | 0.79 |
| | 37 | 27.00 | 92.51 | | | 1.20 | | 0.99 | | 0.94 | * | 0.97 | 1.05 | 0.97 | 1.11 | 0.92 | 1.28 |
| | 38 | 27.50 | 92.51 | | | 1.14 | | 0.94 | | 0.90 | * | 0.93 | 0.99 | 0.93 | 1.05 | 0.88 | 1.21 |
| | 39 | 28.00 | 92.51 | | | 0.31 | | 0.25 | | 0.24 | | 0.25 | 0.27 | 0.25 | 0.29 | 0.24 | 0.33 |
| | 40 | 28.50 | 92.61 | | | 0.35 | | 0.29 | | 0.28 | | 0.29 | 0.31 | 0.29 | 0.33 | 0.28 | 0.38 |
| | 41 | 29.00 | 92.61 | | | 0.29 | | 0.24 | | 0.23 | | 0.24 | 0.26 | 0.24 | 0.27 | 0.23 | 0.32 |
| | 42 | 29.50 | 93.21 | | | 2.41 | | 2.02 | | 1.93 | | 2.26 | 2.43 | 2.33 | 2.65 | 2.31 | 3.19 |
| | 43 | 30.00 | 93.61 | | | 1.11 | | 0.95 | | 0.91 | | 1.22 | 1.31 | 1.28 | 1.46 | 1.32 | 1.82 |
| * | 44 | 30.50 | 93.81 | | | 0.47 | | 0.41 | | 0.89 | * | 0.59 | 1.42 | 0.63 | 1.61 | 0.66 | 2.04 |
| * | 45 | 31.00 | 93.91 | | | 1.47 | | 1.32 | | 1.26 | | 2.00 | 2.15 | 2.16 | 2.46 | 2.28 | 3.15 |
| | 46 | 32.00 | 93.66 | | | 0.39 | | 0.34 | | 0.56 | | 0.44 | 0.83 | 0.47 | 0.93 | 0.48 | 1.16 |
| | 47 | 33.00 | 94.31 | | | | | 0.13 | | 0.21 | * | 0.34 | 0.64 | 0.39 | 0.77 | 0.43 | 1.04 |
| | 48 | 34.00 | 94.26 | | | | | 0.15 | | 0.25 | * | 0.35 | 0.66 | 0.39 | 0.79 | 0.43 | 1.05 |
| | 49 | 34.50 | 94.36 | | | | | 0.11 | | 0.18 | | 0.34 | 0.63 | 0.38 | 0.76 | 0.43 | 1.03 |
| | 50 | 35.70 | 94.41 | | | | | 0.08 | | 0.14 | | 0.33 | 0.61 | 0.37 | 0.75 | 0.42 | 1.02 |
| | 51 | 36.60 | 94.48 | | | | | 0.04 | | 0.06 | | 0.32 | 0.59 | 0.37 | 0.73 | 0.42 | 1.01 |
| | 52 | 36.80 | 95.05 | | | | | | | | | 0.21 | 0.40 | 0.29 | 0.57 | 0.37 | 0.90 |
| | 53 | 39.40 | 95.36 | | | | | | | | | 0.14 | 0.27 | 0.24 | 0.48 | 0.35 | 0.84 |
| | 54 | 39.91 | 96.70 | | | | | | | | | | | | | 0.22 | 0.53 |
| Total | | | | | | 4 * | | 24 * | | | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.7 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | |
|---|-------|-------|-------|-------------|--------|------|--------|------|--------|------|-------|------|--|
| Transect 7 | | | | | | | | | | | | | |
| WSE (ft) | | 94.73 | | | 95.26 | | 95.49 | | 96.06 | | | | |
| Disch (cfs) | | 41.00 | | | 102.50 | | 144.00 | | 300.00 | | | | |
| Rv | Pt | Sta | Elev | Meas | Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev | |
| 1 | 0.00 | 97.91 | | | | | | | | | | | |
| 2 | 0.10 | 97.80 | | | | | | | | | | | |
| 3 | 2.00 | 96.94 | | | | | | | | | | | |
| 4 | 3.30 | 94.99 | | | | | | | | | | | |
| 5 | 4.80 | 94.72 | | | 0.06 | 0.06 | 0.49 | 0.54 | 0.80 | 0.90 | 1.63 | 1.89 | |
| 6 | 5.00 | 94.22 | | 0.59 | 0.64 | 0.67 | 1.21 | 1.34 | 1.49 | 1.68 | 2.34 | 2.71 | |
| 7 | 6.00 | 93.92 | | 0.83 | 0.90 | 0.94 | 1.47 | 1.63 | 1.77 | 1.99 | 2.66 | 3.08 | |
| 8 | 7.00 | 93.82 | | 1.49 | 1.61 | 1.69 | 2.56 | 2.84 | 3.05 | 3.44 | 4.55 | 5.27 | |
| 9 | 8.00 | 93.97 | | 1.34 | 1.45 | 1.52 | 2.42 | 2.68 | 2.91 | 3.28 | 4.41 | 5.12 | |
| 10 | 9.00 | 94.17 | | 1.21 | 1.32 | 1.38 | 2.40 | 2.66 | 2.94 | 3.32 | 4.59 | 5.32 | |
| 11 | 10.00 | 93.82 | | 0.24 | 0.26 | 0.27 | 0.41 | 0.46 | 0.49 | 0.55 | 0.73 | 0.85 | |
| 12 | 11.00 | 93.77 | | 0.30 | 0.32 | 0.34 | 0.51 | 0.56 | 0.60 | 0.68 | 0.90 | 1.04 | |
| 13 | 12.00 | 94.32 | | 0.88 | 0.96 | 1.01 | 1.96 | 2.17 | 2.44 | 2.75 | 3.91 | 4.53 | |
| 14 | 12.50 | 93.22 | | 1.57 | 1.69 | 1.77 | 2.42 | 2.68 | 2.81 | 3.16 | 3.99 | 4.63 | |
| 15 | 13.00 | 93.22 | | 2.43 | 2.62 | 2.74 | 3.75 | 4.15 | 4.35 | 4.89 | 6.18 | 7.16 | |
| 16 | 13.50 | 93.12 | | 2.56 | 2.76 | 2.89 | 3.91 | 4.33 | 4.51 | 5.08 | 6.38 | 7.39 | |
| 17 | 14.00 | 93.42 | | 2.50 | 2.70 | 2.82 | 3.96 | 4.39 | 4.62 | 5.21 | 6.66 | 7.72 | |
| 18 | 14.50 | 93.12 | | 0.77 | 0.83 | 0.87 | 1.18 | 1.30 | 1.36 | 1.53 | 1.92 | 2.22 | |
| 19 | 15.00 | 93.22 | | 0.45 | 0.48 | 0.51 | 0.69 | 0.77 | 0.80 | 0.91 | 1.14 | 1.33 | |
| 20 | 15.50 | 93.62 | | 1.41 | 1.52 | 1.59 | 2.31 | 2.56 | 2.72 | 3.07 | 3.99 | 4.62 | |
| 21 | 16.00 | 93.52 | | 2.41 | 2.60 | 2.72 | 3.88 | 4.30 | 4.55 | 5.12 | 6.60 | 7.65 | |
| 22 | 16.50 | 93.52 | | 2.21 | 2.39 | 2.50 | 3.56 | 3.94 | 4.17 | 4.70 | 6.05 | 7.02 | |
| 23 | 17.00 | 93.42 | | 2.27 | 2.45 | 2.56 | 3.60 | 3.98 | 4.20 | 4.73 | 6.05 | 7.01 | |
| 24 | 17.50 | 93.32 | | 1.99 | 2.15 | 2.25 | 3.11 | 3.44 | 3.62 | 4.07 | 5.17 | 6.00 | |
| 25 | 18.00 | 92.97 | | 1.65 | 1.78 | 1.86 | 2.48 | 2.75 | 2.85 | 3.21 | 4.00 | 4.64 | |
| 26 | 18.50 | 92.92 | | 1.13 | 1.22 | 1.27 | 1.69 | 1.87 | 1.94 | 2.19 | 2.72 | 3.15 | |
| 27 | 19.00 | 92.97 | | 2.11 | 2.27 | 2.38 | 3.18 | 3.51 | 3.65 | 4.11 | 5.12 | 5.93 | |
| 28 | 19.50 | 93.22 | | 0.66 | 0.71 | 0.74 | 1.02 | 1.13 | 1.18 | 1.33 | 1.68 | 1.94 | |
| 29 | 20.00 | 93.52 | | 0.20 | 0.22 | 0.23 | 0.32 | 0.36 | 0.38 | 0.43 | 0.55 | 0.64 | |
| 30 | 20.50 | 93.82 | | 1.19 | 1.29 | 1.35 | 2.05 | 2.27 | 2.44 | 2.75 | 3.63 | 4.21 | |
| * | 31 | 21.00 | 93.52 | 2.05 | 2.21 | 2.69 | 3.30 | 4.25 | 3.87 | 5.06 | 5.62 | 7.56 | |
| * | 32 | 21.50 | 93.82 | 3.26 | 3.53 | 2.22 | 5.61 | 3.74 | 6.68 | 4.53 | 9.95 | 6.95 | |
| * | 33 | 22.00 | 93.87 | 2.88 | 3.12 | 2.14 | 5.03 | 3.65 | 6.01 | 4.44 | 9.00 | 6.85 | |
| * | 34 | 22.50 | 93.72 | 0.73 | 0.79 | 1.19 | 1.22 | 1.96 | 1.45 | 2.36 | 2.14 | 3.58 | |
| | 35 | 23.00 | 93.07 | 1.11 | 1.20 | 1.25 | 1.69 | 1.87 | 1.94 | 2.19 | 2.74 | 3.18 | |
| | 36 | 23.50 | 93.32 | 1.58 | 1.70 | 1.78 | 2.47 | 2.73 | 2.87 | 3.23 | 4.11 | 4.76 | |
| | 37 | 24.00 | 93.02 | 2.22 | 2.39 | 2.50 | 3.36 | 3.71 | 3.86 | 4.35 | 5.43 | 6.30 | |
| | 38 | 24.50 | 93.22 | 2.43 | 2.62 | 2.74 | 3.75 | 4.15 | 4.35 | 4.89 | 6.18 | 7.16 | |
| | 39 | 25.00 | 93.32 | 1.98 | 2.13 | 2.23 | 3.10 | 3.43 | 3.60 | 4.05 | 5.15 | 5.97 | |
| * | 40 | 25.50 | 94.42 | 2.17 | 2.39 | 1.21 | 5.42 | 2.89 | 6.88 | 3.73 | 11.23 | 6.27 | |
| | 41 | 26.50 | 94.62 | 0.20 | 0.23 | 0.24 | 0.87 | 0.96 | 1.15 | 1.30 | 1.98 | 2.30 | |
| | 42 | 27.50 | 94.57 | 0.10 | 0.11 | 0.12 | 0.35 | 0.39 | 0.46 | 0.51 | 0.77 | 0.89 | |
| | 43 | 28.00 | 95.02 | | | | 0.17 | 0.19 | 0.29 | 0.33 | 0.61 | 0.70 | |
| * | 44 | 28.50 | 94.42 | 1.15 | 1.27 | 1.09 | 2.87 | 2.60 | 3.65 | 3.36 | 5.95 | 5.64 | |
| * | 45 | 29.00 | 94.52 | 1.33 | 1.49 | 0.84 | 4.00 | 2.39 | 5.18 | 3.14 | 8.66 | 5.41 | |
| * | 46 | 30.00 | 94.12 | 2.54 | 2.76 | 1.70 | 4.90 | 3.20 | 5.98 | 3.97 | 9.24 | 6.31 | |
| | 47 | 31.00 | 94.84 | | | | 2.50 | 1.63 | 3.62 | 2.40 | 6.78 | 4.63 | |
| | 48 | 32.30 | 94.52 | | 1.36 | * | 3.66 | 2.39 | 4.74 | 3.14 | 7.92 | 5.41 | |
| | 49 | 32.95 | 94.72 | | 0.22 | * | 2.96 | 1.93 | 4.06 | 2.69 | 7.21 | 4.93 | |
| | 50 | 34.20 | 94.72 | | 0.22 | * | 2.96 | 1.93 | 4.06 | 2.69 | 7.21 | 4.93 | |
| | 51 | 34.30 | 96.96 | | | | | | | | | | |
| | 52 | 35.70 | 97.37 | | | | | | | | | | |
| | 53 | 35.85 | 97.50 | | | | | | | | | | |
| Total | | | | 3 * | | | 8 * | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.9 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 1 | | | | | | | | | | | | | |
|---|-------|-------------|-------------|-------|------|------|-----|--------|------|--------|------|--------|-------|
| Transect 9 | | | | | | | | | | | | | |
| Rv | Pt | WSE (ft) | | 97.06 | | | | 97.99 | | 98.46 | | 99.77 | |
| | | Disch (cfs) | | 41.00 | | | | 102.50 | | 144.00 | | 300.00 | |
| | | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev | Orig |
| 1 | 0.00 | 100.48 | | | | | | | | | | | |
| 2 | 0.10 | 100.35 | | | | | | | | | | | |
| 3 | 0.60 | 99.27 | | | | | | | | | | 0.10 | 0.10 |
| 4 | 4.10 | 98.25 | | | | | | | 0.06 | 0.06 | | 0.21 | 0.21 |
| 5 | 8.30 | 98.21 | | | | | | | 0.06 | 0.06 | | 0.21 | 0.21 |
| 6 | 9.00 | 98.63 | | | | | | | | | | 0.17 | 0.17 |
| 7 | 10.60 | 98.18 | | | | | | | | 0.07 | 0.07 | 0.21 | 0.21 |
| 8 | 11.00 | 97.10 | | | | | | 0.15 | 0.16 | 0.20 | 0.20 | 0.30 | 0.30 |
| 9 | 11.50 | 96.90 | 0.07 | 0.06 | | 0.06 | | 0.18 | 0.18 | 0.21 | 0.22 | 0.31 | 0.32 |
| 10 | 12.00 | 96.80 | 0.07 | 0.06 | | 0.06 | | 0.14 | 0.14 | 0.17 | 0.17 | 0.25 | 0.25 |
| 11 | 12.60 | 97.51 | | | | | | 0.45 | 0.46 | 0.69 | 0.70 | 1.20 | 1.21 |
| 12 | 13.00 | 96.80 | 0.41 | 0.37 | | 0.38 | | 0.83 | 0.84 | 1.00 | 1.01 | 1.44 | 1.46 |
| 13 | 13.70 | 97.10 | | | | | | 0.34 | 0.34 | 0.43 | 0.43 | 0.66 | 0.66 |
| 14 | 14.00 | 96.20 | 0.42 | 0.41 | | 0.41 | | 0.54 | 0.54 | 0.60 | 0.61 | 0.80 | 0.81 |
| 15 | 15.20 | 97.37 | | | | | | 0.40 | 0.41 | 0.56 | 0.57 | 0.93 | 0.94 |
| 16 | 15.50 | 96.40 | 0.54 | 0.52 | | 0.53 | | 0.75 | 0.76 | 0.86 | 0.87 | 1.17 | 1.18 |
| 17 | 16.00 | 96.20 | 0.18 | 0.18 | | 0.18 | | 0.23 | 0.23 | 0.26 | 0.26 | 0.34 | 0.35 |
| 18 | 17.00 | 96.00 | 2.89 | 2.83 | | 2.86 | | 3.46 | 3.51 | 3.84 | 3.89 | 4.97 | 5.04 |
| 19 | 17.50 | 95.70 | 3.55 | 3.50 | | 3.54 | | 3.97 | 4.02 | 4.34 | 4.39 | 5.47 | 5.54 |
| 20 | 18.00 | 96.20 | 4.37 | 4.26 | | 4.30 | | 5.58 | 5.65 | 6.28 | 6.36 | 8.29 | 8.40 |
| 21 | 18.50 | 96.30 | 4.28 | 4.15 | | 4.20 | | 5.69 | 5.76 | 6.45 | 6.54 | 8.62 | 8.74 |
| 22 | 19.00 | 96.30 | 2.08 | 2.02 | | 2.04 | | 2.76 | 2.80 | 3.14 | 3.18 | 4.19 | 4.25 |
| 23 | 19.50 | 96.35 | 2.54 | 2.46 | | 2.48 | | 3.45 | 3.50 | 3.94 | 3.99 | 5.29 | 5.36 |
| 24 | 20.00 | 95.90 | 3.18 | 3.13 | | 3.16 | | 3.71 | 3.76 | 4.09 | 4.15 | 5.25 | 5.32 |
| 25 | 20.50 | 96.20 | 3.41 | 3.32 | | 3.36 | | 4.35 | 4.41 | 4.90 | 4.96 | 6.47 | 6.56 |
| 26 | 21.00 | 96.35 | 4.52 | 4.37 | | 4.42 | | 6.15 | 6.22 | 7.00 | 7.10 | 9.42 | 9.54 |
| 27 | 21.50 | 96.35 | 5.10 | 4.94 | | 4.50 | | 6.93 | 6.33 | 7.90 | 7.22 | 10.62 | 9.71 |
| 28 | 22.00 | 96.35 | 5.45 | 5.27 | | 4.75 | | 7.41 | 6.69 | 8.45 | 7.63 | 11.35 | 10.26 |
| 29 | 22.50 | 95.60 | 2.75 | 2.72 | | 2.75 | | 3.02 | 3.06 | 3.28 | 3.33 | 4.11 | 4.17 |
| 30 | 23.00 | 95.75 | 3.55 | 3.50 | | 3.54 | | 4.01 | 4.06 | 4.39 | 4.45 | 5.56 | 5.63 |
| 31 | 23.50 | 95.80 | 3.24 | 3.19 | | 3.22 | | 3.70 | 3.75 | 4.06 | 4.11 | 5.16 | 5.23 |
| 32 | 24.00 | 95.40 | 2.35 | 2.33 | | 2.35 | | 2.51 | 2.54 | 2.70 | 2.74 | 3.33 | 3.38 |
| 33 | 24.50 | 95.60 | 0.40 | 0.40 | | 0.40 | | 0.44 | 0.45 | 0.48 | 0.48 | 0.60 | 0.61 |
| 34 | 25.00 | 95.70 | 0.68 | 0.67 | | 0.68 | | 0.76 | 0.77 | 0.83 | 0.84 | 1.05 | 1.06 |
| 35 | 25.50 | 96.30 | 0.96 | 0.93 | | 0.94 | | 1.28 | 1.29 | 1.45 | 1.47 | 1.93 | 1.96 |
| 36 | 26.00 | 95.60 | 0.92 | 0.91 | | 0.92 | | 1.01 | 1.02 | 1.10 | 1.11 | 1.38 | 1.39 |
| 37 | 26.50 | 95.40 | 1.70 | 1.68 | | 1.70 | | 1.81 | 1.84 | 1.95 | 1.98 | 2.41 | 2.44 |
| 38 | 27.00 | 95.45 | 3.20 | 3.17 | | 3.20 | | 3.44 | 3.48 | 3.71 | 3.76 | 4.60 | 4.66 |
| 39 | 27.50 | 96.45 | 3.87 | 3.72 | | 3.76 | | 5.55 | 5.62 | 6.39 | 6.47 | 8.70 | 8.82 |
| 40 | 28.00 | 96.10 | 2.88 | 2.82 | | 2.85 | | 3.55 | 3.60 | 3.97 | 4.02 | 5.19 | 5.26 |
| 41 | 28.50 | 95.60 | 3.54 | 3.50 | | 3.53 | | 3.89 | 3.94 | 4.23 | 4.28 | 5.29 | 5.36 |
| 42 | 29.00 | 96.35 | 3.01 | 2.91 | | 2.94 | | 4.09 | 4.14 | 4.66 | 4.73 | 6.27 | 6.35 |
| 43 | 29.50 | 96.55 | 1.15 | 1.10 | | 1.11 | | 1.76 | 1.79 | 2.05 | 2.08 | 2.83 | 2.87 |
| 44 | 30.00 | 97.34 | | | | | | 1.03 | 1.05 | 1.43 | 1.45 | 2.35 | 2.38 |
| 45 | 30.50 | 97.09 | | | | | | 1.29 | 1.30 | 1.64 | 1.66 | 2.50 | 2.54 |
| 46 | 30.60 | 97.00 | 0.50 | 0.34 | | 0.34 | | 1.87 | 1.89 | 2.33 | 2.36 | 3.49 | 3.54 |
| 47 | 31.00 | 95.95 | 0.85 | 0.83 | | 0.84 | | 1.00 | 1.02 | 1.11 | 1.13 | 1.43 | 1.45 |
| 48 | 31.50 | 95.90 | 1.17 | 1.15 | | 1.16 | | 1.37 | 1.38 | 1.51 | 1.53 | 1.93 | 1.96 |
| 49 | 32.00 | 95.90 | 0.84 | 0.83 | | 0.83 | | 0.98 | 0.99 | 1.08 | 1.10 | 1.39 | 1.41 |
| 50 | 32.50 | 95.95 | 1.13 | 1.11 | | 1.12 | | 1.34 | 1.35 | 1.48 | 1.50 | 1.90 | 1.93 |
| 51 | 33.00 | 96.20 | 0.85 | 0.83 | | 0.84 | | 1.08 | 1.10 | 1.22 | 1.24 | 1.61 | 1.63 |
| 52 | 33.70 | 97.10 | | | | | | 0.68 | 0.69 | 0.87 | 0.88 | 1.33 | 1.35 |
| 53 | 33.71 | 101.41 | | | | | | | | | | | |

Total 0 * 0 *

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 4. Summary of Calibration Details, Lake Creek Study Site 1, High Flow Deck

| Trans No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| DISCHARGE | | | | | | | | | |
| Meas. | 25 | 25 | 27 | 25 | 23 | 25 | 23 | 21 | 26 |
| | 37 | 41 | 46 | 39 | 44 | 42 | 38 | 35 | 44 |
| | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 |
| Calc. | 26 | 26 | 27 | 27 | 26 | 26 | 25 | 20 | 20 |
| | 39 | 41 | 45 | 45 | 44 | 44 | 37 | 35 | 43 |
| | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 |
| Given | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
| | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 | 144 |
| Stage (given) | | | | | | | | | |
| | 97.46 | 99.79 | 96.73 | 98.12 | 93.97 | 94.12 | 94.52 | 94.75 | 96.69 |
| | 97.70 | 99.99 | 96.93 | 98.46 | 94.26 | 94.41 | 94.72 | 95.02 | 97.10 |
| | 98.51 | 100.59 | 97.47 | 99.29 | 94.86 | 96.40 | 95.49 | 95.83 | 98.43 |
| Plotting Stage (given) | | | | | | | | | |
| | 1.95 | 1.60 | 1.30 | 2.46 | 2.01 | 1.91 | 1.60 | 2.48 | 1.29 |
| | 2.19 | 1.80 | 1.50 | 2.80 | 2.30 | 2.20 | 1.80 | 2.75 | 1.70 |
| | 3.00 | 2.40 | 2.04 | 3.63 | 2.90 | 4.19 | 2.57 | 3.56 | 3.03 |
| Ratio of Modeled vs Predicted Discharge (given) | | | | | | | | | |
| Based on Stage-Discharge Relationship | | | | | | | | | |
| | 0.996 | 1.014 | 1.033 | 1.044 | 1.069 | 0.924 | 0.980 | 1.009 | 1.037 |
| | 1.005 | 0.981 | 0.953 | 0.937 | 0.900 | 1.101 | 1.028 | 0.988 | 0.947 |
| | 0.999 | 1.006 | 1.015 | 1.022 | 1.040 | 0.983 | 0.993 | 1.004 | 1.018 |
| Mean Error of Stage/Discharge Relationship (given) | | | | | | | | | |
| | 0.3507 | 1.2874 | 3.2043 | 4.3656 | 7.1116 | 6.3521 | 1.8248 | 0.8378 | 3.6323 |
| Stage/Discharge Relationship (S vs Q) $S=A*Q^{**}B+SZF$ (given) | | | | | | | | | |
| A= | 0.8692 | 0.7573 | 0.5691 | 1.2104 | 1.0378 | 0.4011 | 0.6509 | 1.2606 | 0.2705 |
| B= | 0.2492 | 0.2319 | 0.2577 | 0.2220 | 0.2084 | 0.4705 | 0.2760 | 0.2082 | 0.4879 |
| SZF= | 95.51 | 98.19 | 95.43 | 95.66 | 91.96 | 92.21 | 92.92 | 92.27 | 95.40 |
| B Coefficient log/log Relationship (given) | | | | | | | | | |
| | 4.013 | 4.312 | 3.881 | 4.505 | 4.799 | 2.126 | 3.624 | 4.804 | 2.050 |

DRAFT

LAKE CREEK INSTREAM FLOW REPORT

CALIBRATION REPORT

STUDY SITE 2, TRANSECTS 1-8

3 VELOCITY SET CALIBRATION

Prepared for:

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Washington Department of Fish and Wildlife Service

Prepared by:

EES Consulting, Inc.
Jean Caldwell and Associates

MAY 3, 2007

Table 1a. Velocity Adjustment Factors, Lake Creek Study Site 2.
Three Flow Deck

| Flow | Trans 1 | | Trans 2 | | Trans 3 | |
|------|---------|--------|---------|--------|---------|--------|
| | Orig | Rev | Orig | Rev | Orig | Rev |
| 4 | 0.6058 | 0.6107 | 0.8126 | 0.8221 | 0.5391 | 0.8032 |
| 5 | 0.6613 | 0.6646 | 0.8550 | 0.8652 | 0.5598 | 0.8530 |
| 6 | 0.7105 | 0.7114 | 0.8907 | 0.9006 | 0.5779 | 0.8921 |
| 7 | 0.7544 | 0.7525 | 0.9208 | 0.9299 | 0.5945 | 0.9235 |
| 8 | 0.7939 | 0.7891 | 0.9464 | 0.9544 | 0.6079 | 0.9489 |
| 9 | 0.8297 | 0.8219 | 0.9682 | 0.9748 | 0.6206 | 0.9696 |
| 10 | 0.8621 | 0.8515 | 0.9621 | 0.9679 | 0.6332 | 0.9866 |
| 12 | 0.9182 | 0.9029 | 0.9875 | 0.9903 | 0.6575 | 1.0123 |
| 14 | 0.9644 | 0.9457 | 1.0058 | 1.0057 | 0.6804 | 1.0298 |
| 16 | 1.0015 | 0.9811 | 1.0191 | 1.0164 | 0.7017 | 1.0413 |
| 18 | 1.0289 | 1.0088 | 1.0284 | 1.0235 | 0.7215 | 1.0484 |
| 20 | 1.0186 | 1.0027 | 1.0345 | 1.0279 | 0.7400 | 1.0521 |
| 25 | 1.0041 | 1.0015 | 1.0346 | 1.0256 | 0.7791 | 1.0443 |
| 30 | 0.9770 | 0.9952 | 1.0236 | 1.0151 | 0.8136 | 1.0320 |
| 35 | 0.9323 | 0.9768 | 1.0072 | 1.0015 | 0.8420 | 1.0151 |
| 40 | 0.8808 | 0.9541 | 0.9861 | 0.9851 | 0.8653 | 0.9955 |
| 45 | 0.8304 | 0.9337 | 0.9634 | 0.9689 | 0.8839 | 0.9744 |
| 50 | 0.7817 | 0.9154 | 0.9397 | 0.9530 | 0.8984 | 0.9527 |
| 55 | 0.7350 | 0.8991 | 0.9139 | 0.9359 | 0.9094 | 0.9308 |
| 60 | 0.6904 | 0.8844 | 0.8874 | 0.9190 | 0.9172 | 0.9091 |
| 65 | 0.6480 | 0.8710 | 0.8603 | 0.9019 | 0.9221 | 0.8876 |
| 70 | 0.6078 | 0.8587 | 0.8336 | 0.8855 | 0.9246 | 0.8666 |
| 75 | 0.5699 | 0.8473 | 0.8075 | 0.8701 | 0.9248 | 0.8461 |
| 80 | 0.5342 | 0.8366 | 0.7821 | 0.8554 | 0.9230 | 0.8261 |
| 85 | 0.5007 | 0.8265 | 0.7574 | 0.8416 | 0.9194 | 0.8067 |
| 90 | 0.4694 | 0.8170 | 0.7334 | 0.8284 | 0.9142 | 0.7879 |
| 95 | 0.4401 | 0.8078 | 0.7101 | 0.8159 | 0.9076 | 0.7697 |
| 100 | 0.4129 | 0.7991 | 0.6876 | 0.8040 | 0.8997 | 0.7520 |

Table 1b. Velocity Adjustment Factors, Lake Creek Study Site 2.
Three Flow Deck

| Flow | Trans 4 | | Trans 5 | | Trans 6 | |
|------|---------|--------|---------|--------|---------|--------|
| | Orig | Rev | Orig | Rev | Orig | Rev |
| 4 | 0.5043 | 0.6987 | 0.6393 | 0.8836 | 0.8883 | 0.9567 |
| 5 | 0.6083 | 0.7712 | 0.7244 | 0.9224 | 0.9029 | 0.9747 |
| 6 | 0.6960 | 0.8293 | 0.7903 | 0.9504 | 0.9173 | 0.9893 |
| 7 | 0.7703 | 0.8773 | 0.8420 | 0.9712 | 0.9306 | 1.0012 |
| 8 | 0.8331 | 0.9170 | 0.8828 | 0.9870 | 0.9425 | 1.0109 |
| 9 | 0.8859 | 0.9497 | 0.9154 | 0.9991 | 0.9531 | 1.0179 |
| 10 | 0.9301 | 0.9767 | 0.9415 | 1.0085 | 0.9624 | 1.0242 |
| 12 | 0.9970 | 1.0167 | 0.9789 | 1.0206 | 0.9776 | 1.0259 |
| 14 | 1.0405 | 1.0426 | 1.0034 | 1.0279 | 0.9892 | 1.0179 |
| 16 | 1.0661 | 1.0580 | 1.0192 | 1.0318 | 0.9979 | 1.0187 |
| 18 | 1.0779 | 1.0656 | 1.0289 | 1.0335 | 1.0036 | 1.0181 |
| 20 | 1.0789 | 1.0674 | 1.0342 | 1.0335 | 1.0073 | 1.0168 |
| 25 | 1.0496 | 1.0543 | 1.0354 | 1.0295 | 1.0103 | 1.0117 |
| 30 | 0.9940 | 1.0264 | 1.0264 | 1.0222 | 0.9867 | 1.0047 |
| 35 | 0.9278 | 0.9913 | 1.0122 | 1.0133 | 0.9791 | 0.9965 |
| 40 | 0.8588 | 0.9532 | 0.9948 | 1.0038 | 0.9685 | 0.9876 |
| 45 | 0.7916 | 0.9145 | 0.9756 | 0.9938 | 0.9551 | 0.9780 |
| 50 | 0.7286 | 0.8765 | 0.9556 | 0.9839 | 0.9403 | 0.9684 |
| 55 | 0.6706 | 0.8397 | 0.9351 | 0.9743 | 0.9244 | 0.9588 |
| 60 | 0.6176 | 0.8045 | 0.9145 | 0.9649 | 0.9078 | 0.9491 |
| 65 | 0.5696 | 0.7711 | 0.8940 | 0.9559 | 0.8906 | 0.9396 |
| 70 | 0.5262 | 0.7395 | 0.8736 | 0.9472 | 0.8731 | 0.9302 |
| 75 | 0.4871 | 0.7097 | 0.8534 | 0.9389 | 0.8549 | 0.9197 |
| 80 | 0.4517 | 0.6815 | 0.8336 | 0.9308 | 0.8368 | 0.9097 |
| 85 | 0.4199 | 0.6550 | 0.8141 | 0.9231 | 0.8189 | 0.9001 |
| 90 | 0.3910 | 0.6300 | 0.7949 | 0.9156 | 0.8013 | 0.8910 |
| 95 | 0.3649 | 0.6064 | 0.7761 | 0.9085 | 0.7841 | 0.8821 |
| 100 | 0.3412 | 0.5841 | 0.7577 | 0.9016 | 0.7671 | 0.8736 |

Table 1c. Velocity Adjustment Factors, Lake Creek Study Site 2. Three Flow Deck

| Flow | Trans 7 | | Trans 8 | |
|------|---------|--------|---------|--------|
| | Orig | Rev | Orig | Rev |
| 4 | 0.0002 | 0.8025 | 0.5649 | 0.6860 |
| 5 | 0.0009 | 0.8699 | 0.6737 | 0.7767 |
| 6 | 0.0033 | 0.9211 | 0.7634 | 0.8420 |
| 7 | 0.0104 | 0.9606 | 0.8380 | 0.8927 |
| 8 | 0.0276 | 0.9913 | 0.8991 | 0.9321 |
| 9 | 0.0645 | 1.0144 | 0.9487 | 0.9629 |
| 10 | 0.1334 | 1.0328 | 0.9886 | 0.9870 |
| 12 | 0.3883 | 1.0574 | 1.0451 | 1.0208 |
| 14 | 0.6903 | 1.0703 | 1.0785 | 1.0412 |
| 16 | 0.8858 | 1.0750 | 1.0957 | 1.0530 |
| 18 | 0.9779 | 1.0741 | 1.1016 | 1.0589 |
| 20 | 1.0164 | 1.0691 | 1.0996 | 1.0608 |
| 25 | 1.0305 | 1.0455 | 1.0744 | 1.0549 |
| 30 | 1.0067 | 1.0133 | 1.0349 | 1.0411 |
| 35 | 0.9684 | 0.9777 | 0.9906 | 1.0239 |
| 40 | 0.9224 | 0.9412 | 0.9456 | 1.0051 |
| 45 | 0.8720 | 0.9053 | 0.9026 | 0.9861 |
| 50 | 0.8198 | 0.8707 | 0.8622 | 0.9674 |
| 55 | 0.7676 | 0.8377 | 0.8244 | 0.9491 |
| 60 | 0.7166 | 0.8065 | 0.7894 | 0.9315 |
| 65 | 0.6677 | 0.7770 | 0.7569 | 0.9146 |
| 70 | 0.6213 | 0.7492 | 0.7267 | 0.8983 |
| 75 | 0.5779 | 0.7230 | 0.6987 | 0.8826 |
| 80 | 0.5374 | 0.6983 | 0.6719 | 0.8668 |
| 85 | 0.4998 | 0.6750 | 0.6470 | 0.8518 |
| 90 | 0.4651 | 0.6531 | 0.6240 | 0.8375 |
| 95 | 0.4331 | 0.6325 | 0.6025 | 0.8238 |
| 100 | 0.4037 | 0.6130 | 0.5825 | 0.8107 |

| Table 2. Changes to original data decks, Lake Creek Study Site 2, 3 Flow Model. | | | | | | | | | |
|---|---------|----------|-------|-------------|------|-----------|------|-------|--|
| Trans | Station | Low Flow | | Middle Flow | | High Flow | | Other | |
| | | Orig | Rev | Orig | Rev | Orig | Rev | | |
| 1 | 3.5 | | | -0.02 | 0.02 | | | | |
| | 5.5 | | | -0.04 | 0.04 | | | | |
| | 9.5 | 0.01 | 0.20 | 1.17 | 0.63 | | | | |
| | 11.5 | | | -0.14 | 0.14 | | | | |
| | 17.5 | 1.68 | 1.00 | | | | | | |
| | 18.0 | | | 2.94 | 1.97 | | | | |
| | 19.0 | | | | | 3.00 | 2.60 | | |
| | 19.5 | | | | | 3.00 | 2.60 | | |
| | 20.0 | | | | | 3.02 | 2.60 | | |
| | 20.5 | | | | | 2.84 | 2.60 | | |
| | 21.0 | | | | | 2.94 | 2.60 | | |
| | 22.5 | 1.76 | 1.30 | 2.19 | 1.40 | | | | |
| | 25.0 | 0.07 | 0.15 | | | 1.65 | 1.32 | | |
| | 2 | 21.0 | -0.09 | 0.09 | | | | | |
| | | 21.5 | -0.06 | 0.06 | | | | | |
| 24.5 | | No Value | 0.27 | | | 1.82 | 1.45 | | |
| 25.5 | | -0.07 | 0.07 | -0.02 | 0.02 | | | | |
| 3 | 5.5 | | | -0.17 | 0.00 | 0.00 | 0.14 | | |
| | 6.0 | | | | | -0.15 | 0.15 | | |
| | 6.5 | | | -0.80 | 0.80 | 0.00 | 0.00 | | |
| | 7.0 | | | 0.22 | 0.11 | -0.11 | 0.22 | | |
| | 7.5 | | | 0.21 | 0.09 | -0.09 | 0.21 | | |
| | 8.0 | | | 0.60 | 0.00 | -0.02 | 0.60 | | |
| | 8.7 | | | 1.18 | 0.18 | 0.18 | 1.18 | | |
| | 9.0 | | | 0.77 | 0.08 | 0.08 | 0.77 | | |
| | 9.5 | | | 1.10 | 0.77 | 0.77 | 1.10 | | |
| | 12.0 | No Value | 0.56 | | | | | | |
| | 12.5 | -0.05 | 0.25 | | | 2.76 | 2.40 | | |
| | 13.0 | -0.08 | 0.08 | 1.43 | 1.14 | | | | |
| | 13.5 | -0.06 | 0.06 | 0.59 | 1.06 | | | | |
| | 14.0 | -0.10 | 0.10 | | | | | | |
| | 14.5 | -0.25 | 0.25 | | | | | | |
| 17.0 | 1.20 | 0.30 | 0.30 | 1.16 | 1.16 | 1.20 | | | |
| 19.0 | -0.05 | 0.05 | 0.12 | 0.14 | 0.14 | 0.12 | | | |
| 20.0 | -0.11 | 0.11 | 0.46 | 0.39 | 0.39 | 0.46 | | | |

Table 2. Changes to original data decks, Lake Creek Study Site 2, 3 Flow Model.

| Trans | Station | Low Flow | | Middle Flow | | High Flow | | Other | |
|-------|---------|----------|------|-------------|------|-----------|------|---------------------|---------------------|
| | | Orig | Rev | Orig | Rev | Orig | Rev | | |
| 4 | 21.0 | -0.14 | 0.14 | 0.64 | 0.59 | 0.59 | 0.64 | | |
| | 22.0 | -0.11 | 0.11 | | | | | | |
| | 24.0 | 0.42 | 0.24 | 0.24 | 0.32 | 0.32 | 0.42 | | |
| | 26.0 | 0.94 | 0.55 | | | 0.55 | 0.94 | | |
| | 27.0 | 0.88 | 0.42 | | | 0.42 | 0.88 | | |
| | 28.0 | 0.48 | 0.11 | 0.11 | 0.39 | 0.39 | 0.48 | | |
| | 29.0 | -0.11 | 0.10 | 0.10 | 0.11 | | | | |
| | 5.0 | | | | | | | Elev 95.26 to 97.14 | |
| | 5.5 | | | | | | | Elev 95.26 to 97.13 | |
| | 6.0 | | | | | | | Elev 95.76 to 97.12 | |
| | 9.0 | | | | 0.13 | 0.22 | 0.64 | 0.55 | |
| | 11.0 | | 0.03 | 0.20 | | | 1.52 | 1.02 | |
| | 12.5 | | 0.31 | 0.25 | | | 2.60 | 2.40 | |
| | 13.0 | | | | 1.45 | 0.97 | | | |
| | 14.0 | | | | 1.43 | 0.86 | | | |
| | 16.0 | | 0.49 | 0.26 | 1.25 | 0.39 | 0.22 | 0.46 | |
| | 18.5 | | 1.03 | 0.17 | | | 0.17 | 1.03 | |
| | 19.5 | | 1.55 | 1.22 | | | 1.22 | 1.55 | |
| | 20.0 | | 1.12 | 0.44 | | | 0.44 | 1.12 | |
| | 20.5 | | 1.17 | 0.61 | | | 0.61 | 1.17 | |
| | 21.0 | | 0.65 | 0.55 | 0.42 | 0.77 | | | |
| | 22.0 | | 0.31 | 0.14 | 0.14 | 0.17 | 0.17 | 0.31 | |
| | 25.0 | | | | 1.80 | 2.88 | | | |
| | 26.0 | | | | 1.11 | 0.62 | | | |
| | 27.0 | | 0.06 | 0.20 | 1.46 | 0.62 | | | |
| | 27.5 | | 1.18 | 1.00 | 0.71 | 1.05 | 1.15 | 1.18 | |
| | 30.0 | | | | 0.19 | 0.46 | | | |
| | 34.0 | | | | | | | | Elev 96.66 to 96.70 |
| | 34.8 | | | | | | | | Elev 96.76 to 97.02 |
| | 35.0 | | | | | | | | 96.96 to 97.05 |
| | 5 | 14.0 | 1.10 | 1.00 | 3.47 | 3.20 | 5.34 | 4.00 | |
| | | 16.5 | | | 2.99 | 2.70 | 3.33 | 3.00 | |
| | | 18.0 | 0.70 | 0.31 | 0.31 | 0.56 | 0.56 | 0.70 | |
| | | 18.5 | 0.61 | 0.28 | | | 0.28 | 0.61 | |
| | | 19.0 | 0.26 | 0.15 | | | 0.15 | 0.26 | |

Table 2. Changes to original data decks, Lake Creek Study Site 2, 3 Flow Model.

| Trans | Station | Low Flow | | Middle Flow | | High Flow | | Other |
|-------|---------|----------|------|-------------|------|-----------|----------------------|---------------------|
| | | Orig | Rev | Orig | Rev | Orig | Rev | |
| 6 | 20.5 | 0.45 | 0.11 | | | 0.11 | 0.45 | |
| | 22.0 | 0.06 | 0.10 | | | | | |
| | 23.0 | 0.01 | 0.10 | | | | | |
| | 24.0 | 0.01 | 0.10 | 0.20 | 0.14 | | | |
| | 25.0 | 0.01 | 0.10 | 0.21 | 0.13 | 0.06 | 0.15 | |
| | 26.0 | 0.01 | 0.10 | | | 0.01 | 0.15 | |
| | 1.5 | | | | | | | Elev 95.94 to 97.94 |
| | 10.5 | | | 5.43 | 4.36 | 6.01 | 5.50 | |
| | 13.0 | | | | | | | Elev 96.32 to 96.53 |
| | 13.5 | | | | | | | Elev 96.27 to 96.55 |
| | 14.0 | 0.55 | 0.90 | 2.45 | 2.20 | 5.24 | 4.00 | |
| | 14.4 | | | | | | | Elev 96.72 to 96.03 |
| | 15.5 | 1.12 | 1.40 | 3.55 | 2.70 | 4.64 | 4.00 | |
| | 15.7 | | | 1.96 | 2.55 | 4.85 | 3.80 | Elev 96.17 to 96.48 |
| 17.3 | | | 1.85 | 2.10 | 3.60 | 3.10 | Elev 96.22 to 96.255 | |
| 7 | 9.0 | | | | | -0.13 | 0.13 | |
| | 10.0 | | | | | -0.08 | 0.08 | |
| | 11.0 | 0.0 | 0.05 | 0.18 | 0.10 | 0.02 | 0.18 | |
| | 12.0 | -0.36 | 0.05 | 0.08 | 0.10 | 0.04 | 0.36 | |
| | 13.0 | -0.12 | 0.10 | 0.21 | 0.15 | 0.10 | 0.20 | |
| | 14.8 | -0.18 | 0.05 | 0.08 | 0.10 | 0.09 | 0.15 | |
| | 27.0 | -0.23 | 0.23 | | | | | |
| | 28.0 | -0.20 | 0.20 | | | | | |
| | 29.0 | -0.40 | 0.30 | 0.14 | 0.38 | 0.30 | 0.40 | |
| | 30.0 | -0.44 | 0.15 | 0.09 | 0.38 | 0.14 | 0.44 | |
| | 13.7 | 0.00 | 0.05 | 0.24 | 0.10 | 0.00 | 0.15 | |
| | 16.8 | 0.18 | 0.10 | 0.30 | 0.15 | 0.04 | 0.20 | |
| | 18.0 | | | 0.83 | 0.48 | | | |
| | 20.0 | 1.00 | 0.46 | | | 0.46 | 1.00 | |
| | 20.5 | 0.45 | 0.31 | | | 0.31 | 0.45 | |
| 11.0 | 0.00 | 0.05 | 0.18 | 0.15 | 0.02 | 0.15 | | |
| 26.0 | 0.05 | 0.15 | | | | | | |
| 26.5 | 0.02 | 0.15 | | | | | | |
| 8 | 2.4 | | | | | | | Elev 93.26 to 95.26 |

Table 2. Changes to original data decks, Lake Creek Study Site 2, 3 Flow Model.

| Trans | Station | Low Flow | | Middle Flow | | High Flow | | Other |
|-------|---------|----------|------|-------------|------|-----------|------|---------------------|
| | | Orig | Rev | Orig | Rev | Orig | Rev | |
| | 3.0 | | | | | | | Elev 93.51 to 95.51 |
| | 4.0 | | | | | | | Elev 92.92 94.92 |
| | 12.3 | 1.19 | 1.05 | 0.66 | 1.10 | | | |
| | 15.0 | 0.50 | 0.70 | 2.07 | 2.36 | 4.67 | 4.40 | |
| | 17.0 | 0.81 | 0.38 | 1.23 | 0.81 | 0.38 | 1.23 | |
| | 17.5 | 0.83 | 0.33 | 0.90 | 0.68 | 0.33 | 0.90 | |
| | 18.0 | 1.25 | 0.43 | | | 0.43 | 1.25 | |
| | 18.5 | 1.17 | 0.25 | | | 0.25 | 1.17 | |
| | 19.0 | 1.41 | 0.37 | | | 0.37 | 1.41 | |
| | 19.5 | 0.74 | 0.29 | 0.29 | 0.34 | 0.34 | 0.74 | |
| | 24.0 | | | | | | | |
| | 25.0 | | | -0.02 | 0.02 | | | |
| | 26.0 | | | -0.02 | 0.02 | | | |
| | 27.0 | | | -0.02 | 0.02 | | | |

Table 3.1 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | | | | | |
|---|----|-------|--------|-------|------|-------------|-------|----------|--------------|------|----------|-------------|------|----------|-------|------|--|
| Transect 1 | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 97.68 | | | 97.95 | | | 98.21 | | | 98.40 | | | 98.76 | | |
| Disch (cfs) | | | 4.00 | | | 10.00 | | | 22.00 | | | 37.00 | | | 92.50 | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Orig | Rev | |
| | 1 | 0.00 | 100.96 | | | | | | | | | | | | | | |
| | 2 | 0.10 | 98.40 | | | | | | | | | | | | 0.01 | 0.02 | |
| | 3 | 1.50 | 97.70 | | | 0.00 | 0.01 | 0.02 | 0.00 | 0.02 | 0.03 | 0.02 | 0.02 | 0.04 | 0.01 | 0.04 | |
| | 4 | 2.50 | 97.30 | 0.01 | 0.02 | 0.00 | 0.03 | 0.03 | 0.00 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.03 | 0.05 | |
| * | 5 | 3.50 | 97.25 | -0.03 | 0.00 | 0.01 | -0.01 | * 0.01 * | -0.02 | 0.02 | * 0.03 * | 0.06 | 0.04 | 0.05 | 0.03 | 0.13 | |
| | 6 | 4.50 | 97.25 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.05 | * 0.05 * | 0.15 | 0.12 | 0.12 | 0.37 | 0.49 | |
| * | 7 | 5.50 | 97.00 | -0.01 | 0.01 | 0.04 | 0.00 | * 0.03 * | -0.04 | 0.03 | * 0.05 * | 0.08 | 0.04 | 0.06 | 0.03 | 0.09 | |
| | 8 | 6.50 | 96.90 | 0.01 | 0.01 | 0.05 | 0.03 | * 0.03 * | 0.07 | 0.13 | * 0.13 * | 0.40 | 0.27 | 0.26 | 0.56 | 0.85 | |
| | 9 | 7.50 | 96.75 | 0.35 | 0.38 | 0.00 | 0.54 | * 0.55 * | 0.68 | 0.70 | * 0.68 * | 0.73 | 0.66 | 0.69 | 0.36 | 0.63 | |
| | 10 | 8.50 | 96.60 | 0.22 | 0.25 | 0.00 | 0.53 | * 0.56 * | 0.94 | 1.01 | * 0.99 * | 1.41 | 1.24 | 1.25 | 1.08 | 1.73 | |
| * | 11 | 9.50 | 97.10 | 0.00 | 0.03 | 0.01 | 0.06 | * 0.18 * | 1.17 | 0.75 | * 0.68 * | 1.73 | 3.26 | * 1.43 * | 26.10 | 4.82 | |
| | 12 | 10.50 | 96.95 | 0.01 | 0.01 | 0.07 | 0.07 | * 0.08 * | 0.40 | 0.31 | * 0.30 * | 0.67 | 0.68 | 0.65 | 1.61 | 2.32 | |
| * | 13 | 11.50 | 96.80 | 0.15 | 0.19 | 0.39 | 0.19 | * 0.24 * | -0.14 | 0.20 | * 0.26 * | 0.35 | 0.17 | 0.25 | 0.07 | 0.20 | |
| | 14 | 12.50 | 96.70 | 0.34 | 0.38 | 0.66 | 0.59 | * 0.60 * | 0.87 | 0.82 | * 0.80 * | 0.87 | 0.82 | 0.85 | 0.49 | 0.84 | |
| | 15 | 13.50 | 96.60 | 0.38 | 0.42 | 0.88 | 0.76 | * 0.77 * | 1.15 | 1.18 | * 1.15 * | 1.42 | 1.28 | 1.31 | 0.89 | 1.49 | |
| | 16 | 14.50 | 96.95 | 0.66 | 0.72 | 1.32 | 1.15 | * 1.16 * | 1.59 | 1.60 | * 1.56 * | 1.76 | 1.61 | 1.66 | 0.98 | 1.67 | |
| | 17 | 15.50 | 96.30 | 0.44 | 0.49 | 1.13 | 0.90 | * 0.92 * | 1.22 | 1.44 | * 1.41 * | 1.89 | 1.59 | 1.63 | 1.13 | 1.91 | |
| | 18 | 16.50 | 97.20 | 0.57 | 0.61 | 1.26 | 0.87 | * 0.88 * | 0.70 | 1.09 | * 1.07 * | 1.39 | 1.02 | * 1.07 * | 0.55 | 0.97 | |
| * | 19 | 17.50 | 97.40 | 1.00 | 0.50 | 1.68 | 1.36 | * 0.89 * | 1.35 | 1.54 | * 1.31 * | 1.58 | 1.36 | 1.48 | 0.65 | 1.86 | |
| * | 20 | 18.00 | 97.55 | 0.23 | 0.24 | 0.84 | 0.85 | * 0.77 * | 2.94 | 2.23 | * 1.89 * | 3.30 | 3.43 | 2.98 | 4.39 | 6.02 | |
| * | 21 | 18.50 | 97.60 | 0.14 | 0.17 | 0.32 | 0.41 | * 0.43 * | 1.92 | 0.89 | * 0.87 * | 0.91 | 1.21 | * 1.20 * | 1.23 | 1.91 | |
| * | 22 | 19.00 | 98.35 | | | | | | | | | 3.00 | 2.70 | 1.90 | 5.59 | 6.64 | |
| * | 23 | 19.50 | 98.35 | | | | | | | | | 3.00 | 2.70 | 2.46 | 5.59 | 8.62 | |
| * | 24 | 20.00 | 98.35 | | | | | | | | | 3.02 | 2.72 | 2.46 | 5.62 | 8.62 | |
| * | 25 | 20.50 | 98.30 | | | | | | | | | 2.84 | 2.57 | 2.47 | 3.59 | 5.84 | |
| * | 26 | 21.00 | 98.30 | | | | | | | | | 2.94 | 2.66 | 2.47 | 3.72 | 5.84 | |
| * | 27 | 21.50 | 98.15 | | | | | | 0.00 | 1.40 | * 1.00 * | 3.53 | 3.21 | 2.47 | 2.92 | 3.80 | |
| | 28 | 22.00 | 97.60 | 0.83 | 0.92 | 2.01 | 1.77 | * 1.81 * | 3.00 | 2.95 | * 2.87 * | 3.63 | 3.34 | 3.41 | 2.51 | 4.17 | |
| * | 29 | 22.50 | 96.60 | 1.33 | 0.77 | 1.76 | 1.69 | * 1.13 * | 2.19 | 1.79 | * 1.40 * | 1.49 | 1.51 | 1.40 | 0.67 | 1.28 | |
| | 30 | 23.00 | 97.10 | 0.73 | 0.80 | 1.69 | 1.40 | * 1.42 * | 1.93 | 2.13 | * 2.08 * | 2.62 | 2.28 | 2.34 | 1.54 | 2.60 | |
| | 31 | 23.50 | 97.05 | 0.43 | 0.48 | 1.14 | 0.99 | * 1.01 * | 1.73 | 1.76 | * 1.71 * | 2.30 | 2.08 | 2.11 | 1.69 | 2.78 | |
| | 32 | 24.00 | 97.05 | 0.20 | 0.23 | 0.77 | 0.59 | * 0.61 * | 0.99 | 1.29 | * 1.25 * | 2.18 | 1.74 | * 1.76 * | 1.79 | 2.90 | |
| | 33 | 24.50 | 96.90 | 0.62 | 0.66 | 1.19 | 0.93 | * 0.94 * | 0.95 | 1.16 | * 1.14 * | 1.30 | 1.08 | 1.13 | 0.57 | 1.00 | |
| * | 34 | 25.00 | 97.10 | 0.01 | 0.03 | 0.07 | 0.08 | * 0.17 * | 0.99 | 0.61 | * 0.65 * | 1.65 | 1.88 | 1.37 | 8.26 | 4.61 | |
| | 35 | 25.50 | 97.40 | 0.04 | 0.05 | 0.16 | 0.13 | * 0.14 * | 0.29 | 0.31 | * 0.30 * | 0.51 | 0.45 | 0.45 | 0.49 | 0.79 | |
| | 36 | 26.00 | 98.10 | | | | | | 0.00 | 0.02 | 0.02 | 0.04 | 0.04 | 0.04 | 0.03 | 0.05 | |
| | 37 | 26.50 | 98.35 | | | | | | | | | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | |
| | 38 | 27.00 | 98.40 | | | | | | | | | | | | 0.53 | 0.94 | |
| | 39 | 27.50 | 98.15 | | | | | | 0.00 | 0.36 | * 0.35 * | 0.91 | 0.83 | 0.86 | 0.75 | 1.33 | |
| | 40 | 28.00 | 98.38 | | | | | | | | | 0.50 | 0.44 | 0.47 | 1.63 | 2.92 | |
| | 41 | 28.50 | 98.15 | | | | | | 0.00 | 1.11 | * 1.08 * | 2.81 | 2.55 | 2.67 | 2.32 | 4.11 | |
| | 42 | 29.00 | 98.10 | | | | | | 0.00 | 1.28 | * 1.25 * | 2.46 | 2.24 | 2.33 | 1.90 | 3.35 | |
| | 43 | 29.50 | 98.10 | | | | | | 0.00 | 0.43 | * 0.42 * | 0.83 | 0.75 | 0.79 | 0.64 | 1.13 | |
| | 44 | 30.00 | 98.10 | | | | | | 0.00 | 0.10 | 0.10 | 0.20 | 0.18 | 0.19 | 0.15 | 0.27 | |
| | 45 | 31.00 | 98.15 | | | | | | | 0.11 | 0.10 | 0.27 | 0.25 | 0.26 | 0.22 | 0.39 | |
| | 46 | 32.00 | 98.05 | | | | | | 0.00 | 1.70 | * 1.65 * | 2.81 | 2.56 | 2.67 | 2.05 | 3.62 | |
| | 47 | 33.00 | 98.15 | | | | | | 0.00 | 1.22 | * 1.18 * | 3.07 | 2.79 | 2.91 | 2.54 | 4.49 | |
| | 48 | 34.00 | 95.40 | 0.04 | 0.05 | | 0.23 | * 0.26 * | 0.80 | 0.94 | * 0.92 * | 2.29 | 1.91 | 1.84 | 4.00 | 5.62 | |
| | 49 | 34.85 | 98.30 | | | | | | | | | 0.78 | 0.71 | 0.74 | 0.99 | 1.75 | |
| | 50 | 35.50 | 98.35 | | | | | | | | | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | |
| | 51 | 36.00 | 98.35 | | | | | | | | | 0.05 | 0.04 | 0.05 | 0.09 | 0.17 | |
| | 52 | 36.20 | 98.40 | | | | | | | | | | | | 0.09 | 0.15 | |
| | 53 | 37.60 | 98.36 | | | | | | | | | | 0.04 | 0.04 | 0.09 | 0.16 | |
| | 54 | 40.90 | 98.50 | | | | | | | | | | | | 0.07 | 0.12 | |
| | 55 | 41.20 | 98.80 | | | | | | | | | | | | | | |
| | 56 | 44.20 | 100.57 | | | | | | | | | | | | | | |
| | 57 | 44.30 | 100.67 | | | | | | | | | | | | | | |
| Total | | | | | | ERR * ERR * | | | ERR * ERR * | | | 4 * 4 * | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.2 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | | | | | | | |
|---|-------|--------|--------|-------|-------------|--------------|-------|-------------|--------------|-------|-------------|-------------|-------------|-------------|-------|-------|------|------|------|
| Transect 2 | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 96.93 | | 97.26 | | | 97.60 | | | 97.86 | | | 98.39 | | | | | |
| Disch (cfs) | | | 4.00 | | 10.00 | | | 22.00 | | | 37.00 | | | 92.50 | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Orig | Rev | | | |
| 1 | 0.00 | 101.02 | | | | | | | | | | | | | | | | | |
| 2 | 0.10 | 97.82 | | | | | | | | | | | | | | | | | |
| 3 | 1.50 | 97.42 | | | | | | | 0.00 | 0.18 | 0.18 | 0.29 | 0.06 | 0.06 | 0.26 | 0.30 | | | |
| 4 | 3.00 | 98.05 | | | | | | | | | | | 0.31 | 0.31 | 1.30 | 1.48 | | | |
| 5 | 4.00 | 98.14 | | | | | | | | | | | | | 1.05 | 1.20 | | | |
| 6 | 5.00 | 97.62 | | | | | | | | | | 1.27 | 1.43 | 1.42 | 2.25 | 2.57 | | | |
| 7 | 6.00 | 96.72 | 0.68 | 0.70 | | | 1.12 | * | 1.13 | * | 1.56 | 1.60 | 1.59 | 1.83 | 1.85 | 1.84 | 1.85 | 2.09 | |
| 8 | 7.00 | 96.52 | 1.44 | 1.46 | 1.19 | 1.27 | 1.28 | 1.38 | 1.07 | * | 1.06 | * | 0.72 | 0.87 | 0.87 | 0.47 | 0.53 | | |
| 9 | 8.00 | 96.42 | 0.67 | 0.68 | 0.97 | 0.88 | 0.88 | 0.83 | 1.03 | 1.02 | 1.18 | 1.05 | 1.05 | 0.84 | 0.96 | | | | |
| 10 | 8.50 | 96.42 | 0.91 | 0.92 | 1.19 | 1.17 | 1.18 | 1.39 | 1.35 | 1.34 | 1.31 | 1.36 | 1.36 | 1.07 | 1.22 | | | | |
| 11 | 9.00 | 96.22 | 1.34 | 1.35 | 1.24 | 1.24 | 1.25 | 1.18 | 1.09 | 1.08 | 0.85 | 0.92 | 0.91 | 0.52 | 0.59 | | | | |
| 12 | 9.50 | 96.22 | 1.06 | 1.07 | 1.40 | 0.99 | * | 0.99 | 0.35 | 0.87 | * | 0.87 | 1.30 | 0.73 | * | 0.73 | * | 0.42 | 0.48 |
| 13 | 10.00 | 96.12 | 0.67 | 0.68 | 0.94 | 0.91 | 0.92 | 1.08 | 1.10 | 1.09 | 1.13 | 1.14 | 1.14 | 0.94 | 1.07 | | | | |
| 14 | 10.50 | 96.92 | 0.66 | 0.67 | 1.19 | 1.16 | 1.17 | 1.76 | 1.75 | 1.74 | 2.04 | 2.10 | 2.09 | 2.24 | 2.55 | | | | |
| 15 | 11.50 | 97.22 | | | 1.08 | 1.04 | 1.05 | 1.53 | 1.56 | 1.55 | 1.83 | 1.85 | 1.85 | 1.95 | 2.22 | | | | |
| 16 | 12.20 | 96.22 | 0.06 | 0.06 | 0.22 | 0.20 | 0.20 | 0.43 | 0.53 | 0.53 | 1.04 | 0.93 | 0.93 | 1.93 | 2.21 | | | | |
| 17 | 13.00 | 96.22 | 0.29 | 0.29 | 0.79 | 0.72 | 0.72 | 1.20 | 1.47 | * | 1.46 | * | 2.41 | 2.17 | 2.16 | 3.31 | 3.78 | | |
| 18 | 13.50 | 96.62 | 0.22 | 0.22 | 0.74 | 0.68 | 0.69 | 1.43 | 1.67 | 1.66 | 2.97 | 2.76 | 2.75 | 5.17 | 5.89 | | | | |
| 19 | 14.00 | 96.82 | 0.66 | 0.67 | 1.00 | 1.06 | 1.07 | 1.92 | 1.49 | * | 1.48 | * | 1.41 | 1.70 | * | 1.69 | 1.67 | 1.89 | |
| 20 | 15.50 | 95.82 | 0.64 | 0.64 | 0.55 | 0.51 | 0.51 | 0.34 | 0.39 | 0.39 | 0.32 | 0.30 | 0.30 | 0.15 | 0.17 | | | | |
| 21 | 16.00 | 96.22 | 0.37 | 0.38 | 0.67 | 0.62 | 0.63 | 0.80 | 0.91 | 0.90 | 1.12 | 1.06 | 1.05 | 1.08 | 1.23 | | | | |
| 22 | 16.50 | 96.52 | 0.96 | 0.97 | 1.21 | 1.14 | 1.14 | 1.10 | 1.22 | 1.21 | 1.23 | 1.17 | 1.17 | 0.85 | 0.96 | | | | |
| 23 | 17.00 | 96.47 | 0.47 | 0.48 | 0.85 | 0.83 | 0.84 | 1.29 | 1.27 | 1.26 | 1.48 | 1.53 | 1.53 | 1.66 | 1.88 | | | | |
| 24 | 17.50 | 96.47 | 1.13 | 1.14 | 1.28 | 1.20 | 1.21 | 1.07 | 1.19 | 1.18 | 1.13 | 1.08 | 1.08 | 0.70 | 0.80 | | | | |
| 25 | 17.60 | 95.52 | 0.44 | 0.44 | 0.46 | 0.41 | 0.41 | 0.27 | 0.36 | 0.35 | 0.35 | 0.30 | 0.30 | 0.17 | 0.19 | | | | |
| 26 | 18.00 | 95.47 | 0.68 | 0.68 | 0.81 | 0.73 | 0.73 | 0.57 | 0.72 | 0.72 | 0.75 | 0.66 | 0.66 | 0.43 | 0.49 | | | | |
| 27 | 18.50 | 95.37 | 0.17 | 0.17 | 0.34 | 0.37 | 0.38 | 0.98 | 0.68 | * | 0.68 | * | 0.72 | 0.93 | * | 0.93 | * | 1.24 | 1.41 |
| 28 | 19.00 | 95.37 | 0.42 | 0.42 | 0.59 | 0.61 | 0.62 | 0.95 | 0.79 | 0.79 | 0.75 | 0.86 | 0.86 | 0.77 | 0.88 | | | | |
| 29 | 19.50 | 95.77 | 0.31 | 0.31 | 0.53 | 0.46 | 0.47 | 0.45 | 0.61 | 0.61 | 0.80 | 0.67 | 0.67 | 0.61 | 0.70 | | | | |
| 30 | 20.00 | 95.82 | 0.03 | 0.03 | 0.14 | 0.14 | 0.15 | 0.57 | 0.48 | 0.48 | 0.85 | 0.98 | 0.97 | 2.62 | 2.98 | | | | |
| 31 | 20.60 | 95.82 | 0.10 | 0.10 | 0.24 | 0.24 | 0.25 | 0.55 | 0.48 | 0.48 | 0.61 | 0.68 | 0.68 | 0.99 | 1.12 | | | | |
| * | 32 | 21.00 | 95.82 | -0.29 | 0.03 | -0.09 | -0.06 | 0.09 | 0.26 | 0.20 | 0.22 | 0.31 | 0.36 | 0.35 | 0.47 | 0.73 | | | |
| * | 33 | 21.50 | 95.87 | -0.17 | 0.02 | -0.06 | -0.01 | 0.07 | 0.30 | 0.17 | 0.17 | 0.18 | 0.27 | 0.27 | 0.34 | 0.55 | | | |
| | 34 | 22.00 | 95.92 | 0.08 | 0.09 | 0.16 | 0.17 | 0.17 | 0.33 | 0.28 | 0.27 | 0.31 | 0.36 | 0.35 | 0.43 | 0.49 | | | |
| | 35 | 22.50 | 96.02 | 0.35 | 0.36 | 0.58 | 0.48 | 0.48 | 0.36 | 0.58 | * | 0.57 | * | 0.80 | 0.60 | 0.60 | 0.50 | 0.57 | |
| | 36 | 23.00 | 96.02 | 0.78 | 0.79 | 0.86 | 0.86 | 0.87 | 0.94 | 0.87 | 0.87 | 0.75 | 0.81 | 0.80 | 0.54 | 0.62 | | | |
| | 37 | 23.50 | 96.02 | 0.09 | 0.09 | 0.30 | 0.31 | 0.31 | 1.00 | 0.86 | 0.86 | 1.38 | 1.56 | 1.55 | 3.43 | 3.90 | | | |
| | 38 | 24.00 | 96.42 | 0.13 | 0.13 | 0.47 | 0.42 | 0.43 | 0.87 | 1.08 | * | 1.07 | 2.05 | 1.83 | 1.82 | 3.59 | 4.09 | | |
| * | 39 | 24.50 | 96.32 | 0.01 | 0.06 | 0.00 | 0.06 | 0.23 | 0.45 | 0.47 | 0.64 | 1.82 | 1.65 | 1.17 | * | 11.47 | 2.95 | | |
| * | 40 | 25.50 | 96.82 | -0.13 | 0.07 | -0.07 | -0.07 | 0.05 | -0.02 | -0.01 | 0.04 | 0.05 | 0.04 | 0.03 | 0.09 | 0.02 | | | |
| | 41 | 26.50 | 97.02 | | | | -0.05 | 0.05 | | -0.09 | 0.09 | | -0.11 | 0.11 | -0.11 | 0.12 | | | |
| | 42 | 27.30 | 97.32 | | | | | | | 0.56 | * | 0.56 | * | 0.80 | 0.84 | 0.84 | 0.96 | 1.09 | |
| | 43 | 29.45 | 97.82 | | | | | | | | | | 0.14 | 0.14 | 0.63 | 0.72 | | | |
| | 44 | 30.50 | 99.72 | | | | | | | | | | | | | | | | |
| | 45 | 33.39 | 100.48 | | | | | | | | | | | | | | | | |
| | 46 | 33.42 | 100.52 | | | | | | | | | | | | | | | | |
| Total | | | | | | | 2 * | 3 * | | 8 * | 7 * | | 3 * | 3 * | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.3 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | | | | | | | |
|---|----|-------|--------|-------|------|--------------|-------|--------|--------------|-------|--------|--------------|-------|--------|-------|------|--|------|--|
| Transect 3 | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | 97.01 | | 97.31 | | | 97.61 | | | 97.83 | | | 98.27 | | | | | | |
| Disch (cfs) | | 4.00 | | 10.00 | | | 22.00 | | | 37.00 | | | 92.50 | | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Orig | Rev | | | |
| | 1 | 0.00 | 99.35 | | | | | | | | | | | | | | | | |
| | 2 | 0.10 | 99.26 | | | | | | | | | | | | | | | | |
| | 3 | 2.60 | 97.80 | | | | | | | | | | 0.00 | 0.00 | 0.03 | 0.04 | | | |
| | 4 | 3.50 | 97.90 | | | | | | | | | | | | 0.03 | 0.03 | | | |
| | 5 | 4.40 | 97.00 | | | | | | | | | | | | 6.12 | 4.30 | | | |
| | 6 | 5.00 | 97.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.06 | 0.04 | 0.24 | 0.33 | 0.25 | -0.35 | 0.20 | | | |
| * | 7 | 5.50 | 97.45 | | | 0.00 | | | -0.17 | -0.11 | 0.10 | 0.00 | -0.22 | * 0.17 | -0.40 | 0.23 | | | |
| * | 8 | 6.00 | 97.60 | | | | | | | -0.02 | | -0.15 | -0.14 | 0.15 | -0.31 | 0.25 | | | |
| * | 9 | 6.50 | 96.90 | -0.12 | 0.19 | 0.00 | -0.34 | * 0.54 | -0.80 | -0.58 | * 0.84 | 0.00 | -0.79 | * 0.96 | -1.09 | 0.96 | | | |
| * | 10 | 7.00 | 97.20 | | | 0.00 | 0.50 | * 0.04 | 0.22 | 0.18 | 0.12 | -0.11 | -0.11 | 0.22 | -0.70 | 0.57 | | | |
| * | 11 | 7.50 | 97.25 | | | | 0.46 | * 0.03 | 0.21 | 0.17 | 0.10 | -0.09 | -0.09 | 0.21 | -0.63 | 0.72 | | | |
| * | 12 | 8.00 | 97.20 | | | 0.00 | 1.06 | * 0.18 | 0.60 | 0.48 | 0.48 | -0.02 | -0.04 | 0.61 | -1.15 | 0.67 | | | |
| * | 13 | 8.70 | 97.60 | | | 1.18 | | | 0.68 | 0.35 | * | 0.18 | 0.19 | 1.31 | 0.06 | 3.91 | | | |
| * | 14 | 9.00 | 97.60 | | | 0.77 | | | 0.70 | 0.23 | * | 0.08 | 0.12 | 1.09 | 0.03 | 4.50 | | | |
| * | 15 | 9.50 | 95.90 | 0.74 | 0.44 | 1.10 | 0.65 | * 0.68 | 0.65 | 0.60 | 0.88 | 0.77 | 0.58 | 0.96 | 0.46 | 0.92 | | | |
| * | 16 | 10.00 | 96.00 | 0.35 | 0.51 | 1.23 | 0.80 | * 1.24 | 2.44 | 1.69 | * 2.36 | 3.08 | 2.78 | 3.30 | 5.76 | 4.93 | | | |
| * | 17 | 10.50 | 96.20 | 0.98 | 1.44 | 2.22 | 1.41 | * 2.19 | 2.70 | 2.00 | * 2.80 | 2.94 | 2.53 | 3.01 | 3.31 | 2.83 | | | |
| * | 18 | 11.00 | 96.00 | 0.23 | 0.33 | 0.71 | 0.44 | * 0.68 | 1.00 | 0.80 | 1.12 | 1.46 | 1.20 | 1.43 | 2.10 | 1.82 | | | |
| * | 19 | 11.50 | 96.70 | 0.36 | 0.45 | 1.08 | 0.74 | * 1.11 | 2.33 | 1.41 | * 2.15 | 2.22 | 2.18 | 3.04 | 4.03 | 4.64 | | | |
| * | 20 | 12.00 | 96.80 | 0.02 | 0.12 | | 0.18 | 0.53 | 1.55 | 1.10 | * 1.69 | 4.10 | 3.65 | 3.31 | 26.13 | 8.92 | | | |
| * | 21 | 12.50 | 96.85 | 1.04 | 0.04 | -0.05 | 2.01 | * 0.24 | 1.01 | 3.21 | * 1.05 | 2.76 | 4.22 | * 2.51 | 5.65 | 9.69 | | | |
| * | 22 | 13.00 | 96.85 | 1.04 | 0.04 | -0.08 | 2.01 | * 0.21 | 1.43 | 3.21 | * 0.78 | 1.66 | 4.22 | * 1.69 | 5.65 | 5.48 | | | |
| * | 23 | 13.50 | 96.80 | 1.04 | 0.04 | -0.06 | 2.01 | * 0.25 | 0.59 | 3.21 | * 0.96 | 2.18 | 4.22 | * 2.15 | 5.65 | 7.35 | | | |
| * | 24 | 14.00 | 96.50 | -0.63 | 0.04 | -0.10 | -0.08 | 0.20 | 0.68 | 0.57 | 0.69 | 1.39 | 1.14 | 1.46 | 2.16 | 4.49 | | | |
| * | 25 | 14.50 | 96.40 | 1.04 | 0.03 | -0.25 | 2.01 | * 0.20 | 0.52 | 3.21 | * 0.83 | 2.38 | 4.22 | * 1.92 | 5.65 | 6.98 | | | |
| * | 26 | 16.00 | 95.40 | 0.17 | 0.25 | 0.52 | 0.38 | 0.60 | 1.58 | 0.80 | * 1.12 | 1.21 | 1.33 | 1.56 | 2.77 | 2.30 | | | |
| * | 27 | 17.00 | 95.20 | 0.57 | 0.09 | 1.20 | 0.55 | * 0.33 | 0.31 | 0.56 | * 0.86 | 1.17 | 0.56 | * 1.47 | 0.50 | 3.16 | | | |
| * | 28 | 18.00 | 95.70 | 0.08 | 0.11 | 0.53 | 0.29 | * 0.43 | 0.79 | 0.91 | 1.28 | 3.00 | 1.96 | * 2.39 | 6.52 | 5.99 | | | |
| * | 29 | 19.00 | 95.80 | -0.03 | 0.00 | -0.05 | 0.14 | 0.04 | 1.24 | 0.35 | * 0.27 | 0.14 | 0.54 | * 0.90 | 0.83 | 6.33 | | | |
| * | 30 | 20.00 | 95.80 | -0.23 | 0.03 | -0.11 | -0.03 | 0.12 | 0.46 | 0.21 | * 0.32 | 0.39 | 0.43 | 0.55 | 0.81 | 1.21 | | | |
| * | 31 | 21.00 | 95.90 | -0.33 | 0.04 | -0.14 | -0.04 | 0.16 | 0.65 | 0.32 | * 0.44 | 0.59 | 0.63 | 0.80 | 1.18 | 1.91 | | | |
| * | 32 | 22.00 | 96.00 | -0.49 | 0.02 | -0.11 | -0.04 | 0.12 | 0.77 | 0.49 | * 0.55 | 1.04 | 0.95 | 1.35 | 1.78 | 5.40 | | | |
| * | 33 | 23.00 | 96.00 | 0.15 | 0.21 | 0.52 | 0.31 | * 0.47 | 0.65 | 0.59 | 0.83 | 1.22 | 0.92 | * 1.11 | 1.72 | 1.52 | | | |
| * | 34 | 24.00 | 95.80 | 0.26 | 0.13 | 0.42 | 0.24 | 0.23 | 0.24 | 0.23 | 0.35 | 0.32 | 0.23 | 0.42 | 0.19 | 0.48 | | | |
| * | 35 | 25.00 | 95.80 | 0.10 | 0.15 | 0.39 | 0.26 | 0.40 | 0.93 | 0.60 | * 0.84 | 1.10 | 1.04 | 1.23 | 2.37 | 2.02 | | | |
| * | 36 | 26.00 | 95.85 | 0.76 | 0.30 | 0.95 | 0.63 | * 0.55 | 0.83 | 0.55 | * 0.82 | 0.55 | 0.51 | 0.98 | 0.38 | 1.12 | | | |
| * | 37 | 27.00 | 96.20 | 0.72 | 0.16 | 0.88 | 0.44 | * 0.30 | 0.21 | 0.30 | 0.47 | 0.42 | 0.24 | 0.57 | 0.13 | 0.68 | | | |
| * | 38 | 28.00 | 96.30 | 0.26 | 0.03 | 0.48 | 0.22 | * 0.12 | 0.11 | 0.20 | 0.32 | 0.39 | 0.19 | 0.57 | 0.15 | 1.29 | | | |
| * | 39 | 29.00 | 96.35 | -0.46 | 0.01 | -0.11 | -0.13 | 0.07 | 0.11 | 0.27 | 0.26 | 0.88 | 0.62 | * 0.56 | 1.25 | 1.84 | | | |
| | 40 | 29.90 | 97.80 | | | | | | | | | | -0.01 | 0.00 | -0.06 | 0.05 | | | |
| | 41 | 31.30 | 99.98 | | | | | | | | | | | | | | | | |
| | 42 | 31.40 | 100.06 | | | | | | | | | | | | | | | | |
| Total | | | | 21 * | | | 9 * | | | 19 * | | | 14 * | | | 11 * | | 13 * | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.4 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | | | | | | | | | | |
|---|-------|-------|-------|------|-------|------|---------|-------|------|---------|-------|------|---------|-------|------|--|------|--|--|-----|--|--|
| Transect 4 | | | | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 96.38 | | 96.69 | | | 97.01 | | | 97.25 | | | 97.73 | | | | | | | | |
| Disch (cfs) | | | 4.00 | | 10.00 | | | 22.00 | | | 37.00 | | | 92.50 | | | | | | | | |
| Rv | Pt | Sta | Orig | Rev | Meas | Orig | * Rev * | Meas | Orig | * Rev * | Meas | Orig | * Rev * | Orig | Rev | | | | | | | |
| 1 | 0.00 | 99.23 | | | | | | | | | | | | | | | | | | | | |
| 2 | 0.10 | 99.13 | | | | | | | | | | | | | | | | | | | | |
| 3 | 2.60 | 97.56 | | | | | | | | | | | | 0.04 | 0.08 | | | | | | | |
| 4 | 4.00 | 97.26 | | | | | | | | | | | | 0.08 | 0.15 | | | | | | | |
| * 5 | 5.00 | 95.26 | 0.20 | | 0.43 | * | | 0.57 | * | | 0.00 | 0.52 | * 0.08 | 0.25 | 0.17 | | | | | | | |
| * 6 | 5.50 | 95.26 | 0.20 | | 0.43 | * | | 0.57 | * | | 0.00 | 0.52 | * 0.09 | 0.25 | 0.18 | | | | | | | |
| * 7 | 6.00 | 95.76 | 0.13 | | 0.33 | * | | 0.46 | * | | 0.00 | 0.43 | * 0.09 | 0.22 | 0.18 | | | | | | | |
| 8 | 6.50 | 97.06 | | | | | | | | | 0.00 | 0.11 | 0.10 | 0.11 | 0.18 | | | | | | | |
| 9 | 7.00 | 97.06 | | | | | | | | | 0.00 | 0.11 | 0.12 | 0.11 | 0.19 | | | | | | | |
| 10 | 8.00 | 96.76 | | | | | | 0.00 | 0.16 | 0.16 | 0.23 | 0.20 | 0.22 | 0.14 | 0.24 | | | | | | | |
| * 11 | 9.00 | 96.76 | | | | | | 0.13 | 0.21 | 0.22 | 0.64 | 0.72 | 0.48 | 3.50 | 1.57 | | | | | | | |
| 12 | 10.00 | 96.46 | | | 0.00 | 0.07 | 0.11 | 0.33 | 0.33 | 0.36 | 0.79 | 0.74 | 0.70 | 1.74 | 1.85 | | | | | | | |
| * 13 | 11.00 | 96.36 | 0.00 | 0.09 | 0.03 | 0.09 | 0.31 | 0.94 | 0.85 | 0.80 | 1.52 | 2.88 | * 1.34 | 13.91 | 2.74 | | | | | | | |
| 14 | 11.50 | 96.16 | 0.06 | 0.16 | 0.37 | 0.34 | 0.49 | 0.92 | 1.07 | 1.11 | 2.05 | 1.75 | 1.73 | 2.38 | 3.10 | | | | | | | |
| 15 | 12.00 | 96.46 | | | 0.20 | 0.17 | 0.28 | 0.60 | 0.81 | * 0.86 | 2.21 | 1.71 | * 1.64 | 3.66 | 4.24 | | | | | | | |
| * 16 | 12.50 | 96.46 | | | 0.31 | 0.31 | 0.41 | 1.45 | 1.31 | 1.27 | 2.60 | 2.60 | 2.43 | 4.98 | 6.23 | | | | | | | |
| * 17 | 13.00 | 96.36 | 0.02 | 0.07 | 0.20 | 0.21 | 0.31 | 1.45 | 1.09 | * 1.01 | 2.19 | 2.46 | 1.98 | 5.88 | 5.34 | | | | | | | |
| * 18 | 14.00 | 96.26 | 0.01 | 0.07 | 0.13 | 0.15 | 0.31 | 1.43 | 0.90 | * 0.89 | 1.79 | 2.26 | * 1.64 | 6.58 | 3.94 | | | | | | | |
| 19 | 15.00 | 96.16 | 0.02 | 0.08 | 0.23 | 0.22 | 0.36 | 1.12 | 1.07 | 1.14 | 2.40 | 2.31 | 2.21 | 5.09 | 5.81 | | | | | | | |
| * 20 | 16.00 | 95.56 | 0.50 | 0.15 | 0.49 | 0.63 | 0.27 | 1.25 | 0.53 | * 0.40 | 0.22 | 0.36 | 0.47 | 0.10 | 0.52 | | | | | | | |
| 21 | 17.00 | 94.86 | 0.15 | 0.35 | 0.56 | 0.53 | 0.70 | 1.03 | 1.08 | 1.11 | 1.46 | 1.33 | 1.36 | 1.09 | 1.61 | | | | | | | |
| 22 | 17.50 | 94.96 | 0.04 | 0.13 | 0.31 | 0.30 | 0.45 | 1.09 | 1.06 | 1.11 | 1.97 | 1.87 | 1.84 | 2.91 | 3.64 | | | | | | | |
| 23 | 18.00 | 94.66 | 0.11 | 0.27 | 0.47 | 0.45 | 0.61 | 1.04 | 1.06 | 1.09 | 1.53 | 1.42 | 1.45 | 1.37 | 1.95 | | | | | | | |
| * 24 | 18.50 | 95.06 | 1.86 | 0.07 | 1.03 | 0.98 | 0.22 | 0.39 | 0.38 | 0.51 | 0.17 | 0.16 | 0.81 | 0.02 | 1.50 | | | | | | | |
| 25 | 19.00 | 95.16 | 0.39 | 0.74 | 0.72 | 0.76 | 0.90 | 1.25 | 0.93 | * 0.93 | 0.71 | 0.81 | 0.87 | 0.36 | 0.62 | | | | | | | |
| * 26 | 19.50 | 95.56 | 0.92 | 1.00 | 1.55 | 1.41 | 1.32 | 1.23 | 1.40 | 1.45 | 1.22 | 1.06 | 1.41 | 0.37 | 1.09 | | | | | | | |
| * 27 | 20.00 | 96.06 | 1.11 | 0.28 | 1.12 | 1.11 | 0.56 | 0.86 | 0.76 | 0.88 | 0.44 | 0.45 | 1.08 | 0.10 | 1.27 | | | | | | | |
| * 28 | 20.50 | 95.26 | 0.94 | 0.43 | 1.17 | 1.12 | 0.72 | 0.90 | 0.89 | 0.98 | 0.61 | 0.58 | 1.10 | 0.16 | 1.09 | | | | | | | |
| * 29 | 21.00 | 95.86 | 0.26 | 0.43 | 0.65 | 0.53 | 0.65 | 0.42 | 0.66 | * 0.79 | 0.84 | 0.59 | * 0.82 | 0.27 | 0.72 | | | | | | | |
| 30 | 21.50 | 95.56 | 0.07 | 0.14 | 0.19 | 0.17 | 0.20 | 0.19 | 0.24 | 0.24 | 0.29 | 0.23 | 0.25 | 0.13 | 0.21 | | | | | | | |
| * 31 | 22.00 | 95.46 | 0.23 | 0.09 | 0.31 | 0.26 | 0.16 | 0.14 | 0.20 | 0.22 | 0.17 | 0.13 | 0.26 | 0.03 | 0.27 | | | | | | | |
| 32 | 22.50 | 95.66 | 0.12 | 0.22 | 0.20 | 0.21 | 0.24 | 0.29 | 0.22 | 0.22 | 0.16 | 0.18 | 0.19 | 0.07 | 0.12 | | | | | | | |
| 33 | 23.00 | 95.76 | 0.05 | 0.12 | 0.13 | 0.17 | 0.22 | 0.69 | 0.31 | * 0.31 | 0.22 | 0.35 | 0.36 | 0.25 | 0.38 | | | | | | | |
| 34 | 23.50 | 95.86 | 0.52 | 0.82 | 0.50 | 0.62 | 0.66 | 1.02 | 0.49 | * 0.48 | 0.21 | 0.32 | 0.35 | 0.09 | 0.17 | | | | | | | |
| 35 | 24.00 | 96.36 | 0.39 | 0.65 | 0.52 | 0.54 | 0.59 | 0.61 | 0.48 | 0.48 | 0.31 | 0.34 | 0.37 | 0.11 | 0.20 | | | | | | | |
| 36 | 24.50 | 95.76 | 0.11 | 0.30 | 0.54 | 0.55 | 0.79 | 1.85 | 1.53 | 1.59 | 2.16 | 2.29 | 2.29 | 2.66 | 3.58 | | | | | | | |
| * 37 | 25.00 | 95.56 | 0.59 | 1.07 | 1.90 | 1.60 | 1.98 | 1.80 | 2.56 | * 2.93 | 3.58 | 2.68 | * 3.45 | 1.65 | 3.76 | | | | | | | |
| 38 | 25.50 | 94.96 | 0.17 | 0.43 | 0.79 | 0.72 | 0.98 | 1.46 | 1.69 | 1.75 | 2.68 | 2.28 | 2.32 | 2.21 | 3.14 | | | | | | | |
| * 39 | 26.00 | 95.26 | 0.03 | 0.09 | 0.19 | 0.21 | 0.27 | 1.11 | 0.75 | * 0.64 | 1.10 | 1.33 | * 1.03 | 2.08 | 1.92 | | | | | | | |
| 40 | 26.50 | 95.86 | 0.41 | 0.78 | 0.93 | 0.84 | 1.00 | 0.91 | 1.06 | 1.07 | 1.11 | 0.95 | 1.01 | 0.44 | 0.76 | | | | | | | |
| * 41 | 27.00 | 95.66 | 0.00 | 0.09 | 0.06 | 0.08 | 0.28 | 1.46 | 0.62 | * 0.66 | 1.15 | 1.86 | * 1.05 | 7.39 | 1.96 | | | | | | | |
| * 42 | 27.50 | 95.66 | 0.58 | 0.86 | 1.18 | 0.98 | 1.09 | 0.71 | 1.05 | * 1.17 | 1.15 | 0.84 | * 1.11 | 0.32 | 0.83 | | | | | | | |
| 43 | 28.00 | 95.46 | 0.49 | 0.94 | 1.01 | 1.00 | 1.20 | 1.44 | 1.28 | 1.29 | 1.13 | 1.15 | 1.23 | 0.54 | 0.92 | | | | | | | |
| 44 | 28.50 | 95.16 | 0.59 | 0.94 | 0.68 | 0.74 | 0.79 | 0.86 | 0.60 | * 0.59 | 0.34 | 0.40 | 0.45 | 0.11 | 0.22 | | | | | | | |
| 45 | 29.00 | 95.36 | 0.27 | 0.54 | 0.62 | 0.61 | 0.73 | 0.89 | 0.83 | 0.84 | 0.79 | 0.78 | 0.83 | 0.40 | 0.66 | | | | | | | |
| * 46 | 30.00 | 95.46 | 0.05 | 0.14 | 0.23 | 0.18 | 0.29 | 0.19 | 0.34 | 0.48 | 0.62 | 0.40 | * 0.59 | 0.30 | 0.72 | | | | | | | |
| 47 | 31.00 | 95.76 | 0.00 | 0.00 | 0.02 | 0.02 | 0.04 | 0.17 | 0.16 | 0.18 | 0.52 | 0.50 | 0.46 | 2.09 | 2.02 | | | | | | | |
| 48 | 32.00 | 95.96 | 0.01 | 0.02 | 0.06 | 0.06 | 0.09 | 0.23 | 0.23 | 0.24 | 0.45 | 0.43 | 0.41 | 0.74 | 0.90 | | | | | | | |
| 49 | 33.00 | 96.36 | 0.01 | 0.03 | 0.05 | 0.06 | 0.08 | 0.27 | 0.18 | 0.18 | 0.23 | 0.29 | 0.28 | 0.38 | 0.49 | | | | | | | |
| * 50 | 34.00 | 96.66 | | | | 0.01 | | 0.02 | 0.06 | 0.05 | 0.23 | 0.19 | 0.19 | 0.90 | 1.48 | | | | | | | |
| * 51 | 34.80 | 96.76 | | | | | | | 0.16 | | 0.24 | 0.21 | 0.23 | 0.14 | 0.33 | | | | | | | |
| * 52 | 35.00 | 96.96 | | | | | | | 0.01 | | 0.02 | 0.02 | 0.02 | 0.01 | 0.03 | | | | | | | |
| 53 | 36.20 | 97.26 | | | | | | | | | | | | 0.01 | 0.02 | | | | | | | |
| 54 | 36.35 | 97.64 | | | | | | | | | | | | 0.00 | 0.01 | | | | | | | |
| 55 | 41.10 | 99.07 | | | | | | | | | | | | | | | | | | | | |
| 56 | 41.18 | 99.16 | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | 3 * | | | 7 * | | | 16 * | | | 14 * | | | 12 * | | | 5 * | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.5 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|------|-------------|------|-------|--------|---|-------------|--------|-------------|-------------|--------|--------|------|-------------|-----------|
| Transect 5 | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | 96.39 | | 96.72 | | | | 97.04 | | | | 97.28 | | | | 97.76 | | | |
| Disch (cfs) | | 4.00 | | 10.00 | | | | 22.00 | | | | 37.00 | | | | 92.50 | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Meas | Orig | Rev | |
| 1 | 0.00 | 99.23 | | | | | | | | | | | | | | | | | |
| 2 | 0.10 | 99.06 | | | | | | | | | | | | | | | | | |
| 3 | 3.30 | 98.83 | | | | | | | | | | | | | | | | | |
| 4 | 3.40 | 97.27 | | | | | | | | | | | | | | | 0.01 | 0.01 | 0.08 0.09 |
| 5 | 4.00 | 96.32 | | 0.02 | 0.02 | | 0.08 | | 0.08 | | 0.13 | 0.13 | 0.15 | 0.15 | 0.15 | | | 0.16 0.18 | |
| 6 | 5.00 | 98.98 | | | | | | | | | | | | | | | | | |
| 7 | 6.00 | 97.49 | | | | | | | | | | | | | | | | | 0.20 0.23 |
| 8 | 7.00 | 97.35 | | | | | | | | | | | | | | | | | 0.26 0.31 |
| 9 | 8.00 | 96.42 | | | | 0.26 | 0.23 | | 0.25 | | 0.19 | 0.24 | 0.24 | 0.25 | 0.22 | 0.22 | | 0.16 0.18 | |
| 10 | 9.00 | 99.40 | | | | | | | | | | | | | | | | | |
| 11 | 10.00 | 99.62 | | | | | | | | | | | | | | | | | |
| 12 | 11.00 | 95.47 | | 0.12 | 0.16 | 0.16 | 0.14 | | 0.15 | | 0.08 | 0.12 | 0.12 | 0.13 | 0.10 | 0.10 | | 0.06 0.07 | |
| 13 | 12.00 | 94.92 | | 0.13 | 0.16 | 0.54 | 0.52 | | 0.53 | | 1.39 | 1.37 | 1.36 | 2.28 | 2.35 | 2.45 | | 5.05 6.40 | |
| 14 | 12.50 | 94.87 | | 0.34 | 0.43 | 0.75 | 0.64 | | 0.66 | | 0.55 | 0.86 * | 0.86 * | 1.31 | 0.96 * | 0.99 * | | 0.96 1.17 | |
| 15 | 13.00 | 94.77 | | 0.15 | 0.18 | 0.42 | 0.43 | | 0.44 | | 1.12 | 0.86 * | 0.86 * | 0.99 | 1.23 * | 1.26 * | | 1.92 2.35 | |
| 16 | 13.50 | 94.42 | | 0.45 | 0.61 | 0.76 | 0.80 | | 0.85 | | 1.56 | 1.04 * | 1.03 * | 0.80 | 1.11 * | 1.12 * | | 1.05 1.22 | |
| * | 17 | 14.00 | 95.17 | 0.20 | 0.30 | 1.2 | 1.00 | | 1.02 | | 3.47 | 3.09 | 2.67 * | 5.34 | 5.93 | 4.83 | | 15.39 12.81 | |
| 18 | 14.50 | 95.27 | | 0.43 | 0.52 | 1.54 | 1.36 | | 1.39 | | 2.15 | 2.92 * | 2.91 * | 5.39 | 4.39 | 4.56 | | 7.44 9.37 | |
| 19 | 15.00 | 94.72 | | 0.63 | 0.83 | 1.26 | 1.26 | | 1.32 | | 2.17 | 1.79 | 1.78 | 1.73 | 2.05 | 2.08 * | | 2.16 2.56 | |
| 20 | 15.50 | 94.67 | | 0.17 | 0.20 | 0.67 | 0.67 | | 0.68 | | 2.18 | 1.78 | 1.77 | 2.59 | 3.07 | 3.18 * | | 6.62 8.34 | |
| 21 | 16.00 | 94.77 | | 0.21 | 0.25 | 0.78 | 0.81 | | 0.82 | | 2.84 | 2.06 * | 2.05 * | 2.69 | 3.47 * | 3.59 * | | 7.19 8.99 | |
| * | 22 | 16.50 | 94.72 | 0.26 | 0.34 | 0.96 | 0.97 | | 0.99 | | 2.99 | 2.41 | 2.23 * | 3.33 | 3.99 | 3.64 | | 7.98 8.11 | |
| 23 | 17.00 | 95.37 | | 0.14 | 0.17 | 0.69 | 0.67 | | 0.67 | | 2.03 | 2.01 | 2.00 | 3.68 | 3.78 | 3.95 | | 9.51 12.23 | |
| 24 | 17.50 | 95.27 | | 0.29 | 0.36 | 0.72 | 0.56 | | 0.58 | | 0.36 | 0.78 * | 0.78 * | 1.53 | 0.89 * | 0.91 * | | 0.91 1.12 | |
| * | 25 | 18.00 | 95.07 | 0.54 | 0.14 | 0.70 | 0.59 | | 0.31 * | | 0.31 | 0.50 | 0.54 * | 0.56 | 0.41 | 0.75 | | 0.24 1.26 | |
| * | 26 | 18.50 | 94.77 | 0.66 | 0.13 | 0.61 | 0.58 | | 0.27 * | | 0.42 | 0.41 | 0.45 | 0.28 | 0.30 | 0.61 * | | 0.14 0.95 | |
| * | 27 | 19.00 | 95.27 | 0.24 | 0.08 | 0.26 | 0.25 | | 0.15 | | 0.20 | 0.20 | 0.21 | 0.15 | 0.16 | 0.26 | | 0.08 0.35 | |
| 28 | 19.50 | 95.52 | | 0.03 | 0.04 | 0.07 | 0.08 | | 0.09 | | 0.41 | 0.17 * | 0.17 * | 0.12 | 0.24 | 0.24 | | 0.37 0.44 | |
| 29 | 20.00 | 95.87 | | 0.01 | 0.01 | 0.04 | 0.05 | | 0.05 | | 0.26 | 0.13 | 0.13 | 0.14 | 0.24 | 0.24 | | 0.56 0.70 | |
| * | 30 | 20.50 | 95.42 | 0.74 | 0.03 | 0.45 | 0.44 | | 0.11 * | | 0.26 | 0.22 | 0.27 | 0.11 | 0.13 | 0.47 * | | 0.04 1.18 | |
| 31 | 21.00 | 95.47 | | 0.04 | 0.06 | 0.10 | 0.10 | | 0.10 | | 0.19 | 0.16 | 0.16 | 0.17 | 0.20 | 0.20 | | 0.24 0.29 | |
| * | 32 | 22.00 | 95.47 | 0.02 | 0.05 | 0.06 | 0.06 | | 0.10 | | 0.22 | 0.17 | 0.19 | 0.23 | 0.29 | 0.27 | | 0.63 0.48 | |
| * | 33 | 23.00 | 95.42 | 0.00 | 0.03 | 0.01 | 0.01 | | 0.10 | | 0.22 | 0.12 | 0.22 | 0.34 | 0.53 | 0.36 | | 5.78 0.80 | |
| * | 34 | 24.00 | 95.27 | 0.00 | 0.06 | 0.01 | 0.01 | | 0.10 | | 0.20 | 0.09 | 0.14 | 0.16 | 0.30 | 0.17 | | 2.08 0.22 | |
| * | 35 | 25.00 | 95.12 | 0.00 | 0.06 | 0.01 | 0.01 | | 0.10 | | 0.21 | 0.06 | 0.13 | 0.06 | 0.15 | 0.15 | | 0.62 0.19 | |
| * | 36 | 26.00 | 95.27 | 0.01 | 0.06 | 0.01 | 0.01 | | 0.09 | | 0.09 | 0.02 | 0.12 | 0.01 | 0.03 | 0.13 | | 0.04 0.15 | |
| 37 | 27.00 | 96.72 | | | | | | | | | | 0.07 | 0.07 | 0.10 | 0.10 | 0.10 | | 0.12 0.14 | |
| 38 | 28.00 | 97.27 | | | | | | | | | | | | | 0.01 | 0.01 | | 0.07 0.09 | |
| 39 | 29.30 | 97.70 | | | | | | | | | | | | | | | | 0.02 0.02 | |
| 40 | 32.00 | 98.60 | | | | | | | | | | | | | | | | | |
| 41 | 32.14 | 99.87 | | | | | | | | | | | | | | | | | |
| Total | | | | | | | 0 * | | 3 * | | 7 * | | 10 * | | 5 * | | 9 * | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.6 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | | | | |
|---|----|-------|--------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|-----|
| Transect 6 | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 96.33 | | 96.51 | | | 96.68 | | | 96.80 | | | 97.04 | | |
| Disch (cfs) | | | 4.00 | | 10.00 | | | 22.00 | | | 37.00 | | | 92.50 | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Orig | Rev |
| | 1 | 0.00 | 101.43 | | | | | | | | | | | | | |
| | 2 | 0.50 | 101.04 | | | | | | | | | | | | | |
| * | 3 | 1.50 | 95.94 | | | | | | | | | | | | | |
| | 4 | 1.90 | 96.82 | | | | | | | | | | | | | |
| | 5 | 2.10 | 95.82 | | | | | | | | | | | | | |
| | 6 | 2.50 | 95.47 | | | | | | | | | | | | | |
| | 7 | 3.00 | 95.57 | | | | | | | | | | | | | |
| | 8 | 3.50 | 95.67 | | | | | | | | | | | | | |
| | 9 | 4.00 | 95.22 | | | | | | | | | | | | | |
| | 10 | 4.50 | 95.22 | | | | | | | | | | | | | |
| | 11 | 5.00 | 95.07 | | | | | | | | | | | | | |
| | 12 | 5.50 | 95.07 | | | | | | | | | | | | | |
| | 13 | 6.00 | 95.07 | | | | | | | | | | | | | |
| | 14 | 6.50 | 96.02 | | | | | | | | | | | | | |
| | 15 | 7.50 | 96.12 | | | | | | | | | | | | | |
| | 16 | 8.50 | 96.12 | | | | | | | | | | | | | |
| | 17 | 9.00 | 96.12 | | | | | | | | | | | | | |
| | 18 | 9.50 | 96.12 | | | | | | | | | | | | | |
| | 19 | 10.00 | 96.12 | | | | | | | | | | | | | |
| * | 20 | 10.50 | 96.12 | | | | | | | | | | | | | |
| | 21 | 11.00 | 95.87 | | | | | | | | | | | | | |
| | 22 | 11.50 | 95.62 | | | | | | | | | | | | | |
| | 23 | 12.00 | 95.32 | | | | | | | | | | | | | |
| | 24 | 12.50 | 96.22 | | | | | | | | | | | | | |
| * | 25 | 13.00 | 96.32 | | | | | | | | | | | | | |
| * | 26 | 13.50 | 96.27 | | | | | | | | | | | | | |
| * | 27 | 14.00 | 96.22 | | | | | | | | | | | | | |
| * | 28 | 14.40 | 96.72 | | | | | | | | | | | | | |
| * | 29 | 15.00 | 95.92 | | | | | | | | | | | | | |
| * | 30 | 15.50 | 96.22 | | | | | | | | | | | | | |
| * | 31 | 15.70 | 96.17 | | | | | | | | | | | | | |
| | 32 | 16.70 | 96.97 | | | | | | | | | | | | | |
| * | 33 | 17.30 | 96.22 | | | | | | | | | | | | | |
| | 34 | 18.00 | 96.32 | | | | | | | | | | | | | |
| | 35 | 19.20 | 97.08 | | | | | | | | | | | | | |
| | 36 | 20.00 | 96.12 | | | | | | | | | | | | | |
| | 37 | 20.50 | 96.02 | | | | | | | | | | | | | |
| | 38 | 21.00 | 96.22 | | | | | | | | | | | | | |
| | 39 | 21.50 | 96.12 | | | | | | | | | | | | | |
| | 40 | 22.00 | 96.62 | | | | | | | | | | | | | |
| | 41 | 22.10 | 96.82 | | | | | | | | | | | | | |
| | 42 | 24.10 | 98.85 | | | | | | | | | | | | | |
| | 43 | 24.20 | 100.08 | | | | | | | | | | | | | |
| | 44 | 25.40 | 100.75 | | | | | | | | | | | | | |
| | 45 | 25.44 | 100.77 | | | | | | | | | | | | | |
| Total | | | | | | | 7 * | 3 * | | 8 * | 9 * | | 4 * | 6 * | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.7 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | | | | |
|---|------|-------|--------|-------|-------|--------------|-------|--------|-------------|-------|--------|---------------|-------|--------|--------|------|
| Transect 7 | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 96.34 | | 96.62 | | | 96.89 | | | 97.09 | | | 97.48 | | |
| Disch (cfs) | | | 4.00 | | 10.00 | | | 22.00 | | | 37.00 | | | 92.50 | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Orig | Rev |
| 1 | 0.00 | 98.84 | | | | | | | | | | | | | | |
| 2 | 0.20 | 98.45 | | | | | | | | | | | | | | |
| 3 | 0.50 | 97.66 | | | | | | | | | | | | | | |
| 4 | 0.90 | 97.47 | | | | | | | | | | | | | | |
| 5 | 5.00 | 97.40 | | | | | | | | | | | | | 0.00 | 0.01 |
| 6 | 7.40 | 97.07 | | | | | | | | | | | | | -0.02 | 0.03 |
| 7 | 8.30 | 96.97 | | | | | | | | | | | | | -0.06 | 0.09 |
| 8 | 9.00 | 96.72 | | | | | | | | | | | | | -0.07 | 0.11 |
| * | 9 | 10.00 | 96.57 | | | | | | | | | | | | -0.10 | 0.14 |
| * | 10 | 11.00 | 96.27 | 33.20 | 0.02 | 0.00 | 0.08 | 0.11 | 0.09 | 0.17 | 0.09 | -0.13 | -0.13 | 0.13 | -0.10 | 0.14 |
| * | 11 | 12.00 | 95.97 | 0.00 | 0.01 | -0.36 | -0.04 | * 0.05 | 0.08 | -0.05 | 0.15 | 0.04 | 0.13 | 0.28 | * 0.20 | 0.64 |
| * | 12 | 13.00 | 95.77 | 0.00 | 0.05 | -0.12 | -0.01 | 0.11 | 0.21 | 0.09 | 0.16 | 0.10 | 0.19 | 0.19 | 0.18 | 0.20 |
| * | 13 | 13.70 | 95.77 | 0.00 | 0.02 | 0.00 | 0.03 | 0.06 | 0.24 | 0.24 | 0.11 | 0.00 | 0.25 | * 0.14 | 0.14 | 0.20 |
| * | 14 | 14.80 | 96.17 | 0.00 | 0.02 | -0.18 | -0.02 | 0.06 | 0.08 | 0.02 | 0.12 | 0.09 | 0.13 | 0.17 | 0.15 | 0.25 |
| * | 15 | 16.80 | 94.77 | 0.00 | 0.05 | 0.18 | 0.03 | 0.11 | 0.30 | 0.12 | 0.16 | 0.04 | 0.08 | 0.19 | 0.02 | 0.20 |
| * | 16 | 18.00 | 94.77 | 0.00 | 0.02 | 0.10 | 0.02 | 0.13 | 0.83 | 0.56 | * 0.50 | 1.12 | 1.44 | * 1.11 | 4.19 | 3.53 |
| * | 17 | 19.00 | 94.67 | 0.00 | 0.39 | 0.55 | 0.08 | * 0.62 | 0.84 | 0.74 | 0.76 | 0.73 | 0.78 | 0.78 | 0.48 | 0.63 |
| * | 18 | 19.50 | 94.67 | 0.00 | 0.51 | 0.57 | 0.08 | * 0.59 | 0.53 | 0.54 | 0.55 | 0.48 | 0.46 | 0.47 | 0.20 | 0.28 |
| * | 19 | 20.00 | 94.77 | 0.00 | 1.22 | 1.00 | 0.13 | * 0.95 | 0.56 | 0.62 | 0.63 | 0.46 | 0.42 | 0.43 | 0.11 | 0.17 |
| * | 20 | 20.50 | 94.87 | 0.00 | 0.20 | 0.45 | 0.06 | * 0.32 | 0.34 | 0.36 | 0.40 | 0.31 | 0.29 | 0.41 | 0.10 | 0.34 |
| * | 21 | 21.00 | 94.87 | 0.00 | 0.08 | 0.26 | 0.03 | * 0.31 | 0.27 | 0.51 | * 0.78 | 1.31 | 0.77 | * 1.28 | 0.89 | 2.42 |
| * | 22 | 21.50 | 94.97 | 0.00 | 0.66 | 0.95 | 0.12 | * 0.95 | 0.91 | 1.03 | 1.07 | 1.15 | 1.01 | 1.03 | 0.52 | 0.77 |
| * | 23 | 22.00 | 95.07 | 0.00 | 0.39 | 0.70 | 0.10 | * 0.81 | 1.36 | 1.19 | 1.24 | 1.39 | 1.49 | 1.47 | 1.20 | 1.57 |
| * | 24 | 22.50 | 95.67 | 0.00 | 1.53 | 2.33 | 0.31 | * 2.38 | 2.49 | 2.77 | 2.88 | 3.18 | 2.84 | 2.91 | 1.61 | 2.35 |
| * | 25 | 23.00 | 95.47 | 0.00 | 1.89 | 2.83 | 0.36 | * 2.78 | 2.55 | 3.08 | * 3.20 | 3.60 | 3.02 | 3.13 | 1.59 | 2.39 |
| * | 26 | 23.50 | 94.52 | 0.00 | 0.86 | 1.26 | 0.17 | * 1.40 | 1.87 | 1.70 | 1.77 | 1.78 | 1.85 | 1.84 | 1.16 | 1.56 |
| * | 27 | 24.00 | 94.77 | 0.00 | 0.22 | 0.78 | 0.11 | * 0.83 | 3.05 | 2.39 | * 2.17 | 3.72 | 4.29 | 3.64 | 6.55 | 7.16 |
| * | 28 | 24.50 | 94.77 | 0.00 | 0.41 | 1.04 | 0.14 | * 1.21 | 2.45 | 2.39 | 2.54 | 3.76 | 3.68 | 3.70 | 4.28 | 5.68 |
| * | 29 | 25.00 | 94.97 | 0.00 | 0.22 | 0.59 | 0.08 | * 0.73 | 1.83 | 1.59 | 1.69 | 2.49 | 2.66 | 2.63 | 3.60 | 4.54 |
| * | 30 | 25.50 | 94.87 | 0.00 | 0.03 | 0.13 | 0.02 | 0.17 | 1.49 | 0.81 | * 0.65 | 1.44 | 2.18 | * 1.42 | 6.78 | 4.50 |
| * | 31 | 26.00 | 94.97 | 0.00 | 0.03 | 0.05 | 0.01 | 0.21 | 1.13 | 0.63 | * 0.92 | 1.85 | 2.71 | * 2.13 | 19.12 | 7.49 |
| * | 32 | 26.50 | 95.07 | 0.00 | 0.03 | 0.02 | 0.01 | 0.19 | 0.72 | 0.59 | 0.83 | 2.15 | 2.90 | * 2.00 | 26.31 | 7.37 |
| * | 33 | 27.00 | 95.07 | 0.00 | 0.08 | -0.23 | -0.03 | 0.29 | 0.79 | 0.69 | 0.74 | 1.16 | 1.18 | 1.22 | 1.00 | 2.36 |
| * | 34 | 28.00 | 95.47 | 0.00 | 0.13 | -0.20 | -0.02 | 0.22 | 0.28 | 0.17 | 0.28 | 0.30 | 0.36 | 0.30 | 0.35 | 0.26 |
| * | 35 | 29.00 | 95.47 | 0.00 | 0.21 | -0.40 | -0.05 | * 0.32 | 0.14 | 0.06 | 0.39 | * 0.30 | 0.33 | 0.39 | 0.39 | 0.32 |
| * | 36 | 30.00 | 95.62 | 0.00 | 0.06 | -0.44 | -0.05 | * 0.16 | 0.09 | -0.03 | 0.31 | * 0.14 | 0.21 | 0.43 | * 0.30 | 0.61 |
| | 37 | 30.50 | 97.07 | | | | | | | | | | | | -0.11 | 0.05 |
| | 38 | 30.90 | 99.05 | | | | | | | | | | | | | |
| | 39 | 34.60 | 97.33 | | | | | | | | | | | | | |
| | 40 | 36.10 | 97.52 | | | | | | | | | | | | | |
| | 41 | 36.50 | 98.56 | | | | | | | | | | | | | |
| | 42 | 37.50 | 97.77 | | | | | | | | | | | | | |
| | 43 | 40.50 | 98.28 | | | | | | | | | | | | | |
| | 44 | 46.80 | 100.54 | | | | | | | | | | | | | |
| | 45 | 47.00 | 100.66 | | | | | | | | | | | | | |
| Total | | | | | | 17 * | 2 * | | 7 * | 7 * | | 6 * | 2 * | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.8 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|------|--------------|-------|------|--------------|------|------|-------------|-------------|-------------|-------|-------|------|------|------|------|--|
| Transect 8 | | | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 92.55 | | | 92.92 | | | 93.29 | | | 93.57 | | | 94.13 | | | | | | |
| Disch (cfs) | | | 4.00 | | | 10.00 | | | 22.00 | | | 37.00 | | | 92.50 | | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Orig | Rev | | | | | |
| 1 | 0.00 | 98.19 | | | | | | | | | | | | | | | | | | | |
| 2 | 0.30 | 97.64 | | | | | | | | | | | | | | | | | | | |
| 3 | 0.40 | 96.14 | | | | | | | | | | | | | | | | | | | |
| 4 | 1.00 | 96.17 | | | | | | | | | | | | | | | | | | | |
| 5 | 2.30 | 95.76 | | | | | | | | | | | | | | | | | | | |
| 6 | 2.40 | 93.26 | | | | | | | 0.06 | 0.06 | | 0.25 | * | 0.25 | * | 0.31 | 0.30 | | | | |
| 7 | 3.00 | 93.51 | | | | | | | | | | 0.08 | | | | 0.25 | | | | | |
| 8 | 4.00 | 92.92 | | | | | | | 0.31 | * | 0.32 | * | 0.41 | * | 0.41 | * | 0.39 | 0.38 | | | |
| 9 | 7.76 | 96.64 | | | | | | | | | | | | | | | | | | | |
| 10 | 10.20 | 95.46 | | | | | | | | | | | | | | | | | | | |
| 11 | 10.75 | 93.55 | | | | | | | | | | 0.04 | 0.04 | | | 0.24 | 0.23 | | | | |
| 12 | 11.20 | 93.05 | | | | | | | 0.00 | 0.24 | * | 0.24 | * | 0.35 | 0.35 | 0.36 | 0.35 | | | | |
| 13 | 11.60 | 94.01 | | | | | | | | | | | | | | 0.35 | 0.35 | | | | |
| 14 | 12.30 | 92.55 | | | | 1.19 | 1.02 | 1.02 | 0.66 | 1.06 | * | 1.08 | * | 1.18 | 0.90 | * | 0.92 | * | 0.53 | 0.51 | |
| 15 | 12.50 | 92.55 | | | | 0.98 | 0.91 | 0.90 | 0.85 | 1.11 | * | 1.13 | * | 1.21 | 1.05 | 1.07 | 0.74 | 0.72 | | | |
| 16 | 13.00 | 92.70 | | | | 0.70 | 0.71 | 0.71 | 1.22 | 1.22 | 1.25 | 1.42 | 1.46 | 1.49 | 1.53 | 1.49 | | | | | |
| 17 | 13.50 | 92.45 | | 0.20 | 0.19 | 0.70 | 0.73 | 0.73 | 1.67 | 1.55 | 1.58 | 1.95 | 2.11 | 2.15 | 2.81 | 2.73 | | | | | |
| 18 | 14.00 | 91.70 | | 0.31 | 0.30 | 1.14 | 1.10 | 1.10 | 1.94 | 2.24 | 2.29 | 3.16 | 2.97 | 3.03 | 3.79 | 3.67 | | | | | |
| 19 | 14.30 | 91.35 | | 0.33 | 0.32 | 1.12 | 1.14 | 1.14 | 2.27 | 2.27 | 2.32 | 2.88 | 2.97 | 3.03 | 3.69 | 3.58 | | | | | |
| 20 | 14.60 | 91.45 | | 0.25 | 0.24 | 1.10 | 1.09 | 1.09 | 2.50 | 2.69 | 2.75 | 4.13 | 4.06 | 4.15 | 6.49 | 6.29 | | | | | |
| 21 | 15.00 | 91.00 | | 0.06 | 0.06 | 0.50 | 0.50 | 0.50 | 2.07 | 2.15 | 2.21 | 4.67 | 4.69 | 4.79 | 14.30 | 13.86 | | | | | |
| 22 | 15.30 | 91.00 | | 0.11 | 0.11 | 0.74 | 0.68 | 0.68 | 1.65 | 2.20 | * | 2.26 | * | 4.66 | 3.99 | 4.07 | 8.81 | 8.51 | | | |
| 23 | 15.60 | 90.55 | | 0.24 | 0.23 | 0.63 | 0.71 | 0.70 | 1.60 | 1.23 | * | 1.27 | * | 1.23 | 1.49 | * | 1.52 | * | 1.60 | 1.56 | |
| 24 | 16.00 | 90.65 | | 0.19 | 0.18 | 0.49 | 0.56 | 0.56 | 1.39 | 1.00 | * | 1.02 | * | 0.96 | 1.21 | * | 1.24 | * | 1.33 | 1.29 | |
| 25 | 16.30 | 90.65 | | 0.28 | 0.27 | 0.66 | 0.73 | 0.72 | 1.45 | 1.14 | * | 1.17 | * | 1.08 | 1.28 | 1.31 | * | 1.22 | 1.19 | | |
| 26 | 16.60 | 90.75 | | 0.13 | 0.12 | 0.33 | 0.41 | 0.41 | 1.33 | 0.77 | * | 0.78 | * | 0.66 | 0.96 | * | 0.98 | * | 1.11 | 1.08 | |
| 27 | 17.00 | 91.60 | | 0.86 | 0.83 | 0.81 | 0.99 | 0.98 | 1.23 | 0.76 | * | 0.78 | * | 0.38 | 0.53 | 0.54 | 0.22 | 0.21 | | | |
| 28 | 17.50 | 91.65 | | 0.97 | 0.93 | 0.83 | 0.96 | 0.95 | 0.90 | 0.65 | * | 0.66 | * | 0.33 | 0.42 | 0.43 | 0.15 | 0.15 | | | |
| 29 | 18.00 | 91.80 | | 1.49 | 1.44 | 1.25 | 1.23 | 1.23 | 0.65 | 0.71 | 0.73 | 0.43 | 0.42 | 0.42 | 0.12 | 0.12 | | | | | |
| 30 | 18.50 | 91.75 | | 1.85 | 1.80 | 1.17 | 1.04 | 1.03 | 0.29 | 0.43 | 0.44 | 0.25 | 0.20 | 0.20 | 0.04 | 0.04 | | | | | |
| 31 | 19.00 | 91.85 | | 1.96 | 1.91 | 1.41 | 1.29 | 1.29 | 0.46 | 0.62 | 0.63 | 0.37 | 0.32 | 0.32 | 0.07 | 0.07 | | | | | |
| 32 | 19.50 | 90.50 | | 0.68 | 0.66 | 0.74 | 0.65 | 0.65 | 0.29 | 0.43 | 0.44 | 0.34 | 0.27 | 0.28 | 0.09 | 0.09 | | | | | |
| 33 | 20.00 | 90.95 | | 0.42 | 0.40 | 0.61 | 0.73 | 0.72 | 1.23 | 0.80 | * | 0.82 | * | 0.53 | 0.71 | 0.73 | 0.45 | 0.44 | | | |
| 34 | 20.50 | 91.00 | | 0.53 | 0.52 | 0.77 | 0.62 | 0.62 | 0.26 | 0.49 | * | 0.50 | * | 0.50 | 0.35 | 0.35 | 0.15 | 0.14 | | | |
| 35 | 21.00 | 91.85 | | 0.25 | 0.24 | 0.36 | 0.34 | 0.33 | 0.23 | 0.30 | 0.30 | 0.26 | 0.23 | 0.23 | 0.11 | 0.11 | | | | | |
| 36 | 22.00 | 91.15 | | 0.13 | 0.13 | 0.25 | 0.24 | 0.24 | 0.24 | 0.28 | 0.28 | 0.27 | 0.25 | 0.26 | 0.17 | 0.16 | | | | | |
| 37 | 23.00 | 91.25 | | 0.41 | 0.39 | 0.34 | 0.40 | 0.39 | 0.38 | 0.26 | 0.27 | 0.13 | 0.17 | 0.17 | 0.06 | 0.06 | | | | | |
| 38 | 24.00 | 91.35 | | 0.22 | 0.21 | 0.24 | 0.20 | 0.20 | 0.08 | 0.13 | 0.14 | 0.11 | 0.08 | 0.08 | 0.03 | 0.03 | | | | | |
| * | 39 | 25.00 | 91.65 | -0.05 | 0.00 | 0.02 | -0.01 | 0.01 | -0.02 | 0.06 | 0.05 | 0.15 | 0.10 | 0.09 | 0.11 | 0.19 | | | | | |
| * | 40 | 26.00 | 91.75 | -0.12 | 0.01 | 0.08 | 0.00 | 0.04 | -0.02 | 0.21 | 0.11 | 0.45 | 0.31 | 0.16 | * | 0.33 | 0.24 | | | | |
| * | 41 | 27.00 | 92.25 | -0.23 | 0.00 | -0.02 | -0.02 | 0.02 | 0.00 | 0.35 | * | 0.14 | 0.54 | 0.53 | 0.35 | 0.58 | 1.35 | | | | |
| | 42 | 28.00 | 92.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.20 | 0.05 | 0.06 | 0.22 | 0.21 | | | | | |
| | 43 | 28.45 | 93.55 | | | | | | | | | | 0.00 | 0.01 | 0.00 | 0.05 | | | | | |
| | 44 | 28.80 | 96.15 | | | | | | | | | | | | | | | | | | |
| | 45 | 30.80 | 97.44 | | | | | | | | | | | | | | | | | | |
| | 46 | 30.90 | 97.56 | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 0 | * | 0 | * | 14 | * | 12 | * | 6 | * | 8 | * | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 4. Summary of Calibration Details, Lake Creek Study Site 2, 3 Flow Model. | | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|----------|
| Trans No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| DISCHARGE | | | | | | | | |
| Meas. | 10 | 10 | 13 | 10 | 9 | 9 | 9 | 11 |
| | 20 | 19 | 27 | 20 | 23 | 25 | 25 | 20 |
| | 43 | 33 | 43 | 36 | 41 | 37 | 37 | 28 |
| Calc. | 11 | 12 | 10 | 12 | 10 | 12 | 13 | 12 |
| | 21 | 23 | 26 | 25 | 29 | 25 | 27 | 20 |
| | 41 | 34 | 49 | 42 | 41 | 36 | 38 | 28 |
| Given | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| Stage (given) | 97.95 | 97.25 | 97.30 | 96.70 | 96.71 | 96.53 | 96.61 | 92.91 |
| | 98.21 | 97.65 | 97.60 | 97.00 | 97.06 | 96.65 | 96.91 | 93.32 |
| | 98.40 | 97.82 | 97.80 | 97.26 | 97.27 | 96.82 | 97.07 | 93.55 |
| Plotting Stage (given) | 2.05 | 1.88 | 1.90 | 1.84 | 2.09 | 1.26 | 1.89 | 2.31 |
| | 2.31 | 2.28 | 2.20 | 2.14 | 2.44 | 1.38 | 2.19 | 2.72 |
| | 2.50 | 2.45 | 2.40 | 2.40 | 2.65 | 1.55 | 2.35 | 2.95 |
| Ratio of Modeled vs Predicted Discharge (given) | | | | | | | | |
| Based on Stage-Discharge Relationship | 1.000 | 1.028 | 1.008 | 0.987 | 1.015 | 0.924 | 1.020 | 1.018 |
| | 1.001 | 0.903 | 0.979 | 1.030 | 0.959 | 1.152 | 0.940 | 0.947 |
| | 1.000 | 1.078 | 1.013 | 0.983 | 1.028 | 0.940 | 1.043 | 1.037 |
| Mean Error of Stage/Discharge Relationship (given) | 0.0524 | 6.9173 | 1.4202 | 1.9686 | 2.8102 | 9.3090 | 4.1426 | 3.6903 |
| Stage/Discharge Relationship (S vs Q) $S=A*Q^{**}B+SZF$ | | | | | | | | |
| (given) | | | | | | | | |
| A= | 1.4457 | 1.1662 | 1.2591 | 1.1514 | 1.3743 | 0.8552 | 1.2841 | 1.4980 |
| B= | 0.1517 | 0.2099 | 0.1793 | 0.2025 | 0.1832 | 0.1610 | 0.1693 | 0.1896 |
| SZF= | 95.90 | 95.37 | 95.40 | 94.86 | 94.62 | 95.27 | 94.72 | 90.60 |
| B Coefficient log/log Relationship (calculated) | 6.713 | 3.754 | 6.687 | 5.353 | 5.659 | 4.556 | 5.256 | 5.163 |

