

CROSS SECTION

RS: 22580.9\*

**Description:**

```
Manning's n values      num=      3
Sta  n Val      Sta  n Val      Sta  n Val
0      .15 2130.77      .15 2330.77      .15
```

CROSS SECTION OUTPUT Profile #Max WS

CROSS SECTION

RS: 22534.6\*

**Description:**

|           |          |         |       |         |       |
|-----------|----------|---------|-------|---------|-------|
| Manning's | n Values |         | num=  | 3       |       |
| Sta       | n Val    | Sta     | n Val | Sta     | n Val |
| 0         | .15      | 2153.85 | .15   | 2353.85 | .15   |

CROSS SECTION OUTPUT Profile #Max WS

CROSS SECTION

RS: 22488.3\*

**Description:**

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|         |        |         |        |         |        |         |        |         |        |
|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| 3521.15 | 671.42 | 3590.8  | 682.93 | 4207.69 | 785.89 | 4406.69 | 791.01 | 4486.29 | 793.46 |
| 4605.69 | 796.49 | 4665.38 | 798.23 |         |        |         |        |         |        |

|                    |             |           |
|--------------------|-------------|-----------|
| Manning's n Values | num=        | 3         |
| Sta n Val          | n Val       | Sta n Val |
| 0 .15 2176.92      | .15 2376.92 | .15       |

|                |         |                       |       |              |        |
|----------------|---------|-----------------------|-------|--------------|--------|
| Bank Sta: Left | Right   | Lengths: Left Channel | Right | Coeff Contr. | Expan. |
| 2176.92        | 2376.92 | 46.31                 | 46.31 | .1           | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |            |                        |            |           |            |
|--------------------|------------|------------------------|------------|-----------|------------|
| E.G. Elev (ft)     | 775.21     | Element                | Left OB    | Channel   | Right OB   |
| Vel Head (ft)      | 0.00       | wt. n-Val.             | 0.150      | 0.150     | 0.150      |
| W.S. Elev (ft)     | 775.21     | Reach Len. (ft)        | 46.31      | 46.31     | 46.31      |
| Crit W.S. (ft)     |            | Flow Area (sq ft)      | 165094.50  | 26633.43  | 165167.10  |
| E.G. Slope (ft/ft) | 0.000002   | Area (sq ft)           | 165094.50  | 26633.43  | 165167.10  |
| Q Total (cfs)      | 88065.25   | Flow (cfs)             | 37245.34   | 8588.86   | 42231.05   |
| Top width (ft)     | 4100.56    | Top width (ft)         | 2133.80    | 200.00    | 1766.75    |
| Vel Total (ft/s)   | 0.25       | Avg. Vel. (ft/s)       | 0.23       | 0.32      | 0.26       |
| Max Chl Dpth (ft)  | 136.13     | Hydr. Depth (ft)       | 77.37      | 133.17    | 93.49      |
| Conv. Total (cfs)  | 70043040.0 | Conv. (cfs)            | 29623230.0 | 6831185.0 | 33588630.0 |
| Length Wtd. (ft)   | 46.31      | wetted Per. (ft)       | 2141.60    | 202.15    | 1775.73    |
| Min Ch El (ft)     | 639.08     | Shear (lb/sq ft)       | 0.01       | 0.01      | 0.01       |
| Alpha              | 1.03       | Stream Power (lb/ft s) | 0.00       | 0.00      | 0.00       |
| Frctn Loss (ft)    | 0.00       | Cum volume (acre-ft)   | 456006.00  | 24515.41  | 171153.00  |
| C & E Loss (ft)    |            | Cum SA (acres)         | 3720.16    | 145.72    | 1359.90    |

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 22442

## INPUT

## Description:

|                                              |      |    |
|----------------------------------------------|------|----|
| Station Elevation Data                       | num= | 20 |
| Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev |      |    |
| 0 780 450 730 625 710 775 700 900 700        |      |    |
| 1100 710 1200 710 1400 690 1500 667 1600 660 |      |    |
| 1800 659 2200 650 2250 639 2340 639 2400 650 |      |    |
| 3000 660 3200 663 3400 670 4000 790 4400 800 |      |    |

|                    |          |           |
|--------------------|----------|-----------|
| Manning's n Values | num=     | 3         |
| Sta n Val          | n Val    | Sta n Val |
| 0 .15 2200         | .15 2400 | .15       |

|                |       |                       |       |              |        |
|----------------|-------|-----------------------|-------|--------------|--------|
| Bank Sta: Left | Right | Lengths: Left Channel | Right | Coeff Contr. | Expan. |
| 2200           | 2400  | 449                   | 449   | .1           | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |            |                        |            |           |            |
|--------------------|------------|------------------------|------------|-----------|------------|
| E.G. Elev (ft)     | 775.21     | Element                | Left OB    | Channel   | Right OB   |
| Vel Head (ft)      | 0.00       | wt. n-Val.             | 0.150      | 0.150     | 0.150      |
| W.S. Elev (ft)     | 775.20     | Reach Len. (ft)        | 449.00     | 449.00    | 449.00     |
| Crit W.S. (ft)     |            | Flow Area (sq ft)      | 166654.00  | 26635.96  | 144274.90  |
| E.G. Slope (ft/ft) | 0.000002   | Area (sq ft)           | 166654.00  | 26635.96  | 144274.90  |
| Q Total (cfs)      | 88064.16   | Flow (cfs)             | 39723.05   | 9083.59   | 39257.52   |
| Top width (ft)     | 3882.87    | Top width (ft)         | 2156.84    | 200.00    | 1526.02    |
| Vel Total (ft/s)   | 0.26       | Avg. Vel. (ft/s)       | 0.24       | 0.34      | 0.27       |
| Max Chl Dpth (ft)  | 136.20     | Hydr. Depth (ft)       | 77.27      | 133.18    | 94.54      |
| Conv. Total (cfs)  | 66228440.0 | Conv. (cfs)            | 29873630.0 | 6831296.0 | 29523520.0 |
| Length Wtd. (ft)   | 449.00     | wetted Per. (ft)       | 2165.03    | 202.20    | 1536.67    |
| Min Ch El (ft)     | 639.00     | Shear (lb/sq ft)       | 0.01       | 0.01      | 0.01       |
| Alpha              | 1.04       | Stream Power (lb/ft s) | 0.00       | 0.00      | 0.00       |
| Frctn Loss (ft)    | 0.00       | Cum volume (acre-ft)   | 455829.70  | 24487.10  | 170988.50  |
| C & E Loss (ft)    |            | Cum SA (acres)         | 3717.88    | 145.50    | 1358.15    |

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 21993

## INPUT

## Description:

|                                              |      |    |
|----------------------------------------------|------|----|
| Station Elevation Data                       | num= | 13 |
| Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev |      |    |
| 0 756 150 756 950 700 1150 682 1200 681      |      |    |
| 1350 670 1425 660 2600 650 2600 638 2700 638 |      |    |
| 2800 650 3450 660 4000 762                   |      |    |

|                    |          |           |
|--------------------|----------|-----------|
| Manning's n Values | num=     | 3         |
| Sta n Val          | n Val    | Sta n Val |
| 0 .15 2600         | .15 2800 | .15       |

|                |       |                       |       |              |        |
|----------------|-------|-----------------------|-------|--------------|--------|
| Bank Sta: Left | Right | Lengths: Left Channel | Right | Coeff Contr. | Expan. |
| 2600           | 2800  | 686                   | 686   | .1           | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |            |                        |            |           |            |
|--------------------|------------|------------------------|------------|-----------|------------|
| E.G. Elev (ft)     | 775.21     | Element                | Left OB    | Channel   | Right OB   |
| Vel Head (ft)      | 0.00       | wt. n-Val.             | 0.150      | 0.150     | 0.150      |
| W.S. Elev (ft)     | 775.20     | Reach Len. (ft)        | 686.00     | 686.00    | 686.00     |
| Crit W.S. (ft)     |            | Flow Area (sq ft)      | 226630.70  | 26840.82  | 113444.90  |
| E.G. Slope (ft/ft) | 0.000001   | Area (sq ft)           | 226630.70  | 26840.82  | 113444.90  |
| Q Total (cfs)      | 88053.82   | Flow (cfs)             | 52494.23   | 8002.89   | 27556.71   |
| Top width (ft)     | 4000.00    | Top width (ft)         | 2600.00    | 200.00    | 1200.00    |
| Vel Total (ft/s)   | 0.24       | Avg. Vel. (ft/s)       | 0.23       | 0.30      | 0.24       |
| Max Chl Dpth (ft)  | 137.20     | Hydr. Depth (ft)       | 87.17      | 134.20    | 94.54      |
| Conv. Total (cfs)  | 73597480.0 | Conv. (cfs)            | 43875920.0 | 6689005.0 | 23032550.0 |
| Length Wtd. (ft)   | 686.00     | wetted Per. (ft)       | 2623.09    | 212.72    | 1222.66    |
| Min Ch El (ft)     | 638.00     | Shear (lb/sq ft)       | 0.01       | 0.01      | 0.01       |
| Alpha              | 1.02       | Stream Power (lb/ft s) | 0.00       | 0.00      | 0.00       |



|                 |      |                      |              |           |          |           |
|-----------------|------|----------------------|--------------|-----------|----------|-----------|
| Frctn Loss (ft) | 0.00 | Cum Volume (acre-ft) | TXU_Rev1.rep | 453802.80 | 24211.49 | 169660.30 |
| C & E Loss (ft) |      | Cum SA (acres)       |              | 3693.37   | 143.44   | 1344.10   |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 21307

## INPUT

## Description:

|         |           |      |      |      |
|---------|-----------|------|------|------|
| Station | Elevation | Data | num= | 19   |
| Sta     | Elev      | Sta  | Elev | Sta  |
| 0       | 780       | 400  | 740  | 850  |
| 1200    | 695       | 1400 | 696  | 1600 |
| 2600    | 660       | 3600 | 650  | 3825 |
| 4200    | 642       | 4450 | 660  | 5000 |

|                    |       |      |
|--------------------|-------|------|
| Manning's n Values | num=  | 3    |
| Sta                | n Val | Sta  |
| 0                  | .15   | 3825 |
|                    |       | 4200 |

|           |      |       |          |              |       |       |        |        |
|-----------|------|-------|----------|--------------|-------|-------|--------|--------|
| Bank Sta: | Left | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|           | 3825 | 4200  |          | 97.5         | 97.5  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |            |                        |            |            |            |
|--------------------|------------|------------------------|------------|------------|------------|
| E.G. Elev (ft)     | 775.20     | Element                | Left OB    | Channel    | Right OB   |
| Vel Head (ft)      | 0.00       | wt. n-Val.             | 0.150      | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20     | Reach Len. (ft)        | 97.50      | 97.50      | 97.50      |
| Crit W.S. (ft)     |            | Flow Area (sq ft)      | 338555.70  | 51313.79   | 64568.88   |
| E.G. Slope (ft/ft) | 0.000001   | Area (sq ft)           | 338555.70  | 51313.79   | 64568.88   |
| Q Total (cfs)      | 88035.44   | Flow (cfs)             | 64859.16   | 13007.53   | 10168.74   |
| Top width (ft)     | 5108.14    | Top width (ft)         | 3777.03    | 375.00     | 956.10     |
| Vel Total (ft/s)   | 0.19       | Avg. Vel. (ft/s)       | 0.19       | 0.25       | 0.16       |
| Max Chl Dpth (ft)  | 140.20     | Hydr. Depth (ft)       | 89.64      | 136.84     | 67.53      |
| Conv. Total (cfs)  | 91095540.0 | Conv. (cfs)            | 67113660.0 | 13459670.0 | 10522210.0 |
| Length wtd. (ft)   | 97.50      | wetted Per. (ft)       | 3781.94    | 376.61     | 967.73     |
| Min Ch El (ft)     | 635.00     | Shear (lb/sq ft)       | 0.01       | 0.01       | 0.00       |
| Alpha              | 1.05       | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00       | Cum Volume (acre-ft)   | 449352.40  | 23596.08   | 168258.50  |
| C & E Loss (ft)    |            | Cum SA (acres)         | 3643.15    | 138.91     | 1327.12    |

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 21209.5\*

## INPUT

## Description:

|         |           |         |        |         |
|---------|-----------|---------|--------|---------|
| Station | Elevation | Data    | num=   | 27      |
| Sta     | Elev      | Sta     | Elev   | Sta     |
| 0       | 778.5     | 417.21  | 739.49 | 756.65  |
| 1043.03 | 699.97    | 1069.1  | 694.42 | 1251.63 |
| 1877.45 | 687.11    | 2149.56 | 675.74 | 2294.66 |
| 3754.9  | 649.9     | 3989.58 | 649.33 | 4052.08 |
| 4383.33 | 642.08    | 4483.33 | 649.27 | 4633.33 |
| 5233.33 | 769.19    | 5483.33 | 779.25 |         |

|                    |       |         |
|--------------------|-------|---------|
| Manning's n Values | num=  | 3       |
| Sta                | n Val | Sta     |
| 0                  | .15   | 3989.58 |
|                    |       | 4383.33 |

|           |         |         |          |              |       |       |        |        |
|-----------|---------|---------|----------|--------------|-------|-------|--------|--------|
| Bank Sta: | Left    | Right   | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|           | 3989.58 | 4383.33 |          | 97.5         | 97.5  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |            |                        |            |            |            |
|--------------------|------------|------------------------|------------|------------|------------|
| E.G. Elev (ft)     | 775.20     | Element                | Left OB    | Channel    | Right OB   |
| Vel Head (ft)      | 0.00       | wt. n-Val.             | 0.150      | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20     | Reach Len. (ft)        | 97.50      | 97.50      | 97.50      |
| Crit W.S. (ft)     |            | Flow Area (sq ft)      | 353776.20  | 53886.07   | 64903.49   |
| E.G. Slope (ft/ft) | 0.000001   | Area (sq ft)           | 353776.20  | 53886.07   | 64903.49   |
| Q Total (cfs)      | 88032.45   | Flow (cfs)             | 65251.14   | 13176.17   | 9605.15    |
| Top width (ft)     | 5347.51    | Top width (ft)         | 3954.32    | 393.75     | 999.44     |
| Vel Total (ft/s)   | 0.19       | Avg. Vel. (ft/s)       | 0.18       | 0.24       | 0.15       |
| Max Chl Dpth (ft)  | 140.53     | Hydr. Depth (ft)       | 89.47      | 136.85     | 64.94      |
| Conv. Total (cfs)  | 94507090.0 | Conv. (cfs)            | 70050250.0 | 14145250.0 | 10311590.0 |
| Length wtd. (ft)   | 97.50      | wetted Per. (ft)       | 3958.79    | 395.03     | 1010.50    |
| Min Ch El (ft)     | 634.67     | Shear (lb/sq ft)       | 0.00       | 0.01       | 0.00       |
| Alpha              | 1.05       | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00       | Cum Volume (acre-ft)   | 448577.60  | 23478.35   | 168113.60  |
| C & E Loss (ft)    |            | Cum SA (acres)         | 3634.50    | 138.05     | 1324.93    |

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 21112.\*

## INPUT

## Description:

|         |           |         |        |         |
|---------|-----------|---------|--------|---------|
| Station | Elevation | Data    | num=   | 27      |
| Sta     | Elev      | Sta     | Elev   | Sta     |
| 0       | 777       | 434.42  | 738.98 | 787.86  |
| 1086.06 | 699.95    | 1113.21 | 694.83 | 1303.27 |
| 1954.9  | 686.22    | 2238.24 | 675.22 | 2389.32 |
| 3909.8  | 649.8     | 4154.17 | 648.67 | 4229.17 |
| 4566.67 | 642.17    | 4666.67 | 649.33 | 4816.67 |
| 5416.67 | 766.72    | 5666.67 | 778.5  |         |

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Manning's n Values num= 3  
 Sta n Val Sta n Val  
 0 .15 4154.17 .15 4566.67 .15

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 4154.17 4566.67 97.5 97.5 .1 .3

CROSS SECTION OUTPUT Profile #Max WS

|                    | 775.20     | Element                | Left OB    | Channel    | Right OB   |
|--------------------|------------|------------------------|------------|------------|------------|
| E.G. Elev (ft)     | 775.20     | wt. n-Val.             | 0.150      | 0.150      | 0.150      |
| Vel Head (ft)      | 0.00       | Reach Len. (ft)        | 97.50      | 97.50      | 97.50      |
| W.S. Elev (ft)     | 775.20     | Flow Area (sq ft)      | 369082.10  | 56469.55   | 65294.97   |
| Crit W.S. (ft)     | 775.20     | Area (sq ft)           | 369082.10  | 56469.55   | 65294.97   |
| E.G. Slope (ft/ft) | 0.000001   | Flow (cfs)             | 65539.70   | 13318.61   | 9171.05    |
| Q Total (cfs)      | 88029.34   | Top width (ft)         | 4133.64    | 412.50     | 1030.04    |
| Top width (ft)     | 5576.18    | Avg. Vel. (ft/s)       | 0.18       | 0.24       | 0.14       |
| Vel Total (ft/s)   | 0.18       | Hydr. Depth (ft)       | 89.29      | 136.90     | 63.39      |
| Max Chl Dpth (ft)  | 140.87     | Conv. (cfs)            | 72990710.0 | 14832760.0 | 10213680.0 |
| Conv. Total (cfs)  | 98037140.0 | wetted Per. (ft)       | 4137.73    | 413.38     | 1040.60    |
| Length wtd. (ft)   | 97.50      | Shear (lb/sq ft)       | 0.00       | 0.01       | 0.00       |
| Min Ch El (ft)     | 634.33     | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00       |
| Alpha              | 1.06       | Cum Volume (acre-ft)   | 447768.60  | 23354.85   | 167967.90  |
| Frctn Loss (ft)    | 0.00       | Cum SA (acres)         | 3625.45    | 137.15     | 1322.66    |
| C & E Loss (ft)    | 0.00       |                        |            |            |            |

CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 21014.5\*

INPUT

Description:

| Station | Elevation | Data    | num=   | 27      | Elev   | Sta     | Elev   | Sta     | Elev   | Sta | Elev | Sta | Elev |
|---------|-----------|---------|--------|---------|--------|---------|--------|---------|--------|-----|------|-----|------|
| 0       | 775.5     | 451.63  | 738.47 | 819.07  | 711.05 | 959.72  | 701.45 | 1116.92 | 700    |     |      |     |      |
| 1129.08 | 699.92    | 1157.31 | 695.25 | 1354.9  | 694.77 | 1580.72 | 694.13 | 1806.54 | 689.73 |     |      |     |      |
| 2032.35 | 685.33    | 2326.91 | 674.7  | 2483.99 | 669.66 | 2935.62 | 661.19 | 3723.06 | 654.27 |     |      |     |      |
| 4064.71 | 649.71    | 4318.75 | 648    | 4406.25 | 640    | 4450    | 634    | 4550    | 634    |     |      |     |      |
| 4750    | 642.25    | 4850    | 649.4  | 5000    | 663.5  | 5350    | 730    | 5550    | 762.4  |     |      |     |      |
| 5600    | 764.25    | 5850    | 777.75 |         |        |         |        |         |        |     |      |     |      |

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 0 .15 4318.75 .15 4750 .15

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 4318.75 4750 97.5 97.5 97.5 .1 .3

CROSS SECTION OUTPUT Profile #Max WS

|                    | 775.20      | Element                | Left OB    | Channel    | Right OB   |
|--------------------|-------------|------------------------|------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | wt. n-Val.             | 0.150      | 0.150      | 0.150      |
| Vel Head (ft)      | 0.00        | Reach Len. (ft)        | 97.50      | 97.50      | 97.50      |
| W.S. Elev (ft)     | 775.20      | Flow Area (sq ft)      | 384455.90  | 59062.63   | 65714.80   |
| Crit W.S. (ft)     | 775.20      | Area (sq ft)           | 384455.90  | 59062.63   | 65714.80   |
| E.G. Slope (ft/ft) | 0.000001    | Flow (cfs)             | 65765.16   | 13445.20   | 8815.80    |
| Q Total (cfs)      | 88026.17    | Top width (ft)         | 4315.13    | 431.25     | 1052.84    |
| Top width (ft)     | 5799.22     | Avg. Vel. (ft/s)       | 0.17       | 0.23       | 0.13       |
| Vel Total (ft/s)   | 0.17        | Hydr. Depth (ft)       | 89.09      | 136.96     | 62.42      |
| Max Chl Dpth (ft)  | 141.20      | Conv. (cfs)            | 75927800.0 | 15522880.0 | 10178100.0 |
| Conv. Total (cfs)  | 101628800.0 | wetted Per. (ft)       | 4318.88    | 432.19     | 1062.95    |
| Length wtd. (ft)   | 97.50       | Shear (lb/sq ft)       | 0.00       | 0.01       | 0.00       |
| Min Ch El (ft)     | 634.00      | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00       |
| Alpha              | 1.06        | Cum Volume (acre-ft)   | 446925.30  | 23225.55   | 167821.30  |
| Frctn Loss (ft)    | 0.00        | Cum SA (acres)         | 3615.99    | 136.21     | 1320.33    |
| C & E Loss (ft)    | 0.00        |                        |            |            |            |

CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 20917.\*

INPUT

Description:

| Station | Elevation | Data    | num=   | 27      | Elev   | Sta     | Elev   | Sta     | Elev   | Sta | Elev | Sta | Elev |
|---------|-----------|---------|--------|---------|--------|---------|--------|---------|--------|-----|------|-----|------|
| 0       | 774       | 468.85  | 737.96 | 850.29  | 711.05 | 996.3   | 701.94 | 1159.48 | 700    |     |      |     |      |
| 1172.11 | 699.9     | 1201.42 | 695.67 | 1406.54 | 694.7  | 1640.96 | 693.5  | 1875.38 | 688.97 |     |      |     |      |
| 2109.8  | 684.43    | 2415.59 | 674.17 | 2578.65 | 669.55 | 3047.49 | 661.59 | 3864.94 | 654.68 |     |      |     |      |
| 4219.61 | 649.61    | 4483.33 | 647.33 | 4583.33 | 640    | 4633.33 | 633.67 | 4733.33 | 633.67 |     |      |     |      |
| 4933.33 | 642.33    | 5033.33 | 649.47 | 5183.33 | 664.67 | 5533.33 | 730    | 5733.33 | 759.87 |     |      |     |      |
| 5783.33 | 761.78    | 6033.33 | 777    |         |        |         |        |         |        |     |      |     |      |

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 0 .15 4483.33 .15 4933.33 .15

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 4483.33 4933.33 97.5 97.5 97.5 .1 .3

CROSS SECTION OUTPUT Profile #Max WS

|                    | 775.20      | Element           | Left OB    | Channel    | Right OB   |
|--------------------|-------------|-------------------|------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | wt. n-Val.        | 0.150      | 0.150      | 0.150      |
| Vel Head (ft)      | 0.00        | Reach Len. (ft)   | 97.50      | 97.50      | 97.50      |
| W.S. Elev (ft)     | 775.20      | Flow Area (sq ft) | 399914.70  | 61666.18   | 66156.52   |
| Crit W.S. (ft)     | 775.20      | Area (sq ft)      | 399914.70  | 61666.18   | 66156.52   |
| E.G. Slope (ft/ft) | 0.000001    | Flow (cfs)        | 65983.38   | 13538.61   | 8500.95    |
| Q Total (cfs)      | 88022.93    | Top width (ft)    | 4483.33    | 450.00     | 1070.49    |
| Top width (ft)     | 6003.82     | Avg. Vel. (ft/s)  | 0.16       | 0.22       | 0.13       |
| Vel Total (ft/s)   | 0.17        | Hydr. Depth (ft)  | 89.20      | 137.04     | 61.80      |
| Max Chl Dpth (ft)  | 141.53      | Conv. (cfs)       | 79034800.0 | 16216530.0 | 10182420.0 |
| Conv. Total (cfs)  | 105433800.0 |                   |            |            |            |

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|                  |        |                        |              |          |           |
|------------------|--------|------------------------|--------------|----------|-----------|
| Length Wtd. (ft) | 97.50  | Wetted Per. (ft)       | TXU_Rev1.rep |          |           |
| Min Ch El (ft)   | 633.67 | Shear (lb/sq ft)       | 4487.94      | 450.85   | 1080.22   |
| Alpha            | 1.06   | Stream Power (lb/ft s) | 0.00         | 0.01     | 0.00      |
| Frctn Loss (ft)  | 0.00   | Cum Volume (acre-ft)   | 446047.50    | 23090.44 | 167673.70 |
| C & E Loss (ft)  |        | Cum SA (acres)         | 3606.15      | 135.22   | 1317.95   |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 20819.5\*

## INPUT

Description:  
Station Elevation Data num= 27

| Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   |
|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| 0       | 772.5  | 486.06  | 737.45 | 881.5   | 711.04 | 1032.87 | 702.42 | 1202.05 | 700    |
| 1215.14 | 699.87 | 1245.52 | 696.08 | 1458.17 | 694.62 | 1701.2  | 692.88 | 1944.23 | 688.21 |
| 2187.25 | 683.54 | 2504.27 | 673.65 | 2673.31 | 669.44 | 3159.37 | 661.99 | 4006.82 | 655.1  |
| 4374.51 | 649.51 | 4647.92 | 646.67 | 4760.42 | 640    | 4816.67 | 633.33 | 4916.67 | 633.33 |
| 5116.67 | 642.42 | 5216.67 | 649.53 | 5366.67 | 665.83 | 5716.67 | 730    | 5916.67 | 757.33 |
| 5966.67 | 759.31 | 6216.67 | 776.25 |         |        |         |        |         |        |

Manning's n Values num= 3

| Sta | n Val | Sta     | n Val |
|-----|-------|---------|-------|
| 0   | .15   | 4647.92 | .15   |
|     |       | 5116.67 | .15   |

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
4647.92 5116.67 97.5 97.5 .1 .3

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |            |            |            |
|--------------------|-------------|------------------------|------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB    | Channel    | Right OB   |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150      | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 97.50      | 97.50      | 97.50      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 415427.90  | 64280.87   | 66617.77   |
| E.G. Slope (ft/ft) | 0.000001    | Area (sq ft)           | 415427.90  | 64280.87   | 66617.77   |
| Q Total (cfs)      | 88019.51    | Flow (cfs)             | 66178.03   | 13617.70   | 8223.78    |
| Top width (ft)     | 6201.22     | Top width (ft)         | 4647.92    | 468.75     | 1084.55    |
| Vel Total (ft/s)   | 0.16        | Avg. Vel. (ft/s)       | 0.16       | 0.21       | 0.12       |
| Max Chl Dpth (ft)  | 141.87      | Hydr. Depth (ft)       | 89.38      | 137.13     | 61.42      |
| Conv. Total (cfs)  | 109327300.0 | Conv. (cfs)            | 82198420.0 | 16914280.0 | 10214590.0 |
| Length wtd. (ft)   | 97.50       | Wetted Per. (ft)       | 4653.72    | 469.55     | 1093.96    |
| Min Ch El (ft)     | 633.33      | Shear (lb/sq ft)       | 0.00       | 0.01       | 0.00       |
| Alpha              | 1.06        | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 445135.00  | 22949.48   | 167525.10  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 3595.93    | 134.19     | 1315.54    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 20722.\*

## INPUT

Description:  
Station Elevation Data num= 27

| Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   |
|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| 0       | 771    | 503.27  | 736.94 | 912.72  | 711.04 | 1069.44 | 702.9  | 1244.61 | 700    |
| 1258.17 | 699.85 | 1289.62 | 696.5  | 1509.8  | 694.55 | 1761.44 | 692.25 | 2013.07 | 687.45 |
| 2264.71 | 682.65 | 2592.94 | 673.13 | 2767.97 | 669.32 | 3271.24 | 662.38 | 4148.71 | 655.51 |
| 4529.41 | 649.41 | 4812.5  | 646    | 4937.5  | 640    | 5000    | 633    | 5100    | 633    |
| 5300    | 642.5  | 5400    | 649.6  | 5550    | 667    | 5900    | 730    | 6100    | 754.8  |
| 6150    | 756.83 | 6400    | 775.5  |         |        |         |        |         |        |

Manning's n Values num= 3

| Sta | n Val | Sta    | n Val |
|-----|-------|--------|-------|
| 0   | .15   | 4812.5 | .15   |
|     |       | 5300   | .15   |

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
4812.5 5300 97.5 97.5 .1 .3

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |            |            |            |
|--------------------|-------------|------------------------|------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB    | Channel    | Right OB   |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150      | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 97.50      | 97.50      | 97.50      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 431012.70  | 66905.27   | 67087.02   |
| E.G. Slope (ft/ft) | 0.000001    | Area (sq ft)           | 431012.70  | 66905.27   | 67087.02   |
| Q Total (cfs)      | 88015.89    | Flow (cfs)             | 66350.66   | 13688.76   | 7976.47    |
| Top width (ft)     | 6396.03     | Top width (ft)         | 4812.50    | 487.50     | 1096.03    |
| Vel Total (ft/s)   | 0.16        | Avg. Vel. (ft/s)       | 0.15       | 0.20       | 0.12       |
| Max Chl Dpth (ft)  | 142.20      | Hydr. Depth (ft)       | 89.56      | 137.24     | 61.21      |
| Conv. Total (cfs)  | 113266200.0 | Conv. (cfs)            | 85385610.0 | 17615850.0 | 10264790.0 |
| Length wtd. (ft)   | 97.50       | Wetted Per. (ft)       | 4819.52    | 488.26     | 1105.17    |
| Min Ch El (ft)     | 633.00      | Shear (lb/sq ft)       | 0.00       | 0.01       | 0.00       |
| Alpha              | 1.06        | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 444187.70  | 22802.67   | 167375.50  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 3585.34    | 133.12     | 1313.10    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 20624.5\*

## INPUT



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Description:  
 Station Elevation Data num= 27  

| Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   |
|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| 0       | 769.5  | 520.48  | 736.43 | 943.93  | 711.03 | 1106.02 | 703.39 | 1287.18 | 700    |
| 1301.2  | 699.82 | 1333.73 | 696.92 | 1561.44 | 694.47 | 1821.68 | 691.63 | 2081.92 | 686.69 |
| 2342.16 | 681.76 | 2681.62 | 672.61 | 2862.64 | 669.21 | 3383.12 | 662.78 | 4290.59 | 655.93 |
| 4684.31 | 649.31 | 4977.08 | 645.33 | 5114.58 | 640    | 5183.33 | 632.67 | 5283.33 | 632.67 |
| 5483.33 | 642.58 | 5583.33 | 649.67 | 5733.33 | 668.17 | 6083.33 | 730    | 6283.33 | 752.27 |
| 6333.33 | 754.36 | 6583.33 | 774.75 |         |        |         |        |         |        |

  
 Manning's n Values num= 3  

| Sta | n Val | Sta     | n Val | Sta     | n Val |
|-----|-------|---------|-------|---------|-------|
| 0   | .15   | 4977.08 | .15   | 5483.33 | .15   |

  
 Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 4977.08 5483.33 97.5 97.5 97.5 .1 .3

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        | Left OB    | Channel    | Right OB   |
|--------------------|-------------|------------------------|------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | 0.150      | 0.150      | 0.150      |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 97.50      | 97.50      | 97.50      |
| w.s. Elev (ft)     | 775.20      | Reach Len. (ft)        |            |            |            |
| Crit w.s. (ft)     |             | Flow Area (sq ft)      | 446640.70  | 69540.05   | 67561.55   |
| E.G. Slope (ft/ft) | 0.000001    | Area (sq ft)           | 446640.70  | 69540.05   | 67561.55   |
| Q Total (cfs)      | 88012.23    | Flow (cfs)             | 66486.25   | 13750.72   | 7775.25    |
| Top width (ft)     | 6583.33     | Top width (ft)         | 4977.08    | 506.25     | 1100.00    |
| Vel Total (ft/s)   | 0.15        | Avg. Vel. (ft/s)       | 0.15       | 0.20       | 0.12       |
| Max Chl Dpth (ft)  | 142.53      | Hydr. Depth (ft)       | 89.74      | 137.36     | 61.42      |
| Conv. Total (cfs)  | 117268400.0 | Conv. (cfs)            | 88587000.0 | 18321610.0 | 10359830.0 |
| Length wtd. (ft)   | 97.50       | Wetted Per. (ft)       | 4985.36    | 506.99     | 1109.37    |
| Min Ch El (ft)     | 632.67      | Shear (lb/sq ft)       | 0.00       | 0.00       | 0.00       |
| Alpha              | 1.06        | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 443205.50  | 22649.96   | 167224.80  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 3574.38    | 132.01     | 1310.64    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 20527.\*

INPUT  
 Description:  
 Station Elevation Data num= 27  

| Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   |
|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| 0       | 768    | 537.69  | 735.92 | 975.14  | 711.02 | 1142.59 | 703.87 | 1329.74 | 700    |
| 1344.23 | 699.8  | 1377.83 | 697.33 | 1613.07 | 694.4  | 1881.92 | 691    | 2150.76 | 685.93 |
| 2419.61 | 680.87 | 2770.29 | 672.09 | 2957.3  | 669.1  | 3494.99 | 663.18 | 4432.47 | 656.34 |
| 4839.22 | 649.22 | 5141.67 | 644.67 | 5291.67 | 640    | 5366.67 | 632.33 | 5466.67 | 632.33 |
| 5666.67 | 642.67 | 5766.67 | 649.73 | 5916.67 | 669.33 | 6266.67 | 730    | 6466.67 | 749.73 |
| 6516.67 | 751.89 | 6766.67 | 774    |         |        |         |        |         |        |

  
 Manning's n Values num= 3  

| Sta | n Val | Sta     | n Val | Sta     | n Val |
|-----|-------|---------|-------|---------|-------|
| 0   | .15   | 5141.67 | .15   | 5666.67 | .15   |

  
 Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 5141.67 5666.67 97.5 97.5 97.5 .1 .3