DRAFT

**LAKE CREEK INSTREAM FLOW REPORT
CALIBRATION REPORT
STUDY SITE 2, TRANSECTS 1-8
1 VELOCITY SET HIGH FLOW CALIBRATION**

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MAY 3, 2007

Table 1a. Velocity Adjustment Factors, Lake Creek Study Site 2, High Flow Deck.

| Flow | Trans 1 | | Trans 2 | | Trans 3 | |
|------|---------|--------|---------|--------|---------|--------|
| | Orig | Rev | Orig | Rev | Orig | Rev |
| 35 | 0.8653 | 1.0825 | 0.9893 | 0.8777 | 0.7664 | 0.7015 |
| 40 | 0.9054 | 1.1637 | 1.0277 | 0.9153 | 0.8130 | 0.7403 |
| 45 | 0.9415 | 1.2400 | 1.0641 | 0.9509 | 0.8571 | 0.7767 |
| 50 | 0.9750 | 1.3128 | 1.0979 | 0.9844 | 0.8991 | 0.8112 |
| 55 | 1.0066 | 1.3824 | 1.1275 | 1.0154 | 0.9394 | 0.8440 |
| 60 | 1.0367 | 1.4493 | 1.1546 | 1.0446 | 0.9780 | 0.8754 |
| 65 | 1.0656 | 1.5139 | 1.1799 | 1.0724 | 1.0153 | 0.9056 |
| 70 | 1.0936 | 1.5765 | 1.2041 | 1.0991 | 1.0514 | 0.9346 |
| 80 | 1.1471 | 1.6965 | 1.2501 | 1.1500 | 1.1203 | 0.9899 |
| 90 | 1.1981 | 1.8106 | 1.2933 | 1.1979 | 1.1856 | 1.0420 |
| 100 | 1.2471 | 1.9199 | 1.3344 | 1.2434 | 1.2478 | 1.0914 |
| 110 | 1.2943 | 2.0251 | 1.3737 | 1.2869 | 1.3073 | 1.1385 |
| 120 | 1.3401 | 2.1267 | 1.4114 | 1.3286 | 1.3646 | 1.1836 |
| 130 | 1.3845 | 2.2252 | 1.4479 | 1.3688 | 1.4198 | 1.2270 |
| 140 | 1.4278 | 2.3208 | 1.4831 | 1.4077 | 1.4732 | 1.2688 |
| 150 | 1.4700 | 2.4140 | 1.5173 | 1.4453 | 1.5250 | 1.3093 |
| 160 | 1.5113 | 2.5049 | 1.5506 | 1.4818 | 1.5753 | 1.3485 |
| 170 | 1.5517 | 2.5938 | 1.5829 | 1.5173 | 1.6243 | 1.3865 |
| 180 | 1.5913 | 2.6808 | 1.6145 | 1.5519 | 1.6721 | 1.4236 |
| 190 | 1.6302 | 2.7660 | 1.6453 | 1.5856 | 1.7187 | 1.4597 |
| 200 | 1.6684 | 2.8497 | 1.6755 | 1.6186 | 1.7643 | 1.4949 |
| 210 | 1.7059 | 2.9319 | 1.7050 | 1.6508 | 1.8090 | 1.5293 |
| 220 | 1.7428 | 3.0127 | 1.7339 | 1.6824 | 1.8527 | 1.5630 |
| 230 | 1.7792 | 3.0922 | 1.7623 | 1.7133 | 1.8956 | 1.5959 |
| 240 | 1.8151 | 3.1705 | 1.7901 | 1.7436 | 1.9377 | 1.6282 |
| 250 | 1.8504 | 3.2477 | 1.8175 | 1.7734 | 1.9790 | 1.6598 |
| 260 | 1.8852 | 3.3238 | 1.8444 | 1.8027 | 2.0197 | 1.6906 |
| 270 | 1.9197 | 3.3988 | 1.8708 | 1.8314 | 2.0592 | 1.7210 |
| 280 | 1.9536 | 3.4730 | 1.8968 | 1.8597 | 2.0983 | 1.7508 |
| 290 | 1.9872 | 3.5461 | 1.9224 | 1.8875 | 2.1369 | 1.7802 |

Table 1b. Velocity Adjustment Factors, Lake Creek Study Site 2, High Flow Deck.

| Flow | Trans 4 | | Trans 5 | | Trans 6 | |
|------|---------|--------|---------|--------|---------|--------|
| | Orig | Rev | Orig | Rev | Orig | Rev |
| 35 | 0.8660 | 0.7668 | 0.8435 | 1.0321 | 0.8561 | 0.9113 |
| 40 | 0.8995 | 0.7964 | 0.9104 | 1.1105 | 0.8124 | 0.8754 |
| 45 | 0.9316 | 0.8249 | 0.9740 | 1.1841 | 0.7745 | 0.8443 |
| 50 | 0.9625 | 0.8521 | 1.0349 | 1.2543 | 0.7436 | 0.8172 |
| 55 | 0.9922 | 0.8780 | 1.0933 | 1.3211 | 0.7203 | 0.7957 |
| 60 | 1.0207 | 0.9026 | 1.1496 | 1.3852 | 0.7024 | 0.7790 |
| 65 | 1.0483 | 0.9261 | 1.2040 | 1.4468 | 0.6882 | 0.7655 |
| 70 | 1.0750 | 0.9488 | 1.2568 | 1.5063 | 0.6768 | 0.7545 |
| 80 | 1.1263 | 0.9920 | 1.3580 | 1.6194 | 0.6600 | 0.7380 |
| 90 | 1.1749 | 1.0326 | 1.4543 | 1.7263 | 0.6485 | 0.7264 |
| 100 | 1.2212 | 1.0712 | 1.5465 | 1.8278 | 0.6406 | 0.7181 |
| 110 | 1.2656 | 1.1079 | 1.6350 | 1.9248 | 0.6352 | 0.7122 |
| 120 | 1.3083 | 1.1430 | 1.7204 | 2.0178 | 0.6315 | 0.7079 |
| 130 | 1.3495 | 1.1768 | 1.8030 | 2.1074 | 0.6291 | 0.7049 |
| 140 | 1.3893 | 1.2093 | 1.8832 | 2.1939 | 0.6276 | 0.7028 |
| 150 | 1.4279 | 1.2407 | 1.9611 | 2.2777 | 0.6269 | 0.7014 |
| 160 | 1.4653 | 1.2712 | 2.0370 | 2.3589 | 0.6267 | 0.7006 |
| 170 | 1.5018 | 1.3007 | 2.1111 | 2.4379 | 0.6270 | 0.7003 |
| 180 | 1.5373 | 1.3294 | 2.1834 | 2.5148 | 0.6277 | 0.7003 |
| 190 | 1.5719 | 1.3573 | 2.2542 | 2.5898 | 0.6286 | 0.7006 |
| 200 | 1.6058 | 1.3845 | 2.3236 | 2.6630 | 0.6298 | 0.7011 |
| 210 | 1.6389 | 1.4111 | 2.3916 | 2.7346 | 0.6311 | 0.7019 |
| 220 | 1.6713 | 1.4370 | 2.4583 | 2.8047 | 0.6326 | 0.7028 |
| 230 | 1.7030 | 1.4624 | 2.5239 | 2.8733 | 0.6342 | 0.7038 |
| 240 | 1.7341 | 1.4873 | 2.5881 | 2.9398 | 0.6358 | 0.7043 |
| 250 | 1.7647 | 1.5116 | 2.6514 | 3.0052 | 0.6369 | 0.7048 |
| 260 | 1.7947 | 1.5355 | 2.7136 | 3.0695 | 0.6383 | 0.7055 |
| 270 | 1.8242 | 1.5589 | 2.7750 | 3.1327 | 0.6398 | 0.7064 |
| 280 | 1.8532 | 1.5819 | 2.8354 | 3.1949 | 0.6414 | 0.7074 |
| 290 | 1.8818 | 1.6046 | 2.8950 | 3.2560 | 0.6431 | 0.7085 |

**Table 1c. Velocity Adjustment Factors,
Lake Creek Study Site 2, High Flow Deck.**

| Flow | Trans 7 | | Trans 8 | |
|------|---------|--------|---------|--------|
| | Orig | Rev | Orig | Rev |
| 35 | 0.9204 | 1.1149 | 1.2261 | 2.0551 |
| 40 | 1.0010 | 1.2078 | 1.3032 | 2.1812 |
| 45 | 1.0782 | 1.2963 | 1.3758 | 2.2994 |
| 50 | 1.1525 | 1.3810 | 1.4446 | 2.4109 |
| 55 | 1.2245 | 1.4623 | 1.5101 | 2.5168 |
| 60 | 1.2942 | 1.5407 | 1.5728 | 2.6177 |
| 65 | 1.3621 | 1.6166 | 1.6331 | 2.7145 |
| 70 | 1.4284 | 1.6897 | 1.6896 | 2.8057 |
| 80 | 1.5569 | 1.8293 | 1.7970 | 2.9780 |
| 90 | 1.6805 | 1.9608 | 1.8986 | 3.1407 |
| 100 | 1.8000 | 2.0859 | 1.9953 | 3.2949 |
| 110 | 1.9158 | 2.2054 | 2.0876 | 3.4418 |
| 120 | 2.0284 | 2.3203 | 2.1763 | 3.5825 |
| 130 | 2.1380 | 2.4310 | 2.2616 | 3.7177 |
| 140 | 2.2451 | 2.5381 | 2.3440 | 3.8481 |
| 150 | 2.3498 | 2.6420 | 2.4238 | 3.9741 |
| 160 | 2.4523 | 2.7429 | 2.5013 | 4.0962 |
| 170 | 2.5528 | 2.8411 | 2.5766 | 4.2148 |
| 180 | 2.6515 | 2.9369 | 2.6499 | 4.3301 |
| 190 | 2.7485 | 3.0304 | 2.7215 | 4.4425 |
| 200 | 2.8438 | 3.1219 | 2.7914 | 4.5521 |
| 210 | 2.9377 | 3.2114 | 2.8598 | 4.6592 |
| 220 | 3.0302 | 3.2991 | 2.9267 | 4.7640 |
| 230 | 3.1213 | 3.3851 | 2.9923 | 4.8666 |
| 240 | 3.2112 | 3.4695 | 3.0567 | 4.9671 |
| 250 | 3.2999 | 3.5525 | 3.1199 | 5.0656 |
| 260 | 3.3874 | 3.6340 | 3.1820 | 5.1624 |
| 270 | 3.4739 | 3.7142 | 3.2430 | 5.2575 |
| 280 | 3.5594 | 3.7932 | 3.3031 | 5.3509 |
| 290 | 3.6440 | 3.8708 | 3.3622 | 5.4428 |

Table 2. Changes to original data decks, Lake Creek Study Site 2, Hi Flow Deck.

| | | High Flow | | |
|-------|---------|-----------|-------------------|--------------------|
| Trans | Station | Orig | Rev | Other |
| 1 | 0.0 | | | n 2.9332 to 0.9000 |
| | 0.1 | | | n 2.9332 to 0.9000 |
| | 1.5 | | | n 2.9332 to 0.9000 |
| | 2.5 | | | n 1.5883 to 0.9000 |
| | 3.5 | | | n 1.3636 to 0.9000 |
| | 18.0 | | | n 0.0202 to 0.10 |
| | 18.5 | | | n 0.0705 to 0.05 |
| | 19.0 | | | n 0.0053 to 0.07 |
| | 19.5 | | | n 0.0053 to 0.05 |
| | 20.0 | | | n 0.053 to 0.05 |
| | 20.5 | | | n 0.0056 to 0.05 |
| | 21.0 | | | n 0.0054 to 0.04 |
| | 21.5 | | | n 0.0083 to 0.04 |
| | 22.0 | | | n 0.0177 to 0.04 |
| | 23.0 | | | n 0.0339 to 0.05 |
| | 23.5 | | | n 0.0396 to 0.05 |
| | 24.0 | | | n 0.0418 to 0.05 |
| | 26.5 | | | n 1.0011 to 0.900 |
| | 28.0 | | | n 0.018 to 0.05 |
| | 28.5 | | | n 0.0105 to 0.05 |
| | 29.0 | | | n 0.0135 to 0.05 |
| | 29.5 | | | n 0.0401 to 0.04 |
| | 30.0 | | | n 0.1663 to 0.04 |
| 31.0 | | | n 0.1090 to 0.05 | |
| 32.0 | | | n 0.0151 to 0.04 | |
| 33.0 | | | n 0.0096 to 0.04 | |
| 34.9 | | | n 0.0204 to 0.04 | |
| 35.5 | | | n 1.0011 to 0.900 | |
| 2 | 3.0 | | | n 0.02 to 0.04 |
| | 4.0 | | | n 0.02 to 0.04 |
| | 5.0 | | | n 0.02 to 0.04 |
| | 13.5 | | | n 0.0283 to 0.04 |
| | 15.5 | | | n 0.3704 to 0.06 |
| | 17.6 | | | n 0.37 to 0.15 |
| | 21.0 | | | n 0.3824 to 0.15 |

Table 2. Changes to original data decks, Lake Creek Study Site 2, Hi Flow Deck.

| | | High Flow | | |
|-------|---------|-----------|------------------|-------------------|
| Trans | Station | Orig | Rev | Other |
| 3 | 21.5 | | | n 0.6475 to 0.15 |
| | 22.0 | | | n 0.3695 to 0.15 |
| | 25.5 | | | n 1.49 to 0.10 |
| | 26.5 | | | n 1.49 to 0.10 |
| | 5.5 | | | n 0.2169 to 0.1 |
| | 6.0 | | | n 0.1689 to 0.1 |
| | 7.0 | | | n 0.2405 to 0.1 |
| | 7.5 | | | n 0.2377 to 0.1 |
| | 8.7 | | | n 0.0215 to 0.04 |
| | 10.0 | | | n 0.0359 to 0.5 |
| | 10.5 | | | n 0.0347 to 0.05 |
| | 11.5 | | | n 0.0285 to 0.045 |
| | 12.0 | | | n 0.0277 to 0.055 |
| | 12.5 | | | n 0.0261 to 0.045 |
| | 14.0 | | | n 0.0639 to 0.045 |
| | 20.0 | | | n 0.2577 to 0.1 |
| 21.0 | | | n 0.1790 to 0.09 | |
| 4 | 8.0 | | | n 0.2036 to 0.05 |
| | 11.5 | | | n 0.0387 to 0.045 |
| | 12.0 | | | n 0.0290 to 0.05 |
| | 12.5 | | | n 0.0247 to 0.45 |
| | 13.0 | | | n 0.0317 to 0.45 |
| | 15.0 | | | n 0.0331 to 0.05 |
| | 16.0 | | | n 0.4832 to 0.2 |
| | 18.5 | | | n 0.7658 to 0.2 |
| | 21.5 | | | n 0.3666 to 0.1 |
| | 22.0 | | | n 0.6497 to 0.1 |
| | 22.5 | | | n 0.6380 to 0.1 |
| | 23.0 | | | n 0.4493 to 0.1 |
| | 23.5 | | | n 0.4445 to 0.1 |
| 25.0 | | | n 0.0297 to 0.05 | |
| 25.5 | | | n 0.0486 to 0.06 | |
| 5 | 4.0 | | | n 0.4799 to 0.2 |
| | 8.0 | | | n 0.2673 to 0.1 |

Table 2. Changes to original data decks, Lake Creek Study Site 2, Hi Flow Deck.

| | | High Flow | | |
|-------|---------|-----------|-----|-------------------|
| Trans | Station | Orig | Rev | Other |
| | 11.0 | | | n 0.8197 to 0.2 |
| | 12.0 | | | n 0.0597 to 0.1 |
| | 14.0 | | | n 0.0229 to 0.06 |
| | 14.5 | | | n 0.1022 to 0.06 |
| | 15.5 | | | n 0.0547 to 0.07 |
| | 16.0 | | | n 0.0513 to 0.07 |
| | 16.5 | | | n 0.0419 to 0.07 |
| | 17.0 | | | n 0.0311 to 0.07 |
| | 19.0 | | | n 0.9 to 0.35 |
| | 19.5 | | | n 0.667 to 0.4 |
| | 20.0 | | | n 0.90 to 0.30 |
| | 20.5 | | | n 1.0227 to 0.40 |
| | 21.0 | | | n 0.4802 to 0.3 |
| | 22.0 | | | n 0.330 to 0.20 |
| | 23.0 | | | n 0.7408 to 0.1 |
| | 24.0 | | | n 0.900 to 0.1 |
| | 25.0 | | | n 2.0737 to 0.40 |
| | 26.0 | | | n 11.8535 to 0.35 |
| | 27.0 | | | n 0.4991 to 0.2 |
| 6 | 5.0 | | | n 1.2603 to 0.25 |
| | 5.5 | | | n 0.7842 to .40 |
| | 10.0 | | | n 0.0348 to 0.6 |
| | 10.5 | | | n 0.0317 to 0.06 |
| | 11.0 | | | n 0.0410 to 0.07 |
| | 14.0 | | | n 0.0378 to 0.06 |
| | 14.4 | | | n 0.0204 to 0.05 |
| | 15.0 | | | n 0.1849 to 0.05 |
| | 15.5 | | | n 0.0370 to 0.06 |
| | 15.7 | | | n 0.0373 to 0.06 |
| | 16.7 | | | n 0.0373 to 0.6 |
| | 20.0 | | | n 0.3401 to 0.15 |
| | 21.5 | | | n 0.2164 to 0.10 |
| 7 | 9.0 | | | n 0.5601 to 0.35 |
| | 10.0 | | | n 0.90 to 0.15 |
| | 11.0 | | | n 0.90 to 0.15 |

Table 2. Changes to original data decks, Lake Creek Study Site 2, Hi Flow Deck.

| | | High Flow | | |
|-------|---------|-----------|-----|--------------------|
| Trans | Station | Orig | Rev | Other |
| | 12.0 | | | n 0.90 to 0.15 |
| | 13.0 | | | n 0.90 to 0.15 |
| | 13.7 | | | n 0.90 to 0.15 |
| | 14.8 | | | n 0.90 to 0.15 |
| | 16.8 | | | n 0.90 to 0.15 |
| | 22.5 | | | n 0.0580 to 0.14 |
| | 23.0 | | | n 0.0560 to 0.14 |
| | 24.0 | | | n 0.0671 to 0.15 |
| | 24.5 | | | n 0.0634 to 0.15 |
| | 25.0 | | | n 0.0971 to 0.15 |
| | 26.0 | | | n 0.1307 to 0.18 |
| | 26.5 | | | n 0.1089 to 0.15 |
| | 30.0 | | | n 0.90 to 0.6 |
| 8 | 12.3 | | | n 0.0964 to 0.15 |
| | 12.5 | | | n 0.0940 to 0.16 |
| | 13.0 | | | n 0.0719 to 0.14 |
| | 13.5 | | | n 0.0407 to 0.170 |
| | 14.0 | | | n 0.0356 to 0.170 |
| | 14.3 | | | n 0.0439 to 0.170 |
| | 14.6 | | | n 0.0297 to 0.170 |
| | 15.0 | | | n 0.0299 to 0.170 |
| | 15.3 | | | n 0.0299 to 0.170 |
| | 23.0 | | | n 1.0013 to 0.9000 |
| | 24.0 | | | n 1.1486 to 0.9000 |
| | 25.0 | | | n 0.7635 to 0.9000 |

Table 3.1 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | | |
|---|----|-----|-------|--------|-------------|------|------|-------|-------|--------|-------|--------|-------|------|
| Transect 1 | | | | | | | | | | | | | | |
| WSE (ft) | | | | 98.40 | | | | 98.69 | | 98.80 | | 99.11 | | |
| Disch (cfs) | | | | 37.00 | | | | 92.50 | | 128.00 | | 290.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev | Orig | Rev |
| * | | 1 | 0.00 | 100.96 | | | | | | | | | | |
| * | | 2 | 0.10 | 98.40 | | | | | 0.01 | 0.07 | 0.02 | 0.10 | 0.04 | 0.24 |
| * | | 3 | 1.50 | 97.70 | 0.02 | 0.02 | 0.07 | | 0.03 | 0.15 | 0.04 | 0.19 | 0.06 | 0.37 |
| * | | 4 | 2.50 | 97.30 | 0.05 | 0.04 | 0.10 | | 0.07 | 0.19 | 0.08 | 0.24 | 0.14 | 0.44 |
| * | | 5 | 3.50 | 97.25 | 0.06 | 0.05 | 0.10 | | 0.08 | 0.19 | 0.10 | 0.25 | 0.16 | 0.45 |
| | | 6 | 4.50 | 97.25 | 0.15 | 0.13 | 0.17 | | 0.21 | 0.32 | 0.25 | 0.40 | 0.41 | 0.74 |
| | | 7 | 5.50 | 97.00 | 0.08 | 0.07 | 0.11 | | 0.11 | 0.22 | 0.13 | 0.27 | 0.21 | 0.49 |
| | | 8 | 6.50 | 96.90 | 0.40 | 0.35 | 0.44 | | 0.54 | 0.83 | 0.65 | 1.03 | 1.03 | 1.84 |
| | | 9 | 7.50 | 96.75 | 0.73 | 0.64 | 0.81 | | 0.98 | 1.49 | 1.16 | 1.86 | 1.84 | 3.30 |
| | | 10 | 8.50 | 96.60 | 1.41 | 1.24 | 1.56 | | 1.88 | 2.86 | 2.22 | 3.56 | 3.50 | 6.27 |
| | | 11 | 9.50 | 97.10 | 1.73 | 1.51 | 0.69 | * | 2.39 | 1.31 | 2.85 | 1.65 | 4.61 | 2.97 |
| | | 12 | 10.50 | 96.95 | 0.67 | 0.59 | 0.74 | | 0.92 | 1.39 | 1.09 | 1.74 | 1.74 | 3.11 |
| | | 13 | 11.50 | 96.80 | 0.35 | 0.31 | 0.39 | | 0.47 | 0.72 | 0.56 | 0.90 | 0.89 | 1.59 |
| | | 14 | 12.50 | 96.70 | 0.87 | 0.76 | 0.96 | | 1.17 | 1.77 | 1.38 | 2.21 | 2.19 | 3.91 |
| | | 15 | 13.50 | 96.60 | 1.42 | 1.24 | 1.57 | | 1.90 | 2.88 | 2.24 | 3.59 | 3.53 | 6.31 |
| | | 16 | 14.50 | 96.95 | 1.76 | 1.54 | 1.95 | | 2.40 | 3.65 | 2.85 | 4.58 | 4.57 | 8.18 |
| | | 17 | 15.50 | 96.30 | 1.89 | 1.66 | 2.10 | | 2.49 | 3.78 | 2.92 | 4.69 | 4.57 | 8.17 |
| | | 18 | 16.50 | 97.20 | 1.39 | 1.21 | 1.53 | | 1.94 | 2.95 | 2.32 | 3.72 | 3.77 | 6.75 |
| | | 19 | 17.50 | 97.40 | 1.58 | 1.38 | 1.74 | | 2.26 | 3.44 | 2.73 | 4.37 | 4.50 | 8.06 |
| * | | 20 | 18.00 | 97.55 | 3.30 | 2.87 | 0.73 | * | 4.85 | 1.49 | 5.89 | 1.91 | 9.86 | 3.57 |
| * | | 21 | 18.50 | 97.60 | 0.91 | 0.79 | 1.41 | * | 1.35 | 2.89 | 1.64 | 3.72 | 2.77 | 7.00 |
| * | | 22 | 19.00 | 98.35 | 3.00 | 1.95 | 0.11 | * | 13.03 | 0.94 | 18.05 | 1.38 | 36.96 | 3.17 |
| * | | 23 | 19.50 | 98.35 | 3.00 | 1.95 | 0.16 | * | 13.03 | 1.32 | 18.05 | 1.93 | 36.96 | 4.44 |
| * | | 24 | 20.00 | 98.35 | 3.02 | 1.96 | 0.16 | * | 13.12 | 1.32 | 18.17 | 1.93 | 37.20 | 4.44 |
| * | | 25 | 20.50 | 98.30 | 2.84 | 2.19 | 0.31 | * | 8.51 | 1.45 | 11.52 | 2.07 | 22.95 | 4.63 |
| * | | 26 | 21.00 | 98.30 | 2.94 | 2.26 | 0.38 | * | 8.81 | 1.81 | 11.93 | 2.59 | 23.75 | 5.78 |
| * | | 27 | 21.50 | 98.15 | 3.53 | 2.96 | 0.78 | * | 7.13 | 2.25 | 9.23 | 3.09 | 17.29 | 6.47 |
| * | | 28 | 22.00 | 97.60 | 3.63 | 3.15 | 1.76 | * | 5.40 | 3.62 | 6.56 | 4.65 | 11.05 | 8.75 |
| * | | 29 | 22.50 | 96.60 | 1.49 | 1.31 | 1.65 | | 1.99 | 3.02 | 2.35 | 3.76 | 3.70 | 6.62 |
| * | | 30 | 23.00 | 97.10 | 2.62 | 2.29 | 1.96 | * | 3.62 | 3.73 | 4.32 | 4.70 | 6.97 | 8.46 |
| * | | 31 | 23.50 | 97.05 | 2.30 | 2.01 | 2.01 | | 3.17 | 3.81 | 3.77 | 4.79 | 6.07 | 8.60 |
| * | | 32 | 24.00 | 97.05 | 2.18 | 1.91 | 2.01 | | 3.00 | 3.81 | 3.57 | 4.79 | 5.75 | 8.60 |
| | | 33 | 24.50 | 96.90 | 1.30 | 1.14 | 1.44 | | 1.77 | 2.69 | 2.10 | 3.36 | 3.35 | 6.00 |
| | | 34 | 25.00 | 97.10 | 1.65 | 1.44 | 1.46 | | 2.28 | 2.77 | 2.72 | 3.49 | 4.39 | 6.29 |
| | | 35 | 25.50 | 97.40 | 0.51 | 0.44 | 0.56 | | 0.73 | 1.11 | 0.88 | 1.41 | 1.45 | 2.60 |
| | | 36 | 26.00 | 98.10 | 0.04 | 0.03 | 0.04 | | 0.08 | 0.12 | 0.10 | 0.16 | 0.18 | 0.32 |
| * | | 37 | 26.50 | 98.35 | 0.01 | 0.01 | 0.01 | | 0.04 | 0.07 | 0.06 | 0.11 | 0.12 | 0.25 |
| | | 38 | 27.00 | 98.40 | | | | | 1.21 | 1.83 | 1.72 | 2.76 | 3.64 | 6.56 |
| | | 39 | 27.50 | 98.15 | 0.91 | 0.76 | 0.96 | | 1.84 | 2.79 | 2.38 | 3.82 | 4.46 | 8.01 |
| * | | 40 | 28.00 | 98.38 | 0.50 | 0.08 | 0.01 | * | 3.77 | 1.24 | 5.31 | 1.85 | 11.08 | 4.32 |
| * | | 41 | 28.50 | 98.15 | 2.81 | 2.36 | 0.62 | * | 5.68 | 1.80 | 7.35 | 2.47 | 13.77 | 5.18 |
| * | | 42 | 29.00 | 98.10 | 2.46 | 2.08 | 0.71 | * | 4.67 | 1.91 | 5.98 | 2.60 | 11.04 | 5.36 |
| * | | 43 | 29.50 | 98.10 | 0.83 | 0.70 | 0.89 | | 1.57 | 2.39 | 2.02 | 3.24 | 3.72 | 6.69 |
| * | | 44 | 30.00 | 98.10 | 0.20 | 0.17 | 0.89 | * | 0.38 | 2.39 | 0.49 | 3.24 | 0.90 | 6.69 |
| * | | 45 | 31.00 | 98.15 | 0.27 | 0.23 | 0.62 | * | 0.55 | 1.80 | 0.71 | 2.47 | 1.32 | 5.18 |
| * | | 46 | 32.00 | 98.05 | 2.81 | 2.39 | 0.99 | * | 5.08 | 2.53 | 6.45 | 3.40 | 11.74 | 6.91 |
| * | | 47 | 33.00 | 98.15 | 3.07 | 2.57 | 0.78 | * | 6.20 | 2.25 | 8.03 | 3.09 | 15.04 | 6.47 |
| | | 48 | 34.00 | 95.40 | 2.29 | 2.01 | 2.54 | | 2.95 | 4.47 | 3.43 | 5.50 | 5.25 | 9.38 |
| * | | 49 | 34.85 | 98.30 | 0.78 | 0.60 | 0.38 | * | 2.34 | 1.81 | 3.16 | 2.59 | 6.30 | 5.78 |
| * | | 50 | 35.50 | 98.35 | 0.01 | 0.01 | 0.01 | | 0.04 | 0.07 | 0.06 | 0.11 | 0.12 | 0.25 |
| | | 51 | 36.00 | 98.35 | 0.05 | 0.03 | 0.04 | | 0.22 | 0.33 | 0.30 | 0.48 | 0.62 | 1.11 |
| | | 52 | 36.20 | 98.40 | | | | | 0.20 | 0.30 | 0.28 | 0.45 | 0.59 | 1.06 |
| | | 53 | 37.60 | 98.36 | | 0.03 | 0.03 | | 0.21 | 0.32 | 0.30 | 0.48 | 0.61 | 1.10 |
| | | 54 | 40.90 | 98.50 | | | | | 0.15 | 0.22 | 0.23 | 0.37 | 0.53 | 0.96 |
| | | 55 | 41.20 | 98.80 | | | | | | | 0.01 | 0.02 | 0.34 | 0.62 |
| | | 56 | 44.20 | 100.57 | | | | | | | | | | |
| | | 57 | 44.30 | 100.67 | | | | | | | | | | |

Total 6 * 19 *

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.2 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | | |
|---|----|-------|--------|-------------|------|-------|------|--------|------|--------|------|------|-------|------|
| Transect 2 | | | | | | | | | | | | | | |
| WSE (ft) | | | | 97.88 | | 98.45 | | 98.68 | | 99.35 | | | | |
| Disch (cfs) | | | | 37.00 | | 92.50 | | 128.00 | | 290.00 | | | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev | Orig | Rev |
| | 1 | 0.00 | 101.02 | | | | | | | | | | | |
| | 2 | 0.10 | 97.82 | | 0.08 | | 0.07 | | 0.51 | 0.48 | 0.70 | 0.66 | 1.37 | 1.34 |
| | 3 | 1.50 | 97.42 | 0.29 | 0.32 | | 0.28 | | 0.71 | 0.66 | 0.90 | 0.85 | 1.60 | 1.57 |
| * | 4 | 3.00 | 98.05 | | | | | | 2.64 | 1.22 | 3.97 | 1.87 | 8.56 | 4.19 |
| * | 5 | 4.00 | 98.14 | | | | | | 2.23 | 1.03 | 3.58 | 1.69 | 8.16 | 3.99 |
| * | 6 | 5.00 | 97.62 | 1.27 | 1.52 | | 0.68 | * | 4.30 | 1.99 | 5.61 | 2.64 | 10.36 | 5.08 |
| | 7 | 6.00 | 96.72 | 1.83 | 1.91 | | 1.69 | | 3.23 | 3.00 | 3.89 | 3.67 | 6.31 | 6.19 |
| | 8 | 7.00 | 96.52 | 0.72 | 0.75 | | 0.66 | | 1.22 | 1.14 | 1.46 | 1.38 | 2.33 | 2.29 |
| | 9 | 8.00 | 96.42 | 1.18 | 1.22 | | 1.08 | | 1.97 | 1.83 | 2.35 | 2.22 | 3.72 | 3.65 |
| | 10 | 8.50 | 96.42 | 1.31 | 1.35 | | 1.20 | | 2.19 | 2.03 | 2.60 | 2.46 | 4.13 | 4.06 |
| | 11 | 9.00 | 96.22 | 0.85 | 0.88 | | 0.78 | | 1.39 | 1.29 | 1.64 | 1.55 | 2.56 | 2.52 |
| | 12 | 9.50 | 96.22 | 1.30 | 1.34 | | 1.19 | | 2.12 | 1.97 | 2.50 | 2.36 | 3.92 | 3.85 |
| | 13 | 10.00 | 96.12 | 1.13 | 1.16 | | 1.03 | | 1.82 | 1.69 | 2.14 | 2.03 | 3.34 | 3.28 |
| | 14 | 10.50 | 96.92 | 2.04 | 2.14 | | 1.90 | | 3.80 | 3.52 | 4.61 | 4.36 | 7.63 | 7.49 |
| | 15 | 11.50 | 97.22 | 1.83 | 1.96 | | 1.74 | | 3.86 | 3.58 | 4.79 | 4.53 | 8.22 | 8.07 |
| | 16 | 12.20 | 96.22 | 1.04 | 1.07 | | 0.95 | | 1.69 | 1.57 | 2.00 | 1.89 | 3.13 | 3.08 |
| | 17 | 13.00 | 96.22 | 2.41 | 2.48 | | 2.21 | | 3.93 | 3.64 | 4.64 | 4.38 | 7.26 | 7.13 |
| * | 18 | 13.50 | 96.62 | 2.97 | 3.09 | | 1.94 | * | 5.14 | 3.38 | 6.15 | 4.12 | 9.90 | 6.89 |
| | 19 | 14.00 | 96.82 | 1.41 | 1.47 | | 1.31 | | 2.55 | 2.37 | 3.08 | 2.91 | 5.05 | 4.96 |
| * | 20 | 15.50 | 95.82 | 0.32 | 0.33 | | 1.80 | * | 0.50 | 2.87 | 0.59 | 3.42 | 0.90 | 5.46 |
| | 21 | 16.00 | 96.22 | 1.12 | 1.15 | | 1.03 | | 1.83 | 1.69 | 2.16 | 2.04 | 3.38 | 3.31 |
| | 22 | 16.50 | 96.52 | 1.23 | 1.27 | | 1.13 | | 2.09 | 1.94 | 2.49 | 2.36 | 3.98 | 3.91 |
| | 23 | 17.00 | 96.47 | 1.48 | 1.53 | | 1.36 | | 2.50 | 2.32 | 2.97 | 2.81 | 4.73 | 4.64 |
| | 24 | 17.50 | 96.47 | 1.13 | 1.17 | | 1.04 | | 1.91 | 1.77 | 2.27 | 2.14 | 3.61 | 3.54 |
| * | 25 | 17.60 | 95.52 | 0.35 | 0.36 | | 0.79 | * | 0.54 | 1.24 | 0.62 | 1.46 | 0.95 | 2.31 |
| | 26 | 18.00 | 95.47 | 0.75 | 0.77 | | 0.68 | | 1.15 | 1.06 | 1.33 | 1.26 | 2.02 | 1.98 |
| | 27 | 18.50 | 95.37 | 0.72 | 0.74 | | 0.65 | | 1.09 | 1.02 | 1.27 | 1.20 | 1.92 | 1.88 |
| | 28 | 19.00 | 95.37 | 0.75 | 0.77 | | 0.68 | | 1.14 | 1.06 | 1.32 | 1.25 | 2.00 | 1.96 |
| | 29 | 19.50 | 95.77 | 0.80 | 0.82 | | 0.73 | | 1.25 | 1.16 | 1.46 | 1.38 | 2.23 | 2.19 |
| | 30 | 20.00 | 95.82 | 0.85 | 0.87 | | 0.77 | | 1.33 | 1.24 | 1.56 | 1.47 | 2.39 | 2.35 |
| | 31 | 20.60 | 95.82 | 0.61 | 0.63 | | 0.56 | | 0.96 | 0.89 | 1.12 | 1.06 | 1.72 | 1.68 |
| * | 32 | 21.00 | 95.82 | 0.31 | 0.32 | | 0.72 | * | 0.49 | 1.15 | 0.57 | 1.37 | 0.87 | 2.18 |
| * | 33 | 21.50 | 95.87 | 0.18 | 0.18 | | 0.71 | * | 0.28 | 1.13 | 0.33 | 1.35 | 0.51 | 2.16 |
| * | 34 | 22.00 | 95.92 | 0.31 | 0.32 | | 0.70 | * | 0.49 | 1.12 | 0.57 | 1.34 | 0.89 | 2.14 |
| | 35 | 22.50 | 96.02 | 0.80 | 0.82 | | 0.73 | | 1.28 | 1.18 | 1.50 | 1.42 | 2.32 | 2.28 |
| | 36 | 23.00 | 96.02 | 0.75 | 0.77 | | 0.68 | | 1.20 | 1.11 | 1.41 | 1.33 | 2.18 | 2.14 |
| | 37 | 23.50 | 96.02 | 1.38 | 1.42 | | 1.26 | | 2.20 | 2.04 | 2.59 | 2.44 | 4.01 | 3.93 |
| | 38 | 24.00 | 96.42 | 2.05 | 2.12 | | 1.88 | | 3.43 | 3.18 | 4.08 | 3.85 | 6.46 | 6.35 |
| | 39 | 24.50 | 96.32 | 1.82 | 1.88 | | 1.33 | * | 3.00 | 2.22 | 3.56 | 2.68 | 5.60 | 4.38 |
| * | 40 | 25.50 | 96.82 | 0.05 | 0.05 | | 0.69 | * | 0.09 | 1.25 | 0.11 | 1.54 | 0.18 | 2.62 |
| * | 41 | 26.50 | 97.02 | | 0.05 | | 0.60 | * | 0.08 | 1.15 | 0.10 | 1.43 | 0.17 | 2.48 |
| | 42 | 27.30 | 97.32 | 0.80 | 0.87 | | 0.77 | | 1.80 | 1.67 | 2.26 | 2.13 | 3.93 | 3.86 |
| | 43 | 29.45 | 97.82 | | 0.20 | | 0.17 | | 1.22 | 1.13 | 1.66 | 1.57 | 3.25 | 3.19 |
| | 44 | 30.50 | 99.72 | | | | | | | | | | | |
| | 45 | 33.39 | 100.48 | | | | | | | | | | | |
| | 46 | 33.42 | 100.52 | | | | | | | | | | | |
| Total | | | | | 0 * | | 10 * | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.3 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | | |
|---|----|-------|--------|--------------|-------|---|------|-------|-------|-------|-------|--------|-------|------|
| Transect 3 | | | | | | | | | | | | | | |
| WSE (ft) | | | | 97.87 | | | | 98.45 | | 98.69 | | 99.36 | | |
| Disch (cfs) | | | | 37.00 | | | | 92.5 | | 128 | | 290.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev | Orig | Rev |
| | 1 | 0.00 | 99.35 | | | | | | | | | | 0.02 | 0.07 |
| | 2 | 0.10 | 99.26 | | | | | | | | | | 0.12 | 0.14 |
| | 3 | 2.60 | 97.80 | | 0.04 | | 0.03 | | 0.25 | 0.22 | 0.36 | 0.32 | 0.80 | 0.68 |
| | 4 | 3.50 | 97.90 | | | | | | 0.23 | 0.20 | 0.33 | 0.29 | 0.77 | 0.65 |
| | 5 | 4.40 | 97.00 | 0.24 | 0.20 | | 0.18 | | 0.43 | 0.38 | 0.56 | 0.48 | 1.06 | 0.89 |
| | 6 | 5.00 | 97.60 | 0.00 | -0.15 | | 0.21 | * | -0.48 | 0.70 | -0.66 | 0.96 | -1.37 | 1.97 |
| * | 7 | 5.50 | 97.45 | 0.00 | -0.20 | | 0.29 | * | -0.53 | 0.79 | -0.72 | 1.05 | -1.45 | 2.08 |
| * | 8 | 6.00 | 97.60 | -0.15 | -0.15 | | 0.21 | | -0.48 | 0.70 | -0.66 | 0.96 | -1.37 | 1.97 |
| | 9 | 6.50 | 96.90 | 0.00 | -0.12 | | 0.60 | * | -0.25 | 1.21 | -0.32 | 1.55 | -0.60 | 2.83 |
| * | 10 | 7.00 | 97.20 | -0.11 | -0.09 | | 0.40 | * | -0.22 | 0.91 | -0.28 | 1.19 | -0.55 | 2.25 |
| * | 11 | 7.50 | 97.25 | -0.09 | -0.08 | | 0.38 | * | -0.18 | 0.89 | -0.24 | 1.16 | -0.47 | 2.22 |
| | 12 | 8.00 | 97.20 | -0.02 | -0.02 | | 0.45 | * | -0.04 | 1.03 | -0.05 | 1.35 | -0.10 | 2.56 |
| * | 13 | 8.70 | 97.60 | 0.18 | 0.17 | | 0.53 | * | 0.57 | 1.76 | 0.79 | 2.41 | 1.65 | 4.93 |
| | 14 | 9.00 | 97.60 | 0.08 | 0.08 | | 0.64 | * | 0.25 | 2.14 | 0.35 | 2.93 | 0.73 | 5.99 |
| | 15 | 9.50 | 95.90 | 0.77 | 0.62 | | 0.80 | | 1.13 | 1.41 | 1.40 | 1.74 | 2.46 | 2.95 |
| * | 16 | 10.00 | 96.00 | 3.08 | 2.49 | | 1.61 | * | 4.55 | 2.86 | 5.68 | 3.53 | 9.99 | 6.03 |
| * | 17 | 10.50 | 96.20 | 2.94 | 2.38 | | 1.50 | * | 4.44 | 2.70 | 5.57 | 3.35 | 9.90 | 5.79 |
| | 18 | 11.00 | 96.00 | 1.46 | 1.18 | | 1.07 | * | 2.16 | 1.89 | 2.69 | 2.33 | 4.74 | 3.98 |
| * | 19 | 11.50 | 96.70 | 2.22 | 1.82 | | 1.30 | * | 3.65 | 2.54 | 4.65 | 3.20 | 8.56 | 5.74 |
| * | 20 | 12.00 | 96.80 | 4.10 | 3.38 | | 1.00 | * | 6.90 | 2.00 | 8.84 | 2.53 | 16.43 | 4.58 |
| * | 21 | 12.50 | 96.85 | 2.76 | 2.28 | | 1.19 | * | 4.71 | 2.39 | 6.05 | 3.04 | 11.30 | 5.53 |
| | 22 | 13.00 | 96.85 | 1.66 | 1.37 | | 1.23 | * | 2.83 | 2.48 | 3.64 | 3.16 | 6.79 | 5.74 |
| | 23 | 13.50 | 96.80 | 2.18 | 1.80 | | 1.62 | * | 3.67 | 3.21 | 4.70 | 4.08 | 8.74 | 7.37 |
| * | 24 | 14.00 | 96.50 | 1.39 | 1.13 | | 1.45 | | 2.19 | 2.73 | 2.78 | 3.42 | 5.03 | 6.02 |
| | 25 | 14.50 | 96.40 | 2.38 | 1.94 | | 1.75 | * | 3.70 | 3.24 | 4.66 | 4.04 | 8.39 | 7.07 |
| | 26 | 16.00 | 95.40 | 1.21 | 0.97 | | 0.88 | * | 1.71 | 1.50 | 2.11 | 1.82 | 3.61 | 3.04 |
| | 27 | 17.00 | 95.20 | 1.17 | 0.93 | * | 0.87 | * | 1.63 | 1.47 | 2.00 | 1.78 | 3.41 | 2.95 |
| | 28 | 18.00 | 95.70 | 3.00 | 2.41 | | 2.19 | * | 4.32 | 3.79 | 5.35 | 4.64 | 9.29 | 7.81 |
| | 29 | 19.00 | 95.80 | 0.14 | 0.11 | | 0.90 | * | 0.20 | 1.57 | 0.25 | 1.93 | 0.44 | 3.26 |
| * | 30 | 20.00 | 95.80 | 0.39 | 0.31 | | 0.86 | * | 0.57 | 1.51 | 0.70 | 1.85 | 1.23 | 3.13 |
| * | 31 | 21.00 | 95.90 | 0.59 | 0.48 | | 0.93 | * | 0.86 | 1.63 | 1.07 | 2.01 | 1.88 | 3.42 |
| | 32 | 22.00 | 96.00 | 1.04 | 0.84 | | 0.76 | * | 1.54 | 1.35 | 1.92 | 1.66 | 3.37 | 2.84 |
| | 33 | 23.00 | 96.00 | 1.22 | 0.98 | | 0.89 | * | 1.80 | 1.58 | 2.25 | 1.95 | 3.96 | 3.33 |
| | 34 | 24.00 | 95.80 | 0.32 | 0.26 | | 0.31 | | 0.46 | 0.53 | 0.58 | 0.66 | 1.01 | 1.11 |
| | 35 | 25.00 | 95.80 | 1.10 | 0.89 | | 0.80 | * | 1.60 | 1.40 | 1.98 | 1.72 | 3.46 | 2.91 |
| | 36 | 26.00 | 95.85 | 0.55 | 0.44 | | 0.69 | | 0.80 | 1.20 | 1.00 | 1.48 | 1.74 | 2.50 |
| | 37 | 27.00 | 96.20 | 0.42 | 0.34 | | 0.64 | * | 0.63 | 1.17 | 0.80 | 1.44 | 1.41 | 2.50 |
| | 38 | 28.00 | 96.30 | 0.39 | 0.32 | | 0.35 | | 0.60 | 0.64 | 0.75 | 0.80 | 1.34 | 1.39 |
| | 39 | 29.00 | 96.35 | 0.88 | 0.71 | | 0.65 | * | 1.36 | 1.19 | 1.71 | 1.48 | 3.06 | 2.58 |
| | 40 | 29.90 | 97.80 | | 0.09 | | 0.07 | | 0.62 | 0.54 | 0.89 | 0.78 | 1.97 | 1.68 |
| | 41 | 31.30 | 99.98 | | | | | | | | | | | |
| | 42 | 31.40 | 100.06 | | | | | | | | | | | |
| Total | | | | | 1 * | | 28 * | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.4 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | |
|---|-------|-------|------|-------------|------|--------|------|--------|------|------|------|------|
| Transect 4 | | | | | | | | | | | | |
| WSE (ft) | | 97.28 | | 97.91 | | 98.16 | | 98.90 | | | | |
| Disch (cfs) | | 37.00 | | 92.50 | | 128.00 | | 290.00 | | | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev |
| 1 | 0.00 | 99.23 | | | | | | | | | | |
| 2 | 0.10 | 99.13 | | | | | | | | | | |
| 3 | 2.60 | 97.56 | | | | | | | | | | |
| 4 | 4.00 | 97.26 | | | 0.03 | | 0.02 | | 0.21 | 0.21 | 0.35 | 0.35 |
| 5 | 5.00 | 95.26 | | 0.00 | 0.52 | * | 0.52 | * | 0.32 | 0.33 | 0.46 | 0.46 |
| 6 | 5.50 | 95.26 | | 0.00 | 0.52 | * | 0.52 | * | 0.83 | 0.84 | 1.00 | 1.01 |
| 7 | 6.00 | 95.76 | | 0.00 | 0.43 | * | 0.43 | * | 0.83 | 0.84 | 1.00 | 1.01 |
| 8 | 6.50 | 97.06 | | 0.00 | 0.12 | | 0.12 | | 0.72 | 0.73 | 0.88 | 0.89 |
| 9 | 7.00 | 97.06 | | 0.00 | 0.12 | | 0.12 | | 0.39 | 0.39 | 0.52 | 0.53 |
| 10 | 8.00 | 96.76 | | 0.23 | 0.21 | | 0.21 | | 0.39 | 0.39 | 0.52 | 0.53 |
| 11 | 9.00 | 96.76 | | 0.64 | 0.58 | | 0.58 | | 0.48 | 0.48 | 0.62 | 0.62 |
| 12 | 10.00 | 96.46 | | 0.79 | 0.71 | | 0.71 | | 1.32 | 1.33 | 1.71 | 1.72 |
| 13 | 11.00 | 96.36 | | 1.52 | 1.36 | | 1.15 | * | 1.39 | 1.40 | 1.76 | 1.77 |
| 14 | 11.50 | 96.16 | | 2.05 | 1.83 | | 1.84 | | 2.59 | 2.20 | 3.25 | 2.75 |
| 15 | 12.00 | 96.46 | | 2.21 | 1.98 | | 1.99 | | 3.32 | 3.34 | 4.11 | 4.13 |
| 16 | 12.50 | 96.46 | | 2.60 | 2.33 | | 2.34 | | 3.90 | 3.92 | 4.92 | 4.94 |
| 17 | 13.00 | 96.36 | | 2.19 | 1.96 | | 1.97 | | 4.59 | 4.62 | 5.78 | 5.81 |
| 18 | 14.00 | 96.26 | | 1.79 | 1.60 | | 1.61 | | 3.74 | 3.76 | 4.68 | 4.70 |
| 19 | 15.00 | 96.16 | | 2.40 | 2.14 | | 2.15 | | 2.97 | 2.99 | 3.69 | 3.71 |
| 20 | 16.00 | 95.56 | | 0.22 | 0.20 | | 0.20 | | 3.88 | 3.91 | 4.81 | 4.83 |
| 21 | 17.00 | 94.86 | | 1.46 | 1.29 | | 1.30 | | 0.32 | 0.33 | 0.39 | 0.39 |
| 22 | 17.50 | 94.96 | | 1.97 | 1.74 | | 1.75 | | 2.03 | 2.05 | 2.43 | 2.44 |
| 23 | 18.00 | 94.66 | | 1.53 | 1.35 | | 1.36 | | 2.76 | 2.78 | 3.30 | 3.32 |
| 24 | 18.50 | 95.06 | | 0.17 | 0.15 | | 0.15 | | 2.11 | 2.12 | 2.51 | 2.52 |
| 25 | 19.00 | 95.16 | | 0.71 | 0.63 | | 0.63 | | 0.23 | 0.23 | 0.28 | 0.28 |
| 26 | 19.50 | 95.56 | | 1.22 | 1.08 | | 1.09 | | 1.01 | 1.02 | 1.21 | 1.22 |
| 27 | 20.00 | 96.06 | | 0.44 | 0.39 | | 0.39 | | 1.80 | 1.81 | 2.18 | 2.19 |
| 28 | 20.50 | 95.26 | | 0.61 | 0.54 | | 0.54 | | 0.70 | 0.70 | 0.86 | 0.86 |
| 29 | 21.00 | 95.86 | | 0.84 | 0.75 | | 0.75 | | 0.87 | 0.88 | 1.05 | 1.06 |
| 30 | 21.50 | 95.56 | | 0.29 | 0.26 | | 0.26 | | 1.29 | 1.29 | 1.57 | 1.58 |
| 31 | 22.00 | 95.46 | | 0.17 | 0.15 | | 0.15 | | 0.43 | 0.43 | 0.52 | 0.52 |
| 32 | 22.50 | 95.66 | | 0.16 | 0.14 | | 0.14 | | 0.25 | 0.25 | 0.30 | 0.30 |
| 33 | 23.00 | 95.76 | | 0.22 | 0.20 | | 0.20 | | 0.24 | 0.24 | 0.29 | 0.29 |
| 34 | 23.50 | 95.86 | | 0.21 | 0.19 | | 0.19 | | 0.33 | 0.33 | 0.40 | 0.41 |
| 35 | 24.00 | 96.36 | | 0.31 | 0.28 | | 0.28 | | 0.32 | 0.32 | 0.39 | 0.40 |
| 36 | 24.50 | 95.76 | | 2.16 | 1.92 | | 1.93 | | 0.53 | 0.53 | 0.66 | 0.67 |
| 37 | 25.00 | 95.56 | | 3.58 | 3.18 | | 3.20 | | 3.26 | 3.28 | 3.97 | 3.99 |
| 38 | 25.50 | 94.96 | | 2.68 | 2.37 | | 2.39 | | 5.27 | 5.31 | 6.39 | 6.42 |
| 39 | 26.00 | 95.26 | | 1.10 | 0.98 | | 0.98 | | 3.75 | 3.78 | 4.49 | 4.51 |
| 40 | 26.50 | 95.86 | | 1.11 | 0.99 | | 0.99 | | 1.57 | 1.59 | 1.89 | 1.90 |
| 41 | 27.00 | 95.66 | | 1.15 | 1.02 | | 1.03 | | 1.70 | 1.71 | 2.08 | 2.09 |
| 42 | 27.50 | 95.66 | | 1.15 | 1.02 | | 1.03 | | 1.71 | 1.72 | 2.08 | 2.09 |
| 43 | 28.00 | 95.46 | | 1.13 | 1.00 | | 1.01 | | 1.71 | 1.72 | 2.08 | 2.09 |
| 44 | 28.50 | 95.16 | | 0.34 | 0.30 | | 0.30 | | 1.65 | 1.66 | 1.99 | 2.00 |
| 45 | 29.00 | 95.36 | | 0.79 | 0.70 | | 0.70 | | 0.48 | 0.49 | 0.58 | 0.58 |
| 46 | 30.00 | 95.46 | | 0.62 | 0.55 | | 0.55 | | 1.14 | 1.15 | 1.37 | 1.38 |
| 47 | 31.00 | 95.76 | | 0.52 | 0.46 | | 0.46 | | 0.90 | 0.91 | 1.09 | 1.10 |
| 48 | 32.00 | 95.96 | | 0.45 | 0.40 | | 0.40 | | 0.78 | 0.79 | 0.96 | 0.96 |
| 49 | 33.00 | 96.36 | | 0.23 | 0.21 | | 0.21 | | 0.70 | 0.70 | 0.86 | 0.86 |
| 50 | 34.00 | 96.66 | | 0.23 | 0.21 | | 0.21 | | 0.39 | 0.39 | 0.49 | 0.49 |
| 51 | 34.80 | 96.76 | | 0.24 | 0.22 | | 0.22 | | 0.45 | 0.45 | 0.57 | 0.57 |
| 52 | 35.00 | 96.96 | | 0.02 | 0.02 | | 0.02 | | 0.50 | 0.50 | 0.64 | 0.65 |
| 53 | 36.20 | 97.26 | | | 0.00 | | 0.00 | | 0.05 | 0.05 | 0.07 | 0.07 |
| 54 | 36.35 | 97.64 | | | | | | | 0.04 | 0.04 | 0.06 | 0.06 |
| 55 | 41.10 | 99.07 | | | | | | | 0.02 | 0.02 | 0.04 | 0.04 |
| 56 | 41.18 | 99.16 | | | | | | | | | | |