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        | Left OB    | Channel    | Right OB   |
|--------------------|-------------|------------------------|------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | 0.150      | 0.150      | 0.150      |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 97.50      | 97.50      | 97.50      |
| w.s. Elev (ft)     | 775.20      | Reach Len. (ft)        |            |            |            |
| Crit w.s. (ft)     |             | Flow Area (sq ft)      | 462334.50  | 72185.95   | 68041.30   |
| E.G. Slope (ft/ft) | 0.000001    | Area (sq ft)           | 462334.50  | 72185.95   | 68041.30   |
| Q Total (cfs)      | 88008.52    | Flow (cfs)             | 66600.65   | 13806.12   | 7601.76    |
| Top width (ft)     | 6766.67     | Top width (ft)         | 5141.67    | 525.00     | 1100.00    |
| Vel Total (ft/s)   | 0.15        | Avg. Vel. (ft/s)       | 0.14       | 0.19       | 0.11       |
| Max Chl Dpth (ft)  | 142.87      | Hydr. Depth (ft)       | 89.92      | 137.50     | 61.86      |
| Conv. Total (cfs)  | 121321000.0 | Conv. (cfs)            | 91809910.0 | 19031920.0 | 10479130.0 |
| Length wtd. (ft)   | 97.50       | Wetted Per. (ft)       | 5151.25    | 525.73     | 1109.94    |
| Min Ch El (ft)     | 632.33      | Shear (lb/sq ft)       | 0.00       | 0.00       | 0.00       |
| Alpha              | 1.06        | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 442188.20  | 22491.35   | 167073.00  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 3563.06    | 130.86     | 1308.18    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 20429.5\*

INPUT  
 Description:  
 Station Elevation Data num= 27  

| Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   |
|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| 0       | 766.5  | 554.9   | 735.41 | 1006.36 | 711.02 | 1179.17 | 704.35 | 1372.31 | 700    |
| 1387.25 | 699.77 | 1421.94 | 697.75 | 1664.71 | 694.32 | 1942.16 | 690.38 | 2219.61 | 685.18 |
| 2497.06 | 679.98 | 2858.97 | 671.57 | 3051.96 | 668.99 | 3606.86 | 663.58 | 4574.35 | 656.76 |
| 4994.12 | 649.12 | 5306.25 | 644    | 5468.75 | 640    | 5550    | 632    | 5650    | 632    |
| 5850    | 642.75 | 5950    | 649.8  | 6100    | 670.5  | 6450    | 730    | 6650    | 747.2  |
| 6700    | 749.42 | 6950    | 773.25 |         |        |         |        |         |        |

  
 Manning's n Values num= 3  

| Sta | n Val | Sta     | n Val | Sta  | n Val |
|-----|-------|---------|-------|------|-------|
| 0   | .15   | 5306.25 | .15   | 5850 | .15   |

  
 Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 5306.25 5850 97.5 97.5 97.5 .1 .3

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## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |            |            |            |
|--------------------|-------------|------------------------|------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB    | Channel    | Right OB   |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150      | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 97.50      | 97.50      | 97.50      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 478076.10  | 74841.57   | 68516.42   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 478076.10  | 74841.57   | 68516.42   |
| Q Total (cfs)      | 88004.70    | Flow (cfs)             | 66708.44   | 13858.66   | 7437.61    |
| Top width (ft)     | 6950.00     | Top width (ft)         | 5306.25    | 543.75     | 1100.00    |
| Vel Total (ft/s)   | 0.14        | Avg. Vel. (ft/s)       | 0.14       | 0.19       | 0.11       |
| Max Chl Dpth (ft)  | 143.20      | Hydr. Depth (ft)       | 90.10      | 137.64     | 62.29      |
| Conv. Total (cfs)  | 125392500.0 | Conv. (cfs)            | 95048790.0 | 19746360.0 | 10597400.0 |
| Length wtd. (ft)   | 97.50       | wetted Per. (ft)       | 5317.15    | 544.48     | 1110.57    |
| Min Ch El (ft)     | 632.00      | Shear (lb/sq ft)       | 0.00       | 0.00       | 0.00       |
| Alpha              | 1.05        | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 441135.70  | 22326.81   | 166920.20  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 3551.37    | 129.66     | 1305.72    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 20332.\*

## INPUT

## Description:

| Station Elevation Data |        |         | num=   | 27      |        |         |        |         |        |  |
|------------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|--|
| Sta                    | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   |  |
| 0                      | 765    | 572.11  | 734.9  | 1037.57 | 711.01 | 1215.74 | 704.84 | 1414.87 | 700    |  |
| 1430.28                | 699.75 | 1466.04 | 698.17 | 1716.34 | 694.25 | 2002.4  | 689.75 | 2288.45 | 684.42 |  |
| 2574.51                | 679.09 | 2947.65 | 671.04 | 3146.62 | 668.87 | 3718.74 | 663.97 | 4716.24 | 657.17 |  |
| 5149.02                | 649.02 | 5470.83 | 643.33 | 5645.83 | 640    | 5733.33 | 631.67 | 5833.33 | 631.67 |  |
| 6033.33                | 642.83 | 6133.33 | 649.87 | 6283.33 | 671.67 | 6633.33 | 730    | 6833.33 | 744.67 |  |
| 6883.33                | 746.94 | 7133.33 | 772.5  |         |        |         |        |         |        |  |

## Manning's n Values

| Sta | n Val | Sta     | n Val | Sta     | n Val |
|-----|-------|---------|-------|---------|-------|
| 0   | .15   | 5470.83 | .15   | 6033.33 | .15   |

| Bank Sta: | Left    | Right   | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|---------|---------|----------|------|---------|-------|-------|--------|--------|
|           | 5470.83 | 6033.33 |          | 97.5 | 97.5    | 97.5  | .1    |        | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |            |            |            |
|--------------------|-------------|------------------------|------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB    | Channel    | Right OB   |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150      | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 97.50      | 97.50      | 97.50      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 493903.00  | 77507.68   | 68993.17   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 493903.00  | 77507.68   | 68993.17   |
| Q Total (cfs)      | 88000.72    | Flow (cfs)             | 66811.18   | 13907.28   | 7282.26    |
| Top width (ft)     | 7133.33     | Top width (ft)         | 5470.83    | 562.50     | 1100.00    |
| Vel Total (ft/s)   | 0.14        | Avg. Vel. (ft/s)       | 0.14       | 0.18       | 0.11       |
| Max Chl Dpth (ft)  | 143.53      | Hydr. Depth (ft)       | 90.28      | 137.79     | 62.72      |
| Conv. Total (cfs)  | 129497400.0 | Conv. (cfs)            | 98315930.0 | 20465250.0 | 10716200.0 |
| Length wtd. (ft)   | 97.50       | wetted Per. (ft)       | 5483.07    | 563.24     | 1111.25    |
| Min Ch El (ft)     | 631.67      | Shear (lb/sq ft)       | 0.00       | 0.00       | 0.00       |
| Alpha              | 1.05        | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 440047.90  | 22156.30   | 166766.30  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 3539.31    | 128.42     | 1303.26    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 20234.5\*

## INPUT

## Description:

| Station Elevation Data |        |         | num=   | 27      |        |         |        |         |        |  |
|------------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|--|
| Sta                    | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   |  |
| 0                      | 763.5  | 589.32  | 734.39 | 1068.79 | 711.01 | 1252.31 | 705.32 | 1457.44 | 700    |  |
| 1473.31                | 699.72 | 1510.14 | 698.58 | 1767.97 | 694.17 | 2062.64 | 689.13 | 2357.3  | 683.66 |  |
| 2651.96                | 678.19 | 3036.32 | 670.52 | 3241.29 | 668.76 | 3830.61 | 664.37 | 4858.12 | 657.59 |  |
| 5303.92                | 648.92 | 5635.42 | 642.67 | 5822.92 | 640    | 5916.67 | 631.33 | 6016.67 | 631.33 |  |
| 6216.67                | 642.92 | 6316.67 | 649.93 | 6466.67 | 672.83 | 6816.67 | 730    | 7016.67 | 742.13 |  |
| 7066.67                | 744.47 | 7316.67 | 771.75 |         |        |         |        |         |        |  |

## Manning's n Values

| Sta | n Val | Sta     | n Val | Sta     | n Val |
|-----|-------|---------|-------|---------|-------|
| 0   | .15   | 5635.42 | .15   | 6216.67 | .15   |

| Bank Sta: | Left    | Right   | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|---------|---------|----------|------|---------|-------|-------|--------|--------|
|           | 5635.42 | 6216.67 |          | 97.5 | 97.5    | 97.5  | .1    |        | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |            |
|--------------------|-------------|------------------------|-------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB   |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 97.50       | 97.50      | 97.50      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 509770.30   | 80184.73   | 69472.85   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 509770.30   | 80184.73   | 69472.85   |
| Q Total (cfs)      | 87996.61    | Flow (cfs)             | 66906.67    | 13953.93   | 7136.01    |
| Top width (ft)     | 7316.67     | Top width (ft)         | 5635.42     | 581.25     | 1100.00    |
| Vel Total (ft/s)   | 0.13        | Avg. Vel. (ft/s)       | 0.13        | 0.17       | 0.10       |
| Max Chl Dpth (ft)  | 143.87      | Hydr. Depth (ft)       | 90.46       | 137.95     | 63.16      |
| Conv. Total (cfs)  | 133621100.0 | Conv. (cfs)            | 101596400.0 | 21188770.0 | 10835880.0 |
| Length wtd. (ft)   | 97.50       | wetted Per. (ft)       | 5649.04     | 582.00     | 1111.98    |
| Min Ch El (ft)     | 631.33      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00       |
| Alpha              | 1.05        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00       |

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Frctn Loss (ft) 0.00 Cum volume (acre-ft) TXU\_Rev1.rep  
C & E Loss (ft) Cum SA (acres) 438924.70 21979.82 166611.30  
3526.88 127.14 1300.80

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 20137

## INPUT

## Description:

| Station | Elevation | Data | num= | 14   | Elev | Sta  | Elev | Sta  | Elev |
|---------|-----------|------|------|------|------|------|------|------|------|
| Sta     | Elev      | Sta  | Elev | Sta  | Elev | Sta  | Elev | Sta  | Elev |
| 0       | 762       | 1100 | 711  | 1500 | 700  | 3125 | 670  | 5000 | 658  |
| 5800    | 642       | 6000 | 640  | 6100 | 631  | 6200 | 631  | 6400 | 643  |
| 6500    | 650       | 7000 | 730  | 7250 | 742  | 7500 | 771  |      |      |

| Manning's n | Values | num= | 3     | Sta  | n Val |
|-------------|--------|------|-------|------|-------|
| Sta         | n Val  | Sta  | n Val | Sta  | n Val |
| 0           | .15    | 5800 | .15   | 6400 | .15   |

| Bank Sta:        | Left  | Right | Lengths:  | Left Channel | Right  | Coeff | Contr. | Expan. |
|------------------|-------|-------|-----------|--------------|--------|-------|--------|--------|
| Sta              | Left  | Right | Lengths:  | Left Channel | Right  | Coeff | Contr. | Expan. |
| 5800             | 5800  | 6400  | 335.02    | 335.02       | 335.02 | .1    | .3     |        |
| Ineffective Flow | num=  | 1     |           |              |        |       |        |        |
| Sta L            | Sta R | Elev  | Permanent |              |        |       |        |        |
| 0                | 3400  | 762   | F         |              |        |       |        |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB   |
|--------------------|-------------|------------------------|-------------|------------|------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 335.02      | 335.02     | 335.02     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 525699.60   | 82871.51   | 69947.77   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 525699.60   | 82871.51   | 69947.77   |
| Q Total (cfs)      | 87992.38    | Flow (cfs)             | 66997.82    | 13998.01   | 6996.55    |
| Top width (ft)     | 7500.00     | Top width (ft)         | 5800.00     | 600.00     | 1100.00    |
| Vel Total (ft/s)   | 0.13        | Avg. Vel. (ft/s)       | 0.13        | 0.17       | 0.10       |
| Max Chl Dpth (ft)  | 144.20      | Hydr. Depth (ft)       | 90.64       | 138.12     | 63.59      |
| Conv. Total (cfs)  | 137768700.0 | Conv. (cfs)            | 104897800.0 | 21916540.0 | 10954430.0 |
| Length wtd. (ft)   | 335.02      | wetted Per. (ft)       | 5815.01     | 600.77     | 1112.77    |
| Min Ch El (ft)     | 631.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00       |
| Alpha              | 1.05        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum volume (acre-ft)   | 437765.80   | 21797.34   | 166455.30  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 3514.08     | 125.82     | 1298.33    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 19802

## INPUT

## Description:

| Station | Elevation | Data | num= | 19   | Elev | Sta  | Elev | Sta  | Elev |
|---------|-----------|------|------|------|------|------|------|------|------|
| Sta     | Elev      | Sta  | Elev | Sta  | Elev | Sta  | Elev | Sta  | Elev |
| 0       | 790       | 500  | 750  | 700  | 720  | 850  | 700  | 1350 | 670  |
| 1600    | 660       | 2000 | 650  | 2150 | 650  | 3100 | 642  | 3200 | 640  |
| 3250    | 630       | 3350 | 630  | 3500 | 642  | 3675 | 660  | 3750 | 660  |
| 3800    | 670       | 3900 | 670  | 4150 | 711  | 4600 | 771  |      |      |

| Manning's n | Values | num= | 3     | Sta  | n Val |
|-------------|--------|------|-------|------|-------|
| Sta         | n Val  | Sta  | n Val | Sta  | n Val |
| 0           | .15    | 3100 | .15   | 3500 | .15   |

| Bank Sta: | Left | Right | Lengths:                                                                                     | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|------|-------|----------------------------------------------------------------------------------------------|--------------|-------|-------|--------|--------|
| Sta       | Left | Right | Lengths: <td>Left Channel</td> <td>Right</td> <td>Coeff</td> <td>Contr.</td> <td>Expan.</td> | Left Channel | Right | Coeff | Contr. | Expan. |
| 3100      | 3100 | 3500  | 589                                                                                          | 589          | 589   | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20     | Element                | Left OB    | Channel    | Right OB   |
|--------------------|------------|------------------------|------------|------------|------------|
| Vel Head (ft)      | 0.00       | wt. n-Val.             | 0.150      | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20     | Reach Len. (ft)        | 589.00     | 589.00     | 589.00     |
| Crit W.S. (ft)     |            | Flow Area (sq ft)      | 284044.90  | 55830.81   | 82972.23   |
| E.G. Slope (ft/ft) | 0.000001   | Area (sq ft)           | 284044.90  | 55830.81   | 82972.23   |
| Q Total (cfs)      | 87980.65   | Flow (cfs)             | 58885.82   | 14690.83   | 14404.00   |
| Top width (ft)     | 4415.03    | Top width (ft)         | 2915.03    | 400.00     | 1100.00    |
| Vel Total (ft/s)   | 0.21       | Avg. Vel. (ft/s)       | 0.21       | 0.26       | 0.17       |
| Max Chl Dpth (ft)  | 145.20     | Hydr. Depth (ft)       | 97.44      | 139.58     | 75.43      |
| Conv. Total (cfs)  | 88903470.0 | Conv. (cfs)            | 59503470.0 | 14844920.0 | 14555080.0 |
| Length wtd. (ft)   | 589.00     | wetted Per. (ft)       | 2920.85    | 401.49     | 1113.44    |
| Min Ch El (ft)     | 630.00     | Shear (lb/sq ft)       | 0.01       | 0.01       | 0.00       |
| Alpha              | 1.05       | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00       | Cum volume (acre-ft)   | 434652.00  | 21263.96   | 165867.30  |
| C & E Loss (ft)    |            | Cum SA (acres)         | 3480.57    | 121.97     | 1289.87    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 19213

## INPUT

## Description:

| Station | Elevation | Data | num= | 20  | Elev | Sta | Elev | Sta | Elev |
|---------|-----------|------|------|-----|------|-----|------|-----|------|
| Sta     | Elev      | Sta  | Elev | Sta | Elev | Sta | Elev | Sta | Elev |



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|      |     |      |     |      |     |      |     |      |     |
|------|-----|------|-----|------|-----|------|-----|------|-----|
| 0    | 740 | 100  | 740 | 150  | 730 | 300  | 720 | 600  | 670 |
| 790  | 660 | 800  | 652 | 1000 | 650 | 1200 | 649 | 1300 | 642 |
| 1600 | 640 | 2600 | 640 | 2650 | 629 | 2750 | 629 | 2900 | 640 |
| 3200 | 650 | 3500 | 720 | 3600 | 731 | 3750 | 731 | 4400 | 784 |

Manning's n Values      num=      3

|     |       |      |       |
|-----|-------|------|-------|
| Sta | n Val | Sta  | n Val |
| 0   | .15   | 2600 | .15   |
|     |       | 2900 | .15   |

Bank Sta: Left    Right    Lengths: Left Channel    Right    Coeff Contr.    Expan.

|      |      |     |     |    |    |
|------|------|-----|-----|----|----|
| 2600 | 2900 | 290 | 290 | .1 | .3 |
|------|------|-----|-----|----|----|