Total 3 * 4 *

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20

Table 3.5 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | |
|---|----|-------|-------|-------------|------|-------|------|--------|------|--------|------|-------|------|
| Transect 5 | | | | | | | | | | | | | |
| WSE (ft) | | | | 97.31 | | 97.89 | | 98.13 | | 98.78 | | | |
| Disch (cfs) | | | | 37.00 | | 92.50 | | 128.00 | | 290.00 | | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | Orig | Rev | Orig | Rev | Orig | Rev |
| | 1 | 0.00 | 99.23 | | | | | | | | | | |
| | 2 | 0.10 | 99.06 | | | | | | | | | | |
| | 3 | 3.30 | 98.83 | | | | | | | | | | |
| | 4 | 3.40 | 97.27 | | | | | | | | | | |
| * | 5 | 4.00 | 96.32 | 0.15 | 0.02 | | 0.05 | 0.17 | 0.48 | 0.25 | 0.70 | 0.59 | 1.61 |
| | 6 | 5.00 | 98.98 | | 0.13 | | 0.39 | 0.31 | 0.88 | 0.41 | 1.16 | 0.82 | 2.23 |
| | 7 | 6.00 | 97.49 | | | | | 0.22 | 0.71 | 0.37 | 1.15 | 0.96 | 2.90 |
| | 8 | 7.00 | 97.35 | | | | | 0.27 | 0.87 | 0.42 | 1.32 | 1.03 | 3.10 |
| * | 9 | 8.00 | 96.42 | 0.25 | 0.23 | | 0.73 | 0.53 | 1.69 | 0.71 | 2.23 | 1.44 | 4.33 |
| | 10 | 9.00 | 99.40 | | | | | | | | | | |
| | 11 | 10.00 | 99.62 | | | | | | | | | | |
| * | 12 | 11.00 | 95.47 | 0.13 | 0.12 | | 0.60 | 0.23 | 1.18 | 0.30 | 1.50 | 0.57 | 2.71 |
| * | 13 | 12.00 | 94.92 | 2.28 | 2.01 | | 1.42 | 3.95 | 2.71 | 5.02 | 3.40 | 9.21 | 6.01 |
| | 14 | 12.50 | 94.87 | 1.31 | 1.15 | | 1.41 | 2.26 | 2.68 | 2.87 | 3.36 | 5.26 | 5.93 |
| | 15 | 13.00 | 94.77 | 0.99 | 0.87 | | 1.07 | 1.70 | 2.01 | 2.16 | 2.52 | 3.94 | 4.44 |
| | 16 | 13.50 | 94.42 | 0.80 | 0.70 | | 0.86 | 1.35 | 1.60 | 1.70 | 1.99 | 3.08 | 3.47 |
| * | 17 | 14.00 | 95.17 | 5.34 | 4.71 | | 2.20 | 9.40 | 4.26 | 12.00 | 5.37 | 22.24 | 9.58 |
| * | 18 | 14.50 | 95.27 | 5.39 | 4.76 | | 2.13 | 9.56 | 4.15 | 12.23 | 5.24 | 22.77 | 9.40 |
| | 19 | 15.00 | 94.72 | 1.73 | 1.52 | | 1.86 | 2.96 | 3.51 | 3.75 | 4.39 | 6.84 | 7.71 |
| * | 20 | 15.50 | 94.67 | 2.59 | 2.28 | | 2.17 | 4.41 | 4.08 | 5.59 | 5.11 | 10.18 | 8.96 |
| * | 21 | 16.00 | 94.77 | 2.69 | 2.37 | | 2.12 | 4.61 | 4.00 | 5.85 | 5.01 | 10.68 | 8.81 |
| * | 22 | 16.50 | 94.72 | 3.33 | 2.93 | | 2.14 | 5.70 | 4.04 | 7.22 | 5.06 | 13.18 | 8.88 |
| * | 23 | 17.00 | 95.37 | 3.68 | 3.25 | | 1.77 | 6.58 | 3.47 | 8.44 | 4.39 | 15.78 | 7.91 |
| | 24 | 17.50 | 95.27 | 1.53 | 1.35 | | 1.65 | 2.71 | 3.21 | 3.47 | 4.06 | 6.46 | 7.28 |
| | 25 | 18.00 | 95.07 | 0.56 | 0.49 | | 0.60 | 0.98 | 1.16 | 1.25 | 1.46 | 2.30 | 2.59 |
| | 26 | 18.50 | 94.77 | 0.28 | 0.25 | | 0.30 | 0.48 | 0.57 | 0.61 | 0.71 | 1.11 | 1.25 |
| * | 27 | 19.00 | 95.27 | 0.15 | 0.13 | | 0.37 | 0.27 | 0.71 | 0.34 | 0.90 | 0.63 | 1.61 |
| * | 28 | 19.50 | 95.52 | 0.12 | 0.11 | | 0.29 | 0.22 | 0.58 | 0.28 | 0.74 | 0.53 | 1.34 |
| * | 29 | 20.00 | 95.87 | 0.14 | 0.12 | | 0.34 | 0.26 | 0.70 | 0.34 | 0.90 | 0.66 | 1.66 |
| * | 30 | 20.50 | 95.42 | 0.11 | 0.10 | | 0.30 | 0.20 | 0.60 | 0.25 | 0.76 | 0.48 | 1.37 |
| * | 31 | 21.00 | 95.47 | 0.17 | 0.15 | | 0.40 | 0.31 | 0.79 | 0.39 | 1.00 | 0.74 | 1.81 |
| * | 32 | 22.00 | 95.47 | 0.23 | 0.20 | | 0.60 | 0.41 | 1.18 | 0.53 | 1.50 | 1.00 | 2.71 |
| * | 33 | 23.00 | 95.42 | 0.34 | 0.30 | | 1.22 | 0.61 | 2.39 | 0.78 | 3.03 | 1.47 | 5.48 |
| * | 34 | 24.00 | 95.27 | 0.16 | 0.14 | | 1.28 | 0.28 | 2.49 | 0.36 | 3.15 | 0.68 | 5.64 |
| * | 35 | 25.00 | 95.12 | 0.06 | 0.05 | | 0.34 | 0.11 | 0.65 | 0.13 | 0.81 | 0.25 | 1.45 |
| * | 36 | 26.00 | 95.27 | 0.01 | 0.01 | | 0.37 | 0.02 | 0.71 | 0.02 | 0.90 | 0.04 | 1.61 |
| * | 37 | 27.00 | 96.72 | 0.10 | 0.09 | | 0.28 | 0.25 | 0.73 | 0.34 | 0.98 | 0.70 | 1.98 |
| | 38 | 28.00 | 97.27 | | 0.02 | | 0.05 | 0.16 | 0.48 | 0.24 | 0.70 | 0.57 | 1.61 |
| | 39 | 29.30 | 97.70 | | | | | 0.07 | 0.22 | 0.15 | 0.44 | 0.46 | 1.29 |
| | 40 | 32.00 | 98.60 | | | | | | | | | 0.14 | 0.41 |
| | 41 | 32.14 | 99.87 | | | | | | | | | | |
| Total | | | | | 0 | * | 16 | * | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.6 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | | | |
|---|----|-------|--------|-------------|------|---|------|-------|------|--------|------|--------|-------|------|--|
| Transect 6 | | | | | | | | | | | | | | | |
| WSE (ft) | | | | 96.91 | | | | 97.69 | | 98.04 | | 99.14 | | | |
| Disch (cfs) | | | | 37.00 | | | | 92.50 | | 128.00 | | 290.00 | | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev | Orig | Rev | |
| | 1 | 0.00 | 101.43 | | | | | | | | | | | | |
| | 2 | 0.50 | 101.04 | | | | | | | | | | | | |
| | 3 | 1.50 | 95.94 | | 2.36 | * | 2.52 | * | 2.71 | 3.02 | 2.98 | 3.34 | 4.04 | 4.49 | |
| | 4 | 1.90 | 96.82 | | 0.48 | * | 0.50 | * | 1.70 | 1.89 | 2.07 | 2.32 | 3.26 | 3.64 | |
| | 5 | 2.10 | 95.82 | 2.87 | 2.55 | | 2.72 | | 2.83 | 3.16 | 3.09 | 3.46 | 4.14 | 4.60 | |
| | 6 | 2.50 | 95.47 | 2.63 | 2.30 | | 2.46 | | 2.38 | 2.66 | 2.55 | 2.86 | 3.31 | 3.68 | |
| | 7 | 3.00 | 95.57 | 3.01 | 2.65 | | 2.82 | | 2.78 | 3.11 | 3.00 | 3.36 | 3.92 | 4.36 | |
| | 8 | 3.50 | 95.67 | 2.69 | 2.37 | | 2.53 | | 2.54 | 2.84 | 2.76 | 3.09 | 3.64 | 4.04 | |
| | 9 | 4.00 | 95.22 | 1.60 | 1.39 | | 1.49 | | 1.39 | 1.55 | 1.48 | 1.65 | 1.88 | 2.09 | |
| | 10 | 4.50 | 95.22 | 1.15 | 1.00 | | 1.07 | | 1.00 | 1.11 | 1.06 | 1.19 | 1.35 | 1.50 | |
| * | 11 | 5.00 | 95.07 | 0.28 | 0.24 | | 1.31 | * | 0.24 | 1.34 | 0.25 | 1.42 | 0.32 | 1.78 | |
| * | 12 | 5.50 | 95.07 | 0.45 | 0.39 | | 0.82 | * | 0.38 | 0.84 | 0.40 | 0.89 | 0.51 | 1.11 | |
| | 13 | 6.00 | 95.07 | 1.49 | 1.29 | | 1.38 | | 1.26 | 1.41 | 1.34 | 1.50 | 1.69 | 1.88 | |
| | 14 | 6.50 | 96.02 | 1.38 | 1.25 | | 1.33 | | 1.47 | 1.64 | 1.62 | 1.82 | 2.22 | 2.47 | |
| | 15 | 7.50 | 96.12 | 1.05 | 0.96 | | 1.02 | | 1.17 | 1.31 | 1.31 | 1.46 | 1.81 | 2.01 | |
| | 16 | 8.50 | 96.12 | 1.45 | 1.32 | | 1.41 | | 1.62 | 1.81 | 1.80 | 2.02 | 2.50 | 2.78 | |
| | 17 | 9.00 | 96.12 | 1.51 | 1.38 | | 1.47 | | 1.68 | 1.88 | 1.88 | 2.10 | 2.60 | 2.89 | |
| | 18 | 9.50 | 96.12 | 3.31 | 3.02 | | 3.22 | | 3.69 | 4.12 | 4.12 | 4.61 | 5.70 | 6.34 | |
| * | 19 | 10.00 | 96.12 | 5.48 | 5.00 | | 3.08 | * | 6.11 | 3.95 | 6.81 | 4.42 | 9.43 | 6.08 | |
| * | 20 | 10.50 | 96.12 | 6.01 | 5.48 | | 3.08 | * | 6.71 | 3.95 | 7.47 | 4.42 | 10.34 | 6.08 | |
| * | 21 | 11.00 | 95.87 | 5.71 | 5.10 | | 3.18 | * | 5.73 | 3.74 | 6.27 | 4.11 | 8.44 | 5.49 | |
| | 22 | 11.50 | 95.62 | 4.88 | 4.30 | | 4.59 | | 4.56 | 5.09 | 4.93 | 5.52 | 6.47 | 7.20 | |
| | 23 | 12.00 | 95.32 | 3.35 | 2.92 | | 3.12 | | 2.95 | 3.30 | 3.15 | 3.53 | 4.04 | 4.49 | |
| | 24 | 12.50 | 96.22 | 3.88 | 3.59 | | 3.82 | | 4.60 | 5.13 | 5.17 | 5.79 | 7.25 | 8.07 | |
| | 25 | 13.00 | 96.32 | 2.31 | 2.18 | | 2.31 | | 2.95 | 3.30 | 3.35 | 3.75 | 4.77 | 5.31 | |
| | 26 | 13.50 | 96.27 | 2.58 | 2.41 | | 2.56 | | 3.17 | 3.54 | 3.58 | 4.01 | 5.05 | 5.63 | |
| * | 27 | 14.00 | 96.22 | 5.24 | 4.84 | | 2.82 | * | 6.21 | 3.78 | 6.98 | 4.27 | 9.79 | 5.95 | |
| * | 28 | 14.40 | 96.72 | 2.46 | 3.28 | * | 1.41 | * | 7.54 | 3.43 | 9.03 | 4.13 | 13.85 | 6.31 | |
| * | 29 | 15.00 | 95.92 | 1.22 | 1.09 | | 4.31 | * | 1.25 | 5.14 | 1.37 | 5.67 | 1.85 | 7.61 | |
| * | 30 | 15.50 | 96.22 | 4.64 | 4.29 | | 2.82 | * | 5.50 | 3.78 | 6.18 | 4.27 | 8.66 | 5.95 | |
| * | 31 | 15.70 | 96.17 | 4.85 | 4.45 | | 2.95 | * | 5.57 | 3.87 | 6.23 | 4.34 | 8.68 | 6.02 | |
| | 32 | 16.70 | 96.97 | | | | | | 3.37 | 2.34 | 4.28 | 2.99 | 7.03 | 4.89 | |
| | 33 | 17.30 | 96.22 | 3.60 | 3.33 | | 3.54 | | 4.26 | 4.76 | 4.79 | 5.37 | 6.72 | 7.49 | |
| | 34 | 18.00 | 96.32 | 3.10 | 2.92 | | 3.11 | | 3.96 | 4.42 | 4.49 | 5.04 | 6.40 | 7.13 | |
| | 35 | 19.20 | 97.08 | | | | | | 2.30 | 2.56 | 3.04 | 3.41 | 5.18 | 5.80 | |
| * | 36 | 20.00 | 96.12 | 0.56 | 0.51 | | 1.23 | * | 0.62 | 1.58 | 0.70 | 1.77 | 0.96 | 2.43 | |
| | 37 | 20.50 | 96.02 | 1.34 | 1.21 | | 1.29 | | 1.42 | 1.59 | 1.58 | 1.76 | 2.15 | 2.40 | |
| | 38 | 21.00 | 96.22 | 1.18 | 1.09 | | 1.16 | | 1.40 | 1.56 | 1.57 | 1.76 | 2.20 | 2.45 | |
| * | 39 | 21.50 | 96.12 | 0.88 | 0.80 | | 1.85 | * | 0.98 | 2.37 | 1.09 | 2.65 | 1.51 | 3.65 | |
| | 40 | 22.00 | 96.62 | 1.04 | 1.14 | | 1.20 | | 2.10 | 2.34 | 2.48 | 2.77 | 3.72 | 4.15 | |
| | 41 | 22.10 | 96.82 | | 0.52 | * | 0.53 | * | 1.83 | 2.04 | 2.24 | 2.50 | 3.52 | 3.93 | |
| | 42 | 24.10 | 98.85 | | | | | | | | | | 0.87 | 1.07 | |
| | 43 | 24.20 | 100.08 | | | | | | | | | | | | |
| | 44 | 25.40 | 100.75 | | | | | | | | | | | | |
| | 45 | 25.44 | 100.77 | | | | | | | | | | | | |
| Total | | | | 4 * | | | | 15 * | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.7 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | | |
|---|----|-------------|--------|--------------|-------|---|--------|-------|-------|--------|-------|--------|-------|------|
| Transect 7 | | | | | | | | | | | | | | |
| | | WSE (ft) | | 97.11 | | | | 97.58 | | 97.76 | | 98.28 | | |
| | | Disch (cfs) | | 37.00 | | | | 92.50 | | 128.00 | | 290.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev | Orig | Rev |
| | 1 | 0.00 | 98.84 | | | | | | | | | | | |
| | 2 | 0.20 | 98.45 | | | | | | | | | | | |
| | 3 | 0.50 | 97.66 | | | | | | | | -0.12 | 0.22 | -0.70 | 1.19 |
| | 4 | 0.90 | 97.47 | | | | | | -0.10 | 0.19 | -0.24 | 0.45 | -0.83 | 1.42 |
| | 5 | 5.00 | 97.40 | | | | | | -0.14 | 0.26 | -0.28 | 0.51 | -0.88 | 1.50 |
| | 6 | 7.40 | 97.07 | | | | | | -0.29 | 0.53 | -0.44 | 0.79 | -1.09 | 1.86 |
| | 7 | 8.30 | 96.97 | 0.00 | -0.03 | | 0.06 | | -0.32 | 0.60 | -0.48 | 0.87 | -1.15 | 1.96 |
| * | 8 | 9.00 | 96.72 | -0.13 | -0.07 | | 0.13 | | -0.41 | 0.76 | -0.57 | 1.04 | -1.29 | 2.20 |
| * | 9 | 10.00 | 96.57 | -0.08 | -0.13 | | 0.26 | | -0.22 | 0.65 | -0.30 | 0.89 | -0.66 | 1.82 |
| * | 10 | 11.00 | 96.27 | 0.02 | -0.08 | | 0.25 | | 0.05 | 0.78 | 0.06 | 1.03 | 0.14 | 2.03 |
| * | 11 | 12.00 | 95.97 | 0.04 | 0.02 | | 0.34 * | | 0.09 | 0.90 | 0.12 | 1.17 | 0.24 | 2.22 |
| * | 12 | 13.00 | 95.77 | 0.10 | 0.04 | | 0.41 * | | 0.21 | 0.97 | 0.28 | 1.25 | 0.57 | 2.35 |
| * | 13 | 13.70 | 95.77 | 0.00 | 0.10 | | 0.46 * | | 0.25 | 0.97 | 0.32 | 1.25 | 0.65 | 2.35 |
| * | 14 | 14.80 | 96.17 | 0.09 | 0.11 | | 0.46 * | | 0.21 | 0.82 | 0.28 | 1.08 | 0.58 | 2.09 |
| * | 15 | 16.80 | 94.77 | 0.04 | 0.09 | | 0.36 * | | 0.08 | 1.30 | 0.10 | 1.64 | 0.19 | 2.94 |
| | 16 | 18.00 | 94.77 | 1.12 | 0.04 | | 0.67 * | | 2.19 | 2.55 | 2.83 | 3.22 | 5.42 | 5.76 |
| | 17 | 19.00 | 94.67 | 0.73 | 1.08 | | 1.31 | | 1.42 | 1.65 | 1.83 | 2.08 | 3.50 | 3.72 |
| | 18 | 19.50 | 94.67 | 0.48 | 0.70 | | 0.85 | | 0.93 | 1.09 | 1.20 | 1.37 | 2.30 | 2.45 |
| | 19 | 20.00 | 94.77 | 0.46 | 0.46 | | 0.56 | | 0.90 | 1.05 | 1.16 | 1.32 | 2.23 | 2.37 |
| | 20 | 20.50 | 94.87 | 0.31 | 0.44 | | 0.54 | | 0.61 | 0.71 | 0.79 | 0.90 | 1.52 | 1.61 |
| | 21 | 21.00 | 94.87 | 1.31 | 0.30 | | 0.36 | | 2.57 | 2.99 | 3.32 | 3.78 | 6.38 | 6.79 |
| | 22 | 21.50 | 94.97 | 1.15 | 1.26 | | 1.52 | | 2.27 | 2.64 | 2.93 | 3.34 | 5.66 | 6.02 |
| | 23 | 22.00 | 95.07 | 1.39 | 1.11 | | 1.34 | | 2.77 | 3.22 | 3.59 | 4.09 | 6.96 | 7.40 |
| * | 24 | 22.50 | 95.67 | 3.18 | 1.34 | | 1.62 | | 6.70 | 3.23 | 8.81 | 4.15 | 17.59 | 7.75 |
| * | 25 | 23.00 | 95.47 | 3.60 | 3.09 | | 1.55 * | | 7.41 | 3.45 | 9.70 | 4.42 | 19.14 | 8.15 |
| * | 26 | 23.50 | 94.52 | 1.78 | 3.49 | | 1.69 * | | 3.43 | 3.99 | 4.41 | 5.02 | 8.39 | 8.93 |
| * | 27 | 24.00 | 94.77 | 3.72 | 1.71 | | 2.07 | | 7.28 | 3.90 | 9.39 | 4.93 | 18.00 | 8.82 |
| * | 28 | 24.50 | 94.77 | 3.76 | 3.59 | | 2.00 * | | 7.35 | 3.90 | 9.49 | 4.93 | 18.19 | 8.82 |
| * | 29 | 25.00 | 94.97 | 2.49 | 3.63 | | 2.00 * | | 4.93 | 3.71 | 6.38 | 4.70 | 12.31 | 8.48 |
| | 30 | 25.50 | 94.87 | 1.44 | 2.40 | | 1.88 * | | 2.83 | 3.30 | 3.66 | 4.17 | 7.04 | 7.49 |
| * | 31 | 26.00 | 94.97 | 1.85 | 1.39 | | 1.68 | | 3.66 | 3.10 | 4.74 | 3.92 | 9.15 | 7.07 |
| * | 32 | 26.50 | 95.07 | 2.15 | 1.79 | | 1.57 | | 4.28 | 3.62 | 5.55 | 4.59 | 10.76 | 8.31 |
| | 33 | 27.00 | 95.07 | 1.16 | 2.08 | | 1.82 | | 2.31 | 2.69 | 3.00 | 3.41 | 5.80 | 6.18 |
| | 34 | 28.00 | 95.47 | 0.30 | 1.12 | | 1.36 | | 0.62 | 0.72 | 0.81 | 0.92 | 1.59 | 1.70 |
| | 35 | 29.00 | 95.47 | 0.30 | 0.29 | | 0.35 | | 0.62 | 0.72 | 0.81 | 0.92 | 1.59 | 1.70 |
| * | 36 | 30.00 | 95.62 | 0.14 | 0.29 | | 0.35 | | 0.29 | 0.77 | 0.39 | 0.98 | 0.77 | 1.83 |
| | 37 | 30.50 | 97.07 | | 0.14 | | 0.37 * | | 0.12 | 0.31 | 0.18 | 0.46 | 0.45 | 1.08 |
| | 38 | 30.90 | 99.05 | | 0.01 | | 0.03 | | | | | | | |
| | 39 | 34.60 | 97.33 | | | | | | 0.07 | 0.19 | 0.13 | 0.34 | 0.38 | 0.92 |
| | 40 | 36.10 | 97.52 | | | | | | 0.03 | 0.07 | 0.09 | 0.23 | 0.33 | 0.80 |
| | 41 | 36.50 | 98.56 | | | | | | | | | | | |
| | 42 | 37.50 | 97.77 | | | | | | | | | | 0.25 | 0.61 |
| | 43 | 40.50 | 98.28 | | | | | | | | | | 0.00 | 0.04 |
| | 44 | 46.80 | 100.54 | | | | | | | | | | | |
| | 45 | 47.00 | 100.66 | | | | | | | | | | | |
| Total | | | | | 0 * | | 12 * | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.8 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | | |
|---|----|-------|-------|-------------|------|-------|------|--------|-------|--------|-------|------|-------|------|
| Transect 8 | | | | | | | | | | | | | | |
| WSE (ft) | | | | 93.60 | | 94.25 | | 94.51 | | 95.24 | | | | |
| Disch (cfs) | | | | 37.00 | | 92.50 | | 128.00 | | 290.00 | | | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev | Orig | Rev |
| | 1 | 0.00 | 98.19 | | | | | | | | | | | |
| | 2 | 0.30 | 97.64 | | | | | | | | | | | |
| | 3 | 0.40 | 96.14 | | | | | | | | | | | |
| | 4 | 1.00 | 96.17 | | | | | | | | | | | |
| | 5 | 2.30 | 95.76 | | | | | | | | | | | |
| | 6 | 2.40 | 93.26 | | 0.34 | * | 0.57 | * | 1.06 | 1.75 | 1.45 | 2.38 | 2.96 | 4.80 |
| | 7 | 3.00 | 93.51 | | 0.14 | | 0.23 | * | 0.87 | 1.44 | 1.25 | 2.05 | 2.71 | 4.39 |
| | 8 | 4.00 | 92.92 | | 0.54 | * | 0.91 | * | 1.29 | 2.14 | 1.70 | 2.80 | 3.29 | 5.34 |
| | 9 | 7.76 | 96.64 | | | | | | | | | | | |
| | 10 | 10.20 | 95.46 | | | | | | | | | | | |
| | 11 | 10.75 | 93.55 | | 0.09 | | 0.16 | | 0.84 | 1.39 | 1.21 | 1.99 | 2.66 | 4.32 |
| | 12 | 11.20 | 93.05 | 0.35 | 0.47 | | 0.79 | * | 1.21 | 2.00 | 1.61 | 2.64 | 3.17 | 5.14 |
| | 13 | 11.60 | 94.01 | | | | | | 0.86 | 0.67 | 1.65 | 1.28 | 4.56 | 3.50 |
| * | 14 | 12.30 | 92.55 | 1.18 | 1.53 | * | 1.65 | * | 3.23 | 3.43 | 4.15 | 4.39 | 7.70 | 8.03 |
| * | 15 | 12.50 | 92.55 | 1.21 | 1.57 | * | 1.55 | * | 3.31 | 3.22 | 4.26 | 4.11 | 7.90 | 7.53 |
| * | 16 | 13.00 | 92.70 | 1.42 | 1.86 | * | 1.59 | | 4.08 | 3.46 | 5.28 | 4.46 | 9.95 | 8.28 |
| * | 17 | 13.50 | 92.45 | 1.95 | 2.53 | * | 1.55 | * | 5.21 | 3.15 | 6.65 | 4.00 | 12.24 | 7.26 |
| * | 18 | 14.00 | 91.70 | 3.16 | 4.05 | * | 2.17 | * | 7.53 | 3.98 | 9.38 | 4.93 | 16.42 | 8.51 |
| * | 19 | 14.30 | 91.35 | 2.88 | 3.68 | * | 2.43 | | 6.66 | 4.34 | 8.23 | 5.33 | 14.19 | 9.06 |
| * | 20 | 14.60 | 91.45 | 4.13 | 5.28 | * | 2.35 | * | 9.62 | 4.24 | 11.92 | 5.22 | 20.63 | 8.91 |
| * | 21 | 15.00 | 91.00 | 4.67 | 5.95 | * | 2.67 | * | 10.56 | 4.68 | 12.97 | 5.72 | 22.08 | 9.60 |
| * | 22 | 15.30 | 91.00 | 4.66 | 5.94 | * | 2.67 | * | 10.53 | 4.68 | 12.95 | 5.72 | 22.04 | 9.60 |
| | 23 | 15.60 | 90.55 | 1.23 | 1.56 | * | 2.62 | * | 2.72 | 4.50 | 3.32 | 5.46 | 5.58 | 9.04 |
| | 24 | 16.00 | 90.65 | 0.96 | 1.22 | * | 2.05 | * | 2.13 | 3.53 | 2.61 | 4.29 | 4.39 | 7.12 |
| | 25 | 16.30 | 90.65 | 1.08 | 1.37 | * | 2.29 | * | 2.39 | 3.95 | 2.92 | 4.80 | 4.92 | 7.97 |
| | 26 | 16.60 | 90.75 | 0.66 | 0.84 | | 1.41 | * | 1.47 | 2.43 | 1.80 | 2.97 | 3.05 | 4.94 |
| | 27 | 17.00 | 91.60 | 0.38 | 0.49 | | 0.81 | * | 0.90 | 1.48 | 1.11 | 1.83 | 1.94 | 3.15 |
| | 28 | 17.50 | 91.65 | 0.33 | 0.42 | | 0.71 | * | 0.78 | 1.29 | 0.97 | 1.60 | 1.70 | 2.76 |
| | 29 | 18.00 | 91.80 | 0.43 | 0.55 | | 0.92 | * | 1.03 | 1.71 | 1.29 | 2.13 | 2.27 | 3.69 |
| | 30 | 18.50 | 91.75 | 0.25 | 0.32 | | 0.54 | * | 0.60 | 0.99 | 0.75 | 1.23 | 1.31 | 2.12 |
| | 31 | 19.00 | 91.85 | 0.37 | 0.47 | | 0.79 | * | 0.90 | 1.48 | 1.12 | 1.84 | 1.98 | 3.20 |
| | 32 | 19.50 | 90.50 | 0.34 | 0.43 | | 0.72 | * | 0.75 | 1.24 | 0.92 | 1.51 | 1.54 | 2.49 |
| | 33 | 20.00 | 90.95 | 0.53 | 0.68 | | 1.13 | * | 1.19 | 1.98 | 1.47 | 2.41 | 2.49 | 4.04 |
| | 34 | 20.50 | 91.00 | 0.50 | 0.64 | | 1.07 | * | 1.13 | 1.87 | 1.39 | 2.28 | 2.36 | 3.83 |
| | 35 | 21.00 | 91.85 | 0.26 | 0.33 | | 0.56 | * | 0.63 | 1.04 | 0.79 | 1.29 | 1.39 | 2.25 |
| | 36 | 22.00 | 91.15 | 0.27 | 0.34 | | 0.58 | * | 0.62 | 1.02 | 0.76 | 1.25 | 1.30 | 2.10 |
| * | 37 | 23.00 | 91.25 | 0.13 | 0.17 | | 0.47 | * | 0.30 | 0.84 | 0.37 | 1.03 | 0.63 | 1.74 |
| * | 38 | 24.00 | 91.35 | 0.11 | 0.14 | | 0.46 | * | 0.25 | 0.82 | 0.31 | 1.01 | 0.54 | 1.71 |
| * | 39 | 25.00 | 91.65 | 0.15 | 0.19 | | 0.42 | * | 0.36 | 0.76 | 0.44 | 0.94 | 0.77 | 1.62 |
| | 40 | 26.00 | 91.75 | 0.45 | 0.58 | | 0.97 | * | 1.08 | 1.78 | 1.34 | 2.21 | 2.36 | 3.82 |
| | 41 | 27.00 | 92.25 | 0.54 | 0.70 | | 1.17 | * | 1.38 | 2.29 | 1.75 | 2.88 | 3.17 | 5.14 |
| | 42 | 28.00 | 92.45 | 0.20 | 0.26 | | 0.43 | * | 0.53 | 0.88 | 0.68 | 1.12 | 1.26 | 2.03 |
| | 43 | 28.45 | 93.55 | | 0.03 | | 0.05 | | 0.28 | 0.47 | 0.41 | 0.67 | 0.90 | 1.46 |
| | 44 | 28.80 | 96.15 | | | | | | | | | | | |
| | 45 | 30.80 | 97.44 | | | | | | | | | | | |
| | 46 | 30.90 | 97.56 | | | | | | | | | | | |
| Total | | | | | 14 | * | 31 | * | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 4. Summary of Calibration Details, Lake Creek Study Site 2, High Flow Deck | | | | | | | | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| Trans No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| DISCHARGE | | | | | | | | |
| Meas. | 20 | 19 | 27 | 20 | 23 | 25 | 25 | 20 |
| | 42 | 33 | 43 | 36 | 41 | 37 | 37 | 28 |
| | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| Calc. | 21 | 23 | 26 | 26 | 29 | 25 | 27 | 20 |
| | 41 | 34 | 49 | 39 | 41 | 36 | 38 | 28 |
| | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| Given | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| Stage (given) | | | | | | | | |
| | 98.21 | 97.65 | 97.60 | 97.00 | 97.06 | 96.65 | 96.91 | 93.32 |
| | 98.40 | 97.82 | 97.80 | 97.26 | 97.27 | 96.82 | 97.07 | 93.55 |
| | 98.80 | 98.70 | 98.71 | 98.17 | 98.14 | 98.07 | 97.75 | 94.52 |
| Plotting Stage (given) | | | | | | | | |
| | 2.31 | 2.28 | 2.20 | 2.14 | 2.44 | 1.38 | 2.19 | 2.72 |
| | 2.50 | 2.45 | 2.40 | 2.40 | 2.65 | 1.55 | 2.35 | 2.95 |
| | 2.90 | 3.33 | 3.31 | 3.31 | 3.52 | 2.80 | 3.03 | 3.92 |
| Ratio of Modeled vs Predicted Discharge (given) | | | | | | | | |
| Based on Stage-Discharge Relationship | | | | | | | | |
| | 1.042 | 0.915 | 0.934 | 0.974 | 0.944 | 0.894 | 0.933 | 0.941 |
| | 0.939 | 1.116 | 1.091 | 1.036 | 1.077 | 1.143 | 1.092 | 1.081 |
| | 1.022 | 0.979 | 0.982 | 0.991 | 0.983 | 0.978 | 0.982 | 0.983 |
| Mean Error of Stage/Discharge Relationship (given) | | | | | | | | |
| | 4.2066 | 7.2592 | 5.7604 | 2.3449 | 4.9435 | 8.8451 | 5.8385 | 5.1562 |
| Stage/Discharge Relationship (S vs Q) $S=A*Q^{**}B+SZF$ (given) | | | | | | | | |
| A= | 1.5689 | 1.1193 | 1.0348 | 0.9816 | 1.2475 | 0.3531 | 1.1838 | 1.3911 |
| B= | 0.1268 | 0.2238 | 0.2387 | 0.2501 | 0.2131 | 0.4245 | 0.1946 | 0.2128 |
| SZF= | 95.90 | 95.37 | 95.40 | 94.86 | 94.62 | 95.27 | 94.72 | 90.60 |
| B Coefficient log/log Relationship (given) | | | | | | | | |
| | 7.884 | 4.469 | 4.189 | 3.999 | 4.694 | 2.356 | 5.138 | 4.700 |

DRAFT

**LAKE CREEK INSTREAM FLOW REPORT
CALIBRATION REPORT
STUDY SITE 2, TRANSECTS 1-8
1 VELOCITY SET HIGH FLOW CALIBRATION**

Prepared for:

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Washington Department of Fish and Wildlife Service

Prepared by:

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Jean Caldwell and Associates

MAY 6, 2007

Table 1a. Velocity Adjustment Factors, Lake Creek Study Site 2, High Flow Deck

| Flow | Orig | Rev | Orig | Rev | Orig | Rev |
|------|--------|--------|--------|--------|--------|--------|
| 35 | 0.8653 | 1.0825 | 0.9893 | 0.9998 | 0.7664 | 0.6938 |
| 40 | 0.9054 | 1.1637 | 1.0277 | 1.0385 | 0.8130 | 0.7308 |
| 45 | 0.9415 | 1.2400 | 1.0641 | 1.0750 | 0.8571 | 0.7654 |
| 50 | 0.9750 | 1.3128 | 1.0979 | 1.1090 | 0.8991 | 0.7983 |
| 55 | 1.0066 | 1.3824 | 1.1275 | 1.1388 | 0.9394 | 0.8296 |
| 60 | 1.0367 | 1.4493 | 1.1546 | 1.1659 | 0.9780 | 0.8596 |
| 65 | 1.0656 | 1.5139 | 1.1799 | 1.1913 | 1.0153 | 0.8884 |
| 70 | 1.0936 | 1.5765 | 1.2041 | 1.2156 | 1.0514 | 0.9161 |
| 80 | 1.1471 | 1.6965 | 1.2501 | 1.2617 | 1.1203 | 0.9689 |
| 90 | 1.1981 | 1.8106 | 1.2933 | 1.3051 | 1.1856 | 1.0187 |
| 100 | 1.2471 | 1.9199 | 1.3344 | 1.3463 | 1.2478 | 1.0658 |
| 110 | 1.2943 | 2.0251 | 1.3737 | 1.3857 | 1.3073 | 1.1109 |
| 120 | 1.3401 | 2.1267 | 1.4114 | 1.4236 | 1.3646 | 1.1540 |
| 130 | 1.3845 | 2.2252 | 1.4479 | 1.4602 | 1.4198 | 1.1954 |
| 140 | 1.4278 | 2.3208 | 1.4831 | 1.4956 | 1.4732 | 1.2354 |
| 150 | 1.4700 | 2.4140 | 1.5173 | 1.5299 | 1.5250 | 1.2741 |
| 160 | 1.5113 | 2.5049 | 1.5506 | 1.5633 | 1.5753 | 1.3116 |
| 170 | 1.5517 | 2.5938 | 1.5829 | 1.5958 | 1.6243 | 1.3480 |
| 180 | 1.5913 | 2.6808 | 1.6145 | 1.6275 | 1.6721 | 1.3834 |
| 190 | 1.6302 | 2.7660 | 1.6453 | 1.6585 | 1.7187 | 1.4179 |
| 200 | 1.6684 | 2.8497 | 1.6755 | 1.6888 | 1.7643 | 1.4516 |
| 210 | 1.7059 | 2.9319 | 1.7050 | 1.7184 | 1.8090 | 1.4845 |
| 220 | 1.7428 | 3.0127 | 1.7339 | 1.7475 | 1.8527 | 1.5167 |
| 230 | 1.7792 | 3.0922 | 1.7623 | 1.7760 | 1.8956 | 1.5482 |
| 240 | 1.8151 | 3.1705 | 1.7901 | 1.8039 | 1.9377 | 1.5791 |
| 250 | 1.8504 | 3.2477 | 1.8175 | 1.8314 | 1.9790 | 1.6093 |
| 260 | 1.8852 | 3.3238 | 1.8444 | 1.8584 | 2.0197 | 1.6388 |
| 270 | 1.9197 | 3.3988 | 1.8708 | 1.8850 | 2.0592 | 1.6678 |
| 280 | 1.9536 | 3.4730 | 1.8968 | 1.9111 | 2.0983 | 1.6964 |
| 290 | 1.9872 | 3.5461 | 1.9224 | 1.9369 | 2.1369 | 1.7245 |

Table 1b. Velocity Adjustment Factors, Lake Creek Study Site 2, High Flow Deck

| Flow | Orig | Rev | Orig | Rev | Orig | Rev |
|------|--------|--------|--------|--------|--------|--------|
| 35 | 0.8660 | 0.8714 | 0.8435 | 1.0321 | 0.8561 | 0.9113 |
| 40 | 0.8995 | 0.9058 | 0.9104 | 1.1105 | 0.8124 | 0.8754 |
| 45 | 0.9316 | 0.9387 | 0.9740 | 1.1841 | 0.7745 | 0.8443 |
| 50 | 0.9625 | 0.9700 | 1.0349 | 1.2543 | 0.7436 | 0.8172 |
| 55 | 0.9922 | 1.0001 | 1.0933 | 1.3211 | 0.7203 | 0.7957 |
| 60 | 1.0207 | 1.0289 | 1.1496 | 1.3852 | 0.7024 | 0.7790 |
| 65 | 1.0483 | 1.0567 | 1.2040 | 1.4468 | 0.6882 | 0.7655 |
| 70 | 1.0750 | 1.0836 | 1.2568 | 1.5063 | 0.6768 | 0.7545 |
| 80 | 1.1263 | 1.1348 | 1.3580 | 1.6194 | 0.6600 | 0.7380 |
| 90 | 1.1749 | 1.1832 | 1.4543 | 1.7263 | 0.6485 | 0.7264 |
| 100 | 1.2212 | 1.2293 | 1.5465 | 1.8278 | 0.6406 | 0.7181 |
| 110 | 1.2656 | 1.2733 | 1.6350 | 1.9248 | 0.6352 | 0.7122 |
| 120 | 1.3083 | 1.3155 | 1.7204 | 2.0178 | 0.6315 | 0.7079 |
| 130 | 1.3495 | 1.3562 | 1.8030 | 2.1074 | 0.6291 | 0.7049 |
| 140 | 1.3893 | 1.3954 | 1.8832 | 2.1939 | 0.6276 | 0.7028 |
| 150 | 1.4279 | 1.4333 | 1.9611 | 2.2777 | 0.6269 | 0.7014 |
| 160 | 1.4653 | 1.4701 | 2.0370 | 2.3589 | 0.6267 | 0.7006 |
| 170 | 1.5018 | 1.5059 | 2.1111 | 2.4379 | 0.6270 | 0.7003 |
| 180 | 1.5373 | 1.5406 | 2.1834 | 2.5148 | 0.6277 | 0.7003 |
| 190 | 1.5719 | 1.5745 | 2.2542 | 2.5898 | 0.6286 | 0.7006 |
| 200 | 1.6058 | 1.6076 | 2.3236 | 2.6630 | 0.6298 | 0.7011 |
| 210 | 1.6389 | 1.6399 | 2.3916 | 2.7346 | 0.6311 | 0.7019 |
| 220 | 1.6713 | 1.6715 | 2.4583 | 2.8047 | 0.6326 | 0.7028 |
| 230 | 1.7030 | 1.7024 | 2.5239 | 2.8733 | 0.6342 | 0.7038 |
| 240 | 1.7341 | 1.7327 | 2.5881 | 2.9398 | 0.6358 | 0.7043 |
| 250 | 1.7647 | 1.7624 | 2.6514 | 3.0052 | 0.6369 | 0.7048 |
| 260 | 1.7947 | 1.7916 | 2.7136 | 3.0695 | 0.6383 | 0.7055 |
| 270 | 1.8242 | 1.8203 | 2.7750 | 3.1327 | 0.6398 | 0.7064 |
| 280 | 1.8532 | 1.8484 | 2.8354 | 3.1949 | 0.6414 | 0.7074 |
| 290 | 1.8818 | 1.8761 | 2.8950 | 3.2560 | 0.6431 | 0.7085 |

Table 1c. Velocity Adjustment Factors, Lake Creek Study Site 2, High Flow Deck

| Flow | Orig | Rev | Orig | Rev |
|------|--------|--------|--------|--------|
| 35 | 0.9204 | 1.1149 | 1.2261 | 1.4283 |
| 40 | 1.0010 | 1.2078 | 1.3032 | 1.5158 |
| 45 | 1.0782 | 1.2963 | 1.3758 | 1.5980 |
| 50 | 1.1525 | 1.3810 | 1.4446 | 1.6757 |
| 55 | 1.2245 | 1.4623 | 1.5101 | 1.7496 |
| 60 | 1.2942 | 1.5407 | 1.5728 | 1.8202 |
| 65 | 1.3621 | 1.6166 | 1.6331 | 1.8881 |
| 70 | 1.4284 | 1.6897 | 1.6896 | 1.9514 |
| 80 | 1.5569 | 1.8293 | 1.7970 | 2.0711 |
| 90 | 1.6805 | 1.9608 | 1.8986 | 2.1844 |
| 100 | 1.8000 | 2.0859 | 1.9953 | 2.2920 |
| 110 | 1.9158 | 2.2054 | 2.0876 | 2.3947 |
| 120 | 2.0284 | 2.3203 | 2.1763 | 2.4931 |
| 130 | 2.1380 | 2.4310 | 2.2616 | 2.5878 |
| 140 | 2.2451 | 2.5381 | 2.3440 | 2.6791 |
| 150 | 2.3498 | 2.6420 | 2.4238 | 2.7675 |
| 160 | 2.4523 | 2.7429 | 2.5013 | 2.8532 |
| 170 | 2.5528 | 2.8411 | 2.5766 | 2.9365 |
| 180 | 2.6515 | 2.9369 | 2.6499 | 3.0175 |
| 190 | 2.7485 | 3.0304 | 2.7215 | 3.0965 |
| 200 | 2.8438 | 3.1219 | 2.7914 | 3.1737 |
| 210 | 2.9377 | 3.2114 | 2.8598 | 3.2491 |
| 220 | 3.0302 | 3.2991 | 2.9267 | 3.3229 |
| 230 | 3.1213 | 3.3851 | 2.9923 | 3.3951 |
| 240 | 3.2112 | 3.4695 | 3.0567 | 3.4660 |
| 250 | 3.2999 | 3.5525 | 3.1199 | 3.5355 |
| 260 | 3.3874 | 3.6340 | 3.1820 | 3.6038 |
| 270 | 3.4739 | 3.7142 | 3.2430 | 3.6709 |
| 280 | 3.5594 | 3.7932 | 3.3031 | 3.7369 |
| 290 | 3.6440 | 3.8708 | 3.3622 | 3.8018 |

Table 2. Changes to original data decks, Lake Creek Study Site 2, Hi Flow Deck

| Trans | Station | High Flow | | Other |
|-------|---------|-----------|-------------------|--------------------|
| | | Orig | Rev | |
| 1 | 0.0 | | | n 2.9332 to 0.9000 |
| | 0.1 | | | n 2.9332 to 0.9000 |
| | 1.5 | | | n 2.9332 to 0.9000 |
| | 2.5 | | | n 1.5883 to 0.9000 |
| | 3.5 | | | n 1.3636 to 0.9000 |
| | 18.0 | | | n 0.0202 to 0.10 |
| | 18.5 | | | n 0.0705 to 0.05 |
| | 19.0 | | | n 0.0053 to 0.07 |
| | 19.5 | | | n 0.0053 to 0.05 |
| | 20.0 | | | n 0.053 to 0.05 |
| | 20.5 | | | n 0.0056 to 0.05 |
| | 21.0 | | | n 0.0054 to 0.04 |
| | 21.5 | | | n 0.0083 to 0.04 |
| | 22.0 | | | n 0.0177 to 0.04 |
| | 23.0 | | | n 0.0339 to 0.05 |
| | 23.5 | | | n 0.0396 to 0.05 |
| | 24.0 | | | n 0.0418 to 0.05 |
| | 26.5 | | | n 1.0011 to 0.900 |
| | 28.0 | | | n 0.018 to 0.05 |
| | 28.5 | | | n 0.0105 to 0.05 |
| | 29.0 | | | n 0.0135 to 0.05 |
| | 29.5 | | | n 0.0401 to 0.04 |
| | 30.0 | | | n 0.1663 to 0.04 |
| 31.0 | | | n 0.1090 to 0.05 | |
| 32.0 | | | n 0.0151 to 0.04 | |
| 33.0 | | | n 0.0096 to 0.04 | |
| 34.9 | | | n 0.0204 to 0.04 | |
| 35.5 | | | n 1.0011 to 0.900 | |
| 2 | | | | No changes made |
| 3 | | | | No changes made |
| 4 | | | | No changes made |
| 5 | 4.0 | | | n 0.4799 to 0.2 |

Table 2. Changes to original data decks, Lake Creek Study Site 2, Hi Flow Deck

| Trans | Station | High Flow | | Other |
|-------|---------|-----------|------------------|-------------------|
| | | Orig | Rev | |
| 6 | 8.0 | | | n 0.2673 to 0.1 |
| | 11.0 | | | n 0.8197 to 0.2 |
| | 12.0 | | | n 0.0597 to 0.1 |
| | 14.0 | | | n 0.0229 to 0.06 |
| | 14.5 | | | n 0.1022 to 0.06 |
| | 15.5 | | | n 0.0547 to 0.07 |
| | 16.0 | | | n 0.0513 to 0.07 |
| | 16.5 | | | n 0.0419 to 0.07 |
| | 17.0 | | | n 0.0311 to 0.07 |
| | 19.0 | | | n 0.9 to 0.35 |
| | 19.5 | | | n 0.667 to 0.4 |
| | 20.0 | | | n 0.90 to 0.30 |
| | 20.5 | | | n 1.0227 to 0.40 |
| | 21.0 | | | n 0.4802 to 0.3 |
| | 22.0 | | | n 0.330 to 0.20 |
| | 23.0 | | | n 0.7408 to 0.1 |
| | 24.0 | | | n 0.900 to 0.1 |
| | 25.0 | | | n 2.0737 to 0.40 |
| | 26.0 | | | n 11.8535 to 0.35 |
| | 27.0 | | | n 0.4991 to 0.2 |
| | 5.0 | | | n 1.2603 to 0.25 |
| | 5.5 | | | n 0.7842 to .40 |
| | 10.0 | | | n 0.0348 to 0.6 |
| | 10.5 | | | n 0.0317 to 0.06 |
| | 11.0 | | | n 0.0410 to 0.07 |
| | 14.0 | | | n 0.0378 to 0.06 |
| | 14.4 | | | n 0.0204 to 0.05 |
| 15.0 | | | n 0.1849 to 0.05 | |
| 15.5 | | | n 0.0370 to 0.06 | |
| 15.7 | | | n 0.0373 to 0.06 | |
| 16.7 | | | n 0.0373 to 0.6 | |
| 20.0 | | | n 0.3401 to 0.15 | |
| 21.5 | | | n 0.2164 to 0.10 | |
| 7 | 9.0 | | | n 0.5601 to 0.35 |
| | 10.0 | | | n 0.90 to 0.15 |

Table 2. Changes to original data decks, Lake Creek Study Site 2, Hi Flow Deck

| Trans | Station | High Flow | | Other |
|-------|---------|-----------|-----|--------------------|
| | | Orig | Rev | |
| 8 | 11.0 | | | n 0.90 to 0.15 |
| | 12.0 | | | n 0.90 to 0.15 |
| | 13.0 | | | n 0.90 to 0.15 |
| | 13.7 | | | n 0.90 to 0.15 |
| | 14.8 | | | n 0.90 to 0.15 |
| | 16.8 | | | n 0.90 to 0.15 |
| | 22.5 | | | n 0.0580 to 0.14 |
| | 23.0 | | | n 0.0560 to 0.14 |
| | 24.0 | | | n 0.0671 to 0.15 |
| | 24.5 | | | n 0.0634 to 0.15 |
| | 25.0 | | | n 0.0971 to 0.15 |
| | 26.0 | | | n 0.1307 to 0.18 |
| | 26.5 | | | n 0.1089 to 0.15 |
| | 30.0 | | | n 0.90 to 0.6 |
| | 13.5 | | | n 0.0407 to 0.0700 |
| | 14.0 | | | n 0.0356 to 0.0700 |
| | 14.3 | | | n 0.0439 to 0.0700 |
| | 14.6 | | | n 0.0297 to 0.0700 |
| | 15.0 | | | n 0.0299 to 0.0700 |
| | 15.3 | | | n 0.0299 to 0.0700 |
| | 23.0 | | | n 1.0013 to 0.9000 |
| | 24.0 | | | n 1.1486 to 0.9000 |
| | 25.0 | | | n 0.7635 to 0.9000 |

Table 3.1 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | |
|---|----|-------------|--------|-------------|------|--------|--------|--------|-------|--------|-------|------|
| Transect 1 | | | | | | | | | | | | |
| | | WSE (ft) | | 98.40 | | 98.69 | | 98.80 | | 99.11 | | |
| | | Disch (cfs) | | 37.00 | | 92.50 | | 128.00 | | 290.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * Rev | * Orig | Rev | Orig | Rev | Orig | Rev |
| * | 1 | 0.00 | 100.96 | | | | | | | | | |
| * | 2 | 0.10 | 98.40 | | | | 0.01 | 0.07 | 0.02 | 0.10 | 0.04 | 0.24 |
| * | 3 | 1.50 | 97.70 | 0.02 | 0.02 | 0.07 | 0.03 | 0.15 | 0.04 | 0.19 | 0.06 | 0.37 |
| * | 4 | 2.50 | 97.30 | 0.05 | 0.04 | 0.10 | 0.07 | 0.19 | 0.08 | 0.24 | 0.14 | 0.44 |
| * | 5 | 3.50 | 97.25 | 0.06 | 0.05 | 0.10 | 0.08 | 0.19 | 0.10 | 0.25 | 0.16 | 0.45 |
| | 6 | 4.50 | 97.25 | 0.15 | 0.13 | 0.17 | 0.21 | 0.32 | 0.25 | 0.40 | 0.41 | 0.74 |
| | 7 | 5.50 | 97.00 | 0.08 | 0.07 | 0.11 | 0.11 | 0.22 | 0.13 | 0.27 | 0.21 | 0.49 |
| | 8 | 6.50 | 96.90 | 0.40 | 0.35 | 0.44 | 0.54 | 0.83 | 0.65 | 1.03 | 1.03 | 1.84 |
| | 9 | 7.50 | 96.75 | 0.73 | 0.64 | 0.81 | 0.98 | 1.49 | 1.16 | 1.86 | 1.84 | 3.30 |
| | 10 | 8.50 | 96.60 | 1.41 | 1.24 | 1.56 | 1.88 | 2.86 | 2.22 | 3.56 | 3.50 | 6.27 |
| | 11 | 9.50 | 97.10 | 1.73 | 1.51 | 0.69 | 2.39 | 1.31 | 2.85 | 1.65 | 4.61 | 2.97 |
| | 12 | 10.50 | 96.95 | 0.67 | 0.59 | 0.74 | 0.92 | 1.39 | 1.09 | 1.74 | 1.74 | 3.11 |
| | 13 | 11.50 | 96.80 | 0.35 | 0.31 | 0.39 | 0.47 | 0.72 | 0.56 | 0.90 | 0.89 | 1.59 |
| | 14 | 12.50 | 96.70 | 0.87 | 0.76 | 0.96 | 1.17 | 1.77 | 1.38 | 2.21 | 2.19 | 3.91 |
| | 15 | 13.50 | 96.60 | 1.42 | 1.24 | 1.57 | 1.90 | 2.88 | 2.24 | 3.59 | 3.53 | 6.31 |
| | 16 | 14.50 | 96.95 | 1.76 | 1.54 | 1.95 | 2.40 | 3.65 | 2.85 | 4.58 | 4.57 | 8.18 |
| | 17 | 15.50 | 96.30 | 1.89 | 1.66 | 2.10 | 2.49 | 3.78 | 2.92 | 4.69 | 4.57 | 8.17 |
| | 18 | 16.50 | 97.20 | 1.39 | 1.21 | 1.53 | 1.94 | 2.95 | 2.32 | 3.72 | 3.77 | 6.75 |
| | 19 | 17.50 | 97.40 | 1.58 | 1.38 | 1.74 | 2.26 | 3.44 | 2.73 | 4.37 | 4.50 | 8.06 |
| * | 20 | 18.00 | 97.55 | 3.30 | 2.87 | 0.73 | 4.85 | 1.49 | 5.89 | 1.91 | 9.86 | 3.57 |
| * | 21 | 18.50 | 97.60 | 0.91 | 0.79 | 1.41 | 1.35 | 2.89 | 1.64 | 3.72 | 2.77 | 7.00 |
| * | 22 | 19.00 | 98.35 | 3.00 | 1.95 | * 0.11 | 13.03 | 0.94 | 18.05 | 1.38 | 36.96 | 3.17 |
| * | 23 | 19.50 | 98.35 | 3.00 | 1.95 | * 0.16 | 13.03 | 1.32 | 18.05 | 1.93 | 36.96 | 4.44 |
| * | 24 | 20.00 | 98.35 | 3.02 | 1.96 | * 0.16 | 13.12 | 1.32 | 18.17 | 1.93 | 37.20 | 4.44 |
| * | 25 | 20.50 | 98.30 | 2.84 | 2.19 | * 0.31 | 8.51 | 1.45 | 11.52 | 2.07 | 22.95 | 4.63 |
| * | 26 | 21.00 | 98.30 | 2.94 | 2.26 | * 0.38 | 8.81 | 1.81 | 11.93 | 2.59 | 23.75 | 5.78 |
| * | 27 | 21.50 | 98.15 | 3.53 | 2.96 | 0.78 | 7.13 | 2.25 | 9.23 | 3.09 | 17.29 | 6.47 |
| * | 28 | 22.00 | 97.60 | 3.63 | 3.15 | 1.76 | 5.40 | 3.62 | 6.56 | 4.65 | 11.05 | 8.75 |
| | 29 | 22.50 | 96.60 | 1.49 | 1.31 | 1.65 | 1.99 | 3.02 | 2.35 | 3.76 | 3.70 | 6.62 |
| * | 30 | 23.00 | 97.10 | 2.62 | 2.29 | 1.96 | 3.62 | 3.73 | 4.32 | 4.70 | 6.97 | 8.46 |
| * | 31 | 23.50 | 97.05 | 2.30 | 2.01 | 2.01 | 3.17 | 3.81 | 3.77 | 4.79 | 6.07 | 8.60 |
| * | 32 | 24.00 | 97.05 | 2.18 | 1.91 | 2.01 | 3.00 | 3.81 | 3.57 | 4.79 | 5.75 | 8.60 |
| | 33 | 24.50 | 96.90 | 1.30 | 1.14 | 1.44 | 1.77 | 2.69 | 2.10 | 3.36 | 3.35 | 6.00 |
| | 34 | 25.00 | 97.10 | 1.65 | 1.44 | 1.46 | 2.28 | 2.77 | 2.72 | 3.49 | 4.39 | 6.29 |
| | 35 | 25.50 | 97.40 | 0.51 | 0.44 | 0.56 | 0.73 | 1.11 | 0.88 | 1.41 | 1.45 | 2.60 |
| | 36 | 26.00 | 98.10 | 0.04 | 0.03 | 0.04 | 0.08 | 0.12 | 0.10 | 0.16 | 0.18 | 0.32 |
| * | 37 | 26.50 | 98.35 | 0.01 | 0.01 | 0.01 | 0.04 | 0.07 | 0.06 | 0.11 | 0.12 | 0.25 |
| | 38 | 27.00 | 98.40 | | | | 1.21 | 1.83 | 1.72 | 2.76 | 3.64 | 6.56 |
| | 39 | 27.50 | 98.15 | 0.91 | 0.76 | 0.96 | 1.84 | 2.79 | 2.38 | 3.82 | 4.46 | 8.01 |
| * | 40 | 28.00 | 98.38 | 0.50 | 0.08 | * 0.01 | 3.77 | 1.24 | 5.31 | 1.85 | 11.08 | 4.32 |
| * | 41 | 28.50 | 98.15 | 2.81 | 2.36 | 0.62 | 5.68 | 1.80 | 7.35 | 2.47 | 13.77 | 5.18 |
| * | 42 | 29.00 | 98.10 | 2.46 | 2.08 | 0.71 | 4.67 | 1.91 | 5.98 | 2.60 | 11.04 | 5.36 |
| * | 43 | 29.50 | 98.10 | 0.83 | 0.70 | 0.89 | 1.57 | 2.39 | 2.02 | 3.24 | 3.72 | 6.69 |
| * | 44 | 30.00 | 98.10 | 0.20 | 0.17 | 0.89 | 0.38 | 2.39 | 0.49 | 3.24 | 0.90 | 6.69 |
| * | 45 | 31.00 | 98.15 | 0.27 | 0.23 | 0.62 | 0.55 | 1.80 | 0.71 | 2.47 | 1.32 | 5.18 |
| * | 46 | 32.00 | 98.05 | 2.81 | 2.39 | 0.99 | 5.08 | 2.53 | 6.45 | 3.40 | 11.74 | 6.91 |
| * | 47 | 33.00 | 98.15 | 3.07 | 2.57 | 0.78 | 6.20 | 2.25 | 8.03 | 3.09 | 15.04 | 6.47 |
| | 48 | 34.00 | 95.40 | 2.29 | 2.01 | 2.54 | 2.95 | 4.47 | 3.43 | 5.50 | 5.25 | 9.38 |
| * | 49 | 34.85 | 98.30 | 0.78 | 0.60 | 0.38 | 2.34 | 1.81 | 3.16 | 2.59 | 6.30 | 5.78 |
| * | 50 | 35.50 | 98.35 | 0.01 | 0.01 | 0.01 | 0.04 | 0.07 | 0.06 | 0.11 | 0.12 | 0.25 |
| | 51 | 36.00 | 98.35 | 0.05 | 0.03 | 0.04 | 0.22 | 0.33 | 0.30 | 0.48 | 0.62 | 1.11 |
| | 52 | 36.20 | 98.40 | | | | 0.20 | 0.30 | 0.28 | 0.45 | 0.59 | 1.06 |
| | 53 | 37.60 | 98.36 | | 0.03 | 0.03 | 0.21 | 0.32 | 0.30 | 0.48 | 0.61 | 1.10 |
| | 54 | 40.90 | 98.50 | | | | 0.15 | 0.22 | 0.23 | 0.37 | 0.53 | 0.96 |
| | 55 | 41.20 | 98.80 | | | | | | 0.01 | 0.02 | 0.34 | 0.62 |
| | 56 | 44.20 | 100.57 | | | | | | | | | |
| | 57 | 44.30 | 100.67 | | | | | | | | | |
| Total | | | | | | 6 * | | 19 * | | | | |
| Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%. | | | | | | | | | | | | |

| Table 3.2 - Summary of calibration details for original and revised input decks | | | | | | | | | | | | |
|---|-------|--------|-------|-------------|------|---|-------|---|--------|------|--------|------|
| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | |
| Transect 2 | | | | | | | | | | | | |
| WSE (ft) | | | 97.88 | | | | 98.45 | | 98.68 | | 99.35 | |
| Disch (cfs) | | | 37.00 | | | | 92.50 | | 128.00 | | 290.00 | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev |
| 1 | 0.00 | 101.02 | | | | | | | | | | |
| 2 | 0.10 | 97.82 | | | 0.08 | | 0.08 | | 0.51 | 0.52 | 0.70 | 0.71 |
| 3 | 1.50 | 97.42 | | 0.29 | 0.32 | | 0.32 | | 0.71 | 0.72 | 0.90 | 0.91 |
| 4 | 3.00 | 98.05 | | | | | | | 2.64 | 2.67 | 3.97 | 4.00 |
| 5 | 4.00 | 98.14 | | | | | | | 2.23 | 2.25 | 3.58 | 3.61 |
| 6 | 5.00 | 97.62 | | 1.27 | 1.52 | | 1.54 | * | 4.30 | 4.34 | 5.61 | 5.66 |
| 7 | 6.00 | 96.72 | | 1.83 | 1.91 | | 1.93 | | 3.23 | 3.26 | 3.89 | 3.92 |
| 8 | 7.00 | 96.52 | | 0.72 | 0.75 | | 0.75 | | 1.22 | 1.24 | 1.46 | 1.47 |
| 9 | 8.00 | 96.42 | | 1.18 | 1.22 | | 1.23 | | 1.97 | 1.99 | 2.35 | 2.37 |
| 10 | 8.50 | 96.42 | | 1.31 | 1.35 | | 1.37 | | 2.19 | 2.21 | 2.60 | 2.63 |
| 11 | 9.00 | 96.22 | | 0.85 | 0.88 | | 0.89 | | 1.39 | 1.40 | 1.64 | 1.65 |
| 12 | 9.50 | 96.22 | | 1.30 | 1.34 | | 1.35 | | 2.12 | 2.14 | 2.50 | 2.52 |
| 13 | 10.00 | 96.12 | | 1.13 | 1.16 | | 1.17 | | 1.82 | 1.84 | 2.14 | 2.16 |
| 14 | 10.50 | 96.92 | | 2.04 | 2.14 | | 2.16 | | 3.80 | 3.83 | 4.61 | 4.65 |
| 15 | 11.50 | 97.22 | | 1.83 | 1.96 | | 1.98 | | 3.86 | 3.90 | 4.79 | 4.83 |
| 16 | 12.20 | 96.22 | | 1.04 | 1.07 | | 1.08 | | 1.69 | 1.71 | 2.00 | 2.02 |
| 17 | 13.00 | 96.22 | | 2.41 | 2.48 | | 2.51 | | 3.93 | 3.96 | 4.64 | 4.68 |
| 18 | 13.50 | 96.62 | | 2.97 | 3.09 | | 3.12 | | 5.14 | 5.19 | 6.15 | 6.21 |
| 19 | 14.00 | 96.82 | | 1.41 | 1.47 | | 1.49 | | 2.55 | 2.58 | 3.08 | 3.11 |
| 20 | 15.50 | 95.82 | | 0.32 | 0.33 | | 0.33 | | 0.50 | 0.51 | 0.59 | 0.59 |
| 21 | 16.00 | 96.22 | | 1.12 | 1.15 | | 1.17 | | 1.83 | 1.84 | 2.16 | 2.17 |
| 22 | 16.50 | 96.52 | | 1.23 | 1.27 | | 1.29 | | 2.09 | 2.11 | 2.49 | 2.51 |
| 23 | 17.00 | 96.47 | | 1.48 | 1.53 | | 1.55 | | 2.50 | 2.52 | 2.97 | 3.00 |
| 24 | 17.50 | 96.47 | | 1.13 | 1.17 | | 1.18 | | 1.91 | 1.92 | 2.27 | 2.29 |
| 25 | 17.60 | 95.52 | | 0.35 | 0.36 | | 0.36 | | 0.54 | 0.54 | 0.62 | 0.63 |
| 26 | 18.00 | 95.47 | | 0.75 | 0.77 | | 0.77 | | 1.15 | 1.16 | 1.33 | 1.34 |
| 27 | 18.50 | 95.37 | | 0.72 | 0.74 | | 0.74 | | 1.09 | 1.10 | 1.27 | 1.28 |
| 28 | 19.00 | 95.37 | | 0.75 | 0.77 | | 0.77 | | 1.14 | 1.15 | 1.32 | 1.33 |
| 29 | 19.50 | 95.77 | | 0.80 | 0.82 | | 0.83 | | 1.25 | 1.26 | 1.46 | 1.47 |
| 30 | 20.00 | 95.82 | | 0.85 | 0.87 | | 0.88 | | 1.33 | 1.34 | 1.56 | 1.57 |
| 31 | 20.60 | 95.82 | | 0.61 | 0.63 | | 0.63 | | 0.96 | 0.96 | 1.12 | 1.13 |
| 32 | 21.00 | 95.82 | | 0.31 | 0.32 | | 0.32 | | 0.49 | 0.49 | 0.57 | 0.57 |
| 33 | 21.50 | 95.87 | | 0.18 | 0.18 | | 0.19 | | 0.28 | 0.29 | 0.33 | 0.33 |
| 34 | 22.00 | 95.92 | | 0.31 | 0.32 | | 0.32 | | 0.49 | 0.49 | 0.57 | 0.58 |
| 35 | 22.50 | 96.02 | | 0.80 | 0.82 | | 0.83 | | 1.28 | 1.29 | 1.50 | 1.51 |
| 36 | 23.00 | 96.02 | | 0.75 | 0.77 | | 0.78 | | 1.20 | 1.21 | 1.41 | 1.42 |
| 37 | 23.50 | 96.02 | | 1.38 | 1.42 | | 1.43 | | 2.20 | 2.22 | 2.59 | 2.61 |
| 38 | 24.00 | 96.42 | | 2.05 | 2.12 | | 2.14 | | 3.43 | 3.46 | 4.08 | 4.11 |
| 39 | 24.50 | 96.32 | | 1.82 | 1.88 | | 1.51 | | 3.00 | 2.41 | 3.56 | 2.86 |
| 40 | 25.50 | 96.82 | | 0.05 | 0.05 | | 0.05 | | 0.09 | 0.09 | 0.11 | 0.11 |
| 41 | 26.50 | 97.02 | | | 0.05 | | 0.05 | | 0.08 | 0.08 | 0.10 | 0.10 |
| 42 | 27.30 | 97.32 | | 0.80 | 0.87 | | 0.88 | | 1.80 | 1.82 | 2.26 | 2.28 |
| 43 | 29.45 | 97.82 | | | 0.20 | | 0.20 | | 1.22 | 1.23 | 1.66 | 1.68 |
| 44 | 30.50 | 99.72 | | | | | | | | | | |
| 45 | 33.39 | 100.48 | | | | | | | | | | |
| 46 | 33.42 | 100.52 | | | | | | | | | | |

Total 0 * 1 *

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.3 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | | |
|--|-------|--------|------|--------------|-------|--------|---|-------|------|--------|------|-------|-------|
| Transect 3 | | | | | | | | | | | | | |
| WSE (ft) | | | | 97.87 | | 98.45 | | 98.69 | | 99.36 | | | |
| Disch (cfs) | | | | 37.00 | | 92.5 | | 128 | | 290.00 | | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * Rev | * | Orig | Rev | Orig | Rev | Orig | Rev |
| 1 | 0.00 | 99.35 | | | | | | | | | | 0.02 | 0.07 |
| 2 | 0.10 | 99.26 | | | | | | | | | | 0.12 | 0.13 |
| 3 | 2.60 | 97.80 | | | 0.04 | 0.03 | | 0.25 | 0.22 | 0.36 | 0.31 | 0.80 | 0.66 |
| 4 | 3.50 | 97.90 | | | | | | 0.23 | 0.19 | 0.33 | 0.28 | 0.77 | 0.63 |
| 5 | 4.40 | 97.00 | | 0.24 | 0.20 | 0.18 | | 0.43 | 0.37 | 0.56 | 0.47 | 1.06 | 0.87 |
| 6 | 5.00 | 97.60 | | 0.00 | -0.15 | 0.10 | | -0.48 | 0.32 | -0.66 | 0.43 | -1.37 | 0.88 |
| 7 | 5.50 | 97.45 | | 0.00 | -0.20 | 0.13 | | -0.53 | 0.35 | -0.72 | 0.47 | -1.45 | 0.93 |
| 8 | 6.00 | 97.60 | | -0.15 | -0.15 | 0.12 | | -0.48 | 0.41 | -0.66 | 0.56 | -1.37 | 1.13 |
| 9 | 6.50 | 96.90 | | 0.00 | -0.12 | 0.59 | * | -0.25 | 1.19 | -0.32 | 1.51 | -0.60 | 2.74 |
| 10 | 7.00 | 97.20 | | -0.11 | -0.09 | 0.16 | | -0.22 | 0.37 | -0.28 | 0.48 | -0.55 | 0.91 |
| 11 | 7.50 | 97.25 | | -0.09 | -0.08 | 0.16 | | -0.18 | 0.36 | -0.24 | 0.48 | -0.47 | 0.90 |
| 12 | 8.00 | 97.20 | | -0.02 | -0.02 | 0.45 | * | -0.04 | 1.01 | -0.05 | 1.31 | -0.10 | 2.48 |
| 13 | 8.70 | 97.60 | | 0.18 | 0.17 | 0.97 | * | 0.57 | 3.21 | 0.79 | 4.38 | 1.65 | 8.89 |
| 14 | 9.00 | 97.60 | | 0.08 | 0.08 | 0.63 | * | 0.25 | 2.09 | 0.35 | 2.86 | 0.73 | 5.80 |
| 15 | 9.50 | 95.90 | | 0.77 | 0.62 | 0.79 | | 1.13 | 1.38 | 1.40 | 1.69 | 2.46 | 2.86 |
| 16 | 10.00 | 96.00 | | 3.08 | 2.49 | 2.22 | * | 4.55 | 3.90 | 5.68 | 4.79 | 9.99 | 8.14 |
| 17 | 10.50 | 96.20 | | 2.94 | 2.38 | 2.13 | * | 4.44 | 3.81 | 5.57 | 4.70 | 9.90 | 8.08 |
| 18 | 11.00 | 96.00 | | 1.46 | 1.18 | 1.05 | * | 2.16 | 1.85 | 2.69 | 2.27 | 4.74 | 3.86 |
| 19 | 11.50 | 96.70 | | 2.22 | 1.82 | 2.02 | | 3.65 | 3.88 | 4.65 | 4.88 | 8.56 | 8.70 |
| 20 | 12.00 | 96.80 | | 4.10 | 3.38 | 2.40 | * | 6.90 | 4.73 | 8.84 | 5.98 | 16.43 | 10.75 |
| 21 | 12.50 | 96.85 | | 2.76 | 2.28 | 2.03 | * | 4.71 | 4.03 | 6.05 | 5.11 | 11.30 | 9.24 |
| 22 | 13.00 | 96.85 | | 1.66 | 1.37 | 1.22 | * | 2.83 | 2.43 | 3.64 | 3.08 | 6.79 | 5.56 |
| 23 | 13.50 | 96.80 | | 2.18 | 1.80 | 1.60 | * | 3.67 | 3.14 | 4.70 | 3.97 | 8.74 | 7.14 |
| 24 | 14.00 | 96.50 | | 1.39 | 1.13 | 1.01 | * | 2.19 | 1.88 | 2.78 | 2.34 | 5.03 | 4.11 |
| 25 | 14.50 | 96.40 | | 2.38 | 1.94 | 1.73 | * | 3.70 | 3.17 | 4.66 | 3.94 | 8.39 | 6.85 |
| 26 | 16.00 | 95.40 | | 1.21 | 0.97 | 0.87 | * | 1.71 | 1.46 | 2.11 | 1.78 | 3.61 | 2.94 |
| 27 | 17.00 | 95.20 | | 1.17 | 0.93 | * 0.86 | * | 1.63 | 1.44 | 2.00 | 1.74 | 3.41 | 2.86 |
| 28 | 18.00 | 95.70 | | 3.00 | 2.41 | 2.16 | * | 4.32 | 3.70 | 5.35 | 4.52 | 9.29 | 7.57 |
| 29 | 19.00 | 95.80 | | 0.14 | 0.11 | 0.89 | * | 0.20 | 1.54 | 0.25 | 1.88 | 0.44 | 3.16 |
| 30 | 20.00 | 95.80 | | 0.39 | 0.31 | 0.33 | | 0.57 | 0.57 | 0.70 | 0.70 | 1.23 | 1.18 |
| 31 | 21.00 | 95.90 | | 0.59 | 0.48 | 0.46 | | 0.86 | 0.80 | 1.07 | 0.98 | 1.88 | 1.66 |
| 32 | 22.00 | 96.00 | | 1.04 | 0.84 | 0.75 | * | 1.54 | 1.32 | 1.92 | 1.62 | 3.37 | 2.75 |
| 33 | 23.00 | 96.00 | | 1.22 | 0.98 | 0.88 | * | 1.80 | 1.55 | 2.25 | 1.90 | 3.96 | 3.23 |
| 34 | 24.00 | 95.80 | | 0.32 | 0.26 | 0.30 | | 0.46 | 0.52 | 0.58 | 0.64 | 1.01 | 1.08 |
| 35 | 25.00 | 95.80 | | 1.10 | 0.89 | 0.79 | * | 1.60 | 1.37 | 1.98 | 1.67 | 3.46 | 2.82 |
| 36 | 26.00 | 95.85 | | 0.55 | 0.44 | 0.68 | | 0.80 | 1.17 | 1.00 | 1.44 | 1.74 | 2.42 |
| 37 | 27.00 | 96.20 | | 0.42 | 0.34 | 0.64 | * | 0.63 | 1.14 | 0.80 | 1.41 | 1.41 | 2.42 |
| 38 | 28.00 | 96.30 | | 0.39 | 0.32 | 0.35 | | 0.60 | 0.63 | 0.75 | 0.78 | 1.34 | 1.35 |
| 39 | 29.00 | 96.35 | | 0.88 | 0.71 | 0.64 | * | 1.36 | 1.16 | 1.71 | 1.44 | 3.06 | 2.50 |
| 40 | 29.90 | 97.80 | | | 0.09 | 0.07 | | 0.62 | 0.53 | 0.89 | 0.76 | 1.97 | 1.63 |
| 41 | 31.30 | 99.98 | | | | | | | | | | | |
| 42 | 31.40 | 100.06 | | | | | | | | | | | |
| Total | | | | 1 * | | 22 * | | | | | | | |
| Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20% | | | | | | | | | | | | | |

Table 3.4 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | |
|---|-------|-------|-------|-------------|------|---|-------|---|--------|------|--------|------|
| Transect 4 | | | | | | | | | | | | |
| WSE (ft) | | | 97.28 | | | | 97.91 | | 98.16 | | 98.90 | |
| Disch (cfs) | | | 37.00 | | | | 92.50 | | 128.00 | | 290.00 | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev |
| 1 | 0.00 | 99.23 | | | | | | | | | | |
| 2 | 0.10 | 99.13 | | | | | | | | | | |
| 3 | 2.60 | 97.56 | | | | | | | 0.21 | 0.21 | 0.35 | 0.35 |
| 4 | 4.00 | 97.26 | | | 0.03 | | 0.02 | | 0.32 | 0.33 | 0.46 | 0.46 |
| 5 | 5.00 | 95.26 | | 0.00 | 0.52 | * | 0.52 | * | 0.83 | 0.84 | 1.00 | 1.01 |
| 6 | 5.50 | 95.26 | | 0.00 | 0.52 | * | 0.52 | * | 0.83 | 0.84 | 1.00 | 1.01 |
| 7 | 6.00 | 95.76 | | 0.00 | 0.43 | * | 0.43 | * | 0.72 | 0.73 | 0.88 | 0.89 |
| 8 | 6.50 | 97.06 | | 0.00 | 0.12 | | 0.12 | | 0.39 | 0.39 | 0.52 | 0.53 |
| 9 | 7.00 | 97.06 | | 0.00 | 0.12 | | 0.12 | | 0.39 | 0.39 | 0.52 | 0.53 |
| 10 | 8.00 | 96.76 | | 0.23 | 0.21 | | 0.21 | | 0.48 | 0.48 | 0.62 | 0.62 |
| 11 | 9.00 | 96.76 | | 0.64 | 0.58 | | 0.58 | | 1.32 | 1.33 | 1.71 | 1.72 |
| 12 | 10.00 | 96.46 | | 0.79 | 0.71 | | 0.71 | | 1.39 | 1.40 | 1.76 | 1.77 |
| 13 | 11.00 | 96.36 | | 1.52 | 1.36 | | 1.15 | * | 2.59 | 2.20 | 3.25 | 2.75 |
| 14 | 11.50 | 96.16 | | 2.05 | 1.83 | | 1.84 | | 3.32 | 3.34 | 4.11 | 4.13 |
| 15 | 12.00 | 96.46 | | 2.21 | 1.98 | | 1.99 | | 3.90 | 3.92 | 4.92 | 4.94 |
| 16 | 12.50 | 96.46 | | 2.60 | 2.33 | | 2.34 | | 4.59 | 4.62 | 5.78 | 5.81 |
| 17 | 13.00 | 96.36 | | 2.19 | 1.96 | | 1.97 | | 3.74 | 3.76 | 4.68 | 4.70 |
| 18 | 14.00 | 96.26 | | 1.79 | 1.60 | | 1.61 | | 2.97 | 2.99 | 3.69 | 3.71 |
| 19 | 15.00 | 96.16 | | 2.40 | 2.14 | | 2.15 | | 3.88 | 3.91 | 4.81 | 4.83 |
| 20 | 16.00 | 95.56 | | 0.22 | 0.20 | | 0.20 | | 0.32 | 0.33 | 0.39 | 0.39 |
| 21 | 17.00 | 94.86 | | 1.46 | 1.29 | | 1.30 | | 2.03 | 2.05 | 2.43 | 2.44 |
| 22 | 17.50 | 94.96 | | 1.97 | 1.74 | | 1.75 | | 2.76 | 2.78 | 3.30 | 3.32 |
| 23 | 18.00 | 94.66 | | 1.53 | 1.35 | | 1.36 | | 2.11 | 2.12 | 2.51 | 2.52 |
| 24 | 18.50 | 95.06 | | 0.17 | 0.15 | | 0.15 | | 0.23 | 0.23 | 0.28 | 0.28 |
| 25 | 19.00 | 95.16 | | 0.71 | 0.63 | | 0.63 | | 1.01 | 1.02 | 1.21 | 1.22 |
| 26 | 19.50 | 95.56 | | 1.22 | 1.08 | | 1.09 | | 1.80 | 1.81 | 2.18 | 2.19 |
| 27 | 20.00 | 96.06 | | 0.44 | 0.39 | | 0.39 | | 0.70 | 0.70 | 0.86 | 0.86 |
| 28 | 20.50 | 95.26 | | 0.61 | 0.54 | | 0.54 | | 0.87 | 0.88 | 1.05 | 1.06 |
| 29 | 21.00 | 95.86 | | 0.84 | 0.75 | | 0.75 | | 1.29 | 1.29 | 1.57 | 1.58 |
| 30 | 21.50 | 95.56 | | 0.29 | 0.26 | | 0.26 | | 0.43 | 0.43 | 0.52 | 0.52 |
| 31 | 22.00 | 95.46 | | 0.17 | 0.15 | | 0.15 | | 0.25 | 0.25 | 0.30 | 0.30 |
| 32 | 22.50 | 95.66 | | 0.16 | 0.14 | | 0.14 | | 0.24 | 0.24 | 0.29 | 0.29 |
| 33 | 23.00 | 95.76 | | 0.22 | 0.20 | | 0.20 | | 0.33 | 0.33 | 0.40 | 0.41 |
| 34 | 23.50 | 95.86 | | 0.21 | 0.19 | | 0.19 | | 0.32 | 0.32 | 0.39 | 0.40 |
| 35 | 24.00 | 96.36 | | 0.31 | 0.28 | | 0.28 | | 0.53 | 0.53 | 0.66 | 0.67 |
| 36 | 24.50 | 95.76 | | 2.16 | 1.92 | | 1.93 | | 3.26 | 3.28 | 3.97 | 3.99 |
| 37 | 25.00 | 95.56 | | 3.58 | 3.18 | | 3.20 | | 5.27 | 5.31 | 6.39 | 6.42 |
| 38 | 25.50 | 94.96 | | 2.68 | 2.37 | | 2.39 | | 3.75 | 3.78 | 4.49 | 4.51 |
| 39 | 26.00 | 95.26 | | 1.10 | 0.98 | | 0.98 | | 1.57 | 1.59 | 1.89 | 1.90 |
| 40 | 26.50 | 95.86 | | 1.11 | 0.99 | | 0.99 | | 1.70 | 1.71 | 2.08 | 2.09 |
| 41 | 27.00 | 95.66 | | 1.15 | 1.02 | | 1.03 | | 1.71 | 1.72 | 2.08 | 2.09 |
| 42 | 27.50 | 95.66 | | 1.15 | 1.02 | | 1.03 | | 1.71 | 1.72 | 2.08 | 2.09 |
| 43 | 28.00 | 95.46 | | 1.13 | 1.00 | | 1.01 | | 1.65 | 1.66 | 1.99 | 2.00 |
| 44 | 28.50 | 95.16 | | 0.34 | 0.30 | | 0.30 | | 0.48 | 0.49 | 0.58 | 0.58 |
| 45 | 29.00 | 95.36 | | 0.79 | 0.70 | | 0.70 | | 1.14 | 1.15 | 1.37 | 1.38 |
| 46 | 30.00 | 95.46 | | 0.62 | 0.55 | | 0.55 | | 0.90 | 0.91 | 1.09 | 1.10 |
| 47 | 31.00 | 95.76 | | 0.52 | 0.46 | | 0.46 | | 0.78 | 0.79 | 0.96 | 0.96 |
| 48 | 32.00 | 95.96 | | 0.45 | 0.40 | | 0.40 | | 0.70 | 0.70 | 0.86 | 0.86 |
| 49 | 33.00 | 96.36 | | 0.23 | 0.21 | | 0.21 | | 0.39 | 0.39 | 0.49 | 0.49 |
| 50 | 34.00 | 96.66 | | 0.23 | 0.21 | | 0.21 | | 0.45 | 0.45 | 0.57 | 0.57 |
| 51 | 34.80 | 96.76 | | 0.24 | 0.22 | | 0.22 | | 0.50 | 0.50 | 0.64 | 0.65 |
| 52 | 35.00 | 96.96 | | 0.02 | 0.02 | | 0.02 | | 0.05 | 0.05 | 0.07 | 0.07 |
| 53 | 36.20 | 97.26 | | | 0.00 | | 0.00 | | 0.04 | 0.04 | 0.06 | 0.06 |
| 54 | 36.35 | 97.64 | | | | | | | 0.02 | 0.02 | 0.04 | 0.04 |
| 55 | 41.10 | 99.07 | | | | | | | | | 0.10 | 0.10 |
| 56 | 41.18 | 99.16 | | | | | | | | | | |

Total

3 * 4 *

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20

| Table 3.5 - Summary of calibration details for original and revised input decks | | | | | | | | | | | | |
|--|----|-------|-------|-------------|------|---|-------|------|--------|------|--------|------|
| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | |
| Transect 5 | | | | | | | | | | | | |
| WSE (ft) | | | 97.31 | | | | 97.89 | | 98.13 | | 98.78 | |
| Disch (cfs) | | | 37.00 | | | | 92.50 | | 128.00 | | 290.00 | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev |
| | 1 | 0.00 | 99.23 | | | | | | | | | |
| | 2 | 0.10 | 99.06 | | | | | | | | | |
| | 3 | 3.30 | 98.83 | | | | | | | | | |
| | 4 | 3.40 | 97.27 | | | | | | | | | |
| * | 5 | 4.00 | 96.32 | 0.15 | 0.02 | | 0.05 | * | 0.17 | 0.48 | 0.25 | 0.70 |
| | 6 | 5.00 | 98.98 | | | | | | 0.31 | 0.88 | 0.41 | 1.16 |
| | 7 | 6.00 | 97.49 | | | | | | 0.22 | 0.71 | 0.37 | 1.15 |
| | 8 | 7.00 | 97.35 | | | | | | 0.27 | 0.87 | 0.42 | 1.32 |
| * | 9 | 8.00 | 96.42 | 0.25 | 0.23 | | 0.73 | * | 0.53 | 1.69 | 0.71 | 2.23 |
| | 10 | 9.00 | 99.40 | | | | | | | | | |
| | 11 | 10.00 | 99.62 | | | | | | | | | |
| * | 12 | 11.00 | 95.47 | 0.13 | 0.12 | | 0.60 | * | 0.23 | 1.18 | 0.30 | 1.50 |
| * | 13 | 12.00 | 94.92 | 2.28 | 2.01 | | 1.42 | * | 3.95 | 2.71 | 5.02 | 3.40 |
| | 14 | 12.50 | 94.87 | 1.31 | 1.15 | | 1.41 | | 2.26 | 2.68 | 2.87 | 3.36 |
| | 15 | 13.00 | 94.77 | 0.99 | 0.87 | | 1.07 | | 1.70 | 2.01 | 2.16 | 2.52 |
| | 16 | 13.50 | 94.42 | 0.80 | 0.70 | | 0.86 | | 1.35 | 1.60 | 1.70 | 1.99 |
| * | 17 | 14.00 | 95.17 | 5.34 | 4.71 | | 2.20 | * | 9.40 | 4.26 | 12.00 | 5.37 |
| * | 18 | 14.50 | 95.27 | 5.39 | 4.76 | | 2.13 | * | 9.56 | 4.15 | 12.23 | 5.24 |
| | 19 | 15.00 | 94.72 | 1.73 | 1.52 | | 1.86 | | 2.96 | 3.51 | 3.75 | 4.39 |
| * | 20 | 15.50 | 94.67 | 2.59 | 2.28 | | 2.17 | * | 4.41 | 4.08 | 5.59 | 5.11 |
| * | 21 | 16.00 | 94.77 | 2.69 | 2.37 | | 2.12 | * | 4.61 | 4.00 | 5.85 | 5.01 |
| * | 22 | 16.50 | 94.72 | 3.33 | 2.93 | | 2.14 | * | 5.70 | 4.04 | 7.22 | 5.06 |
| * | 23 | 17.00 | 95.37 | 3.68 | 3.25 | | 1.77 | * | 6.58 | 3.47 | 8.44 | 4.39 |
| | 24 | 17.50 | 95.27 | 1.53 | 1.35 | | 1.65 | | 2.71 | 3.21 | 3.47 | 4.06 |
| | 25 | 18.00 | 95.07 | 0.56 | 0.49 | | 0.60 | | 0.98 | 1.16 | 1.25 | 1.46 |
| | 26 | 18.50 | 94.77 | 0.28 | 0.25 | | 0.30 | | 0.48 | 0.57 | 0.61 | 0.71 |
| * | 27 | 19.00 | 95.27 | 0.15 | 0.13 | | 0.37 | * | 0.27 | 0.71 | 0.34 | 0.90 |
| * | 28 | 19.50 | 95.52 | 0.12 | 0.11 | | 0.29 | * | 0.22 | 0.58 | 0.28 | 0.74 |
| * | 29 | 20.00 | 95.87 | 0.14 | 0.12 | | 0.34 | * | 0.26 | 0.70 | 0.34 | 0.90 |
| * | 30 | 20.50 | 95.42 | 0.11 | 0.10 | | 0.30 | * | 0.20 | 0.60 | 0.25 | 0.76 |
| * | 31 | 21.00 | 95.47 | 0.17 | 0.15 | | 0.40 | * | 0.31 | 0.79 | 0.39 | 1.00 |
| * | 32 | 22.00 | 95.47 | 0.23 | 0.20 | | 0.60 | * | 0.41 | 1.18 | 0.53 | 1.50 |
| * | 33 | 23.00 | 95.42 | 0.34 | 0.30 | | 1.22 | * | 0.61 | 2.39 | 0.78 | 3.03 |
| * | 34 | 24.00 | 95.27 | 0.16 | 0.14 | | 1.28 | * | 0.28 | 2.49 | 0.36 | 3.15 |
| * | 35 | 25.00 | 95.12 | 0.06 | 0.05 | | 0.34 | * | 0.11 | 0.65 | 0.13 | 0.81 |
| * | 36 | 26.00 | 95.27 | 0.01 | 0.01 | | 0.37 | * | 0.02 | 0.71 | 0.02 | 0.90 |
| * | 37 | 27.00 | 96.72 | 0.10 | 0.09 | | 0.28 | * | 0.25 | 0.73 | 0.34 | 0.98 |
| | 38 | 28.00 | 97.27 | | 0.02 | | 0.05 | | 0.16 | 0.48 | 0.24 | 0.70 |
| | 39 | 29.30 | 97.70 | | | | | | 0.07 | 0.22 | 0.15 | 0.44 |
| | 40 | 32.00 | 98.60 | | | | | | | | | 0.14 |
| | 41 | 32.14 | 99.87 | | | | | | | | | 0.41 |
| Total | | | | 0 * | | | | 16 * | | | | |
| Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20% | | | | | | | | | | | | |

| Table 3.6 - Summary of calibration details for original and revised input decks | | | | | | | | | | | | |
|---|----|-------------|--------|-------------|------|-------|------|--------|------|--------|------|------|
| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | |
| Transect 6 | | | | | | | | | | | | |
| | | WSE (ft) | | 96.91 | | 97.69 | | 98.04 | | 99.14 | | |
| | | Disch (cfs) | | 37.00 | | 92.50 | | 128.00 | | 290.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev |
| | 1 | 0.00 | 101.43 | | | | | | | | | |
| | 2 | 0.50 | 101.04 | | | | | | | | | |
| | 3 | 1.50 | 95.94 | | 2.36 | * | 2.52 | * | 2.71 | 3.02 | 2.98 | 3.34 |
| | 4 | 1.90 | 96.82 | | 0.48 | * | 0.50 | * | 1.70 | 1.89 | 2.07 | 2.32 |
| | 5 | 2.10 | 95.82 | 2.87 | 2.55 | | 2.72 | | 2.83 | 3.16 | 3.09 | 3.46 |
| | 6 | 2.50 | 95.47 | 2.63 | 2.30 | | 2.46 | | 2.38 | 2.66 | 2.55 | 2.86 |
| | 7 | 3.00 | 95.57 | 3.01 | 2.65 | | 2.82 | | 2.78 | 3.11 | 3.00 | 3.36 |
| | 8 | 3.50 | 95.67 | 2.69 | 2.37 | | 2.53 | | 2.54 | 2.84 | 2.76 | 3.09 |
| | 9 | 4.00 | 95.22 | 1.60 | 1.39 | | 1.49 | | 1.39 | 1.55 | 1.48 | 1.65 |
| | 10 | 4.50 | 95.22 | 1.15 | 1.00 | | 1.07 | | 1.00 | 1.11 | 1.06 | 1.19 |
| * | 11 | 5.00 | 95.07 | 0.28 | 0.24 | | 1.31 | * | 0.24 | 1.34 | 0.25 | 1.42 |
| * | 12 | 5.50 | 95.07 | 0.45 | 0.39 | | 0.82 | * | 0.38 | 0.84 | 0.40 | 0.89 |
| | 13 | 6.00 | 95.07 | 1.49 | 1.29 | | 1.38 | | 1.26 | 1.41 | 1.34 | 1.50 |
| | 14 | 6.50 | 96.02 | 1.38 | 1.25 | | 1.33 | | 1.47 | 1.64 | 1.62 | 1.82 |
| | 15 | 7.50 | 96.12 | 1.05 | 0.96 | | 1.02 | | 1.17 | 1.31 | 1.31 | 1.46 |
| | 16 | 8.50 | 96.12 | 1.45 | 1.32 | | 1.41 | | 1.62 | 1.81 | 1.80 | 2.02 |
| | 17 | 9.00 | 96.12 | 1.51 | 1.38 | | 1.47 | | 1.68 | 1.88 | 1.88 | 2.10 |
| | 18 | 9.50 | 96.12 | 3.31 | 3.02 | | 3.22 | | 3.69 | 4.12 | 4.12 | 4.61 |
| * | 19 | 10.00 | 96.12 | 5.48 | 5.00 | | 3.08 | * | 6.11 | 3.95 | 6.81 | 4.42 |
| * | 20 | 10.50 | 96.12 | 6.01 | 5.48 | | 3.08 | * | 6.71 | 3.95 | 7.47 | 4.42 |
| * | 21 | 11.00 | 95.87 | 5.71 | 5.10 | | 3.18 | * | 5.73 | 3.74 | 6.27 | 4.11 |
| | 22 | 11.50 | 95.62 | 4.88 | 4.30 | | 4.59 | | 4.56 | 5.09 | 4.93 | 5.52 |
| | 23 | 12.00 | 95.32 | 3.35 | 2.92 | | 3.12 | | 2.95 | 3.30 | 3.15 | 3.53 |
| | 24 | 12.50 | 96.22 | 3.88 | 3.59 | | 3.82 | | 4.60 | 5.13 | 5.17 | 5.79 |
| | 25 | 13.00 | 96.32 | 2.31 | 2.18 | | 2.31 | | 2.95 | 3.30 | 3.35 | 3.75 |
| | 26 | 13.50 | 96.27 | 2.58 | 2.41 | | 2.56 | | 3.17 | 3.54 | 3.58 | 4.01 |
| * | 27 | 14.00 | 96.22 | 5.24 | 4.84 | | 2.82 | * | 6.21 | 3.78 | 6.98 | 4.27 |
| * | 28 | 14.40 | 96.72 | 2.46 | 3.28 | * | 1.41 | * | 7.54 | 3.43 | 9.03 | 4.13 |
| * | 29 | 15.00 | 95.92 | 1.22 | 1.09 | | 4.31 | * | 1.25 | 5.14 | 1.37 | 5.67 |
| * | 30 | 15.50 | 96.22 | 4.64 | 4.29 | | 2.82 | * | 5.50 | 3.78 | 6.18 | 4.27 |
| * | 31 | 15.70 | 96.17 | 4.85 | 4.45 | | 2.95 | * | 5.57 | 3.87 | 6.23 | 4.34 |
| | 32 | 16.70 | 96.97 | | | | | | 3.37 | 2.34 | 4.28 | 2.99 |
| | 33 | 17.30 | 96.22 | 3.60 | 3.33 | | 3.54 | | 4.26 | 4.76 | 4.79 | 5.37 |
| | 34 | 18.00 | 96.32 | 3.10 | 2.92 | | 3.11 | | 3.96 | 4.42 | 4.49 | 5.04 |
| | 35 | 19.20 | 97.08 | | | | | | 2.30 | 2.56 | 3.04 | 3.41 |
| * | 36 | 20.00 | 96.12 | 0.56 | 0.51 | | 1.23 | * | 0.62 | 1.58 | 0.70 | 1.77 |
| | 37 | 20.50 | 96.02 | 1.34 | 1.21 | | 1.29 | | 1.42 | 1.59 | 1.58 | 1.76 |
| | 38 | 21.00 | 96.22 | 1.18 | 1.09 | | 1.16 | | 1.40 | 1.56 | 1.57 | 1.76 |
| * | 39 | 21.50 | 96.12 | 0.88 | 0.80 | | 1.85 | * | 0.98 | 2.37 | 1.09 | 2.65 |
| | 40 | 22.00 | 96.62 | 1.04 | 1.14 | | 1.20 | | 2.10 | 2.34 | 2.48 | 2.77 |
| | 41 | 22.10 | 96.82 | | 0.52 | * | 0.53 | * | 1.83 | 2.04 | 2.24 | 2.50 |
| | 42 | 24.10 | 98.85 | | | | | | | | | 0.87 |
| | 43 | 24.20 | 100.08 | | | | | | | | | 1.07 |
| | 44 | 25.40 | 100.75 | | | | | | | | | |
| | 45 | 25.44 | 100.77 | | | | | | | | | |
| Total | | | | | 4 | * | 15 | * | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20

| Table 3.7 - Summary of calibration details for original and revised input decks | | | | | | | | | | | | |
|--|----|-------|--------|--------------|-------|--------|-------|--------|-------|--------|-------|------|
| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | |
| Transect 7 | | | | | | | | | | | | |
| WSE (ft) | | | 97.11 | | | 97.58 | | 97.76 | | 98.28 | | |
| Disch (cfs) | | | 37.00 | | | 92.50 | | 128.00 | | 290.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev |
| | 1 | 0.00 | 98.84 | | | | | | | | | |
| | 2 | 0.20 | 98.45 | | | | | | | | | |
| | 3 | 0.50 | 97.66 | | | | | | -0.12 | 0.22 | -0.70 | 1.19 |
| | 4 | 0.90 | 97.47 | | | | -0.10 | 0.19 | -0.24 | 0.45 | -0.83 | 1.42 |
| | 5 | 5.00 | 97.40 | | | | -0.14 | 0.26 | -0.28 | 0.51 | -0.88 | 1.50 |
| | 6 | 7.40 | 97.07 | | | | -0.29 | 0.53 | -0.44 | 0.79 | -1.09 | 1.86 |
| | 7 | 8.30 | 96.97 | 0.00 | -0.03 | 0.06 | -0.32 | 0.60 | -0.48 | 0.87 | -1.15 | 1.96 |
| * | 8 | 9.00 | 96.72 | -0.13 | -0.07 | 0.13 | -0.41 | 0.76 | -0.57 | 1.04 | -1.29 | 2.20 |
| * | 9 | 10.00 | 96.57 | -0.08 | -0.13 | 0.26 | -0.22 | 0.65 | -0.30 | 0.89 | -0.66 | 1.82 |
| * | 10 | 11.00 | 96.27 | 0.02 | -0.08 | 0.25 | 0.05 | 0.78 | 0.06 | 1.03 | 0.14 | 2.03 |
| * | 11 | 12.00 | 95.97 | 0.04 | 0.02 | 0.34 * | 0.09 | 0.90 | 0.12 | 1.17 | 0.24 | 2.22 |
| * | 12 | 13.00 | 95.77 | 0.10 | 0.04 | 0.41 * | 0.21 | 0.97 | 0.28 | 1.25 | 0.57 | 2.35 |
| * | 13 | 13.70 | 95.77 | 0.00 | 0.10 | 0.46 * | 0.25 | 0.97 | 0.32 | 1.25 | 0.65 | 2.35 |
| * | 14 | 14.80 | 96.17 | 0.09 | 0.11 | 0.46 * | 0.21 | 0.82 | 0.28 | 1.08 | 0.58 | 2.09 |
| * | 15 | 16.80 | 94.77 | 0.04 | 0.09 | 0.36 * | 0.08 | 1.30 | 0.10 | 1.64 | 0.19 | 2.94 |
| | 16 | 18.00 | 94.77 | 1.12 | 0.04 | 0.67 * | 2.19 | 2.55 | 2.83 | 3.22 | 5.42 | 5.76 |
| | 17 | 19.00 | 94.67 | 0.73 | 0.70 | 0.85 | 1.42 | 1.65 | 1.83 | 2.08 | 3.50 | 3.72 |
| | 18 | 19.50 | 94.67 | 0.48 | 0.46 | 0.56 | 0.93 | 1.09 | 1.20 | 1.37 | 2.30 | 2.45 |
| | 19 | 20.00 | 94.77 | 0.46 | 0.44 | 0.54 | 0.90 | 1.05 | 1.16 | 1.32 | 2.23 | 2.37 |
| | 20 | 20.50 | 94.87 | 0.31 | 0.30 | 0.36 | 0.61 | 0.71 | 0.79 | 0.90 | 1.52 | 1.61 |
| | 21 | 21.00 | 94.87 | 1.31 | 1.26 | 1.52 | 2.57 | 2.99 | 3.32 | 3.78 | 6.38 | 6.79 |
| | 22 | 21.50 | 94.97 | 1.15 | 1.11 | 1.34 | 2.27 | 2.64 | 2.93 | 3.34 | 5.66 | 6.02 |
| | 23 | 22.00 | 95.07 | 1.39 | 1.34 | 1.62 | 2.77 | 3.22 | 3.59 | 4.09 | 6.96 | 7.40 |
| * | 24 | 22.50 | 95.67 | 3.18 | 3.09 | 1.55 * | 6.70 | 3.23 | 8.81 | 4.15 | 17.59 | 7.75 |
| * | 25 | 23.00 | 95.47 | 3.60 | 3.49 | 1.69 * | 7.41 | 3.45 | 9.70 | 4.42 | 19.14 | 8.15 |
| * | 26 | 23.50 | 94.52 | 1.78 | 1.71 | 2.07 | 3.43 | 3.99 | 4.41 | 5.02 | 8.39 | 8.93 |
| * | 27 | 24.00 | 94.77 | 3.72 | 3.59 | 2.00 * | 7.28 | 3.90 | 9.39 | 4.93 | 18.00 | 8.82 |
| * | 28 | 24.50 | 94.77 | 3.76 | 3.63 | 2.00 * | 7.35 | 3.90 | 9.49 | 4.93 | 18.19 | 8.82 |
| * | 29 | 25.00 | 94.97 | 2.49 | 2.40 | 1.88 * | 4.93 | 3.71 | 6.38 | 4.70 | 12.31 | 8.48 |
| | 30 | 25.50 | 94.87 | 1.44 | 1.39 | 1.68 | 2.83 | 3.30 | 3.66 | 4.17 | 7.04 | 7.49 |
| * | 31 | 26.00 | 94.97 | 1.85 | 1.79 | 1.57 | 3.66 | 3.10 | 4.74 | 3.92 | 9.15 | 7.07 |
| * | 32 | 26.50 | 95.07 | 2.15 | 2.08 | 1.82 | 4.28 | 3.62 | 5.55 | 4.59 | 10.76 | 8.31 |
| | 33 | 27.00 | 95.07 | 1.16 | 1.12 | 1.36 | 2.31 | 2.69 | 3.00 | 3.41 | 5.80 | 6.18 |
| | 34 | 28.00 | 95.47 | 0.30 | 0.29 | 0.35 | 0.62 | 0.72 | 0.81 | 0.92 | 1.59 | 1.70 |
| | 35 | 29.00 | 95.47 | 0.30 | 0.29 | 0.35 | 0.62 | 0.72 | 0.81 | 0.92 | 1.59 | 1.70 |
| * | 36 | 30.00 | 95.62 | 0.14 | 0.14 | 0.37 * | 0.29 | 0.77 | 0.39 | 0.98 | 0.77 | 1.83 |
| | 37 | 30.50 | 97.07 | | 0.01 | 0.03 | 0.12 | 0.31 | 0.18 | 0.46 | 0.45 | 1.08 |
| | 38 | 30.90 | 99.05 | | | | | | | | | |
| | 39 | 34.60 | 97.33 | | | | 0.07 | 0.19 | 0.13 | 0.34 | 0.38 | 0.92 |
| | 40 | 36.10 | 97.52 | | | | 0.03 | 0.07 | 0.09 | 0.23 | 0.33 | 0.80 |
| | 41 | 36.50 | 98.56 | | | | | | | | | |
| | 42 | 37.50 | 97.77 | | | | | | | | 0.25 | 0.61 |
| | 43 | 40.50 | 98.28 | | | | | | | | 0.00 | 0.04 |
| | 44 | 46.80 | 100.54 | | | | | | | | | |
| | 45 | 47.00 | 100.66 | | | | | | | | | |
| Total | | | | | 0 * | 12 * | | | | | | |
| Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20% | | | | | | | | | | | | |

| Table 3.8 - Summary of calibration details for original and revised input decks | | | | | | | | | | | | |
|---|-------|-------|------|------|-------------|-------|------|--------|------|--------|------|-------|
| Calibration details for Lake Creek Study Site 2 | | | | | | | | | | | | |
| Transect 8 | | | | | | | | | | | | |
| WSE (ft) | | 93.60 | | | | 94.25 | | 94.51 | | 95.24 | | |
| Disch (cfs) | | 37.00 | | | | 92.50 | | 128.00 | | 290.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev |
| 1 | 0.00 | 98.19 | | | | | | | | | | |
| 2 | 0.30 | 97.64 | | | | | | | | | | |
| 3 | 0.40 | 96.14 | | | | | | | | | | |
| 4 | 1.00 | 96.17 | | | | | | | | | | |
| 5 | 2.30 | 95.76 | | | | | | | | | | |
| 6 | 2.40 | 93.26 | | | 0.34 | * | 0.40 | * | 1.06 | 1.22 | 1.45 | 1.66 |
| 7 | 3.00 | 93.51 | | | 0.14 | | 0.16 | | 0.87 | 1.00 | 1.25 | 1.43 |
| 8 | 4.00 | 92.92 | | | 0.54 | * | 0.63 | * | 1.29 | 1.49 | 1.70 | 1.95 |
| 9 | 7.76 | 96.64 | | | | | | | | | | |
| 10 | 10.20 | 95.46 | | | | | | | | | | |
| 11 | 10.75 | 93.55 | | | 0.09 | | 0.11 | | 0.84 | 0.97 | 1.21 | 1.39 |
| 12 | 11.20 | 93.05 | | | 0.35 | 0.47 | 0.55 | | 1.21 | 1.39 | 1.61 | 1.84 |
| 13 | 11.60 | 94.01 | | | | | | | 0.86 | 0.99 | 1.65 | 1.89 |
| 14 | 12.30 | 92.55 | | | 1.18 | 1.53 | * | 1.78 | * | 3.23 | 3.72 | 4.15 |
| 15 | 12.50 | 92.55 | | | 1.21 | 1.57 | * | 1.83 | * | 3.31 | 3.81 | 4.26 |
| 16 | 13.00 | 92.70 | | | 1.42 | 1.86 | * | 2.16 | * | 4.08 | 4.69 | 5.28 |
| 17 | 13.50 | 92.45 | | | 1.95 | 2.53 | * | 2.61 | * | 5.21 | 5.32 | 6.65 |
| 18 | 14.00 | 91.70 | | | 3.16 | 4.05 | * | 3.66 | * | 7.53 | 6.72 | 9.38 |
| 19 | 14.30 | 91.35 | | | 2.88 | 3.68 | * | 4.10 | * | 6.66 | 7.33 | 8.23 |
| 20 | 14.60 | 91.45 | | | 4.13 | 5.28 | * | 3.97 | * | 9.62 | 7.16 | 11.92 |
| 21 | 15.00 | 91.00 | | | 4.67 | 5.95 | * | 4.51 | * | 10.56 | 7.91 | 12.97 |
| 22 | 15.30 | 91.00 | | | 4.66 | 5.94 | * | 4.51 | * | 10.53 | 7.91 | 12.95 |
| 23 | 15.60 | 90.55 | | | 1.23 | 1.56 | * | 1.82 | * | 2.72 | 3.13 | 3.32 |
| 24 | 16.00 | 90.65 | | | 0.96 | 1.22 | * | 1.42 | * | 2.13 | 2.45 | 2.61 |
| 25 | 16.30 | 90.65 | | | 1.08 | 1.37 | * | 1.59 | * | 2.39 | 2.75 | 2.92 |
| 26 | 16.60 | 90.75 | | | 0.66 | 0.84 | 0.98 | * | 1.47 | 1.69 | 1.80 | 2.06 |
| 27 | 17.00 | 91.60 | | | 0.38 | 0.49 | 0.57 | | 0.90 | 1.03 | 1.11 | 1.28 |
| 28 | 17.50 | 91.65 | | | 0.33 | 0.42 | 0.49 | | 0.78 | 0.90 | 0.97 | 1.11 |
| 29 | 18.00 | 91.80 | | | 0.43 | 0.55 | 0.64 | * | 1.03 | 1.19 | 1.29 | 1.48 |
| 30 | 18.50 | 91.75 | | | 0.25 | 0.32 | 0.37 | | 0.60 | 0.69 | 0.75 | 0.85 |
| 31 | 19.00 | 91.85 | | | 0.37 | 0.47 | 0.55 | | 0.90 | 1.03 | 1.12 | 1.28 |
| 32 | 19.50 | 90.50 | | | 0.34 | 0.43 | 0.50 | | 0.75 | 0.86 | 0.92 | 1.05 |
| 33 | 20.00 | 90.95 | | | 0.53 | 0.68 | 0.79 | * | 1.19 | 1.37 | 1.47 | 1.68 |
| 34 | 20.50 | 91.00 | | | 0.50 | 0.64 | 0.74 | * | 1.13 | 1.30 | 1.39 | 1.59 |
| 35 | 21.00 | 91.85 | | | 0.26 | 0.33 | 0.39 | | 0.63 | 0.72 | 0.79 | 0.90 |
| 36 | 22.00 | 91.15 | | | 0.27 | 0.34 | 0.40 | | 0.62 | 0.71 | 0.76 | 0.87 |
| 37 | 23.00 | 91.25 | | | 0.13 | 0.17 | 0.33 | | 0.30 | 0.58 | 0.37 | 0.72 |
| 38 | 24.00 | 91.35 | | | 0.11 | 0.14 | 0.32 | * | 0.25 | 0.57 | 0.31 | 0.70 |
| 39 | 25.00 | 91.65 | | | 0.15 | 0.19 | 0.29 | | 0.36 | 0.53 | 0.44 | 0.66 |
| 40 | 26.00 | 91.75 | | | 0.45 | 0.58 | 0.67 | * | 1.08 | 1.24 | 1.34 | 1.54 |
| 41 | 27.00 | 92.25 | | | 0.54 | 0.70 | 0.81 | * | 1.38 | 1.59 | 1.75 | 2.01 |
| 42 | 28.00 | 92.45 | | | 0.20 | 0.26 | 0.30 | | 0.53 | 0.61 | 0.68 | 0.78 |
| 43 | 28.45 | 93.55 | | | | 0.03 | 0.04 | | 0.28 | 0.33 | 0.41 | 0.47 |
| 44 | 28.80 | 96.15 | | | | | | | | | | |
| 45 | 30.80 | 97.44 | | | | | | | | | | |
| 46 | 30.90 | 97.56 | | | | | | | | | | |
| Total | | | | | 14 | * | 17 | * | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 2

| Table 4. Summary of Calibration Details, Lake Creek Study Site 2, High Flow Deck | | | | | | | | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| Trans No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| DISCHARGE | | | | | | | | |
| Meas. | 20 | 19 | 27 | 20 | 23 | 25 | 25 | 20 |
| | 42 | 33 | 43 | 36 | 41 | 37 | 37 | 28 |
| | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| Calc. | 21 | 23 | 26 | 26 | 29 | 25 | 27 | 20 |
| | 41 | 34 | 49 | 39 | 41 | 36 | 38 | 28 |
| | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| Given | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |
| Stage (given) | | | | | | | | |
| | 98.21 | 97.65 | 97.60 | 97.00 | 97.06 | 96.65 | 96.91 | 93.32 |
| | 98.40 | 97.82 | 97.80 | 97.26 | 97.27 | 96.82 | 97.07 | 93.55 |
| | 98.80 | 98.70 | 98.71 | 98.17 | 98.14 | 98.07 | 97.75 | 94.52 |
| Plotting Stage (given) | | | | | | | | |
| | 2.31 | 2.28 | 2.20 | 2.14 | 2.44 | 1.38 | 2.19 | 2.72 |
| | 2.50 | 2.45 | 2.40 | 2.40 | 2.65 | 1.55 | 2.35 | 2.95 |
| | 2.90 | 3.33 | 3.31 | 3.31 | 3.52 | 2.80 | 3.03 | 3.92 |
| Ratio of Modeled vs Predicted Discharge (given) | | | | | | | | |
| Based on Stage-Discharge Relationship | | | | | | | | |
| | 1.042 | 0.915 | 0.934 | 0.974 | 0.944 | 0.894 | 0.933 | 0.941 |
| | 0.939 | 1.116 | 1.091 | 1.036 | 1.077 | 1.143 | 1.092 | 1.081 |
| | 1.022 | 0.979 | 0.982 | 0.991 | 0.983 | 0.978 | 0.982 | 0.983 |
| Mean Error of Stage/Discharge Relationship (given) | | | | | | | | |
| | 4.2066 | 7.2592 | 5.7604 | 2.3449 | 4.9435 | 8.8451 | 5.8385 | 5.1562 |
| Stage/Discharge Relationship (S vs Q) $S=A*Q^{**}B+SZF$ (given) | | | | | | | | |
| A= | 1.5689 | 1.1193 | 1.0348 | 0.9816 | 1.2475 | 0.3531 | 1.1838 | 1.3911 |
| B= | 0.1268 | 0.2238 | 0.2387 | 0.2501 | 0.2131 | 0.4245 | 0.1946 | 0.2128 |
| SZF= | 95.90 | 95.37 | 95.40 | 94.86 | 94.62 | 95.27 | 94.72 | 90.60 |
| B Coefficient log/log Relationship (given) | | | | | | | | |
| | 7.884 | 4.469 | 4.189 | 3.999 | 4.694 | 2.356 | 5.138 | 4.700 |

DRAFT

LAKE CREEK INSTREAM FLOW REPORT

CALIBRATION REPORT

STUDY SITE 3, TRANSECTS 1 – 6

3 VELOCITY SET CALIBRATION

Prepared for:

Dr. Hal Beecher
Washington Department of Fish and Wildlife Service

Prepared by:

EES Consulting, Inc.

For:

Energy Northwest

MARCH 16, 2007

Table 1a. Velocity Adjustment Factors for Lake Creek Study Site 3.

| Flow | Trans 1 | | Trans 2 | | Trans 3 | |
|-------|---------|--------|---------|--------|---------|--------|
| | Orig | Rev | Orig | Rev | Orig | Rev |
| 2.00 | 0.6845 | 0.7258 | 0.8396 | 0.9100 | 0.8714 | 0.8733 |
| 3.00 | 0.7944 | 0.8536 | 0.9652 | 1.0065 | 0.8873 | 0.9222 |
| 4.00 | 0.8408 | 0.9361 | 0.9974 | 1.0114 | 0.8769 | 0.9604 |
| 5.00 | 0.8706 | 0.9990 | 1.0112 | 1.0065 | 0.8890 | 0.9918 |
| 6.00 | 0.8942 | 0.9957 | 1.0273 | 1.0098 | 0.9040 | 0.9619 |
| 7.00 | 0.9139 | 1.0074 | 1.0407 | 1.0141 | 0.9197 | 0.9655 |
| 8.00 | 0.9238 | 1.0229 | 1.0529 | 1.0196 | 0.9348 | 0.9713 |
| 9.00 | 0.9319 | 1.0289 | 1.0621 | 1.0238 | 0.9491 | 0.9780 |
| 10.00 | 0.9317 | 1.0350 | 1.0690 | 1.0271 | 0.9624 | 0.9851 |
| 12.00 | 0.9415 | 1.0433 | 1.0773 | 1.0316 | 0.9859 | 0.9986 |
| 14.00 | 0.9492 | 1.0484 | 1.0797 | 1.0334 | 1.0051 | 1.0105 |
| 16.00 | 0.9525 | 1.0476 | 1.0767 | 1.0327 | 1.0209 | 1.0210 |
| 18.00 | 0.9537 | 1.0457 | 1.0699 | 1.0303 | 1.0327 | 1.0296 |
| 20.00 | 0.9531 | 1.0426 | 1.0605 | 1.0266 | 1.0389 | 1.0344 |
| 25.00 | 0.9249 | 1.0293 | 1.0278 | 1.0124 | 1.0389 | 1.0340 |
| 30.00 | 0.8663 | 1.0036 | 0.9830 | 0.9909 | 1.0211 | 1.0199 |
| 35.00 | 0.8060 | 0.9765 | 0.9333 | 0.9667 | 0.9863 | 0.9905 |
| 40.00 | 0.7480 | 0.9490 | 0.8838 | 0.9429 | 0.9452 | 0.9563 |
| 45.00 | 0.6938 | 0.9199 | 0.8361 | 0.9200 | 0.9033 | 0.9232 |
| 50.00 | 0.6453 | 0.8927 | 0.7914 | 0.8985 | 0.8631 | 0.8932 |
| 55.00 | 0.6020 | 0.8682 | 0.7496 | 0.8782 | 0.8251 | 0.8665 |
| 60.00 | 0.5627 | 0.8466 | 0.7108 | 0.8593 | 0.7892 | 0.8427 |
| 65.00 | 0.5268 | 0.8276 | 0.6749 | 0.8418 | 0.7554 | 0.8214 |
| 70.00 | 0.4937 | 0.8108 | 0.6418 | 0.8256 | 0.7234 | 0.8023 |
| 75.00 | 0.4603 | 0.7959 | 0.6110 | 0.8105 | 0.6931 | 0.7850 |
| 80.00 | 0.4298 | 0.7824 | 0.5807 | 0.7964 | 0.6643 | 0.7692 |
| 85.00 | 0.4019 | 0.7700 | 0.5534 | 0.7832 | 0.6369 | 0.7547 |

Table 1b Velocity Adjustment Factors for Lake Creek Study Site 3.

| Flow | Trans 4 | | Trans 5 | | Trans 6 | |
|-------|---------|--------|---------|--------|---------|--------|
| | Orig | Rev | Orig | Rev | Orig | Rev |
| 2.00 | 0.9808 | 0.9394 | 0.3503 | 0.8522 | 1.0646 | 0.9293 |
| 3.00 | 0.9656 | 0.9595 | 0.5305 | 0.9261 | 0.9729 | 0.9124 |
| 4.00 | 0.9504 | 0.9752 | 0.6614 | 0.9702 | 0.9392 | 0.9184 |
| 5.00 | 0.9559 | 0.9877 | 0.7550 | 0.9985 | 0.9297 | 0.9275 |
| 6.00 | 0.9674 | 0.9805 | 0.8230 | 1.0174 | 0.9280 | 0.9326 |
| 7.00 | 0.9798 | 0.9856 | 0.8732 | 1.0303 | 0.9362 | 0.9396 |
| 8.00 | 0.9916 | 0.9901 | 0.9110 | 1.0391 | 0.9477 | 0.9471 |
| 9.00 | 1.0022 | 0.9939 | 0.9398 | 1.0442 | 0.9601 | 0.9544 |
| 10.00 | 1.0113 | 0.9970 | 0.9619 | 1.0468 | 0.9722 | 0.9613 |
| 12.00 | 1.0245 | 1.0007 | 0.9922 | 1.0483 | 0.9937 | 0.9737 |
| 14.00 | 1.0331 | 1.0029 | 1.0099 | 1.0463 | 1.0099 | 0.9840 |
| 16.00 | 1.0380 | 1.0041 | 1.0195 | 1.0422 | 1.0203 | 0.9924 |
| 18.00 | 1.0397 | 1.0042 | 1.0226 | 1.0368 | 1.0251 | 0.9991 |
| 20.00 | 1.0390 | 1.0036 | 1.0219 | 1.0306 | 1.0248 | 1.0045 |
| 25.00 | 1.0289 | 1.0002 | 1.0100 | 1.0139 | 1.0049 | 1.0130 |
| 30.00 | 1.0104 | 0.9947 | 0.9894 | 0.9969 | 0.9642 | 1.0163 |
| 35.00 | 0.9864 | 0.9882 | 0.9639 | 0.9804 | 0.9101 | 1.0161 |
| 40.00 | 0.9589 | 0.9813 | 0.9356 | 0.9648 | 0.8488 | 1.0137 |
| 45.00 | 0.9290 | 0.9740 | 0.9056 | 0.9498 | 0.7850 | 1.0092 |
| 50.00 | 0.8977 | 0.9667 | 0.8748 | 0.9355 | 0.7221 | 1.0032 |
| 55.00 | 0.8656 | 0.9592 | 0.8438 | 0.9218 | 0.6619 | 0.9963 |
| 60.00 | 0.8333 | 0.9518 | 0.8129 | 0.9088 | 0.6056 | 0.9888 |
| 65.00 | 0.8010 | 0.9443 | 0.7824 | 0.8964 | 0.5538 | 0.9807 |
| 70.00 | 0.7692 | 0.9369 | 0.7524 | 0.8846 | 0.5065 | 0.9723 |
| 75.00 | 0.7379 | 0.9296 | 0.7231 | 0.8733 | 0.4636 | 0.9637 |
| 80.00 | 0.7076 | 0.9222 | 0.6947 | 0.8625 | 0.4249 | 0.9549 |
| 85.00 | 0.6781 | 0.9150 | 0.6672 | 0.8521 | 0.3901 | 0.9462 |

| Table 2. Changes to original data decks, Lake Creek Study Site 3 | | | | | | | | |
|--|---------|----------|------|-------------|------|-----------|------|---------------------|
| Trans | Station | Low Flow | | Middle Flow | | High Flow | | Other |
| | | Orig | Rev | Orig | Rev | Orig | Rev | |
| 1 | 10.5 | | | | | 0.00 | 0.10 | |
| | 12.0 | | | | | 0.00 | 0.10 | |
| | 16.5 | | | | | 0.00 | 0.10 | |
| | 28.0 | | | 0.27 | 1.46 | | | |
| | 29.0 | | | 2.76 | 1.81 | | | |
| | 29.6 | | | | | | | Elev 92.98 to 93.22 |
| | 30.0 | | | | | | | Elev 92.93 to 93.22 |
| | 30.3 | | | | | | | Elev 92.88 to 93.22 |
| | 30.6 | -0.10 | 0.20 | 2.02 | 0.96 | 3.21 | 2.20 | |
| | 31.0 | | | 2.89 | 1.64 | | | |
| | 31.3 | | | 2.86 | 1.86 | | | |
| | 32.0 | 2.97 | 2.50 | | | 1.35 | 1.50 | |
| | 32.6 | | | 1.06 | 2.02 | | | |
| | 35.0 | | | | | | | Elev 93.03 to 93.22 |
| | 35.3 | | | | | | | Elev 93.13 to 93.24 |
| | 35.6 | | | | | | | Elev 93.03 to 93.25 |
| | 37.55 | | | | | 0.00 | 0.10 | |
| | 38.0 | | | | | 0.00 | 0.10 | |
| | 2 | 10.9 | | | | | | |
| 13.5 | | | | | | 0.00 | 0.10 | |
| 20.0 | | | | | | | | Elev 93.82 to 93.91 |
| 20.5 | | | | | | | | Elev 93.82 to 93.91 |
| 21.5 | | | | | | 0.00 | 0.10 | |
| 25.5 | | 0.05 | 0.20 | 1.02 | 0.55 | | | |
| 27.0 | | | | 2.58 | 3.03 | | | |
| 27.3 | | | | 1.39 | 1.79 | | | |
| 27.6 | | | | 1.10 | 2.48 | | | |
| 28.3 | | 0.05 | 0.30 | | | 3.08 | 2.90 | |
| 28.6 | | 0.05 | 0.00 | | | | | |
| 29.0 | | 0.60 | 0.75 | 2.52 | 2.20 | 4.40 | 4.00 | |
| 31.0 | | 1.72 | 1.27 | | | | | |
| 32.3 | | 0.70 | 0.80 | 0.83 | 1.50 | 2.09 | 2.00 | |
| 33.6 | | 1.81 | 1.90 | 4.41 | 4.00 | 4.87 | 4.50 | |
| 34.0 | 0.60 | 0.70 | 3.50 | 2.70 | 4.60 | 3.70 | | |
| 34.6 | 0.30 | 0.40 | | | 3.13 | 2.60 | | |

Table 2. Changes to original data decks, Lake Creek Study Site 3

| Trans | Station | Low Flow | | Middle Flow | | High Flow | | Other |
|-------|---------|-------------|------|-------------|------|-----------|------|-------------------------------|
| | | Orig | Rev | Orig | Rev | Orig | Rev | |
| 3 | 21.5 | | | | | | | n 0.062 to 0.03 (inc VAF .03) |
| | 24.5 | | | | | | | Elev 94.23 to 94.33 |
| | 27.0 | | | | | | | Elev 94.18 to 94.32 |
| | 27.5 | | | 0.30 | 0.12 | 0.00 | 0.15 | Elev 93.83 to 93.93 |
| | 28.5 | | | 0.14 | 0.25 | 0.97 | 0.90 | |
| | 29.0 | 0.01 | 0.12 | 0.30 | 0.70 | 1.84 | 1.7 | |
| | 30.5 | 0.48 | 0.55 | 3.10 | 1.84 | 3.51 | 3.30 | |
| | 31.0 | | | | | | | Elev 93.68 to 93.92 |
| | 37.5 | | | | | | | Elev 93.68 to 93.91 |
| | 38.0 | | | 0.40 | 0.45 | 1.75 | 1.50 | |
| | 38.5 | | | 0.23 | 0.30 | 1.09 | 1.00 | |
| | 4 | 30.0 | | | 0.08 | 0.00 | | |
| 30.5 | | 0.05 | 0.20 | 0.75 | 0.65 | | | |
| 31.0 | | 1.42 | 0.68 | | | | | |
| 31.3 | | 0.68 | 0.68 | | | | | Missed meas. |
| 36.6 | | | | 1.50 | 0.65 | | | |
| 39.3 | | | | 1.53 | 0.87 | | | |
| 40.0 | | 0.07 | 0.20 | 1.39 | 0.74 | | | |
| 40.3 | | | | 1.69 | 0.79 | | | |
| 40.6 | | 0.05 | 0.20 | 1.19 | 0.67 | | | Typo - 5.0 |
| 41.0 | | | | | | | | Elev 93.78 to 94.01 |
| 41.3 | | 0.05 | 0.20 | 1.49 | 0.63 | | | |
| 41.6 | | 0.05 | 0.20 | | | | | |
| 42.6 | | | | 0.11 | 0.67 | | | |
| 43.0 | | | | 0.01 | 0.15 | | | Elev 93.78 to 94.00 |
| 43.3 | | | 0.00 | 0.15 | | | | |
| 5 | 21.0 | | | | | 0.00 | 0.10 | Elev 94.58 to 94.60 |
| | 22.0 | | | | | | | Elev 94.00 to 94.60 |
| | 24.0 | 0.01 | 0.18 | | | 1.81 | 1.61 | |
| | 24.5 | 0.09 | 0.18 | 1.22 | 1.45 | 1.87 | 1.65 | |
| | 28.5 | | | 0.65 | 1.13 | 2.48 | 2.30 | |
| | 31.0 | | | 0.83 | 0.78 | | | |
| | 31.5 | | | 0.89 | 0.43 | | | |

Table 2. Changes to original data decks, Lake Creek Study Site 3

| Trans | Station | Low Flow | | Middle Flow | | High Flow | | Other |
|-------|---------|----------|------|-------------|------|-----------|---------------------|---------------------|
| | | Orig | Rev | Orig | Rev | Orig | Rev | |
| 6 | 33.0 | 0.00 | 0.10 | 0.24 | 0.15 | 0.11 | 0.20 | Elev 94.10 to 94.15 |
| | 33.5 | 0.00 | 0.05 | 0.21 | 0.15 | 0.00 | 0.18 | |
| | 34.0 | 0.00 | 0.05 | | | | | |
| | 34.5 | 0.00 | 0.05 | | | | | |
| | 36.5 | 0.00 | 0.10 | | | | | |
| | 25.5 | | | | | | | |
| | 26.0 | 0.00 | 0.10 | 0.27 | 0.20 | -0.22 | 0.22 | |
| | 26.5 | 0.00 | 0.15 | 0.09 | 0.49 | | | |
| | 27.0 | 0.00 | 0.10 | | | | | |
| | 30.0 | -0.05 | 0.05 | 0.99 | 0.21 | | | |
| | 30.5 | -0.07 | 0.07 | 0.89 | 0.35 | | | |
| | 32.0 | 0.00 | 0.15 | | | | | |
| | 32.5 | | | 0.46 | 1.06 | 1.77 | 1.60 | |
| | 33.0 | 0.00 | 0.18 | | | 1.53 | 1.80 | |
| | 33.5 | 0.00 | 0.10 | | | 1.34 | 1.25 | |
| | 34.5 | 0.00 | 0.15 | | | | | |
| | 35.0 | 0.08 | 0.15 | 1.44 | 0.68 | 1.40 | 1.25 | |
| | 35.5 | | | 1.97 | 0.75 | | | |
| | 36.0 | | | 1.99 | 0.92 | | | |
| | 38.0 | | | 3.07 | 1.46 | | | |
| 38.5 | | | 1.55 | 0.73 | | | | |
| 39.0 | | | | | | | Elev 94.15 to 94.00 | |
| 42.2 | 0.00 | 0.10 | | | | | | |

Table 3.1 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 3 | | | | | | | | | | | | | | | | | | |
|---|----|-------|-------|------|------|--------------|-------|---------|--------------|-------|----------|--------------|-------|----------|-------|-------|--|-----|
| Transect 1 | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 92.91 | | | 93.17 | | | 93.79 | | | 94.37 | | | 95.59 | | | |
| Disch (cfs) | | | 2 | | 5.00 | | 17.00 | | 34.00 | | 85.00 | | | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * Rev * | Meas | Orig | * Rev * | Meas | Orig | * Rev * | Orig | Rev | | |
| | 1 | 0.00 | 95.99 | | | | | | | | | | | | | | | |
| | 2 | 0.90 | 95.21 | | | | | | | | | | | | 0.03 | 0.04 | | |
| | 3 | 1.10 | 95.10 | | | | | | | | | | | | 0.04 | 0.05 | | |
| | 4 | 1.70 | 94.99 | | | | | | | | | | | | 0.04 | 0.06 | | |
| | 5 | 2.00 | 94.76 | | | | | | | | | | | | 0.05 | 0.09 | | |
| | 6 | 8.20 | 94.33 | | | | | | | | | 0.00 | 0.01 | 0.00 | 0.07 | 0.12 | | |
| | 7 | 9.00 | 94.13 | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.08 | 0.13 | | |
| * | 8 | 10.50 | 93.93 | | | | | | | | | 0.00 | 2.00 | * 0.10 | 2.38 | 0.19 | | |
| * | 9 | 12.00 | 93.93 | | | | | | | | | 0.00 | 2.00 | * 0.10 | 2.38 | 0.19 | | |
| | 10 | 13.50 | 94.03 | | | | | | | | | 1.88 | 1.68 | 1.85 | 2.28 | 4.04 | | |
| | 11 | 15.00 | 94.03 | | | | | | | | | -0.45 | -0.40 | ***** | -0.55 | -0.97 | | |
| * | 12 | 16.50 | 94.28 | | | | | | | | | 0.00 | 0.29 | * 0.10 | 0.84 | 0.62 | | |
| | 13 | 18.00 | 94.56 | | | | | | | | | | | | 0.71 | 1.20 | | |
| | 14 | 19.50 | 94.44 | | | | | | | | | | | | 0.77 | 1.32 | | |
| | 15 | 21.00 | 93.83 | | | | | | | | | 1.09 | 0.94 | 1.07 | 1.02 | 1.82 | | |
| | 16 | 22.50 | 94.51 | | | | | | | | | | | | 0.26 | 0.45 | | |
| | 17 | 24.00 | 94.03 | | | | | | | | | 0.28 | 0.25 | 0.27 | 0.34 | 0.60 | | |
| | 18 | 24.50 | 93.83 | | | | | | | | | 0.17 | 0.15 | 0.17 | 0.16 | 0.28 | | |
| | 19 | 25.00 | 93.83 | | | | | | | | | 0.63 | 0.55 | 0.62 | 0.59 | 1.05 | | |
| | 20 | 25.50 | 93.88 | | | | | | | | | 0.50 | 0.44 | 0.49 | 0.49 | 0.88 | | |
| | 21 | 26.00 | 93.63 | | | | | | 0.00 | 0.33 | * 0.37 * | 0.96 | 0.82 | 0.94 | 0.77 | 1.39 | | |
| | 22 | 26.50 | 93.73 | | | | | | 0.00 | 0.02 | 0.02 | 0.10 | 0.09 | 0.10 | 0.09 | 0.15 | | |
| | 23 | 27.00 | 93.33 | | | | | | -0.09 | -0.13 | ***** | 0.34 | 0.30 | 0.33 | 0.42 | 0.68 | | |
| | 24 | 27.50 | 93.33 | | | | | | -0.05 | 3.55 | * ***** | 0.84 | 3.86 | * 0.82 | 2.43 | 1.51 | | |
| * | 25 | 28.00 | 93.23 | | | | | | 0.27 | 0.27 | 1.55 * | 2.07 | 2.33 | 2.03 | 24.11 | 2.48 | | |
| | 26 | 28.50 | 92.98 | | | 1.77 | 1.54 | 1.77 | 1.98 | 1.89 | 2.08 | 2.12 | 1.73 | 2.08 | 0.93 | 1.78 | | |
| * | 27 | 29.00 | 93.03 | | | 1.45 | 1.40 | 1.49 | 2.76 | 1.87 | * 1.77 * | 1.74 | 1.80 | 1.78 | 1.03 | 1.54 | | |
| | 28 | 29.30 | 93.03 | | | 0.72 | 0.68 | 0.79 | 2.48 | 1.83 | * 2.01 | 2.68 | 2.62 | 3.11 | 2.52 | 4.73 | | |
| * | 29 | 29.60 | 92.98 | | | | | 1.31 * | 2.26 | 2.11 | 2.38 | 2.72 | 2.26 | 2.67 | 1.48 | 2.65 | | |
| * | 30 | 30.00 | 92.93 | | | | | 0.99 * | 2.38 | 2.19 | 2.52 | 3.32 | 2.78 | 3.26 | 2.31 | 3.90 | | |
| * | 31 | 30.30 | 92.88 | 1.16 | | | | 1.84 * | 2.87 | 2.69 | 3.02 | 3.30 | 2.73 | 3.24 | 1.67 | 3.03 | | |
| * | 32 | 30.60 | 92.78 | 0.43 | 0.06 | -0.10 | 1.70 | * 0.25 | 2.02 | 3.55 | * 1.04 * | 3.21 | 3.86 | * 2.14 * | 2.43 | 4.75 | | |
| * | 33 | 31.00 | 92.73 | 0.18 | 0.19 | 0.54 | 0.54 | 0.56 | 2.89 | 1.79 | * 1.61 * | 2.62 | 2.89 | 2.70 | 3.26 | 4.55 | | |
| * | 34 | 31.30 | 92.63 | 1.21 | 1.15 | 1.67 | 1.62 | 1.64 | 2.86 | 1.91 | * 1.81 * | 1.64 | 1.71 | 1.76 | 0.89 | 1.43 | | |
| | 35 | 31.60 | 92.63 | 2.69 | 2.92 | 2.79 | 2.55 | 2.96 | 2.33 | 1.89 | 2.07 | 1.42 | 1.30 | 1.54 | 0.48 | 0.89 | | |
| * | 36 | 32.00 | 92.63 | 2.89 | 2.33 | 2.97 | 2.44 | 2.40 | 1.34 | 1.54 | 1.72 * | 1.35 | 0.97 | * 1.29 | 0.32 | 0.76 | | |
| | 37 | 32.30 | 92.63 | 2.89 | 2.96 | 2.96 | 2.37 | 2.67 | 1.16 | 1.45 | * 1.59 * | 1.31 | 0.89 | * 1.08 | 0.28 | 0.56 | | |
| * | 38 | 32.60 | 92.53 | 1.80 | 2.02 | 2.35 | 1.85 | * 2.38 | 1.06 | 1.47 | * 2.03 * | 1.68 | 1.06 | * 1.69 | 0.41 | 1.13 | | |
| | 39 | 33.00 | 92.63 | 1.44 | 1.50 | 2.26 | 1.88 | 2.13 | 1.90 | 2.11 | 2.33 * | 2.51 | 1.84 | * 2.24 | 0.93 | 1.81 | | |
| | 40 | 33.30 | 92.58 | 0.66 | 0.71 | 1.44 | 1.31 | 1.52 | 3.10 | 2.58 | 2.84 | 3.44 | 3.09 | 3.69 | 2.36 | 4.47 | | |
| | 41 | 33.60 | 92.63 | 1.18 | 1.27 | 2.26 | 2.04 | 2.36 | 4.00 | 3.38 | 3.72 | 4.13 | 3.67 | 4.39 | 2.46 | 4.66 | | |
| | 42 | 34.00 | 92.73 | 1.30 | 1.39 | 2.51 | 2.20 | 2.54 | 3.82 | 3.54 | 3.89 | 4.52 | 3.77 | 4.53 | 2.47 | 4.73 | | |
| | 43 | 34.30 | 92.78 | 0.85 | 0.90 | 1.85 | 1.63 | 1.88 | 3.41 | 3.11 | 3.43 | 4.34 | 3.66 | 4.40 | 2.72 | 5.22 | | |
| | 44 | 34.60 | 92.98 | | | 1.79 | 1.53 | 1.76 | 2.82 | 2.83 | 3.12 | 4.13 | 3.26 | * 3.94 | 2.37 | 4.59 | | |
| * | 45 | 35.00 | 93.03 | | | | | 0.89 * | 2.16 | 1.98 | 2.29 | 3.04 | 2.55 | 2.98 | 2.14 | 3.61 | | |
| * | 46 | 35.30 | 93.13 | | | | | 0.47 * | 1.81 | 1.62 | 1.93 | 3.14 | 2.68 | 3.08 | 3.12 | 4.86 | | |
| * | 47 | 35.60 | 93.03 | | | | | 0.69 * | 1.74 | 1.59 | 1.84 | 2.49 | 2.09 | 2.44 | 1.80 | 3.02 | | |
| | 48 | 36.00 | 93.43 | | | | | | 1.58 | 1.52 | 1.65 | 1.49 | 1.21 | 1.46 | 0.54 | 1.07 | | |
| | 49 | 36.50 | 93.73 | | | | | | 0.95 | 0.88 | 1.00 | 1.23 | 1.03 | 1.21 | 0.76 | 1.31 | | |
| | 50 | 37.00 | 93.73 | | | | | | 0.69 | 0.64 | 0.73 | 0.90 | 0.75 | 0.88 | 0.56 | 0.97 | | |
| * | 51 | 37.55 | 93.88 | | | | | | 0.00 | 1.65 | * 0.10 | 0.00 | 1.65 | * 0.10 | 1.86 | 0.18 | | |
| * | 52 | 38.00 | 93.98 | | | | | | 0.00 | 1.41 | * 0.10 | 0.00 | 1.41 | * 0.10 | 1.79 | 0.20 | | |
| | 53 | 43.54 | 95.32 | | | | | | | | | | | | 0.55 | 0.03 | | |
| Total | | | | 8 * | | | 0 * | | | 9 * | | | 10 * | | | 12 * | | 1 * |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.2 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 3 | | | | | | | | | | | | | | | | | | | |
|---|----|-------|-------|------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|
| Transect 2 | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 93.08 | | 93.37 | | | 93.90 | | | 94.31 | | | 95.01 | | | | | |
| Disch (cfs) | | | 2.00 | | 5.00 | | | 17.00 | | | 34.00 | | | 85.00 | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Orig | Rev | | | |
| | 1 | 0.00 | 95.68 | | | | | | | | | | | | | | | | |
| | 2 | 0.10 | 95.52 | | | | | | | | | | | | | | | | |
| | 3 | 4.30 | 95.05 | | | | | | | | | | | | | | | | |
| | 4 | 5.00 | 95.64 | | | | | | | | | | | | | | | | |
| | 5 | 5.20 | 94.90 | | | | | | | | | | | | 0.29 | 0.05 | | | |
| * | 6 | 10.90 | 94.03 | | | | | | | | | | 0.93 | * | 1.28 | | | | |
| | 7 | 12.00 | 95.50 | | | | | | | | | | | | | | | | |
| | 8 | 13.00 | 94.32 | | | | | | | | | | | | | 1.01 | | | |
| * | 9 | 13.50 | 94.12 | | | | | | | | | 0.00 | 0.72 | * | 0.09 | 1.20 | 0.21 | | |
| | 10 | 14.00 | 94.55 | | | | | | | | | | | | | 0.77 | 1.09 | | |
| | 11 | 14.50 | 94.62 | | | | | | | | | | | | | 0.69 | 0.97 | | |
| | 12 | 15.00 | 94.22 | | | | | | | | | 0.50 | 0.43 | 0.44 | | 1.10 | 1.56 | | |
| | 13 | 15.50 | 94.12 | | | | | | | | | 0.46 | 0.41 | 0.43 | | 0.69 | 0.98 | | |
| | 14 | 16.00 | 94.12 | | | | | | | | | 0.66 | 0.59 | 0.61 | | 0.99 | 1.40 | | |
| | 15 | 16.50 | 94.12 | | | | | | | | | 0.41 | 0.37 | 0.38 | | 0.62 | 0.87 | | |
| | 16 | 17.00 | 94.12 | | | | | | | | | 0.75 | 0.68 | 0.70 | | 1.13 | 1.60 | | |
| | 17 | 17.50 | 94.02 | | | | | | | | | 0.56 | 0.51 | 0.53 | | 0.69 | 0.98 | | |
| | 18 | 18.00 | 94.45 | | | | | | | | | | | | | 0.58 | 0.82 | | |
| | 19 | 18.50 | 94.02 | | | | | | | | | 0.69 | 0.63 | 0.65 | | 0.85 | 1.20 | | |
| | 20 | 19.00 | 94.02 | | | | | | | | | 0.43 | 0.39 | 0.41 | | 0.53 | 0.75 | | |
| | 21 | 19.50 | 94.02 | | | | | | | | | 0.39 | 0.36 | 0.37 | | 0.48 | 0.68 | | |
| * | 22 | 20.00 | 93.82 | | | | | | 0.14 | | | 0.47 | 0.44 | 0.45 | | 0.46 | 0.71 | | |
| * | 23 | 20.50 | 93.82 | | | | | | 0.16 | | | 0.51 | 0.47 | 0.48 | | 0.50 | 0.77 | | |
| | 24 | 21.00 | 94.02 | | | | | | | | | 0.01 | 0.01 | 0.01 | | 0.01 | 0.02 | | |
| * | 25 | 21.50 | 94.12 | | | | | | | | | 0.00 | 0.53 | * | 0.09 | 0.89 | 0.21 | | |
| | 26 | 22.00 | 94.12 | | | | | | | | | 0.59 | 0.53 | 0.55 | | 0.89 | 1.26 | | |
| | 27 | 22.60 | 94.02 | | | | | | | | | 0.41 | 0.38 | 0.39 | | 0.50 | 0.71 | | |
| | 28 | 23.00 | 93.97 | | | | | | | | | 0.46 | 0.42 | 0.44 | | 0.53 | 0.75 | | |
| | 29 | 23.50 | 93.83 | | | | | | 0.00 | 0.10 | 0.10 | 0.35 | 0.32 | 0.33 | | 0.35 | 0.49 | | |
| | 30 | 24.00 | 93.68 | | | | | | 0.00 | 0.14 | 0.14 | 0.27 | 0.25 | 0.26 | | 0.24 | 0.35 | | |
| | 31 | 24.50 | 93.83 | | | | | | 0.00 | 0.13 | 0.13 | 0.47 | 0.44 | 0.45 | | 0.47 | 0.66 | | |
| | 32 | 25.00 | 93.26 | | | 0.05 | 0.05 | 0.05 | 0.41 | 0.39 | 0.37 | 1.01 | 1.02 | 1.02 | | 2.56 | 3.46 | | |
| * | 33 | 25.50 | 93.27 | | | 0.05 | 0.07 | 0.20 | 1.02 | 0.55 | * | 0.61 | * | 1.10 | 1.56 | * | 1.06 | 4.29 | 1.92 |
| | 34 | 26.00 | 93.27 | | | 2.25 | 2.28 | 2.27 | 1.99 | 2.13 | 2.05 | 1.84 | 1.74 | 1.80 | | 0.93 | 1.32 | | |
| | 35 | 26.50 | 93.17 | | | 2.83 | 2.86 | 2.84 | 2.33 | 2.51 | 2.42 | 2.11 | 1.99 | 2.05 | | 1.01 | 1.44 | | |
| * | 36 | 27.00 | 93.17 | | | 3.85 | 3.35 | 3.90 | 1.65 | 2.58 | * | 3.06 | * | 2.50 | 1.88 | * | 2.48 | 0.87 | 1.63 |
| * | 37 | 27.30 | 93.27 | | | 0.90 | 0.72 | 0.91 | 0.73 | 1.39 | * | 1.81 | * | 2.55 | 1.70 | * | 2.47 | 1.56 | 3.26 |
| * | 38 | 27.60 | 93.17 | | | 2.25 | 1.85 | 2.28 | 1.10 | 1.97 | * | 2.51 | * | 2.51 | 1.74 | * | 2.46 | 1.02 | 2.10 |
| | 39 | 28.00 | 93.27 | | | 1.24 | 1.07 | 1.08 | 0.98 | 1.56 | * | 1.49 | * | 2.20 | 1.64 | * | 1.67 | 1.22 | 1.68 |
| * | 40 | 28.30 | 93.27 | | | 0.05 | 0.05 | 0.28 | * | 0.86 | 0.80 | 1.13 | * | 3.08 | 3.16 | 2.34 | * | 13.45 | 5.35 |
| * | 41 | 28.60 | 93.27 | | | 0.05 | 0.06 | 0.50 | * | 1.76 | 1.12 | * | 1.83 | 3.78 | 4.88 | * | 3.55 | 23.80 | 7.44 |
| * | 42 | 29.00 | 92.97 | 0.22 | 0.31 | 0.63 | 0.66 | 0.76 | 2.52 | 2.46 | 2.24 | 4.40 | 4.39 | 3.83 | | 6.58 | 6.80 | | |
| | 43 | 29.30 | 92.97 | 0.92 | 1.01 | 1.65 | 1.70 | 1.69 | 3.09 | 3.18 | 3.04 | 3.97 | 3.84 | 3.93 | | 3.45 | 4.81 | | |
| | 44 | 29.60 | 92.97 | 0.88 | 0.95 | 1.45 | 1.63 | 1.61 | 3.69 | 3.05 | 2.92 | 3.36 | 3.71 | 3.80 | | 3.33 | 4.69 | | |
| | 45 | 30.00 | 92.67 | 2.83 | 3.06 | 2.94 | 3.00 | 2.99 | 2.57 | 2.69 | 2.59 | 2.24 | 2.15 | 2.22 | | 1.11 | 1.58 | | |
| | 46 | 30.30 | 92.67 | 3.88 | 4.19 | 3.21 | 3.17 | 3.15 | 1.75 | 2.00 | 1.93 | 1.44 | 1.31 | 1.36 | | 0.52 | 0.74 | | |
| | 47 | 30.60 | 92.67 | 3.03 | 3.29 | 2.37 | 2.19 | 2.18 | 0.87 | 1.17 | * | 1.13 | * | 0.85 | 0.70 | 0.73 | 0.25 | 0.35 | |
| * | 48 | 31.00 | 92.87 | 3.42 | 2.41 | 1.72 | 1.48 | 1.12 | 0.25 | 0.40 | 0.36 | 0.22 | 0.16 | 0.18 | | 0.03 | 0.06 | | |
| | 49 | 31.50 | 92.67 | 0.11 | 0.12 | 0.17 | 0.15 | 0.15 | 0.14 | 0.20 | 0.19 | 0.24 | 0.19 | 0.20 | | 0.13 | 0.18 | | |
| | 50 | 32.00 | 92.57 | 0.09 | 0.10 | 0.21 | 0.20 | 0.20 | 0.40 | 0.50 | 0.48 | 0.83 | 0.71 | 0.72 | | 0.80 | 1.10 | | |
| * | 51 | 32.30 | 92.57 | 0.28 | 0.48 | 0.66 | 0.58 | 0.82 | 0.83 | 1.24 | * | 1.50 | * | 2.09 | 1.65 | * | 1.96 | 1.61 | 2.44 |
| | 52 | 32.60 | 92.37 | 0.66 | 0.72 | 1.24 | 1.27 | 1.27 | 2.43 | 2.52 | 2.40 | 3.26 | 3.14 | 3.21 | | 2.94 | 4.10 | | |
| | 53 | 33.00 | 92.27 | 2.09 | 2.28 | 3.01 | 2.96 | 2.95 | 3.38 | 3.90 | 3.74 | 4.28 | 3.87 | 3.96 | | 2.67 | 3.74 | | |
| | 54 | 33.30 | 92.27 | 1.07 | 1.17 | 1.96 | 2.04 | 2.03 | 3.96 | 3.97 | 3.80 | 5.01 | 4.92 | 5.03 | | 4.55 | 6.36 | | |
| * | 55 | 33.60 | 92.47 | 1.00 | 1.19 | 1.81 | 1.96 | 2.01 | 4.41 | 4.00 | 3.62 | 4.87 | 5.09 | 4.69 | | 4.87 | 5.76 | | |
| * | 56 | 34.00 | 92.57 | 0.19 | 0.31 | 0.56 | 0.64 | 0.76 | 3.47 | 2.72 | * | 2.29 | * | 4.60 | 5.24 | 3.97 | 8.67 | 7.17 | |
| * | 57 | 34.60 | 92.67 | 0.10 | 0.16 | 0.33 | 0.35 | 0.43 | 1.74 | 1.61 | 1.47 | 3.13 | 3.23 | 2.74 | | 5.63 | 5.45 | | |
| | 58 | 35.00 | 92.97 | 0.10 | 0.11 | 0.26 | 0.28 | 0.28 | 1.11 | 0.99 | 0.94 | 1.61 | 1.70 | 1.72 | | 2.43 | 3.36 | | |
| | 59 | 35.50 | 93.17 | | | 0.61 | 0.59 | 0.59 | 0.65 | 0.78 | 0.75 | 0.88 | 0.78 | 0.79 | | 0.54 | 0.75 | | |
| | 60 | 36.00 | 93.27 | | | 0.05 | 0.04 | 0.04 | 0.11 | 0.18 | 0.17 | 0.49 | 0.36 | 0.35 | | 0.59 | 0.80 | | |
| | 61 | 36.50 | 93.38 | | | | | | -0.09 | -0.08 | -0.09 | 0.22 | 0.20 | 0.20 | | 0.32 | 0.47 | | |
| | 62 | 37.00 | 93.53 | | | | | | -0.22 | -0.22 | -0.22 | 0.08 | 0.07 | 0.06 | | 0.24 | 0.35 | | |
| * | 63 | 37.50 | 93.72 | | | | | | | -0.10 | | -0.21 | -0.20 | -0.20 | | -0.19 | -0.32 | | |
| | 64 | 38.00 | 93.92 | | | | | | | | | -0.28 | -0.26 | -0.27 | | -0.30 | -0.43 | | |
| | 65 | 39.00 | 94.12 | | | | | | | | | 0.01 | 0.01 | 0.01 | | 0.02 | 0.02 | | |
| | 66 | 39.61 | 94.32 | | | | | | | | | | | | | 0.01 | 0.02 | | |
| | 67 | 39.62 | 94.41 | | | | | | | | | | | | | 0.01 | 0.02 | | |
| Total | | | | | | 0 * | 3 * | | 9 * | 10 * | | 10 * | 2 * | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3.3 - Summary of calibration details for original and revised input decks | | | | | | | | | | | | | | | | | | | | | | | |
|---|----|-------|-------|------|-------|-------------|------|-------|-----|-------------|-------|-------------|---------------|--------|--------|------|------|---|-----|---|------|-------|------|
| Calibration details for Lake Creek Study Site 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Transect 3 | | | | | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 93.65 | | 93.87 | | | 94.27 | | | 94.56 | | | 95.04 | | | | | | | | | |
| Disch (cfs) | | | 2.00 | | 5.00 | | | 17.00 | | | 34.00 | | | 85.00 | | | | | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Orig | Rev | |
| | 1 | 0.00 | 97.35 | | | | | | | | | | | | | | | | | | | | |
| | 2 | 0.20 | 97.20 | | | | | | | | | | | | | | | | | | | | |
| | 3 | 10.50 | 95.77 | | | | | | | | | | | | | | | | | | | | |
| | 4 | 15.00 | 94.59 | | | | | | | | | | | | | | | | | | | 0.81 | 0.96 |
| | 5 | 19.50 | 94.58 | | | | | | | | | | | | | | | | | | | 0.82 | 0.98 |
| | 6 | 20.50 | 94.38 | | | | | | | | | 0.74 | 0.69 | 0.70 | | | | | | | | 1.05 | 1.24 |
| | 7 | 21.50 | 94.53 | | | | | | | | | 1.61 | 1.23 | * 1.39 | | | | | | | | 4.86 | 6.51 |
| | 8 | 22.50 | 94.38 | | | | | | | | | 1.47 | 1.38 | 1.38 | | | | | | | | 2.08 | 2.47 |
| | 9 | 23.50 | 94.48 | | | | | | | | | 1.44 | 1.27 | 1.27 | | | | | | | | 2.91 | 3.45 |
| * | 10 | 24.50 | 94.23 | | | | | | | 0.49 | * | 1.97 | 1.90 | 1.88 | | | | | | | | 2.20 | 2.99 |
| | 11 | 25.00 | 94.28 | | | | | | | | | 2.17 | 2.08 | 2.08 | | | | | | | | 2.58 | 3.05 |
| | 12 | 25.60 | 94.28 | | | | | | | | | 1.50 | 1.44 | 1.44 | | | | | | | | 1.78 | 2.11 |
| | 13 | 26.00 | 94.28 | | | | | | | | | 1.80 | 1.72 | 1.73 | | | | | | | | 2.14 | 2.53 |
| | 14 | 26.50 | 94.33 | | | | | | | | | 0.73 | 0.69 | 0.70 | | | | | | | | 0.94 | 1.11 |
| * | 15 | 27.00 | 94.18 | | | | | | | 0.01 | | 0.02 | 0.02 | 0.02 | | | | | | | | 0.02 | 0.03 |
| * | 16 | 27.50 | 93.83 | | | | 0.06 | | | 0.30 | 0.32 | 0.13 | 0.00 | 0.43 | * 0.15 | | | | | | | 0.39 | 0.14 |
| | 17 | 28.00 | 93.78 | | | 0.00 | 0.01 | 0.01 | | 0.09 | 0.10 | 0.11 | 0.42 | 0.40 | 0.38 | | | | | | | 1.76 | 1.65 |
| * | 18 | 28.50 | 93.78 | | | 0.00 | 0.01 | 0.04 | | 0.14 | 0.15 | 0.29 | 0.97 | 0.92 | 0.83 | | | | | | | 6.59 | 2.67 |
| * | 19 | 29.00 | 93.68 | | | 0.01 | 0.01 | 0.12 | | 0.30 | 0.29 | 0.68 | * 1.84 | 1.89 | 1.73 | | | | | | | 14.72 | 4.67 |
| | 20 | 29.50 | 93.68 | | | 0.38 | 0.30 | 0.34 | | 0.98 | 1.32 | * 1.32 | * 3.23 | 2.71 | 2.74 | | | | | | | 4.70 | 5.63 |
| | 21 | 30.00 | 93.68 | | | 0.94 | 0.87 | 0.94 | | 2.51 | 2.34 | 2.34 | 3.48 | 3.67 | 3.66 | | | | | | | 4.45 | 5.21 |
| | 22 | 30.50 | 93.58 | 0.21 | 0.21 | 0.48 | 0.49 | 0.56 | | 3.10 | 2.16 | * 1.81 | * 3.51 | 4.44 | * 3.36 | | | | | | | 7.69 | 6.00 |
| * | 23 | 31.00 | 93.68 | | | | 2.98 | * | | 3.52 | 3.62 | 3.62 | 3.63 | 3.61 | 3.61 | | | | | | | 2.40 | 2.83 |
| | 24 | 31.50 | 93.78 | | | | 2.34 | * | | 2.39 | 2.45 | 2.44 | 2.25 | 2.24 | 2.25 | | | | | | | 1.33 | 1.59 |
| | 25 | 32.00 | 93.58 | 0.69 | 0.69 | 1.15 | 0.93 | 1.03 | | 1.16 | 1.53 | * 1.53 | * 2.12 | 1.81 | 1.83 | | | | | | | 1.51 | 1.82 |
| | 26 | 32.50 | 93.08 | 0.05 | 0.05 | 0.17 | 0.15 | 0.17 | | 0.77 | 0.79 | 0.79 | 1.80 | 1.79 | 1.79 | | | | | | | 3.55 | 4.18 |
| | 27 | 33.00 | 92.98 | 0.88 | 0.88 | 1.42 | 1.18 | 1.31 | | 1.59 | 1.95 | * 1.95 | * 2.59 | 2.31 | 2.33 | | | | | | | 1.93 | 2.32 |
| * | 28 | 33.50 | 92.98 | 0.57 | 0.57 | 0.94 | 0.93 | 0.94 | | 2.37 | 1.84 | * 1.58 | * 2.03 | 2.40 | 2.03 | | | | | | | 2.30 | 2.22 |
| | 29 | 34.00 | 93.08 | 0.43 | 0.43 | 0.68 | 0.57 | 0.63 | | 0.76 | 0.92 | 0.92 | 1.19 | 1.07 | 1.08 | | | | | | | 0.88 | 1.05 |
| | 30 | 34.50 | 92.83 | 0.67 | 0.67 | 1.05 | 0.93 | 1.03 | | 1.52 | 1.60 | 1.59 | 1.98 | 1.94 | 1.95 | | | | | | | 1.68 | 1.99 |
| | 31 | 35.00 | 92.88 | 1.16 | 1.16 | 1.69 | 1.55 | 1.74 | | 2.78 | 2.61 | 2.60 | 2.97 | 3.12 | 3.12 | | | | | | | 2.65 | 3.11 |
| | 32 | 35.50 | 93.58 | 1.58 | 1.58 | 2.16 | 2.01 | 2.25 | | 3.44 | 3.15 | 3.14 | 3.39 | 3.62 | 3.61 | | | | | | | 2.92 | 3.42 |
| | 33 | 36.00 | 93.28 | 1.04 | 1.04 | 1.73 | 1.48 | 1.65 | | 2.34 | 2.66 | 2.65 | 3.53 | 3.30 | 3.32 | | | | | | | 2.94 | 3.50 |
| | 34 | 36.50 | 93.28 | 1.36 | 1.36 | 1.80 | 1.61 | 1.8 | | 2.26 | 2.28 | 2.27 | 2.46 | 2.47 | 2.48 | | | | | | | 1.84 | 2.18 |
| | 35 | 37.00 | 93.38 | 1.10 | 1.10 | 1.55 | 1.37 | 1.52 | | 1.95 | 2.05 | 2.05 | 2.35 | 2.30 | 2.31 | | | | | | | 1.80 | 2.13 |
| * | 36 | 37.50 | 93.68 | | | | 0.50 | * | | 1.24 | 1.30 | 1.33 | 2.01 | 1.98 | 1.95 | | | | | | | 2.31 | 2.54 |
| * | 37 | 38.00 | 93.88 | | | | | | | 0.40 | 0.43 | 0.51 | 1.75 | 1.68 | 1.40 | | | | | | | 6.78 | 4.10 |
| * | 38 | 38.50 | 93.98 | | | | | | | 0.23 | 0.25 | 0.34 | 1.09 | 1.05 | 0.93 | | | | | | | 4.66 | 2.74 |
| | 39 | 39.00 | 94.18 | | | | | | | 0.10 | 0.10 | 0.10 | 0.05 | 0.05 | 0.05 | | | | | | | 0.01 | 0.02 |
| | 40 | 39.50 | 94.43 | | | | | | | | | | 0.00 | 0.15 | 0.15 | | | | | | | 0.27 | 0.32 |
| | 41 | 39.80 | 94.58 | | | | | | | | | | | | | | | | | | | 0.22 | 0.27 |
| | 42 | 40.80 | 94.92 | | | | | | | | | | | | | | | | | | | 0.09 | 0.11 |
| | 43 | 41.80 | 95.76 | | | | | | | | | | | | | | | | | | | | |
| | 44 | 43.00 | 97.38 | | | | | | | | | | | | | | | | | | | | |
| | 45 | 43.09 | 97.50 | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | 3 | * | 0 | * | | 6 | * | 6 | * | | 3 | * | 0 | * | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3.4 - Summary of calibration details for original and revised input decks | | | | | | | | | | | | | | | | |
|---|----|-------|-------|-------|------|------|-------|---------|------|-------|----------|------|-------|---------|--------|------------|
| Calibration details for Lake Creek Study Site 3 | | | | | | | | | | | | | | | | |
| Transect 4 | | | | | | | | | | | | | | | | |
| WSE (ft) | | 93.72 | | 93.98 | | | 94.44 | | | 94.78 | | | 95.34 | | | |
| Disch (cfs) | | 2.00 | | 5.00 | | | 17.00 | | | 34.00 | | | 85.00 | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * Rev * | Meas | Orig | * Rev * | Meas | Orig | * Rev * | Orig | Rev |
| | 1 | 0.00 | 98.08 | | | | | | | | | | | | | |
| | 2 | 0.20 | 97.89 | | | | | | | | | | | | | |
| | 3 | 3.00 | 97.76 | | | | | | | | | | | | | |
| | 4 | 4.20 | 97.00 | | | | | | | | | | | | | |
| | 5 | 12.30 | 96.07 | | | | | | | | | | | | | |
| | 6 | 13.00 | 96.36 | | | | | | | | | | | | | |
| | 7 | 14.20 | 95.53 | | | | | | | | | | | | | |
| | 8 | 24.00 | 94.78 | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.01 0.02 |
| | 9 | 25.00 | 94.73 | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.01 0.02 |
| | 10 | 26.00 | 94.73 | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.01 0.02 |
| | 11 | 27.00 | 94.68 | | | | | | | | | | 0.00 | 0.01 | 0.01 | 0.02 0.02 |
| | 12 | 28.00 | 94.58 | | | | | | | | | | 0.01 | 0.01 | 0.01 | 0.02 0.02 |
| | 13 | 28.60 | 94.58 | | | | | | | | | | 0.50 | 0.50 | 0.50 | 0.83 1.12 |
| | 14 | 29.00 | 94.43 | | | | | | 0.00 | 0.07 | 0.07 | | 0.63 | 0.63 | 0.63 | 0.81 1.09 |
| | 15 | 29.50 | 94.23 | | | | | | 0.00 | 0.67 | * 0.65 * | | 1.22 | 1.21 | 1.21 | 1.32 1.78 |
| | 16 | 30.00 | 94.03 | | | | | | 0.08 | 0.24 | 1.48 * | | 2.44 | 1.52 | * 2.18 | 12.75 2.92 |
| * | 17 | 30.50 | 93.93 | | | 0.05 | 0.05 | 0.17 | 0.75 | 0.69 | 0.88 | | 2.62 | 2.80 | 2.15 | 12.91 6.61 |
| * | 18 | 31.00 | 93.53 | 0.84 | 0.78 | 1.42 | 1.20 | 1.22 | 1.50 | 2.18 | * 2.11 * | | 3.48 | 2.78 | * 2.80 | 2.79 3.85 |
| * | 19 | 31.30 | 93.53 | 0.33 | 0.30 | 0.67 | 0.67 | 0.67 | 1.86 | 1.93 | 1.85 | | 3.22 | 3.20 | 3.20 | 4.54 6.22 |
| | 20 | 31.60 | 93.33 | 2.00 | 1.90 | 2.34 | 2.17 | 2.23 | 2.41 | 2.72 | 2.63 | | 3.00 | 2.82 | 2.82 | 2.15 2.91 |
| | 21 | 32.00 | 93.28 | 1.37 | 1.29 | 1.81 | 1.65 | 1.70 | 2.03 | 2.40 | 2.32 | | 2.95 | 2.69 | 2.70 | 2.29 3.11 |
| | 22 | 32.30 | 93.13 | 1.14 | 0.89 | 1.61 | 1.41 | 1.26 * | 1.59 | 2.10 | * 1.92 * | | 2.82 | 2.40 | 2.38 | 2.07 2.98 |
| | 23 | 32.60 | 93.18 | 0.38 | 0.36 | 0.71 | 0.65 | 0.66 | 1.27 | 1.50 | 1.45 | | 2.41 | 2.20 | 2.20 | 2.65 3.60 |
| | 24 | 33.00 | 93.08 | 0.26 | 0.26 | 0.49 | 0.49 | 0.51 | 1.42 | 1.28 | 1.23 | | 1.83 | 1.99 | 1.97 | 2.61 3.48 |
| | 25 | 33.30 | 92.98 | 0.51 | 0.49 | 0.74 | 0.75 | 0.78 | 1.58 | 1.41 | 1.36 | | 1.68 | 1.84 | 1.82 | 1.90 2.53 |
| | 26 | 33.60 | 92.98 | 0.36 | 0.34 | 0.60 | 0.59 | 0.60 | 1.30 | 1.28 | 1.23 | | 1.76 | 1.81 | 1.80 | 2.08 2.80 |
| | 27 | 34.00 | 92.98 | 0.33 | 0.32 | 0.55 | 0.56 | 0.58 | 1.46 | 1.28 | 1.23 | | 1.68 | 1.86 | 1.84 | 2.22 2.95 |
| | 28 | 34.30 | 92.98 | 0.70 | 0.67 | 0.95 | 0.93 | 0.96 | 1.55 | 1.52 | 1.47 | | 1.78 | 1.83 | 1.82 | 1.70 2.29 |
| | 29 | 34.60 | 92.80 | 0.47 | 0.46 | 0.73 | 0.71 | 0.73 | 1.34 | 1.35 | 1.30 | | 1.75 | 1.77 | 1.76 | 1.85 2.48 |
| | 30 | 35.00 | 93.53 | 0.65 | 0.62 | 1.04 | 1.00 | 1.03 | 1.93 | 1.99 | 1.92 | | 2.69 | 2.68 | 2.67 | 2.89 3.89 |
| | 31 | 35.30 | 93.48 | 0.85 | 0.82 | 1.10 | 1.07 | 1.10 | 1.62 | 1.62 | 1.56 | | 1.84 | 1.87 | 1.86 | 1.64 2.21 |
| | 32 | 35.60 | 93.48 | 1.55 | 1.49 | 1.55 | 1.49 | 1.54 | 1.53 | 1.58 | 1.52 | | 1.49 | 1.48 | 1.48 | 1.00 1.35 |
| | 33 | 36.00 | 93.33 | 1.17 | 1.14 | 1.21 | 1.21 | 1.26 | 1.54 | 1.41 | 1.37 | | 1.31 | 1.41 | 1.40 | 1.02 1.36 |
| | 34 | 36.30 | 92.93 | 0.53 | 0.49 | 0.69 | 0.72 | 0.70 | 1.46 | 1.20 | 1.06 * | | 1.28 | 1.47 | 1.31 | 1.39 1.64 |
| * | 35 | 36.60 | 92.93 | 0.50 | 0.42 | 0.63 | 0.68 | 0.57 | 1.50 | 1.13 | * 0.82 * | | 1.13 | 1.38 | * 0.98 | 1.30 1.17 |
| | 36 | 37.00 | 93.28 | 0.38 | 0.36 | 0.63 | 0.61 | 0.63 | 1.31 | 1.31 | 1.26 | | 1.80 | 1.83 | 1.82 | 2.08 2.80 |
| | 37 | 37.30 | 92.88 | 0.50 | 0.48 | 0.61 | 0.63 | 0.65 | 1.13 | 0.96 | 0.93 | | 0.99 | 1.12 | 1.11 | 0.99 1.31 |
| | 38 | 37.60 | 92.88 | 0.39 | 0.37 | 0.57 | 0.52 | 0.54 | 0.73 | 0.86 | 0.83 | | 1.13 | 1.04 | 1.04 | 0.97 1.31 |
| | 39 | 38.00 | 93.43 | 0.20 | 0.22 | 0.45 | 0.40 | 0.45 | 0.90 | 1.13 | * 1.10 | | 2.10 | 1.85 | 1.78 | 2.57 3.19 |
| | 40 | 38.30 | 93.38 | 0.19 | 0.18 | 0.40 | 0.37 | 0.38 | 0.91 | 1.03 | 1.00 | | 1.79 | 1.68 | 1.68 | 2.32 3.15 |
| | 41 | 38.60 | 93.48 | 0.23 | 0.22 | 0.47 | 0.44 | 0.45 | 1.09 | 1.19 | 1.15 | | 1.98 | 1.90 | 1.90 | 2.57 3.47 |
| | 42 | 39.00 | 93.43 | 0.40 | 0.39 | 0.59 | 0.61 | 0.64 | 1.45 | 1.21 | 1.17 | | 1.42 | 1.62 | 1.60 | 1.74 2.31 |
| * | 43 | 39.30 | 93.38 | 0.19 | 0.16 | 0.34 | 0.37 | 0.34 | 1.53 | 1.08 | * 0.85 * | | 1.40 | 1.78 | * 1.40 | 2.53 2.56 |
| | 44 | 39.60 | 93.33 | 0.08 | 0.08 | 0.20 | 0.20 | 0.21 | 0.85 | 0.78 | 0.75 | | 1.44 | 1.54 | 1.53 | 2.76 3.68 |
| * | 45 | 40.00 | 93.53 | 0.02 | 0.07 | 0.07 | 0.09 | 0.20 | 1.39 | 0.73 | * 0.72 * | | 1.45 | 2.23 | * 1.46 | 7.12 3.48 |
| * | 46 | 40.30 | 93.88 | | | 0.34 | 0.39 | 0.34 | 1.69 | 1.05 | * 0.77 * | | 1.20 | 1.66 | * 1.20 | 2.22 2.04 |
| * | 47 | 40.60 | 93.78 | | | 0.05 | 4.21 | * 0.20 | 1.19 | 1.76 | * 0.65 * | | 1.23 | 0.97 | * 1.24 | 0.33 2.74 |
| * | 48 | 41.00 | 93.78 | | | | 2.30 | * | 1.59 | 1.65 | 1.58 | | 1.26 | 1.25 | 1.26 | 0.63 0.88 |
| * | 49 | 41.30 | 93.73 | | | 0.05 | 0.07 | 0.20 | 1.49 | 0.62 | * 0.61 * | | 1.13 | 2.01 | * 1.13 | 6.90 2.41 |
| * | 50 | 41.60 | 93.78 | | | 0.05 | 0.06 | 0.20 | 0.94 | 0.65 | * 0.87 | | 1.85 | 2.38 | * 1.92 | 9.67 5.18 |
| | 51 | 42.00 | 93.78 | | | 0.18 | 0.17 | 0.17 | 0.57 | 0.64 | 0.62 | | 1.33 | 1.25 | 1.25 | 2.20 2.98 |
| | 52 | 42.30 | 93.58 | | | 0.20 | 0.17 | 0.17 | 0.27 | 0.42 | 0.41 | | 0.85 | 0.65 | 0.66 | 0.84 1.16 |
| * | 53 | 42.60 | 93.68 | 0.09 | 0.08 | 0.23 | 0.15 | 0.23 | 0.11 | 0.36 | * 0.66 * | | 1.16 | 0.55 | * 1.16 | 0.70 2.33 |
| * | 54 | 43.00 | 93.78 | 0.08 | 0.10 | | 0.00 | | 0.01 | 0.09 | 0.72 | | 1.05 | 0.56 | * 1.04 | 4.68 1.38 |
| * | 55 | 43.30 | 94.18 | | | | | | 0.00 | 0.39 | * 0.16 | | 0.66 | 0.66 | 0.62 | 0.70 3.37 |
| | 56 | 44.00 | 94.28 | | | | | | 0.00 | 0.02 | 0.02 | | 0.05 | 0.05 | 0.05 | 0.06 0.08 |
| | 57 | 45.00 | 94.78 | | | | | | | | | | 0.00 | 0.00 | 0.00 | 0.04 0.05 |
| | 58 | 46.10 | 97.05 | | | | | | | | | | | | | |
| | 59 | 46.25 | 97.19 | | | | | | | | | | | | | |
| Total | | | | | | | 2 * | 1 * | | 13 * | 13 * | | | 11 * | 0 * | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.5 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 3 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----|-------|-------|-------|-------|--------------|-------|-------|-------|-------|--------------|-------|---|-------|---|--------------|-------|---|-------|---|------|-------|-------|-------|
| Transect 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | 93.85 | | 94.12 | | 94.55 | | 94.84 | | 95.29 | | | | | | | | | | | | | | |
| Disch (cfs) | | 2.00 | | 5.00 | | 17.00 | | 34.00 | | 85.00 | | | | | | | | | | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Orig | Rev | | |
| | 1 | 0.00 | 97.71 | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 0.15 | 97.61 | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 2.00 | 97.41 | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 2.60 | 96.77 | | | | | | | | | | | | | | | | | | | | | |
| | 5 | 17.00 | 95.69 | | | | | | | | | | | | | | | | | | | | | |
| | 6 | 20.20 | 94.85 | | | | | | | | | | | | | | | | | | | 0.58 | 0.1 | |
| * | 7 | 21.00 | 94.55 | | | | | | | | | 0.03 | | | | 0.00 | 0.6 | * | 0.1 | | | 0.82 | 0.2 | |
| * | 8 | 22.00 | 94.00 | | | | | | | | 0.00 | 1.03 | * | 0.83 | * | 1.35 | 1.30 | | 1.32 | | | 1.19 | 1.70 | |
| | 9 | 22.50 | 93.85 | | | 0.00 | 0.08 | | 0.11 | | 0.78 | 0.74 | | 0.76 | | 2.04 | 2.07 | | 2.09 | | | 5.95 | 7.34 | |
| | 10 | 23.00 | 93.75 | 0.01 | 0.03 | 0.00 | 0.09 | | 0.13 | | 0.82 | 0.78 | | 0.81 | | 2.07 | 2.10 | | 2.11 | | | 5.72 | 7.06 | |
| | 11 | 23.50 | 93.60 | 0.01 | 0.03 | 0.00 | 0.10 | | 0.14 | | 0.79 | 0.75 | | 0.78 | | 1.89 | 1.91 | | 1.93 | | | 4.81 | 5.95 | |
| * | 12 | 24.00 | 93.45 | 0.00 | 0.06 | 0.01 | 0.01 | | 0.19 | | 0.97 | 0.44 | * | 0.84 | | 1.81 | 3.02 | * | 1.78 | | | 28.38 | 4.52 | |
| * | 13 | 24.50 | 93.40 | 0.01 | 0.08 | 0.09 | 0.08 | | 0.25 | | 1.22 | 0.81 | * | 1.02 | | 1.87 | 2.42 | * | 2.10 | | | 7.61 | 5.07 | |
| | 14 | 25.00 | 93.35 | 0.02 | 0.05 | 0.18 | 0.15 | | 0.19 | | 1.19 | 0.97 | | 0.99 | | 2.00 | 2.25 | | 2.29 | | | 5.08 | 6.49 | |
| | 15 | 25.50 | 93.30 | 0.03 | 0.08 | 0.26 | 0.20 | | 0.27 | | 1.11 | 1.07 | | 1.09 | | 2.19 | 2.20 | | 2.24 | | | 4.23 | 5.41 | |
| | 16 | 26.00 | 93.35 | 0.08 | 0.19 | 0.48 | 0.36 | | 0.47 | | 1.26 | 1.34 | | 1.36 | | 2.40 | 2.26 | | 2.30 | | | 3.33 | 4.26 | |
| | 17 | 26.50 | 93.25 | 0.19 | 0.46 | 0.92 | 0.67 | * | 0.88 | | 1.48 | 1.73 | | 1.77 | | 2.70 | 2.38 | | 2.42 | | | 2.68 | 3.43 | |
| | 18 | 27.00 | 93.35 | 0.24 | 0.59 | 1.08 | 0.81 | * | 1.07 | | 1.84 | 1.95 | | 1.99 | | 2.73 | 2.58 | | 2.62 | | | 2.74 | 3.51 | |
| | 19 | 27.50 | 92.80 | 0.08 | 0.20 | 0.49 | 0.39 | | 0.51 | | 1.62 | 1.45 | | 1.48 | | 2.31 | 2.45 | | 2.48 | | | 3.60 | 4.61 | |
| | 20 | 28.00 | 92.80 | 0.04 | 0.10 | 0.31 | 0.25 | | 0.33 | | 1.46 | 1.27 | | 1.29 | | 2.36 | 2.55 | | 2.59 | | | 4.75 | 6.07 | |
| * | 21 | 28.50 | 92.55 | 0.04 | 0.09 | 0.30 | 0.20 | | 0.30 | | 0.65 | 0.96 | * | 1.15 | * | 2.48 | 1.87 | * | 2.29 | | | 3.34 | 5.31 | |
| | 22 | 29.00 | 92.35 | 0.07 | 0.17 | 0.44 | 0.33 | | 0.44 | | 1.28 | 1.30 | | 1.33 | | 2.33 | 2.25 | | 2.29 | | | 3.43 | 4.39 | |
| | 23 | 29.50 | 92.35 | 0.12 | 0.28 | 0.65 | 0.50 | | 0.66 | | 1.78 | 1.71 | | 1.75 | | 2.73 | 2.75 | | 2.79 | | | 3.79 | 4.84 | |
| | 24 | 30.00 | 92.35 | 0.14 | 0.35 | 0.69 | 0.53 | | 0.71 | | 1.55 | 1.48 | | 1.50 | | 2.07 | 2.10 | | 2.13 | | | 2.47 | 3.16 | |
| | 25 | 30.50 | 92.30 | 0.13 | 0.32 | 0.65 | 0.50 | | 0.66 | | 1.49 | 1.43 | | 1.45 | | 2.04 | 2.06 | | 2.09 | | | 2.48 | 3.16 | |
| * | 26 | 31.00 | 92.35 | 0.08 | 0.19 | 0.45 | 0.32 | | 0.42 | | 0.83 | 1.03 | | 1.02 | | 1.87 | 1.59 | | 1.57 | | | 2.09 | 2.59 | |
| * | 27 | 31.50 | 92.45 | 0.06 | 0.13 | 0.24 | 0.21 | | 0.24 | | 0.89 | 0.56 | * | 0.44 | * | 0.58 | 0.78 | | 0.58 | | | 0.88 | 0.76 | |
| | 28 | 32.00 | 92.45 | 0.07 | 0.17 | 0.28 | 0.23 | | 0.30 | | 0.63 | 0.52 | | 0.53 | | 0.60 | 0.67 | | 0.68 | | | 0.69 | 0.88 | |
| | 29 | 32.50 | 92.45 | 0.01 | 0.02 | 0.05 | 0.05 | | 0.06 | | 0.45 | 0.26 | | 0.26 | | 0.39 | 0.56 | | 0.56 | | | 1.12 | 1.43 | |
| * | 30 | 33.00 | 92.65 | 1.34 | 0.06 | 0.00 | 0.91 | * | 0.10 | | 0.24 | 0.26 | | 0.16 | | 0.11 | 0.10 | | 0.19 | | | 0.02 | 0.23 | |
| * | 31 | 33.50 | 92.75 | 0.05 | 0.06 | 0.00 | 0.13 | | 0.09 | | 0.21 | 0.22 | | 0.15 | | 0.00 | 0.23 | * | 0.19 | | | 0.18 | 0.23 | |
| * | 32 | 34.00 | 92.95 | 0.38 | 0.09 | 0.00 | 0.54 | * | 0.10 | | 0.22 | 0.24 | | 0.08 | | -0.02 | -0.03 | | 0.07 | | | -0.26 | 0.05 | |
| * | 33 | 34.50 | 92.95 | 0.26 | 0.08 | 0.00 | 0.38 | * | 0.08 | | 0.15 | 0.17 | | 0.06 | | -0.02 | -0.03 | | 0.04 | | | -0.19 | 0.02 | |
| | 34 | 35.00 | 93.15 | 0.00 | 0.01 | -0.05 | -0.04 | | -0.05 | | -0.13 | -0.13 | | -0.13 | | -0.17 | -0.17 | | -0.17 | | | -0.15 | -0.20 | |
| | 35 | 35.50 | 93.35 | 0.02 | 0.06 | -0.02 | -0.02 | | -0.02 | | -0.14 | -0.14 | | -0.15 | | -0.21 | -0.20 | | -0.21 | | | -0.20 | -0.26 | |
| | 36 | 36.00 | 93.35 | -0.01 | -0.02 | -0.02 | -0.04 | | -0.05 | | -0.20 | -0.10 | | -0.10 | | -0.05 | -0.12 | | -0.12 | | | -0.10 | -0.13 | |
| * | 37 | 36.50 | 93.35 | -0.18 | -0.42 | 0.00 | -0.27 | * | -0.35 | * | -0.15 | -0.16 | | -0.16 | | -0.05 | -0.04 | | -0.05 | | | 0.07 | 0.09 | |
| | 38 | 37.00 | 93.35 | 0.16 | 0.39 | 0.00 | 0.15 | | 0.19 | | -0.17 | -0.16 | | -0.17 | | -0.35 | -0.35 | | -0.35 | | | -0.42 | -0.53 | |
| | 39 | 37.50 | 93.25 | 0.13 | 0.31 | -0.04 | 0.03 | | 0.04 | | -0.15 | -0.40 | * | -0.41 | * | -0.80 | -0.62 | | -0.63 | | | -0.64 | -0.82 | |
| | 40 | 38.00 | 93.25 | -0.10 | -0.24 | 0.00 | -0.28 | * | -0.36 | * | 0.00 | -0.49 | * | -0.50 | * | -0.55 | -0.53 | | -0.54 | | | -0.43 | -0.55 | |
| | 41 | 38.56 | 94.85 | | | | | | | | | | | | | | | | | | | | -0.15 | -0.20 |
| | 42 | 38.57 | 98.89 | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | 8 | * | 2 | * | | 7 | * | 5 | * | | 5 | * | 0 | * | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.6 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 3 | | | | | | | | | | | | | | | | | | | | | | | |
|---|----|-------|-------|-------|-------|--------------|-------|--------|-------|-----|-------------|-------|--------|------|---|--------------|-------|--------|-----|---|--------------|-------|-------|
| Transect 6 | | | | | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 93.83 | | 94.13 | | | | 94.64 | | | | 94.99 | | | | 95.56 | | | | | | |
| Disch (cfs) | | | 2 | | 5.00 | | | | 17.00 | | | | 34.00 | | | | 85.00 | | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Orig | Rev | |
| 1 | | 0.00 | 97.69 | | | | | | | | | | | | | | | | | | | | |
| 2 | | 0.10 | 97.40 | | | | | | | | | | | | | | | | | | | | |
| 3 | | 0.90 | 97.26 | | | | | | | | | | | | | | | | | | | | |
| 4 | | 3.00 | 97.83 | | | | | | | | | | | | | | | | | | | | |
| 5 | | 4.70 | 96.76 | | | | | | | | | | | | | | | | | | | | |
| 6 | | 16.00 | 95.73 | | | | | | | | | | | | | | | | | | | | |
| 7 | | 20.40 | 95.00 | | | | | | | | | | | | | | | | | | | | |
| 8 | | 22.90 | 94.65 | | | | | | | | | | | | | | | | | | | -0.1 | -0.34 |
| 9 | | 23.60 | 94.45 | | | | | | | | 0.00 | -0.07 | ***** | | | -0.15 | -0.14 | ***** | | | -0.19 | -0.47 | |
| 10 | | 24.00 | 94.40 | | | | | | | | 0.00 | -0.12 | ***** | | | -0.22 | -0.20 | ***** | | | -0.13 | -0.32 | |
| 11 | | 24.60 | 94.35 | | | | | | | | 0.00 | -0.06 | ***** | | | -0.10 | -0.09 | ***** | | | -0.06 | -0.14 | |
| 12 | | 25.00 | 94.20 | | | | | | | | 0.00 | -0.01 | ***** | | | -0.01 | -0.01 | ***** | | | -0.01 | -0.01 | |
| * | 13 | 25.50 | 94.10 | | | | | | | | 0.29 | 0.59 | * 0.33 | | | -0.06 | -0.22 | ***** | | | -0.51 | -0.62 | |
| * | 14 | 26.00 | 94.00 | | | 0.00 | 2.50 | * 0.10 | | | 0.27 | 0.69 | * 0.18 | | | -0.22 | -0.43 | * 0.24 | | | -0.77 | 0.34 | |
| * | 15 | 26.50 | 93.80 | 0.00 | 0.06 | 0.00 | 0.00 | 0.14 | | | 0.09 | 0.12 | 0.46 | * | | 0.85 | 0.92 | 0.89 | | | 6.67 | 1.91 | |
| * | 16 | 27.00 | 93.70 | 0.00 | 0.03 | 0.00 | 0.01 | 0.09 | | | 0.35 | 0.18 | 0.36 | | | 0.79 | 1.11 | * 0.78 | | | 5.77 | 1.92 | |
| | 17 | 27.50 | 93.60 | 0.04 | 0.03 | 0.09 | 0.09 | 0.09 | | | 0.53 | 0.44 | 0.43 | | | 0.89 | 0.92 | 1.04 | | | 1.17 | 2.99 | |
| | 18 | 28.00 | 93.40 | 0.44 | 0.36 | 0.49 | 0.45 | 0.43 | | | 0.49 | 0.60 | 0.59 | | | 0.78 | 0.61 | 0.69 | | | 0.30 | 0.77 | |
| | 19 | 28.50 | 93.30 | 1.13 | 0.99 | 0.98 | 0.91 | 0.91 | | | 0.87 | 0.89 | 0.87 | | | 0.82 | 0.75 | 0.83 | | | 0.29 | 0.71 | |
| | 20 | 29.00 | 93.10 | 2.54 | 2.45 | 1.42 | 1.32 | 1.39 | | | 0.84 | 0.72 | 0.70 | | | 0.40 | 0.44 | 0.46 | | | 0.11 | 0.24 | |
| | 21 | 29.50 | 92.95 | 0.60 | 0.57 | 0.55 | 0.54 | 0.57 | | | 0.88 | 0.63 | * 0.61 | * | | 0.47 | 0.58 | 0.62 | | | 0.26 | 0.57 | |
| * | 22 | 30.00 | 92.95 | -0.33 | 0.02 | -0.05 | 0.04 | 0.05 | | | 0.99 | 0.53 | * 0.20 | * | | 0.41 | 0.72 | * 0.43 | | | 0.44 | 1.11 | |
| * | 23 | 30.50 | 93.10 | -0.48 | 0.02 | -0.07 | 0.00 | 0.07 | | | 0.89 | 0.62 | * 0.33 | * | | 0.74 | 0.87 | 0.78 | | | 0.55 | 2.26 | |
| | 24 | 31.00 | 93.00 | -0.79 | -0.75 | -0.15 | -0.11 | -0.14 | | | 0.72 | 0.74 | 0.72 | | | 1.23 | 1.10 | 1.24 | | | 0.71 | 1.78 | |
| | 25 | 31.50 | 92.90 | -0.66 | -0.66 | -0.06 | -0.04 | -0.09 | | | 0.58 | 0.73 | 0.72 | | | 1.28 | 1.05 | 1.20 | | | 0.67 | 1.70 | |
| * | 26 | 32.00 | 93.15 | 0.00 | 0.04 | 0.00 | 0.02 | 0.14 | | | 0.84 | 0.47 | * 0.76 | | | 1.78 | 2.40 | * 1.92 | | | 10.22 | 5.90 | |
| * | 27 | 32.50 | 92.85 | -0.84 | -0.78 | -0.06 | -0.08 | -0.04 | | | 0.46 | 0.88 | * 1.02 | * | | 1.77 | 1.28 | * 1.65 | | | 0.82 | 2.29 | |
| * | 28 | 33.00 | 92.80 | 0.00 | 0.05 | 0.00 | 0.01 | 0.15 | | | 0.40 | 0.36 | 0.61 | * | | 1.53 | 2.78 | * 1.35 | | | 20.06 | 3.46 | |
| * | 29 | 33.50 | 92.80 | 0.01 | 0.03 | 0.00 | 0.05 | 0.10 | | | 0.77 | 0.50 | * 0.58 | | | 1.34 | 1.64 | * 1.54 | | | 3.84 | 5.01 | |
| | 30 | 34.00 | 92.50 | 0.11 | 0.33 | 0.00 | 0.24 | * 0.53 | * | | 1.13 | 0.91 | 1.08 | | | 1.52 | 1.63 | 1.59 | | | 1.72 | 2.38 | |
| * | 31 | 34.50 | 92.70 | 0.00 | 0.05 | 0.00 | 0.02 | 0.14 | | | 0.77 | 0.44 | * 0.70 | | | 1.56 | 2.07 | * 1.68 | | | 7.72 | 4.86 | |
| * | 32 | 35.00 | 92.70 | 0.02 | 0.05 | 0.08 | 0.09 | 0.14 | | | 1.44 | 0.74 | * 0.61 | * | | 1.40 | 2.09 | * 1.36 | | | 4.00 | 3.54 | |
| * | 33 | 35.50 | 92.60 | 0.09 | 0.15 | 0.20 | 0.22 | 0.28 | | | 1.97 | 0.98 | * 0.72 | * | | 1.22 | 1.94 | * 1.20 | | | 2.33 | 2.13 | |
| * | 34 | 36.00 | 93.00 | 0.34 | 0.30 | 0.50 | 0.52 | 0.47 | | | 1.99 | 1.22 | * 0.89 | * | | 1.23 | 1.68 | * 1.26 | | | 1.25 | 1.81 | |
| | 35 | 36.50 | 93.00 | 0.71 | 0.60 | 1.02 | 0.99 | 0.97 | | | 2.17 | 2.04 | 1.99 | | | 2.71 | 2.62 | 2.92 | | | 1.77 | 4.40 | |
| | 36 | 37.00 | 92.80 | 0.83 | 0.71 | 1.11 | 1.07 | 1.05 | | | 2.05 | 1.97 | 1.92 | | | 2.51 | 2.38 | 2.66 | | | 1.49 | 3.69 | |
| | 37 | 37.50 | 93.25 | 1.29 | 1.15 | 1.53 | 1.49 | 1.51 | | | 2.85 | 2.40 | 2.33 | | | 2.51 | 2.68 | 2.93 | | | 1.51 | 3.58 | |
| * | 38 | 38.00 | 93.00 | 1.06 | 0.97 | 1.20 | 1.22 | 1.12 | | | 3.07 | 1.95 | * 1.44 | * | | 1.60 | 2.17 | * 1.63 | | | 1.21 | 1.75 | |
| * | 39 | 38.50 | 93.90 | | | 0.75 | 0.76 | 0.70 | | | 1.55 | 0.99 | * 0.73 | * | | 0.72 | 0.98 | * 0.73 | | | 0.47 | 0.67 | |
| * | 40 | 39.00 | 94.15 | | | 0.68 | | * 0.72 | | | 0.98 | 0.66 | * 0.63 | * | | 0.42 | 0.55 | 0.58 | | | 0.21 | 0.46 | |
| | 41 | 39.60 | 95.61 | | | | | | | | | | | | | | | | | | | | |
| | 42 | 42.20 | 94.90 | | | | | | | | | | | | | 0.00 | 0.38 | * 0.10 | | | 0.59 | 0.33 | |
| | 43 | 42.90 | 95.00 | | | | | | | | | | | | | | | | | | 0.53 | 0.30 | |
| | 44 | 43.10 | 97.30 | | | | | | | | | | | | | | | | | | | | |
| | 45 | 43.50 | 97.50 | | | | | | | | | | | | | | | | | | | | |
| | 46 | 43.54 | 97.72 | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | 4 * | | 1 * | | 15 * | | 12 * | | 14 * | | 0 * | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 4. Summary of Calibration Details, Lake Creek Study Site 3 | | | | | | |
|---|----------|----------|----------|----------|----------|----------|
| Trans No. | 1 | 2 | 3 | 4 | 5 | 6 |
| DISCHARGE | | | | | | |
| Meas. | 5 | 7 | 5 | 5 | 4 | 5 |
| | 17 | 18 | 16 | 16 | 18 | 19 |
| | 36 | 39 | 31 | 33 | 38 | 28 |
| Calc. | 5 | 7 | 5 | 6 | 5 | 5 |
| | 16 | 20 | 14 | 17 | 20 | 19 |
| | 34 | 38 | 30 | 34 | 37 | 32 |
| Given | 5 | 5 | 5 | 5 | 5 | 5 |
| | 17 | 17 | 17 | 17 | 17 | 17 |
| | 34 | 34 | 34 | 34 | 34 | 34 |
| Stage (given) | | | | | | |
| | 93.20 | 93.37 | 93.88 | 93.98 | 94.12 | 94.13 |
| | 93.79 | 93.88 | 94.25 | 94.45 | 94.54 | 94.63 |
| | 94.33 | 94.32 | 94.58 | 94.78 | 94.85 | 95.00 |
| Plotting Stage (given) | | | | | | |
| | 0.67 | 1.10 | 1.05 | 1.90 | 1.82 | 1.63 |
| | 1.26 | 1.61 | 1.42 | 2.36 | 2.24 | 2.13 |
| | 1.80 | 2.05 | 1.75 | 2.70 | 2.55 | 2.50 |
| Ratio of Modeled vs Predicted Discharge (given) | | | | | | |
| Based on Stage-Discharge Relationship | | | | | | |
| | 1.0003 | 0.9871 | 0.9758 | 1.0028 | 0.9924 | 0.9940 |
| | 0.9991 | 1.0339 | 1.0618 | 0.9957 | 1.0204 | 1.0163 |
| | 1.0005 | 0.9798 | 0.9652 | 1.0015 | 0.9875 | 0.9900 |
| Mean Error of Stage/Discharge Relationship | | | | | | |
| | 0.0569 | 2.2139 | 3.9724 | 0.2883 | 1.3414 | 1.0733 |
| Stage/Discharge Relationship (S vs Q) $S=A*Q^{**}B+SZF$ | | | | | | |
| A= | 0.2922 | 0.6508 | 0.6810 | 0.7642 | 1.3704 | 1.1376 |
| B= | 0.5156 | 0.3235 | 0.2650 | 0.2702 | 0.1755 | 0.2227 |
| SZF= | 92.53 | 92.27 | 92.83 | 92.08 | 92.30 | 92.50 |
| B Coefficient log/log Relationship (calculated) | | | | | | |
| | 1.939 | 2.646 | 3.774 | 3.406 | 5.871 | 4.193 |