CROSS SECTION OUTPUT    Profile #Max WS

|                    |            |                        |            |            |            |
|--------------------|------------|------------------------|------------|------------|------------|
| E.G. Elev (ft)     | 775.20     | Element                | Left OB    | Channel    | Right OB   |
| Vel Head (ft)      | 0.00       | wt. n-Val.             | 0.150      | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20     | Reach Len. (ft)        | 290.00     | 290.00     | 290.00     |
| Crit W.S. (ft)     |            | Flow Area (sq ft)      | 297663.10  | 42760.35   | 89701.50   |
| E.G. Slope (ft/ft) | 0.000001   | Area (sq ft)           | 297663.10  | 42760.35   | 89701.50   |
| Q Total (cfs)      | 87966.35   | Flow (cfs)             | 64012.06   | 10723.67   | 13230.62   |
| Top width (ft)     | 4292.09    | Top width (ft)         | 2600.00    | 300.00     | 1392.09    |
| Vel Total (ft/s)   | 0.20       | Avg. Vel. (ft/s)       | 0.22       | 0.25       | 0.15       |
| Max Chl Dpth (ft)  | 146.20     | Hydr. Depth (ft)       | 114.49     | 142.53     | 64.44      |
| Conv. Total (cfs)  | 94477060.0 | Conv. (cfs)            | 68749830.0 | 11517370.0 | 14209870.0 |
| Length wtd. (ft)   | 290.00     | Wetted Per. (ft)       | 2644.00    | 301.60     | 1402.72    |
| Min Ch El (ft)     | 629.00     | Shear (lb/sq ft)       | 0.01       | 0.01       | 0.00       |
| Alpha              | 1.07       | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00       | Cum Volume (acre-ft)   | 430719.20  | 20597.41   | 164699.90  |
| C & E Loss (ft)    |            | Cum SA (acres)         | 3443.28    | 117.24     | 1273.03    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 18923

## INPUT

## Description:

| Sta  | Elev | Sta  | Elev | Sta  | Elev | Sta  | Elev | Sta  | Elev |
|------|------|------|------|------|------|------|------|------|------|
| 0    | 740  | 50   | 730  | 400  | 710  | 600  | 670  | 900  | 649  |
| 1000 | 649  | 1050 | 645  | 1400 | 640  | 2200 | 640  | 2600 | 635  |
| 2650 | 628  | 2750 | 628  | 3000 | 634  | 3050 | 639  | 3200 | 639  |
| 3370 | 650  | 3450 | 650  | 3600 | 660  | 3800 | 658  | 4000 | 670  |
| 4100 | 680  | 4450 | 680  | 4700 | 720  | 5000 | 762  |      |      |

Manning's n Values      num=      3

|     |       |      |       |
|-----|-------|------|-------|
| Sta | n Val | Sta  | n Val |
| 0   | .15   | 2600 | .15   |
|     |       | 3000 | .15   |

Bank Sta: Left    Right    Lengths: Left Channel    Right    Coeff Contr.    Expan.

|      |      |    |    |    |    |
|------|------|----|----|----|----|
| 2600 | 3000 | 59 | 59 | .1 | .3 |
|------|------|----|----|----|----|

## CROSS SECTION OUTPUT    Profile #Max WS

|                    |             |                        |            |            |            |
|--------------------|-------------|------------------------|------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB    | Channel    | Right OB   |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150      | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 59.00      | 59.00      | 59.00      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 301798.70  | 57955.57   | 195512.80  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 301798.70  | 57955.57   | 195512.80  |
| Q Total (cfs)      | 87958.30    | Flow (cfs)             | 48741.07   | 10956.38   | 28260.84   |
| Top width (ft)     | 5000.00     | Top width (ft)         | 2600.00    | 400.00     | 2000.00    |
| Vel Total (ft/s)   | 0.16        | Avg. Vel. (ft/s)       | 0.16       | 0.19       | 0.14       |
| Max Chl Dpth (ft)  | 147.20      | Hydr. Depth (ft)       | 116.08     | 144.89     | 97.76      |
| Conv. Total (cfs)  | 127026400.0 | Conv. (cfs)            | 70390200.0 | 15822840.0 | 40813350.0 |
| Length wtd. (ft)   | 59.00       | Wetted Per. (ft)       | 2641.68    | 400.56     | 2021.11    |
| Min Ch El (ft)     | 628.00      | Shear (lb/sq ft)       | 0.00       | 0.00       | 0.00       |
| Alpha              | 1.02        | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 428723.70  | 20262.15   | 163750.50  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 3425.97    | 114.91     | 1261.73    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 18864

## INPUT

## Description:

| Sta  | Elev | Sta  | Elev | Sta  | Elev | Sta  | Elev | Sta  | Elev |
|------|------|------|------|------|------|------|------|------|------|
| 0    | 760  | 200  | 720  | 500  | 690  | 800  | 690  | 850  | 688  |
| 1050 | 690  | 1300 | 711  | 1400 | 715  | 1600 | 711  | 2000 | 647  |
| 2200 | 650  | 2600 | 646  | 2900 | 638  | 3300 | 638  | 4000 | 630  |
| 4025 | 626  | 4150 | 626  | 4175 | 630  | 4750 | 650  | 4900 | 650  |
| 5000 | 655  | 5050 | 657  | 5800 | 756  |      |      |      |      |

Manning's n Values      num=      3

|     |       |      |       |
|-----|-------|------|-------|
| Sta | n Val | Sta  | n Val |
| 0   | .15   | 4000 | .15   |
|     |       | 4175 | .15   |

Bank Sta: Left    Right    Lengths: Left Channel    Right    Coeff Contr.    Expan.

|      |      |        |        |    |    |
|------|------|--------|--------|----|----|
| 4000 | 4175 | 172.67 | 172.67 | .1 | .3 |
|------|------|--------|--------|----|----|

## CROSS SECTION OUTPUT    Profile #Max WS

|                |        |                   |           |          |           |
|----------------|--------|-------------------|-----------|----------|-----------|
| E.G. Elev (ft) | 775.20 | Element           | Left OB   | Channel  | Right OB  |
| Vel Head (ft)  | 0.00   | wt. n-Val.        | 0.150     | 0.150    | 0.150     |
| W.S. Elev (ft) | 775.20 | Reach Len. (ft)   | 172.67    | 172.67   | 172.67    |
| Crit W.S. (ft) |        | Flow Area (sq ft) | 420930.70 | 26010.25 | 166277.30 |

|                    |             | TXU_Rev1.rep           |            |           |            |
|--------------------|-------------|------------------------|------------|-----------|------------|
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 420930.70  | 26010.25  | 166277.30  |
| Q Total (cfs)      | 87956.27    | Flow (cfs)             | 60109.52   | 4685.38   | 23161.38   |
| Top Width (ft)     | 5800.00     | Top width (ft)         | 4000.00    | 175.00    | 1625.00    |
| Vel Total (ft/s)   | 0.14        | Avg. Vel. (ft/s)       | 0.14       | 0.18      | 0.14       |
| Max Chl Dpth (ft)  | 149.20      | Hydr. Depth (ft)       | 105.23     | 148.63    | 102.32     |
| Conv. Total (cfs)  | 135391500.0 | Conv. (cfs)            | 92526830.0 | 7212223.0 | 35652410.0 |
| Length wtd. (ft)   | 172.67      | wetted Per. (ft)       | 4026.99    | 175.64    | 1651.22    |
| Min Ch El (ft)     | 626.00      | Shear (lb/sq ft)       | 0.00       | 0.00      | 0.00       |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00       | 0.00      | 0.00       |
| Frcn Loss (ft)     | 0.00        | Cum volume (acre-ft)   | 428234.30  | 20205.29  | 163505.40  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 3421.50    | 114.52    | 1259.28    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 18691.3\*

INPUT

**Description:**

| Station Elevation Data |        |         | num= 47 |         |  |        |         |  |        |         |  |
|------------------------|--------|---------|---------|---------|--|--------|---------|--|--------|---------|--|
| Sta                    | Elev   |         | Sta     | Elev    |  | Sta    | Elev    |  | Sta    | Elev    |  |
| 0                      | 760    | 279.17  | 724.22  | 510.48  |  | 705.62 | 638.1   |  | 699.52 | 638.1   |  |
| 697.92                 | 694    | 893.33  | 694     | 1020.95 |  | 690    | 1116.67 |  | 690    | 1186.46 |  |
| 1465.62                | 690    | 1467.62 | 690.08  | 1563.33 |  | 690.59 | 1786.67 |  | 699.55 | 1814.58 |  |
| 1914.29                | 700.9  | 1954.17 | 701.94  | 2233.33 |  | 701.22 | 2392.86 |  | 690.14 | 2488.57 |  |
| 2552.38                | 677.95 | 2791.67 | 657.92  | 2871.43 |  | 657.9  | 3070.83 |  | 658.29 | 3254.29 |  |
| 3445.71                | 656.21 | 3629.17 | 654.69  | 3828.57 |  | 651.46 | 4047.92 |  | 647.81 | 4083.81 |  |
| 4402.86                | 642    | 4606.25 | 640.72  | 4721.9  |  | 639.37 | 5009.05 |  | 635.8  | 5232.38 |  |
| 5583.33                | 630    | 5608.33 | 624     | 5716.67 |  | 624    | 5733.33 |  | 630    | 6044.44 |  |
| 6346.67                | 646.57 | 6400    | 646.67  | 6506.67 |  | 646.67 | 6613.33 |  | 650    | 6666.67 |  |
| 6755.56                | 658.67 | 7466.67 | 758     |         |  |        |         |  |        |         |  |

```

Manning's n values      num=      3
Sta  n val      Sta  n val      Sta  n val
0      .15 5583.33      .15 5733.33      .15

```

|           |         |         |          |        |         |        |              |        |
|-----------|---------|---------|----------|--------|---------|--------|--------------|--------|
| Bank Sta: | Left    | Right   | Lengths: | Left   | Channel | Right  | Coeff Contr. | Expan. |
|           | 5583.33 | 5733.33 |          | 172.67 | 172.67  | 172.67 | .1           | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |           |            |
|--------------------|-------------|------------------------|-------------|-----------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel   | Right OB   |
| Vel Head (ft/s)    | 0.00        | Wt. n-Val.             | 0.150       | 0.150     | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 172.67      | 172.67    | 172.67     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 574980.30   | 22555.23  | 182638.10  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 574980.30   | 22555.23  | 182638.10  |
| Q Total (cfs)      | 87949.02    | Flow (cfs)             | 64166.99    | 3223.57   | 20558.47   |
| Top width (ft/s)   | 7466.67     | Top width (ft)         | 5583.33     | 150.00    | 1733.34    |
| Vel Total (ft/s)   | 0.11        | Avg. Vel. (ft/s)       | 0.11        | 0.14      | 0.11       |
| Max Chl Dpth (ft)  | 151.20      | Hydr. Depth (ft)       | 102.98      | 150.37    | 105.37     |
| Conv. Total (cfs)  | 171044800.0 | conv. (cfs)            | 124793100.0 | 6269259.0 | 39982480.0 |
| Length wtd. (ft)   | 172.67      | wetted Per. (ft)       | 5606.64     | 151.76    | 1758.04    |
| Min Chl El (ft)    | 624.00      | Shear (lb/sq ft)       | 0.00        | 0.00      | 0.00       |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00      | 0.00       |
| Frcn Loss          | 0.00        | Cum Volume (acre-ft)   | 426260.40   | 20109.03  | 162813.90  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 3402.51     | 113.88    | 1252.62    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 18518.6\*

INPUT

**Description:**

| Station Elevation Data |        |         | num= 47 |         |  |        |         |  |        |         |        |
|------------------------|--------|---------|---------|---------|--|--------|---------|--|--------|---------|--------|
| Sta                    | Elev   |         | Sta     | Elev    |  | Sta    | Elev    |  | Sta    | Elev    |        |
| 0                      | 760    | 358.33  | 728.44  | 655.24  |  | 707.81 | 819.05  |  | 704.76 | 819.05  | 699.43 |
| 895.83                 | 698    | 1146.67 | 698     | 1310.48 |  | 690    | 1433.33 |  | 690    | 1522.92 | 689.33 |
| 1881.25                | 690    | 1883.81 | 690.04  | 2006.67 |  | 685.29 | 2293.33 |  | 689.77 | 2329.17 | 689.6  |
| 2457.14                | 687.95 | 2508.33 | 688.89  | 2866.67 |  | 691.44 | 3071.43 |  | 687.57 | 3194.29 | 680.58 |
| 3276.19                | 681.48 | 3583.33 | 668.83  | 3685.71 |  | 667.95 | 3941.67 |  | 666.58 | 4177.14 | 664.23 |
| 4422.86                | 665.1  | 4658.33 | 663.39  | 4914.29 |  | 660.73 | 5195.83 |  | 657.61 | 5241.9  | 657.33 |
| 5651.43                | 646    | 5912.5  | 643.45  | 6060.95 |  | 641.68 | 6429.52 |  | 636.9  | 6716.19 | 636.29 |
| 7166.67                | 630    | 7191.67 | 622     | 7283.33 |  | 622    | 7291.67 |  | 630    | 7622.22 | 638.71 |
| 7943.33                | 643.13 | 8000    | 643.33  | 8113.33 |  | 643.33 | 8226.67 |  | 645    | 8283.33 | 645.67 |
| 8377.78                | 649.33 | 9133.33 | 760     |         |  |        |         |  |        |         |        |

|           |     |         |      |         |     |
|-----------|-----|---------|------|---------|-----|
| Manning's | n   | Values  | num= | 3       |     |
| Sta       | n   | Val     | Sta  | n       | Val |
| 0         | .15 | 7166.67 | .15  | 7291.67 | .15 |

|           |         |         |          |        |         |        |       |        |        |
|-----------|---------|---------|----------|--------|---------|--------|-------|--------|--------|
| Bank Sta: | Left    | Right   | Lengths: | Left   | Channel | Right  | Coeff | Contr. | Expan. |
|           | 7166.67 | 7291.67 |          | 172.67 | 172.67  | 172.67 |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                   |           |           |            |
|--------------------|-------------|-------------------|-----------|-----------|------------|
| E.G. Elev (ft)     | 775.20      | Element           | Left OB   | Channel   | Right OB   |
| Vel Head (ft)      | 0.00        | Wt. n-Val.        | 0.150     | 0.150     | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)   | 172.67    | 172.67    | 172.67     |
| Crit W.S. (ft)     |             | Flow Area (sq ft) | 721906.40 | 19016.82  | 199664.80  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)      | 721906.40 | 19016.82  | 199664.80  |
| Q Total (cfs)      | 87940.02    | Flow (cfs)        | 66489.43  | 2257.28   | 19193.32   |
| Top width (ft)     | 9133.33     | Top width (ft)    | 7166.67   | 125.00    | 1841.66    |
| Vel Total (ft/s)   | 0.09        | Avg. Vel. (ft/s)  | 0.09      | 0.12      | 0.10       |
| Max Chl Dpth (ft)  | 153.20      | Hydr. Depth (ft)  | 100.73    | 152.13    | 100.42     |
| Conv. Total (cfs)  | 204314600.0 | Wetted Per. (ft)  | 1542.76   | 5244423.0 | 44592610.0 |
| Length wtd. (ft)   | 172.67      | Shear (lb/sq ft)  | 7190.52   | 129.47    | 1865.16    |
| Min Ch El (ft)     | 622.00      |                   | 0.00      | 0.00      | 0.00       |

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|                 |      |                        |              |          |           |      |
|-----------------|------|------------------------|--------------|----------|-----------|------|
| Alpha           | 1.01 | Stream Power (lb/ft s) | TXU_Rev1.rep | 0.00     | 0.00      | 0.00 |
| Frctn Loss (ft) | 0.00 | Cum Volume (acre-ft)   | 423690.00    | 20026.63 | 162056.20 |      |
| C & E Loss (ft) |      | Cum SA (acres)         | 3377.24      | 113.33   | 1245.54   |      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 18346

## INPUT

## Description:

|         |           |      |      |      |      |       |      |       |      |
|---------|-----------|------|------|------|------|-------|------|-------|------|
| Station | Elevation | Data | num= | 30   |      |       |      |       |      |
| Sta     | Elev      | Sta  | Elev | Sta  | Elev | Sta   | Elev | Sta   | Elev |
| 0       | 760       | 800  | 710  | 1000 | 710  | 1000  | 702  | 1400  | 702  |
| 1600    | 690       | 2300 | 690  | 2450 | 680  | 2800  | 680  | 3000  | 675  |
| 3750    | 685       | 3900 | 680  | 4000 | 685  | 4500  | 678  | 5100  | 672  |
| 5400    | 674       | 6000 | 670  | 6400 | 667  | 6900  | 650  | 7400  | 644  |
| 7850    | 638       | 8200 | 638  | 8750 | 630  | 8775  | 620  | 8850  | 620  |
| 8850    | 630       | 9200 | 638  | 9600 | 640  | 10000 | 640  | 10800 | 762  |

|                    |       |      |       |
|--------------------|-------|------|-------|
| Manning's n Values | num=  | 3    |       |
| Sta                | n Val | Sta  | n Val |
| 0                  | .15   | 8750 | .15   |

|                  |       |               |           |       |       |        |        |
|------------------|-------|---------------|-----------|-------|-------|--------|--------|
| Bank Sta: Left   | Right | Lengths: Left | Channel   | Right | Coeff | Contr. | Expan. |
| 8750             | 8850  | 421           | 421       | 421   | .1    | .3     |        |
| Ineffective Flow | num=  | 1             |           |       |       |        |        |
| Sta L            | Sta R | Elev          | Permanent |       |       |        |        |
| 0                | 6400  | 670           | F         |       |       |        |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |           |            |
|--------------------|-------------|------------------------|-------------|-----------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel   | Right OB   |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150     | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 421.00      | 421.00    | 421.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 861687.40   | 15395.14  | 217342.80  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 861687.40   | 15395.14  | 217342.80  |
| Q Total (cfs)      | 87929.27    | Flow (cfs)             | 67911.98    | 1519.12   | 18498.18   |
| Top width (ft)     | 10800.00    | Top width (ft)         | 8750.00     | 100.00    | 1950.00    |
| Vel Total (ft/s)   | 0.08        | Avg. Vel. (ft/s)       | 0.08        | 0.10      | 0.09       |
| Max Chl Dpth (ft)  | 155.20      | Hydr. Depth (ft)       | 98.48       | 153.95    | 111.46     |
| Conv. Total (cfs)  | 235215200.0 | Conv. (cfs)            | 181667900.0 | 4063714.0 | 49483560.0 |
| Length wtd. (ft)   | 421.00      | Wetted Per. (ft)       | 8776.33     | 111.93    | 1972.55    |
| Min Ch El (ft)     | 620.00      | Shear (lb/sq ft)       | 0.00        | 0.00      | 0.00       |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00      | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 420551.30   | 19958.43  | 161229.70  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 3345.69     | 112.89    | 1238.02    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 17925