DRAFT

LAKE CREEK INSTREAM FLOW REPORT

CALIBRATION REPORT

STUDY SITE 3, TRANSECTS 1 – 6

HIGH FLOW CALIBRATION REPORT

Prepared for:

Dr. Hal Beecher
Washington Department of Fish and Wildlife Service

Prepared by:

EES Consulting, Inc.

For:

Energy Northwest

MARCH 16, 2007

Table 1a. Velocity Adjustment Factors, Lake Creek Study Site 3, High Velocity Deck.

| Flow | Trans 1 | | Trans 2 | | Trans 3 | |
|------|---------|--------|---------|--------|---------|--------|
| | Orig | Rev | Orig | Rev | Orig | Rev |
| 35 | 0.9009 | 0.9708 | 0.7641 | 0.7666 | 0.9644 | 0.9885 |
| 40 | 0.8388 | 0.9255 | 0.7471 | 0.7517 | 0.8965 | 0.9345 |
| 45 | 0.7859 | 0.8834 | 0.7320 | 0.7387 | 0.8426 | 0.8888 |
| 50 | 0.7422 | 0.8465 | 0.7192 | 0.7276 | 0.8000 | 0.8515 |
| 55 | 0.7060 | 0.8135 | 0.7084 | 0.7185 | 0.7660 | 0.8209 |
| 60 | 0.6759 | 0.7853 | 0.6989 | 0.7110 | 0.7384 | 0.7958 |
| 65 | 0.6507 | 0.7611 | 0.6885 | 0.7044 | 0.7158 | 0.7749 |
| 70 | 0.6293 | 0.7402 | 0.6778 | 0.6986 | 0.6970 | 0.7574 |
| 75 | 0.6109 | 0.7220 | 0.6674 | 0.6935 | 0.6812 | 0.7425 |
| 80 | 0.5949 | 0.7058 | 0.6573 | 0.6891 | 0.6677 | 0.7298 |
| 85 | 0.5805 | 0.6907 | 0.6477 | 0.6853 | 0.6562 | 0.7188 |
| 90 | 0.5681 | 0.6776 | 0.6377 | 0.6818 | 0.6462 | 0.7093 |
| 95 | 0.5571 | 0.6659 | 0.6275 | 0.6786 | 0.6376 | 0.7010 |
| 100 | 0.5474 | 0.6555 | 0.6180 | 0.6757 | 0.6300 | 0.6936 |
| 125 | 0.5116 | 0.6166 | 0.5804 | 0.6660 | 0.6000 | 0.6640 |
| 150 | 0.4890 | 0.5913 | 0.5553 | 0.6615 | 0.5818 | 0.6457 |
| 175 | 0.4736 | 0.5738 | 0.5380 | 0.6599 | 0.5701 | 0.6338 |
| 200 | 0.4625 | 0.5611 | 0.5257 | 0.6601 | 0.5623 | 0.6257 |
| 225 | 0.4542 | 0.5516 | 0.5168 | 0.6615 | 0.5568 | 0.6199 |
| 250 | 0.4479 | 0.5443 | 0.5102 | 0.6637 | 0.5529 | 0.6158 |
| 275 | 0.4429 | 0.5386 | 0.5053 | 0.6664 | 0.5501 | 0.6128 |

Table 1b. Velocity Adjustment Factors, Lake Creek Study Site 3, High Velocity Deck.

| | Trans 4 | | Trans 5 | | Trans 6 | |
|-----|---------|--------|---------|--------|---------|--------|
| | Orig | Rev | Orig | Rev | Orig | Rev |
| 35 | 0.9787 | 0.9847 | 0.9078 | 0.9208 | 1.1992 | 1.2108 |
| 40 | 1.0040 | 1.0077 | 0.9719 | 0.9881 | 1.2870 | 1.2993 |
| 45 | 1.0268 | 1.0278 | 1.0314 | 1.0510 | 1.3692 | 1.3821 |
| 50 | 1.0477 | 1.0457 | 1.0870 | 1.1102 | 1.4469 | 1.4605 |
| 55 | 1.0670 | 1.0619 | 1.1394 | 1.1662 | 1.5209 | 1.5350 |
| 60 | 1.0850 | 1.0767 | 1.1889 | 1.2196 | 1.5916 | 1.6063 |
| 65 | 1.1020 | 1.0903 | 1.2359 | 1.2706 | 1.6595 | 1.6746 |
| 70 | 1.1179 | 1.1030 | 1.2807 | 1.3196 | 1.7247 | 1.7403 |
| 75 | 1.1331 | 1.1148 | 1.3236 | 1.3666 | 1.7876 | 1.8037 |
| 80 | 1.1475 | 1.1258 | 1.3647 | 1.4120 | 1.8485 | 1.8650 |
| 85 | 1.1612 | 1.1358 | 1.4042 | 1.4559 | 1.9074 | 1.9243 |
| 90 | 1.1743 | 1.1440 | 1.4423 | 1.4983 | 1.9647 | 1.9820 |
| 95 | 1.1868 | 1.1521 | 1.4790 | 1.5395 | 2.0204 | 2.0380 |
| 100 | 1.1989 | 1.1600 | 1.5146 | 1.5796 | 2.0746 | 2.0926 |
| 125 | 1.2536 | 1.1953 | 1.6769 | 1.7649 | 2.3234 | 2.3431 |
| 150 | 1.3009 | 1.2257 | 1.8097 | 1.9281 | 2.5402 | 2.5612 |
| 175 | 1.3428 | 1.2524 | 1.9273 | 2.0764 | 2.7400 | 2.7622 |
| 200 | 1.3806 | 1.2755 | 2.0317 | 2.2126 | 2.9252 | 2.9484 |
| 225 | 1.4151 | 1.2964 | 2.1252 | 2.3388 | 3.0983 | 3.1226 |
| 250 | 1.4469 | 1.3154 | 2.2094 | 2.4565 | 3.2613 | 3.2865 |
| 275 | 1.4764 | 1.3323 | 2.2859 | 2.5671 | 3.4157 | 3.4417 |

Table 2. Changes to original data decks, Lake Creek Study Site 3, High Flow Deck

| Trans | Station | High Flow | | Other |
|-------|---------|-----------|------|--|
| | | Orig | Rev | |
| 1 | 9.0 | 0.05 | 0.10 | n 0.2534 to 0.100 |
| | 10.5 | 0.00 | 0.15 | |
| | 15.0 | 0.00 | 0.18 | |
| | 37.55 | 0.00 | 0.18 | |
| | 38.0 | 0.00 | 0.15 | |
| | 43.5 | | | n 0.2458 to 0.15 |
| 2 | 13.0 | | | Elev 94.12 to 94.32 |
| | 13.5 | 0.00 | 0.10 | n 0.2534 to 0.20 |
| | 21.5 | 0.00 | 0.10 | |
| | 39.0 | | | n 2.5345 to 0.20 |
| 3 | 15.0 | | | Elev 94.59 to 94.69 |
| | 19.5 | | | Elev 94.58 to 94.68 |
| | 21.5 | | | n 0.0055 to 0.0115 |
| | 22.5 | | | n 0.0172 to 0.0185 |
| | 23.5 | | | n 0.0111 tp 0.0150 |
| 4 | | | | SZF 92.08 to 93.37 |
| | 28.0 | | | n 2.5342 to 0.17 |
| | 30.5 | | | n 0.0255 to 0.028 |
| | 31.0 | | | n 0.0249 to 0.028 |
| | 31.3 | | | n 0.0269 to 0.026 |
| | 44.0 | | | n n 0.9365 to 0.20 |
| 5 | 21.0 | 0.00 | 0.10 | n 0.2943 to 0.15 |
| | 34.0 | | | n -5.7265 to -1.0 |
| | 35.0 | | | n -0.6253 to -0.48 |
| | 35.5 | | | n -0.4655 to 0.42 |
| | 38.0 | | | n -.1856 to -.14 SZF 93.30 to 93.20 |
| 6 | 22.9 | -0.26 | 0.26 | n -.1418 to 1.00 |
| | 23.6 | -0.15 | 0.15 | |
| | 24.0 | -0.22 | 0.22 | |
| | 24.6 | -0.10 | 0.10 | |

Table 2. Changes to original data decks, Lake Creek Study Site 3, High Flow Deck

| Trans | Station | High Flow | | Other |
|-------|---------|-----------|------|-------------------|
| | | Orig | Rev | |
| | 25.0 | -0.01 | 0.01 | |
| | 25.5 | -0.06 | 0.06 | |
| | 26.0 | -0.22 | 0.22 | |
| | 32.0 | | | n 0.0634 to 0.07 |
| | 32.5 | | | n 0.0703 to 0.078 |
| | 33.0 | | | n 0.0702 to 0.083 |
| | 36.5 | | | n .0437 to 0.60 |
| | 37.0 | | | n 0.0503 to 0.065 |
| | 37.5 | | | n 0.0432 to 0.06 |

| Table 3.1 - Summary of calibration details for original and revised input decks, Lake Creek Study Site 3. Calibration details for Lake Creek Study Site 3, Transect 1 High Velocity Set Calibration | | | | | | | | | | | | | |
|--|----|-------|-------|--------------|-------|--------|--------|-------|-------|-------|-------|-------|-------|
| Transect 1 | | | | | | | | | | | | | |
| WSE (ft) | | 94.37 | | | | 95.59 | | 96.23 | | 97.81 | | | |
| Disch (cfs) | | 34.00 | | | | 85.00 | | 138 | | 275 | | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * Rev | * Orig | Rev | Orig | Rev | Orig | Rev | |
| | 1 | 0.00 | 95.99 | | | | | 0.03 | 0.18 | 0.03 | 0.17 | 0.10 | 0.60 |
| | 2 | 0.90 | 95.21 | | | | | 0.07 | 0.46 | 0.07 | 0.46 | 0.12 | 0.76 |
| | 3 | 1.10 | 95.10 | | | | | 0.04 | 0.24 | 0.08 | 0.49 | 0.13 | 0.78 |
| | 4 | 1.70 | 94.99 | | | | | 0.05 | 0.29 | 0.08 | 0.52 | 0.13 | 0.80 |
| | 5 | 2.00 | 94.76 | | | | | 0.06 | 0.39 | 0.09 | 0.58 | 0.14 | 0.85 |
| | 6 | 8.20 | 94.33 | 0.00 | | | | 0.09 | 0.54 | 0.11 | 0.69 | 0.15 | 0.93 |
| * | 7 | 9.00 | 94.13 | 0.05 | 0.05 | 0.25 | | 0.10 | 0.61 | 0.12 | 0.74 | 0.15 | 0.96 |
| * | 8 | 10.50 | 93.93 | 0.00 | 2.08 | * 0.15 | | 3.20 | 0.25 | 3.66 | 0.29 | 4.59 | 0.37 |
| * | 9 | 12.00 | 93.93 | 0.00 | 2.08 | * 0.18 | | 3.20 | 0.30 | 3.66 | 0.35 | 4.59 | 0.44 |
| | 10 | 13.50 | 94.03 | 1.88 | 1.72 | 1.84 | | 3.05 | 3.62 | 3.55 | 4.30 | 4.51 | 5.53 |
| | 11 | 15.00 | 94.03 | -0.45 | -0.41 | -0.44 | | -0.73 | -0.87 | -0.85 | -1.03 | -1.08 | -1.32 |
| | 12 | 16.50 | 94.28 | 0.00 | 0.21 | * 0.17 | | 1.10 | 1.01 | 1.35 | 1.26 | 1.77 | 1.68 |
| | 13 | 18.00 | 94.56 | | | | | 0.91 | 1.08 | 1.22 | 1.47 | 1.68 | 2.06 |
| | 14 | 19.50 | 94.44 | | | | | 0.99 | 1.18 | 1.27 | 1.54 | 1.72 | 2.11 |
| | 15 | 21.00 | 93.83 | 1.09 | 1.00 | 1.07 | | 1.38 | 1.63 | 1.55 | 1.88 | 1.92 | 2.36 |
| | 16 | 22.50 | 94.51 | | | | | 0.34 | 0.40 | 0.44 | 0.54 | 0.61 | 0.74 |
| | 17 | 24.00 | 94.03 | 0.28 | 0.25 | 0.27 | | 0.45 | 0.53 | 0.52 | 0.63 | 0.66 | 0.81 |
| | 18 | 24.50 | 93.83 | 0.17 | 0.16 | 0.17 | | 0.21 | 0.25 | 0.24 | 0.29 | 0.30 | 0.37 |
| | 19 | 25.00 | 93.83 | 0.63 | 0.58 | 0.62 | | 0.80 | 0.94 | 0.90 | 1.09 | 1.11 | 1.36 |
| | 20 | 25.50 | 93.88 | 0.50 | 0.46 | 0.49 | | 0.66 | 0.79 | 0.75 | 0.91 | 0.94 | 1.15 |
| | 21 | 26.00 | 93.63 | 0.96 | 0.88 | 0.94 | | 1.05 | 1.24 | 1.15 | 1.39 | 1.40 | 1.71 |
| | 22 | 26.50 | 93.73 | 0.10 | 0.09 | 0.10 | | 0.12 | 0.14 | 0.13 | 0.16 | 0.16 | 0.19 |
| | 23 | 27.00 | 93.33 | 0.34 | 0.31 | 0.33 | | 0.32 | 0.38 | 0.35 | 0.42 | 0.41 | 0.50 |
| | 24 | 27.50 | 93.33 | 0.84 | 0.77 | 0.82 | | 0.80 | 0.95 | 0.85 | 1.03 | 1.01 | 1.24 |
| | 25 | 28.00 | 93.23 | 2.07 | 1.89 | 2.03 | | 1.91 | 2.26 | 2.02 | 2.44 | 2.36 | 2.90 |
| | 26 | 28.50 | 92.98 | 2.12 | 1.94 | 2.08 | | 1.84 | 2.17 | 1.90 | 2.30 | 2.19 | 2.68 |
| | 27 | 29.00 | 93.03 | 1.74 | 1.59 | 1.71 | | 1.52 | 1.80 | 1.58 | 1.92 | 1.83 | 2.24 |
| | 28 | 29.30 | 93.03 | 2.68 | 2.45 | 2.63 | | 2.35 | 2.78 | 2.44 | 2.95 | 2.81 | 3.45 |
| | 29 | 29.60 | 92.98 | 2.72 | 2.49 | 2.67 | | 2.50 | 2.97 | 2.64 | 3.20 | 3.09 | 3.79 |
| | 30 | 30.00 | 92.93 | 3.32 | 3.04 | 3.25 | | 3.06 | 3.62 | 3.22 | 3.90 | 3.77 | 4.63 |
| | 31 | 30.30 | 92.88 | 3.30 | 3.02 | 3.23 | | 3.04 | 3.60 | 3.20 | 3.88 | 3.75 | 4.60 |
| | 32 | 30.60 | 92.78 | 3.21 | 2.94 | 3.15 | | 2.67 | 3.16 | 2.73 | 3.31 | 3.10 | 3.80 |
| | 33 | 31.00 | 92.73 | 2.62 | 2.40 | 2.57 | | 2.16 | 2.56 | 2.20 | 2.67 | 2.49 | 3.06 |
| | 34 | 31.30 | 92.63 | 1.64 | 1.56 | 1.68 | | 1.39 | 1.64 | 1.41 | 1.70 | 1.58 | 1.94 |
| | 35 | 31.60 | 92.63 | 1.42 | 1.30 | 1.39 | | 1.15 | 1.37 | 1.17 | 1.41 | 1.32 | 1.61 |
| | 36 | 32.00 | 92.63 | 1.35 | 1.24 | 1.32 | | 1.10 | 1.30 | 1.11 | 1.34 | 1.25 | 1.53 |
| | 37 | 32.30 | 92.63 | 1.31 | 1.20 | 1.28 | | 1.06 | 1.26 | 1.08 | 1.30 | 1.21 | 1.49 |
| | 38 | 32.60 | 92.53 | 1.68 | 1.54 | 1.65 | | 1.34 | 1.59 | 1.35 | 1.64 | 1.52 | 1.86 |
| | 39 | 33.00 | 92.63 | 2.51 | 2.30 | 2.46 | | 2.04 | 2.41 | 2.06 | 2.50 | 2.32 | 2.85 |
| | 40 | 33.30 | 92.58 | 3.44 | 3.15 | 3.37 | | 2.77 | 3.28 | 2.80 | 3.39 | 3.14 | 3.86 |
| | 41 | 33.60 | 92.63 | 4.13 | 3.78 | 4.05 | | 3.35 | 3.97 | 3.40 | 4.11 | 3.82 | 4.69 |
| | 42 | 34.00 | 92.73 | 4.52 | 4.14 | 4.43 | | 3.73 | 4.42 | 3.80 | 4.60 | 4.30 | 5.28 |
| | 43 | 34.30 | 92.78 | 4.34 | 3.97 | 4.25 | | 3.61 | 4.28 | 3.69 | 4.47 | 4.19 | 5.14 |
| | 44 | 34.60 | 92.98 | 4.13 | 3.78 | 4.05 | | 3.58 | 4.23 | 3.70 | 4.48 | 4.26 | 5.23 |
| | 45 | 35.00 | 93.03 | 3.04 | 2.78 | 2.98 | | 2.80 | 3.31 | 2.95 | 3.57 | 3.45 | 4.24 |
| | 46 | 35.30 | 93.13 | 3.14 | 2.87 | 3.08 | | 2.91 | 3.44 | 3.07 | 3.72 | 3.60 | 4.42 |
| | 47 | 35.60 | 93.03 | 2.49 | 2.28 | 2.44 | | 2.31 | 2.74 | 2.45 | 2.96 | 2.87 | 3.52 |
| | 48 | 36.00 | 93.43 | 1.49 | 1.36 | 1.46 | | 1.48 | 1.75 | 1.59 | 1.92 | 1.89 | 2.32 |
| | 49 | 36.50 | 93.73 | 1.23 | 1.12 | 1.21 | | 1.43 | 1.70 | 1.59 | 1.93 | 1.95 | 2.39 |
| | 50 | 37.00 | 93.73 | 0.90 | 0.82 | 0.88 | | 1.05 | 1.24 | 1.17 | 1.41 | 1.43 | 1.75 |
| * | 51 | 37.55 | 93.88 | 0.00 | 0.68 | * 0.18 | | 0.98 | 0.28 | 1.12 | 0.33 | 1.39 | 0.41 |
| * | 52 | 38.00 | 93.98 | 0.00 | 0.57 | * 0.15 | | 0.94 | 0.27 | 1.09 | 0.31 | 1.37 | 0.40 |
| | 53 | 43.54 | 95.32 | | | | | 0.15 | 0.07 | 0.59 | 0.28 | 1.03 | 0.49 |
| Total | | | | | 5 | * 0 | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.2 - Summary of calibration details for original and revised input decks, Lake Creek Study Site 3.
Calibration details for Lake Creek Study Site 3, Transect 2. High Velocity Set Calibration

| | | Transect 2 | | | | | | | | | | | |
|-------|-------|------------|-------|-------|--------|-------|--------|-------|--------|-------|-------|------|-----|
| | | 94.31 | | | 95.01 | | 96.21 | | 97.61 | | | | |
| | | 34.00 | | | 85.00 | | 138.00 | | 275.00 | | | | |
| Rv Pt | Sta | Elev | Meas | Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev |
| 1 | 0.00 | 95.68 | | | | | | 0.87 | 0.16 | 1.84 | 0.39 | | |
| 2 | 0.10 | 95.52 | | | | | | 1.03 | 0.19 | 1.94 | 0.41 | | |
| 3 | 4.30 | 95.05 | | | | 0.83 | 0.14 | 1.46 | 0.27 | 2.22 | 0.47 | | |
| 4 | 5.00 | 95.64 | | | | | | 0.91 | 0.17 | 1.86 | 0.39 | | |
| 5 | 5.20 | 94.90 | | | | 1.02 | 0.17 | 1.59 | 0.30 | 2.30 | 0.48 | | |
| 6 | 10.90 | 94.03 | | | | 0.85 | 0.14 | 1.48 | 0.28 | 2.23 | 0.47 | | |
| 7 | 12.00 | 95.50 | | | | | | 1.05 | 0.20 | 1.95 | 0.41 | | |
| 8 | 13.00 | 94.32 | | | | 1.65 | 0.28 | 2.03 | 0.38 | 2.62 | 0.55 | | |
| 9 | 13.50 | 94.12 | | | | 1.84 | 0.31 | 2.17 | 0.40 | 2.73 | 0.57 | | |
| 10 | 14.00 | 94.55 | | | | 1.42 | 1.50 | 1.86 | 2.18 | 2.50 | 3.30 | | |
| 11 | 14.50 | 94.62 | | | | 1.34 | 1.42 | 1.81 | 2.12 | 2.46 | 3.25 | | |
| 12 | 15.00 | 94.22 | 0.50 | 0.56 | 0.56 | 1.74 | 1.84 | 2.10 | 2.46 | 2.68 | 3.53 | | |
| 13 | 15.50 | 94.12 | 0.46 | 0.44 | 0.44 | 1.06 | 1.12 | 1.26 | 1.47 | 1.58 | 2.08 | | |
| 14 | 16.00 | 94.12 | 0.66 | 0.63 | 0.63 | 1.52 | 1.61 | 1.80 | 2.11 | 2.27 | 2.99 | | |
| 15 | 16.50 | 94.12 | 0.41 | 0.39 | 0.39 | 0.95 | 1.00 | 1.12 | 1.31 | 1.41 | 1.86 | | |
| 16 | 17.00 | 94.12 | 0.75 | 0.72 | 0.72 | 1.73 | 1.83 | 2.05 | 2.40 | 2.57 | 3.39 | | |
| 17 | 17.50 | 94.02 | 0.56 | 0.50 | 0.50 | 1.03 | 1.09 | 1.20 | 1.41 | 1.49 | 1.97 | | |
| 18 | 18.00 | 94.45 | | | | 1.00 | 1.06 | 1.28 | 1.50 | 1.69 | 2.23 | | |
| 19 | 18.50 | 94.02 | 0.69 | 0.62 | 0.62 | 1.27 | 1.35 | 1.48 | 1.73 | 1.84 | 2.48 | | |
| 20 | 19.00 | 94.02 | 0.43 | 0.38 | 0.39 | 0.79 | 0.84 | 0.92 | 1.08 | 1.15 | 1.51 | | |
| 21 | 19.50 | 94.02 | 0.39 | 0.35 | 0.35 | 0.72 | 0.76 | 0.84 | 0.98 | 1.04 | 1.37 | | |
| 22 | 20.00 | 93.82 | 0.47 | 0.40 | 0.41 | 0.74 | 0.78 | 0.85 | 0.99 | 1.04 | 1.37 | | |
| 23 | 20.50 | 93.82 | 0.51 | 0.44 | 0.44 | 0.80 | 0.85 | 0.92 | 1.07 | 1.13 | 1.48 | | |
| 24 | 21.00 | 94.02 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | | |
| 25 | 21.50 | 94.12 | 0.00 | 0.56 | * 0.10 | 1.36 | 0.24 | 1.61 | 0.32 | 2.02 | 0.45 | | |
| 26 | 22.00 | 94.12 | 0.59 | 0.56 | 0.56 | 1.36 | 1.44 | 1.61 | 1.89 | 2.02 | 2.67 | | |
| 27 | 22.60 | 94.02 | 0.41 | 0.37 | 0.37 | 0.76 | 0.80 | 0.88 | 1.03 | 1.09 | 1.44 | | |
| 28 | 23.00 | 93.97 | 0.46 | 0.40 | 0.40 | 0.78 | 0.83 | 0.90 | 1.06 | 1.12 | 1.47 | | |
| 29 | 23.50 | 93.83 | 0.35 | 0.30 | 0.30 | 0.51 | 0.54 | 0.57 | 0.67 | 0.70 | 0.92 | | |
| 30 | 24.00 | 93.68 | 0.27 | 0.22 | 0.22 | 0.35 | 0.37 | 0.38 | 0.45 | 0.46 | 0.61 | | |
| 31 | 24.50 | 93.83 | 0.47 | 0.40 | 0.40 | 0.68 | 0.72 | 0.77 | 0.90 | 0.93 | 1.23 | | |
| 32 | 25.00 | 93.26 | 1.01 | 0.81 | 0.81 | 1.06 | 1.13 | 1.14 | 1.33 | 1.31 | 1.73 | | |
| 33 | 25.50 | 93.27 | 1.10 | 0.89 | 0.89 | 1.16 | 1.23 | 1.24 | 1.45 | 1.44 | 1.90 | | |
| 34 | 26.00 | 93.27 | 1.84 | 1.48 | 1.48 | 1.95 | 2.06 | 2.08 | 2.43 | 2.41 | 3.17 | | |
| 35 | 26.50 | 93.17 | 2.11 | 1.69 | 1.70 | 2.16 | 2.29 | 2.29 | 2.68 | 2.64 | 3.48 | | |
| 36 | 27.00 | 93.17 | 2.50 | 2.00 | 2.01 | 2.56 | 2.71 | 2.72 | 3.18 | 3.12 | 4.12 | | |
| 37 | 27.30 | 93.27 | 2.55 | 2.05 | 2.06 | 2.70 | 2.85 | 2.88 | 3.37 | 3.33 | 4.40 | | |
| 38 | 27.60 | 93.17 | 2.51 | 2.01 | 2.02 | 2.57 | 2.72 | 2.73 | 3.19 | 3.14 | 4.13 | | |
| 39 | 28.00 | 93.27 | 2.20 | 1.77 | 1.78 | 2.33 | 2.46 | 2.48 | 2.91 | 2.88 | 3.79 | | |
| 40 | 28.30 | 93.27 | 3.08 | 2.48 | 2.49 | 3.26 | 3.45 | 3.48 | 4.07 | 4.03 | 5.31 | | |
| 41 | 28.60 | 93.27 | 3.78 | 3.04 | 3.05 | 4.00 | 4.23 | 4.27 | 5.00 | 4.94 | 6.52 | | |
| 42 | 29.00 | 92.97 | 4.40 | 3.51 | * 3.51 | 4.29 | 4.54 | 4.48 | 5.25 | 5.08 | 6.70 | | |
| 43 | 29.30 | 92.97 | 3.97 | 3.16 | * 3.17 | 3.87 | 4.09 | 4.04 | 4.73 | 4.59 | 6.05 | | |
| 44 | 29.60 | 92.97 | 3.36 | 2.68 | * 2.68 | 3.27 | 3.46 | 3.42 | 4.01 | 3.88 | 5.12 | | |
| 45 | 30.00 | 92.67 | 2.24 | 1.77 | * 1.78 | 2.06 | 2.18 | 2.12 | 2.48 | 2.36 | 3.11 | | |
| 46 | 30.30 | 92.67 | 1.44 | 1.14 | * 1.14 | 1.32 | 1.40 | 1.36 | 1.59 | 1.52 | 2.00 | | |
| 47 | 30.60 | 92.67 | 0.85 | 0.67 | 0.67 | 0.78 | 0.83 | 0.80 | 0.94 | 0.90 | 1.18 | | |
| 48 | 31.00 | 92.87 | 0.22 | 0.17 | 0.18 | 0.21 | 0.22 | 0.22 | 0.26 | 0.25 | 0.32 | | |
| 49 | 31.50 | 92.67 | 0.24 | 0.19 | 0.19 | 0.22 | 0.23 | 0.23 | 0.27 | 0.25 | 0.33 | | |
| 50 | 32.00 | 92.57 | 0.83 | 0.66 | 0.66 | 0.75 | 0.79 | 0.77 | 0.90 | 0.85 | 1.12 | | |
| 51 | 32.30 | 92.57 | 2.09 | 1.65 | * 1.66 | 1.89 | 2.00 | 1.93 | 2.26 | 2.15 | 2.83 | | |
| 52 | 32.60 | 92.37 | 3.26 | 2.57 | * 2.58 | 2.87 | 3.04 | 2.91 | 3.40 | 3.19 | 4.21 | | |
| 53 | 33.00 | 92.27 | 4.28 | 3.37 | * 3.38 | 3.72 | 3.94 | 3.75 | 4.40 | 4.11 | 5.42 | | |
| 54 | 33.30 | 92.27 | 5.01 | 3.94 | * 3.95 | 4.36 | 4.61 | 4.40 | 5.15 | 4.81 | 6.34 | | |
| 55 | 33.60 | 92.47 | 4.87 | 3.84 | * 3.85 | 4.34 | 4.60 | 4.42 | 5.18 | 4.88 | 6.44 | | |
| 56 | 34.00 | 92.57 | 4.60 | 3.63 | * 3.64 | 4.16 | 4.41 | 4.25 | 4.98 | 4.72 | 6.23 | | |
| 57 | 34.60 | 92.67 | 3.13 | 2.48 | * 2.48 | 2.88 | 3.05 | 2.96 | 3.46 | 3.30 | 4.35 | | |
| 58 | 35.00 | 92.97 | 1.61 | 1.28 | * 1.29 | 1.57 | 1.66 | 1.64 | 1.92 | 1.86 | 2.45 | | |
| 59 | 35.50 | 93.17 | 0.88 | 0.71 | 0.71 | 0.90 | 0.95 | 0.96 | 1.12 | 1.10 | 1.45 | | |
| 60 | 36.00 | 93.27 | 0.49 | 0.39 | 0.40 | 0.52 | 0.55 | 0.55 | 0.65 | 0.64 | 0.84 | | |
| 61 | 36.50 | 93.38 | 0.22 | 0.18 | 0.18 | 0.24 | 0.26 | 0.26 | 0.31 | 0.30 | 0.40 | | |
| 62 | 37.00 | 93.53 | 0.08 | 0.07 | 0.07 | 0.09 | 0.10 | 0.10 | 0.12 | 0.12 | 0.16 | | |
| 63 | 37.50 | 93.72 | -0.21 | -0.18 | -0.18 | -0.33 | -0.35 | -0.38 | -0.44 | -0.46 | -0.61 | | |
| 64 | 38.00 | 93.92 | -0.28 | -0.24 | -0.24 | -0.45 | -0.47 | -0.51 | -0.60 | -0.63 | -0.83 | | |
| 65 | 39.00 | 94.12 | 0.01 | 0.01 | 0.12 | 0.02 | 0.31 | 0.03 | 0.40 | 0.03 | 0.57 | | |
| 66 | 39.61 | 94.32 | | 0.00 | 0.05 | 0.02 | 0.28 | 0.03 | 0.38 | 0.03 | 0.55 | | |
| 67 | 39.62 | 94.41 | | | | 0.02 | 0.26 | 0.02 | 0.37 | 0.03 | 0.54 | | |
| Total | | | | 16 | * | 12 | * | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.3 - Summary of calibration details for original and revised input decks, Lake Creek Study Site 3. Calibration details for Lake Creek Study Site 3, Transect 3. High Velocity Set Calibration

| Transect 3 | | | | | | | | | | | | | | |
|------------|----|-------------|-------|-------------|------|---|------|-------|-------|-------|-------|--------|-------|------|
| | | WSE (ft) | | 94.66 | | | | 95.49 | | 96.07 | | 97.13 | | |
| | | Disch (cfs) | | 34.00 | | | | 85.00 | | 138 | | 275.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * | Rev | * | Orig | Rev | Orig | Rev | Orig | Rev |
| 1 | | 0.00 | 97.35 | | | | | | | | | | | |
| 2 | | 0.20 | 97.20 | | | | | | | | | | | |
| 3 | | 10.50 | 95.77 | | | | | | | | | | | |
| * | 4 | 15.00 | 94.59 | | 0.35 | * | | | 0.81 | 1.34 | 0.57 | 0.63 | 1.47 | 1.64 |
| * | 5 | 19.50 | 94.58 | | 0.38 | * | | | 0.82 | 1.35 | 1.67 | 1.76 | 2.23 | 2.42 |
| | 6 | 20.50 | 94.38 | 0.74 | 0.90 | | 0.92 | | 1.05 | 1.67 | 1.82 | 2.02 | 2.24 | 2.43 |
| * | 7 | 21.50 | 94.53 | 1.61 | 3.32 | * | 1.62 | | 4.86 | 4.52 | 10.66 | 5.65 | 14.12 | 7.52 |
| * | 8 | 22.50 | 94.38 | 1.47 | 1.79 | * | 1.70 | | 2.08 | 3.10 | 3.62 | 3.74 | 4.68 | 4.86 |
| * | 9 | 23.50 | 94.48 | 1.44 | 2.06 | * | 1.55 | | 2.91 | 3.59 | 5.42 | 4.43 | 7.11 | 5.84 |
| | 10 | 24.50 | 94.23 | 1.97 | 2.31 | | 2.35 | | 2.20 | 3.95 | 4.26 | 4.72 | 5.46 | 6.09 |
| | 11 | 25.00 | 94.28 | 2.17 | 2.47 | | 2.53 | | 2.58 | 3.96 | 4.23 | 4.69 | 5.39 | 6.00 |
| | 12 | 25.60 | 94.28 | 1.50 | 1.71 | | 1.75 | | 1.78 | 2.74 | 2.93 | 3.24 | 3.73 | 4.15 |
| | 13 | 26.00 | 94.28 | 1.80 | 2.05 | | 2.09 | | 2.14 | 3.29 | 3.51 | 3.89 | 4.47 | 4.98 |
| | 14 | 26.50 | 94.33 | 0.73 | 0.86 | | 0.87 | | 0.94 | 1.46 | 1.58 | 1.75 | 2.02 | 2.26 |
| | 15 | 27.00 | 94.18 | 0.02 | 0.02 | | 0.02 | | 0.02 | 0.04 | 0.04 | 0.05 | 0.05 | 0.06 |
| | 16 | 27.50 | 93.83 | 0.00 | 0.16 | | 0.16 | | 0.39 | 0.19 | 0.20 | 0.22 | 0.24 | 0.27 |
| | 17 | 28.00 | 93.78 | 0.42 | 0.44 | | 0.45 | | 1.76 | 0.50 | 0.50 | 0.56 | 0.60 | 0.67 |
| | 18 | 28.50 | 93.78 | 0.97 | 0.94 | | 0.96 | | 6.59 | 1.08 | 1.07 | 1.19 | 1.29 | 1.44 |
| | 19 | 29.00 | 93.68 | 1.84 | 1.76 | | 1.79 | | 14.72 | 1.95 | 1.93 | 2.14 | 2.30 | 2.56 |
| | 20 | 29.50 | 93.68 | 3.23 | 3.34 | | 3.41 | | 4.70 | 3.70 | 3.66 | 4.06 | 4.37 | 4.87 |
| | 21 | 30.00 | 93.68 | 3.48 | 3.60 | | 3.67 | | 4.45 | 3.99 | 3.95 | 4.37 | 4.71 | 5.24 |
| | 22 | 30.50 | 93.58 | 3.51 | 3.40 | | 3.47 | | 7.69 | 3.66 | 3.58 | 3.97 | 4.24 | 4.72 |
| | 23 | 31.00 | 93.68 | 3.63 | 3.83 | | 3.90 | | 2.40 | 4.66 | 4.72 | 5.23 | 5.76 | 6.41 |
| | 24 | 31.50 | 93.78 | 2.25 | 2.37 | | 2.42 | | 1.33 | 2.89 | 2.93 | 3.24 | 3.57 | 3.98 |
| | 25 | 32.00 | 93.58 | 2.12 | 2.18 | | 2.23 | | 1.51 | 2.35 | 2.30 | 2.55 | 2.72 | 3.03 |
| | 26 | 32.50 | 93.08 | 1.80 | 1.82 | | 1.86 | | 3.55 | 1.78 | 1.68 | 1.87 | 1.93 | 2.14 |
| | 27 | 33.00 | 92.98 | 2.59 | 2.62 | | 2.67 | | 1.93 | 2.52 | 2.37 | 2.63 | 2.70 | 3.00 |
| | 28 | 33.50 | 92.98 | 2.03 | 2.05 | | 2.09 | | 2.30 | 1.97 | 1.86 | 2.06 | 2.11 | 2.35 |
| | 29 | 34.00 | 93.08 | 1.19 | 1.21 | | 1.23 | | 0.88 | 1.17 | 1.11 | 1.23 | 1.27 | 1.42 |
| | 30 | 34.50 | 92.83 | 1.98 | 2.00 | | 2.04 | | 1.68 | 1.88 | 1.76 | 1.95 | 1.99 | 2.21 |
| | 31 | 35.00 | 92.88 | 2.97 | 3.00 | | 3.06 | | 2.65 | 2.84 | 2.67 | 2.96 | 3.02 | 3.36 |
| | 32 | 35.50 | 93.58 | 3.39 | 3.49 | | 3.56 | | 2.92 | 3.76 | 3.68 | 4.08 | 4.36 | 4.85 |
| | 33 | 36.00 | 93.28 | 3.53 | 3.59 | | 3.67 | | 2.94 | 3.62 | 3.47 | 3.85 | 4.02 | 4.47 |
| | 34 | 36.50 | 93.28 | 2.46 | 2.50 | | 2.56 | | 1.84 | 2.52 | 2.42 | 2.68 | 2.80 | 3.12 |
| | 35 | 37.00 | 93.38 | 2.35 | 2.40 | | 2.45 | | 1.80 | 2.46 | 2.38 | 2.64 | 2.77 | 3.09 |
| | 36 | 37.50 | 93.68 | 2.01 | 2.12 | | 2.16 | | 2.31 | 2.56 | 2.60 | 2.88 | 3.16 | 3.52 |
| | 37 | 38.00 | 93.88 | 1.75 | 1.58 | | 1.61 | | 6.78 | 1.88 | 1.90 | 2.10 | 2.31 | 2.57 |
| | 38 | 38.50 | 93.98 | 1.09 | 1.06 | | 1.08 | | 4.66 | 1.33 | 1.36 | 1.51 | 1.67 | 1.86 |
| | 39 | 39.00 | 94.18 | 0.05 | 0.06 | | 0.06 | | 0.01 | 0.08 | 0.08 | 0.09 | 0.10 | 0.12 |
| | 40 | 39.50 | 94.43 | 0.00 | 0.03 | | 0.03 | | 0.27 | 0.07 | 0.08 | 0.08 | 0.10 | 0.11 |
| | 41 | 39.80 | 94.58 | | 0.02 | | 0.02 | | 0.22 | 0.06 | 0.07 | 0.08 | 0.10 | 0.11 |
| | 42 | 40.80 | 94.92 | | | | | | 0.09 | 0.05 | 0.06 | 0.07 | 0.09 | 0.10 |
| | 43 | 41.80 | 95.76 | | | | | | | | 0.02 | 0.03 | 0.06 | 0.07 |
| | 44 | 43.00 | 97.38 | | | | | | | | | | | |
| | 45 | 43.09 | 97.50 | | | | | | | | | | | |
| Total | | | | | 5 * | | 0 * | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3-4 - Summary of calibration details for original and revised input decks, Lake Creek Study Site 3. Calibration details for Lake Creek Study Site 3, Transect 4. High Velocity Set Calibration | | | | | | | | | | | | | |
|---|----|-------|-------|------|------|-------|-------|------|--------|------|--------|-------|------|
| Transect 4 | | | | | | | | | | | | | |
| WSE (ft) | | | 94.81 | | | | 95.54 | | 96.06 | | 97.02 | | |
| Disch (cfs) | | | 34.00 | | | | 85.00 | | 138.00 | | 275.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * Rev | * Rev | Orig | Rev | Orig | Rev | Orig | Rev |
| 1 | | 0.00 | 98.08 | | | | | | | | | | |
| 2 | | 0.20 | 97.89 | | | | | | | | | | |
| 3 | | 3.00 | 97.76 | | | | | | | | | | |
| 4 | | 4.20 | 97.00 | | | | | | | | | 0.00 | 0.05 |
| 5 | | 12.30 | 96.07 | | | | | | | | | 0.04 | 0.57 |
| 6 | | 13.00 | 96.36 | | | | | | | | | 0.03 | 0.44 |
| 7 | | 14.20 | 95.53 | | | | | 0.00 | 0.02 | 0.02 | 0.35 | 0.06 | 0.76 |
| 8 | | 24.00 | 94.78 | 0.00 | 0.00 | 0.04 | | 0.03 | 0.41 | 0.04 | 0.63 | 0.07 | 1.00 |
| 9 | | 25.00 | 94.73 | 0.00 | 0.01 | 0.08 | | 0.03 | 0.43 | 0.05 | 0.64 | 0.08 | 1.02 |
| 10 | | 26.00 | 94.73 | 0.00 | 0.01 | 0.08 | | 0.03 | 0.43 | 0.05 | 0.64 | 0.08 | 1.02 |
| 11 | | 27.00 | 94.68 | 0.00 | 0.01 | 0.11 | | 0.03 | 0.45 | 0.05 | 0.66 | 0.08 | 1.03 |
| 12 | | 28.00 | 94.58 | 0.01 | 0.01 | 0.16 | | 0.03 | 0.48 | 0.05 | 0.69 | 0.08 | 1.06 |
| 13 | | 28.60 | 94.58 | 0.50 | 0.54 | 0.54 | | 1.66 | 1.62 | 2.44 | 2.32 | 3.95 | 3.56 |
| 14 | | 29.00 | 94.43 | 0.63 | 0.65 | 0.65 | | 1.58 | 1.55 | 2.26 | 2.14 | 3.56 | 3.21 |
| 15 | | 29.50 | 94.23 | 1.22 | 1.23 | 1.24 | | 2.53 | 2.48 | 3.49 | 3.31 | 5.35 | 4.83 |
| 16 | | 30.00 | 94.03 | 2.44 | 2.20 | 2.21 | | 4.08 | 3.99 | 5.48 | 5.19 | 8.21 | 7.41 |
| 17 | | 30.50 | 93.93 | 2.62 | 2.61 | 2.39 | | 4.66 | 4.15 | 6.20 | 5.35 | 9.19 | 7.55 |
| 18 | | 31.00 | 93.53 | 3.48 | 3.44 | 3.08 | | 5.55 | 4.82 | 7.14 | 6.00 | 10.23 | 8.20 |
| 19 | | 31.30 | 93.53 | 3.22 | 3.19 | 3.08 | | 5.14 | 4.82 | 6.60 | 6.00 | 9.47 | 8.20 |
| 20 | | 31.60 | 93.33 | 3.00 | 2.96 | 2.98 | | 4.62 | 4.52 | 5.86 | 5.55 | 8.29 | 7.48 |
| 21 | | 32.00 | 93.28 | 2.95 | 2.91 | 2.93 | | 4.50 | 4.41 | 5.70 | 5.40 | 8.04 | 7.25 |
| 22 | | 32.30 | 93.13 | 2.82 | 2.66 | 2.68 | | 4.04 | 3.95 | 5.07 | 4.81 | 7.09 | 6.39 |
| 23 | | 32.60 | 93.18 | 2.41 | 2.38 | 2.39 | | 3.63 | 3.55 | 4.57 | 4.33 | 6.40 | 5.78 |
| 24 | | 33.00 | 93.08 | 1.83 | 1.80 | 1.81 | | 2.72 | 2.66 | 3.41 | 3.23 | 4.75 | 4.28 |
| 25 | | 33.30 | 92.98 | 1.68 | 1.65 | 1.66 | | 2.47 | 2.41 | 3.08 | 2.92 | 4.27 | 3.85 |
| 26 | | 33.60 | 92.98 | 1.76 | 1.73 | 1.74 | | 2.59 | 2.53 | 3.23 | 3.06 | 4.47 | 4.03 |
| 27 | | 34.00 | 92.98 | 1.68 | 1.65 | 1.66 | | 2.47 | 2.41 | 3.08 | 2.92 | 4.27 | 3.85 |
| 28 | | 34.30 | 92.98 | 1.78 | 1.75 | 1.76 | | 2.62 | 2.56 | 3.26 | 3.09 | 4.52 | 4.08 |
| 29 | | 34.60 | 92.80 | 1.75 | 1.72 | 1.73 | | 2.52 | 2.47 | 3.13 | 2.96 | 4.29 | 3.87 |
| 30 | | 35.00 | 93.53 | 2.69 | 2.66 | 2.68 | | 4.29 | 4.20 | 5.52 | 5.23 | 7.91 | 7.14 |
| 31 | | 35.30 | 93.48 | 1.84 | 1.82 | 1.83 | | 2.91 | 2.84 | 3.72 | 3.53 | 5.32 | 4.80 |
| 32 | | 35.60 | 93.48 | 1.49 | 1.47 | 1.48 | | 2.35 | 2.30 | 3.02 | 2.86 | 4.31 | 3.89 |
| 33 | | 36.00 | 93.33 | 1.31 | 1.29 | 1.30 | | 2.02 | 1.97 | 2.56 | 2.42 | 3.62 | 3.27 |
| 34 | | 36.30 | 92.93 | 1.28 | 1.26 | 1.27 | | 1.87 | 1.83 | 2.33 | 2.21 | 3.22 | 2.90 |
| 35 | | 36.60 | 92.93 | 1.13 | 1.11 | 1.12 | | 1.65 | 1.62 | 2.06 | 1.95 | 2.84 | 2.56 |
| 36 | | 37.00 | 93.28 | 1.80 | 1.78 | 1.79 | | 2.75 | 2.69 | 3.48 | 3.30 | 4.90 | 4.43 |
| 37 | | 37.30 | 92.88 | 0.99 | 0.97 | 0.98 | | 1.44 | 1.41 | 1.79 | 1.69 | 2.46 | 2.22 |
| 38 | | 37.60 | 92.88 | 1.13 | 1.11 | 1.12 | | 1.64 | 1.61 | 2.04 | 1.93 | 2.81 | 2.54 |
| 39 | | 38.00 | 93.43 | 2.10 | 2.08 | 2.09 | | 3.29 | 3.21 | 4.20 | 3.98 | 5.98 | 5.39 |
| 40 | | 38.30 | 93.38 | 1.79 | 1.77 | 1.78 | | 2.78 | 2.72 | 3.54 | 3.35 | 5.02 | 4.53 |
| 41 | | 38.60 | 93.48 | 1.98 | 1.96 | 1.97 | | 3.13 | 3.06 | 4.01 | 3.80 | 5.72 | 5.17 |
| 42 | | 39.00 | 93.43 | 1.42 | 1.40 | 1.41 | | 2.22 | 2.17 | 2.84 | 2.69 | 4.04 | 3.65 |
| 43 | | 39.30 | 93.38 | 1.40 | 1.38 | 1.39 | | 2.17 | 2.12 | 2.77 | 2.62 | 3.92 | 3.54 |
| 44 | | 39.60 | 93.33 | 1.44 | 1.42 | 1.43 | | 2.22 | 2.17 | 2.81 | 2.67 | 3.98 | 3.59 |
| 45 | | 40.00 | 93.53 | 1.45 | 1.43 | 1.44 | | 2.31 | 2.26 | 2.97 | 2.82 | 4.26 | 3.85 |
| 46 | | 40.30 | 93.88 | 1.20 | 1.19 | 1.20 | | 2.10 | 2.05 | 2.78 | 2.63 | 4.10 | 3.70 |
| 47 | | 40.60 | 93.78 | 1.23 | 1.22 | 1.23 | | 2.08 | 2.04 | 2.73 | 2.59 | 4.00 | 3.61 |
| 48 | | 41.00 | 93.78 | 1.26 | 1.26 | 1.27 | | 2.32 | 2.26 | 3.10 | 2.94 | 4.64 | 4.19 |
| 49 | | 41.30 | 93.73 | 1.13 | 1.12 | 1.13 | | 1.89 | 1.85 | 2.46 | 2.33 | 3.59 | 3.24 |
| 50 | | 41.60 | 93.78 | 1.85 | 1.84 | 1.85 | | 3.13 | 3.07 | 4.11 | 3.89 | 6.01 | 5.42 |
| 51 | | 42.00 | 93.78 | 1.33 | 1.32 | 1.33 | | 2.25 | 2.20 | 2.95 | 2.80 | 4.32 | 3.90 |
| 52 | | 42.30 | 93.58 | 0.85 | 0.84 | 0.85 | | 1.37 | 1.34 | 1.77 | 1.67 | 2.54 | 2.30 |
| 53 | | 42.60 | 93.68 | 1.16 | 1.15 | 1.16 | | 1.91 | 1.87 | 2.49 | 2.36 | 3.61 | 3.26 |
| 54 | | 43.00 | 93.78 | 1.05 | 1.05 | 1.06 | | 1.92 | 1.88 | 2.57 | 2.44 | 3.84 | 3.47 |
| 55 | | 43.30 | 94.18 | 0.66 | 0.66 | 0.67 | | 1.32 | 1.30 | 1.81 | 1.72 | 2.76 | 2.49 |
| 56 | | 44.00 | 94.28 | 0.05 | 0.05 | 0.24 | | 0.11 | 0.49 | 0.15 | 0.66 | 0.23 | 0.98 |
| 57 | | 45.00 | 94.78 | 0.00 | 0.01 | 0.04 | | 0.08 | 0.35 | 0.12 | 0.53 | 0.20 | 0.85 |
| 58 | | 46.10 | 97.05 | | | | | | | | | | |
| 59 | | 46.25 | 97.19 | | | | | | | | | | |
| Total | | | | | 0 * | 0 * | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%.

| Table 3.5 - Summary of calibration details for original and revised input decks, Lake Creek Study Site 3. Calibration details for Lake Creek Study Site 3, Transect 5. High Velocity Set Calibration | | | | | | | | | | | | | |
|---|----|-------------|-------|--------------|-------|---------|-------|--------|-------|--------|-------|-------|------|
| Transect 5 | | | | | | | | | | | | | |
| | | WSE (ft) | | 94.86 | | 95.40 | | 95.75 | | 96.35 | | | |
| | | Disch (cfs) | | 34.00 | | 85.00 | | 138.00 | | 275.00 | | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * Rev * | Orig | Rev | Orig | Rev | Orig | Rev | |
| | 1 | 0.00 | 97.71 | | | | | | | | | | |
| | 2 | 0.15 | 97.61 | | | | | | | | | | |
| | 3 | 2.00 | 97.41 | | | | | | | | | | |
| | 4 | 2.60 | 96.77 | | | | | | | | | | |
| | 5 | 17.00 | 95.69 | | | | | | | | | | |
| | 6 | 20.20 | 94.85 | | | | | | | 0.54 | 0.14 | 3.50 | 0.97 |
| | 7 | 21.00 | 94.55 | 0.00 | 0.07 | * 0.18 | 1.89 | 0.48 | 3.28 | 0.86 | 6.05 | 1.68 | |
| | 8 | 22.00 | 94.00 | 1.35 | 1.22 | 1.24 | 2.43 | 0.62 | 3.87 | 1.01 | 6.71 | 1.86 | |
| | 9 | 22.50 | 93.85 | 2.04 | 1.83 | 1.86 | 3.01 | 3.12 | 4.52 | 4.79 | 7.46 | 8.38 | |
| | 10 | 23.00 | 93.75 | 2.07 | 1.86 | 1.89 | 3.84 | 3.98 | 5.48 | 5.81 | 8.62 | 9.68 | |
| | 11 | 23.50 | 93.60 | 1.89 | 1.70 | 1.72 | 3.81 | 3.95 | 5.40 | 5.72 | 8.43 | 9.46 | |
| | 12 | 24.00 | 93.45 | 1.81 | 1.63 | 1.65 | 3.39 | 3.51 | 4.75 | 5.03 | 7.33 | 8.24 | |
| | 13 | 24.50 | 93.40 | 1.87 | 1.68 | 1.70 | 3.17 | 3.29 | 4.41 | 4.68 | 6.74 | 7.57 | |
| | 14 | 25.00 | 93.35 | 2.00 | 1.80 | 1.82 | 3.25 | 3.37 | 4.52 | 4.79 | 6.88 | 7.73 | |
| | 15 | 25.50 | 93.30 | 2.19 | 1.97 | 1.99 | 3.46 | 3.59 | 4.79 | 5.08 | 7.28 | 8.17 | |
| | 16 | 26.00 | 93.35 | 2.40 | 2.15 | 2.18 | 3.77 | 3.91 | 5.20 | 5.51 | 7.88 | 8.85 | |
| | 17 | 26.50 | 93.25 | 2.70 | 2.42 | 2.46 | 4.15 | 4.30 | 5.75 | 6.09 | 8.74 | 9.81 | |
| | 18 | 27.00 | 93.35 | 2.73 | 2.45 | 2.48 | 4.62 | 4.79 | 6.37 | 6.74 | 9.62 | 10.80 | |
| | 19 | 27.50 | 92.80 | 2.31 | 2.07 | 2.10 | 4.72 | 4.90 | 6.54 | 6.93 | 9.94 | 11.16 | |
| | 20 | 28.00 | 92.80 | 2.36 | 2.12 | 2.15 | 3.80 | 3.94 | 5.15 | 5.46 | 7.63 | 8.57 | |
| | 21 | 28.50 | 92.55 | 2.48 | 2.22 | 2.25 | 3.88 | 4.03 | 5.27 | 5.58 | 7.80 | 8.76 | |
| | 22 | 29.00 | 92.35 | 2.33 | 2.08 | 2.11 | 4.02 | 4.17 | 5.41 | 5.73 | 7.94 | 8.92 | |
| | 23 | 29.50 | 92.35 | 2.73 | 2.45 | 2.48 | 3.73 | 3.87 | 4.99 | 5.29 | 7.29 | 8.18 | |
| | 24 | 30.00 | 92.35 | 2.07 | 1.86 | 1.88 | 4.38 | 4.54 | 5.86 | 6.21 | 8.56 | 9.61 | |
| | 25 | 30.50 | 92.30 | 2.04 | 1.83 | 1.85 | 3.32 | 3.44 | 4.45 | 4.71 | 6.49 | 7.28 | |
| | 26 | 31.00 | 92.35 | 1.87 | 1.68 | 1.70 | 3.26 | 3.38 | 4.37 | 4.63 | 6.36 | 7.14 | |
| | 27 | 31.50 | 92.45 | 0.58 | 0.52 | 0.53 | 3.00 | 3.11 | 4.02 | 4.26 | 5.86 | 6.58 | |
| | 28 | 32.00 | 92.45 | 0.60 | 0.54 | 0.55 | 0.93 | 0.97 | 1.26 | 1.33 | 1.84 | 2.06 | |
| | 29 | 32.50 | 92.45 | 0.39 | 0.35 | 0.35 | 0.97 | 1.00 | 1.30 | 1.38 | 1.90 | 2.13 | |
| | 30 | 33.00 | 92.65 | 0.11 | 0.10 | 0.10 | 0.63 | 0.65 | 0.84 | 0.89 | 1.23 | 1.39 | |
| | 31 | 33.50 | 92.75 | 0.00 | 0.10 | 0.10 | 0.18 | 0.19 | 0.24 | 0.26 | 0.36 | 0.40 | |
| * | 32 | 34.00 | 92.95 | -0.02 | -0.02 | -0.10 | 0.17 | 0.18 | 0.24 | 0.25 | 0.35 | 0.39 | |
| | 33 | 34.50 | 92.95 | -0.02 | -0.02 | -0.10 | -0.03 | -0.20 | -0.05 | -0.28 | -0.07 | -0.43 | |
| * | 34 | 35.00 | 93.15 | -0.17 | -0.15 | -0.20 | -0.03 | -0.20 | -0.05 | -0.28 | -0.07 | -0.43 | |
| * | 35 | 35.50 | 93.35 | -0.21 | -0.19 | -0.21 | -0.29 | -0.39 | -0.40 | -0.55 | -0.59 | -0.87 | |
| | 36 | 36.00 | 93.35 | -0.05 | -0.04 | -0.05 | -0.36 | -0.42 | -0.50 | -0.59 | -0.76 | -0.95 | |
| | 37 | 36.50 | 93.35 | -0.05 | -0.04 | -0.05 | -0.09 | -0.09 | -0.12 | -0.13 | -0.18 | -0.20 | |
| | 38 | 37.00 | 93.35 | -0.35 | -0.31 | -0.32 | -0.09 | -0.09 | -0.12 | -0.13 | -0.18 | -0.20 | |
| | 39 | 37.50 | 93.25 | -0.80 | -0.72 | -0.73 | -0.61 | -0.63 | -0.84 | -0.89 | -1.27 | -1.43 | |
| | 40 | 38.00 | 93.25 | -0.55 | -0.49 | -0.66 | -1.37 | -1.42 | -1.89 | -2.00 | -2.85 | -3.20 | |
| | 41 | 38.56 | 94.85 | | -0.01 | -0.02 | -0.94 | -1.29 | -1.30 | -1.82 | -1.96 | -2.92 | |
| | 42 | 38.57 | 98.89 | | | | -0.38 | -0.52 | -0.65 | -0.92 | -1.21 | -1.80 | |
| Total | | | | | 1 * | 0 * | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3.6 - Summary of calibration details for original and revised input decks, Lake Creek Study Site 3. | | | | | | | | | | | | |
|---|----|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|------|
| Calibration details for Lake Creek Study Site 3, Transect 6. High Velocity Set Calibration | | | | | | | | | | | | |
| Calibration details for Lake Creek Study Site 3 | | | | | | | | | | | | |
| Transect 6 | | | | | | | | | | | | |
| WSE (ft) | | | 94.96 | | | 95.48 | | 95.79 | | 96.31 | | |
| Disch (cfs) | | | 34.00 | | | 85.00 | | 138.00 | | 275.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | Rev * | Orig | Rev | Orig | Rev | Orig | Rev |
| | 1 | 0.00 | 97.69 | | | | | | | | | |
| | 2 | 0.10 | 97.40 | | | | | | | | | |
| | 3 | 0.90 | 97.26 | | | | | | | | | |
| | 4 | 3.00 | 97.83 | | | | | | | | | |
| | 5 | 4.70 | 96.76 | | | | | | | | | |
| | 6 | 16.00 | 95.73 | | | | | | | | | |
| | 7 | 20.40 | 95.00 | | | | | | | | | |
| * | 8 | 22.90 | 94.65 | -0.26 | -0.27 | 0.40 | -0.61 | 0.87 | -0.21 | 0.29 | -1.43 | 1.77 |
| | 9 | 23.60 | 94.45 | -0.15 | -0.16 | 0.17 | -0.88 | 1.26 | -1.15 | 1.57 | -2.47 | 3.07 |
| | 10 | 24.00 | 94.40 | -0.22 | -0.23 | 0.25 | -0.44 | 0.44 | -0.70 | 0.67 | -2.90 | 3.60 |
| | 11 | 24.60 | 94.35 | -0.10 | -0.11 | 0.11 | -0.62 | 0.63 | -0.99 | 0.95 | -1.33 | 1.17 |
| | 12 | 25.00 | 94.20 | -0.01 | -0.01 | 0.01 | -0.28 | 0.28 | -0.44 | 0.42 | -1.88 | 1.64 |
| | 13 | 25.50 | 94.10 | -0.06 | -0.06 | 0.07 | -0.03 | 0.03 | -0.04 | 0.04 | -0.82 | 0.72 |
| | 14 | 26.00 | 94.00 | -0.22 | -0.24 | 0.25 | -0.15 | 0.16 | -0.24 | 0.23 | -0.08 | 0.07 |
| | 15 | 26.50 | 93.80 | 0.85 | 0.93 | 0.99 | -0.44 | 0.44 | -0.70 | 0.67 | -0.44 | 0.39 |
| | 16 | 27.00 | 93.70 | 0.79 | 0.86 | 0.92 | -0.55 | 0.55 | -0.83 | 0.80 | -1.52 | 1.33 |
| | 17 | 27.50 | 93.60 | 0.89 | 0.98 | 1.04 | 2.03 | 2.05 | 3.06 | 2.94 | 5.48 | 4.79 |
| | 18 | 28.00 | 93.40 | 0.78 | 0.86 | 0.91 | 1.86 | 1.87 | 2.78 | 2.67 | 4.96 | 4.33 |
| | 19 | 28.50 | 93.30 | 0.82 | 0.90 | 0.96 | 2.07 | 2.08 | 3.08 | 2.96 | 5.45 | 4.76 |
| | 20 | 29.00 | 93.10 | 0.40 | 0.44 | 0.47 | 1.78 | 1.79 | 2.61 | 2.51 | 4.58 | 4.00 |
| | 21 | 29.50 | 92.95 | 0.47 | 0.52 | 0.55 | 1.85 | 1.86 | 2.71 | 2.61 | 4.73 | 4.13 |
| | 22 | 30.00 | 92.95 | 0.41 | 0.45 | 0.48 | 0.89 | 0.89 | 1.29 | 1.24 | 2.24 | 1.95 |
| | 23 | 30.50 | 93.10 | 0.74 | 0.81 | 0.86 | 1.03 | 1.04 | 1.50 | 1.44 | 2.57 | 2.25 |
| | 24 | 31.00 | 93.00 | 1.23 | 1.36 | 1.44 | 0.90 | 0.91 | 1.31 | 1.26 | 2.25 | 1.96 |
| | 25 | 31.50 | 92.90 | 1.28 | 1.41 | 1.50 | 1.63 | 1.64 | 2.38 | 2.28 | 4.11 | 3.59 |
| * | 26 | 32.00 | 93.15 | 1.78 | 1.96 | 1.89 | 2.71 | 2.73 | 3.94 | 3.78 | 6.78 | 5.93 |
| | 27 | 32.50 | 92.85 | 1.77 | 1.95 | 1.88 | 2.81 | 2.82 | 4.06 | 3.90 | 6.97 | 6.09 |
| * | 28 | 33.00 | 92.80 | 1.53 | 1.69 | 1.79 | 3.96 | 3.61 | 5.77 | 5.02 | 10.00 | 7.91 |
| * | 29 | 33.50 | 92.80 | 1.34 | 1.48 | 1.47 | 3.87 | 3.51 | 5.59 | 4.84 | 9.58 | 7.55 |
| | 30 | 34.00 | 92.50 | 1.52 | 1.68 | 1.79 | 3.34 | 3.34 | 4.81 | 4.60 | 8.23 | 7.16 |
| | 31 | 34.50 | 92.70 | 1.56 | 1.72 | 1.84 | 2.92 | 2.74 | 4.21 | 3.78 | 7.21 | 5.88 |
| | 32 | 35.00 | 92.70 | 1.40 | 1.55 | 1.47 | 3.27 | 3.29 | 4.68 | 4.50 | 7.93 | 6.93 |
| | 33 | 35.50 | 92.60 | 1.22 | 1.27 | 1.35 | 3.38 | 3.41 | 4.87 | 4.68 | 8.30 | 7.26 |
| | 34 | 36.00 | 93.00 | 1.23 | 1.35 | 1.44 | 3.04 | 2.73 | 4.37 | 3.75 | 7.45 | 5.81 |
| * | 35 | 36.50 | 93.00 | 2.71 | 2.99 | 2.32 | 2.48 | 2.50 | 3.56 | 3.42 | 6.06 | 5.30 |
| * | 36 | 37.00 | 92.80 | 2.51 | 2.77 | 2.29 | 2.70 | 2.72 | 3.92 | 3.77 | 6.75 | 5.90 |
| * | 37 | 37.50 | 93.25 | 2.51 | 2.76 | 2.12 | 5.98 | 4.39 | 8.67 | 6.08 | 14.94 | 9.52 |
| | 38 | 38.00 | 93.00 | 1.60 | 1.76 | 1.88 | 5.47 | 4.27 | 7.89 | 5.88 | 13.50 | 9.14 |
| | 39 | 38.50 | 93.90 | 0.72 | 0.78 | 0.84 | 5.64 | 4.08 | 8.25 | 5.71 | 14.36 | 9.03 |
| | 40 | 39.00 | 94.15 | 0.42 | 0.46 | 0.49 | 3.53 | 3.55 | 5.12 | 4.92 | 8.82 | 7.71 |
| | 41 | 39.60 | 95.61 | | | | 1.75 | 1.76 | 2.65 | 2.55 | 4.79 | 4.19 |
| | 42 | 42.20 | 94.90 | 0.00 | 0.08 | 0.08 | 1.04 | 1.05 | 1.59 | 1.53 | 2.89 | 2.53 |
| | 43 | 42.90 | 95.00 | | | | 0.35 | 0.33 | 0.35 | 0.33 | 1.30 | 1.13 |
| | 44 | 43.10 | 97.30 | | | | 0.62 | 0.62 | 1.11 | 1.07 | 2.31 | 2.02 |
| | 45 | 43.50 | 97.50 | | | | 0.54 | 0.55 | 1.03 | 0.99 | 2.20 | 1.93 |
| | 46 | 43.54 | 97.72 | | | | | | | | | |
| Total | | | | 0 * | | 0 * | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 4. Summary of Calibration Details, Lake Creek Study Site 3 | | | | | | |
|---|----------|----------|----------|----------|----------|----------|
| Trans No. | 1 | 2 | 3 | 4 | 5 | 6 |
| DISCHARGE | | | | | | |
| Meas. | 5 | | | 5 | 4 | 5 |
| | 17 | 18 | 16 | 16 | 18 | 19 |
| | 36 | 39 | 31 | 33 | 38 | 28 |
| | 138 | 138 | 138 | 138 | 138 | 138 |
| Calc. | 5 | | | 6 | 5 | 5 |
| | 16 | 20 | 14 | 17 | 20 | 19 |
| | 34 | 38 | 30 | 34 | 37 | 32 |
| | 138 | 138 | 138 | 138 | 138 | 138 |
| Given | 5 | | | 5 | 5 | 5 |
| | 17 | 17 | 17 | 17 | 17 | 17 |
| | 34 | 34 | 34 | 34 | 34 | 34 |
| | 138 | 138 | 138 | 138 | 138 | 138 |
| Stage (given) | 93.20 | | | 93.98 | 94.12 | 94.13 |
| | 93.79 | 93.88 | 94.25 | 94.45 | 94.54 | 94.63 |
| | 94.33 | 94.32 | 94.58 | 94.78 | 94.85 | 95.00 |
| | 96.23 | 96.25 | 96.11 | 96.08 | 95.76 | 95.76 |
| Plotting Stage (given) | 0.67 | | | 0.61 | 0.92 | 1.63 |
| | 1.26 | 1.61 | 1.42 | 1.07 | 1.34 | 2.13 |
| | 1.80 | 2.05 | 1.75 | 1.41 | 1.65 | 2.50 |
| | 3.69 | 3.98 | 3.28 | 2.71 | 2.55 | 3.26 |
| Ratio of Modeled vs Predicted Discharge (given) | | | | | | |
| Based on Stage-Discharge Relationship | | | | | | |
| | 1.0012 | | | 1.0009 | 1.0002 | 1.0409 |
| | 0.9986 | 0.9780 | 0.9247 | 0.9634 | 0.9884 | 0.9871 |
| | 0.9992 | 0.9407 | 0.9743 | 1.0498 | 1.0167 | 0.9192 |
| | 1.0010 | 1.0870 | 1.1100 | 0.9870 | 0.9949 | 1.0588 |
| Mean Error of Stage/Discharge Relationship | | | | | | |
| | 0.1120 | 5.5181 | 6.8960 | 2.5131 | 0.8378 | 4.8960 |
| Stage/Discharge Relationship (S vs Q) $S=A*Q**B+SZF$ | | | | | | |
| A= | 0.2968 | 0.4501 | 0.4313 | 0.3040 | 0.5609 | 1.1732 |
| B= | 0.5149 | 0.4404 | 0.4093 | 0.4432 | 0.3074 | 0.2095 |
| SZF= | 92.53 | 92.27 | 92.83 | 93.37 | 93.20 | 92.50 |
| B Coefficient log/log Relationship (calculated) | | | | | | |
| | 1.942 | 2.271 | 2.443 | 2.257 | 3.253 | 4.773 |