## INPUT

## Description:

|         |           |      |      |      |      |      |      |      |      |
|---------|-----------|------|------|------|------|------|------|------|------|
| Station | Elevation | Data | num= | 20   |      |      |      |      |      |
| Sta     | Elev      | Sta  | Elev | Sta  | Elev | Sta  | Elev | Sta  | Elev |
| 0       | 770       | 800  | 680  | 1000 | 670  | 2300 | 670  | 2600 | 665  |
| 3000    | 660       | 3650 | 662  | 4600 | 652  | 4700 | 650  | 6000 | 640  |
| 6400    | 632       | 6420 | 629  | 6420 | 618  | 6600 | 618  | 6600 | 629  |
| 7100    | 629       | 7700 | 638  | 8200 | 640  | 8300 | 640  | 9200 | 750  |

|                    |       |      |       |
|--------------------|-------|------|-------|
| Manning's n Values | num=  | 3    |       |
| Sta                | n Val | Sta  | n Val |
| 0                  | .15   | 6420 | .15   |

|                  |       |               |           |       |       |        |        |
|------------------|-------|---------------|-----------|-------|-------|--------|--------|
| Bank Sta: Left   | Right | Lengths: Left | Channel   | Right | Coeff | Contr. | Expan. |
| 6420             | 6600  | 414           | 414       | 414   | .1    | .3     |        |
| Ineffective Flow | num=  | 1             |           |       |       |        |        |
| Sta L            | Sta R | Elev          | Permanent |       |       |        |        |
| 0                | 4200  | 670           | F         |       |       |        |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |           |            |
|--------------------|-------------|------------------------|-------------|-----------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel   | Right OB   |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150     | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 414.00      | 414.00    | 414.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 701133.10   | 28296.25  | 311923.70  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 701133.10   | 28296.25  | 311923.70  |
| Q Total (cfs)      | 87902.40    | Flow (cfs)             | 57905.31    | 2761.96   | 27235.13   |
| Top width (ft)     | 9200.00     | Top width (ft)         | 6420.00     | 180.00    | 2600.00    |
| Vel Total (ft/s)   | 0.08        | Avg. Vel. (ft/s)       | 0.08        | 0.10      | 0.09       |
| Max Chl Dpth (ft)  | 157.20      | Hydr. Depth (ft)       | 109.21      | 157.20    | 119.97     |
| Conv. Total (cfs)  | 240621900.0 | Conv. (cfs)            | 158508600.0 | 7560513.0 | 74552780.0 |
| Length wtd. (ft)   | 414.00      | Wetted Per. (ft)       | 6430.99     | 202.00    | 2631.97    |
| Min Ch El (ft)     | 618.00      | Shear (lb/sq ft)       | 0.00        | 0.00      | 0.00       |
| Alpha              | 1.00        | Stream Power (lb/ft s) | 0.00        | 0.00      | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 412999.10   | 19747.30  | 158672.00  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 3272.38     | 111.53    | 1216.03    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 17511



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## INPUT

## Description:

| Station | Elevation | Data | num= | 24   | Sta | Elev  | Sta | Elev | Sta | Elev | Sta | Elev |
|---------|-----------|------|------|------|-----|-------|-----|------|-----|------|-----|------|
| 0       | 760       | 400  | 720  | 900  | 735 | 1400  | 710 | 2000 | 670 |      |     |      |
| 2300    | 670       | 2300 | 659  | 2450 | 659 | 2450  | 670 | 3200 | 670 |      |     |      |
| 3650    | 660       | 4000 | 660  | 4300 | 655 | 4800  | 657 | 5250 | 650 |      |     |      |
| 6800    | 640       | 7000 | 630  | 7100 | 617 | 7200  | 617 | 7300 | 630 |      |     |      |
| 8000    | 630       | 8400 | 632  | 9200 | 640 | 10000 | 768 |      |     |      |     |      |

## Manning's n Values

| Sta | n Val | Sta  | n Val | Sta  | n Val |
|-----|-------|------|-------|------|-------|
| 0   | .15   | 7000 | .15   | 7300 | .15   |

| Bank Sta: | Left | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|------|-------|----------|--------------|-------|-------|--------|--------|
|           | 7000 | 7300  |          | 441          | 441   |       | .1     | .3     |

| Ineffective Flow | num=  | 1    |
|------------------|-------|------|
| Sta L            | Sta R | Elev |
| 0                | 5100  | 670  |

## CROSS SECTION OUTPUT Profile #Max WS

| Element                | Left OB     | Channel    | Right OB   |
|------------------------|-------------|------------|------------|
| E.G. Elev (ft)         | 775.20      |            |            |
| Vel Head (ft)          | 0.00        |            |            |
| W.S. Elev (ft)         | 775.20      |            |            |
| Crit W.S. (ft)         |             |            |            |
| E.G. Slope (ft/ft)     | 0.000000    |            |            |
| Q Total (cfs)          | 87878.30    |            |            |
| Top width (ft)         | 10000.00    |            |            |
| Vel Total (ft/s)       | 0.08        |            |            |
| Max Chl Dpth (ft)      | 158.20      |            |            |
| Conv. Total (cfs)      | 245635700.0 |            |            |
| Length wtd. (ft)       | 441.00      |            |            |
| Min Ch El (ft)         | 617.00      |            |            |
| Alpha                  | 1.02        |            |            |
| Frctn Loss (ft)        | 0.00        |            |            |
| C & E Loss (ft)        |             |            |            |
| wt. n-val.             | 0.150       | 0.150      | 0.150      |
| Reach Len. (ft)        | 441.00      | 441.00     | 441.00     |
| Flow Area (sq ft)      | 712733.20   | 46160.35   | 327643.20  |
| Area (sq ft)           | 712733.20   | 46160.35   | 327643.20  |
| Flow (cfs)             | 54858.90    | 4679.96    | 28339.44   |
| Top width (ft)         | 7000.00     | 300.00     | 2700.00    |
| Avg. Vel. (ft/s)       | 0.08        | 0.10       | 0.09       |
| Hydr. Depth (ft)       | 101.82      | 153.87     | 121.35     |
| Conv. (cfs)            | 153340500.0 | 13081330.0 | 79213840.0 |
| wetted Per. (ft)       | 7041.87     | 301.68     | 2717.42    |
| Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00       |
| Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00       |
| Cum Volume (acre-ft)   | 406280.30   | 19393.47   | 155632.80  |
| Cum SA (acres)         | 3208.61     | 109.25     | 1190.85    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC RS: 17070

## INPUT

## Description:

| Station | Elevation | Data  | num= | 36    | Sta | Elev  | Sta | Elev  | Sta | Elev | Sta | Elev |
|---------|-----------|-------|------|-------|-----|-------|-----|-------|-----|------|-----|------|
| 0       | 742       | 200   | 730  | 400   | 720 | 800   | 720 | 800   | 720 |      |     |      |
| 800     | 710       | 1200  | 710  | 1200  | 705 | 1550  | 700 | 2000  | 700 |      |     |      |
| 2050    | 680       | 2600  | 680  | 2800  | 670 | 3500  | 670 | 3600  | 660 |      |     |      |
| 3800    | 660       | 3800  | 670  | 4200  | 672 | 5200  | 660 | 5800  | 648 |      |     |      |
| 6400    | 652       | 7800  | 640  | 8100  | 640 | 8500  | 630 | 8510  | 616 |      |     |      |
| 8690    | 616       | 8700  | 630  | 9800  | 630 | 10400 | 640 | 10700 | 640 |      |     |      |
| 11100   | 670       | 11600 | 660  | 12200 | 660 | 12300 | 670 | 12500 | 670 |      |     |      |
| 13600   | 790       |       |      |       |     |       |     |       |     |      |     |      |

## Manning's n Values

| Sta | n Val | Sta  | n Val | Sta  | n Val |
|-----|-------|------|-------|------|-------|
| 0   | .15   | 8500 | .15   | 8700 | .15   |

| Bank Sta: | Left | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|------|-------|----------|--------------|-------|-------|--------|--------|
|           | 8500 | 8700  |          | 411          | 411   |       | .1     | .3     |

| Ineffective Flow | num=  | 1    |
|------------------|-------|------|
| Sta L            | Sta R | Elev |
| 0                | 6300  | 670  |

## CROSS SECTION OUTPUT Profile #Max WS

| Element                | Left OB     | Channel   | Right OB    |
|------------------------|-------------|-----------|-------------|
| E.G. Elev (ft)         | 775.20      |           |             |
| Vel Head (ft)          | 0.00        |           |             |
| W.S. Elev (ft)         | 775.20      |           |             |
| Crit W.S. (ft)         |             |           |             |
| E.G. Slope (ft/ft)     | 0.000000    |           |             |
| Q Total (cfs)          | 87847.44    |           |             |
| Top width (ft)         | 13464.34    |           |             |
| Vel Total (ft/s)       | 0.06        |           |             |
| Max Chl Dpth (ft)      | 159.20      |           |             |
| Conv. Total (cfs)      | 326626400.0 |           |             |
| Length wtd. (ft)       | 411.00      |           |             |
| Min Ch El (ft)         | 616.00      |           |             |
| Alpha                  | 1.01        |           |             |
| Frctn Loss (ft)        | 0.00        |           |             |
| C & E Loss (ft)        |             |           |             |
| wt. n-val.             | 0.150       | 0.150     | 0.150       |
| Reach Len. (ft)        | 411.00      | 411.00    | 411.00      |
| Flow Area (sq ft)      | 884934.90   | 31700.23  | 539489.60   |
| Area (sq ft)           | 884934.90   | 31700.23  | 539489.60   |
| Flow (cfs)             | 51879.09    | 2361.51   | 33606.84    |
| Top width (ft)         | 8500.00     | 200.00    | 4764.34     |
| Avg. Vel. (ft/s)       | 0.06        | 0.07      | 0.06        |
| Hydr. Depth (ft)       | 104.11      | 158.50    | 113.23      |
| Conv. (cfs)            | 192892100.0 | 8780359.0 | 124953900.0 |
| wetted Per. (ft)       | 8573.58     | 214.41    | 4771.87     |
| Shear (lb/sq ft)       | 0.00        | 0.00      | 0.00        |
| Stream Power (lb/ft s) | 0.00        | 0.00      | 0.00        |
| Cum Volume (acre-ft)   | 398193.00   | 18999.35  | 151243.40   |
| Cum SA (acres)         | 3130.15     | 106.72    | 1153.06     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC RS: 16659

## INPUT

## Description:

| Station | Elevation | Data | num= | 26   | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev |
|---------|-----------|------|------|------|-----|------|-----|------|-----|------|-----|------|
| 0       | 760       | 1200 | 688  | 1550 | 680 | 1600 | 670 | 2100 | 670 |      |     |      |
| 2450    | 660       | 2500 | 650  | 2800 | 650 | 2850 | 660 | 3150 | 664 |      |     |      |
| 3700    | 661       | 4450 | 650  | 5200 | 645 | 6000 | 645 | 6500 | 640 |      |     |      |
| 6800    | 640       | 7200 | 630  | 7250 | 612 | 7400 | 612 | 7400 | 630 |      |     |      |

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|       |     |      |     |      |     |      |     |       |     |
|-------|-----|------|-----|------|-----|------|-----|-------|-----|
| 8400  | 630 | 9150 | 640 | 9350 | 640 | 9800 | 650 | 10000 | 650 |
| 11200 | 785 |      |     |      |     |      |     |       |     |

Manning's n Values      num= 3

|     |       |      |       |      |       |
|-----|-------|------|-------|------|-------|
| Sta | n Val | Sta  | n Val | Sta  | n Val |
| 0   | .15   | 7200 | .15   | 7400 | .15   |

Bank Sta: Left    Right    Lengths: Left Channel    Right    Coeff Contr.    Expan.

|      |      |     |     |     |    |    |
|------|------|-----|-----|-----|----|----|
| 7200 | 7400 | 492 | 492 | 492 | .1 | .3 |
|------|------|-----|-----|-----|----|----|

Ineffective Flow      num= 1

|       |       |      |           |
|-------|-------|------|-----------|
| Sta L | Sta R | Elev | Permanent |
| 0     | 4500  | 670  | F         |

CROSS SECTION OUTPUT    Profile #Max WS

|                    |             |                        |             |           |             |
|--------------------|-------------|------------------------|-------------|-----------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel   | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150     | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 492.00      | 492.00    | 492.00      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 787773.00   | 32190.22  | 430691.00   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 787773.00   | 32190.22  | 430691.00   |
| Q Total (cfs)      | 87816.70    | Flow (cfs)             | 54263.79    | 2687.37   | 30865.54    |
| Top Width (ft)     | 11112.90    | Top width (ft)         | 7200.00     | 200.00    | 3712.90     |
| Vel Total (ft/s)   | 0.07        | Avg. Vel. (ft/s)       | 0.07        | 0.08      | 0.07        |
| Max Chl Dpth (ft)  | 163.20      | Hydr. Depth (ft)       | 109.41      | 160.95    | 116.00      |
| Conv. Total (cfs)  | 288346000.0 | Conv. (cfs)            | 178175100.0 | 8823968.0 | 101347000.0 |
| Length wtd. (ft)   | 492.00      | Wetted Per. (ft)       | 7220.85     | 221.14    | 3720.10     |
| Min Ch El (ft)     | 612.00      | Shear (lb/sq ft)       | 0.00        | 0.00      | 0.00        |
| Alpha              | 1.00        | Stream Power (lb/ft s) | 0.00        | 0.00      | 0.00        |
| Frcn Loss (ft)     | 0.00        | Cum Volume (acre-ft)   | 390301.80   | 18697.93  | 146666.40   |
| C & E Loss (ft)    |             | Cum SA (acres)         | 3056.08     | 104.84    | 1113.07     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 16167

## INPUT

## Description:

| Station | Elevation | Data  | num= | 22   |      |      |      |      |      |
|---------|-----------|-------|------|------|------|------|------|------|------|
| Sta     | Elev      | Sta   | Elev | Sta  | Elev | Sta  | Elev | Sta  | Elev |
| 0       | 762       | 1000  | 680  | 1200 | 673  | 1600 | 665  | 2300 | 660  |
| 2800    | 658       | 2900  | 657  | 3000 | 650  | 3200 | 650  | 3200 | 660  |
| 3600    | 660       | 5200  | 640  | 6400 | 640  | 6800 | 637  | 7200 | 630  |
| 7250    | 611       | 7400  | 611  | 7410 | 630  | 8800 | 630  | 9600 | 638  |
| 10000   | 650       | 10400 | 760  |      |      |      |      |      |      |

Manning's n Values      num= 3

|     |       |      |       |      |       |
|-----|-------|------|-------|------|-------|
| Sta | n Val | Sta  | n Val | Sta  | n Val |
| 0   | .15   | 7200 | .15   | 7410 | .15   |

Bank Sta: Left    Right    Lengths: Left Channel    Right    Coeff Contr.    Expan.

|      |      |     |     |     |    |    |
|------|------|-----|-----|-----|----|----|
| 7200 | 7410 | 568 | 568 | 568 | .1 | .3 |
|------|------|-----|-----|-----|----|----|

Ineffective Flow      num= 1

|       |       |      |           |
|-------|-------|------|-----------|
| Sta L | Sta R | Elev | Permanent |
| 0     | 4500  | 670  | F         |

## CROSS SECTION OUTPUT    Profile #Max WS

|                    |             |                        |             |           |             |
|--------------------|-------------|------------------------|-------------|-----------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel   | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150     | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 568.00      | 568.00    | 568.00      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 822397.10   | 33912.21  | 395351.00   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 822397.10   | 33912.21  | 395351.00   |
| Q Total (cfs)      | 87784.34    | Flow (cfs)             | 55647.08    | 2767.87   | 29369.40    |
| Top Width (ft)     | 10400.00    | Top width (ft)         | 7200.00     | 210.00    | 2990.00     |
| Vel Total (ft/s)   | 0.07        | Avg. Vel. (ft/s)       | 0.07        | 0.08      | 0.07        |
| Max Chl Dpth (ft)  | 164.20      | Hydr. Depth (ft)       | 114.22      | 161.49    | 132.22      |
| Conv. Total (cfs)  | 301786700.0 | Conv. (cfs)            | 191304600.0 | 9515423.0 | 100966700.0 |
| Length wtd. (ft)   | 568.00      | Wetted Per. (ft)       | 7227.23     | 224.96    | 3020.27     |
| Min Ch El (ft)     | 611.00      | Shear (lb/sq ft)       | 0.00        | 0.00      | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00      | 0.00        |
| Frcn Loss (ft)     | 0.00        | Cum Volume (acre-ft)   | 381208.50   | 18324.63  | 142001.40   |
| C & E Loss (ft)    |             | Cum SA (acres)         | 2974.76     | 102.52    | 1075.22     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 15599

## INPUT

## Description:

| Station | Elevation | Data | num= | 29   |      |       |      |      |      |
|---------|-----------|------|------|------|------|-------|------|------|------|
| Sta     | Elev      | Sta  | Elev | Sta  | Elev | Sta   | Elev | Sta  | Elev |
| 0       | 760       | 0    | 750  | 300  | 750  | 700   | 680  | 1400 | 660  |
| 2100    | 655       | 2600 | 655  | 3100 | 649  | 3400  | 649  | 3500 | 655  |
| 4000    | 649       | 4400 | 649  | 4450 | 649  | 5000  | 649  | 5100 | 630  |
| 5900    | 630       | 5900 | 632  | 6000 | 632  | 6100  | 629  | 6300 | 629  |
| 6300    | 620       | 6500 | 620  | 6500 | 629  | 7400  | 629  | 7450 | 610  |
| 7550    | 610       | 7700 | 629  | 9800 | 629  | 10800 | 780  |      |      |

Manning's n Values      num= 3

|     |       |      |       |      |       |
|-----|-------|------|-------|------|-------|
| Sta | n Val | Sta  | n Val | Sta  | n Val |
| 0   | .15   | 7450 | .15   | 7700 | .15   |

Bank Sta: Left    Right    Lengths: Left Channel    Right    Coeff Contr.    Expan.

|      |      |     |     |     |    |    |
|------|------|-----|-----|-----|----|----|
| 7450 | 7700 | 798 | 798 | 798 | .1 | .3 |
|------|------|-----|-----|-----|----|----|

Ineffective Flow      num= 1

|       |       |      |           |
|-------|-------|------|-----------|
| Sta L | Sta R | Elev | Permanent |
|       |       |      |           |

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0 4200 670 F

CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |            |
|--------------------|-------------|------------------------|-------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB   |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 798.00      | 798.00     | 798.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 905522.40   | 39875.25   | 377799.30  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 905522.40   | 39875.25   | 377799.30  |
| Q Total (cfs)      | 87746.83    | Flow (cfs)             | 59494.78    | 3146.24    | 25105.81   |
| Top width (ft)     | 10768.22    | Top width (ft)         | 7450.00     | 250.00     | 3068.22    |
| Vel Total (ft/s)   | 0.07        | Avg. Vel. (ft/s)       | 0.07        | 0.08       | 0.07       |
| Max Chl Dpth (ft)  | 165.20      | Hydr. Depth (ft)       | 121.55      | 159.50     | 123.13     |
| Conv. Total (cfs)  | 322976900.0 | Conv. (cfs)            | 218987300.0 | 11580610.0 | 92409020.0 |
| Length Wtd. (ft)   | 798.00      | Wetted Per. (ft)       | 7507.16     | 251.20     | 3079.20    |
| Min Ch El (ft)     | 610.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00       |
| Alpha              | 1.00        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 369942.90   | 17843.55   | 136960.70  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 2879.25     | 99.52      | 1035.72    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 14801

## INPUT

## Description:

| Station | Elevation | Data  | num= | 22   | Elev | Sta   | Elev | Sta   | Elev | Sta | Elev | Sta | Elev |
|---------|-----------|-------|------|------|------|-------|------|-------|------|-----|------|-----|------|
| 0       | 755       | 700   | 700  | 1300 | 660  | 2300  | 650  | 3600  | 650  |     |      |     |      |
| 4000    | 640       | 4300  | 640  | 4900 | 660  | 6200  | 660  | 6400  | 640  |     |      |     |      |
| 6800    | 640       | 7700  | 620  | 7750 | 609  | 7890  | 609  | 7900  | 620  |     |      |     |      |
| 8000    | 625       | 8400  | 625  | 9600 | 630  | 10000 | 635  | 10200 | 650  |     |      |     |      |
| 10900   | 780       | 11200 | 780  |      |      |       |      |       |      |     |      |     |      |

Manning's n values

| Sta | n Val | Sta  | num= | 3    | Sta | n Val |
|-----|-------|------|------|------|-----|-------|
| 0   | .15   | 7700 | .15  | 7900 | .15 |       |

| Bank Sta: | Left | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|------|-------|----------|------|---------|-------|-------|--------|--------|
|           | 7700 | 7900  |          | 478  | 478     | 478   | .1    | .3     |        |

| Ineffective Flow | num=      | 1 |
|------------------|-----------|---|
| Sta L Sta R Elev | Permanent | F |
| 0 4400 670       |           |   |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |           |            |
|--------------------|-------------|------------------------|-------------|-----------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel   | Right OB   |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150     | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 478.00      | 478.00    | 478.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 900797.10   | 32910.18  | 378414.80  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 900797.10   | 32910.18  | 378414.80  |
| Q Total (cfs)      | 87692.41    | Flow (cfs)             | 58889.77    | 2653.56   | 26149.07   |
| Top width (ft)     | 10874.16    | Top width (ft)         | 7700.00     | 200.00    | 2974.16    |
| Vel Total (ft/s)   | 0.07        | Avg. Vel. (ft/s)       | 0.07        | 0.08      | 0.07       |
| Max Chl Dpth (ft)  | 166.20      | Hydr. Depth (ft)       | 116.99      | 164.55    | 127.23     |
| Conv. Total (cfs)  | 317143900.0 | Conv. (cfs)            | 212977700.0 | 9596719.0 | 94569400.0 |
| Length Wtd. (ft)   | 478.00      | Wetted Per. (ft)       | 7725.42     | 206.06    | 2986.42    |
| Min Ch El (ft)     | 609.00      | Shear (lb/sq ft)       | 0.00        | 0.00      | 0.00       |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00      | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 353397.40   | 17176.85  | 130034.00  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 2740.47     | 95.40     | 980.37     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 14323

## INPUT

## Description:

| Station | Elevation | Data | num= | 19    | Elev | Sta   | Elev | Sta  | Elev | Sta | Elev |
|---------|-----------|------|------|-------|------|-------|------|------|------|-----|------|
| 0       | 720       | 900  | 670  | 2000  | 650  | 3800  | 650  | 4500 | 660  |     |      |
| 4800    | 660       | 5000 | 663  | 5200  | 663  | 5900  | 658  | 6700 | 658  |     |      |
| 7100    | 638       | 8000 | 620  | 8050  | 608  | 8250  | 608  | 8300 | 620  |     |      |
| 9300    | 622       | 9700 | 622  | 10000 | 624  | 11200 | 780  |      |      |     |      |

Manning's n values

| Sta | n Val | Sta  | num= | 3    | Sta | n Val |
|-----|-------|------|------|------|-----|-------|
| 0   | .15   | 8000 | .15  | 8300 | .15 |       |

| Bank Sta: | Left | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|------|-------|----------|------|---------|-------|-------|--------|--------|
|           | 8000 | 8300  |          | 402  | 402     | 402   | .1    | .3     |        |

| Ineffective Flow | num=      | 1 |
|------------------|-----------|---|
| Sta L Sta R Elev | Permanent | F |
| 0 4350 670       |           |   |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |          |                   |           |          |           |
|--------------------|----------|-------------------|-----------|----------|-----------|
| E.G. Elev (ft)     | 775.20   | Element           | Left OB   | Channel  | Right OB  |
| Vel Head (ft)      | 0.00     | Wt. n-Val.        | 0.150     | 0.150    | 0.150     |
| W.S. Elev (ft)     | 775.20   | Reach Len. (ft)   | 402.00    | 402.00   | 402.00    |
| Crit W.S. (ft)     |          | Flow Area (sq ft) | 944657.40 | 49560.28 | 349071.30 |
| E.G. Slope (ft/ft) | 0.000000 | Area (sq ft)      | 944657.40 | 49560.28 | 349071.30 |
| Q Total (cfs)      | 87658.72 | Flow (cfs)        | 60707.07  | 3978.01  | 22973.64  |
| Top width (ft)     | 11163.08 | Top width (ft)    | 8000.00   | 300.00   | 2863.08   |
| Vel Total (ft/s)   | 0.07     | Avg. Vel. (ft/s)  | 0.06      | 0.08     | 0.07      |
| Max Chl Dpth (ft)  | 167.20   | Hydr. Depth (ft)  | 118.08    | 165.20   | 121.92    |



|                   |             |                        |              |             |            |            |
|-------------------|-------------|------------------------|--------------|-------------|------------|------------|
| Conv. Total (cfs) | 323679000.0 | Conv. (cfs)            | TXU_Rev1.rep | 224160300.0 | 14688750.0 | 84829940.0 |
| Length Wtd. (ft)  | 402.00      | wetted Per. (ft)       | 8057.56      | 302.84      | 2872.88    |            |
| Min Ch El (ft)    | 608.00      | Shear (lb/sq ft)       | 0.00         | 0.00        | 0.00       |            |
| Alpha             | 1.01        | Stream Power (lb/ft s) | 0.00         | 0.00        | 0.00       |            |
| Frctn Loss (ft)   | 0.00        | Cum Volume (acre-ft)   | 343272.00    | 16724.36    | 126042.50  |            |
| C & E Loss (ft)   |             | Cum SA (acres)         | 2654.33      | 92.66       | 948.35     |            |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 13921

## INPUT

## Description:

|         |           |      |      |      |      |       |      |       |      |
|---------|-----------|------|------|------|------|-------|------|-------|------|
| Station | Elevation | Data | num= | 15   |      |       |      |       |      |
| Sta     | Elev      | Sta  | Elev | Sta  | Elev | Sta   | Elev | Sta   | Elev |
| 0       | 720       | 800  | 670  | 1800 | 650  | 3300  | 650  | 4500  | 670  |
| 5100    | 668       | 6100 | 660  | 7200 | 630  | 8100  | 620  | 8150  | 607  |
| 8350    | 607       | 8400 | 620  | 9500 | 622  | 10000 | 630  | 10800 | 770  |

## Manning's n Values

|     |       |      |       |      |       |
|-----|-------|------|-------|------|-------|
| Sta | n Val | Sta  | n Val | Sta  | n Val |
| 0   | .15   | 8100 | .15   | 8400 | .15   |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 8100           | 8400  | 417           | 417     | 417   | .1    | .3     |        |

|                  |       |      |
|------------------|-------|------|
| Ineffective Flow | num=  | 1    |
| Sta L            | Sta R | Elev |
| 0                | 4350  | 670  |
|                  |       | F    |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |            |
|--------------------|-------------|------------------------|-------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB   |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 417.00      | 417.00     | 417.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 958726.60   | 49810.24   | 304381.90  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 958726.60   | 49810.24   | 304381.90  |
| Q Total (cfs)      | 87630.45    | Flow (cfs)             | 62711.89    | 4072.18    | 20846.39   |
| Top width (ft)     | 10800.00    | Top width (ft)         | 8100.00     | 300.00     | 2400.00    |
| Vel Total (ft/s)   | 0.07        | Avg. Vel. (ft/s)       | 0.07        | 0.08       | 0.07       |
| Max Chl Dpth (ft)  | 168.20      | Hydr. Depth (ft)       | 118.36      | 166.03     | 126.83     |
| Conv. Total (cfs)  | 318413200.0 | Conv. (cfs)            | 227869300.0 | 14796640.0 | 75747230.0 |
| Length Wtd. (ft)   | 417.00      | wetted Per. (ft)       | 8157.63     | 303.32     | 2417.42    |
| Min Ch El (ft)     | 607.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00       |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 334489.10   | 16265.83   | 123027.20  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 2580.04     | 89.89      | 924.06     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 13504

## INPUT

## Description:

|         |           |       |      |       |      |      |      |      |      |
|---------|-----------|-------|------|-------|------|------|------|------|------|
| Station | Elevation | Data  | num= | 18    |      |      |      |      |      |
| Sta     | Elev      | Sta   | Elev | Sta   | Elev | Sta  | Elev | Sta  | Elev |
| 0       | 720       | 800   | 670  | 2000  | 650  | 2750 | 650  | 3200 | 662  |
| 4100    | 662       | 4400  | 670  | 5100  | 670  | 6200 | 660  | 6900 | 632  |
| 8300    | 620       | 8350  | 606  | 8450  | 606  | 8500 | 620  | 9600 | 620  |
| 10000   | 630       | 10600 | 770  | 10800 | 770  |      |      |      |      |

## Manning's n Values

|     |       |      |       |      |       |
|-----|-------|------|-------|------|-------|
| Sta | n Val | Sta  | n Val | Sta  | n Val |
| 0   | .15   | 8300 | .15   | 8500 | .15   |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 8300           | 8500  | 450           | 450     | 450   | .1    | .3     |        |

|                  |       |      |
|------------------|-------|------|
| Ineffective Flow | num=  | 1    |
| Sta L            | Sta R | Elev |
| 0                | 4350  | 670  |
|                  |       | F    |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |           |            |
|--------------------|-------------|------------------------|-------------|-----------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel   | Right OB   |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150     | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 450.00      | 450.00    | 450.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 978765.70   | 33140.14  | 276961.60  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 978765.70   | 33140.14  | 276961.60  |
| Q Total (cfs)      | 87601.70    | Flow (cfs)             | 65933.52    | 2778.18   | 18890.00   |
| Top width (ft)     | 10800.00    | Top width (ft)         | 8300.00     | 200.00    | 2300.00    |
| Vel Total (ft/s)   | 0.07        | Avg. Vel. (ft/s)       | 0.07        | 0.08      | 0.07       |
| Max Chl Dpth (ft)  | 169.20      | Hydr. Depth (ft)       | 117.92      | 165.70    | 120.42     |
| Conv. Total (cfs)  | 308350800.0 | Conv. (cfs)            | 232080500.0 | 9778965.0 | 66491240.0 |
| Length Wtd. (ft)   | 450.00      | wetted Per. (ft)       | 8357.85     | 203.85    | 2321.44    |
| Min Ch El (ft)     | 606.00      | Shear (lb/sq ft)       | 0.00        | 0.00      | 0.00       |
| Alpha              | 1.00        | Stream Power (lb/ft s) | 0.00        | 0.00      | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 325215.30   | 15868.79  | 120244.60  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 2501.54     | 87.49     | 901.56     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 13054

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## INPUT

## Description:

| Station | Elevation | Data | num= | 21   | Sta | Elev  | Sta | Elev  | Sta | Elev |
|---------|-----------|------|------|------|-----|-------|-----|-------|-----|------|
| 0       | 720       | 1100 | 670  | 1500 | 660 | 2000  | 650 | 2700  | 650 |      |
| 2900    | 660       | 3200 | 660  | 3700 | 670 | 5200  | 670 | 6100  | 660 |      |
| 6800    | 640       | 7200 | 628  | 7500 | 628 | 8300  | 620 | 8350  | 604 |      |
| 8450    | 604       | 8500 | 620  | 9600 | 620 | 10000 | 630 | 10600 | 770 |      |
| 10800   | 770       |      |      |      |     |       |     |       |     |      |

## Manning's n Values

| Sta | n Val | Sta  | num= | 3    | Sta | n Val |
|-----|-------|------|------|------|-----|-------|
| 0   | .15   | 8300 | .15  | 8500 | .15 |       |

| Bank Sta: | Left | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|------|-------|----------|--------------|-------|-------|--------|--------|
| 8300      | 8500 | 341   | 341      | 341          |       | .1    | .3     |        |

| Ineffective Flow | num=      | 1 |
|------------------|-----------|---|
| Sta L Sta R Elev | Permanent | F |
| 0 4350 670       |           |   |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel   | Right OB   |
|--------------------|-------------|------------------------|-------------|-----------|------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150     | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 341.00      | 341.00    | 341.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 959965.70   | 33440.14  | 276961.60  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 959965.70   | 33440.14  | 276961.60  |
| Q Total (cfs)      | 87571.05    | Flow (cfs)             | 65355.61    | 2876.46   | 19338.99   |
| Top width (ft)     | 10800.00    | Top width (ft)         | 8300.00     | 200.00    | 2300.00    |
| Vel Total (ft/s)   | 0.07        | Avg. Vel. (ft/s)       | 0.07        | 0.09      | 0.07       |
| Max Chl Dpth (ft)  | 171.20      | Hydr. Depth (ft)       | 115.66      | 167.20    | 120.42     |
| Conv. Total (cfs)  | 301086400.0 | Conv. (cfs)            | 224705400.0 | 9889814.0 | 66491240.0 |
| Length Wtd. (ft)   | 341.00      | Wetted Per. (ft)       | 8357.47     | 205.00    | 2321.44    |
| Min Ch El (ft)     | 604.00      | Shear (lb/sq ft)       | 0.00        | 0.00      | 0.00       |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00      | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 315201.20   | 15524.89  | 117383.50  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 2415.80     | 85.43     | 877.80     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 12713