DRAFT

CALIBRATION REPORT
LAKE CREEK INSTREAM FLOW STUDY
STUDY SITE 4
TRANSECTS 1 – 11
3 VELOCITY SET CALIBRATION

Prepared for:

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Prepared by:

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For:

Energy Northwest

March 16, 2007

| Table 1a. Original and revised Velocity Adjustment Factors, Lake Creek Study Site 4. | | | | | | | | |
|---|----------------|------------|----------------|------------|----------------|------------|----------------|------------|
| | Trans 1 | | Trans 2 | | Trans 3 | | Trans 4 | |
| Flow | Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev |
| 2 | 0.5711 | 0.6119 | 0.0135 | 0.8651 | 0.7555 | 0.7943 | 0.8345 | 0.8918 |
| 3 | 0.7463 | 0.7899 | 0.0436 | 0.9355 | 0.8526 | 0.8747 | 0.8888 | 0.9260 |
| 4 | 0.8607 | 0.8918 | 0.0962 | 0.9726 | 0.9204 | 0.9277 | 0.9277 | 0.9487 |
| 5 | 0.8159 | 0.8598 | 0.1677 | 0.9748 | 0.9698 | 0.9641 | 0.9572 | 0.9647 |
| 6 | 0.8798 | 0.9407 | 0.2493 | 0.9869 | 1.0071 | 0.9905 | 0.9801 | 0.9763 |
| 7 | 0.9281 | 0.9848 | 0.3296 | 0.9967 | 1.0357 | 1.0099 | 0.9980 | 0.9849 |
| 8 | 0.9616 | 1.0313 | 0.4011 | 1.0044 | 1.0577 | 1.0242 | 1.0122 | 0.9913 |
| 9 | 0.9874 | 1.0700 | 0.4605 | 1.0105 | 1.0746 | 1.0347 | 1.0232 | 0.9959 |
| 10 | 1.0055 | 1.0999 | 0.5076 | 1.0154 | 1.0875 | 1.0423 | 1.0315 | 0.9992 |
| 12 | 1.0245 | 1.1391 | 0.5720 | 1.0221 | 1.1042 | 1.0513 | 1.0418 | 1.0026 |
| 14 | 0.9876 | 1.1015 | 0.6091 | 1.0258 | 1.1120 | 1.0544 | 1.0445 | 1.0022 |
| 16 | 0.9798 | 1.0984 | 0.6311 | 1.0276 | 1.1136 | 1.0536 | 1.0418 | 0.9996 |
| 18 | 0.9670 | 1.0885 | 0.6435 | 1.0271 | 1.1105 | 1.0502 | 1.0353 | 0.9958 |
| 20 | 0.9450 | 1.0746 | 0.6499 | 1.0228 | 1.1039 | 1.0450 | 1.0259 | 0.9911 |
| 25 | 0.9004 | 1.0330 | 0.6536 | 0.9955 | 1.0778 | 1.0269 | 0.9936 | 0.9778 |
| 30 | 0.8558 | 0.9898 | 0.6506 | 0.9648 | 1.0430 | 1.0049 | 0.9533 | 0.9635 |
| 35 | 0.8121 | 0.9482 | 0.6411 | 0.9337 | 1.0042 | 0.9816 | 0.9086 | 0.9490 |
| 40 | 0.7695 | 0.9092 | 0.6303 | 0.9063 | 0.9637 | 0.9581 | 0.8618 | 0.9346 |
| 45 | 0.7282 | 0.8730 | 0.6183 | 0.8825 | 0.9234 | 0.9357 | 0.8146 | 0.9205 |
| 50 | 0.6882 | 0.8396 | 0.6046 | 0.8618 | 0.8841 | 0.9144 | 0.7680 | 0.9067 |
| 55 | 0.6498 | 0.8088 | 0.5900 | 0.8433 | 0.8459 | 0.8941 | 0.7229 | 0.8934 |
| 60 | 0.6130 | 0.7803 | 0.5742 | 0.8265 | 0.8091 | 0.8749 | 0.6798 | 0.8806 |
| 65 | 0.5777 | 0.7539 | 0.5578 | 0.8112 | 0.7738 | 0.8567 | 0.6388 | 0.8682 |
| 70 | 0.5441 | 0.7293 | 0.5408 | 0.7970 | 0.7401 | 0.8394 | 0.6001 | 0.8562 |
| 75 | 0.5122 | 0.7063 | 0.5234 | 0.7837 | 0.7080 | 0.8230 | 0.5639 | 0.8446 |
| 80 | 0.4819 | 0.6849 | 0.5056 | 0.7711 | 0.6774 | 0.8075 | 0.5300 | 0.8334 |
| 85 | 0.4534 | 0.6647 | 0.4875 | 0.7591 | 0.6483 | 0.7928 | 0.4984 | 0.8226 |

| Table 1b. Original and revised Velocity Adjustment Factors, Lake Creek Study Site 4. | | | | | | | | |
|---|----------------|------------|----------------|------------|----------------|------------|----------------|------------|
| | Trans 5 | | Trans 6 | | Trans 7 | | Trans 8 | |
| Flow | Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev |
| 2 | 0.8554 | 0.8719 | 0.5618 | 0.7946 | 0.7492 | 0.7892 | 1.3878 | 1.0229 |
| 3 | 0.9009 | 0.9218 | 0.7062 | 0.8376 | 0.8544 | 0.8821 | 1.1744 | 1.0146 |
| 4 | 0.9140 | 0.9403 | 0.8247 | 0.9107 | 0.9257 | 0.9437 | 1.0794 | 1.0022 |
| 5 | 0.9305 | 0.9594 | 0.9096 | 0.9644 | 0.9770 | 0.9864 | 1.0322 | 0.9950 |
| 6 | 0.9471 | 0.9771 | 0.9595 | 1.0050 | 0.9955 | 1.0052 | 1.0063 | 0.9911 |
| 7 | 0.9625 | 0.9921 | 1.0043 | 1.0361 | 1.0186 | 1.0100 | 0.9913 | 0.9891 |
| 8 | 0.9767 | 1.0046 | 1.0388 | 1.0555 | 1.0094 | 1.0081 | 0.9825 | 0.9883 |
| 9 | 0.9892 | 1.0142 | 1.0656 | 1.0699 | 1.0170 | 1.0158 | 0.9774 | 0.9882 |
| 10 | 1.0003 | 1.0218 | 1.0353 | 1.0484 | 1.0228 | 1.0217 | 0.9747 | 0.9885 |
| 12 | 1.0176 | 1.0317 | 1.0611 | 1.0570 | 1.0202 | 1.0172 | 0.9732 | 0.9898 |
| 14 | 1.0268 | 1.0330 | 1.0745 | 1.0615 | 1.0224 | 1.0200 | 0.9744 | 0.9914 |
| 16 | 1.0313 | 1.0294 | 1.0832 | 1.0649 | 1.0216 | 1.0199 | 0.9767 | 0.9929 |
| 18 | 1.0326 | 1.0242 | 1.0864 | 1.0658 | 1.0201 | 1.0188 | 0.9794 | 0.9943 |
| 20 | 1.0314 | 1.0160 | 1.0854 | 1.0645 | 1.0172 | 1.0161 | 0.9822 | 0.9954 |
| 25 | 1.0190 | 0.9982 | 1.0693 | 1.0534 | 1.0022 | 1.0020 | 0.9876 | 0.9971 |
| 30 | 0.9943 | 0.9832 | 1.0375 | 1.0346 | 0.9836 | 0.9848 | 0.9909 | 0.9975 |
| 35 | 0.9623 | 0.9690 | 1.0005 | 1.0121 | 0.9631 | 0.9665 | 0.9920 | 0.9971 |
| 40 | 0.9220 | 0.9537 | 0.9621 | 0.9879 | 0.9408 | 0.9455 | 0.9914 | 0.9960 |
| 45 | 0.8765 | 0.9379 | 0.9240 | 0.9630 | 0.9174 | 0.9235 | 0.9891 | 0.9944 |
| 50 | 0.8275 | 0.9217 | 0.8873 | 0.9382 | 0.8940 | 0.9000 | 0.9855 | 0.9924 |
| 55 | 0.7776 | 0.9065 | 0.8521 | 0.9138 | 0.8718 | 0.8762 | 0.9807 | 0.9901 |
| 60 | 0.7278 | 0.8921 | 0.8188 | 0.8901 | 0.8517 | 0.8555 | 0.9750 | 0.9876 |
| 65 | 0.6794 | 0.8790 | 0.7872 | 0.8671 | 0.8335 | 0.8369 | 0.9686 | 0.9850 |
| 70 | 0.6327 | 0.8668 | 0.7569 | 0.8449 | 0.8168 | 0.8203 | 0.9615 | 0.9822 |
| 75 | 0.5881 | 0.8555 | 0.7279 | 0.8234 | 0.8016 | 0.8052 | 0.9538 | 0.9793 |
| 80 | 0.5459 | 0.8443 | 0.7002 | 0.8028 | 0.7876 | 0.7915 | 0.9458 | 0.9763 |
| 85 | 0.5062 | 0.8337 | 0.6737 | 0.7829 | 0.7747 | 0.7789 | 0.9373 | 0.9732 |

Table 1c. Original and revised Velocity Adjustment Factors, Lake Creek Study Site 4

| Flow | Trans 9 | | Trans 10 | | Trans 11 | |
|------|---------|--------|----------|--------|----------|--------|
| | Orig | Rev | Orig | Rev | Orig | Rev |
| 2 | 0.5962 | 0.6651 | 1.5891 | 1.0529 | 0.8644 | 0.8954 |
| 3 | 0.7325 | 0.7834 | 1.2309 | 1.0200 | 0.9305 | 0.9508 |
| 4 | 0.8370 | 0.8668 | 1.1340 | 1.0172 | 0.9757 | 0.9883 |
| 5 | 0.9183 | 0.9278 | 1.0628 | 0.9975 | 0.9997 | 0.9876 |
| 6 | 0.9817 | 0.9735 | 1.0531 | 1.0071 | 1.0204 | 1.0053 |
| 7 | 1.0311 | 1.0081 | 1.0502 | 1.0154 | 1.0147 | 1.0154 |
| 8 | 1.1008 | 1.0249 | 1.0499 | 1.0219 | 1.0240 | 1.0239 |
| 9 | 1.1351 | 1.0427 | 1.0506 | 1.0266 | 1.0305 | 1.0299 |
| 10 | 1.1599 | 1.0562 | 1.0515 | 1.0300 | 1.0351 | 1.0340 |
| 12 | 1.1888 | 1.0737 | 1.0529 | 1.0334 | 1.0401 | 1.0382 |
| 14 | 1.1983 | 1.0823 | 1.0533 | 1.0339 | 1.0415 | 1.0389 |
| 16 | 1.1950 | 1.0845 | 1.0518 | 1.0317 | 1.0403 | 1.0373 |
| 18 | 1.1832 | 1.0823 | 1.0489 | 1.0278 | 1.0377 | 1.0343 |
| 20 | 1.1658 | 1.0769 | 1.0448 | 1.0226 | 1.0341 | 1.0303 |
| 25 | 1.1122 | 1.0567 | 1.0306 | 1.0064 | 1.0224 | 1.0179 |
| 30 | 1.0538 | 1.0310 | 1.0127 | 0.9878 | 1.0084 | 1.0036 |
| 35 | 0.9959 | 1.0027 | 0.9920 | 0.9677 | 0.9937 | 0.9886 |
| 40 | 0.9416 | 0.9737 | 0.9685 | 0.9459 | 0.9787 | 0.9735 |
| 45 | 0.8917 | 0.9453 | 0.9457 | 0.9254 | 0.9636 | 0.9586 |
| 50 | 0.8462 | 0.9179 | 0.9235 | 0.9058 | 0.9488 | 0.9439 |
| 55 | 0.8050 | 0.8918 | 0.9018 | 0.8870 | 0.9340 | 0.9295 |
| 60 | 0.7675 | 0.8669 | 0.8807 | 0.8690 | 0.9196 | 0.9155 |
| 65 | 0.7333 | 0.8433 | 0.8604 | 0.8519 | 0.9053 | 0.9017 |
| 70 | 0.7017 | 0.8206 | 0.8409 | 0.8355 | 0.8912 | 0.8883 |
| 75 | 0.6729 | 0.7992 | 0.8221 | 0.8198 | 0.8774 | 0.8751 |
| 80 | 0.6465 | 0.7790 | 0.8041 | 0.8049 | 0.8639 | 0.8622 |
| 85 | 0.6222 | 0.7599 | 0.7868 | 0.7906 | 0.8505 | 0.8496 |

Table 2. Changes to original data decks, Lake Creek Study Site 4.

| Trans | Station | Low Flow | | Middle Flow | | High Flow | | Other |
|-------|---------|----------|------|-------------|-------|-----------|------|---------------------|
| | | Orig | Rev | Orig | Rev | Orig | Rev | |
| 1 | 4.2 | | | | | | | Elev 94.64 to 94.66 |
| | 5.0 | | | | | | | Elev 94.04 to 94.27 |
| | 9.0 | | | 0.17 | 0.40 | 1.33 | 1.30 | |
| | 18.0 | | | | | 0.00 | 0.18 | |
| | 19.0 | | | 0.16 | 0.25 | 0.65 | 0.60 | |
| | 19.5 | | | 0.28 | 0.40 | 0.24 | 0.20 | |
| | 21.5 | 0.10 | 0.15 | 0.23 | 0.51 | | | |
| | 22.0 | | | | | | | Elev 93.64 to 93.78 |
| | 24.0 | 0.00 | 0.18 | | | 2.52 | 2.40 | |
| | 23.5 | | | 1.16 | 1.33 | 2.74 | 3.00 | |
| | 25.0 | | | | | 0.75 | 0.90 | |
| | 27.0 | 0.21 | 0.10 | 0.43 | 0.20 | 0.06 | 0.21 | |
| | 28.0 | 0.78 | 0.60 | 1.04 | 0.45 | 0.15 | 0.35 | |
| | 29.0 | 0.62 | 0.45 | 0.33 | 0.40 | 0.30 | 0.45 | |
| | 32.0 | | | | | 0.74 | 0.65 | |
| | 34.5 | | | | | | | Elev 94.34 to 94.15 |
| | 35.0 | | | 2.77 | 2.40 | 2.71 | 3.00 | Elev 93.64 to 93.78 |
| | 37.0 | | | | | 1.45 | 2.00 | |
| | 38.0 | | | 0.30 | 0.61 | | | |
| | 40.0 | | | | | 0.00 | 0.10 | |
| 42.0 | | | | | -0.15 | 0.15 | | |
| 2 | 2.0 | | | | | | | Elev 96.17 to 96.22 |
| | 2.7 | | | | | 0.00 | 0.10 | |
| | 3.4 | | | | | 0.00 | 0.10 | |
| | 5.9 | | | | | | | Elev 96.17 to 96.22 |
| | 6.4 | | | | | 0.00 | 0.10 | |
| | 7.0 | | | | | 0.00 | 0.10 | Elev 95.27 to 95.55 |
| | 8.0 | | | | | 0.00 | 0.10 | Elev 95.37 to 95.65 |
| | 9.0 | | | | | 0.00 | 0.10 | Elev 95.47 to 95.77 |
| | 9.5 | | | | | 0.00 | 0.10 | |
| | 9.6 | | | | | | | Elev 96.20 to 96.22 |
| | 24.6 | | | | | 0.00 | 0.05 | |
| | 25.0 | | | | | 0.00 | 0.05 | |
| | 25.5 | | | 0.57 | 0.00 | 4.32 | 3.00 | n .002 to .004 |
| | 27.0 | | | 1.59 | 0.40 | | | |
| 28.5 | | | 4.94 | 4.00 | 5.48 | 4.80 | | |

Table 2. Changes to original data decks, Lake Creek Study Site 4.

| Trans | Station | Low Flow | | Middle Flow | | High Flow | | Other | |
|-------|---------|----------|------|-------------|------|-----------|------|---------------------|---------------------|
| | | Orig | Rev | Orig | Rev | Orig | Rev | | |
| 3 | 29.0 | | | 3.44 | 1.27 | | | | |
| | 29.5 | | | 0.41 | 0.88 | | | | |
| | 32.5 | | | 1.87 | 0.89 | | | | |
| | 33.0 | | | | | 2.10 | 1.70 | | |
| | 33.5 | | | 0.42 | 1.15 | | | | |
| | 34.0 | | | 0.82 | 0.55 | 0.40 | 0.65 | | |
| | 35.0 | NV | 0.18 | 1.24 | 0.39 | | | | |
| | 35.5 | | | 1.31 | 0.29 | | | | |
| | 36.0 | | | 0.85 | 0.70 | 0.92 | 0.85 | | |
| | 36.5 | 0.12 | 0.20 | 1.20 | 0.78 | 1.64 | 1.50 | | |
| | 37.0 | 0.62 | 0.50 | 0.98 | 0.50 | 0.47 | 0.52 | | |
| | 38.0 | 0.06 | 0.10 | 0.51 | 0.37 | | | | |
| | 38.5 | 0.00 | 0.10 | | | 1.06 | 0.90 | | |
| | 39.0 | 0.00 | 0.10 | -0.10 | 0.67 | | | | |
| | 40.0 | | | | | | | Elev 95.97 to 96.72 | |
| | 43.0 | | | | | | | Elev 95.17 to 95.72 | |
| | 43.5 | | | | | | | Elev 95.17 to 95.98 | |
| | 44.0 | | | | | | | Elev 95.77 to 95.95 | |
| | 45.0 | | | | | | | Elev 95.87 to 95.95 | |
| | 46.0 | | | | | | | Elev 95.77 to 95.95 | |
| | 47.0 | | | | | | 0.00 | 0.10 | |
| | 48.0 | | | | | | 0.00 | 0.10 | |
| | 49.0 | | | | | | 0.00 | 0.10 | |
| | 49.5 | | | | | | | | Elev 96.17 to 96.22 |
| | 2.0 | | | | 0.32 | 0.15 | 0.00 | 0.18 | Elev 98.13 to 98.26 |
| | 6.0 | | | | | | | | Elev 98.53 to 98.63 |
| | 9.0 | | | | 0.16 | 0.28 | | | |
| | 9.5 | | | | 0.35 | 1.28 | | | |
| 10.0 | | | | 1.00 | 1.83 | | | | |
| 10.5 | | | | | | 3.55 | 2.50 | | |
| 11.5 | | | | 0.17 | 0.45 | | | | |
| 13.5 | | | | 0.28 | 1.21 | | | | |
| 14.0 | | | | | | 1.78 | 1.90 | | |
| 15.0 | | | | 2.19 | 1.39 | | | | |
| 15.5 | 0.30 | 0.45 | | | | 3.21 | 2.90 | | |
| 16.0 | 0.11 | 0.20 | 1.04 | 0.88 | | | | | |

Table 2. Changes to original data decks, Lake Creek Study Site 4.

| Trans | Station | Low Flow | | Middle Flow | | High Flow | | Other |
|-------|---------|----------|------|-------------|------|-----------|---------------------|---------------------|
| | | Orig | Rev | Orig | Rev | Orig | Rev | |
| 4 | 20.0 | | | 0.37 | 0.76 | | | |
| | 20.5 | | | 0.09 | 0.40 | | | |
| | 21.0 | | | 0.08 | 0.72 | | | |
| | 21.5 | 0.01 | 0.10 | 0.02 | 0.18 | | | |
| | 22.0 | 0.01 | 0.10 | 0.03 | 0.18 | | | |
| | 5.0 | 0.02 | 0.15 | | | | | |
| | 6.0 | 0.03 | 0.10 | 0.00 | 0.34 | | | |
| | 6.3 | 0.00 | 0.15 | | | | | |
| | 6.6 | | | | | | | |
| | 0.0 | 0.10 | | | | | | |
| | 8.0 | 0.05 | 0.15 | 0.85 | 0.90 | | | |
| | 9.6 | | | 0.60 | 1.10 | | | |
| | 12.0 | 0.01 | 0.15 | 1.19 | 0.95 | 1.97 | 1.75 | |
| | 13.5 | | | 0.60 | 0.98 | | | |
| | 14.0 | | | 0.55 | 0.95 | | | |
| 14.5 | | | 0.51 | 0.97 | | | | |
| 15.0 | | | 0.32 | 1.01 | | | | |
| 5 | 7.0 | | | | | | | Elev 98.56 to 98.80 |
| | 10.3 | | | | | | | Elev 97.46 to 98.80 |
| | 10.5 | 0.47 | 0.60 | 0.88 | 1.70 | 3.26 | 3.00 | |
| | 11.0 | | | 1.28 | 0.59 | | | |
| | 13.5 | | | 2.22 | 1.48 | | | |
| | 14.0 | | | 2.80 | 1.18 | | | |
| | 18.5 | 0.00 | 0.10 | | | -0.10 | 0.10 | |
| | 19.0 | | | 0.30 | 0.00 | | | |
| | 20.0 | | | 0.63 | 0.00 | | | |
| | 20.5 | | | | | | | Elev 99.01 to 98.50 |
| 25.5 | | | | | | | Elev 98.76 to 98.78 | |
| 26.0 | | | 0.35 | 0.00 | | | | |
| 6 | 8.5 | | | | | | | Elev 96.20 to 96.22 |
| | 8.5 | | | | | 0.00 | 0.10 | |
| | 9.0 | | | | | 0.00 | 0.10 | |
| | 11.0 | | | | | | | Elev 95.20 to 95.30 |
| | 12.0 | | | | | | | Elev 95.00 to 95.30 |

Table 2. Changes to original data decks, Lake Creek Study Site 4.

| Trans | Station | Low Flow | | Middle Flow | | High Flow | | Other |
|-------|---------|----------|------|-------------|------|-----------|---------------------|---------------------|
| | | Orig | Rev | Orig | Rev | Orig | Rev | |
| 7 | 15.5 | 0.29 | 0.50 | | | 4.38 | 4.00 | |
| | 19.0 | 1.26 | 1.00 | | | 0.40 | 0.50 | |
| | 23.0 | 0.67 | 0.35 | | | 0.03 | 0.30 | |
| | 23.5 | 0.84 | 0.66 | | | 0.09 | 0.30 | |
| | 25.5 | 0.03 | 0.10 | 0.01 | 0.09 | 0.54 | 0.50 | |
| | 27.0 | | | | | | | Elev 95.20 to 95.30 |
| | 7.5 | | | | | 0.00 | 0.10 | |
| | 9.0 | | | | | | | Elev 97.09 to 96.82 |
| | 10.5 | | | 2.72 | 1.43 | | | |
| | 13.0 | | | 2.60 | 1.55 | | | |
| | 13.5 | | | | | | | Elev 97.09 to 96.70 |
| | 14.0 | | | | | | | Elev 97.09 to 96.82 |
| | 16.0 | | | | | | | Elev 97.09 to 96.72 |
| 18.0 | | | | | | | Elev 97.39 to 97.30 | |
| 26.6 | | | | | | | Elev 96.99 to 97.04 | |
| 8 | 15.0 | | | | | | | Elev 97.50 to 97.60 |
| | 18.9 | 0.00 | 0.17 | | | 0.63 | 0.50 | |
| | 19.5 | 0.01 | 0.10 | | | | | |
| | 25.2 | | | 0.85 | 0.57 | 1.34 | 1.25 | |
| | 29.6 | 0.03 | 0.10 | 0.85 | 0.38 | | | |
| | 30.0 | -0.09 | 0.10 | 0.79 | 0.40 | | | |
| | 30.4 | -0.08 | 0.10 | -0.11 | 0.45 | | | |
| | 30.8 | -0.07 | 0.10 | -0.08 | 0.37 | | | |
| | 31.2 | -0.13 | 0.13 | -0.10 | 0.25 | | | |
| 9 | 12.0 | | | | | -0.01 | 0.04 | |
| | 14.0 | | | -0.71 | 0.40 | -0.34 | 0.45 | Elev 97.62 to 97.72 |
| | 15.0 | -0.11 | 0.11 | -0.25 | 0.30 | -0.62 | 0.62 | |
| | 20.0 | | | | | -0.05 | 0.05 | |
| | 22.6 | 0.11 | 0.20 | | | 2.76 | 2.30 | |
| | 26.0 | | | 0.13 | 0.69 | | | |
| | 29.0 | | | | | -0.23 | 0.23 | |
| | 30.0 | | | | | -0.19 | 0.19 | |
| | 32.0 | | | | | -0.28 | 0.28 | |
| | 34.0 | | | 0.11 | 0.48 | -0.49 | 0.49 | |

Table 2. Changes to original data decks, Lake Creek Study Site 4.

| Trans | Station | Low Flow | | Middle Flow | | High Flow | | Other |
|-------|---------|----------|------|-------------|------|-----------|------|---------------------|
| | | Orig | Rev | Orig | Rev | Orig | Rev | |
| 10 | 36.0 | | | | | 0.00 | 0.10 | Elev 98.12 to 98.16 |
| | 20.0 | | | -0.08 | 0.54 | | | |
| | 20.5 | 0.19 | 0.35 | -0.05 | 0.72 | | | |
| | 21.0 | | | 0.21 | 0.65 | | | |
| | 21.5 | 0.28 | 0.40 | 0.12 | 1.10 | 2.44 | 2.60 | |
| | 22.0 | 0.16 | 0.35 | 0.65 | 1.20 | | | |
| | 22.5 | 0.26 | 0.40 | | | 2.44 | 2.20 | |
| | 24.0 | | | 2.07 | 1.85 | | | |
| | 26.5 | | | | | 1.12 | 1.20 | |
| | 27.0 | | | | | 0.89 | 0.93 | |
| 11 | 12.0 | | | 1.15 | 0.48 | | | Elev 97.51 to 97.08 |
| | 13.5 | | | 0.10 | 0.52 | | | |
| | 15.5 | | | | | | | |
| | 18.0 | | | 0.46 | 0.90 | | | |
| | 24.0 | 1.25 | 1.30 | 2.36 | 2.40 | | | |
| | 25.0 | | | 1.65 | 0.67 | | | |
| | 29.0 | | | | | | | |

| Table 3-1. Summary of calibration details for original and revised input decks | | | | | | | | | | | | | | | | |
|---|----|------|-------|------|-------|-------------|--------|--------|-------------|--------|--------|--------------|--------|-------|-------|------|
| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | | | | | |
| Transect 1 | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 93.46 | | 93.78 | | | 94.26 | | | 94.66 | | | 95.36 | | |
| Disch (cfs) | | | 2.4 | | 6.00 | | | 17.00 | | | 33.50 | | | 83.75 | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Orig | Rev |
| | 1 | 0.0 | 96.94 | | | | | | | | | | | | | |
| | 2 | 0.2 | 96.78 | | | | | | | | | | | | | |
| | 3 | 1.0 | 94.99 | | | | | | | | | | | | 0.13 | 0.26 |
| | 4 | 3.0 | 95.50 | | | | | | | | | | | | | |
| * | 5 | 4.2 | 94.64 | | | | | | | | | | | 0.04 | 0.21 | 0.40 |
| * | 6 | 5.0 | 94.04 | | | | | | 0.20 | | | 0.40 | 0.34 | 0.39 | 0.31 | 0.54 |
| | 7 | 6.0 | 94.14 | | | | | | 0.05 | 0.06 | | 0.14 | 0.12 | 0.14 | 0.12 | 0.17 |
| | 8 | 7.0 | 94.04 | | | | | | 0.06 | 0.07 | | 0.12 | 0.10 | 0.12 | 0.09 | 0.13 |
| | 9 | 8.0 | 93.94 | | | | | | 0.17 | 0.18 | | 0.29 | 0.24 | 0.28 | 0.21 | 0.31 |
| * | 10 | 9.0 | 93.84 | | | | | | 0.17 | 0.22 | 0.38 * | 1.33 | 1.51 | 1.23 | 13.99 | 5.09 |
| | 11 | 9.5 | 94.14 | | | | | | 0.73 | 0.78 * | | 1.94 | 1.65 | 1.90 | 1.62 | 2.33 |
| | 12 | 10.0 | 94.14 | | | | | | 0.65 * | 0.70 * | | 1.73 | 1.47 | 1.69 | 1.44 | 2.08 |
| | 13 | 11.0 | 94.14 | | | | | | 0.00 | 0.00 | | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| | 14 | 12.0 | 94.34 | | | | | | | | | 0.11 | 0.10 | 0.11 | 0.11 | 0.16 |
| | 15 | 13.0 | 94.59 | | | | | | | | | | 0.03 | 0.03 | 0.09 | 0.12 |
| | 16 | 14.0 | 94.71 | | | | | | | | | | | | 0.08 | 0.10 |
| | 17 | 15.0 | 94.69 | | | | | | | | | | | | 0.08 | 0.11 |
| | 18 | 16.0 | 94.81 | | | | | | | | | | | | 0.07 | 0.09 |
| | 19 | 17.0 | 94.75 | | | | | | | | | | | | 0.08 | 0.10 |
| * | 20 | 18.0 | 94.04 | | | | | | 0.08 | 0.08 | | | 0.14 | 0.15 | 0.13 | 0.17 |
| * | 21 | 19.0 | 93.74 | | | | 0.01 | 0.04 | 0.16 | 0.12 | 0.24 | 0.65 | 0.65 | 0.63 | 4.57 | 1.92 |
| * | 22 | 19.5 | 93.74 | | | | 0.01 | 0.04 | 0.28 | 0.20 | 0.38 | 1.24 | 1.25 | 1.29 | 10.31 | 5.73 |
| | 23 | 20.0 | 93.74 | | | | 0.23 | 0.27 * | 0.51 | 0.47 | 0.54 | 0.68 | 0.58 | 0.67 | 0.55 | 0.76 |
| | 24 | 20.5 | 93.74 | | | 0.51 | 0.50 | 0.55 | 0.72 | 0.48 * | 0.54 | 0.34 | 0.37 | 0.42 | 0.18 | 0.25 |
| | 25 | 21.0 | 93.64 | | | 0.30 | 0.27 | 0.29 | 0.47 | 0.43 | 0.48 | 0.53 | 0.46 | 0.53 | 0.35 | 0.51 |
| * | 26 | 21.5 | 93.54 | | | 0.10 | 0.08 | 0.14 | 0.23 | 0.36 | 0.62 * | 1.33 | 0.78 * | 1.30 | 1.55 | 2.95 |
| * | 27 | 22.0 | 93.64 | | | | 0.12 | | 0.61 | 0.52 | 0.61 | 1.18 | 1.06 | 1.22 | 1.96 | 2.57 |
| | 28 | 22.5 | 93.84 | | | | | | 0.59 | 0.47 | 0.56 | 1.60 | 1.51 | 1.71 | 5.13 | 6.38 |
| | 29 | 23.0 | 92.44 | 0.02 | 0.02 | 0.11 | 0.10 | 0.10 | 0.76 | 0.65 | 0.73 | 1.95 | 1.74 | 2.06 | 4.58 | 6.97 |
| * | 30 | 23.5 | 92.44 | 0.10 | 0.09 | 0.41 | 0.35 | 0.39 | 1.16 | 1.21 | 1.54 * | 2.74 | 2.14 * | 3.03 | 3.22 | 6.26 |
| * | 31 | 24.0 | 92.44 | 0.03 | 0.03 | | 0.19 | 0.18 | 1.18 | 0.98 | 1.05 | 2.52 | 2.30 | 2.67 | 5.07 | 7.86 |
| | 32 | 24.5 | 93.64 | | | 0.25 | 0.22 | 0.23 | 0.81 | 0.78 | 0.87 | 1.67 | 1.39 | 1.64 | 2.13 | 3.19 |
| * | 33 | 25.0 | 93.44 | 0.14 | 0.13 | 0.33 | 0.28 | 0.29 | 0.44 | 0.49 | 0.59 | 0.75 | 0.56 | 0.75 | 0.47 | 0.87 |
| | 34 | 26.0 | 92.44 | 0.19 | 0.20 | 0.24 | 0.17 | 0.18 | 0.06 | 0.12 | 0.13 | 0.14 | 0.07 | 0.08 | 0.03 | 0.04 |
| * | 35 | 27.0 | 93.04 | 0.28 | 0.05 | 0.21 | 0.25 | 0.10 | 0.43 | 0.16 * | 0.19 * | 0.06 | 0.10 | 0.23 | 0.03 | 0.24 |
| * | 36 | 28.0 | 93.04 | 1.29 | 0.64 | 0.78 | 0.88 | 0.60 | 1.04 | 0.44 * | 0.46 * | 0.15 | 0.22 | 0.30 | 0.06 | 0.14 |
| * | 37 | 29.0 | 93.04 | 0.58 | 0.31 | 0.62 | 0.52 | 0.42 | 0.33 | 0.36 | 0.48 | 0.30 | 0.23 | 0.42 | 0.08 | 0.29 |
| | 38 | 30.0 | 93.64 | | | 1.23 | 1.19 | 1.33 | 0.36 | 0.25 | 0.28 | 0.07 | 0.07 | 0.08 | 0.01 | 0.01 |
| | 39 | 31.0 | 93.14 | 1.26 | 1.39 | 0.89 | 0.78 | 0.85 | 0.37 | 0.35 | 0.40 | 0.20 | 0.17 | 0.19 | 0.04 | 0.06 |
| * | 40 | 32.0 | 92.74 | 1.03 | 1.23 | 1.20 | 1.21 | 1.33 | 1.78 | 1.11 * | 1.18 * | 0.74 | 0.83 | 0.87 | 0.40 | 0.48 |
| | 41 | 33.0 | 92.64 | 0.49 | 0.52 | 1.10 | 1.04 | 1.10 | 2.38 | 1.86 * | 2.08 | 2.24 | 2.15 | 2.51 | 1.84 | 2.68 |
| | 42 | 34.0 | 94.14 | | | | | | 1.77 | 1.66 | 1.88 | 2.15 | 1.82 | 2.11 | 1.44 | 2.04 |
| * | 43 | 34.5 | 94.34 | | | | | | 1.32 | | 1.34 | 2.27 | 2.01 | 2.31 | 3.00 | 4.01 |
| * | 44 | 35.0 | 93.64 | | | | 2.56 * | | 2.77 | 2.71 | 2.55 | 2.71 | 2.23 | 2.95 | 1.20 | 2.99 |
| | 45 | 35.5 | 93.14 | 0.28 | 0.29 | 0.89 | 0.86 | 0.9 | 3.26 | 2.38 | 2.67 | 3.67 | 3.68 | 4.30 | 4.63 | 6.81 |
| | 46 | 36.0 | 93.24 | 0.23 | 0.24 | 0.76 | 0.74 | 0.8 | 3.07 | 2.18 | 2.44 | 3.40 | 3.49 | 4.08 | 4.61 | 6.78 |
| | 47 | 36.5 | 92.64 | 0.22 | 0.23 | 0.69 | 0.66 | 0.7 | 2.36 | 1.78 | 2.00 | 2.75 | 2.70 | 3.16 | 3.31 | 4.88 |
| * | 48 | 37.0 | 93.34 | 0.07 | 0.06 | 0.26 | 0.22 | 0.2 | 0.64 | 0.68 | 0.87 | 1.45 | 1.12 | 1.67 | 1.52 | 3.37 |
| * | 49 | 38.0 | 93.54 | | | 1.23 | 0.93 | 1.2 | 0.30 | 0.48 | 0.70 | 0.43 | 0.25 | 0.40 | 0.07 | 0.16 |
| * | 50 | 40.0 | 93.64 | | | | 0.77 | 0.0 | | 2.33 | 0.08 | | 2.76 | 0.10 | 2.18 | 0.10 |
| * | 51 | 42.0 | 94.14 | | | | | | | -0.06 | 0.06 | -0.15 | -0.13 | 0.15 | -0.13 | 0.18 |
| | 52 | 42.7 | 94.64 | | | | | | | | | | -0.02 | 0.01 | -0.09 | 0.13 |
| | 53 | 43.0 | 95.42 | | | | | | | | | | | | | |
| | 54 | 48.2 | 96.42 | | | | | | | | | | | | | |
| | 55 | 49.0 | 97.18 | | | | | | | | | | | | | |
| | 56 | 51.5 | 98.43 | | | | | | | | | | | | | |
| | 57 | 51.6 | 98.56 | | | | | | | | | | | | | |
| Total | | | | | | | 1 * | 1 * | | 8 * | 8 * | | 2 * | 0 * | | |
| Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%. | | | | | | | | | | | | | | | | |

| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | | | | | | |
|---|----|-------|---------------------------------|-------------|------|---------------|--------|------|----------------|--------|--------|----------------|--------|--------|----------------|-------|------|
| Transect 2 | | | | | | | | | | | | | | | | | |
| Rv | Pt | Sta | WSE (ft) Disch (cfs) Elev | 95.2 2.4 | | 95.50 6.00 | | | 95.92 17.00 | | | 96.21 33.50 | | | 96.73 83.75 | | |
| | | | | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Orig | Rev | |
| | 1 | 0.00 | 98.72 | | | | | | | | | | | | | | |
| | 2 | 0.90 | 98.51 | | | | | | | | | | | | | | |
| | 3 | 1.20 | 96.52 | | | | | | | | | | | | 1.01 | 0.06 | |
| * | 4 | 2.00 | 96.17 | | | | | | | | | | 0.47 * | | 1.95 | 0.11 | |
| * | 5 | 2.70 | 95.87 | | | | | | 0.48 * | 0.03 | | | 0.00 | 1.84 * | 0.11 | 2.61 | 0.16 |
| * | 6 | 3.40 | 95.97 | | | | | | | | | | 0.00 | 1.46 * | 0.11 | 2.40 | 0.20 |
| | 7 | 3.70 | 96.37 | | | | | | | | | | | | | 1.45 | 0.04 |
| | 8 | 5.00 | 96.22 | | | | | | | | | | | | | 1.83 | 0.05 |
| * | 9 | 5.90 | 96.17 | | | | | | | | | | 0.47 * | | 1.95 | 0.05 | |
| * | 10 | 6.40 | 95.17 | 0.02 | 0.0 | 0.00 | 0.69 | 0.05 | 0.00 | 3.07 * | 0.09 | 0.00 | 3.87 * | 0.10 | 3.89 | 0.11 | |
| * | 11 | 7.00 | 95.27 | | | | 0.54 | | 0.00 | 2.79 * | 0.08 | 0.00 | 3.61 * | 0.10 | 3.72 | 0.12 | |
| * | 12 | 8.00 | 95.37 | | | | 0.37 | | 0.00 | 2.49 * | 0.07 | 0.00 | 3.35 * | 0.11 | 3.55 | 0.13 | |
| * | 13 | 9.00 | 95.47 | | | | 0.14 | | 0.00 | 2.18 * | 0.05 | 0.00 | 3.08 * | 0.11 | 3.37 | 0.15 | |
| * | 14 | 9.50 | 95.67 | | | | | | | 1.46 * | | 0.00 | 2.50 * | 0.11 | 3.00 | 0.20 | |
| | 15 | 9.60 | 96.20 | | | | | | | | | | 0.22 * | 0.06 | 1.88 | 0.57 | |
| | 16 | 11.00 | 97.96 | | | | | | | | | | | | | | |
| | 17 | 12.00 | 98.43 | | | | | | | | | | | | | | |
| | 18 | 14.00 | 97.29 | | | | | | | | | | | | | | |
| | 19 | 14.70 | 96.29 | | | | | | | | | | | | 1.66 | 0.50 | |
| | 20 | 16.80 | 97.86 | | | | | | | | | | | | | | |
| | 21 | 18.00 | 96.68 | | | | | | | | | | | | 0.38 | 0.11 | |
| | 22 | 18.80 | 98.30 | | | | | | | | | | | | | | |
| | 23 | 23.00 | 96.48 | | | | | | | | | | | | 1.13 | 0.34 | |
| | 24 | 24.50 | 96.31 | | | | | | | | | | | | 1.61 | 0.49 | |
| * | 25 | 24.60 | 96.16 | | | | | | | | | 0.00 | 0.54 * | 0.16 | 1.98 | 0.60 | |
| * | 26 | 25.00 | 96.16 | | | | | | | | | 0.00 | 0.54 * | 0.16 | 1.98 | 0.60 | |
| * | 27 | 25.50 | 96.13 | | | | | | 0.57 | * | * | 4.32 | 2.66 * | 3.55 | 43.71 | 10.57 | |
| | 28 | 25.80 | 95.97 | | | | | | | | | 1.98 | 1.46 * | 2.26 | 2.40 | 3.87 | |
| | 29 | 26.50 | 95.92 | | | | | | | | | 1.76 | 1.27 * | 1.96 | 1.92 | 3.09 | |
| * | 30 | 27.00 | 95.22 | | | 0.30 | 0.09 * | 0.3 | 1.59 | 0.42 * | 0.44 * | 0.47 | 0.60 | 0.49 | 0.77 | 0.51 | |
| * | 31 | 27.50 | 95.17 | 0.01 | 0.24 | 0.59 | 0.15 * | 0.59 | 0.00 | 0.92 * | 1.58 * | 2.16 | 1.53 * | 2.50 | 2.45 | 4.34 | |
| * | 32 | 28.00 | 95.17 | 0.07 | 2.58 | 3.83 | 1.00 * | 4.02 | 6.68 | 3.57 * | 6.09 | 5.87 | 4.36 * | 6.95 | 4.46 | 7.46 | |
| * | 33 | 28.50 | 95.37 | | | 1.22 | 0.33 * | 1.29 | 4.94 | 2.37 * | 3.75 * | 5.48 | 4.41 | 6.28 | 8.26 | 11.75 | |
| * | 34 | 29.00 | 95.17 | 0.01 | 0.39 | 0.73 | 0.21 * | 0.73 | 3.44 | 1.14 * | 1.39 * | 1.66 | 1.78 | 1.81 | 2.60 | 2.36 | |
| * | 35 | 29.50 | 94.97 | 0.01 | 0.22 | 0.65 | 0.13 * | 0.65 | 0.41 | 0.66 * | 2.10 * | 3.18 | 0.99 * | 3.75 | 1.35 | 7.67 | |
| * | 36 | 30.00 | 94.87 | 0.01 | 0.51 | 0.96 | 0.25 * | 1.00 | 2.14 | 1.16 * | 2.02 | 2.25 | 1.65 * | 2.73 * | 2.10 | 3.74 | |
| * | 37 | 30.50 | 94.92 | 0.01 | 0.39 | 0.54 | 0.14 * | 0.55 | 0.74 | 0.44 * | 0.74 | 0.73 | 0.50 * | 0.79 | 0.46 | 0.77 | |
| | 38 | 31.00 | 94.77 | 0.00 | 0.09 | 0.21 | 0.05 | 0.20 | 0.34 | 0.25 | 0.44 | 0.63 | 0.37 * | 0.63 | 0.49 | 0.93 | |
| | 39 | 31.50 | 94.57 | 0.01 | 0.43 | 0.71 | 0.18 * | 0.71 | 1.03 | 0.65 * | 1.13 | 1.26 | 0.81 * | 1.32 | 0.85 | 1.48 | |
| | 40 | 32.00 | 94.47 | 0.01 | 0.48 | 0.96 | 0.23 * | 0.92 | 1.46 | 1.03 * | 1.80 * | 2.38 | 1.42 * | 2.38 | 1.72 | 3.18 | |
| * | 41 | 32.50 | 94.47 | 0.00 | 0.08 | 0.26 | 0.07 | 0.26 | 1.87 | 0.71 * | 1.00 * | 1.61 | 1.56 | 1.95 | 3.72 | 4.60 | |
| * | 42 | 33.00 | 94.47 | 0.00 | 0.19 | 0.46 | 0.12 * | 0.49 | 1.52 | 0.83 * | 1.38 | 2.10 | 1.52 * | 2.26 | 2.75 | 4.11 | |
| * | 43 | 33.50 | 94.47 | 0.02 | 0.54 | 0.85 | 0.18 * | 0.84 | 0.42 | 0.51 | 1.27 * | 1.40 | 0.54 * | 1.45 | 0.45 | 1.55 | |
| * | 44 | 34.00 | 94.87 | 0.03 | 0.61 | 0.82 | 0.21 * | 0.63 | 0.51 | 0.32 | 0.59 | 0.35 | 0.23 | 0.51 | 0.12 | 0.36 | |
| | 45 | 34.50 | 94.37 | 0.00 | 0.10 | 0.17 | 0.05 | 0.19 | 0.43 | 0.20 * | 0.35 | 0.33 | 0.27 | 0.44 | 0.33 | 0.56 | |
| * | 46 | 35.00 | 94.07 | 3.13 | 0.08 | 0.18 | 4.57 * | 0.18 | 1.24 | 1.13 | 0.43 * | 0.57 | 0.28 * | 0.64 | 0.03 | 1.02 | |
| * | 47 | 35.50 | 93.97 | 0.00 | 0.13 | 0.20 | 0.06 | 0.20 | 1.31 | 0.31 * | 0.30 * | 0.32 | 0.45 | 0.33 | 0.61 | 0.35 | |
| * | 48 | 36.00 | 93.97 | 0.00 | 0.08 | 0.21 | 0.06 | 0.22 | 0.85 | 0.40 * | 0.66 | 0.92 | 0.73 | 1.11 | 1.35 | 2.12 | |
| * | 49 | 36.50 | 93.97 | 0.00 | 0.05 | 0.12 | 0.03 | 0.20 | 1.20 | 0.50 * | 0.88 * | 1.64 | 1.45 | 1.86 | 5.12 | 4.91 | |
| * | 50 | 37.00 | 94.37 | 0.02 | 0.42 | 0.62 | 0.17 * | 0.49 | 0.98 | 0.42 * | 0.54 * | 0.47 | 0.42 | 0.51 | 0.31 | 0.42 | |
| * | 51 | 37.50 | 94.27 | 0.02 | 0.88 | 0.74 | 0.18 * | 0.71 | 0.45 | 0.31 | 0.51 | 0.41 | 0.25 | 0.37 | 0.14 | 0.20 | |
| * | 52 | 38.00 | 94.87 | 0.00 | 0.03 | 0.06 | 0.02 | 0.10 | 0.51 | 0.22 * | 0.41 | 0.68 | 0.59 | 0.84 | 1.87 | 2.09 | |
| * | 53 | 38.50 | 94.87 | 0.00 | 0.02 | 0.00 | 0.01 | 0.10 | 0.50 | 0.23 * | 0.52 | 1.06 | 0.88 | 1.21 | 4.70 | 3.61 | |
| * | 54 | 39.00 | 94.87 | 0.02 | 0.02 | 0.00 | 0.52 * | 0.10 | -0.10 | 2.34 * | 0.71 * | 1.90 | 2.94 * | 1.96 | 2.93 | 7.62 | |
| * | 55 | 39.50 | 95.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.04 | 0.06 | 0.56 | 0.29 * | 0.45 | 4.81 | 7.75 | |
| * | 56 | 40.00 | 95.97 | | | | | | | | | | 0.01 | | 0.02 | 0.03 | |
| | 57 | 40.50 | 96.73 | | | | | | | | | | | | | | |
| | 58 | 41.00 | 96.98 | | | | | | | | | | | | | | |
| | 59 | 41.50 | 97.32 | | | | | | | | | | | | | | |
| | 60 | 42.00 | 97.44 | | | | | | | | | | | | | | |
| | 61 | 42.50 | 97.36 | | | | | | | | | | | | | | |
| * | 62 | 43.00 | 95.17 | 1.90 | | 2.22 | | | 0.45 | 0.43 | 0.46 | 0.19 | 0.09 | 0.14 | 0.01 | 0.02 | |
| * | 63 | 43.50 | 95.17 | 0.00 | | 0.20 | | | | 0.89 * | | 1.68 | 1.12 * | 1.92 | 1.12 | 3.28 | |
| * | 64 | 44.00 | 95.77 | | | | | | | 0.58 * | | 1.77 | 1.23 * | 2.02 | 1.58 | 3.46 | |
| * | 65 | 45.00 | 95.87 | | | | | | | 0.22 * | | 1.18 | 0.84 * | 1.35 | 1.18 | 2.31 | |
| * | 66 | 46.00 | 95.77 | | | | | | | 0.09 | | 0.26 | 0.18 | 0.30 | 0.23 | 0.51 | |
| * | 67 | 47.00 | 95.57 | | | | | | 0.00 | 0.15 | 0.07 | | 0.23 * | 0.10 | 0.26 | 0.12 | |
| * | 68 | 48.00 | 95.57 | | | | | | 0.00 | 0.15 | 0.07 | | 0.23 * | 0.10 | 0.26 | 0.12 | |
| * | 69 | 49.00 | 95.77 | | | | | | 0.00 | 0.09 | 0.05 | | 0.18 | 0.11 | 0.23 | 0.14 | |
| * | 70 | 49.50 | 96.17 | | | | | | | | | | 0.04 | | 0.16 | 0.09 | |
| | 71 | 50.50 | 98.48 | | | | | | | | | | | | | | |
| | 72 | 50.62 | 98.66 | | | | | | | | | | | | | | |
| Total | | | | | | | 17 * | 0 * | | 30 * | 14 * | | 33 * | 2 * | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3.3 - Summary of calibration details for original and revised input decks | | | | | | | | | | | | | | | | | | | | |
|---|----|-------|--------|------|------|-------------|-------|--------|-------------|------|--------|-------------|------|--------|-------|------|------------|--|-------|--|
| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | | | | | | | | | |
| Transect 3 | | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 97.98 | | | | 98.24 | | | | 98.62 | | | | 98.93 | | | | 99.43 | |
| Disch (cfs) | | | 2.4 | | | | 6.00 | | | | 17.00 | | | | 33.50 | | | | 83.75 | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | | | |
| | 1 | 0.00 | 100.30 | | | | | | | | | | | | | | | | | |
| | 2 | 0.90 | 98.93 | | | | | | | | | | | | | | 0.21 0.15 | | | |
| * | 3 | 2.00 | 98.13 | | | | 0.12 | | 0.32 | 0.36 | 0.16 | 0.00 | 0.45 | * 0.18 | | | 0.40 0.18 | | | |
| | 4 | 3.00 | 98.97 | | | | | | | | | | | | | | 0.08 0.10 | | | |
| | 5 | 4.00 | 98.53 | | | | | | 0.00 | 0.05 | 0.04 | 0.11 | 0.11 | 0.11 | | | 0.12 0.15 | | | |
| | 6 | 5.00 | 98.83 | | | | | | | | | 0.00 | 0.13 | 0.15 | | | 0.28 0.41 | | | |
| * | 7 | 6.00 | 98.53 | | | | | | | 0.13 | | 0.32 | 0.32 | 0.32 | | | 0.36 0.49 | | | |
| | 8 | 7.00 | 99.24 | | | | | | | | | | | | | | 0.07 0.08 | | | |
| | 9 | 8.00 | 98.95 | | | | | | | | | | | | | | 0.12 0.15 | | | |
| * | 10 | 9.00 | 98.13 | | | 0.07 | 0.06 | 0.06 | 0.16 | 0.31 | 0.34 | 1.07 | 0.80 | * 0.93 | | | 2.12 3.18 | | | |
| * | 11 | 9.50 | 98.03 | | | 0.46 | 0.32 | 0.45 | 0.35 | 0.89 | * 1.29 | 2.34 | 1.49 | * 2.32 | | | 2.17 4.49 | | | |
| * | 12 | 10.00 | 97.83 | 0.18 | 0.22 | 0.64 | 0.55 | 0.63 | 1.00 | 1.61 | * 1.84 | 3.36 | 2.77 | 3.35 | | | 4.22 6.59 | | | |
| * | 13 | 10.50 | 97.63 | 0.10 | 0.12 | 0.36 | 0.42 | 0.41 | 2.27 | 1.87 | 1.51 | 3.55 | 4.26 | 3.19 | | | 9.44 7.67 | | | |
| | 14 | 11.00 | 97.53 | 0.05 | 0.05 | 0.16 | 0.17 | 0.16 | 0.55 | 0.58 | 0.54 | 1.07 | 1.12 | 1.08 | | | 1.99 2.43 | | | |
| * | 15 | 11.50 | 97.73 | 0.01 | 0.01 | 0.08 | 0.06 | 0.08 | 0.17 | 0.35 | 0.45 | 1.32 | 0.94 | * 1.29 | | | 2.60 4.71 | | | |
| | 16 | 12.00 | 97.33 | 0.03 | 0.03 | 0.08 | 0.08 | 0.07 | 0.19 | 0.23 | 0.22 | 0.42 | 0.40 | 0.39 | | | 0.63 0.75 | | | |
| | 17 | 12.50 | 97.33 | 0.06 | 0.06 | 0.11 | 0.12 | 0.12 | 0.30 | 0.26 | 0.24 | 0.31 | 0.36 | 0.35 | | | 0.41 0.51 | | | |
| | 18 | 13.00 | 97.13 | 0.15 | 0.17 | 0.33 | 0.27 | 0.27 | 0.23 | 0.42 | 0.40 | 0.64 | 0.49 | 0.46 | | | 0.44 0.50 | | | |
| * | 19 | 13.50 | 96.93 | 0.30 | 0.45 | 0.76 | 0.51 | * 0.76 | 0.28 | 0.78 | * 1.21 | 1.46 | 0.89 | * 1.48 | | | 0.76 1.70 | | | |
| * | 20 | 14.00 | 97.13 | 0.63 | 0.66 | 1.16 | 0.98 | 0.97 | 0.82 | 1.36 | * 1.31 | 1.78 | 1.45 | 1.44 | | | 1.14 1.44 | | | |
| * | 21 | 14.50 | 96.93 | 0.05 | 0.05 | 0.22 | 0.25 | 0.23 | 1.41 | 1.21 | 1.12 | 2.49 | 2.91 | 2.83 | | | 6.93 8.64 | | | |
| * | 22 | 15.00 | 97.33 | 0.11 | 0.10 | 0.38 | 0.44 | 0.37 | 2.19 | 1.76 | 1.40 | 3.03 | 3.69 | * 3.00 | | | 7.31 7.39 | | | |
| * | 23 | 15.50 | 97.33 | 0.07 | 0.14 | 0.30 | 0.33 | 0.45 | 1.66 | 1.54 | 1.53 | 3.21 | 3.60 | 3.04 | | | 8.28 6.75 | | | |
| * | 24 | 16.00 | 96.93 | 0.02 | 0.05 | 0.11 | 0.13 | 0.19 | 1.04 | 0.85 | 0.87 | 2.07 | 2.49 | * 2.07 | | | 7.80 5.87 | | | |
| | 25 | 16.50 | 97.03 | 0.61 | 0.62 | 1.01 | 1.11 | 1.07 | 2.00 | 1.84 | 1.73 | 1.94 | 2.19 | 2.14 | | | 2.02 2.51 | | | |
| | 26 | 17.00 | 97.13 | 0.64 | 0.65 | 1.13 | 1.20 | 1.16 | 2.10 | 2.08 | 1.95 | 2.34 | 2.54 | 2.47 | | | 2.43 2.99 | | | |
| | 27 | 17.50 | 97.03 | 0.29 | 0.29 | 0.61 | 0.67 | 0.64 | 1.65 | 1.49 | 1.40 | 1.89 | 2.15 | 2.10 | | | 2.56 3.18 | | | |
| | 28 | 18.00 | 97.13 | 0.21 | 0.20 | 0.42 | 0.48 | 0.46 | 1.27 | 1.07 | 1.00 | 1.29 | 1.53 | 1.50 | | | 1.83 2.29 | | | |
| | 29 | 18.50 | 97.33 | 0.34 | 0.33 | 0.65 | 0.75 | 0.71 | 1.87 | 1.55 | 1.46 | 1.79 | 2.14 | 2.10 | | | 2.41 3.02 | | | |
| | 30 | 19.00 | 97.33 | 0.61 | 0.62 | 1.15 | 1.16 | 1.13 | 1.84 | 2.05 | 1.92 | 2.51 | 2.55 | 2.47 | | | 2.49 3.02 | | | |
| | 31 | 19.50 | 97.03 | 0.29 | 0.31 | 0.65 | 0.56 | 0.55 | 0.61 | 0.98 | * 0.92 | 1.46 | 1.21 | 1.15 | * | | 1.17 1.37 | | | |
| * | 32 | 20.00 | 97.03 | 0.15 | 0.19 | 0.39 | 0.32 | 0.39 | 0.37 | 0.64 | * 0.77 | 1.08 | 0.86 | * 1.08 | | | 0.92 1.51 | | | |
| * | 33 | 20.50 | 97.03 | 0.01 | 0.01 | 0.07 | 0.05 | 0.07 | 0.09 | 0.26 | 0.40 | 1.19 | 0.70 | * 1.17 | | | 1.92 4.31 | | | |
| * | 34 | 21.00 | 97.23 | 0.00 | 0.05 | 0.01 | 0.01 | 0.19 | 0.08 | 0.17 | 0.73 | 1.57 | 1.10 | * 1.55 | | | 10.03 3.78 | | | |
| * | 35 | 21.50 | 97.23 | 0.00 | 0.02 | 0.01 | 0.01 | 0.08 | 0.02 | 0.10 | 0.35 | 1.27 | 0.56 | * 0.84 | * | | 4.33 2.46 | | | |
| * | 36 | 22.00 | 97.03 | 0.00 | 0.02 | 0.01 | 0.01 | 0.07 | 0.03 | 0.12 | 0.36 | 1.39 | 0.70 | * 0.90 | * | | 5.74 2.75 | | | |
| | 37 | 23.00 | 97.03 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | 0.01 0.01 | | | |
| | 38 | 24.00 | 97.93 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | 0.01 0.01 | | | |
| | 39 | 24.70 | 98.93 | | | | | | | | | | | | | | 0.01 0.01 | | | |
| | 40 | 25.00 | 100.44 | | | | | | | | | | | | | | | | | |
| | 41 | 26.50 | 99.39 | | | | | | | | | | | | | | 0.00 0.00 | | | |
| | 42 | 28.50 | 101.31 | | | | | | | | | | | | | | | | | |
| | 43 | 30.30 | 100.82 | | | | | | | | | | | | | | | | | |
| | 44 | 30.49 | 100.75 | | | | | | | | | | | | | | | | | |
| Total | | | | | | 1 * | 0 * | | 6 * | 16 * | | 12 * | 3 * | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3.4 - Summary of calibration details for original and revised input decks | | | | | | | | | | | | | | | | |
|---|----|-------------|--------|-------|------|-------------|------|--------|-------------|------|--------|-------------|------|--------|-------|------|
| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | | | | | |
| Transect 4 | | | | | | | | | | | | | | | | |
| | | WSE (ft) | | 98.03 | | 98.33 | | | 98.76 | | | 99.08 | | | 99.62 | |
| | | Disch (cfs) | | 2.40 | | 6.00 | | | 17.50 | | | 33.00 | | | 82.50 | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Orig | Rev |
| 1 | | 0.00 | 100.95 | | | | | | | | | | | | | |
| 2 | | 0.10 | 100.90 | | | | | | | | | | | | | |
| 3 | | 3.20 | 100.29 | | | | | | | | | | | | | |
| 4 | | 4.10 | 99.10 | | | | | | | | | | | | | |
| 5 | | 4.50 | 97.30 | 0.03 | 0.03 | 0.12 | 0.10 | 0.09 | 0.25 | 0.34 | 0.30 | 0.75 | 0.60 | 0.59 | 0.04 | 0.06 |
| 6 | * | 5.00 | 97.30 | 0.00 | 0.04 | 0.02 | 0.03 | 0.14 | 0.63 | 0.34 | * 0.50 | 1.03 | 1.23 | 1.01 | 5.26 | 2.56 |
| 7 | | 5.30 | 97.10 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.05 | 0.09 | 0.07 | 0.43 | 0.30 | 0.29 | 1.24 | 2.01 |
| 8 | | 5.60 | 97.10 | 0.00 | 0.00 | 0.02 | 0.02 | 0.01 | 0.05 | 0.08 | 0.07 | 0.25 | 0.18 | 0.18 | 0.39 | 0.62 |
| 9 | * | 6.00 | 97.30 | 0.00 | 0.02 | 0.03 | 0.02 | 0.08 | 0.00 | 0.21 | * 0.34 | 0.88 | 0.66 | * 0.76 | 2.19 | 2.19 |
| 10 | * | 6.30 | 97.20 | 0.27 | 0.04 | 0.00 | 0.49 | * 0.14 | 0.79 | 0.91 | 0.59 | 1.29 | 1.13 | 1.29 | 1.01 | 3.72 |
| 11 | * | 6.60 | 97.10 | 0.00 | 0.02 | 0.03 | 0.03 | 0.08 | 0.50 | 0.41 | 0.48 | 1.57 | 1.54 | 1.34 | 6.75 | 5.36 |
| 12 | | 7.00 | 97.10 | 0.04 | 0.03 | 0.15 | 0.15 | 0.13 | 0.65 | 0.67 | 0.59 | 1.56 | 1.41 | 1.40 | 2.67 | 4.46 |
| 13 | | 7.30 | 97.10 | 0.04 | 0.03 | 0.16 | 0.16 | 0.13 | 0.74 | 0.75 | 0.66 | 1.76 | 1.60 | 1.59 | 3.12 | 5.23 |
| 14 | * | 7.60 | 96.90 | 0.01 | 0.03 | 0.06 | 0.07 | 0.13 | 0.72 | 0.58 | 0.64 | 1.72 | 1.73 | 1.56 | 5.50 | 5.25 |
| 15 | * | 8.00 | 96.90 | 0.01 | 0.04 | 0.05 | 0.07 | 0.15 | 0.85 | 0.51 | * 0.61 | 1.26 | 1.45 | 1.33 | 4.25 | 3.77 |
| 16 | | 8.30 | 96.90 | 0.02 | 0.02 | 0.09 | 0.10 | 0.08 | 0.59 | 0.50 | 0.44 | 1.14 | 1.12 | 1.12 | 2.34 | 4.00 |
| 17 | | 8.60 | 96.90 | 0.06 | 0.05 | 0.19 | 0.18 | 0.16 | 0.56 | 0.61 | 0.55 | 1.22 | 1.08 | 1.08 | 1.59 | 2.62 |
| 18 | | 9.00 | 96.90 | 0.17 | 0.15 | 0.35 | 0.33 | 0.30 | 0.58 | 0.67 | 0.61 | 1.00 | 0.87 | 0.88 | 0.84 | 1.37 |
| 19 | | 9.30 | 96.80 | 0.15 | 0.14 | 0.36 | 0.32 | 0.29 | 0.57 | 0.72 | 0.66 | 1.21 | 1.01 | 1.01 | 1.07 | 1.71 |
| 20 | * | 9.60 | 97.60 | 0.21 | 0.24 | 0.57 | 0.44 | 0.49 | 0.60 | 0.98 | * 1.09 | 1.84 | 1.36 | * 1.65 | 1.43 | 2.76 |
| 21 | | 10.00 | 97.75 | 0.26 | 0.24 | 0.60 | 0.58 | 0.52 | 1.23 | 1.33 | 1.21 | 2.10 | 1.88 | 1.89 | 2.02 | 3.30 |
| 22 | | 10.50 | 97.70 | 0.31 | 0.28 | 0.68 | 0.65 | 0.58 | 1.25 | 1.40 | 1.28 | 2.16 | 1.91 | 1.92 | 1.95 | 3.17 |
| 23 | | 11.00 | 96.80 | 0.29 | 0.26 | 0.63 | 0.61 | 0.54 | 1.19 | 1.30 | 1.19 | 1.99 | 1.77 | 1.78 | 1.80 | 2.94 |
| 24 | | 11.50 | 96.90 | 0.23 | 0.20 | 0.54 | 0.54 | 0.48 | 1.30 | 1.33 | 1.20 | 2.12 | 1.95 | 1.96 | 2.21 | 3.65 |
| 25 | * | 12.00 | 97.20 | 0.00 | 0.03 | 0.01 | 0.02 | 0.14 | 1.19 | 0.46 | * 0.70 | 1.97 | 2.70 | * 1.74 | 22.93 | 5.91 |
| 26 | | 12.50 | 97.10 | 0.26 | 0.24 | 0.57 | 0.48 | 0.44 | 0.66 | 0.92 | * 0.84 | 1.45 | 1.16 | 1.16 | 1.07 | 1.69 |
| 27 | | 13.00 | 97.10 | 0.28 | 0.27 | 0.58 | 0.49 | 0.46 | 0.61 | 0.84 | * 0.78 | 1.25 | 1.01 | 1.01 | 0.85 | 1.34 |
| 28 | * | 13.50 | 97.40 | 0.26 | 0.30 | 0.60 | 0.49 | 0.53 | 0.60 | 0.90 | * 0.97 | 1.45 | 1.12 | * 1.32 | 1.01 | 1.87 |
| 29 | * | 14.00 | 97.50 | 0.15 | 0.16 | 0.45 | 0.35 | 0.38 | 0.55 | 0.89 | * 0.96 | 1.77 | 1.32 | * 1.57 | 1.53 | 2.91 |
| 30 | * | 14.50 | 97.10 | 0.22 | 0.26 | 0.57 | 0.43 | 0.50 | 0.51 | 0.86 | * 0.98 | 1.53 | 1.12 | * 1.38 | 1.07 | 2.07 |
| 31 | * | 15.00 | 97.00 | 0.20 | 0.28 | 0.61 | 0.38 | * 0.53 | 0.32 | 0.77 | * 1.03 | 1.60 | 1.00 | * 1.43 | 0.95 | 2.13 |
| 32 | | 15.50 | 96.90 | 0.28 | 0.26 | 0.51 | 0.48 | 0.45 | 0.00 | 0.83 | * 0.78 | 1.13 | 1.00 | 1.02 | 0.84 | 1.38 |
| 33 | | 16.00 | 97.10 | 0.11 | 0.10 | 0.28 | 0.26 | 0.24 | 0.00 | 0.61 | * 0.56 | 1.02 | 0.87 | 0.89 | 0.96 | 1.59 |
| 34 | | 16.50 | 97.50 | 0.01 | 0.01 | 0.06 | 0.05 | 0.05 | 0.00 | 0.25 | * 0.23 | 0.70 | 0.56 | 0.57 | 1.13 | 1.93 |
| 35 | | 17.00 | 99.28 | | | | | | | | | | | | 0.02 | 0.03 |
| 36 | | 20.00 | 99.77 | | | | | | | | | | | | | |
| 37 | | 21.50 | 99.23 | | | | | | | | | | | | 0.02 | 0.03 |
| 38 | | 21.60 | 98.30 | | | | 0.01 | 0.01 | | 0.04 | 0.04 | 0.00 | 0.05 | 0.05 | 0.04 | 0.07 |
| 39 | | 22.00 | 98.50 | | | | | | | 0.15 | 0.14 | 0.25 | 0.23 | 0.23 | 0.20 | 0.31 |
| 40 | | 23.00 | 98.60 | | | | | | | 0.19 | 0.18 | 0.38 | 0.34 | 0.35 | 0.32 | 0.51 |
| 41 | | 24.00 | 98.60 | | | | | | | 0.16 | 0.15 | 0.32 | 0.29 | 0.29 | 0.27 | 0.43 |
| 42 | | 25.00 | 98.80 | | | | | | | | | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 |
| 43 | | 25.54 | 99.10 | | | | | | | | | | | | 0.01 | 0.02 |
| 44 | | 25.55 | 103.35 | | | | | | | | | | | | | |
| Total | | | | | | | 2 * | 0 * | | 14 * | 11 * | | 7 * | 0 * | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%.