## INPUT

## Description:

| Station | Elevation | Data | num= | 19   | Sta | Elev  | Sta | Elev | Sta | Elev |
|---------|-----------|------|------|------|-----|-------|-----|------|-----|------|
| 0       | 720       | 800  | 670  | 1700 | 655 | 2000  | 652 | 2400 | 655 |      |
| 3200    | 670       | 3600 | 670  | 4000 | 675 | 4800  | 675 | 5800 | 660 |      |
| 7100    | 630       | 7600 | 630  | 8200 | 620 | 8250  | 603 | 8350 | 603 |      |
| 8400    | 620       | 9500 | 620  | 9800 | 630 | 10200 | 765 |      |     |      |

## Manning's n Values

| Sta | n Val | Sta  | num= | 3    | Sta | n Val |
|-----|-------|------|------|------|-----|-------|
| 0   | .15   | 8200 | .15  | 8400 | .15 |       |

| Bank Sta: | Left | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|------|-------|----------|--------------|-------|-------|--------|--------|
| 8200      | 8400 | 412   | 412      | 412          |       | .1    | .3     |        |

| Ineffective Flow | num=      | 1 |
|------------------|-----------|---|
| Sta L Sta R Elev | Permanent | F |
| 0 4200 670       |           |   |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel   | Right OB   |
|--------------------|-------------|------------------------|-------------|-----------|------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150     | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 412.00      | 412.00    | 412.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 943945.10   | 33590.13  | 246861.10  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 943945.10   | 33590.13  | 246861.10  |
| Q Total (cfs)      | 87548.24    | Flow (cfs)             | 65485.00    | 2956.47   | 19106.77   |
| Top width (ft)     | 10200.00    | Top width (ft)         | 8200.00     | 200.00    | 1800.00    |
| Vel Total (ft/s)   | 0.07        | Avg. Vel. (ft/s)       | 0.07        | 0.09      | 0.08       |
| Max Chl Dpth (ft)  | 172.20      | Hydr. Depth (ft)       | 115.12      | 167.95    | 137.15     |
| Conv. Total (cfs)  | 294453800.0 | Conv. (cfs)            | 220247800.0 | 9943599.0 | 64262410.0 |
| Length Wtd. (ft)   | 412.00      | Wetted Per. (ft)       | 8257.63     | 205.62    | 1832.53    |
| Min Ch El (ft)     | 603.00      | Shear (lb/sq ft)       | 0.00        | 0.00      | 0.00       |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00      | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 307749.00   | 15262.52  | 115333.10  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 2351.22     | 83.86     | 861.75     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 12301

## INPUT

## Description:

| Station | Elevation | Data | num= | 24    | Sta | Elev  | Sta | Elev | Sta | Elev |
|---------|-----------|------|------|-------|-----|-------|-----|------|-----|------|
| 0       | 720       | 600  | 680  | 950   | 660 | 2200  | 660 | 2800 | 662 |      |
| 3200    | 670       | 3600 | 670  | 4000  | 680 | 4800  | 680 | 6000 | 650 |      |
| 7200    | 632       | 7600 | 632  | 8300  | 620 | 8450  | 620 | 8600 | 601 |      |
| 8750    | 601       | 8800 | 620  | 9200  | 620 | 9300  | 610 | 9500 | 610 |      |
| 9650    | 620       | 9800 | 620  | 10400 | 760 | 10600 | 760 |      |     |      |

## Manning's n Values

| Sta | n Val | Sta | num= | 3 | Sta | n Val |
|-----|-------|-----|------|---|-----|-------|
|-----|-------|-----|------|---|-----|-------|

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|                  |       |               |           |       |     |       |        |        |  |
|------------------|-------|---------------|-----------|-------|-----|-------|--------|--------|--|
| 0                | .15   | 8450          | .15       | 8800  | .15 |       |        |        |  |
| Bank Sta: Left   | Right | Lengths: Left | Channel   | Right |     | Coeff | Contr. | Expan. |  |
| 8450             | 8800  | 736           | 736       | 736   |     | .1    | .3     |        |  |
| Ineffective Flow | num=  | 1             |           |       |     |       |        |        |  |
| Sta L            | Sta R | Elev          | Permanent |       |     |       |        |        |  |
| 0                | 4200  | 670           | F         |       |     |       |        |        |  |

CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |            |
|--------------------|-------------|------------------------|-------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB   |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 736.00      | 736.00     | 736.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 974745.30   | 59070.22   | 212611.10  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 974745.30   | 59070.22   | 212611.10  |
| Q Total (cfs)      | 87520.81    | Flow (cfs)             | 67440.27    | 5244.46    | 14836.08   |
| Top width (ft)     | 10600.00    | Top width (ft)         | 8450.00     | 350.00     | 1800.00    |
| Vel Total (ft/s)   | 0.07        | Avg. Vel. (ft/s)       | 0.07        | 0.09       | 0.07       |
| Max Chl Dpth (ft)  | 174.20      | Hydr. Depth (ft)       | 115.35      | 168.77     | 118.12     |
| Conv. Total (cfs)  | 295596100.0 | Conv. (cfs)            | 227775300.0 | 17712840.0 | 50107950.0 |
| Length wtd. (ft)   | 736.00      | Wetted Per. (ft)       | 8507.93     | 354.69     | 1832.15    |
| Min Ch El (ft)     | 601.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00       |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 298675.30   | 14824.32   | 113160.20  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 2272.48     | 81.26      | 844.73     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 11565

## INPUT

## Description:

|         |           |       |      |       |      |      |      |      |      |
|---------|-----------|-------|------|-------|------|------|------|------|------|
| Station | Elevation | Data  | num= | 23    |      |      |      |      |      |
| Sta     | Elev      | Sta   | Elev | Sta   | Elev | Sta  | Elev | Sta  | Elev |
| 0       | 720       | 800   | 668  | 850   | 670  | 1200 | 670  | 2000 | 660  |
| 2800    | 660       | 3200  | 670  | 3900  | 680  | 5200 | 680  | 5900 | 650  |
| 6800    | 632       | 7100  | 628  | 7400  | 628  | 8300 | 622  | 8500 | 618  |
| 8800    | 618       | 9000  | 617  | 9050  | 600  | 9200 | 600  | 9400 | 620  |
| 10100   | 620       | 10800 | 730  | 11600 | 755  |      |      |      |      |

## Manning's n Values

|     |       |      |       |      |       |
|-----|-------|------|-------|------|-------|
| Sta | n Val | Sta  | n Val | Sta  | n Val |
| 0   | .15   | 9000 | .15   | 9400 | .15   |

|                  |       |               |           |       |       |        |        |
|------------------|-------|---------------|-----------|-------|-------|--------|--------|
| Bank Sta: Left   | Right | Lengths: Left | Channel   | Right | Coeff | Contr. | Expan. |
| 9000             | 9400  | 154           | 154       | 154   | .1    | .3     |        |
| Ineffective Flow | num=  | 1             |           |       |       |        |        |
| Sta L            | Sta R | Elev          | Permanent |       |       |        |        |
| 0                | 3200  | 670           | F         |       |       |        |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |            |
|--------------------|-------------|------------------------|-------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB   |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 154.00      | 154.00     | 154.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1055954.00  | 67655.20   | 204941.10  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1055954.00  | 67655.20   | 204941.10  |
| Q Total (cfs)      | 87470.11    | Flow (cfs)             | 70129.69    | 5722.29    | 11618.13   |
| Top width (ft)     | 11600.00    | Top width (ft)         | 9000.00     | 400.00     | 2200.00    |
| Vel Total (ft/s)   | 0.07        | Avg. Vel. (ft/s)       | 0.07        | 0.08       | 0.06       |
| Max Chl Dpth (ft)  | 175.20      | Hydr. Depth (ft)       | 117.33      | 169.14     | 93.16      |
| Conv. Total (cfs)  | 311347600.0 | Conv. (cfs)            | 249624800.0 | 20368340.0 | 41354440.0 |
| Length wtd. (ft)   | 154.00      | Wetted Per. (ft)       | 9058.10     | 403.81     | 2229.18    |
| Min Ch El (ft)     | 600.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00       |
| Alpha              | 1.02        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 281519.80   | 13753.73   | 109632.70  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 2125.06     | 74.92      | 810.94     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 11411

## INPUT

## Description:

|         |           |       |      |       |      |      |      |      |      |
|---------|-----------|-------|------|-------|------|------|------|------|------|
| Station | Elevation | Data  | num= | 23    |      |      |      |      |      |
| Sta     | Elev      | Sta   | Elev | Sta   | Elev | Sta  | Elev | Sta  | Elev |
| 0       | 720       | 600   | 675  | 1000  | 670  | 1400 | 670  | 2000 | 660  |
| 2800    | 660       | 3200  | 670  | 3900  | 680  | 5200 | 680  | 5900 | 650  |
| 6800    | 632       | 7100  | 628  | 7400  | 628  | 8300 | 622  | 8500 | 618  |
| 8800    | 618       | 9000  | 617  | 9050  | 599  | 9200 | 599  | 9400 | 620  |
| 10100   | 620       | 10800 | 730  | 11600 | 755  |      |      |      |      |

## Manning's n Values

|     |       |      |       |      |       |
|-----|-------|------|-------|------|-------|
| Sta | n Val | Sta  | n Val | Sta  | n Val |
| 0   | .15   | 9000 | .15   | 9400 | .15   |

|                  |       |               |           |       |       |        |        |
|------------------|-------|---------------|-----------|-------|-------|--------|--------|
| Bank Sta: Left   | Right | Lengths: Left | Channel   | Right | Coeff | Contr. | Expan. |
| 9000             | 9400  | 409           | 409       | 409   | .1    | .3     |        |
| Ineffective Flow | num=  | 1             |           |       |       |        |        |
| Sta L            | Sta R | Elev          | Permanent |       |       |        |        |
| 0                | 3400  | 670           | F         |       |       |        |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                |        |            |         |         |          |
|----------------|--------|------------|---------|---------|----------|
| E.G. Elev (ft) | 775.20 | Element    | Left OB | Channel | Right OB |
| Vel Head (ft)  | 0.00   | wt. n-Val. | 0.150   | 0.150   | 0.150    |



|                    |             |                        |              |            |            |
|--------------------|-------------|------------------------|--------------|------------|------------|
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | TXU_Rev1.rep | 409.00     | 409.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1056603.00   | 67930.15   | 204940.80  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1056603.00   | 67930.15   | 204940.80  |
| Q Total (cfs)      | 87459.28    | Flow (cfs)             | 70107.46     | 5749.28    | 11602.54   |
| Top width (ft)     | 11600.00    | Top width (ft)         | 9000.00      | 400.00     | 2200.00    |
| Vel Total (ft/s)   | 0.07        | Avg. Vel. (ft/s)       | 0.07         | 0.08       | 0.06       |
| Max Chl Dpth (ft)  | 176.20      | Hydr. Depth (ft)       | 117.40       | 169.83     | 93.15      |
| Conv. Total (cfs)  | 311726600.0 | Conv. (cfs)            | 249880400.0  | 20491860.0 | 41354340.0 |
| Length wtd. (ft)   | 409.00      | wetted Per. (ft)       | 9058.11      | 404.24     | 2229.18    |
| Min Ch El (ft)     | 599.00      | Shear (lb/sq ft)       | 0.00         | 0.00       | 0.00       |
| Alpha              | 1.02        | Stream Power (lb/ft s) | 0.00         | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 277785.40    | 13514.06   | 108908.20  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 2093.24      | 73.51      | 803.16     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 11002

## INPUT

## Description:

|         |           |       |      |       |      |      |      |      |      |
|---------|-----------|-------|------|-------|------|------|------|------|------|
| Station | Elevation | Data  | num= | 18    |      |      |      |      |      |
| Sta     | Elev      | Sta   | Elev | Sta   | Elev | Sta  | Elev | Sta  | Elev |
| 0       | 740       | 100   | 740  | 1300  | 660  | 2400 | 655  | 3600 | 680  |
| 4500    | 680       | 5200  | 650  | 6400  | 630  | 6800 | 630  | 8100 | 620  |
| 8200    | 618       | 8250  | 601  | 8400  | 598  | 8500 | 598  | 8900 | 620  |
| 9400    | 620       | 10200 | 730  | 10800 | 760  |      |      |      |      |

|             |        |      |       |
|-------------|--------|------|-------|
| Manning's n | Values | num= | 3     |
| Sta         | n Val  | Sta  | n Val |
| 0           | .15    | 8200 | .15   |
|             |        | 8500 | .15   |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 8200           | 8500  | 424           | 424     | 424   | .1    | .3     |        |

|                  |       |      |
|------------------|-------|------|
| Ineffective Flow | num=  | 1    |
| Sta L            | Sta R | Elev |
| 0                | 3550  | 670  |
|                  |       | F    |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |            |
|--------------------|-------------|------------------------|-------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB   |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 424.00      | 424.00     | 424.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 946493.10   | 52360.11   | 242360.90  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 946493.10   | 52360.11   | 242360.90  |
| Q Total (cfs)      | 87431.82    | Flow (cfs)             | 66603.87    | 4838.88    | 15989.08   |
| Top width (ft)     | 10800.00    | Top width (ft)         | 8200.00     | 300.00     | 2300.00    |
| Vel Total (ft/s)   | 0.07        | Avg. Vel. (ft/s)       | 0.07        | 0.09       | 0.07       |
| Max Chl Dpth (ft)  | 177.20      | Hydr. Depth (ft)       | 115.43      | 174.53     | 105.37     |
| Conv. Total (cfs)  | 290861800.0 | Conv. (cfs)            | 221572900.0 | 16097620.0 | 53191290.0 |
| Length wtd. (ft)   | 424.00      | wetted Per. (ft)       | 8239.00     | 302.84     | 2324.08    |
| Min Ch El (ft)     | 598.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00       |
| Alpha              | 1.02        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 268381.60   | 12949.33   | 106808.20  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 2012.49     | 70.22      | 782.03     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 10578

## INPUT

## Description:

|         |           |      |      |      |      |      |      |       |      |
|---------|-----------|------|------|------|------|------|------|-------|------|
| Station | Elevation | Data | num= | 21   |      |      |      |       |      |
| Sta     | Elev      | Sta  | Elev | Sta  | Elev | Sta  | Elev | Sta   | Elev |
| 0       | 750       | 400  | 720  | 800  | 720  | 1800 | 660  | 2000  | 660  |
| 2400    | 650       | 3700 | 660  | 4100 | 680  | 4500 | 680  | 5200  | 650  |
| 6400    | 630       | 7200 | 630  | 7600 | 622  | 8400 | 620  | 8500  | 597  |
| 8600    | 597       | 8650 | 610  | 9400 | 620  | 9900 | 620  | 10400 | 710  |
| 10800   | 750       |      |      |      |      |      |      |       |      |

|             |        |      |       |
|-------------|--------|------|-------|
| Manning's n | Values | num= | 3     |
| Sta         | n Val  | Sta  | n Val |
| 0           | .15    | 8400 | .15   |
|             |        | 8650 | .15   |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 8400           | 8650  | 266           | 266     | 266   | .1    | .3     |        |

|                  |       |      |
|------------------|-------|------|
| Ineffective Flow | num=  | 1    |
| Sta L            | Sta R | Elev |
| 0                | 4200  | 670  |
|                  |       | F    |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |            |
|--------------------|-------------|------------------------|-------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB   |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 266.00      | 266.00     | 266.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 969482.70   | 43075.08   | 270930.70  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 969482.70   | 43075.08   | 270930.70  |
| Q Total (cfs)      | 87404.56    | Flow (cfs)             | 64680.50    | 3720.40    | 19003.66   |
| Top width (ft)     | 10800.00    | Top width (ft)         | 8400.00     | 250.00     | 2150.00    |
| Vel Total (ft/s)   | 0.07        | Avg. Vel. (ft/s)       | 0.07        | 0.09       | 0.07       |
| Max Chl Dpth (ft)  | 178.20      | Hydr. Depth (ft)       | 115.41      | 172.30     | 126.01     |
| Conv. Total (cfs)  | 306919300.0 | Conv. (cfs)            | 227124200.0 | 13064120.0 | 66730940.0 |
| Length wtd. (ft)   | 266.00      | wetted Per. (ft)       | 8429.68     | 254.27     | 2185.30    |
| Min Ch El (ft)     | 597.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00       |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 259056.80   | 12484.86   | 104310.10  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 1931.70     | 67.55      | 760.38     |

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Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 10312

## INPUT

## Description:

| Station | Elevation | Data  | num= | 24    | Elev | Sta   | Elev | Sta  | Elev | Sta | Elev |
|---------|-----------|-------|------|-------|------|-------|------|------|------|-----|------|
| Sta     | Elev      | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta  | Elev | Sta | Elev |
| 0       | 730       | 400   | 710  | 600   | 710  | 700   | 700  | 1100 | 700  |     |      |
| 2400    | 660       | 2600  | 650  | 3600  | 650  | 4400  | 680  | 4800 | 680  |     |      |
| 5600    | 648       | 6200  | 630  | 7400  | 630  | 8000  | 620  | 8400 | 620  |     |      |
| 8600    | 610       | 8650  | 596  | 8700  | 596  | 8750  | 610  | 9300 | 615  |     |      |
| 9700    | 620       | 10200 | 620  | 10800 | 710  | 11700 | 750  |      |      |     |      |