| Table 3.5 - Summary of calibration details for original and revised input decks | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----|-------|--------|-------|------|-------------|-------|------|------|-------|-------------|------|-------------|------|------|--------------|-------|--------|-----|---|------|-------|-------|------|
| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Transect 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | 98.04 | | 98.33 | | | 98.76 | | | 99.11 | | | 99.69 | | | | | | | | | | | |
| Disch (cfs) | | 2.4 | | 6.00 | | | 17.00 | | | 33.50 | | | 83.75 | | | | | | | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Orig | Rev | | |
| 1 | | 0.00 | 101.99 | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 0.10 | 101.88 | | | | | | | | | | | | | | | | | | | | | |
| 3 | | 1.50 | 99.16 | | | | | | | | | | | | | | | | | | | 0.12 | 0.19 | |
| 4 | | 2.00 | 99.06 | | | | | | | | | | 0.00 | 0.05 | 0.05 | | | | | | | 0.13 | 0.22 | |
| 5 | | 3.00 | 99.06 | | | | | | | | | | 0.00 | 0.05 | 0.05 | | | | | | | 0.13 | 0.22 | |
| 6 | | 4.00 | 98.86 | | | | | | | | | | 0.14 | 0.14 | 0.14 | | | | | | | 0.16 | 0.26 | |
| 7 | | 5.00 | 98.56 | | | | | | | | 0.00 | 0.17 | 0.17 | | | | | | | | | 0.28 | 0.45 | |
| 8 | | 5.50 | 98.46 | | | | | | | | 0.00 | 0.76 | * | 0.76 | * | 1.24 | 1.21 | 1.21 | | | | 0.98 | 1.59 | |
| 9 | | 6.00 | 98.66 | | | | | | | | 0.00 | 0.32 | * | 0.32 | * | 0.84 | 0.82 | 0.82 | | | | 0.76 | 1.23 | |
| 10 | | 6.50 | 98.56 | | | | | | | | 0.00 | 0.37 | * | 0.37 | * | 0.70 | 0.68 | 0.68 | | | | 0.59 | 0.95 | |
| * 11 | | 7.00 | 98.56 | | | | | | | | | 0.18 | | | | 0.34 | 0.33 | 0.33 | | | | 0.28 | 0.58 | |
| 12 | | 7.05 | 99.87 | | | | | | | | | | | | | | | | | | | | | |
| 13 | | 8.00 | 99.95 | | | | | | | | | | | | | | | | | | | | | |
| 14 | | 9.90 | 99.61 | | | | | | | | | | | | | | | | | | | 0.17 | 0.82 | |
| * 15 | | 10.30 | 97.46 | 1.04 | | | | 1.47 | * | | | 2.10 | * | | | 2.39 | 2.32 | 2.33 | | | | 1.51 | 4.06 | |
| * 16 | | 10.50 | 97.46 | 0.15 | 0.23 | 0.47 | 0.41 | | 0.6 | | 0.88 | 1.29 | * | 1.67 | * | 3.26 | 2.42 | * 3.00 | | | | 3.24 | 6.10 | |
| * 17 | | 11.00 | 96.71 | 0.47 | 0.47 | 0.56 | 0.60 | 0.54 | | | 1.28 | 0.81 | * | 0.61 | * | 0.63 | 0.87 | * 0.61 | | | | 0.56 | 0.56 | |
| 18 | | 11.50 | 96.76 | 0.35 | 0.37 | 0.65 | 0.65 | 0.68 | | | 1.59 | 1.32 | 1.30 | | | 1.64 | 1.85 | 1.80 | | | | 1.68 | 2.61 | |
| 19 | | 12.00 | 96.96 | 0.37 | 0.37 | 0.79 | 0.77 | 0.79 | | | 1.88 | 1.80 | 1.79 | | | 2.74 | 2.78 | 2.79 | | | | 2.87 | 4.70 | |
| 20 | | 12.50 | 96.96 | 0.62 | 0.64 | 1.12 | 1.11 | 1.15 | | | 2.37 | 2.14 | 2.13 | | | 2.75 | 2.92 | 2.92 | | | | 2.56 | 4.13 | |
| 21 | | 13.00 | 96.86 | 0.43 | 0.44 | 0.84 | 0.85 | 0.88 | | | 2.15 | 1.84 | 1.83 | | | 2.46 | 2.71 | 2.70 | | | | 2.64 | 4.24 | |
| * 22 | | 13.50 | 96.96 | 0.29 | 0.30 | 0.64 | 0.66 | 0.64 | | | 2.22 | 1.73 | * | 1.43 | * | 2.45 | 2.88 | 2.22 | | | | 3.30 | 3.71 | |
| * 23 | | 14.00 | 96.76 | 0.28 | 0.28 | 0.55 | 0.62 | 0.55 | | | 2.80 | 1.56 | * | 1.15 | * | 1.69 | 2.54 | * 1.70 | | | | 2.80 | 2.68 | |
| 24 | | 14.50 | 97.06 | 0.59 | 0.62 | 0.82 | 0.83 | 0.87 | | | 1.50 | 1.22 | 1.21 | | | 1.21 | 1.40 | 1.38 | | | | 0.96 | 1.52 | |
| 25 | | 15.00 | 97.96 | 0.81 | 0.82 | 1.20 | 1.15 | 1.18 | | | 1.70 | 1.71 | 1.71 | | | 2.01 | 1.98 | 1.98 | | | | 1.38 | 2.25 | |
| 26 | | 15.50 | 97.96 | 0.42 | 0.44 | 0.74 | 0.76 | 0.79 | | | 1.80 | 1.46 | 1.45 | | | 1.74 | 2.00 | 1.98 | | | | 1.76 | 2.79 | |
| 27 | | 16.00 | 97.96 | 0.45 | 0.46 | 0.83 | 0.82 | 0.85 | | | 1.76 | 1.62 | 1.61 | | | 2.14 | 2.24 | 2.24 | | | | 2.01 | 3.25 | |
| 28 | | 16.50 | 98.16 | | | 0.63 | 0.62 | 0.64 | | | 1.41 | 1.29 | 1.28 | | | 1.74 | 1.83 | 1.83 | | | | 1.70 | 2.76 | |
| 29 | | 17.00 | 98.06 | | | 0.58 | 0.56 | 0.58 | | | 0.68 | 0.65 | 0.65 | | | 0.63 | 0.64 | 0.64 | | | | 0.36 | 0.58 | |
| 30 | | 17.50 | 98.06 | | | 0.48 | 0.45 | 0.47 | | | 0.17 | 0.17 | 0.17 | | | -0.04 | -0.03 | -0.04 | | | | -0.16 | -0.26 | |
| 31 | | 18.00 | 98.06 | | | 0.26 | 0.25 | 0.27 | | | 0.05 | 0.06 | 0.06 | | | 0.00 | 0.02 | 0.02 | | | | 0.00 | 0.00 | |
| * 32 | | 18.50 | 98.16 | | | 0.00 | 0.82 | * | 0.11 | | 0.17 | 0.26 | 0.12 | | | -0.10 | -0.14 | 0.12 | | | | -0.35 | 0.11 | |
| * 33 | | 19.00 | 98.36 | | | | | | | | 0.30 | 0.21 | 0.74 | * | | 1.10 | 1.35 | * 1.07 | | | | 9.60 | 1.35 | |
| 34 | | 19.50 | 98.66 | | | | | | | | 1.09 | 0.92 | 1.05 | | | 2.11 | 2.31 | 2.13 | | | | 4.58 | 5.13 | |
| * 35 | | 20.00 | 98.66 | | | | | | | | 0.63 | 0.47 | 1.03 | * | | 2.75 | 3.81 | * 2.68 | | | | 36.45 | 4.01 | |
| * 36 | | 20.50 | 99.01 | | | | | | | | 0.96 | | * 0.97 | | | 1.09 | 1.08 | 1.07 | | | | 0.74 | 1.12 | |
| 37 | | 21.00 | 99.65 | | | | | | | | | | | | | | | | | | | | 0.18 | 0.24 |
| 38 | | 22.00 | 99.40 | | | | | | | | | | | | | | | | | | | | 0.67 | 0.87 |
| 39 | | 23.00 | 99.01 | | | | | | | | | | | | | 0.88 | 0.86 | 0.86 | | | | 1.64 | 2.66 | |
| 40 | | 24.00 | 99.27 | | | | | | | | | | | | | | | | | | | | 1.19 | 1.93 |
| 41 | | 25.00 | 99.19 | | | | | | | | | | | | | | | | | | | | 1.34 | 2.17 |
| * 42 | | 25.50 | 98.76 | | | | | | | | | 0.00 | 0.00 | | | 0.15 | 0.15 | 0.15 | | | | 0.15 | 0.24 | |
| * 43 | | 26.00 | 98.46 | | | | | | | | 0.35 | 0.27 | 0.99 | * | | 1.62 | 2.16 | * 1.58 | | | | 20.69 | 2.08 | |
| 44 | | 26.50 | 98.16 | | | 0.20 | 0.20 | 0.20 | | | 0.91 | 0.92 | 0.92 | | | 2.33 | 2.25 | 2.29 | | | | 4.32 | 7.26 | |
| 45 | | 27.00 | 98.16 | | | 0.26 | 0.25 | 0.25 | | | 0.84 | 0.88 | 0.88 | | | 1.91 | 1.80 | 1.83 | | | | 2.69 | 4.50 | |
| 46 | | 27.50 | 98.16 | | | | 0.07 | 0.13 | | | 0.67 | 0.53 | 0.63 | | | 1.59 | 1.81 | 1.63 | | | | 5.38 | 5.37 | |
| 47 | | 28.00 | 98.16 | | | | 0.15 | 0.24 | | | 0.73 | 0.63 | 0.71 | | | 1.32 | 1.43 | 1.33 | | | | 2.47 | 2.87 | |
| 48 | | 29.20 | 99.16 | | | | | | | | | | | | | | | | | | | | 0.35 | 0.56 |
| 49 | | 31.60 | 101.24 | | | | | | | | | | | | | | | | | | | | | |
| 50 | | 32.00 | 102.00 | | | | | | | | | | | | | | | | | | | | | |
| Total | | | | | | 2 * | | | 0 * | | | 9 * | | | 10 * | | | 6 * | | | 0 * | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.6 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | | | | | |
|---|-------|-------|------|-------|-------|-------------|-------|----------|--------------|-------|----------|---------------|-------|----------|--------|------|
| Transect 6 | | | | | | | | | | | | | | | | |
| WSE (ft) | | 95.01 | | 95.24 | | | 95.73 | | | 96.20 | | | 97.27 | | | |
| Disch (cfs) | | 2.4 | | 6 | | | 17.50 | | | 33.00 | | | 82.50 | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * Rev * | Meas | Orig | * Rev * | Meas | Orig | * Rev * | Orig | Rev |
| 1 | 0.00 | 99.06 | | | | | | | | | | | | | | |
| 2 | 0.20 | 97.44 | | | | | | | | | | | | | | |
| 3 | 6.00 | 96.82 | | | | | | | | | | | | | 0.82 | 0.09 |
| 4 | 7.00 | 98.46 | | | | | | | | | | | | | | |
| 5 | 8.00 | 98.43 | | | | | | | | | | | | | | |
| * 6 | 8.49 | 96.20 | | | | | | | | | | | 0.01 | | 1.47 | 0.15 |
| 7 | 8.50 | 95.80 | | | | | | | | | | 0.00 | 1.12 | * 0.10 | 1.82 | 0.19 |
| 8 | 9.00 | 96.00 | | | | | | | | | | 0.00 | 0.71 | * 0.10 | 1.65 | 0.27 |
| * 9 | 10.00 | 95.60 | | | | | | | 0.52 | 0.58 | 0.57 | 0.70 | 0.70 | 0.71 | 0.69 | 0.80 |
| * 10 | 11.00 | 95.20 | | | | | | | 0.67 | 0.70 | 0.69 | 0.39 | 0.41 | 0.41 | 0.14 | 0.16 |
| 11 | 12.00 | 95.00 | | | | | | | 0.21 | 0.22 | 0.21 | 0.10 | 0.11 | 0.11 | 0.03 | 0.03 |
| 12 | 13.00 | 95.40 | | | | | | | 1.40 | 1.42 | 1.40 | 0.58 | 0.61 | 0.61 | 0.14 | 0.15 |
| 13 | 13.50 | 95.40 | | | | | | | 0.77 | 0.81 | 0.79 | 0.49 | 0.51 | 0.51 | 0.19 | 0.22 |
| 14 | 14.00 | 94.10 | | 0.23 | 0.29 | 0.34 | 0.33 | 0.35 | 0.33 | 0.34 | 0.34 | 0.29 | 0.30 | 0.30 | 0.19 | 0.22 |
| 15 | 14.50 | 94.00 | | 0.10 | 0.13 | 0.28 | 0.20 | 0.21 | 0.15 | 0.32 | 0.31 | 0.52 | 0.36 | 0.36 | 0.32 | 0.37 |
| 16 | 15.00 | 94.30 | | 0.07 | 0.09 | 0.40 | 0.30 | 0.31 | 0.52 | 1.04 | * 1.02 * | 2.66 | 1.89 | * 1.91 * | 3.35 | 3.88 |
| * 17 | 15.50 | 94.20 | | 0.04 | 0.12 | 0.29 | 0.28 | 0.48 | 1.58 | 1.73 | 1.87 | 4.38 | 4.42 | 3.86 | 12.79 | 9.07 |
| 18 | 16.00 | 93.70 | | 0.23 | 0.29 | 0.96 | 0.86 | 0.90 | 2.10 | 2.69 | * 2.65 * | 5.01 | 4.61 | 4.65 | 7.46 | 8.66 |
| 19 | 16.50 | 93.70 | | 0.47 | 0.61 | 1.30 | 1.23 | 1.29 | 2.25 | 2.50 | 2.45 | 3.30 | 3.30 | 3.33 | 3.68 | 4.26 |
| 20 | 17.00 | 93.70 | | 0.85 | 1.09 | 1.69 | 1.48 | 1.55 | 1.39 | 1.88 | * 1.84 * | 2.10 | 1.88 | 1.89 | 1.40 | 1.61 |
| 21 | 17.50 | 93.90 | | 0.88 | 1.12 | 2.01 | 1.88 | 1.96 | 2.59 | 3.01 | 2.96 | 3.56 | 3.47 | 3.49 | 3.17 | 3.66 |
| 22 | 18.00 | 94.00 | | 1.11 | 1.42 | 1.99 | 1.94 | 2.03 | 2.36 | 2.47 | 2.42 | 2.39 | 2.48 | 2.49 | 1.85 | 2.14 |
| 23 | 18.50 | 95.00 | | 1.36 | 1.74 | 1.64 | 1.78 | 1.86 | 1.98 | 1.61 | 1.58 | * 1.10 | 1.32 | 1.33 | * 0.74 | 0.85 |
| * 24 | 19.00 | 94.80 | | 1.67 | 1.31 | 1.26 | 1.48 | 1.21 | 1.29 | 0.86 | * 0.87 * | 0.40 | 0.54 | 0.66 | * 0.21 | 0.37 |
| 25 | 19.50 | 94.20 | | 0.03 | 0.03 | 0.06 | 0.10 | 0.11 | 1.37 | 0.36 | * 0.35 * | 0.28 | 0.65 | * 0.66 * | 1.13 | 1.32 |
| 26 | 20.00 | 94.70 | | 0.01 | 0.02 | 0.04 | 0.05 | 0.05 | 0.29 | 0.15 | 0.15 | 0.16 | 0.25 | 0.25 | 0.38 | 0.44 |
| 27 | 20.50 | 94.50 | | 0.02 | 0.03 | 0.05 | 0.07 | 0.07 | 0.33 | 0.16 | 0.16 | 0.15 | 0.24 | 0.24 | 0.31 | 0.37 |
| 28 | 21.00 | 94.50 | | 0.07 | 0.09 | 0.13 | 0.12 | 0.13 | 0.13 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.11 | 0.12 |
| 29 | 21.50 | 94.80 | | 0.04 | 0.05 | 0.07 | 0.11 | 0.11 | 0.68 | 0.23 | * 0.23 * | 0.16 | 0.32 | 0.32 | 0.37 | 0.43 |
| 30 | 22.00 | 95.10 | | | | 0.09 | 0.13 | 0.14 | 0.65 | 0.25 | * 0.25 * | 0.17 | 0.31 | 0.32 | 0.33 | 0.38 |
| 31 | 22.50 | 95.10 | | | | 0.10 | 0.15 | 0.15 | 0.40 | 0.16 | * 0.16 * | 0.08 | 0.15 | 0.15 | 0.10 | 0.11 |
| * 32 | 23.00 | 94.85 | | 2.97 | 0.31 | 0.67 | 0.96 | * 0.38 * | 0.42 | 0.17 | * 0.37 | 0.03 | 0.05 | 0.34 | * 0.01 | 0.25 |
| * 33 | 23.50 | 94.45 | | 2.18 | 0.58 | 0.84 | 1.11 | * 0.59 * | 0.66 | 0.33 | * 0.47 | 0.09 | 0.14 | 0.39 | * 0.03 | 0.24 |
| 34 | 24.00 | 94.20 | | 0.12 | 0.16 | 0.21 | 0.25 | 0.26 | 0.62 | 0.39 | * 0.39 * | 0.32 | 0.44 | 0.45 | 0.39 | 0.46 |
| 35 | 24.50 | 94.25 | | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.08 | 0.15 | 0.15 | 0.66 | 0.49 | 0.50 | 2.06 | 2.40 |
| 36 | 25.00 | 94.25 | | -0.29 | -0.38 | 0.01 | -0.12 | -0.12 | -0.03 | 0.32 | * 0.31 * | 0.73 | 0.55 | 0.55 | 0.62 | 0.71 |
| * 37 | 25.50 | 93.90 | | 0.00 | 0.03 | 0.03 | 0.01 | 0.10 | 0.01 | 0.07 | 0.30 | * 0.54 | 0.18 | * 0.52 | 0.49 | 0.97 |
| 38 | 26.00 | 94.50 | | -0.14 | -0.08 | 0.01 | -0.07 | 0.00 | -0.10 | 0.12 | 0.14 | 0.34 | 0.22 | 0.21 | 0.26 | 0.25 |
| 39 | 26.50 | 95.10 | | | | 0.01 | 0.01 | 0.01 | 0.09 | 0.06 | 0.06 | 0.09 | 0.12 | 0.13 | 0.29 | 0.33 |
| * 40 | 27.00 | 95.20 | | | | | 0.01 | | 0.03 | 0.03 | 0.03 | 0.06 | 0.06 | 0.06 | 0.10 | 0.11 |
| 41 | 27.30 | 96.20 | | | | | | | | | | | 0.00 | | 0.03 | 0.04 |
| 42 | 28.50 | 97.05 | | | | | | | | | | | | | 0.01 | 0.02 |
| 43 | 29.60 | 96.67 | | | | | | | | | | | | | 0.02 | 0.03 |
| 44 | 30.40 | 97.34 | | | | | | | | | | | | | | |
| 45 | 31.40 | 96.36 | | | | | | | | | | | | | 0.03 | 0.04 |
| 46 | 32.20 | 98.05 | | | | | | | | | | | | | | |
| 47 | 32.33 | 98.38 | | | | | | | | | | | | | | |
| Total | | | | | | 4 * | 2 * | | 12 * | 12 * | | 5 * | 6 * | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3.7 - Summary of calibration details for original and revised input decks | | | | | | | | | | | | | | | | |
|---|----|-------|--------|------|-------|-------------|------|----------|-------------|------|----------|-------------|------|----------|------|------|
| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | | | | | |
| Transect 7 | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 96.79 | | 97.02 | | | 97.34 | | | 97.59 | | | 97.98 | | |
| Disch (cfs) | | | 2.4 | | 6 | | | 17.00 | | | 33.50 | | | 83.75 | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * Rev * | Meas | Orig | * Rev * | Meas | Orig | * Rev * | Orig | Rev |
| 1 | | 0.00 | 100.14 | | | | | | | | | | | | | |
| 2 | | 0.60 | 99.67 | | | | | | | | | | | | | |
| 3 | | 0.70 | 98.56 | | | | | | | | | | | | | |
| 4 | | 4.00 | 98.19 | | | | | | | | | | | | | |
| 5 | | 6.00 | 97.59 | | | | | | | | | | | | | |
| 6 | | 6.50 | 97.61 | | | | | | | | | | | | 2.12 | 0.31 |
| 7 | | 7.00 | 97.69 | | | | | | | | | | | | 2.05 | 0.30 |
| * | 8 | 7.50 | 97.54 | | | | | | | | | 0.00 | 0.62 | * 0.09 | 1.74 | 0.3 |
| 9 | | 8.00 | 97.39 | | | | | | | | | 1.74 | 1.66 | 1.66 | 2.30 | 0.34 |
| 10 | | 8.50 | 97.09 | | | | | | | | | 1.90 | 1.73 | 1.71 | 2.80 | 2.81 |
| * | 11 | 9.00 | 97.09 | | | 0.23 | | * 0.23 | 0.55 | 0.62 | 0.64 | 1.72 | 1.65 | 1.65 | 5.96 | 5.59 |
| 12 | | 9.50 | 96.69 | 0.22 | 0.22 | 0.50 | 0.44 | 0.44 | 0.56 | 0.77 | * 0.77 * | 1.27 | 1.04 | 1.05 | 3.85 | 3.85 |
| 13 | | 10.00 | 96.69 | 0.67 | 0.70 | 1.10 | 1.11 | 1.12 | 1.57 | 1.57 | 1.56 | 1.87 | 1.83 | 1.84 | 1.35 | 1.37 |
| * | 14 | 10.50 | 96.89 | | | 0.56 | 0.67 | 0.56 | 2.72 | 1.83 | * 1.47 * | 2.70 | 3.28 | * 2.60 | 1.95 | 1.96 |
| 15 | | 11.00 | 96.79 | | | 0.78 | 0.83 | 0.84 | 2.71 | 2.40 | 2.39 | 4.26 | 4.46 | 4.45 | 6.21 | 4.81 |
| 16 | | 11.50 | 96.89 | | | 1.49 | 1.43 | 1.45 | 2.45 | 2.71 | 2.71 | 4.15 | 3.84 | 3.85 | 8.88 | 8.85 |
| 17 | | 12.00 | 96.89 | | | 0.80 | 0.86 | 0.87 | 2.75 | 2.38 | 2.37 | 4.07 | 4.31 | 4.30 | 5.29 | 5.32 |
| 18 | | 12.50 | 96.99 | | | 1.43 | 1.41 | 1.43 | 2.22 | 2.32 | 2.31 | 3.12 | 2.99 | 2.99 | 8.28 | 8.24 |
| * | 19 | 13.00 | 96.99 | | | 0.73 | 0.84 | 0.73 | 2.60 | 1.94 | * 1.62 * | 2.71 | 3.12 | 2.59 | 3.62 | 3.64 |
| * | 20 | 13.50 | 97.09 | | 0.25 | 0.60 | | * 0.67 | 2.00 | 1.67 | 1.67 | 2.66 | 2.87 | 2.87 | 5.11 | 4.17 |
| * | 21 | 14.00 | 97.09 | | | 0.50 | | * 0.46 | 1.09 | 1.36 | * 1.35 * | 2.97 | 2.58 | 2.59 | 5.14 | 5.11 |
| 22 | | 14.50 | 97.19 | | | | | | 1.16 | 1.28 | 1.30 | 2.86 | 2.65 | 2.63 | 5.27 | 5.31 |
| * | 23 | 15.00 | 96.59 | 0.18 | 0.19 | 0.38 | 0.38 | 0.38 | 0.00 | 0.56 | * 0.56 * | 0.00 | 0.65 | * 0.65 * | 6.14 | 5.87 |
| 24 | | 15.50 | 96.69 | 0.46 | 0.46 | 0.62 | 0.32 | * 0.32 * | 0.04 | 0.17 | 0.17 | 0.24 | 0.11 | 0.11 | 0.65 | 0.65 |
| * | 25 | 16.00 | 97.09 | | 0.87 | 1.16 | | * 1.16 | 0.59 | 1.02 | * 1.32 * | 1.40 | 1.02 | * 1.35 | 0.05 | 0.05 |
| 26 | | 16.50 | 97.74 | | | | | | | | | | | | 0.88 | 1.20 |
| 27 | | 17.00 | 97.68 | | | | | | | | | | | | 1.41 | 4.55 |
| 28 | | 17.50 | 97.62 | | | | | | | | | | | | 1.64 | 5.28 |
| * | 29 | 18.00 | 97.39 | | | | | | 1.44 | | * 1.61 | 3.53 | 3.28 | 3.25 | 1.85 | 5.96 |
| 30 | | 18.50 | 97.60 | | | | | | | | | | | | 7.53 | 7.20 |
| 31 | | 20.50 | 97.68 | | | | | | | | | | | | 1.92 | 1.93 |
| 32 | | 21.00 | 97.44 | | | | | | | | | | | | 1.64 | 1.65 |
| 33 | | 21.50 | 97.39 | | | | | | | | | 1.32 | 1.25 | 1.26 | 2.43 | 2.44 |
| 34 | | 22.00 | 97.29 | | | | | | | | | 1.85 | 1.76 | 1.77 | 2.97 | 2.99 |
| 35 | | 22.50 | 97.19 | | | | | | 0.91 | 1.02 | 1.05 | 2.92 | 2.68 | 2.65 | 8.43 | 7.94 |
| 36 | | 23.00 | 97.09 | | | | | | 1.13 | 1.24 | 1.27 | 2.81 | 2.61 | 2.59 | 6.09 | 5.82 |
| 37 | | 23.50 | 96.79 | | | | | | 1.82 | 1.81 | 1.80 | 1.36 | 1.34 | 1.35 | 0.76 | 0.78 |
| 38 | | 24.00 | 95.89 | 1.10 | 1.15 | 0.68 | 0.69 | 0.70 | 2.06 | 2.00 | 1.99 | 3.73 | 3.71 | 3.71 | 7.38 | 7.37 |
| 39 | | 24.30 | 96.09 | 0.94 | 0.97 | 1.44 | 1.48 | 1.49 | 1.73 | 1.66 | 1.65 | 1.66 | 1.67 | 1.67 | 1.45 | 1.45 |
| 40 | | 24.60 | 96.39 | 0.64 | 0.67 | 1.68 | 1.5 | 1.50 | 1.55 | 2.03 | * 2.03 * | 2.74 | 2.32 | 2.33 | 2.38 | 2.41 |
| 41 | | 25.00 | 96.39 | 0.63 | 0.66 | 1.45 | 1.32 | 1.33 | 1.95 | 2.42 | * 2.41 * | 3.84 | 3.34 | 3.36 | 4.45 | 4.49 |
| 42 | | 25.30 | 96.39 | 0.96 | 1.00 | 1.56 | 1.44 | 1.45 | 2.42 | 2.93 | * 2.93 * | 4.95 | 4.36 | 4.38 | 6.40 | 6.45 |
| 43 | | 25.60 | 95.89 | 1.19 | 1.24 | 1.97 | 1.91 | 1.93 | 3.11 | 3.37 | 3.36 | 4.85 | 4.55 | 4.56 | 5.87 | 5.90 |
| 44 | | 26.00 | 95.69 | 1.80 | 1.87 | 2.12 | 2.16 | 2.18 | 3.51 | 3.41 | 3.41 | 4.32 | 4.30 | 4.30 | 5.05 | 5.05 |
| 45 | | 26.30 | 96.39 | 1.80 | 1.87 | 2.76 | 2.61 | 2.63 | 2.78 | 3.19 | 3.19 | 3.74 | 3.40 | 3.41 | 3.19 | 3.21 |
| * | 46 | 26.60 | 96.99 | 1.83 | 1.91 | 2.40 | 2.37 | 2.39 | 2.43 | 2.54 | 2.53 | 2.59 | 2.48 | 2.49 | 2.07 | 2.08 |
| 47 | | 27.00 | 97.09 | | | | | 1.37 * | 2.31 | 2.44 | 2.46 | 3.49 | 3.32 | 3.31 | 4.32 | 4.24 |
| 48 | | 27.30 | 97.59 | | | | | | 0.00 | 1.74 | * 1.74 * | 2.74 | 2.64 | 2.65 | 3.14 | 3.16 |
| 49 | | 28.20 | 99.36 | | | | | | | | | | | | 1.81 | 1.82 |
| 50 | | 28.35 | 99.52 | | | | | | | | | | | | | |
| Total | | | | | | | 6 * | 1 * | | 11 * | 10 * | | 4 * | 1 * | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3.8 - Summary of calibration details for original and revised input decks | | | | | | | | | | | | | | | |
|---|-------|-------|------|-------|-------|-------|-------|--------|-------|-------|--------|--------|-------|-------------|-------------|
| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | | | | |
| Transect 8 | | | | | | | | | | | | | | | |
| WSE (ft) | | 97.31 | | 97.58 | | | 97.99 | | | 98.29 | | | 98.80 | | |
| Disch (cfs) | | 2.40 | | 6.00 | | | 17.50 | | | 33.00 | | | 82.50 | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * Rev | Meas | Orig | * Rev | Meas | Orig | * Rev | |
| 1 | 0.00 | ***** | | | | | | | | | | | | | |
| 2 | 0.10 | ***** | | | | | | | | | | | | | |
| 3 | 1.90 | ***** | | | | | | | | | | | | | |
| 4 | 3.00 | ***** | | | | | | | | | | | | | |
| 5 | 4.00 | 99.42 | | | | | | | | | | | | | |
| 6 | 12.00 | 98.30 | | | | | | | | | | | | -0.01 -0.01 | |
| 7 | 13.00 | 98.50 | | | | | | | | | | | | 0.00 0.00 | |
| 8 | 13.70 | 98.20 | | | | | | | | | | 0.00 | 0.00 | 0.00 | |
| 9 | 14.00 | 98.63 | | | | | | | | | | | | 0.00 0.00 | |
| 10 | 14.30 | 98.10 | | | | | | | | | | 0.00 | 0.00 | 0.00 | |
| * 11 | 15.00 | 97.50 | | | | | 0.00 | 0.00 | 0.00 | 0.00 | -0.01 | ***** | 0.00 | -0.01 | ***** |
| 12 | 15.50 | 97.40 | | | | 0.00 | 0.00 | 0.00 | 0.00 | -0.01 | ***** | 0.00 | -0.01 | ***** | -0.01 -0.01 |
| 13 | 16.50 | 97.30 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.01 | ***** | 0.00 | -0.01 | ***** | -0.01 -0.01 |
| 14 | 16.50 | 97.25 | | 0.00 | 0.00 | 0.00 | -0.01 | -0.01 | 0.00 | -0.01 | ***** | 0.00 | -0.01 | ***** | -0.01 -0.01 |
| 15 | 17.00 | 97.15 | | 0.00 | 0.00 | 0.00 | -0.01 | -0.01 | -0.01 | -0.01 | ***** | 0.00 | -0.01 | ***** | -0.02 -0.02 |
| 16 | 17.50 | 97.00 | | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 17 | 18.00 | 96.95 | | 0.04 | 0.03 | 0.00 | 0.05 | 0.05 | 0.00 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.09 0.10 |
| 18 | 18.50 | 97.20 | | 0.10 | 0.08 | 0.00 | 0.19 | 0.19 | 0.00 | 0.30 | * 0.30 | * 0.38 | 0.37 | 0.38 | 0.46 0.48 |
| * 19 | 18.90 | 97.20 | | 0.17 | 0.09 | 0.00 | 0.31 | * 0.16 | 0.00 | 0.49 | * 0.32 | * 0.63 | 0.62 | 0.48 | 0.76 0.85 |
| * 20 | 19.50 | 96.70 | | 0.00 | 0.03 | 0.01 | 0.01 | 0.07 | 0.10 | 0.11 | 0.19 | 0.47 | 0.45 | 0.33 | 3.32 0.71 |
| 21 | 20.00 | 96.70 | | 0.28 | 0.23 | 0.29 | 0.28 | 0.27 | 0.33 | 0.36 | 0.36 | 0.45 | 0.42 | 0.43 | 0.50 0.52 |
| 22 | 20.40 | 96.70 | | 0.32 | 0.26 | 0.36 | 0.36 | 0.36 | 0.55 | 0.54 | 0.54 | 0.70 | 0.70 | 0.70 | 0.94 0.98 |
| 23 | 20.80 | 96.70 | | 0.44 | 0.35 | 0.50 | 0.50 | 0.49 | 0.78 | 0.76 | 0.78 | 1.02 | 1.01 | 1.02 | 1.41 1.46 |
| 24 | 21.20 | 96.65 | | 0.37 | 0.30 | 0.50 | 0.53 | 0.51 | 1.14 | 1.01 | 1.02 | 1.46 | 1.53 | 1.54 | 2.61 2.70 |
| 25 | 21.60 | 96.60 | | 0.39 | 0.31 | 0.60 | 0.59 | 0.58 | 1.22 | 1.25 | 1.27 | 2.09 | 2.01 | 2.03 | 3.72 3.89 |
| 26 | 22.00 | 96.70 | | 0.35 | 0.28 | 0.58 | 0.56 | 0.55 | 1.15 | 1.24 | 1.25 | 2.17 | 2.04 | 2.05 | 3.90 4.08 |
| 27 | 22.40 | 96.65 | | 0.32 | 0.25 | 0.57 | 0.53 | 0.51 | 1.04 | 1.24 | 1.25 | 2.38 | 2.11 | 2.13 | 4.25 4.46 |
| 28 | 22.80 | 96.90 | | 0.44 | 0.34 | 0.74 | 0.68 | 0.66 | 1.23 | 1.48 | * 1.51 | * 2.76 | 2.43 | 2.45 | 4.60 4.82 |
| 29 | 23.20 | 96.90 | | 0.57 | 0.45 | 0.87 | 0.84 | 0.82 | 1.59 | 1.71 | 1.73 | 2.84 | 2.67 | 2.69 | 4.75 4.96 |
| 30 | 23.60 | 96.90 | | 0.52 | 0.40 | 0.82 | 0.78 | 0.76 | 1.46 | 1.63 | 1.66 | 2.84 | 2.61 | 2.63 | 4.78 5.00 |
| 31 | 24.00 | 96.85 | | 0.36 | 0.28 | 0.58 | 0.59 | 0.58 | 1.47 | 1.38 | 1.40 | 2.32 | 2.35 | 2.37 | 4.71 4.91 |
| 32 | 24.40 | 96.25 | | 0.30 | 0.23 | 0.52 | 0.50 | 0.49 | 1.12 | 1.21 | 1.22 | 2.23 | 2.09 | 2.11 | 4.31 4.51 |
| 33 | 24.80 | 96.15 | | 0.13 | 0.10 | 0.29 | 0.29 | 0.28 | 1.00 | 0.99 | 1.00 | 2.13 | 2.10 | 2.12 | 5.81 6.08 |
| * 34 | 25.20 | 96.25 | | 0.02 | 0.06 | 0.07 | 0.08 | 0.17 | 0.85 | 0.54 | * 0.59 | * 1.34 | 1.69 | * 1.22 | 8.08 3.39 |
| 35 | 25.60 | 96.40 | | 0.06 | 0.05 | 0.15 | 0.15 | 0.14 | 0.50 | 0.51 | 0.52 | 1.15 | 1.11 | 1.12 | 3.13 3.28 |
| 36 | 26.00 | 96.40 | | 0.23 | 0.18 | 0.30 | 0.29 | 0.28 | 0.44 | 0.48 | 0.48 | 0.71 | 0.66 | 0.67 | 0.99 1.04 |
| 37 | 26.40 | 96.40 | | 0.38 | 0.30 | 0.49 | 0.42 | 0.41 | 0.42 | 0.60 | 0.61 | 0.96 | 0.77 | 0.78 | 1.01 1.07 |
| 38 | 26.80 | 96.25 | | 0.67 | 0.53 | 0.83 | 0.78 | 0.77 | 1.08 | 1.22 | 1.24 | 1.80 | 1.64 | 1.66 | 2.34 2.44 |
| 39 | 27.20 | 96.20 | | 0.62 | 0.49 | 0.86 | 0.84 | 0.82 | 1.47 | 1.55 | 1.57 | 2.40 | 2.28 | 2.30 | 3.74 3.90 |
| 40 | 27.60 | 96.20 | | 0.39 | 0.31 | 0.62 | 0.63 | 0.61 | 1.45 | 1.40 | 1.42 | 2.34 | 2.33 | 2.35 | 4.52 4.71 |
| 41 | 28.00 | 96.25 | | 0.85 | 0.67 | 1.02 | 1.00 | 0.98 | 1.49 | 1.56 | 1.58 | 2.18 | 2.08 | 2.10 | 2.96 3.08 |
| 42 | 28.40 | 96.20 | | 0.32 | 0.25 | 0.51 | 0.55 | 0.54 | 1.56 | 1.32 | 1.33 | 2.11 | 2.28 | 2.29 | 4.69 4.86 |
| 43 | 28.80 | 96.20 | | 0.15 | 0.12 | 0.34 | 0.34 | 0.33 | 1.16 | 1.14 | 1.16 | 2.44 | 2.41 | 2.43 | 6.58 6.89 |
| 44 | 29.20 | 96.50 | | 0.14 | 0.11 | 0.31 | 0.28 | 0.28 | 0.70 | 0.85 | 0.86 | 1.92 | 1.68 | 1.70 | 4.18 4.40 |
| * 45 | 29.60 | 96.65 | | 0.01 | 0.03 | 0.03 | 0.04 | 0.10 | 0.85 | 0.39 | * 0.40 | * 0.97 | 1.49 | * 0.94 | 9.66 3.12 |
| * 46 | 30.00 | 96.85 | | -0.83 | 0.03 | -0.09 | -0.04 | 0.10 | 0.79 | 0.66 | 0.42 | * 1.03 | 1.09 | 1.00 | 1.61 3.44 |
| * 47 | 30.40 | 96.80 | | -1.27 | 0.03 | -0.08 | -0.32 | * 0.10 | -0.11 | 0.45 | * 0.47 | * 1.24 | 0.91 | * 1.20 | 1.49 4.58 |
| * 48 | 30.80 | 96.80 | | -0.97 | 0.03 | -0.07 | -0.25 | 0.10 | -0.08 | 0.33 | * 0.39 | * 0.93 | 0.68 | * 0.89 | 1.12 2.90 |
| * 49 | 31.20 | 97.20 | | -0.62 | 0.07 | -0.13 | -0.22 | 0.13 | -0.10 | 0.10 | 0.26 | 0.40 | 0.28 | 0.39 | 0.52 0.70 |
| 50 | 31.60 | 97.30 | | -0.59 | -0.48 | -0.14 | -0.18 | -0.18 | 0.08 | 0.16 | 0.16 | 0.41 | 0.36 | 0.36 | 0.61 0.63 |
| 51 | 32.00 | 97.00 | | -0.48 | -0.39 | -0.07 | -0.14 | -0.15 | -0.05 | 0.12 | 0.12 | 0.38 | 0.28 | 0.28 | 0.48 0.50 |
| 52 | 32.40 | 96.80 | | -0.81 | -0.65 | -0.09 | 0.00 | 0.00 | 0.95 | 0.72 | * 0.73 | * 1.06 | 1.17 | 1.17 | 1.71 1.77 |
| 53 | 32.80 | 97.15 | | -0.76 | -0.61 | -0.08 | -0.06 | -0.07 | 0.60 | 0.55 | 0.55 | 0.90 | 0.92 | 0.92 | 1.37 1.42 |
| 54 | 33.20 | 96.80 | | -0.61 | -0.50 | -0.03 | -0.17 | -0.18 | -0.14 | 0.18 | 0.18 | 0.58 | 0.39 | 0.40 | 0.66 0.69 |
| 55 | 33.60 | 98.10 | | | | | | | | | | 0.18 | 0.17 | 0.17 | 0.39 0.40 |
| 56 | 34.00 | 98.20 | | | | | | | | | | 0.00 | 0.10 | 0.10 | 0.35 0.36 |
| 57 | 34.10 | 98.30 | | | | | | | | | | | | | 0.31 0.32 |
| 58 | 34.20 | 98.40 | | | | | | | | | | | | | 0.27 0.28 |
| 59 | 34.90 | 98.80 | | | | | | | | | | | | | |
| 60 | 35.70 | 99.65 | | | | | | | | | | | | | |
| 61 | 35.82 | 99.81 | | | | | | | | | | | | | |
| Total | | | | | | 2 * | 0 * | | 8 * | 10 * | | 4 * | 0 * | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3. 9- Summary of calibration details for original and revised input decks | | | | | | | | | | | | | | | | | |
|---|------|--------|------|-------|-----|--------------|-------|-------|-----|-------|--------------|-------|----------|-----|-----|--------------|---------------|
| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | | | | | | |
| Transect 9 | | | | | | | | | | | | | | | | | |
| WSE (ft) | | 97.41 | | 97.66 | | | 98.12 | | | 98.52 | | | 99.37 | | | | |
| Disch (cfs) | | 2.40 | | 6.00 | | | 17.50 | | | 33.00 | | | 82.50 | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * | Rev | * | Meas | Orig | * | Rev | * | Orig | Rev |
| 1 | 0.0 | 100.34 | | | | | | | | | | | | | | | |
| 2 | 0.1 | 100.08 | | | | | | | | | | | | | | | |
| 3 | 0.8 | 98.92 | | | | | | | | | | | | | | 0.01 | 0.16 |
| 4 | 5.8 | 98.53 | | | | | | | | | | | | | | 0.02 | 0.40 |
| 5 | 6.0 | 98.48 | | | | | | | | | | | | | | 0.02 | 0.43 |
| 6 | 8.0 | 98.43 | | | | | | | | | | | | | | 0.03 | 0.27 |
| 7 | 10.0 | 98.07 | | | | | | | | | 0.00 | 0.01 | 0.04 | | | 0.03 | 0.13 |
| * 8 | 12.0 | 97.72 | | | | | | | | | 0.03 | 0.06 | 0.03 | | | -0.01 | -0.02 0.04 |
| * 9 | 14.0 | 97.62 | | | | | | | | | -0.50 | -0.71 | * 0.42 | | | -0.34 | -0.29 0.46 |
| * 10 | 15.0 | 97.02 | 0.08 | 0.03 | | -0.11 | -0.10 | 0.11 | | | -0.25 | -0.42 | 0.34 | | | -0.62 | -0.52 0.60 |
| 11 | 16.0 | 96.62 | 0.04 | 0.07 | | -0.11 | -0.08 | -0.06 | | | -0.08 | -0.30 | * ***** | | | -0.50 | -0.36 ***** |
| 12 | 17.0 | 96.42 | 0.20 | 0.24 | | 0.05 | 0.05 | 0.07 | | | -0.16 | -0.28 | ***** | | | -0.49 | -0.42 ***** |
| 13 | 18.0 | 96.17 | 0.06 | 0.07 | | 0.03 | 0.03 | 0.03 | | | -0.04 | -0.05 | ***** | | | -0.09 | -0.09 ***** |
| 14 | 19.0 | 95.92 | 0.03 | 0.05 | | 0.01 | 0.03 | 0.04 | | | 0.11 | 0.01 | 0.00 | | | -0.10 | -0.01 ***** |
| * 15 | 20.0 | 95.52 | 0.04 | 0.02 | | 0.03 | 0.04 | 0.03 | | | 0.07 | 0.02 | 0.05 | | | -0.05 | 0.00 0.06 |
| 16 | 21.0 | 95.22 | 0.03 | 0.03 | | 0.10 | 0.11 | 0.10 | | | 0.34 | 0.37 | 0.35 | | | 0.62 | 0.63 0.65 |
| 17 | 21.3 | 95.22 | 0.01 | 0.01 | | 0.08 | 0.07 | 0.06 | | | 0.14 | 0.34 | 0.33 | | | 1.30 | 0.69 * 0.75 * |
| 18 | 21.6 | 95.22 | 0.02 | 0.02 | | 0.09 | 0.09 | 0.07 | | | 0.15 | 0.32 | 0.31 | | | 0.98 | 0.58 * 0.63 * |
| 19 | 22.0 | 95.72 | 0.01 | 0.01 | | 0.06 | 0.05 | 0.05 | | | 0.11 | 0.32 | * 0.31 | | | 1.73 | 0.78 * 0.87 * |
| 20 | 22.3 | 95.37 | 0.02 | 0.02 | | 0.13 | 0.14 | 0.13 | | | 0.81 | 0.94 | 0.91 | | | 2.58 | 2.43 2.55 |
| * 21 | 22.6 | 95.32 | 0.02 | 0.04 | | 0.11 | 0.12 | 0.20 | | | 0.88 | 0.95 | 0.99 | | | 2.75 | 2.72 2.27 |
| 22 | 23.0 | 95.02 | 0.04 | 0.04 | | 0.22 | 0.24 | 0.22 | | | 1.25 | 1.36 | 1.31 | | | 3.26 | 3.23 3.36 |
| 23 | 23.3 | 94.82 | 0.09 | 0.10 | | 0.38 | 0.42 | 0.39 | | | 1.67 | 1.67 | 1.58 | | | 2.86 | 3.10 3.18 |
| 24 | 23.6 | 94.92 | 0.15 | 0.16 | | 0.50 | 0.58 | 0.55 | | | 2.39 | 1.87 | * 1.76 * | | | 2.31 | 3.06 * 3.08 * |
| 25 | 24.0 | 94.92 | 0.33 | 0.36 | | 0.75 | 0.85 | 0.83 | | | 2.36 | 1.82 | * 1.69 * | | | 1.66 | 2.27 * 2.26 * |
| 26 | 24.5 | 95.02 | 0.40 | 0.44 | | 0.88 | 0.96 | 0.93 | | | 2.08 | 1.87 | 1.73 | | | 1.79 | 2.18 * 2.19 * |
| 27 | 25.0 | 95.02 | 0.30 | 0.33 | | 0.68 | 0.73 | 0.70 | | | 1.51 | 1.45 | 1.35 | | | 1.49 | 1.72 1.74 |
| * 28 | 26.0 | 95.62 | 0.12 | 0.12 | | 0.30 | 0.25 | 0.30 | | | 0.13 | 0.40 | * 0.68 * | | | 0.89 | 0.41 * 0.97 |
| 29 | 27.0 | 94.92 | 0.02 | 0.02 | | 0.05 | 0.06 | 0.05 | | | 0.16 | 0.15 | 0.14 | | | 0.19 | 0.22 0.22 |
| 30 | 28.0 | 94.87 | 0.04 | 0.04 | | 0.10 | 0.10 | 0.09 | | | 0.11 | 0.18 | 0.16 | | | 0.27 | 0.20 0.21 |
| * 31 | 29.0 | 95.02 | 0.07 | 0.00 | | 0.01 | 0.04 | 0.01 | | | 0.14 | -0.04 | 0.10 | | | -0.23 | -0.09 0.32 |
| * 32 | 30.0 | 95.12 | 0.07 | 0.00 | | 0.02 | 0.04 | 0.02 | | | 0.11 | -0.04 | 0.10 | | | -0.19 | -0.08 0.21 |
| * 33 | 32.0 | 96.12 | 0.09 | 0.00 | | 0.01 | 0.04 | 0.01 | | | 0.08 | -0.09 | 0.09 | | | -0.28 | -0.15 0.28 |
| * 34 | 34.0 | 97.12 | 0.48 | 0.20 | | 0.34 | 0.36 | 0.34 | | | 0.11 | -0.07 | 0.48 * | | | -0.49 | -0.33 0.52 |
| * 35 | 36.0 | 98.12 | | | | | | | | | 0.05 | | | | | 0.00 | 0.27 * 0.10 |
| 36 | 36.5 | 98.53 | | | | | | | | | | | | | | 0.21 | 0.10 |
| 37 | 37.1 | 100.17 | | | | | | | | | | | | | | | |
| 38 | 38.0 | 101.56 | | | | | | | | | | | | | | | |
| Total | | | | | | 1 * | 0 * | | | | 6 * | 4 * | | | 8 * | 6 * | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3.10 - Summary of calibration details for original and revised input decks | | | | | | | | | | | | | | | | | | |
|--|-------|--------|-------|-------|-------|--------------|-------|--------|--------------|------|--------|--------|-------|-------|-------------|-------|-------------|--|
| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | | | | | | | |
| Transect 10 | | | | | | | | | | | | | | | | | | |
| WSE (ft) | | | 97.26 | | 97.62 | | | | 98.13 | | | | 98.52 | | | | 99.15 | |
| Disch (cfs) | | | 2.4 | | 6 | | | | 17.00 | | | | 33.50 | | | | 83.75 | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | * Rev | * Meas | Orig | * Rev | * Meas | Orig | * Rev | * Meas | Orig | Rev | |
| 1 | 0.00 | 101.30 | | | | | | | | | | | | | | | | |
| 2 | 0.10 | 101.04 | | | | | | | | | | | | | | | | |
| 3 | 8.30 | 99.08 | | | | | | | | | | | | | | | -0.02 -0.02 | |
| 4 | 9.30 | 98.92 | | | | | | | | | | | | | | | -0.05 -0.05 | |
| 5 | 11.40 | 99.07 | | | | | | | | | | | | | | | -0.02 -0.02 | |
| 6 | 12.00 | 98.57 | | | | | | | | | | | | | | | -0.09 -0.09 | |
| 7 | 12.20 | 98.54 | | | | | | | | | | | | | | | -0.09 -0.09 | |
| 8 | 14.00 | 98.14 | | | | | | | | | | | | | 0.00 | -0.09 | ***** | |
| 9 | 15.00 | 97.99 | | | | | | | -0.04 | 0.00 | ***** | | | | 0.20 | 0.18 | 0.18 | |
| 10 | 16.00 | 97.84 | | | | | | | | 0.04 | 0.04 | | | | 0.00 | 0.07 | 0.07 | |
| 11 | 17.00 | 97.59 | | | | 0.00 | 0.01 | 0.01 | 0.00 | 0.06 | 0.06 | | | | 0.00 | 0.08 | 0.08 | |
| 12 | 18.00 | 97.59 | | | | 0.01 | 0.01 | 0.01 | 0.00 | 0.06 | 0.06 | | | | 0.20 | 0.17 | 0.18 | |
| 13 | 19.00 | 96.54 | | -0.36 | -0.26 | -0.07 | -0.12 | -0.11 | -0.05 | 0.05 | 0.04 | | | | 0.20 | 0.15 | 0.14 | |
| 14 | 19.50 | 96.24 | | 0.23 | 0.22 | 0.26 | 0.15 | 0.17 | -0.10 | 0.12 | 0.12 | | | | 0.20 | 0.10 | 0.08 | |
| 15 | 20.00 | 96.09 | | 0.15 | 0.37 | 0.43 | 0.22 | * 0.44 | -0.08 | 0.35 | * 0.54 | * | | | 0.60 | 0.41 | 0.59 | |
| 16 | 20.50 | 96.09 | | -1.59 | 0.14 | 0.19 | -0.26 | 0.32 | -0.05 | 0.83 | * 0.89 | * | | | 1.88 | 1.47 | * 1.61 | |
| 17 | 21.00 | 96.04 | | 0.07 | 0.08 | 0.23 | 0.16 | 0.22 | 0.21 | 0.51 | * 0.71 | * | | | 1.54 | 1.02 | * 1.40 | |
| 18 | 21.50 | 95.94 | | 0.06 | 0.15 | 0.28 | 0.14 | 0.38 | 0.12 | 0.53 | * 1.21 | * | | | 2.44 | 1.22 | * 2.37 | |
| 19 | 22.00 | 95.74 | | 0.04 | 0.12 | 0.16 | 0.15 | 0.35 | 0.65 | 0.85 | 1.24 | * | | | 2.82 | 2.47 | 2.65 | |
| 20 | 22.50 | 95.54 | | 0.14 | 0.18 | 0.26 | 0.33 | 0.45 | 1.65 | 1.24 | * 1.30 | * | | | 2.44 | 2.78 | 2.43 | |
| 21 | 23.00 | 95.64 | | 0.50 | 0.36 | 0.69 | 0.78 | 0.72 | 1.86 | 1.75 | 1.70 | | | | 2.71 | 2.81 | 2.76 | |
| 22 | 23.50 | 95.64 | | 1.78 | 1.29 | 1.54 | 1.72 | 1.62 | 2.36 | 2.24 | 2.19 | | | | 2.43 | 2.53 | 2.49 | |
| 23 | 24.00 | 95.74 | | 2.54 | 1.82 | 1.83 | 1.99 | 1.83 | 2.07 | 2.05 | 1.93 | | | | 1.94 | 1.99 | 1.87 | |
| 24 | 24.50 | 95.79 | | 1.27 | 0.97 | 1.09 | 1.07 | 1.03 | 0.99 | 1.19 | 1.17 | | | | 1.31 | 1.22 | 1.18 | |
| 25 | 25.00 | 95.79 | | 0.18 | 0.12 | 0.23 | 0.27 | 0.25 | 0.68 | 0.59 | 0.58 | | | | 0.88 | 0.94 | 0.93 | |
| 26 | 25.50 | 95.64 | | 0.07 | 0.04 | 0.09 | 0.13 | 0.11 | 0.61 | 0.37 | * 0.36 | * | | | 0.54 | 0.68 | 0.70 | |
| 27 | 26.00 | 95.64 | | 0.02 | 0.01 | 0.04 | 0.05 | 0.05 | 0.34 | 0.25 | 0.24 | | | | 0.56 | 0.65 | 0.65 | |
| 28 | 26.50 | 95.64 | | 0.01 | 0.01 | 0.05 | 0.05 | 0.04 | 0.20 | 0.29 | 0.29 | | | | 1.12 | 0.93 | 0.92 | |
| 29 | 27.00 | 95.84 | | -1.02 | -0.75 | -0.07 | -0.24 | -0.22 | 0.04 | 0.37 | * 0.37 | * | | | 0.89 | 0.73 | 0.71 | |
| 30 | 27.50 | 95.94 | | -0.75 | -0.55 | -0.12 | -0.20 | -0.18 | 0.08 | 0.23 | 0.22 | | | | 0.55 | 0.48 | 0.45 | |
| 31 | 28.00 | 95.74 | | -0.46 | -0.35 | -0.12 | -0.14 | -0.13 | 0.08 | 0.11 | 0.10 | | | | 0.27 | 0.25 | 0.25 | |
| 32 | 29.00 | 95.89 | | -0.06 | -0.06 | -0.01 | 0.01 | 0.00 | 0.09 | 0.07 | 0.06 | | | | 0.09 | 0.10 | 0.10 | |
| 33 | 30.00 | 96.34 | | 0.01 | 0.00 | 0.01 | 0.01 | 0.01 | 0.11 | 0.07 | 0.06 | | | | 0.13 | 0.16 | 0.17 | |
| 34 | 31.00 | 96.99 | | 0.24 | 0.18 | 0.08 | 0.09 | 0.08 | 0.00 | 0.04 | 0.04 | | | | 0.02 | 0.02 | 0.02 | |
| 35 | 32.00 | 97.09 | | 0.09 | 0.07 | 0.05 | 0.05 | 0.05 | 0.00 | 0.04 | 0.04 | | | | 0.03 | 0.03 | 0.03 | |
| 36 | 33.00 | 97.49 | | | | 0.69 | 0.84 | 0.74 | 0.00 | 0.10 | 0.09 | | | | 0.02 | 0.02 | 0.02 | |
| 37 | 33.85 | 98.54 | | | | | | | | | | | | | | | 0.00 0.00 | |
| 38 | 33.86 | 99.88 | | | | | | | | | | | | | | | 1.46 1.47 | |
| Total | | | | | | 1 * | 0 * | | 7 * | 8 * | | 3 * | 0 * | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3.11 - Summary of calibration details for original and revised input decks | | | | | | | | | | | | | | | | |
|--|----|-------|-------|-------|------|-------|------|--------|------|-------|--------|--------|------|--------|------|------|
| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | | | | | |
| Transect 11 | | | | | | | | | | | | | | | | |
| WSE (ft) | | 97.28 | | 97.48 | | 97.77 | | 98.00 | | 98.40 | | | | | | |
| Disch (cfs) | | 2.40 | | 6.00 | | 17.00 | | 33.50 | | 83.75 | | | | | | |
| Rv | Pt | Sta | Elev | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Meas | Orig | Rev | Orig | Rev |
| 1 | | 0.00 | ***** | | | | | | | | | | | | | |
| 2 | | 0.10 | 99.94 | | | | | | | | | | | | | |
| 3 | | 4.90 | 98.01 | | | | | | | | | | | | | |
| 4 | | 5.50 | 97.81 | | | | | | | | | | | | | |
| 5 | | 6.00 | 97.81 | | | | | | | | | 0.00 | 0.05 | 0.05 | 0.08 | 0.08 |
| 6 | | 6.50 | 97.71 | | | | | | 0.00 | 0.02 | 0.02 | 0.00 | 0.06 | 0.06 | 0.09 | 0.09 |
| 7 | | 7.00 | 97.41 | | | 0.00 | 0.02 | 0.02 | 0.00 | 0.07 | 0.07 | 0.10 | 0.10 | 0.10 | 0.12 | 0.12 |
| 8 | | 7.50 | 97.41 | | | 0.00 | 0.02 | 0.02 | 0.00 | 0.07 | 0.07 | 0.00 | 0.09 | 0.09 | 0.11 | 0.11 |
| 9 | | 8.00 | 97.51 | | | | | | 0.00 | 0.05 | 0.05 | 0.08 | 0.08 | 0.08 | 0.10 | 0.10 |
| 10 | | 8.50 | 97.46 | | | 0.00 | 0.02 | 0.01 | 0.00 | 0.11 | 0.11 | 0.15 | 0.15 | 0.15 | 0.18 | 0.18 |
| 11 | | 9.00 | 97.31 | | | 0.00 | 0.02 | 0.02 | 0.00 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 |
| 12 | | 9.50 | 97.91 | | | | | | | | | 0.00 | 0.05 | 0.05 | 0.13 | 0.13 |
| 13 | | 10.00 | 97.91 | | | | | | | | | 0.00 | 0.05 | 0.05 | 0.13 | 0.13 |
| 14 | | 10.50 | 97.71 | | | | | | 0.00 | 0.04 | 0.04 | 0.11 | 0.11 | 0.11 | 0.16 | 0.16 |
| 15 | | 11.00 | 97.21 | 0.15 | 0.15 | 0.25 | 0.18 | 0.18 | 0.10 | 0.21 | 0.21 | 0.33 | 0.22 | 0.22 | 0.21 | 0.22 |
| 16 | | 11.50 | 97.21 | 0.07 | 0.07 | 0.13 | 0.17 | 0.17 | 0.68 | 0.42 | * 0.42 | * 0.55 | 0.73 | 0.72 | 1.38 | 1.35 |
| 17 | * | 12.00 | 97.26 | 0.06 | 0.08 | 0.14 | 0.19 | 0.20 | 1.15 | 0.62 | * 0.50 | * 0.87 | 1.25 | * 0.86 | 2.92 | 1.60 |
| 18 | | 12.50 | 97.26 | 0.53 | 0.55 | 0.83 | 0.92 | 0.91 | 1.77 | 1.53 | 1.52 | 1.82 | 2.01 | 1.99 | 2.64 | 2.61 |
| 19 | | 13.00 | 97.31 | | | 0.38 | 0.39 | 0.39 | 0.66 | 0.67 | 0.67 | 0.90 | 0.91 | 0.90 | 1.23 | 1.22 |
| 20 | * | 13.50 | 97.06 | 1.16 | 1.44 | 1.07 | 0.67 | * 0.92 | 0.10 | 0.31 | * 0.52 | * 0.33 | 0.18 | 0.34 | 0.08 | 0.17 |
| 21 | | 14.00 | 97.26 | 0.20 | 0.20 | 0.50 | 0.48 | 0.47 | 0.97 | 1.15 | 1.15 | 2.09 | 1.93 | 1.93 | 3.51 | 3.52 |
| 22 | | 14.50 | 97.01 | 0.29 | 0.30 | 0.47 | 0.48 | 0.48 | 0.74 | 0.75 | 0.75 | 0.94 | 0.95 | 0.94 | 1.18 | 1.17 |
| 23 | | 15.00 | 97.11 | 0.08 | 0.09 | 0.24 | 0.24 | 0.24 | 0.64 | 0.70 | 0.70 | 1.38 | 1.34 | 1.33 | 2.89 | 2.88 |
| 24 | * | 15.50 | 97.51 | | 0.45 | 0.73 | | * 0.78 | 1.49 | 1.36 | 1.36 | 1.72 | 1.84 | 1.83 | 2.50 | 2.48 |
| 25 | | 16.00 | 97.41 | | | 0.72 | 0.66 | 0.64 | 0.97 | 1.29 | * 1.29 | * 2.19 | 1.90 | 1.90 | 2.90 | 2.92 |
| 26 | | 16.50 | 96.91 | 0.39 | 0.40 | 0.69 | 0.78 | 0.77 | 1.78 | 1.49 | 1.49 | 1.94 | 2.17 | 2.15 | 3.26 | 3.22 |
| 27 | | 17.00 | 97.01 | 0.89 | 0.90 | 0.70 | 0.61 | 0.60 | 0.24 | 0.35 | 0.35 | 0.28 | 0.23 | 0.23 | 0.12 | 0.12 |
| 28 | | 17.50 | 97.01 | 0.44 | 0.45 | 0.56 | 0.47 | 0.46 | 0.27 | 0.44 | 0.44 | 0.51 | 0.40 | 0.40 | 0.32 | 0.32 |
| 29 | * | 18.00 | 97.01 | 0.19 | 0.23 | 0.46 | 0.38 | 0.46 | 0.46 | 0.75 | * 0.94 | * 1.42 | 1.10 | * 1.40 | 1.68 | 2.19 |
| 30 | | 18.50 | 96.86 | 0.13 | 0.14 | 0.34 | 0.34 | 0.33 | 0.80 | 0.86 | 0.85 | 1.52 | 1.49 | 1.48 | 2.84 | 2.83 |
| 31 | | 19.00 | 96.91 | 0.19 | 0.20 | 0.60 | 0.53 | 0.52 | 1.01 | 1.45 | * 1.45 | * 3.19 | 2.66 | 2.65 | 5.43 | 5.48 |
| 32 | | 19.50 | 96.91 | 0.10 | 0.11 | 0.37 | 0.36 | 0.35 | 1.12 | 1.30 | 1.30 | 3.05 | 2.86 | 2.84 | 7.45 | 7.44 |
| 33 | | 20.00 | 96.91 | 0.20 | 0.20 | 0.49 | 0.50 | 0.50 | 1.24 | 1.28 | 1.27 | 2.23 | 2.23 | 2.21 | 4.27 | 4.25 |
| 34 | | 20.50 | 96.66 | 0.30 | 0.30 | 0.74 | 0.73 | 0.72 | 1.62 | 1.79 | 1.78 | 3.17 | 3.05 | 3.03 | 5.66 | 5.65 |
| 35 | | 21.00 | 96.91 | 0.24 | 0.24 | 0.59 | 0.57 | 0.56 | 1.18 | 1.37 | 1.37 | 2.45 | 2.30 | 2.28 | 4.16 | 4.16 |
| 36 | | 21.50 | 96.66 | 0.28 | 0.29 | 0.52 | 0.56 | 0.56 | 1.17 | 1.07 | 1.07 | 1.45 | 1.55 | 1.54 | 2.30 | 2.28 |
| 37 | | 22.00 | 96.71 | 0.20 | 0.21 | 0.55 | 0.55 | 0.55 | 1.42 | 1.52 | 1.52 | 2.86 | 2.80 | 2.78 | 5.74 | 5.72 |
| 38 | | 22.50 | 96.66 | 0.55 | 0.56 | 1.08 | 1.07 | 1.05 | 1.81 | 2.01 | 2.00 | 2.98 | 2.87 | 2.85 | 4.19 | 4.19 |
| 39 | | 23.00 | 96.56 | 0.54 | 0.55 | 1.14 | 1.09 | 1.07 | 1.77 | 2.12 | 2.12 | 3.38 | 3.11 | 3.10 | 4.71 | 4.72 |
| 40 | | 23.50 | 96.76 | 0.85 | 0.88 | 1.28 | 1.31 | 1.29 | 1.81 | 1.87 | 1.87 | 2.25 | 2.25 | 2.24 | 2.60 | 2.59 |
| 41 | * | 24.00 | 96.71 | 0.99 | 1.10 | 1.25 | 1.43 | 1.47 | 2.36 | 1.90 | 1.92 | 1.89 | 2.17 | 2.15 | 2.34 | 2.27 |
| 42 | | 24.50 | 96.71 | 0.40 | 0.42 | 0.65 | 0.74 | 0.73 | 1.57 | 1.29 | 1.29 | 1.56 | 1.77 | 1.75 | 2.44 | 2.41 |
| 43 | * | 25.00 | 96.76 | 0.22 | 0.18 | 0.35 | 0.46 | 0.35 | 1.65 | 0.95 | * 0.70 | * 1.04 | 1.44 | * 1.03 | 2.28 | 1.59 |
| 44 | | 25.50 | 96.76 | 0.72 | 0.76 | 0.70 | 0.83 | 0.82 | 1.13 | 0.85 | * 0.84 | * 0.68 | 0.81 | 0.80 | 0.70 | 0.69 |
| 45 | | 26.00 | 96.81 | 1.34 | 1.37 | 1.19 | 1.10 | 1.08 | 0.59 | 0.77 | 0.76 | 0.65 | 0.57 | 0.57 | 0.35 | 0.36 |
| 46 | | 27.00 | 97.06 | 0.50 | 0.50 | 0.81 | 0.61 | 0.59 | 0.33 | 0.67 | 0.67 | 0.98 | 0.68 | 0.68 | 0.62 | 0.63 |
| 47 | | 28.00 | 96.71 | 0.46 | 0.47 | 0.76 | 0.66 | 0.64 | 0.58 | 0.87 | 0.87 | 1.21 | 0.99 | 0.99 | 1.06 | 1.07 |
| 48 | * | 29.00 | 97.51 | | | 0.48 | | 0.37 | 0.10 | 0.18 | 0.18 | 0.15 | 0.11 | 0.11 | 0.05 | 0.05 |
| 49 | | 31.00 | 98.95 | | | | | | | | | | | | | |
| 50 | | 33.00 | 97.51 | | | | | | 0.21 | 0.22 | 0.22 | 0.23 | 0.23 | 0.23 | 0.22 | 0.22 |
| 51 | | 34.00 | 97.16 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.06 | 0.07 | 0.07 | 0.22 | 0.21 | 0.20 | 0.82 | 0.75 |
| 52 | | 35.00 | 97.16 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.07 | 0.08 | 0.09 | 0.48 | 0.44 | 0.42 | 3.63 | 3.18 |
| 53 | | 36.00 | 97.31 | | | 0.00 | 0.01 | 0.01 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 54 | | 38.00 | 97.51 | | | | | | 0.00 | 0.01 | 0.01 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 |
| 55 | | 40.00 | 98.01 | | | | | | | | | | | | 0.01 | 0.01 |
| 56 | | 50.00 | 98.81 | | | | | | | | | | | | | |
| 57 | | 54.70 | ***** | | | | | | | | | | | | | |
| 58 | | 55.10 | ***** | | | | | | | | | | | | | |
| Total | | | | | | 2 * | 0 * | | 8 * | 8 * | | 3 * | 0 * | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 4. Summary of Calibration Details, Lake Creek Study Site 4.

| Trans No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| DISCHARGE | | | | | | | | | | | |
| Meas. | 4 | 5 | 6 | 4 | 6 | 8 | 6 | 5 | 7 | 6 | 7 |
| | 17 | 19 | 16 | 12 | 22 | 17 | 17 | 16 | 22 | 15 | 16 |
| | 34 | 33 | 39 | 33 | 33 | 32 | 30 | 38 | 28 | 35 | 32 |
| Calc. | 6 | 5 | 6 | 5 | 5 | 7 | 6 | 5.6 | 7 | 7 | 7 |
| | 20 | 16 | 18 | 13 | 17 | 18 | 14 | 16 | 24 | 17 | 15 |
| | 37 | 27 | 39 | 34 | 30 | 34 | 32 | 38 | 39 | 36 | 32 |
| Given | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 |
| Stage (given) | | | | | | | | | | | |
| | 93.77 | 95.49 | 98.24 | 98.34 | 98.33 | 95.24 | 97.02 | 97.59 | 97.66 | 97.63 | 97.48 |
| | 94.27 | 95.99 | 98.62 | 98.73 | 98.76 | 95.73 | 97.33 | 97.97 | 98.12 | 98.11 | 97.76 |
| | 94.64 | 96.37 | 98.93 | 99.10 | 99.11 | 96.20 | 97.59 | 98.30 | 98.53 | 98.53 | 98.01 |
| Plotting Stage (given) | | | | | | | | | | | |
| | 1.33 | 1.52 | 1.31 | 1.54 | 1.38 | 0.57 | 1.33 | 1.44 | 2.84 | 2.09 | 0.92 |
| | 1.83 | 2.02 | 1.69 | 1.93 | 1.81 | 1.06 | 1.64 | 1.82 | 3.30 | 2.57 | 1.20 |
| | 2.20 | 2.40 | 2.00 | 2.30 | 2.16 | 1.53 | 1.90 | 2.15 | 3.71 | 2.99 | 1.45 |
| Ratio of Modeled vs Predicted Discharge (given) | | | | | | | | | | | |
| Based on Stage-Discharge Relationship | | | | | | | | | | | |
| | 1.0118 | 1.0315 | 0.9984 | 0.9683 | 0.9999 | 1.0002 | 0.9915 | 0.9798 | 0.9799 | 0.9851 | 0.9899 |
| | 0.9685 | 0.8865 | 1.0041 | 1.0764 | 1.0000 | 0.9995 | 1.0208 | 1.0504 | 1.0478 | 1.0358 | 1.0248 |
| | 1.0205 | 1.0936 | 0.9975 | 0.9683 | 0.9999 | 1.0003 | 0.9880 | 0.9717 | 0.9740 | 0.9800 | 0.9858 |
| Mean Error of Stage/Discharge Relationship | | | | | | | | | | | |
| | 2.1387 | 3.5758 | 0.2718 | 4.8687 | 0.0112 | 0.0316 | 1.3695 | 3.2565 | 3.0963 | 2.3375 | 1.6263 |
| Stage/Discharge Relationship (S vs Q) $S=A*Q^{**}B+SZF$ | | | | | | | | | | | |
| A= | 0.7879 | 1.02356 | 0.8428 | 1.0049 | 0.8652 | 0.2018 | 0.9163 | 0.9423 | 2.1482 | 1.4338 | 0.5718 |
| B= | 0.2941 | 0.22458 | 0.2459 | 0.2340 | 0.2605 | 0.5794 | 0.2070 | 0.2340 | 0.1541 | 0.2086 | 0.2639 |
| SZF= | 92.44 | 93.97 | 96.9300 | 96.80 | 96.95 | 94.67 | 95.69 | 96.15 | 94.82 | 95.54 | 96.56 |
| B Coefficient log/log Relationship (calculated) | | | | | | | | | | | |
| | 3.697 | 4.5846 | 4.407 | 4.746 | 3.935 | 1.515 | 4.894 | 4.732 | 6.762 | 4.438 | 3.415 |

DRAFT

CALIBRATION REPORT
LAKE CREEK INSTREAM FLOW STUDY
STUDY SITE 4
TRANSECTS 1 – 11
1 VELOCITY SET CALIBRATION
HI FLOW MODEL

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for

Energy Northwest

May 3, 2007

| Table 1a. Velocity Adjustment Factors for High Flow Calibration, Lake Creek Study Site 4. | | | | | | | | | | | | |
|--|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|
| | Trans 1 | | Trans 2 | | Trans 3 | | Trans 4 | | Trans 5 | | Trans 6 | |
| Flow (cfs) | Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev |
| 34 | 0.9977 | 1.0678 | 0.4619 | 1.1435 | 0.7875 | 0.8468 | 1.0136 | 1.0140 | 1.1304 | 1.1405 | 1.1147 | 2.1404 |
| 40 | 1.0491 | 1.1299 | 0.4247 | 1.1252 | 0.8405 | 0.9054 | 1.1004 | 1.1003 | 1.1797 | 1.1920 | 1.2139 | 2.3060 |
| 45 | 1.0889 | 1.1779 | 0.3959 | 1.1055 | 0.8814 | 0.9487 | 1.1683 | 1.1679 | 1.2137 | 1.2274 | 1.2914 | 2.4350 |
| 50 | 1.1260 | 1.2226 | 0.3689 | 1.0836 | 0.9198 | 0.9879 | 1.2325 | 1.2317 | 1.2413 | 1.2563 | 1.3650 | 2.5574 |
| 55 | 1.1612 | 1.2650 | 0.3437 | 1.0594 | 0.9559 | 1.0238 | 1.2937 | 1.2926 | 1.2660 | 1.2821 | 1.4354 | 2.6743 |
| 60 | 1.1948 | 1.3054 | 0.3217 | 1.0353 | 0.9895 | 1.0559 | 1.3524 | 1.3509 | 1.2881 | 1.3051 | 1.5029 | 2.7863 |
| 65 | 1.2271 | 1.3441 | 0.3027 | 1.0119 | 1.0217 | 1.0856 | 1.4089 | 1.4070 | 1.3086 | 1.3265 | 1.5679 | 2.8941 |
| 70 | 1.2582 | 1.3814 | 0.2862 | 0.9892 | 1.0525 | 1.1133 | 1.4633 | 1.4610 | 1.3281 | 1.3468 | 1.6307 | 2.9981 |
| 75 | 1.2884 | 1.4174 | 0.2719 | 0.9676 | 1.0821 | 1.1392 | 1.5159 | 1.5132 | 1.3465 | 1.3660 | 1.6916 | 3.0988 |
| 80 | 1.3176 | 1.4522 | 0.2592 | 0.9470 | 1.1106 | 1.1634 | 1.5668 | 1.5637 | 1.3634 | 1.3839 | 1.7506 | 3.1965 |
| 90 | 1.3735 | 1.5189 | 0.2379 | 0.9087 | 1.1649 | 1.2080 | 1.6642 | 1.6603 | 1.3937 | 1.4162 | 1.8640 | 3.3839 |
| 100 | 1.4267 | 1.5820 | 0.2207 | 0.8741 | 1.2160 | 1.2481 | 1.7565 | 1.7518 | 1.4220 | 1.4464 | 1.9720 | 3.5621 |
| 120 | 1.5260 | 1.6996 | 0.1940 | 0.8121 | 1.3107 | 1.3180 | 1.9253 | 1.9191 | 1.4726 | 1.5015 | 2.1745 | 3.8958 |
| 140 | 1.6178 | 1.8081 | 0.1746 | 0.7603 | 1.3973 | 1.3777 | 2.0812 | 2.0735 | 1.5111 | 1.5472 | 2.3621 | 4.2047 |
| 160 | 1.7031 | 1.9087 | 0.1580 | 0.7107 | 1.4778 | 1.4299 | 2.2266 | 2.2175 | 1.5449 | 1.5885 | 2.5369 | 4.4930 |
| 180 | 1.7828 | 2.0023 | 0.1449 | 0.6682 | 1.5532 | 1.4763 | 2.3636 | 2.3531 | 1.5765 | 1.6273 | 2.7010 | 4.7646 |
| 200 | 1.8587 | 2.0914 | 0.1328 | 0.6260 | 1.6244 | 1.5179 | 2.4935 | 2.4817 | 1.6066 | 1.6643 | 2.8559 | 5.0223 |
| 220 | 1.9313 | 2.1764 | 0.1231 | 0.5909 | 1.6920 | 1.5558 | 2.6166 | 2.6035 | 1.6357 | 1.6998 | 3.0028 | 5.2677 |
| 240 | 2.0010 | 2.2580 | 0.1153 | 0.5618 | 1.7564 | 1.5906 | 2.7347 | 2.7204 | 1.6639 | 1.7340 | 3.1425 | 5.5023 |
| 260 | 2.0681 | 2.3365 | 0.1089 | 0.5372 | 1.8182 | 1.6229 | 2.8482 | 2.8327 | 1.6914 | 1.7672 | 3.2739 | 5.7245 |

Table 1b. Velocity Adjustment Factors for High Flow Calibration, Lake Creek Study Site 4.

| Flow (cfs) | Trans 7 | | Trans 8 | | Trans 9 | | Trans 10 | | Trans 11 | |
|------------|---------|--------|---------|--------|---------|--------|----------|--------|----------|--------|
| | Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev |
| 34 | 0.8315 | 0.9289 | 0.9177 | 0.9115 | 1.2703 | 0.7485 | 0.9498 | 1.0204 | 1.0241 | 1.0585 |
| 40 | 0.8227 | 0.9277 | 0.9996 | 0.9919 | 1.4317 | 0.8156 | 1.0481 | 1.1248 | 1.0909 | 1.1214 |
| 45 | 0.8154 | 0.9180 | 1.0638 | 1.0549 | 1.5603 | 0.8659 | 1.1255 | 1.2069 | 1.1428 | 1.1702 |
| 50 | 0.8102 | 0.9057 | 1.1251 | 1.1149 | 1.6842 | 0.9121 | 1.1995 | 1.2854 | 1.1919 | 1.2162 |
| 55 | 0.8069 | 0.8937 | 1.1838 | 1.1721 | 1.8041 | 0.9544 | 1.2706 | 1.3608 | 1.2386 | 1.2598 |
| 60 | 0.8051 | 0.8825 | 1.2401 | 1.2271 | 1.9204 | 0.9936 | 1.3393 | 1.4335 | 1.2833 | 1.3013 |
| 65 | 0.8045 | 0.8722 | 1.2946 | 1.2800 | 2.0335 | 1.0302 | 1.4057 | 1.5038 | 1.3261 | 1.3410 |
| 70 | 0.8049 | 0.8629 | 1.3472 | 1.3311 | 2.1436 | 1.0645 | 1.4701 | 1.5719 | 1.3673 | 1.3792 |
| 75 | 0.8061 | 0.8545 | 1.3982 | 1.3806 | 2.2510 | 1.0967 | 1.5326 | 1.6380 | 1.4070 | 1.4158 |
| 80 | 0.8079 | 0.8468 | 1.4478 | 1.4287 | 2.3559 | 1.1272 | 1.5933 | 1.7022 | 1.4455 | 1.4512 |
| 90 | 0.8113 | 0.8323 | 1.5431 | 1.5208 | 2.5591 | 1.1836 | 1.7098 | 1.8252 | 1.5189 | 1.5185 |
| 100 | 0.8164 | 0.8200 | 1.6339 | 1.6083 | 2.7545 | 1.2348 | 1.8209 | 1.9424 | 1.5883 | 1.5819 |
| 120 | 0.8294 | 0.8006 | 1.8045 | 1.7724 | 3.1252 | 1.3251 | 2.0297 | 2.1625 | 1.7174 | 1.6991 |
| 140 | 0.8442 | 0.7845 | 1.9633 | 1.9246 | 3.4739 | 1.4031 | 2.2243 | 2.3674 | 1.8362 | 1.8060 |
| 160 | 0.8582 | 0.7716 | 2.1127 | 2.0674 | 3.8065 | 1.4711 | 2.4075 | 2.5601 | 1.9466 | 1.9044 |
| 180 | 0.8730 | 0.7616 | 2.2543 | 2.2024 | 4.1252 | 1.5319 | 2.5813 | 2.7427 | 2.0502 | 1.9925 |
| 200 | 0.8880 | 0.7537 | 2.3894 | 2.3310 | 4.4310 | 1.5868 | 2.7472 | 2.9170 | 2.1479 | 2.0761 |
| 220 | 0.9031 | 0.7475 | 2.5189 | 2.4539 | 4.7260 | 1.6371 | 2.9063 | 3.0839 | 2.2400 | 2.1547 |
| 240 | 0.9181 | 0.7425 | 2.6435 | 2.5705 | 5.0115 | 1.6834 | 3.0595 | 3.2446 | 2.3284 | 2.2298 |
| 260 | 0.9331 | 0.7385 | 2.7637 | 2.6831 | 5.2886 | 1.7263 | 3.2073 | 3.3996 | 2.4131 | 2.3018 |

Table 2. Changes to original data decks, Lake Creek Study Site 4, High Flow calibration deck.

| High Flow | | | | |
|-----------|---------|------|------|---------------------|
| Trans | Station | Orig | Rev | Other |
| 1 | 9.5 | | | n 0.0241 to 0.045 |
| | 10 | | | n 0.0271 to 0.05 |
| | 11 | | | n 4.6824 to 0.1 |
| | 12 | | | n 0.3023 to .1 |
| | 13.0 | 0.00 | 0.10 | |
| | 18.0 | 0.00 | 0.15 | n 0.3527 to 0.15 |
| | 26.0 | | | n 0.9025 to 0.30 |
| | 27.0 | | | n 1.7012 to 0.30 |
| | 28.0 | | | n 0.6805 to 0.30 |
| | 29.0 | | | n 0.3402 to 0.15 |
| | 30.0 | | | n 1.0643 to 0.20 |
| | 31.0 | | | n 0.4888 to 0.25 |
| | 32.0 | | | n 0.1548 to 0.12 |
| | 34.0 | | | n 0.0218 to 0.05 |
| | 34.5 | | | n 0.0203 to 0.05 |
| | 35.0 | | | n 0.0248 .05 |
| | 35.5 | | | n 0.0266 to |
| | 36.0 | | | n 0.0275 to 0.05 |
| | 36.5 | | | n 0.0431 to 0.06 |
| | 40.0 | 0.00 | 0.15 | |
| 2 | 2.0 | | | Elev 96.17 to 96.22 |
| | 2.7 | 0.00 | 0.15 | |
| | 3.4 | 0.00 | 0.15 | |
| | 5.9 | | | Elev 96.17 to 96.22 |
| | 6.4 | | | |
| | 6.4 | 0.00 | 0.15 | |
| | 7.0 | 0.00 | 0.15 | |
| | 8.0 | 0.00 | 0.15 | |
| | 9.5 | 0.00 | 0.15 | |
| | 24.6 | 0.00 | 0.15 | |
| | 25.0 | 0.00 | 0.15 | |
| | 25.5 | | | n .004 to .01 |
| | 47.0 | 0.00 | 0.15 | |
| | 48.0 | 0.00 | 0.15 | |
| 49.0 | 0.00 | 0.15 | | |

Table 2. Changes to original data decks, Lake Creek Study Site 4, High Flow calibration deck.

| High Flow | | | | |
|-----------|---------|------|------------------|---------------------------------------|
| Trans | Station | Orig | Rev | Other |
| 3 | 2.0 | | | Elev 98.26 to 98.63 |
| | 23.0 | | | n 10.9219 to 0.8 |
| | 24.0 | | | n 6.7863 to 1.7 SZF 96.93 to 98.78 |
| 4 | 21.6 | 0.00 | 0.15 | |
| | 25.0 | | | n 1.6626 to .20 |
| 5 | 4.0 | | | n .2102 to 0.15 |
| | 10.3 | | | n 0.0142 to 0.02 |
| | 20.0 | | | n 0.0159 to 0.022 |
| 6 | 8.5 | 0.00 | 0.10 | |
| | 9.0 | 0.00 | 0.15 | |
| | 10.0 | | | n 0.0759 to 0.14 |
| | 12.0 | | | n 0.6942 to 0.25 |
| | 14.0 | | | n 0.4223 to 0.19 |
| | 14.5 | | | n 0.2430 to 0.18 |
| | 15.0 | 2.66 | 2.20 | n 0.402 to 0.11 |
| | 15.5 | | | n 0.0264 to 0.10 |
| | 16.0 | | | n 0.027 to 0.11 |
| | 17.0 | | | n 0.0366 to 0.2 |
| | 16.5 | | | n 0.0409 to 0.11 |
| | 17.5 | | | n 0.0358 to 0.2 |
| | 18.0 | | | n 0.0515 to 0.1 |
| | 18.5 | | | n 0.0765 to 0.9 |
| | 19.0 | | | n 0.2333 to 0.12 |
| | 19.5 | | | n 0.4233 to 0.28 |
| | 20.0 | | | n 0.611 to 0.28 |
| | 20.5 | | | n 0.7087 to 0.28 |
| | 21.0 | | | n 0.7087 to 0.28 |
| | 21.5 | | | n 0.5834 to 0.28 |
| 22.0 | | | n 0.4671 to 0.28 | |
| 22.5 | | | n 0.9957 to 0.28 | |
| 23.0 | | | n 3.0364 to 0.28 | |
| 23.5 | | | n 1.2043 to 0.28 | |

Table 2. Changes to original data decks, Lake Creek Study Site 4, High Flow calibration deck.

| High Flow | | | | |
|-----------|---------|-------|-----------------|---------------------|
| Trans | Station | Orig | Rev | Other |
| 7 | 6.0 | 95.69 | 96.56 | Elev 97.45 to 97.64 |
| | 6.5 | | | Elev 97.61 to 97.65 |
| | 7.5 | | | Elev 97.40 to 97.65 |
| | 15.5 | | | n 0.3137 to 0.05 |
| | 17.5 | | | Elev 97.62 to 97.65 |
| | 18.0 | | | n 0.0072 to 0.1 |
| | 18.5 | | | Elev 97.60 to 97.65 |
| | 27.3 | | | Elev 97.59 to 97.64 |
| | SZF | | | |
| 8 | 17.5 | 94.82 | 96.94 | n 8.8817 to 0.45 |
| | 18.0 | | | n 1.1386 to 0.40 |
| | 22.4 | | | n 0.0438 to 0.049 |
| | 22.8 | | | n 0.0338 to 0.037 |
| | 23.2 | | | n 0.0329 to 0.036 |
| | 33.2 | | | n 0.1685 to 0.13 |
| | 33.6 | | | n 0.1408 to 0.10 |
| | | | | SZF |
| 9 | 12.0 | -0.01 | 0.01 | n 6.4423 to 1.0 |
| | 14.0 | -0.34 | 0.34 | |
| | 15.0 | -0.62 | 0.62 | |
| | 16.0 | -0.50 | 0.50 | |
| | 17.0 | -0.49 | 0.49 | |
| | 18.0 | -0.09 | 0.09 | |
| | 19.0 | -0.10 | 0.10 | |
| | 20.0 | -0.05 | 0.05 | |
| | 22.3 | | | n 0.0624 to 0.07 |
| | 22.6 | | | n 0.0589 to 0.07 |
| | 23.0 | | | n 0.0530 to 0.7 |
| 23.3 | | | n 0.0623 to 0.7 | |
| | SZF | | | ME 14% ro 1.3% |
| 10 | 21.5 | 94.82 | 96.94 | n 0.0578 to 0.067 |
| | 22.0 | | | n 0.0526 to 0.064 |
| | 22.5 | | | n 0.0637 to 0.073 |
| | 23.0 | | | n 0.056 to 0.069 |
| | 23.5 | | | n 0.0626 ro 0.075 |

Table 2. Changes to original data decks, Lake Creek Study Site 4, High Flow calibration deck.

| High Flow | | | | |
|-----------|---------|------|-----|-------------------|
| Trans | Station | Orig | Rev | Other |
| | 31.0 | | | n 4.9855 to 0.9 |
| | 32.0 | | | n 3.1779 to 0.9 |
| | 33.0 | | | n 3.8365 to .9 |
| 11 | 7.0 | | | n 0.5291 to 0.15 |
| | 8.0 | | | n 0.5853 to 0.15 |
| | 8.5 | | | n 0.3327 to 0.15 |
| | 9.0 | | | n 1.4666 to 0.33 |
| | 10.5 | | | n 0.3023 to 0.15 |
| | 16.0 | | | n 0.0242 to 0.30 |
| | 19.0 | | | n 0.0249 to 0.30 |
| | 19.5 | | | n 0.0260 to 0.30 |
| | 20.5 | | | n 0.0287 to 0.32 |
| | 22.0 | | | n 0.0311 to 0.038 |
| | 22.5 | | | n 0.0283 to 0.032 |
| | 23.0 | | | n 0.03 to 0.04 |
| | 34.0 | | | n .3037 to .15 |
| | 36.0 | | | n 2.9332 to 0.15 |

| Table 3.1 - Summary of calibration details for original and revised input decks for high flows. | | | | | | | | | | | | |
|---|-------|-------------|--------------|-------|----------|------|-------|-------|--------|-------|--------|-------|
| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | |
| Transect 1 | | | | | | | | | | | | |
| Rv | Pt | WSE (ft) | | 94.60 | | | 95.11 | | 95.36 | | 95.88 | |
| | | Disch (cfs) | | 33.50 | | | 85.00 | | 127.00 | | 260.00 | |
| | Sta | Elev | Meas | Orig | * Rev * | Orig | Rev | Orig | Rev | Orig | Rev | |
| 1 | 0.00 | 96.94 | | | | | | | | | | |
| 2 | 0.20 | 96.78 | | | | | | | | | | |
| 3 | 1.00 | 94.99 | | | | | 0.25 | 0.28 | 0.63 | 0.70 | 1.49 | 1.68 |
| 4 | 3.00 | 95.50 | | | | | | | | | 0.84 | 0.95 |
| 5 | 4.15 | 94.64 | | | | | 0.61 | 0.67 | 0.96 | 1.07 | 1.84 | 2.08 |
| 6 | 5.00 | 94.04 | 0.40 | 0.37 | 0.39 | | 0.93 | 1.03 | 1.29 | 1.44 | 2.21 | 2.50 |
| 7 | 6.00 | 94.14 | 0.14 | 0.13 | 0.14 | | 0.29 | 0.32 | 0.40 | 0.44 | 0.67 | 0.75 |
| 8 | 7.00 | 94.04 | 0.12 | 0.11 | 0.12 | | 0.24 | 0.26 | 0.32 | 0.35 | 0.53 | 0.59 |
| 9 | 8.00 | 93.94 | 0.29 | 0.28 | 0.30 | | 0.55 | 0.61 | 0.73 | 0.81 | 1.19 | 1.34 |
| 10 | 9.00 | 93.84 | 1.33 | 1.28 | 1.36 | | 2.44 | 2.69 | 3.19 | 3.56 | 5.15 | 5.81 |
| * 11 | 9.50 | 94.14 | 1.94 | 1.82 | 1.04 * | | 4.06 | 2.41 | 5.50 | 3.29 | 9.25 | 5.60 |
| * 12 | 10.00 | 94.14 | 1.73 | 1.62 | 0.94 * | | 3.62 | 2.17 | 4.91 | 2.96 | 8.24 | 5.04 |
| * 13 | 11.00 | 94.14 | 0.01 | 0.01 | 0.47 * | | 0.02 | 1.08 | 0.03 | 1.48 | 0.05 | 2.52 |
| * 14 | 12.00 | 94.34 | 0.11 | 0.10 | 0.32 * | | 0.28 | 0.93 | 0.39 | 1.31 | 0.68 | 2.32 |
| * 15 | 13.00 | 94.59 | 0.00 | 0.03 | 0.03 | | 0.60 | 0.71 | 0.91 | 1.09 | 1.71 | 2.06 |
| 16 | 14.00 | 94.71 | | | | | 0.51 | 0.40 | 0.82 | 0.65 | 1.60 | 1.29 |
| 17 | 15.00 | 94.69 | | | | | 0.52 | 0.41 | 0.83 | 0.66 | 1.62 | 1.30 |
| 18 | 16.00 | 94.81 | | | | | 0.42 | 0.33 | 0.73 | 0.58 | 1.51 | 1.21 |
| 19 | 17.00 | 94.75 | | | | | 0.47 | 0.37 | 0.78 | 0.62 | 1.56 | 1.26 |
| * 20 | 18.00 | 94.04 | 0.00 | 0.47 | * 0.36 * | | 0.98 | 0.77 | 1.31 | 1.04 | 2.17 | 1.74 |
| 21 | 19.00 | 93.74 | 0.65 | 0.63 | 0.67 | | 1.16 | 1.28 | 1.50 | 1.68 | 2.40 | 2.71 |
| 22 | 19.50 | 93.74 | 1.24 | 1.19 | 1.28 | | 2.21 | 2.44 | 2.87 | 3.20 | 4.58 | 5.17 |
| 23 | 20.00 | 93.74 | 0.68 | 0.65 | 0.70 | | 1.21 | 1.34 | 1.57 | 1.75 | 2.51 | 2.84 |
| 24 | 20.50 | 93.74 | 0.34 | 0.33 | 0.35 | | 0.61 | 0.67 | 0.79 | 0.88 | 1.26 | 1.42 |
| 25 | 21.00 | 93.64 | 0.53 | 0.51 | 0.55 | | 0.92 | 1.02 | 1.19 | 1.33 | 1.88 | 2.12 |
| 26 | 21.50 | 93.54 | 1.33 | 1.29 | 1.38 | | 2.27 | 2.51 | 2.91 | 3.24 | 4.56 | 5.15 |
| 27 | 22.00 | 93.64 | 1.18 | 1.13 | 1.21 | | 2.12 | 2.35 | 2.77 | 3.09 | 4.44 | 5.01 |
| 28 | 22.50 | 93.84 | 1.60 | 1.53 | 1.64 | | 2.93 | 3.24 | 3.84 | 4.28 | 6.19 | 7.00 |
| 29 | 23.00 | 92.44 | 1.95 | 1.91 | 2.05 | | 2.99 | 3.30 | 3.68 | 4.10 | 5.44 | 6.14 |
| 30 | 23.50 | 92.44 | 2.74 | 2.69 | 2.87 | | 4.20 | 4.63 | 5.17 | 5.76 | 7.64 | 8.63 |
| 31 | 24.00 | 92.44 | 2.52 | 2.47 | 2.64 | | 3.86 | 4.26 | 4.75 | 5.30 | 7.03 | 7.94 |
| 32 | 24.50 | 93.64 | 1.67 | 1.61 | 1.73 | | 2.91 | 3.21 | 3.75 | 4.18 | 5.93 | 6.69 |
| 33 | 25.00 | 93.44 | 0.75 | 0.73 | 0.78 | | 1.26 | 1.39 | 1.60 | 1.79 | 2.49 | 2.82 |
| * 34 | 26.00 | 92.44 | 0.14 | 0.14 | 0.44 * | | 0.21 | 0.71 | 0.26 | 0.89 | 0.39 | 1.33 |
| * 35 | 27.00 | 93.04 | 0.06 | 0.06 | 0.36 * | | 0.10 | 0.60 | 0.12 | 0.76 | 0.18 | 1.17 |
| * 36 | 28.00 | 93.04 | 0.15 | 0.15 | 0.36 * | | 0.24 | 0.60 | 0.30 | 0.76 | 0.46 | 1.17 |
| * 37 | 29.00 | 93.04 | 0.30 | 0.29 | 0.71 * | | 0.48 | 1.20 | 0.60 | 1.52 | 0.91 | 2.33 |
| * 38 | 30.00 | 93.64 | 0.07 | 0.07 | 0.38 * | | 0.12 | 0.72 | 0.16 | 0.93 | 0.25 | 1.49 |
| * 39 | 31.00 | 93.14 | 0.20 | 0.20 | 0.68 * | | 0.32 | 1.16 | 0.41 | 1.47 | 0.62 | 2.28 |
| * 40 | 32.00 | 92.74 | 0.74 | 0.72 | 1.00 * | | 1.15 | 1.64 | 1.43 | 2.06 | 2.14 | 3.12 |
| 41 | 33.00 | 92.64 | 2.24 | 2.19 | 2.35 | | 3.47 | 3.83 | 4.29 | 4.79 | 6.40 | 7.23 |
| * 42 | 34.00 | 94.14 | 2.15 | 2.02 | 0.94 * | | 4.50 | 2.17 | 6.10 | 2.96 | 10.25 | 5.04 |
| * 43 | 34.50 | 94.34 | 2.27 | 2.13 | 0.93 * | | 4.79 | 2.15 | 6.49 | 2.95 | 10.92 | 5.02 |
| * 44 | 35.00 | 93.64 | 2.71 | 2.61 | 1.38 * | | 4.88 | 2.68 | 6.35 | 3.52 | 10.19 | 5.72 |
| * 45 | 35.50 | 93.14 | 3.67 | 3.58 | 2.04 * | | 5.92 | 3.48 | 7.44 | 4.42 | 11.36 | 6.84 |
| * 46 | 36.00 | 93.24 | 3.40 | 3.31 | 1.94 * | | 5.55 | 3.36 | 7.00 | 4.29 | 10.75 | 6.67 |
| * 47 | 36.50 | 92.64 | 2.75 | 2.69 | 2.07 * | | 4.26 | 3.38 | 5.27 | 4.22 | 7.85 | 6.37 |
| 48 | 37.00 | 93.34 | 1.45 | 1.41 | 1.51 | | 2.40 | 2.65 | 3.04 | 3.39 | 4.69 | 5.30 |
| 49 | 38.00 | 93.54 | 0.43 | 0.42 | 0.45 | | 0.73 | 0.81 | 0.94 | 1.05 | 1.47 | 1.67 |
| * 50 | 40.00 | 93.64 | 0.00 | 0.39 | * 0.15 | | 0.70 | 0.29 | 0.91 | 0.38 | 1.43 | 0.60 |
| 51 | 42.00 | 94.14 | -0.15 | -0.14 | ***** | | -0.31 | -0.35 | -0.43 | -0.47 | -0.71 | -0.81 |
| 52 | 42.65 | 94.64 | | | | | -0.19 | -0.21 | -0.30 | -0.33 | -0.57 | -0.64 |
| 53 | 43.00 | 95.42 | | | | | | | | | -0.29 | -0.33 |
| 54 | 48.20 | 96.42 | | | | | | | | | | |
| 55 | 49.00 | 97.18 | | | | | | | | | | |
| 56 | 51.50 | 98.43 | | | | | | | | | | |
| 57 | 51.58 | 98.56 | | | | | | | | | | |
| Total | | | | | 2 * | 18 * | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.2 - Summary of calibration details for original and revised input decks for high flows.

| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | |
|---|----------|-------------|-------|-------------|-------|--------|-------|-------|--------|--------|--------|--------|
| Transect 2 | | | | | | | | | | | | |
| Rv Pt | WSE (ft) | Disch (cfs) | Elev | 96.17 | | | 97.04 | | 97.62 | | 99.14 | |
| | | | | 33.50 | 33.50 | 33.50 | 85.00 | 85.00 | 127.00 | 127.00 | 260.00 | 260.00 |
| | | | | Meas | Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev |
| | 1 | 0.00 | 98.72 | | | | | | | | 1.13 | 0.10 |
| | 2 | 0.90 | 98.51 | | | | | | | | 1.49 | 0.13 |
| | 3 | 1.20 | 96.52 | | | | 2.98 | 0.20 | 3.70 | 0.28 | 3.87 | 0.34 |
| * | 4 | 2.00 | 96.17 | | | 0.07 | 4.20 | 0.27 | 4.46 | 0.33 | 4.20 | 0.37 |
| * | 5 | 2.70 | 95.87 | 0.00 | 3.88 | * 0.17 | 5.13 | 0.35 | 5.05 | 0.39 | 4.48 | 0.40 |
| * | 6 | 3.40 | 95.97 | 0.00 | 2.96 | * 0.17 | 4.83 | 0.43 | 4.86 | 0.49 | 4.39 | 0.51 |
| | 7 | 3.70 | 96.37 | | | | 3.53 | 0.12 | 4.03 | 0.16 | 4.01 | 0.18 |
| | 8 | 5.00 | 96.22 | | | | 4.04 | 0.14 | 4.35 | 0.17 | 4.16 | 0.19 |
| * | 9 | 5.90 | 96.17 | | | 0.07 | 4.20 | 0.14 | 4.46 | 0.17 | 4.20 | 0.19 |
| * | 10 | 6.40 | 95.17 | 0.00 | 8.67 | * 0.19 | 7.02 | 0.24 | 6.33 | 0.25 | 5.11 | 0.23 |
| * | 11 | 7.00 | 95.27 | 0.00 | 8.08 | * 0.19 | 6.77 | 0.25 | 6.16 | 0.26 | 5.02 | 0.24 |
| * | 12 | 8.00 | 95.37 | 0.00 | 7.47 | * 0.18 | 6.51 | 0.24 | 5.98 | 0.25 | 4.93 | 0.24 |
| * | 13 | 9.00 | 95.47 | 0.00 | 6.83 | * 0.19 | 6.25 | 0.27 | 5.80 | 0.29 | 4.85 | 0.28 |
| * | 14 | 9.50 | 95.67 | 0.00 | 2.96 | * 0.20 | 4.83 | 0.48 | 4.86 | 0.55 | 4.39 | 0.58 |
| | 15 | 9.60 | 96.20 | | | | 4.11 | 2.71 | 4.39 | 3.29 | 4.18 | 3.63 |
| | 16 | 11.00 | 97.96 | | | | | | | | 2.26 | 1.97 |
| | 17 | 12.00 | 98.43 | | | | | | | | 1.61 | 1.40 |
| | 18 | 14.00 | 97.29 | | | | | | 1.65 | 1.24 | 3.06 | 2.66 |
| | 19 | 14.70 | 96.29 | | | | 3.81 | 2.51 | 4.20 | 3.15 | 4.09 | 3.56 |
| | 20 | 16.80 | 97.86 | | | | | | | | 2.39 | 2.08 |
| | 21 | 18.00 | 96.68 | | | | 2.33 | 1.53 | 3.33 | 2.49 | 3.71 | 3.22 |
| | 22 | 18.80 | 98.30 | | | | | | | | 1.80 | 1.57 |
| | 23 | 23.00 | 96.48 | | | | 3.13 | 2.06 | 3.79 | 2.84 | 3.90 | 3.39 |
| | 24 | 24.50 | 96.31 | | | | 3.74 | 2.46 | 4.16 | 3.12 | 4.07 | 3.54 |
| * | 25 | 24.60 | 96.16 | 0.00 | 0.42 | * 0.18 | 4.24 | 2.79 | 4.48 | 3.35 | 4.21 | 3.66 |
| * | 26 | 25.00 | 96.16 | 0.00 | 0.42 | * 0.18 | 4.24 | 2.79 | 4.48 | 3.35 | 4.21 | 3.66 |
| * | 27 | 25.50 | 96.13 | 4.32 | 1.02 | * 1.00 | 4.33 | 6.48 | 4.54 | 7.71 | 4.24 | 8.37 |
| | 28 | 25.80 | 95.97 | 1.98 | 0.92 | * 2.27 | 1.51 | 5.65 | 1.52 | 6.45 | 1.37 | 6.77 |
| | 29 | 26.50 | 95.92 | 1.76 | 0.82 | * 2.02 | 1.19 | 4.46 | 1.19 | 5.04 | 1.06 | 5.24 |
| | 30 | 27.00 | 95.22 | 0.47 | 0.22 | * 0.54 | 0.18 | 0.67 | 0.16 | 0.69 | 0.13 | 0.65 |
| | 31 | 27.50 | 95.17 | 2.16 | 1.01 | * 2.47 | 0.81 | 3.05 | 0.73 | 3.12 | 0.59 | 2.92 |
| | 32 | 28.00 | 95.17 | 5.87 | 2.73 | * 6.72 | 2.21 | 8.28 | 2.00 | 8.48 | 1.61 | 7.94 |
| | 33 | 28.50 | 95.37 | 5.48 | 2.55 | * 6.28 | 2.22 | 8.32 | 2.04 | 8.69 | 1.69 | 8.32 |
| | 34 | 29.00 | 95.17 | 1.66 | 0.77 | * 1.90 | 0.63 | 2.34 | 0.56 | 2.40 | 0.46 | 2.25 |
| | 35 | 29.50 | 94.97 | 3.18 | 1.48 | * 3.64 | 1.14 | 4.25 | 1.01 | 4.29 | 0.80 | 3.94 |
| | 36 | 30.00 | 94.87 | 2.25 | 1.05 | * 2.57 | 0.78 | 2.93 | 0.69 | 2.94 | 0.54 | 2.68 |
| | 37 | 30.50 | 94.92 | 0.73 | 0.34 | * 0.83 | 0.26 | 0.96 | 0.23 | 0.96 | 0.18 | 0.88 |
| | 38 | 31.00 | 94.77 | 0.63 | 0.29 | * 0.72 | 0.22 | 0.81 | 0.19 | 0.80 | 0.15 | 0.73 |
| | 39 | 31.50 | 94.57 | 1.26 | 0.58 | * 1.44 | 0.42 | 1.56 | 0.36 | 1.53 | 0.28 | 1.36 |
| | 40 | 32.00 | 94.47 | 2.38 | 1.11 | * 2.72 | 0.78 | 2.91 | 0.67 | 2.85 | 0.51 | 2.52 |
| | 41 | 32.50 | 94.47 | 1.61 | 0.75 | * 1.84 | 0.53 | 1.97 | 0.45 | 1.93 | 0.34 | 1.70 |
| | 42 | 33.00 | 94.47 | 2.10 | 0.98 | * 2.40 | 0.69 | 2.57 | 0.59 | 2.52 | 0.45 | 2.22 |
| | 43 | 33.50 | 94.47 | 1.40 | 0.65 | * 1.60 | 0.46 | 1.71 | 0.39 | 1.67 | 0.30 | 1.47 |
| | 44 | 34.00 | 94.87 | 0.35 | 0.19 | 0.46 | 0.14 | 0.52 | 0.12 | 0.52 | 0.10 | 0.48 |
| | 45 | 34.50 | 94.37 | 0.33 | 0.15 | 0.38 | 0.11 | 0.40 | 0.09 | 0.39 | 0.07 | 0.34 |
| | 46 | 35.00 | 94.07 | 0.57 | 0.27 | * 0.65 | 0.18 | 0.67 | 0.15 | 0.64 | 0.11 | 0.55 |
| | 47 | 35.50 | 93.97 | 0.32 | 0.15 | 0.37 | 0.10 | 0.37 | 0.08 | 0.36 | 0.06 | 0.30 |
| | 48 | 36.00 | 93.97 | 0.92 | 0.43 | * 1.05 | 0.29 | 1.07 | 0.24 | 1.02 | 0.18 | 0.88 |
| | 49 | 36.50 | 93.97 | 1.64 | 0.76 | * 1.88 | 0.51 | 1.90 | 0.43 | 1.83 | 0.32 | 1.56 |
| | 50 | 37.00 | 94.37 | 0.47 | 0.22 | * 0.54 | 0.15 | 0.57 | 0.13 | 0.55 | 0.10 | 0.49 |
| | 51 | 37.50 | 94.27 | 0.41 | 0.19 | * 0.47 | 0.13 | 0.49 | 0.11 | 0.48 | 0.08 | 0.41 |
| | 52 | 38.00 | 94.87 | 0.68 | 0.32 | * 0.78 | 0.24 | 0.89 | 0.21 | 0.89 | 0.16 | 0.81 |
| | 53 | 38.50 | 94.87 | 1.06 | 0.49 | * 1.21 | 0.37 | 1.39 | 0.33 | 1.39 | 0.26 | 1.26 |
| | 54 | 39.00 | 94.87 | 1.90 | 0.65 | * 1.60 | 0.49 | 1.83 | 0.43 | 1.83 | 0.34 | 1.67 |
| | 55 | 39.50 | 95.07 | 0.56 | 0.26 | * 0.64 | 0.21 | 0.77 | 0.18 | 0.78 | 0.15 | 0.72 |
| * | 56 | 40.00 | 95.97 | | | 0.08 | 0.14 | 0.23 | 0.14 | 0.39 | 0.12 | 0.51 |
| | 57 | 40.50 | 96.73 | | | | 0.06 | 0.22 | 0.09 | 0.39 | 0.10 | 0.51 |
| | 58 | 41.00 | 96.98 | | | | 0.02 | 0.07 | 0.07 | 0.31 | 0.10 | 0.47 |
| | 59 | 41.50 | 97.32 | | | | | | 0.04 | 0.19 | 0.09 | 0.42 |
| | 60 | 42.00 | 97.44 | | | | | | 0.03 | 0.13 | 0.08 | 0.40 |
| | 61 | 42.50 | 97.36 | | | | | | 0.04 | 0.17 | 0.08 | 0.42 |
| | 62 | 43.00 | 95.17 | 0.19 | 0.09 | 0.22 | 0.07 | 0.27 | 0.06 | 0.27 | 0.05 | 0.26 |
| | 63 | 43.50 | 95.17 | 1.68 | 0.78 | * 1.92 | 0.63 | 2.37 | 0.57 | 2.43 | 0.46 | 2.27 |
| | 64 | 44.00 | 95.77 | 1.77 | 0.82 | * 2.03 | 0.95 | 3.56 | 0.92 | 3.91 | 0.80 | 3.96 |
| | 65 | 45.00 | 95.87 | 1.18 | 0.55 | * 1.35 | 0.73 | 2.72 | 0.72 | 3.05 | 0.64 | 3.14 |
| | 66 | 46.00 | 95.77 | 0.26 | 0.12 | 0.30 | 0.20 | 0.74 | 0.20 | 0.85 | 0.18 | 0.89 |
| * | 67 | 47.00 | 95.57 | 0.00 | 0.25 | * 0.17 | 0.25 | 0.25 | 0.23 | 0.27 | 0.20 | 0.27 |
| * | 68 | 48.00 | 95.57 | 0.00 | 0.25 | * 0.17 | 0.25 | 0.25 | 0.23 | 0.27 | 0.20 | 0.27 |
| * | 69 | 49.00 | 95.77 | 0.00 | 0.19 | 0.17 | 0.22 | 0.30 | 0.22 | 0.33 | 0.19 | 0.34 |
| | 70 | 49.50 | 96.17 | | 0.00 | 0.00 | 0.17 | 0.23 | 0.18 | 0.28 | 0.17 | 0.31 |
| | 71 | 50.50 | 98.48 | | | | | | | | 0.06 | 0.11 |
| | 72 | 50.62 | 98.66 | | | | | | | | 0.05 | 0.09 |

Total 40 * 1 *

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3-3 - Summary of calibration details for original and revised input decks for high flows.

| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | |
|---|----|-------|--------|-------------|------|---------|------|--------|------|--------|------|-------|
| Transect 3 | | | | | | | | | | | | |
| WSE (ft) | | | | 98.80 | | 99.45 | | 99.93 | | 101.35 | | |
| Disch (cfs) | | | | 33.50 | | 85.00 | | 127.00 | | 260.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * Rev * | Orig | Rev | Orig | Rev | Orig | Rev |
| | 1 | 0.00 | 100.30 | | | | | | | | 0.32 | 0.21 |
| | 2 | 0.90 | 98.93 | | | | 0.21 | 0.18 | 0.33 | 0.27 | 0.55 | 0.50 |
| * | 3 | 2.00 | 98.13 | 0.00 | 0.16 | 0.08 | 0.36 | 0.23 | 0.47 | 0.32 | 0.65 | 0.55 |
| | 4 | 3.00 | 98.97 | | | | 0.20 | 0.17 | 0.32 | 0.27 | 0.55 | 0.49 |
| | 5 | 4.00 | 98.53 | 0.11 | 0.10 | 0.09 | 0.31 | 0.25 | 0.42 | 0.34 | 0.61 | 0.57 |
| | 6 | 5.00 | 98.83 | 0.00 | | 0.13 | 0.93 | 0.69 | 1.41 | 1.02 | 2.26 | 1.83 |
| | 7 | 6.00 | 98.53 | 0.32 | 0.30 | 0.27 | 1.12 | 0.81 | 1.57 | 1.15 | 2.38 | 1.96 |
| | 8 | 7.00 | 99.24 | | | | 0.60 | 0.69 | 1.37 | 1.30 | 2.68 | 2.72 |
| | 9 | 8.00 | 98.95 | | | | 1.07 | 1.06 | 1.74 | 1.64 | 2.92 | 3.05 |
| | 10 | 9.00 | 98.13 | 1.07 | 0.99 | 0.90 | 2.07 | 1.87 | 2.61 | 2.47 | 3.55 | 3.89 |
| | 11 | 9.50 | 98.03 | 2.34 | 2.16 | 1.97 | 4.33 | 3.96 | 5.39 | 5.17 | 7.23 | 8.07 |
| | 12 | 10.00 | 97.83 | 3.36 | 3.10 | 2.83 | 5.82 | 5.40 | 7.09 | 6.94 | 9.25 | 10.61 |
| | 13 | 10.50 | 97.63 | 3.55 | 3.28 | 2.99 | 5.86 | 5.49 | 7.02 | 6.97 | 8.94 | 10.47 |
| | 14 | 11.00 | 97.53 | 1.07 | 0.99 | 0.90 | 1.73 | 1.63 | 2.06 | 2.06 | 2.60 | 3.07 |
| | 15 | 11.50 | 97.73 | 1.32 | 1.22 | 1.11 | 2.23 | 2.08 | 2.69 | 2.65 | 3.47 | 4.02 |
| | 16 | 12.00 | 97.33 | 0.42 | 0.39 | 0.35 | 0.66 | 0.62 | 0.77 | 0.78 | 0.96 | 1.15 |
| | 17 | 12.50 | 97.33 | 0.31 | 0.29 | 0.26 | 0.49 | 0.46 | 0.57 | 0.58 | 0.71 | 0.85 |
| | 18 | 13.00 | 97.13 | 0.64 | 0.59 | 0.54 | 0.98 | 0.93 | 1.14 | 1.15 | 1.38 | 1.67 |
| | 19 | 13.50 | 96.93 | 1.46 | 1.35 | 1.23 | 2.19 | 2.08 | 2.52 | 2.57 | 3.01 | 3.69 |
| | 20 | 14.00 | 97.13 | 1.78 | 1.64 | 1.50 | 2.72 | 2.58 | 3.16 | 3.21 | 3.84 | 4.66 |
| | 21 | 14.50 | 96.93 | 2.49 | 2.30 | 2.10 | 3.73 | 3.55 | 4.30 | 4.38 | 5.14 | 6.29 |
| | 22 | 15.00 | 97.33 | 3.03 | 2.80 | 2.55 | 4.76 | 4.49 | 5.58 | 5.62 | 6.90 | 8.26 |
| | 23 | 15.50 | 97.33 | 3.21 | 2.96 | 2.70 | 5.04 | 4.75 | 5.91 | 5.95 | 7.31 | 8.75 |
| | 24 | 16.00 | 96.93 | 2.07 | 1.91 | 1.74 | 3.10 | 2.95 | 3.57 | 3.64 | 4.27 | 5.23 |
| | 25 | 16.50 | 97.03 | 1.94 | 1.79 | 1.63 | 2.94 | 2.79 | 3.40 | 3.45 | 4.09 | 4.98 |
| | 26 | 17.00 | 97.13 | 2.34 | 2.16 | 1.97 | 3.58 | 3.39 | 4.16 | 4.22 | 5.05 | 6.12 |
| | 27 | 17.50 | 97.03 | 1.89 | 1.74 | 1.59 | 2.86 | 2.72 | 3.31 | 3.36 | 3.99 | 4.86 |
| | 28 | 18.00 | 97.13 | 1.29 | 1.19 | 1.09 | 1.97 | 1.87 | 2.29 | 2.32 | 2.79 | 3.37 |
| | 29 | 18.50 | 97.33 | 1.79 | 1.65 | 1.51 | 2.81 | 2.65 | 3.30 | 3.32 | 4.08 | 4.88 |
| | 30 | 19.00 | 97.33 | 2.51 | 2.32 | 2.11 | 3.94 | 3.72 | 4.63 | 4.66 | 5.71 | 6.84 |
| | 31 | 19.50 | 97.03 | 1.46 | 1.35 | 1.23 | 2.21 | 2.10 | 2.56 | 2.60 | 3.08 | 3.75 |
| | 32 | 20.00 | 97.03 | 1.08 | 1.00 | 0.91 | 1.64 | 1.55 | 1.89 | 1.92 | 2.28 | 2.77 |
| | 33 | 20.50 | 97.03 | 1.19 | 1.10 | 1.00 | 1.80 | 1.71 | 2.08 | 2.12 | 2.51 | 3.06 |
| | 34 | 21.00 | 97.23 | 1.57 | 1.45 | 1.32 | 2.43 | 2.30 | 2.84 | 2.87 | 3.48 | 4.19 |
| | 35 | 21.50 | 97.23 | 1.27 | 1.17 | 1.07 | 1.97 | 1.86 | 2.30 | 2.32 | 2.81 | 3.39 |
| | 36 | 22.00 | 97.03 | 1.39 | 1.28 | 1.17 | 2.11 | 2.00 | 2.43 | 2.47 | 2.93 | 3.57 |
| * | 37 | 23.00 | 97.03 | 0.01 | 0.01 | 0.12 | 0.02 | 0.21 | 0.02 | 0.25 | 0.02 | 0.37 |
| * | 38 | 24.00 | 97.93 | 0.01 | 0.01 | 0.09 | 0.02 | 0.18 | 0.02 | 0.23 | 0.03 | 0.35 |
| | 39 | 24.70 | 98.93 | | | | 0.01 | 0.09 | 0.01 | 0.14 | 0.02 | 0.26 |
| | 40 | 25.00 | 100.44 | | | | | | | | 0.01 | 0.09 |
| | 41 | 26.50 | 99.39 | | | | 0.00 | 0.04 | 0.01 | 0.09 | 0.02 | 0.22 |
| | 42 | 28.50 | 101.31 | | | | | | | | 0.00 | |
| | 43 | 30.30 | 100.82 | | | | | | | | 0.01 | |
| | 44 | 30.49 | 100.75 | | | | | | | | 0.01 | |
| Total | | | | 0 * | 0 * | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

Table 3.4 - Summary of calibration details for original and revised input decks

| Calibration details for Lake Creek Study Site 4 | | | | | | | | | | | | |
|---|-------|-------|-------|-------------|------|---------|------|--------|------|--------|------|------|
| Transect 4 | | | | | | | | | | | | |
| WSE (ft) | | | 99.09 | | | 99.65 | | 99.93 | | 100.51 | | |
| Disch (cfs) | | | 33.00 | | | 85.00 | | 127.00 | | 260.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * Rev * | Orig | Rev | Orig | Rev | Orig | Rev |
| 1 | 0.00 | ***** | | | | | | | | | | |
| 2 | 0.10 | ***** | | | | | | | | | | |
| 3 | 3.20 | ***** | | | | | | | | | 0.52 | 0.52 |
| 4 | 4.10 | 99.10 | | | | | 0.55 | 0.55 | 0.89 | 0.88 | 1.81 | 1.80 |
| 5 | 4.50 | 97.30 | | 0.75 | 0.75 | 0.75 | 1.45 | 1.45 | 1.92 | 1.91 | 3.15 | 3.13 |
| 6 | 5.00 | 97.30 | | 1.03 | 1.03 | 1.03 | 1.99 | 1.99 | 2.63 | 2.62 | 4.32 | 4.30 |
| 7 | 5.30 | 97.10 | | 0.43 | 0.43 | 0.43 | 0.82 | 0.82 | 1.08 | 1.07 | 1.75 | 1.74 |
| 8 | 5.60 | 97.10 | | 0.25 | 0.25 | 0.25 | 0.48 | 0.47 | 0.63 | 0.62 | 1.02 | 1.01 |
| 9 | 6.00 | 97.30 | | 0.88 | 0.88 | 0.88 | 1.70 | 1.70 | 2.25 | 2.24 | 3.69 | 3.67 |
| 10 | 6.30 | 97.20 | | 1.29 | 1.29 | 1.29 | 2.47 | 2.47 | 3.26 | 3.25 | 5.33 | 5.30 |
| 11 | 6.60 | 97.10 | | 1.57 | 1.57 | 1.57 | 2.99 | 2.98 | 3.93 | 3.91 | 6.39 | 6.36 |
| 12 | 7.00 | 97.10 | | 1.56 | 1.56 | 1.56 | 2.97 | 2.96 | 3.90 | 3.89 | 6.35 | 6.31 |
| 13 | 7.30 | 97.10 | | 1.76 | 1.76 | 1.76 | 3.35 | 3.34 | 4.40 | 4.39 | 7.16 | 7.12 |
| 14 | 7.60 | 96.90 | | 1.72 | 1.72 | 1.73 | 3.23 | 3.22 | 4.22 | 4.21 | 6.82 | 6.79 |
| 15 | 8.00 | 96.90 | | 1.26 | 1.26 | 1.26 | 2.36 | 2.36 | 3.09 | 3.08 | 5.00 | 4.97 |
| 16 | 8.30 | 96.90 | | 1.14 | 1.14 | 1.14 | 2.14 | 2.13 | 2.80 | 2.79 | 4.52 | 4.50 |
| 17 | 8.60 | 96.90 | | 1.22 | 1.22 | 1.22 | 2.29 | 2.28 | 3.00 | 2.99 | 4.84 | 4.81 |
| 18 | 9.00 | 96.90 | | 1.00 | 1.00 | 1.00 | 1.88 | 1.87 | 2.46 | 2.45 | 3.97 | 3.95 |
| 19 | 9.30 | 96.80 | | 1.21 | 1.21 | 1.21 | 2.26 | 2.25 | 2.95 | 2.94 | 4.75 | 4.72 |
| 20 | 9.60 | 97.60 | | 1.84 | 1.84 | 1.84 | 3.67 | 3.66 | 4.90 | 4.88 | 8.17 | 8.12 |
| 21 | 10.00 | 97.75 | | 2.10 | 2.10 | 2.10 | 4.27 | 4.26 | 5.74 | 5.72 | 9.65 | 9.60 |
| 22 | 10.50 | 97.70 | | 2.16 | 2.16 | 2.16 | 4.36 | 4.35 | 5.85 | 5.83 | 9.81 | 9.75 |
| 23 | 11.00 | 96.80 | | 1.99 | 2.00 | 2.00 | 3.71 | 3.70 | 4.85 | 4.83 | 7.80 | 7.76 |
| 24 | 11.50 | 96.90 | | 2.12 | 2.13 | 2.13 | 3.98 | 3.97 | 5.21 | 5.19 | 8.41 | 8.36 |
| 25 | 12.00 | 97.20 | | 1.97 | 1.75 | 1.75 | 3.35 | 3.35 | 4.42 | 4.41 | 7.23 | 7.19 |
| 26 | 12.50 | 97.10 | | 1.45 | 1.45 | 1.45 | 2.76 | 2.75 | 3.63 | 3.61 | 5.90 | 5.87 |
| 27 | 13.00 | 97.10 | | 1.25 | 1.25 | 1.25 | 2.38 | 2.37 | 3.13 | 3.12 | 5.09 | 5.06 |
| 28 | 13.50 | 97.40 | | 1.45 | 1.45 | 1.45 | 2.83 | 2.82 | 3.75 | 3.74 | 6.19 | 6.15 |
| 29 | 14.00 | 97.50 | | 1.77 | 1.77 | 1.77 | 3.49 | 3.48 | 4.64 | 4.63 | 7.69 | 7.65 |
| 30 | 14.50 | 97.10 | | 1.53 | 1.53 | 1.53 | 2.91 | 2.90 | 3.83 | 3.81 | 6.23 | 6.19 |
| 31 | 15.00 | 97.00 | | 1.60 | 1.60 | 1.60 | 3.02 | 3.02 | 3.96 | 3.95 | 6.43 | 6.39 |
| 32 | 15.50 | 96.90 | | 1.13 | 1.13 | 1.13 | 2.12 | 2.12 | 2.78 | 2.77 | 4.48 | 4.46 |
| 33 | 16.00 | 97.10 | | 1.02 | 1.02 | 1.02 | 1.94 | 1.94 | 2.55 | 2.54 | 4.15 | 4.13 |
| 34 | 16.50 | 97.50 | | 0.70 | 0.70 | 0.70 | 1.38 | 1.38 | 1.84 | 1.83 | 3.04 | 3.03 |
| 35 | 17.00 | 99.28 | | | | | 0.42 | 0.42 | 0.76 | 0.76 | 1.67 | 1.66 |
| 36 | 20.00 | 99.77 | | | | | | | 0.30 | 0.30 | 1.19 | 1.18 |
| 37 | 21.50 | 99.23 | | | | | 0.46 | 0.46 | 0.80 | 0.80 | 1.71 | 1.71 |
| * | 38 | 21.60 | 98.30 | 0.00 | 0.44 | * 0.15 | 1.01 | 0.34 | 1.41 | 0.48 | 2.47 | 0.84 |
| | 39 | 22.00 | 98.50 | 0.25 | 0.25 | 0.25 | 0.62 | 0.62 | 0.89 | 0.88 | 1.60 | 1.59 |
| | 40 | 23.00 | 98.60 | 0.38 | 0.38 | 0.38 | 1.01 | 1.01 | 1.45 | 1.45 | 2.65 | 2.64 |
| | 41 | 24.00 | 98.60 | 0.32 | 0.32 | 0.32 | 0.85 | 0.85 | 1.22 | 1.22 | 2.24 | 2.22 |
| * | 42 | 25.00 | 98.80 | 0.02 | 0.02 | 0.16 | 0.06 | 0.54 | 0.10 | 0.80 | 0.18 | 1.51 |
| | 43 | 25.54 | 99.10 | | | | 0.05 | 0.40 | 0.08 | 0.65 | 0.16 | 1.33 |
| | 44 | 25.55 | ***** | | | | | | | | | |
| Total | | | | 1 * 0 * | | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3.5 - Summary of calibration details for original and revised input high flow decks | | | | | | | | | | | | |
|---|----|-------------|--------|--------------|-------|-------|-------------|-------|--------|-------|--------|-------|
| Calibration details for Lake Creek Study Site 4, High Flow Deck | | | | | | | | | | | | |
| Transect 5 | | | | | | | | | | | | |
| Rv | Pt | WSE (ft) | | 99.11 | | | 99.67 | | 99.97 | | 100.57 | |
| | | Disch (cfs) | Elev | Meas | Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev |
| | | Sta | | 33.50 | * | | 83.75 | | 127.00 | | 260.00 | |
| | | | | | | | | | | | | |
| | 1 | 0.00 | 101.99 | | | | | | | | | |
| | 2 | 0.10 | 101.88 | | | | | | | | | |
| | 3 | 1.50 | 99.16 | | | | 0.31 | 0.44 | 0.46 | 0.65 | 0.75 | 1.11 |
| | 4 | 2.00 | 99.06 | 0.00 | 0.04 | 0.06 | 0.35 | 0.50 | 0.49 | 0.71 | 0.79 | 1.16 |
| | 5 | 3.00 | 99.06 | 0.00 | 0.04 | 0.06 | 0.35 | 0.50 | 0.49 | 0.71 | 0.79 | 1.16 |
| * | 6 | 4.00 | 98.86 | 0.14 | 0.15 | 0.22 | 0.43 | 0.61 | 0.56 | 0.81 | 0.86 | 1.26 |
| | 7 | 5.00 | 98.56 | 0.33 | 0.37 | 0.37 | 0.73 | 0.74 | 0.92 | 0.94 | 1.33 | 1.39 |
| | 8 | 5.50 | 98.46 | 1.24 | 1.38 | 1.39 | 2.60 | 2.64 | 3.24 | 3.31 | 4.62 | 4.82 |
| | 9 | 6.00 | 98.66 | 0.84 | 0.93 | 0.94 | 1.99 | 2.03 | 2.55 | 2.60 | 3.74 | 3.91 |
| | 10 | 6.50 | 98.56 | 0.70 | 0.78 | 0.78 | 1.55 | 1.57 | 1.95 | 1.99 | 2.82 | 2.95 |
| | 11 | 7.00 | 98.56 | 0.34 | 0.37 | 0.38 | 0.94 | 0.95 | 1.23 | 1.25 | 1.85 | 1.93 |
| | 12 | 7.05 | 99.87 | | | | | | 1.62 | 1.02 | 6.98 | 4.51 |
| | 13 | 8.00 | 99.95 | | | | | | 0.49 | 0.31 | 6.44 | 4.16 |
| | 14 | 9.90 | 99.61 | | | | 1.13 | 0.71 | 3.90 | 2.46 | 8.62 | 5.57 |
| * | 15 | 10.30 | 97.46 | 2.39 | 2.62 | 1.63 | 6.59 | 4.14 | 8.64 | 5.45 | 12.99 | 8.39 |
| | 16 | 10.50 | 97.46 | 3.26 | 3.36 | 3.39 | 5.04 | 5.11 | 5.90 | 6.03 | 7.76 | 8.11 |
| | 17 | 11.00 | 96.71 | 0.63 | 0.71 | 0.71 | 1.00 | 1.02 | 1.15 | 1.17 | 1.47 | 1.53 |
| | 18 | 11.50 | 96.76 | 1.64 | 1.79 | 1.81 | 2.55 | 2.59 | 2.93 | 2.99 | 3.74 | 3.91 |
| | 19 | 12.00 | 96.96 | 2.74 | 3.07 | 3.10 | 4.41 | 4.48 | 5.10 | 5.21 | 6.56 | 6.85 |
| | 20 | 12.50 | 96.96 | 2.75 | 3.08 | 3.11 | 4.43 | 4.50 | 5.12 | 5.23 | 6.58 | 6.88 |
| | 21 | 13.00 | 96.86 | 2.46 | 2.76 | 2.78 | 3.94 | 4.00 | 4.54 | 4.64 | 5.82 | 6.08 |
| | 22 | 13.50 | 96.96 | 2.45 | 2.47 | 2.49 | 3.54 | 3.60 | 4.10 | 4.18 | 5.27 | 5.50 |
| | 23 | 14.00 | 96.76 | 1.69 | 1.90 | 1.91 | 2.69 | 2.73 | 3.10 | 3.16 | 3.95 | 4.13 |
| | 24 | 14.50 | 97.06 | 1.21 | 1.36 | 1.37 | 1.96 | 1.99 | 2.27 | 2.32 | 2.93 | 3.07 |
| | 25 | 15.00 | 97.96 | 2.01 | 2.25 | 2.27 | 3.62 | 3.68 | 4.34 | 4.43 | 5.89 | 6.15 |
| | 26 | 15.50 | 97.96 | 1.74 | 1.94 | 1.96 | 3.13 | 3.18 | 3.76 | 3.84 | 5.10 | 5.33 |
| | 27 | 16.00 | 97.96 | 2.14 | 2.39 | 2.41 | 3.85 | 3.91 | 4.62 | 4.72 | 6.27 | 6.55 |
| | 28 | 16.50 | 98.16 | 1.74 | 1.94 | 1.96 | 3.28 | 3.33 | 3.98 | 4.06 | 5.49 | 5.74 |
| | 29 | 17.00 | 98.06 | 0.63 | 0.70 | 0.71 | 1.16 | 1.18 | 1.40 | 1.43 | 1.91 | 2.00 |
| | 30 | 17.50 | 98.06 | -0.04 | -0.04 | -0.05 | -0.07 | -0.07 | -0.09 | -0.09 | -0.12 | -0.13 |
| | 31 | 18.00 | 98.06 | 0.00 | -0.04 | -0.05 | -0.07 | -0.07 | -0.09 | -0.09 | -0.12 | -0.13 |
| | 32 | 18.50 | 98.16 | -0.10 | 0.11 | 0.11 | 0.19 | 0.19 | 0.23 | 0.23 | 0.32 | 0.33 |
| | 33 | 19.00 | 98.36 | 1.10 | 1.22 | 1.24 | 2.21 | 2.24 | 2.73 | 2.78 | 3.84 | 4.01 |
| | 34 | 19.50 | 98.66 | 2.11 | 2.33 | 2.35 | 5.01 | 5.09 | 6.41 | 6.54 | 9.40 | 9.82 |
| * | 35 | 20.00 | 98.66 | 2.75 | 3.04 | 2.21 | 6.53 | 4.78 | 8.35 | 6.15 | 12.25 | 9.23 |
| | 36 | 20.50 | 99.01 | 1.09 | 1.21 | 1.22 | 2.33 | 2.37 | 2.92 | 2.98 | 4.18 | 4.37 |
| | 37 | 21.00 | 99.65 | | | | 0.17 | 0.17 | 1.04 | 1.07 | 2.43 | 2.54 |
| | 38 | 22.00 | 99.40 | | | | 0.88 | 0.89 | 1.54 | 1.57 | 2.85 | 2.98 |
| | 39 | 23.00 | 99.01 | 0.88 | 0.91 | 0.91 | 4.31 | 4.38 | 5.94 | 6.07 | 9.38 | 9.80 |
| | 40 | 24.00 | 99.27 | | | | 3.09 | 3.13 | 4.80 | 4.90 | 8.30 | 8.67 |
| | 41 | 25.00 | 99.19 | | | | 3.48 | 3.54 | 5.17 | 5.27 | 8.64 | 9.03 |
| | 42 | 25.50 | 98.76 | 0.15 | 0.16 | 0.17 | 0.39 | 0.40 | 0.51 | 0.52 | 0.76 | 0.80 |
| | 43 | 26.00 | 98.46 | 1.62 | 1.80 | 1.82 | 3.39 | 3.45 | 4.23 | 4.32 | 6.03 | 6.30 |
| | 44 | 26.50 | 98.16 | 2.33 | 2.60 | 2.62 | 4.39 | 4.46 | 5.33 | 5.44 | 7.35 | 7.68 |
| | 45 | 27.00 | 98.16 | 1.91 | 2.13 | 2.15 | 3.60 | 3.65 | 4.37 | 4.46 | 6.03 | 6.30 |
| | 46 | 27.50 | 98.16 | 1.59 | 1.77 | 1.79 | 2.99 | 3.04 | 3.64 | 3.71 | 5.02 | 5.24 |
| | 47 | 28.00 | 98.16 | 1.32 | 1.47 | 1.49 | 2.49 | 2.52 | 3.02 | 3.08 | 4.17 | 4.35 |
| | 48 | 29.20 | 99.16 | | | | 1.20 | 1.22 | 1.76 | 1.80 | 2.91 | 3.04 |
| | 49 | 31.60 | 101.24 | | | | | | | | | |
| | 50 | 32.00 | 102.00 | | | | | | | | | |

Total 0 * 1 *

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3.6 - Summary of calibration details for original and revised input high decks | | | | | | | | | | | | | |
|--|----|-------------|-------|-------------|------|--------|---|-------|------|--------|------|--------|------|
| Calibration details for Lake Creek Study Site 4, high flow | | | | | | | | | | | | | |
| Transect 6 | | | | | | | | | | | | | |
| | | WSE (ft) | | 96.11 | | | | 96.66 | | 96.94 | | 97.49 | |
| | | Disch (cfs) | | 33.00 | | | | 82.50 | | 127.00 | | 260.00 | |
| Rv | Pt | Sta | Elev | Meas | Orig | * Rev | * | Orig | Rev | Orig | Rev | Orig | Rev |
| | 1 | 0.00 | 99.06 | | | | | | | | | | |
| | 2 | 0.20 | 97.44 | | | | | | | | | 0.19 | 0.15 |
| | 3 | 6.00 | 96.82 | | | | | | | 0.42 | 0.17 | 2.38 | 0.81 |
| | 4 | 7.00 | 98.46 | | | | | | | | | | |
| | 5 | 8.00 | 98.43 | | | | | | | | | | |
| | 6 | 8.49 | 96.20 | | | | | 0.98 | 0.35 | 1.71 | 0.59 | 3.72 | 1.24 |
| * | 7 | 8.50 | 95.80 | 0.00 | 0.47 | * 0.18 | * | 1.57 | 0.55 | 2.36 | 0.81 | 4.52 | 1.51 |
| * | 8 | 9.00 | 96.00 | 0.00 | 0.21 | * 0.21 | * | 1.31 | 1.10 | 2.06 | 1.69 | 4.15 | 3.30 |
| * | 9 | 10.00 | 95.60 | 0.70 | 0.67 | 0.72 | * | 1.82 | 1.82 | 2.64 | 2.59 | 4.88 | 4.67 |
| | 10 | 11.00 | 95.20 | 0.39 | 0.39 | 0.77 | * | 0.92 | 1.69 | 1.29 | 2.33 | 2.29 | 4.06 |
| * | 11 | 12.00 | 95.00 | 0.10 | 0.10 | 0.55 | * | 0.24 | 1.21 | 0.33 | 1.66 | 0.59 | 2.89 |
| | 12 | 13.00 | 95.40 | 0.58 | 0.58 | 1.14 | * | 1.40 | 2.59 | 1.98 | 3.60 | 3.57 | 6.33 |
| | 13 | 13.50 | 95.40 | 0.49 | 0.49 | 0.96 | * | 1.18 | 2.19 | 1.68 | 3.04 | 3.02 | 5.34 |
| * | 14 | 14.00 | 94.10 | 0.29 | 0.31 | 1.33 | * | 0.59 | 2.42 | 0.79 | 3.16 | 1.30 | 5.09 |
| * | 15 | 14.50 | 94.00 | 0.52 | 0.55 | 1.45 | * | 1.06 | 2.62 | 1.40 | 3.41 | 2.30 | 5.48 |
| * | 16 | 15.00 | 94.30 | 2.66 | 2.82 | 2.14 | * | 5.52 | 3.96 | 7.36 | 5.19 | 12.23 | 8.44 |
| * | 17 | 15.50 | 94.20 | 4.38 | 4.66 | 2.44 | * | 9.03 | 4.48 | 12.02 | 5.86 | 19.87 | 9.48 |
| * | 18 | 16.00 | 93.70 | 5.01 | 5.36 | 2.59 | * | 10.07 | 4.61 | 13.25 | 5.96 | 21.52 | 9.47 |
| * | 19 | 16.50 | 93.70 | 3.30 | 3.54 | 2.59 | * | 6.64 | 4.61 | 8.74 | 5.96 | 14.19 | 9.47 |
| * | 20 | 17.00 | 93.70 | 2.10 | 2.25 | 1.43 | * | 4.21 | 2.54 | 5.55 | 3.28 | 9.01 | 5.21 |
| * | 21 | 17.50 | 93.90 | 3.56 | 3.80 | 1.35 | * | 7.22 | 2.42 | 9.54 | 3.14 | 15.60 | 5.02 |
| * | 22 | 18.00 | 94.00 | 2.39 | 2.55 | 2.61 | * | 4.87 | 4.72 | 6.45 | 6.14 | 10.59 | 9.86 |
| * | 23 | 18.50 | 95.00 | 1.10 | 1.14 | 1.88 | * | 2.44 | 3.83 | 3.36 | 5.16 | 5.82 | 8.74 |
| * | 24 | 19.00 | 94.80 | 0.40 | 0.42 | 1.58 | * | 0.87 | 3.10 | 1.18 | 4.14 | 2.01 | 6.90 |
| * | 25 | 19.50 | 94.20 | 0.28 | 0.30 | 0.87 | * | 0.58 | 1.60 | 0.77 | 2.09 | 1.27 | 3.39 |
| * | 26 | 20.00 | 94.70 | 0.16 | 0.17 | 0.71 | * | 0.34 | 1.37 | 0.46 | 1.83 | 0.79 | 3.03 |
| * | 27 | 20.50 | 94.50 | 0.15 | 0.16 | 0.78 | * | 0.32 | 1.47 | 0.42 | 1.94 | 0.71 | 3.18 |
| * | 28 | 21.00 | 94.50 | 0.15 | 0.16 | 0.78 | * | 0.32 | 1.47 | 0.42 | 1.94 | 0.71 | 3.18 |
| * | 29 | 21.50 | 94.80 | 0.16 | 0.17 | 0.68 | * | 0.35 | 1.33 | 0.47 | 1.77 | 0.80 | 2.96 |
| * | 30 | 22.00 | 95.10 | 0.17 | 0.17 | 0.57 | * | 0.38 | 1.18 | 0.53 | 1.60 | 0.93 | 2.73 |
| * | 31 | 22.50 | 95.10 | 0.08 | 0.08 | 0.57 | * | 0.18 | 1.18 | 0.25 | 1.60 | 0.44 | 2.73 |
| * | 32 | 23.00 | 94.85 | 0.03 | 0.03 | 0.66 | * | 0.07 | 1.30 | 0.09 | 1.74 | 0.15 | 2.92 |
| * | 33 | 23.50 | 94.45 | 0.09 | 0.10 | 0.79 | * | 0.19 | 1.49 | 0.25 | 1.96 | 0.42 | 3.21 |
| * | 34 | 24.00 | 94.20 | 0.32 | 0.34 | 0.66 | * | 0.66 | 1.21 | 0.88 | 1.58 | 1.45 | 2.56 |
| * | 35 | 24.50 | 94.25 | 0.66 | 0.70 | 1.36 | * | 1.36 | 2.50 | 1.82 | 3.28 | 3.01 | 5.31 |
| * | 36 | 25.00 | 94.25 | 0.73 | 0.78 | 1.50 | * | 1.51 | 2.77 | 2.01 | 3.62 | 3.33 | 5.88 |
| * | 37 | 25.50 | 93.90 | 0.54 | 0.58 | 1.12 | * | 1.10 | 2.01 | 1.45 | 2.61 | 2.37 | 4.17 |
| * | 38 | 26.00 | 94.50 | 0.34 | 0.36 | 0.70 | * | 0.72 | 1.31 | 0.96 | 1.73 | 1.61 | 2.84 |
| * | 39 | 26.50 | 95.10 | 0.09 | 0.09 | 0.18 | * | 0.20 | 0.37 | 0.28 | 0.51 | 0.49 | 0.87 |
| * | 40 | 27.00 | 95.20 | 0.06 | 0.06 | 0.12 | * | 0.14 | 0.26 | 0.20 | 0.36 | 0.35 | 0.62 |
| | 41 | 27.30 | 96.20 | | | | | 0.06 | 0.11 | 0.10 | 0.19 | 0.23 | 0.41 |
| | 42 | 28.50 | 97.05 | | | | | | | | | 0.11 | 0.21 |
| | 43 | 29.60 | 96.67 | | | | | | | 0.05 | 0.11 | 0.18 | 0.32 |
| | 44 | 30.40 | 97.34 | | | | | | | | | 0.05 | 0.11 |
| | 45 | 31.40 | 96.36 | | | | | 0.05 | 0.09 | 0.10 | 0.18 | 0.22 | 0.40 |
| | 46 | 32.20 | 98.05 | | | | | | | | | | |
| | 47 | 32.33 | 98.38 | | | | | | | | | | |
| Total | | | | 2 * | | | | 28 * | | | | | |
| Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20% | | | | | | | | | | | | | |

Table 3.7 - Summary of calibration details for original and revised high flow input decks with adjusted bed elevation on left channel.

| Calibration details for Lake Creek Study Site 4 High Flows Transect 7 | | | | | | | | | | | | |
|--|----|------|----------------|-------------|------|----------------|------|-----------------|------|-----------------|-------|------|
| WSE (ft) Disch (cfs) | | | 97.62 33.50 | | | 98.21 83.75 | | 98.55 127.00 | | 99.33 260.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | * Rev * | Orig | Rev | Orig | Rev | Orig | Rev |
| | 1 | 0.0 | 100.14 | | | | | | | | | |
| | 2 | 0.6 | 99.67 | | | | | | | | | |
| | 3 | 0.7 | 98.56 | | | | | | | | | |
| | 4 | 4.0 | 98.19 | | | | 0.04 | | 0.31 | 1.44 | 0.52 | 2.29 |
| * | 5 | 6.0 | 97.45 | 0.06 | | | 0.47 | 2.02 | 0.60 | 2.67 | 0.67 | 2.95 |
| * | 6 | 6.5 | 97.61 | 0.02 | | | 0.46 | 1.99 | 0.60 | 2.65 | 0.89 | 3.81 |
| | 7 | 7.0 | 97.69 | | | | 0.41 | 1.89 | 0.56 | 2.57 | 0.85 | 3.74 |
| * | 8 | 7.5 | 97.40 | 0.00 | 0.13 | | 0.49 | 1.74 | 0.62 | 2.45 | 0.91 | 3.65 |
| | 9 | 8.0 | 97.25 | 1.74 | 1.86 | 1.68 | 3.86 | 2.89 | 4.71 | 3.40 | 6.57 | 4.37 |
| | 10 | 8.5 | 96.95 | 1.90 | 1.94 | 1.80 | 2.82 | 2.49 | 3.25 | 2.79 | 4.28 | 3.42 |
| | 11 | 9.0 | 96.95 | 1.72 | 1.74 | 1.63 | 2.21 | 2.25 | 2.47 | 2.53 | 3.13 | 3.09 |
| | 12 | 9.5 | 96.55 | 1.27 | 1.28 | 1.19 | 1.56 | 1.45 | 1.72 | 1.56 | 2.15 | 1.83 |
| | 13 | 10.0 | 96.55 | 1.87 | 1.89 | 1.76 | 2.30 | 2.13 | 2.54 | 2.30 | 3.17 | 2.69 |
| | 14 | 10.5 | 96.75 | 2.70 | 2.74 | 2.55 | 3.57 | 3.26 | 4.02 | 3.58 | 5.14 | 4.27 |
| | 15 | 11.0 | 96.65 | 4.26 | 4.30 | 4.01 | 5.41 | 4.99 | 6.03 | 5.43 | 7.61 | 6.40 |
| | 16 | 11.5 | 96.75 | 4.15 | 4.21 | 3.92 | 5.49 | 5.01 | 6.18 | 5.50 | 7.90 | 6.56 |
| | 17 | 12.0 | 96.75 | 4.07 | 4.12 | 3.84 | 5.38 | 4.91 | 6.06 | 5.39 | 7.74 | 6.43 |
| | 18 | 12.5 | 96.85 | 3.12 | 3.17 | 2.95 | 4.34 | 3.91 | 4.94 | 4.33 | 6.40 | 5.23 |
| | 19 | 13.0 | 96.85 | 2.71 | 2.76 | 2.56 | 3.77 | 3.39 | 4.29 | 3.76 | 5.56 | 4.54 |
| | 20 | 13.5 | 96.95 | 2.66 | 2.68 | 2.52 | 3.28 | 3.49 | 3.63 | 3.91 | 4.53 | 4.78 |
| | 21 | 14.0 | 96.95 | 2.97 | 3.00 | 2.82 | 3.81 | 3.89 | 4.26 | 4.36 | 5.40 | 5.34 |
| | 22 | 14.5 | 97.05 | 2.86 | 2.95 | 2.72 | 4.62 | 3.97 | 5.42 | 4.51 | 7.25 | 5.60 |
| | 23 | 15.0 | 96.45 | 0.00 | 0.26 | * 1.53 * | 0.31 | 1.82 | 0.34 | 1.95 | 0.42 | 2.25 |
| * | 24 | 15.5 | 96.55 | 0.24 | 0.24 | 1.44 * | 0.29 | 1.75 | 0.33 | 1.88 | 0.41 | 2.20 |
| | 25 | 16.0 | 96.95 | 1.40 | 1.41 | 1.33 | 1.74 | 1.83 | 1.92 | 2.06 | 2.41 | 2.52 |
| | 26 | 16.5 | 97.74 | | | | 4.20 | 3.67 | 5.86 | 5.14 | 9.10 | 7.62 |
| | 27 | 17.0 | 97.68 | | | | 4.55 | 3.99 | 6.14 | 5.39 | 9.33 | 7.80 |
| | 28 | 17.5 | 97.62 | | | | 4.90 | 4.15 | 6.43 | 5.52 | 9.55 | 7.90 |
| * | 29 | 18.0 | 97.39 | 3.53 | 3.69 | 2.51 * | 6.56 | 5.40 | 7.84 | 6.54 | 10.72 | 8.68 |
| * | 30 | 18.5 | 97.60 | | 0.28 | * | 2.91 | 2.62 | 3.79 | 3.48 | 5.60 | 4.99 |
| | 31 | 20.5 | 97.68 | | | | 2.65 | 2.52 | 3.57 | 3.41 | 5.42 | 4.93 |
| | 32 | 21.0 | 97.44 | 1.32 | 1.45 | 1.33 | 3.41 | 3.26 | 4.21 | 4.01 | 5.94 | 5.39 |
| | 33 | 21.5 | 97.39 | 1.85 | 1.98 | 1.83 | 4.11 | 3.94 | 5.01 | 4.77 | 6.99 | 6.34 |
| | 34 | 22.0 | 97.29 | 2.92 | 3.05 | 2.83 | 5.34 | 5.13 | 6.37 | 6.07 | 8.69 | 7.88 |
| | 35 | 22.5 | 97.19 | 2.81 | 2.90 | 2.70 | 4.54 | 4.37 | 5.32 | 5.07 | 7.12 | 6.45 |
| | 36 | 23.0 | 97.09 | 1.36 | 1.39 | 1.30 | 2.02 | 1.94 | 2.33 | 2.22 | 3.06 | 2.77 |
| | 37 | 23.5 | 96.79 | 3.73 | 3.77 | 3.52 | 4.73 | 4.57 | 5.28 | 5.03 | 6.67 | 6.03 |
| | 38 | 24.0 | 95.89 | 1.66 | 1.66 | 1.55 | 1.77 | 1.71 | 1.87 | 1.78 | 2.19 | 1.98 |
| | 39 | 24.3 | 96.09 | 2.74 | 2.74 | 2.57 | 2.99 | 2.89 | 3.19 | 3.03 | 3.78 | 3.41 |
| | 40 | 24.6 | 96.39 | 3.84 | 3.85 | 3.61 | 4.39 | 4.24 | 4.75 | 4.52 | 5.77 | 5.21 |
| | 41 | 25.0 | 96.39 | 4.95 | 4.97 | 4.65 | 5.66 | 5.46 | 6.13 | 5.83 | 7.44 | 6.72 |
| | 42 | 25.3 | 96.39 | 4.85 | 4.87 | 4.55 | 5.54 | 5.35 | 6.00 | 5.72 | 7.29 | 6.58 |
| | 43 | 25.6 | 95.89 | 4.32 | 4.32 | 4.04 | 4.60 | 4.45 | 4.87 | 4.63 | 5.71 | 5.15 |
| | 44 | 26.0 | 95.69 | 3.74 | 3.73 | 3.50 | 3.91 | 3.78 | 4.11 | 3.91 | 4.76 | 4.30 |
| | 45 | 26.3 | 96.39 | 2.59 | 2.60 | 2.43 | 2.96 | 2.86 | 3.21 | 3.05 | 3.89 | 3.51 |
| | 46 | 26.6 | 96.99 | 3.49 | 3.56 | 3.31 | 5.00 | 4.67 | 5.73 | 5.26 | 7.48 | 6.48 |
| | 47 | 27.0 | 97.09 | 2.74 | 2.80 | 2.61 | 4.06 | 3.91 | 4.69 | 4.46 | 6.17 | 5.58 |
| * | 48 | 27.3 | 97.59 | | 0.37 | * | 2.73 | 2.46 | 3.54 | 3.25 | 5.21 | 4.64 |
| | 49 | 28.2 | 99.36 | | | | | | | | | 0.09 |
| | 50 | 28.4 | 99.52 | | | | | | | | | |
| Total | | | | | 3 * | 3 * | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3. 9- Summary of calibration details for original and revised high flow input decks | | | | | | | | | | | | |
|---|----|------|--------|--------------|-------|----------|-------|--------|-------|--------|-------|------|
| Calibration details for Lake Creek Study Site 4 High Flow | | | | | | | | | | | | |
| Transect 9 | | | | | | | | | | | | |
| WSE (ft) | | | 98.54 | | | 99.41 | | 99.92 | | 101.10 | | |
| Disch (cfs) | | | 33.50 | | | 85.00 | | 127.00 | | 260.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | Rev | Orig | Rev | Orig | Rev | Orig | Rev |
| | 1 | 0.0 | 100.34 | | | | | | | | -0.05 | 0.32 |
| | 2 | 0.1 | 100.08 | | | | | | | | -0.06 | 0.39 |
| | 3 | 0.8 | 98.92 | | | | | | | | -0.10 | 0.66 |
| | 4 | 5.8 | 98.53 | | 0.00 | 0.01 | -0.03 | 0.24 | -0.05 | 0.38 | -0.12 | 0.73 |
| | 5 | 6.0 | 98.48 | 0.00 | 0.00 | 0.03 | -0.03 | 0.25 | -0.05 | 0.39 | -0.12 | 0.74 |
| | 6 | 8.0 | 98.43 | 0.00 | 0.00 | 0.04 | -0.03 | 0.26 | -0.05 | 0.40 | -0.12 | 0.75 |
| | 7 | 10.0 | 98.07 | 0.00 | -0.01 | 0.10 | -0.03 | 0.32 | -0.06 | 0.46 | -0.13 | 0.82 |
| * | 8 | 12.0 | 97.72 | -0.01 | -0.01 | 0.15 | -0.04 | 0.37 | -0.06 | 0.52 | -0.14 | 0.88 |
| * | 9 | 14.0 | 97.62 | -0.34 | -0.43 | 0.26 | -1.38 | 0.65 | -2.17 | 0.90 | -4.70 | 1.53 |
| * | 10 | 15.0 | 97.02 | -0.62 | -0.79 | 0.46 | -2.08 | 0.98 | -3.13 | 1.30 | -6.40 | 2.09 |
| * | 11 | 16.0 | 96.62 | -0.50 | -0.63 | 0.37 | -1.59 | 0.75 | -2.35 | 0.98 | -4.69 | 1.53 |
| * | 12 | 17.0 | 96.42 | -0.49 | -0.62 | 0.37 | -1.52 | 0.72 | -2.24 | 0.93 | -4.43 | 1.44 |
| * | 13 | 18.0 | 96.17 | -0.09 | -0.11 | 0.07 | -0.27 | 0.13 | -0.40 | 0.17 | -0.78 | 0.25 |
| * | 14 | 19.0 | 95.92 | -0.10 | -0.12 | 0.07 | -0.28 | 0.13 | -0.41 | 0.17 | -0.80 | 0.26 |
| * | 15 | 20.0 | 95.52 | -0.05 | -0.06 | 0.04 | -0.15 | 0.07 | -0.21 | 0.09 | -0.40 | 0.13 |
| | 16 | 21.0 | 95.22 | 0.62 | 0.78 | 0.46 | 1.79 | 0.84 | 2.55 | 1.06 | 4.82 | 1.57 |
| | 17 | 21.3 | 95.22 | 1.30 | 1.63 | * 0.97 * | 3.73 | 1.76 | 5.33 | 2.22 | 10.07 | 3.29 |
| | 18 | 21.6 | 95.22 | 0.98 | 1.24 | * 0.73 * | 2.83 | 1.33 | 4.03 | 1.68 | 7.62 | 2.49 |
| | 19 | 22.0 | 95.72 | 1.73 | 2.18 | * 1.29 * | 5.10 | 2.40 | 7.35 | 3.06 | 14.11 | 4.61 |
| * | 20 | 22.3 | 95.37 | 2.58 | 3.25 | * 1.71 * | 7.49 | 3.14 | 10.71 | 3.98 | 20.35 | 5.92 |
| * | 21 | 22.6 | 95.32 | 2.75 | 3.48 | * 1.73 * | 7.99 | 3.16 | 11.43 | 4.01 | 21.67 | 5.95 |
| * | 22 | 23.0 | 95.02 | 3.26 | 4.11 | * 1.84 * | 9.32 | 3.32 | 13.26 | 4.18 | 24.93 | 6.16 |
| * | 23 | 23.3 | 94.82 | 2.86 | 3.60 | * 1.91 * | 8.11 | 3.42 | 11.49 | 4.29 | 21.50 | 6.29 |
| | 24 | 23.6 | 94.92 | 2.31 | 2.91 | * 1.72 * | 6.57 | 3.09 | 9.33 | 3.88 | 17.49 | 5.71 |
| | 25 | 24.0 | 94.92 | 1.66 | 2.09 | * 1.23 * | 4.72 | 2.22 | 6.70 | 2.79 | 12.56 | 4.10 |
| | 26 | 24.5 | 95.02 | 1.79 | 2.26 | * 1.33 * | 5.12 | 2.41 | 7.28 | 3.03 | 13.69 | 4.47 |
| | 27 | 25.0 | 95.02 | 1.49 | 1.88 | * 1.11 * | 4.26 | 2.00 | 6.06 | 2.52 | 11.40 | 3.72 |
| | 28 | 26.0 | 95.62 | 0.89 | 1.12 | * 0.66 * | 2.62 | 1.23 | 3.76 | 1.57 | 7.20 | 2.35 |
| * | 29 | 27.0 | 94.92 | 0.19 | 0.24 | 0.26 | 0.54 | 0.47 | 0.77 | 0.59 | 1.44 | 0.87 |
| | 30 | 28.0 | 94.87 | 0.27 | 0.34 | 0.20 | 0.77 | 0.36 | 1.09 | 0.45 | 2.04 | 0.67 |
| * | 31 | 29.0 | 95.02 | -0.23 | -0.29 | 0.21 | -0.66 | 0.39 | -0.94 | 0.49 | -1.76 | 0.72 |
| * | 32 | 30.0 | 95.12 | -0.19 | -0.24 | 0.25 | -0.55 | 0.46 | -0.78 | 0.58 | -1.47 | 0.85 |
| * | 33 | 32.0 | 96.12 | -0.28 | -0.35 | 0.33 | -0.85 | 0.64 | -1.24 | 0.82 | -2.41 | 1.26 |
| * | 34 | 34.0 | 97.12 | -0.49 | -0.62 | 0.47 | -1.67 | 1.00 | -2.53 | 1.34 | -5.21 | 2.16 |
| | 35 | 36.0 | 98.12 | 0.00 | -0.26 | * 0.19 | -1.12 | 0.67 | -1.85 | 0.98 | -4.25 | 1.77 |
| | 36 | 36.5 | 98.53 | | -0.03 | 0.02 | -0.88 | 0.53 | -1.58 | 0.84 | -3.88 | 1.61 |
| | 37 | 37.1 | 100.17 | | | | | | | | -1.96 | 0.82 |
| | 38 | 38.0 | 101.56 | | | | | | | | | |
| Total | | | | 13 * 12 * | | | | | | | | |
| Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20% | | | | | | | | | | | | |

| Table 3.10 - Summary of calibration details for original and revised input high flow decks | | | | | | | | | | | | |
|--|-------|--------|-------|-------------|------|-------|------|--------|------|--------|-------|-------|
| Calibration details for Lake Creek Study Site 4 High Flow | | | | | | | | | | | | |
| Transect 10 | | | | | | | | | | | | |
| WSE (ft) | | | 98.51 | | | 99.12 | | 99.43 | | 100.03 | | |
| Disch (cfs) | | | 33.50 | | | 83.75 | | 127.00 | | 260.00 | | |
| Rv | Pt | Sta | Elev | Meas | Orig | Rev | Orig | Rev | Orig | Rev | | |
| 1 | 0.00 | 101.30 | | | | | | | | | | |
| 2 | 0.10 | 101.04 | | | | | | | | | | |
| 3 | 8.30 | 99.08 | | | | 0.06 | 0.06 | 0.31 | 0.33 | 0.93 | 0.99 | |
| 4 | 9.30 | 98.92 | | | | 0.17 | 0.18 | 0.40 | 0.43 | 1.04 | 1.10 | |
| 5 | 11.40 | 99.07 | | | | 0.07 | 0.07 | 0.32 | 0.34 | 0.94 | 1.00 | |
| 6 | 12.00 | 98.57 | | | | 0.33 | 0.36 | 0.57 | 0.61 | 1.24 | 1.32 | |
| 7 | 12.20 | 98.54 | | | | 0.35 | 0.37 | 0.58 | 0.62 | 1.26 | 1.34 | |
| 8 | 14.00 | 98.14 | | 0.00 | 0.14 | 0.15 | 0.49 | 0.52 | 0.75 | 0.79 | 1.48 | 1.57 |
| 9 | 15.00 | 97.99 | | 0.20 | 0.18 | 0.19 | 0.54 | 0.58 | 0.80 | 0.86 | 1.56 | 1.65 |
| 10 | 16.00 | 97.84 | | 0.00 | 0.15 | 0.16 | 0.41 | 0.43 | 0.59 | 0.63 | 1.13 | 1.20 |
| 11 | 17.00 | 97.59 | | 0.00 | 0.18 | 0.20 | 0.46 | 0.49 | 0.66 | 0.70 | 1.21 | 1.29 |
| 12 | 18.00 | 97.59 | | 0.20 | 0.18 | 0.20 | 0.46 | 0.49 | 0.66 | 0.70 | 1.21 | 1.29 |
| 13 | 19.00 | 96.54 | | 0.20 | 0.19 | 0.20 | 0.39 | 0.42 | 0.54 | 0.57 | 0.93 | 0.99 |
| 14 | 19.50 | 96.24 | | 0.20 | 0.19 | 0.20 | 0.38 | 0.41 | 0.52 | 0.56 | 0.90 | 0.95 |
| 15 | 20.00 | 96.09 | | 0.60 | 0.56 | 0.60 | 1.15 | 1.22 | 1.55 | 1.65 | 2.65 | 2.81 |
| 16 | 20.50 | 96.09 | | 1.88 | 1.76 | 1.89 | 3.59 | 3.83 | 4.86 | 5.18 | 8.31 | 8.80 |
| 17 | 21.00 | 96.04 | | 1.54 | 1.43 | 1.54 | 2.92 | 3.12 | 3.95 | 4.21 | 6.75 | 7.15 |
| * | 18 | 21.50 | 95.94 | 2.44 | 2.28 | 2.11 | 4.62 | 4.26 | 6.24 | 5.74 | 10.62 | 9.72 |
| * | 19 | 22.00 | 95.74 | 2.82 | 2.64 | 2.33 | 5.29 | 4.65 | 7.13 | 6.24 | 12.06 | 10.51 |
| * | 20 | 22.50 | 95.54 | 2.44 | 2.28 | 2.14 | 4.55 | 4.23 | 6.10 | 5.67 | 10.27 | 9.50 |
| * | 21 | 23.00 | 95.64 | 2.71 | 2.53 | 2.28 | 5.07 | 4.53 | 6.81 | 6.07 | 11.50 | 10.19 |
| * | 22 | 23.50 | 95.64 | 2.43 | 2.27 | 2.03 | 4.53 | 4.04 | 6.09 | 5.42 | 10.29 | 9.10 |
| | 23 | 24.00 | 95.74 | 1.94 | 1.81 | 1.94 | 3.63 | 3.88 | 4.89 | 5.21 | 8.28 | 8.77 |
| | 24 | 24.50 | 95.79 | 1.31 | 1.22 | 1.31 | 2.46 | 2.62 | 3.31 | 3.52 | 5.60 | 5.94 |
| | 25 | 25.00 | 95.79 | 0.88 | 0.82 | 0.88 | 1.66 | 1.77 | 2.23 | 2.38 | 3.78 | 4.01 |
| | 26 | 25.50 | 95.64 | 0.54 | 0.50 | 0.54 | 1.00 | 1.07 | 1.34 | 1.43 | 2.27 | 2.41 |
| | 27 | 26.00 | 95.64 | 0.56 | 0.52 | 0.56 | 1.05 | 1.12 | 1.41 | 1.50 | 2.38 | 2.52 |
| | 28 | 26.50 | 95.64 | 1.12 | 1.05 | 1.12 | 2.09 | 2.24 | 2.81 | 3.00 | 4.75 | 5.04 |
| | 29 | 27.00 | 95.84 | 0.89 | 0.83 | 0.89 | 1.68 | 1.79 | 2.26 | 2.41 | 3.84 | 4.07 |
| | 30 | 27.50 | 95.94 | 0.55 | 0.51 | 0.55 | 1.04 | 1.11 | 1.41 | 1.50 | 2.39 | 2.54 |
| | 31 | 28.00 | 95.74 | 0.27 | 0.25 | 0.27 | 0.51 | 0.54 | 0.68 | 0.73 | 1.15 | 1.22 |
| | 32 | 29.00 | 95.89 | 0.09 | 0.08 | 0.09 | 0.17 | 0.18 | 0.23 | 0.24 | 0.39 | 0.41 |
| | 33 | 30.00 | 96.34 | 0.13 | 0.12 | 0.13 | 0.25 | 0.27 | 0.34 | 0.37 | 0.59 | 0.63 |
| * | 34 | 31.00 | 96.99 | 0.02 | 0.02 | 0.11 | 0.04 | 0.24 | 0.06 | 0.34 | 0.10 | 0.59 |
| * | 35 | 32.00 | 97.09 | 0.03 | 0.03 | 0.11 | 0.06 | 0.23 | 0.09 | 0.33 | 0.16 | 0.58 |
| * | 36 | 33.00 | 97.49 | 0.02 | 0.02 | 0.08 | 0.04 | 0.20 | 0.06 | 0.29 | 0.12 | 0.53 |
| | 37 | 33.85 | 98.54 | | | | 0.02 | 0.10 | 0.04 | 0.17 | 0.08 | 0.37 |
| | 38 | 33.86 | 99.88 | | | | | | | | 0.02 | 0.08 |
| Total | | | | 0 * 0 * | | | | | | | | |

Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20%

| Table 3.11 - Summary of calibration details for original and revised high flow input decks | | | | | | | | | | | | | | |
|--|-------|----------|-------------|-------------|------|------|---------|-------|------|-------|-------|-------|-----|--|
| Calibration details for Lake Creek Study Site 4 High Flow | | | | | | | | | | | | | | |
| Transect 11 | | | | | | | | | | | | | | |
| Rv | Pt | WSE (ft) | | 98.02 | | | | 98.45 | | 98.67 | | 99.14 | | |
| | | Sta | Elev | Disch (cfs) | Meas | Orig | * Rev * | Orig | Rev | Orig | Rev | Orig | Rev | |
| 1 | 0.00 | 100.32 | | | | | | | | | | | | |
| 2 | 0.10 | 99.94 | | | | | | | | | | | | |
| 3 | 4.90 | 98.01 | | | | | | | | | | | | |
| 4 | 5.50 | 97.81 | 0.00 | 0.05 | 0.19 | | 0.12 | 0.43 | 0.19 | 0.66 | 0.37 | 1.24 | | |
| 5 | 6.00 | 97.81 | 0.00 | 0.05 | 0.19 | | 0.16 | 0.55 | 0.22 | 0.78 | 0.41 | 1.38 | | |
| 6 | 6.50 | 97.71 | 0.00 | 0.07 | 0.24 | * | 0.17 | 0.60 | 0.24 | 0.84 | 0.43 | 1.45 | | |
| 7 | 7.00 | 97.41 | 0.10 | 0.10 | 0.38 | * | 0.21 | 0.76 | 0.29 | 1.01 | 0.49 | 1.65 | | |
| 8 | 7.50 | 97.41 | 0.00 | 0.09 | 0.38 | * | 0.19 | 0.76 | 0.26 | 1.01 | 0.44 | 1.65 | | |
| 9 | 8.00 | 97.51 | 0.08 | 0.08 | 0.33 | * | 0.18 | 0.71 | 0.25 | 0.95 | 0.43 | 1.58 | | |
| 10 | 8.50 | 97.46 | 0.15 | 0.16 | 0.36 | * | 0.33 | 0.73 | 0.45 | 0.98 | 0.76 | 1.62 | | |
| 11 | 9.00 | 97.31 | 0.04 | 0.04 | 0.42 | * | 0.08 | 0.81 | 0.11 | 1.06 | 0.18 | 1.71 | | |
| 12 | 9.50 | 97.91 | 0.00 | 0.06 | 0.12 | | 0.24 | 0.49 | 0.36 | 0.72 | 0.68 | 1.31 | | |
| 13 | 10.00 | 97.91 | 0.00 | 0.06 | 0.12 | | 0.24 | 0.49 | 0.36 | 0.72 | 0.68 | 1.31 | | |
| 14 | 10.50 | 97.71 | 0.11 | 0.12 | 0.24 | | 0.30 | 0.60 | 0.42 | 0.84 | 0.75 | 1.45 | | |
| 15 | 11.00 | 97.21 | 0.33 | 0.34 | 0.35 | | 0.66 | 0.66 | 0.87 | 0.86 | 1.43 | 1.37 | | |
| 16 | 11.50 | 97.21 | 0.55 | 0.57 | 0.59 | | 1.09 | 1.10 | 1.45 | 1.43 | 2.39 | 2.28 | | |
| 17 | 12.00 | 97.26 | 0.87 | 0.90 | 0.93 | | 1.76 | 1.76 | 2.34 | 2.31 | 3.88 | 3.70 | | |
| 18 | 12.50 | 97.26 | 1.82 | 1.87 | 1.94 | | 3.68 | 3.69 | 4.90 | 4.83 | 8.12 | 7.74 | | |
| 19 | 13.00 | 97.31 | 0.90 | 0.93 | 0.96 | | 1.85 | 1.85 | 2.48 | 2.44 | 4.13 | 3.94 | | |
| 20 | 13.50 | 97.06 | 0.33 | 0.34 | 0.35 | | 0.63 | 0.63 | 0.83 | 0.82 | 1.34 | 1.28 | | |
| 21 | 14.00 | 97.26 | 2.09 | 2.15 | 2.23 | | 4.23 | 4.23 | 5.62 | 5.55 | 9.32 | 8.89 | | |
| 22 | 14.50 | 97.01 | 0.94 | 0.97 | 1.00 | | 1.78 | 1.78 | 2.33 | 2.30 | 3.76 | 3.59 | | |
| 23 | 15.00 | 97.11 | 1.38 | 1.42 | 1.47 | | 2.67 | 2.68 | 3.52 | 3.47 | 5.73 | 5.47 | | |
| 24 | 15.50 | 97.51 | 1.72 | 1.77 | 1.83 | | 3.31 | 3.31 | 4.34 | 4.29 | 7.06 | 6.73 | | |
| 25 | 16.00 | 97.41 | 2.19 | 2.26 | 1.88 | | 4.70 | 3.79 | 6.35 | 5.05 | 10.72 | 8.24 | | |
| 26 | 16.50 | 96.91 | 1.94 | 1.99 | 2.06 | | 3.61 | 3.61 | 4.68 | 4.62 | 7.51 | 7.16 | | |
| 27 | 17.00 | 97.01 | 0.28 | 0.29 | 0.30 | | 0.53 | 0.53 | 0.69 | 0.68 | 1.12 | 1.07 | | |
| 28 | 17.50 | 97.01 | 0.51 | 0.52 | 0.54 | | 0.97 | 0.97 | 1.26 | 1.25 | 2.04 | 1.95 | | |
| 29 | 18.00 | 97.01 | 1.42 | 1.46 | 1.51 | | 2.69 | 2.69 | 3.51 | 3.47 | 5.68 | 5.42 | | |
| 30 | 18.50 | 96.86 | 1.52 | 1.56 | 1.61 | | 2.80 | 2.81 | 3.63 | 3.58 | 5.79 | 5.53 | | |
| 31 | 19.00 | 96.91 | 3.19 | 3.27 | 2.81 | | 5.93 | 4.93 | 7.70 | 6.31 | 12.34 | 9.77 | | |
| 32 | 19.50 | 96.91 | 3.05 | 3.13 | 2.81 | | 5.67 | 4.93 | 7.36 | 6.31 | 11.80 | 9.77 | | |
| 33 | 20.00 | 96.91 | 2.23 | 2.29 | 2.37 | | 4.14 | 4.15 | 5.38 | 5.31 | 8.63 | 8.23 | | |
| 34 | 20.50 | 96.66 | 3.17 | 3.25 | 3.02 | | 5.68 | 5.11 | 7.29 | 6.46 | 11.48 | 9.84 | | |
| 35 | 21.00 | 96.91 | 2.45 | 2.51 | 2.60 | | 4.55 | 4.56 | 5.91 | 5.84 | 9.48 | 9.04 | | |
| 36 | 21.50 | 96.66 | 1.45 | 1.49 | 1.54 | | 2.60 | 2.60 | 3.34 | 3.29 | 5.25 | 5.01 | | |
| 37 | 22.00 | 96.71 | 2.86 | 2.93 | 2.48 | | 5.16 | 4.22 | 6.63 | 5.35 | 10.48 | 8.17 | | |
| 38 | 22.50 | 96.66 | 2.98 | 3.05 | 2.54 | | 5.34 | 4.30 | 6.85 | 5.44 | 10.79 | 8.28 | | |
| 39 | 23.00 | 96.56 | 3.38 | 3.46 | 2.53 | * | 5.99 | 4.24 | 7.66 | 5.34 | 11.98 | 8.08 | | |
| 40 | 23.50 | 96.76 | 2.25 | 2.31 | 2.39 | | 4.09 | 4.09 | 5.27 | 5.20 | 8.35 | 7.96 | | |
| 41 | 24.00 | 96.71 | 1.89 | 1.94 | 2.00 | | 3.41 | 3.41 | 4.38 | 4.33 | 6.93 | 6.61 | | |
| 42 | 24.50 | 96.71 | 1.56 | 1.60 | 1.65 | | 2.81 | 2.82 | 3.62 | 3.57 | 5.72 | 5.45 | | |
| 43 | 25.00 | 96.76 | 1.04 | 1.07 | 1.10 | | 1.89 | 1.89 | 2.43 | 2.40 | 3.86 | 3.68 | | |
| 44 | 25.50 | 96.76 | 0.68 | 0.70 | 0.72 | | 1.23 | 1.24 | 1.59 | 1.57 | 2.52 | 2.41 | | |
| 45 | 26.00 | 96.81 | 0.65 | 0.67 | 0.69 | | 1.19 | 1.19 | 1.54 | 1.52 | 2.44 | 2.33 | | |
| 46 | 27.00 | 97.06 | 0.98 | 1.01 | 1.04 | | 1.88 | 1.88 | 2.46 | 2.43 | 3.99 | 3.81 | | |
| 47 | 28.00 | 96.71 | 1.21 | 1.24 | 1.28 | | 2.18 | 2.19 | 2.81 | 2.77 | 4.43 | 4.23 | | |
| 48 | 29.00 | 97.51 | 0.15 | 0.15 | 0.16 | | 0.32 | 0.32 | 0.43 | 0.43 | 0.73 | 0.70 | | |
| 49 | 31.00 | 98.95 | | | | | | | | | 0.16 | 0.16 | | |
| 50 | 33.00 | 97.51 | 0.23 | 0.24 | 0.25 | | 0.52 | 0.52 | 0.71 | 0.70 | 1.22 | 1.17 | | |
| 51 | 34.00 | 97.16 | 0.22 | 0.23 | 0.47 | | 0.43 | 0.88 | 0.57 | 1.14 | 0.93 | 1.80 | | |
| 52 | 35.00 | 97.16 | 0.48 | 0.49 | 0.51 | | 0.94 | 0.94 | 1.24 | 1.23 | 2.04 | 1.94 | | |
| 53 | 36.00 | 97.31 | 0.02 | 0.02 | 0.42 | | 0.04 | 0.81 | 0.06 | 1.06 | 0.09 | 1.71 | | |
| 54 | 38.00 | 97.51 | 0.00 | 0.02 | 0.33 | | 0.04 | 0.71 | 0.05 | 0.95 | 0.08 | 1.58 | | |
| 55 | 40.00 | 98.01 | | 0.00 | 0.03 | | 0.02 | 0.43 | 0.03 | 0.66 | 0.07 | 1.24 | | |
| 56 | 50.00 | 98.81 | | | | | | | | | 0.03 | 0.54 | | |
| 57 | 54.70 | 100.24 | | | | | | | | | | | | |
| 58 | 55.10 | 100.67 | | | | | | | | | | | | |
| Total | | | | 0 * 7 * | | | | | | | | | | |
| Note: an * means the modeled velocity exceeds the measured velocity by 0.2 ft/sec or 20% | | | | | | | | | | | | | | |

Table 4. Summary of Calibration Details, Lake Creek Study Site 4.

| Trans No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|--------|---------|---------|--------|--------|---------|--------|--------|--------|--------|--------|
| DISCHARGE | | | | | | | | | | | |
| Meas. | N/A | 5 | N/A | 4 | 6 | N/A | 6 | 5 | 7 | 6 | 7 |
| | 17 | N/A | 16 | 12 | 22 | 17 | 17 | 16 | 22 | 15 | 16 |
| | 34 | 33 | 39 | 33 | 33 | 32 | 30 | 38 | 28 | 35 | 32 |
| | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 |
| Calc. | N/A | 5 | N/A | 5 | 5 | N/A | 6 | 5.6 | 7 | 7 | 7 |
| | 20 | N/A | 18 | 13 | 17 | 18 | 14 | 16 | 24 | 17 | 15 |
| | 37 | 27 | 39 | 34 | 30 | 34 | 32 | 38 | 39 | 36 | 32 |
| | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 |
| Given | N/A | 6 | N/A | 6 | 6 | N/A | 6 | 6 | 6 | 6 | 6 |
| | 17 | N/A | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 |
| | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 |
| Stage (given) | N/A | 95.49 | N/A | 98.34 | 98.33 | | 97.02 | 97.59 | 97.66 | 97.63 | 97.48 |
| | 94.27 | N/A | 98.62 | 98.73 | 98.76 | 95.73 | 97.33 | 97.97 | 98.12 | 98.11 | 97.76 |
| | 94.64 | 96.17 | 98.93 | 99.10 | 99.11 | 96.20 | 97.59 | 98.30 | 98.53 | 98.53 | 98.01 |
| | 95.34 | 97.62 | 99.93 | 99.94 | 99.96 | 96.88 | 98.56 | 99.01 | 99.93 | 99.41 | 98.69 |
| Plotting Stage (given) | N/A | 0.31 | N/A | 1.54 | 1.38 | N/A | 0.46 | 1.44 | 0.72 | 2.09 | 0.92 |
| | 1.83 | N/A | 0.80 | 1.93 | 1.81 | 2.03 | 0.77 | 1.82 | 1.18 | 2.57 | 1.20 |
| | 2.20 | 0.99 | 1.11 | 2.30 | 2.16 | 2.50 | 1.03 | 2.15 | 1.59 | 2.99 | 1.45 |
| | 2.90 | 2.44 | 2.11 | 3.14 | 3.01 | 3.18 | 2.00 | 2.86 | 2.99 | 3.87 | 2.13 |
| Ratio of Modeled vs Predicted Discharge (given) | | | | | | | | | | | |
| Based on Stage-Discharge Relationship | N/A | 0.9995 | N/A | 0.9731 | 1.0132 | N/A | 1.0021 | 1.0101 | 1.0016 | 1.0033 | 0.9602 |
| | 1.0520 | 1.0011 | 1.0003 | 1.0529 | 0.9932 | 1.0951 | 0.9693 | 1.0139 | 0.9809 | 1.0265 | 1.0392 |
| | 0.9205 | N/A | 0.9995 | 0.9731 | 0.9932 | 0.8441 | 1.0411 | 0.9549 | 1.0250 | 0.9516 | 1.0318 |
| | 1.0337 | 0.9994 | 1.0002 | 0.9738 | 1.0141 | 1.0813 | 0.9889 | 1.0225 | 0.9930 | 1.0204 | 0.9713 |
| Mean Error of Stage/Discharge Relationship | 5.5849 | 0.074 | 0.0338 | 2.5574 | 1.3543 | 11.5700 | 2.1121 | 2.3230 | 1.3110 | 2.4972 | 3.4850 |
| Stage/Discharge Relationship (S vs Q) $S=A*Q^{**}B+SZF$ | | | | | | | | | | | |
| A= | 0.9727 | 0.0922 | 0.0240 | 1.0052 | 0.8759 | 1.0479 | 0.1949 | 0.9632 | 0.3128 | 1.4538 | 0.5548 |
| B= | 0.2271 | 0.67613 | 48.2300 | 0.2345 | 0.2557 | 0.2219 | 0.4795 | 0.2257 | 0.4653 | 0.2030 | 0.2761 |
| SZF= | 92.44 | 95.18 | 97.82 | 96.80 | 96.95 | 93.70 | 96.56 | 96.15 | 96.94 | 95.54 | 96.56 |
| B Coefficient log/log Relationship (calculated) | 4.404 | 1.479 | 1.156 | 4.264 | 9.913 | 4.518 | 2.086 | 4.431 | 2.149 | 4.927 | 3.622 |

Table 5. Summary of calculations of Stage and Mean error, using various combinations of WSE and flows.

| Transect | Given Flow | Meas Stage | Calculated | | | | | | |
|----------|------------|--------------|------------|--------------|-------------|-------|--------------|--------------|----------------------|
| | | | All Q/WSE | | Low 3 Q/WSE | | High 3 q/WSE | | Preferred |
| 1 | 6 | 93.77 | 93.81 | | 93.77 | | 93.90 | | High 3 |
| | 17 | 94.27 | 94.23 | | 94.25 | | 94.29 | | |
| | 34 | 94.64 | 94.57 | | 94.65 | | 94.6 | | |
| | 127 | 95.34 | 95.43 | | 95.72 | | 95.36 | | |
| | Given SZF | | 92.44 | | 92.44 | | 92.44 | | |
| | ME | | 11.48 | | 2.14 | | 5.58 | | |
| 2 | 6 | 95.49 | 95.43 | 95.49 | 95.50 | 95.50 | 95.33 | 95.89 | (1,3,4) |
| | 17 | 95.99 | 95.95 | 95.90 | 95.91 | 95.91 | 98.87 | 95.99 | |
| | 34 | 96.17 | 96.38 | 96.30 | 96.24 | 96.24 | 96.33 | 96.17 | |
| | 127 | 97.62 | 97.51 | 97.58 | 97.04 | 97.04 | 97.58 | 97.92 | |
| | Given SZF | | 93.97 | | 93.97 | | 93.97 | | |
| | ME | | 14.87 | | 11.62 | | 14.66 | | |
| 3 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | High 3 Rev SZF |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 4 | 6 | 95.24 | 95.28 | 95.27 | 95.24 | 95.24 | 95.42 | 95.34 | |
| | 17 | 95.73 | 95.66 | 95.72 | 95.71 | 95.73 | 95.77 | 95.77 | |
| | 34 | 96.20 | 96.02 | 96.08 | 96.21 | 96.2 | 96.08 | 96.11 | |
| | 127 | 96.88 | 97.17 | 96.99 | 98 | 97.67 | 96.97 | 96.94 | |
| | Given SZF | | 94.67 | | 94.67 | | 94.67 | | |
| | ME | | 21.19 | | 1.7065 | | 14.96 | | |
| 5 | 6 | 97.02 | 96.97 | 97.02 | 97.02 | 97.02 | 96.88 | 97.10 | |
| | 17 | 97.33 | 97.36 | 97.32 | 97.34 | 97.33 | 97.3 | 97.33 | |
| | 34 | 97.59 | 97.68 | 97.61 | 97.59 | 97.59 | 97.64 | 97.59 | |
| | 127 | 98.56 | 98.49 | 98.55 | 98.19 | 98.28 | 98.56 | 98.58 | |
| | Given SZF | | 95.69 | | 95.69 | | 95.69 | | |
| | ME | | | | | | | | |
| 6 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 7 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 8 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 9 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 10 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 11 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 12 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 13 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 14 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 15 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 16 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 17 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 18 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 19 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 20 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 21 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 22 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | 98.24 | 98.10 | 98.30 | |
| | 17 | 98.62 | 98.59 | 98.54 | 98.56 | 98.62 | 98.54 | 98.62 | |
| | 34 | 98.93 | 98.94 | 98.85 | 98.81 | 98.93 | 98.91 | 98.93 | |
| | 127 | 99.93 | 99.83 | 99.90 | 99.41 | 99.73 | 99.90 | 99.93 | |
| | Given SZF | | 96.93 | | 96.93 | | 96.93 | | |
| | ME | | 14.98 | | 1.93 | | 12.51 | | |
| 23 | 6 | 98.24 | 98.18 | 98.24 | 98.24 | | | | |

Table 5. Summary of calculations of Stage and Mean error, using various combinations of WSE and flows.

| Transect | Given Flow | Meas Stage | Calculated | | | | | |
|----------|-------------------------|--------------|------------|--------------|--------------|-----------|-------|--------|
| | | | All Q/WSE | Low 3 Q/WSE | High 3 q/WSE | Preferred | | |
| | ME | | 12.54 | | 1.3695 | | 6.39 | |
| | Rev SZF | | | 96.56 | | 96.16 | | 96.85 |
| | ME | | | 2.11 | | 0.01 | | 0.03 |
| 8 | No changes. Used 4 WSEI | | | | | | | |
| 9 | 6 | 97.66 | 97.56 | 97.66 | 97.65 | 97.66 | 97.40 | 97.73 |
| | 17 | 98.12 | 98.19 | 98.11 | 98.14 | 98.12 | 98.07 | 98.12 |
| | 34 | 98.53 | 98.67 | 98.54 | 98.51 | 98.53 | 98.60 | 98.53 |
| | 127 | 99.93 | 99.82 | 99.92 | 99.35 | 99.67 | 99.90 | 99.93 |
| | Given SZF | | 94.82 | | 94.82 | | 94.82 | |
| | ME | | 14.54 | | 3.0963 | | 5.99 | |
| | Rev SZF | | | 96.94 | | 96.63 | | 97.221 |
| | ME | | | 1.31 | | 0.0045 | | 0.0168 |
| 10 | No changes. Used 4 WSEI | | | | | | | |
| 11 | No changes. Used 4 WSEI | | | | | | | |