## Manning's n Values

| Sta | n Val | Sta  | n Val | Sta  | n Val |
|-----|-------|------|-------|------|-------|
| 0   | .15   | 8600 | .15   | 8750 | .15   |

| Bank Sta: | Left | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|------|-------|----------|--------------|-------|-------|--------|--------|
| 8600      | 8750 | 289   | 289      | 289          |       | .1    | .3     |        |

| Ineffective Flow | num=  | 1    |
|------------------|-------|------|
| Sta L            | Sta R | Elev |
| 0                | 4400  | 670  |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel   | Right OB   |
|--------------------|-------------|------------------------|-------------|-----------|------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150     | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 289.00      | 289.00    | 289.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1000623.00  | 26180.05  | 336965.90  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1000623.00  | 26180.05  | 336965.90  |
| Q Total (cfs)      | 87387.51    | Flow (cfs)             | 64006.87    | 2165.92   | 21214.73   |
| Top width (ft)     | 11700.00    | Top width (ft)         | 8600.00     | 150.00    | 2950.00    |
| Vel Total (ft/s)   | 0.06        | Avg. Vel. (ft/s)       | 0.06        | 0.08      | 0.06       |
| Max Chl Dpth (ft)  | 179.20      | Hydr. Depth (ft)       | 116.35      | 174.53    | 114.23     |
| Conv. Total (cfs)  | 321320000.0 | Conv. (cfs)            | 235350400.0 | 7963984.0 | 78005610.0 |
| Length wtd. (ft)   | 289.00      | wetted Per. (ft)       | 8648.87     | 153.85    | 2982.86    |
| Min Ch El (ft)     | 596.00      | Shear (lb/sq ft)       | 0.00        | 0.00      | 0.00       |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00      | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 253041.50   | 12273.41  | 102454.10  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 1879.80     | 66.33     | 744.80     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 10023

## INPUT

## Description:

| Station | Elevation | Data | num= | 24   | Elev | Sta   | Elev | Sta  | Elev |
|---------|-----------|------|------|------|------|-------|------|------|------|
| Sta     | Elev      | Sta  | Elev | Sta  | Elev | Sta   | Elev | Sta  | Elev |
| 0       | 730       | 800  | 680  | 1600 | 658  | 2200  | 649  | 2800 | 645  |
| 3100    | 649       | 3500 | 680  | 3700 | 680  | 4000  | 660  | 5200 | 630  |
| 5800    | 630       | 6000 | 628  | 6000 | 630  | 6600  | 630  | 7200 | 620  |
| 7400    | 610       | 7450 | 595  | 7575 | 595  | 7600  | 610  | 7800 | 612  |
| 8500    | 615       | 8900 | 620  | 9300 | 620  | 10400 | 745  |      |      |

## Manning's n Values

| Sta | n Val | Sta  | n Val | Sta  | n Val |
|-----|-------|------|-------|------|-------|
| 0   | .15   | 7400 | .15   | 7600 | .15   |

| Bank Sta: | Left | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|------|-------|----------|--------------|-------|-------|--------|--------|
| 7400      | 7600 | 832   | 832      | 832          |       | .1    | .3     |        |

| Ineffective Flow | num=  | 1    |
|------------------|-------|------|
| Sta L            | Sta R | Elev |
| 0                | 3550  | 670  |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB   |
|--------------------|-------------|------------------------|-------------|------------|------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 832.00      | 832.00     | 832.00     |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 906282.30   | 35477.56   | 373160.90  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 906282.30   | 35477.56   | 373160.90  |
| Q Total (cfs)      | 87368.82    | Flow (cfs)             | 58909.41    | 2904.66    | 25554.75   |
| Top width (ft)     | 10400.00    | Top width (ft)         | 7400.00     | 200.00     | 2800.00    |
| Vel Total (ft/s)   | 0.07        | Avg. Vel. (ft/s)       | 0.07        | 0.08       | 0.07       |
| Max Chl Dpth (ft)  | 180.20      | Hydr. Depth (ft)       | 122.47      | 177.39     | 133.27     |
| Conv. Total (cfs)  | 326845500.0 | Conv. (cfs)            | 220379200.0 | 10866300.0 | 95599970.0 |
| Length wtd. (ft)   | 832.00      | wetted Per. (ft)       | 7451.76     | 206.36     | 2837.33    |
| Min Ch El (ft)     | 595.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00       |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 246715.80   | 12068.88   | 100098.40  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 1826.72     | 65.17      | 725.73     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 9191

## INPUT

## Description:

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|----------------------------------------------------------------------|-------------|------------------------|-------------|-----------|-------------|-------|------|-------|------|--|
| Station                                                              | Elevation   | Data                   | num=        | 25        |             |       |      |       |      |  |
| Sta                                                                  | Elev        | Sta                    | Elev        | Sta       | Elev        | Sta   | Elev | Sta   | Elev |  |
| 0                                                                    | 730         | 400                    | 720         | 800       | 730         | 2000  | 677  | 3600  | 640  |  |
| 4400                                                                 | 640         | 4600                   | 654         | 5200      | 640         | 5600  | 640  | 6300  | 630  |  |
| 6400                                                                 | 630         | 6800                   | 620         | 7100      | 620         | 7950  | 612  | 8050  | 612  |  |
| 8200                                                                 | 610         | 8250                   | 594         | 8300      | 594         | 8350  | 610  | 9800  | 618  |  |
| 10000                                                                | 620         | 10300                  | 630         | 10900     | 700         | 11100 | 690  | 11900 | 740  |  |
| Manning's n Values                                                   |             |                        |             |           |             |       |      |       |      |  |
| Sta                                                                  | n Val       | Sta                    | n Val       | Sta       | n Val       |       |      |       |      |  |
| 0                                                                    | .15         | 8250                   | .15         | 8350      | .15         |       |      |       |      |  |
| Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan. |             |                        |             |           |             |       |      |       |      |  |
|                                                                      | 8250        | 8350                   |             | 382       | 382         | 382   |      | .1    | .3   |  |
| Ineffective Flow num= 1                                              |             |                        |             |           |             |       |      |       |      |  |
| Sta L                                                                | Sta R       | Elev                   | Permanent   |           |             |       |      |       |      |  |
| 0                                                                    | 4660        | 670                    | F           |           |             |       |      |       |      |  |
| CROSS SECTION OUTPUT Profile #Max WS                                 |             |                        |             |           |             |       |      |       |      |  |
| E.G. Elev (ft)                                                       | 775.20      | Element                | Left OB     | Channel   | Right OB    |       |      |       |      |  |
| Vel Head (ft)                                                        | 0.00        | wt. n-Val.             | 0.150       | 0.150     | 0.150       |       |      |       |      |  |
| W.S. Elev (ft)                                                       | 775.20      | Reach Len. (ft)        | 382.00      | 382.00    | 382.00      |       |      |       |      |  |
| Crit W.S. (ft)                                                       |             | Flow Area (sq ft)      | 981950.50   | 17720.01  | 440360.30   |       |      |       |      |  |
| E.G. Slope (ft/ft)                                                   | 0.000000    | Area (sq ft)           | 981950.50   | 17720.01  | 440360.30   |       |      |       |      |  |
| Q Total (cfs)                                                        | 87314.35    | Flow (cfs)             | 58895.04    | 1368.66   | 27050.65    |       |      |       |      |  |
| Top width (ft)                                                       | 11900.00    | Top width (ft)         | 8250.00     | 100.00    | 3550.00     |       |      |       |      |  |
| Vel Total (ft/s)                                                     | 0.06        | Avg. Vel. (ft/s)       | 0.06        | 0.08      | 0.06        |       |      |       |      |  |
| Max Chl Dpth (ft)                                                    | 181.20      | Hydr. Depth (ft)       | 119.02      | 177.20    | 124.05      |       |      |       |      |  |
| Conv. Total (cfs)                                                    | 347530200.0 | Conv. (cfs)            | 234415100.0 | 5447550.0 | 107667500.0 |       |      |       |      |  |
| Length wtd. (ft)                                                     | 382.00      | wetted Per. (ft)       | 8300.45     | 102.50    | 3591.28     |       |      |       |      |  |
| Min Ch El (ft)                                                       | 594.00      | Shear (lb/sq ft)       | 0.00        | 0.00      | 0.00        |       |      |       |      |  |
| Alpha                                                                | 1.00        | Stream Power (lb/ft s) | 0.00        | 0.00      | 0.00        |       |      |       |      |  |
| Frctn Loss (ft)                                                      | 0.00        | Cum Volume (acre-ft)   | 228683.10   | 11560.84  | 92329.22    |       |      |       |      |  |
| C & E Loss (ft)                                                      |             | Cum SA (acres)         | 1677.26     | 62.30     | 665.09      |       |      |       |      |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 8809

INPUT  
Description:

| Station | Elevation | Data  | num= | 33    |      |       |      |       |      |  |
|---------|-----------|-------|------|-------|------|-------|------|-------|------|--|
| Sta     | Elev      | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev |  |
| 0       | 728       | 800   | 700  | 950   | 700  | 1000  | 690  | 1600  | 690  |  |
| 1625    | 680       | 2000  | 680  | 3200  | 650  | 3500  | 650  | 4000  | 640  |  |
| 4400    | 640       | 4700  | 630  | 5000  | 628  | 5200  | 632  | 5600  | 630  |  |
| 6000    | 628       | 6500  | 628  | 6600  | 623  | 7200  | 618  | 8400  | 616  |  |
| 8800    | 610       | 9000  | 610  | 9100  | 593  | 9150  | 593  | 9200  | 610  |  |
| 10900   | 620       | 11200 | 630  | 11300 | 630  | 11600 | 700  | 11900 | 700  |  |
| 12100   | 680       | 12800 | 735  | 13000 | 730  |       |      |       |      |  |

|                    |       |      |       |      |       |  |  |  |  |  |
|--------------------|-------|------|-------|------|-------|--|--|--|--|--|
| Manning's n Values |       |      |       |      |       |  |  |  |  |  |
| Sta                | n Val | Sta  | n Val | Sta  | n Val |  |  |  |  |  |
| 0                  | .15   | 9000 | .15   | 9200 | .15   |  |  |  |  |  |

|                                                                      |       |      |           |     |     |     |  |    |    |  |
|----------------------------------------------------------------------|-------|------|-----------|-----|-----|-----|--|----|----|--|
| Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan. |       |      |           |     |     |     |  |    |    |  |
|                                                                      | 9000  | 9200 |           | 527 | 527 | 527 |  | .1 | .3 |  |
| Ineffective Flow num= 1                                              |       |      |           |     |     |     |  |    |    |  |
| Sta L                                                                | Sta R | Elev | Permanent |     |     |     |  |    |    |  |
| 0                                                                    | 5800  | 670  | F         |     |     |     |  |    |    |  |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |  |  |  |  |  |
|--------------------|-------------|------------------------|-------------|------------|-------------|--|--|--|--|--|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |  |  |  |  |  |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |  |  |  |  |  |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 527.00      | 527.00     | 527.00      |  |  |  |  |  |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1142576.00  | 35165.02   | 460510.30   |  |  |  |  |  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1142576.00  | 35165.02   | 460510.30   |  |  |  |  |  |
| Q Total (cfs)      | 87287.41    | Flow (cfs)             | 61201.20    | 2316.58    | 23769.63    |  |  |  |  |  |
| Top width (ft)     | 13000.00    | Top width (ft)         | 9000.00     | 200.00     | 3800.00     |  |  |  |  |  |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.07       | 0.05        |  |  |  |  |  |
| Max Chl Dpth (ft)  | 182.20      | Hydr. Depth (ft)       | 126.95      | 175.83     | 121.19      |  |  |  |  |  |
| Conv. Total (cfs)  | 406215900.0 | Conv. (cfs)            | 284816500.0 | 10780860.0 | 110618500.0 |  |  |  |  |  |
| Length wtd. (ft)   | 527.00      | wetted Per. (ft)       | 9051.50     | 204.25     | 3856.67     |  |  |  |  |  |
| Min Ch El (ft)     | 593.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |  |  |  |  |  |
| Alpha              | 1.00        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |  |  |  |  |  |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 219367.60   | 11328.95   | 88379.12    |  |  |  |  |  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 1601.63     | 60.99      | 632.86      |  |  |  |  |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 8282

INPUT  
Description:

| Station | Elevation | Data  | num= | 31    |      |       |      |       |      |  |
|---------|-----------|-------|------|-------|------|-------|------|-------|------|--|
| Sta     | Elev      | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev |  |
| 0       | 725       | 800   | 705  | 1000  | 708  | 1400  | 690  | 1500  | 690  |  |
| 1900    | 700       | 2800  | 660  | 3100  | 660  | 3200  | 656  | 4000  | 640  |  |
| 4500    | 640       | 4800  | 630  | 6400  | 630  | 6700  | 619  | 7200  | 611  |  |
| 7600    | 611       | 8500  | 609  | 9100  | 609  | 9150  | 592  | 9200  | 592  |  |
| 9250    | 609       | 9600  | 609  | 10800 | 620  | 11400 | 640  | 11600 | 665  |  |
| 11700   | 648       | 11700 | 650  | 12100 | 650  | 12200 | 660  | 12400 | 660  |  |
| 13200   | 720       |       |      |       |      |       |      |       |      |  |



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|                    |       |      |       |      |       |
|--------------------|-------|------|-------|------|-------|
| Manning's n values |       | num= | 3     |      |       |
| Sta                | n Val | Sta  | n Val | Sta  | n Val |
| 0                  | .15   | 9100 | .15   | 9250 | .15   |

  

|           |      |       |          |              |       |       |        |        |
|-----------|------|-------|----------|--------------|-------|-------|--------|--------|
| Bank Sta: | Left | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|           | 9100 | 9250  |          | 604          | 604   |       | .1     | .3     |

  

|                  |       |           |
|------------------|-------|-----------|
| Ineffective Flow | num=  | 1         |
| Sta L            | Sta R | Elev      |
| 0                | 6000  | 670       |
|                  |       | Permanent |
|                  |       | F         |

  

CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |           |             |
|--------------------|-------------|------------------------|-------------|-----------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel   | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150     | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 604.00      | 604.00    | 604.00      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1148071.00  | 26630.01  | 527840.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1148071.00  | 26630.01  | 527840.30   |
| Q Total (cfs)      | 87247.30    | Flow (cfs)             | 58047.02    | 1656.15   | 27544.13    |
| Top width (ft)     | 13200.00    | Top width (ft)         | 9100.00     | 150.00    | 3950.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06      | 0.05        |
| Max Chl Dpth (ft)  | 183.20      | Hydr. Depth (ft)       | 126.16      | 177.53    | 133.63      |
| Conv. Total (cfs)  | 428346400.0 | Conv. (cfs)            | 284985700.0 | 8130967.0 | 135229700.0 |
| Length wtd. (ft)   | 604.00      | wetted Per. (ft)       | 9152.57     | 155.62    | 4013.32     |
| Min Ch El (ft)     | 592.00      | Shear (lb/sq ft)       | 0.00        | 0.00      | 0.00        |
| Alpha              | 1.00        | Stream Power (lb/ft s) | 0.00        | 0.00      | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 205511.20   | 10955.14  | 82400.46    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 1492.14     | 58.87     | 585.98      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

#### CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 7678

#### INPUT

##### Description:

|         |           |       |      |       |
|---------|-----------|-------|------|-------|
| Station | Elevation | Data  | num= | 29    |
| Sta     | Elev      | Sta   | Elev | Sta   |
| 0       | 720       | 400   | 704  | 800   |
| 3200    | 640       | 3500  | 640  | 4000  |
| 5500    | 630       | 5900  | 620  | 6700  |
| 8350    | 600       | 8400  | 591  | 8600  |
| 9600    | 609       | 10300 | 620  | 10500 |
| 12000   | 696       | 12400 | 670  | 12600 |

|                    |       |      |       |
|--------------------|-------|------|-------|
| Manning's n values |       | num= | 3     |
| Sta                | n Val | Sta  | n Val |
| 0                  | .15   | 8350 | .15   |

|           |      |       |          |              |       |       |        |        |
|-----------|------|-------|----------|--------------|-------|-------|--------|--------|
| Bank Sta: | Left | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|           | 8350 | 8700  |          | 308          | 308   |       | .1     | .3     |

  

|                  |       |           |
|------------------|-------|-----------|
| Ineffective Flow | num=  | 1         |
| Sta L            | Sta R | Elev      |
| 0                | 5200  | 670       |
|                  |       | Permanent |
|                  |       | F         |

#### CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 308.00      | 308.00     | 308.00      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1082045.00  | 63795.00   | 570560.10   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1082045.00  | 63795.00   | 570560.10   |
| Q Total (cfs)      | 87201.01    | Flow (cfs)             | 54290.51    | 4027.57    | 28882.93    |
| Top width (ft)     | 13000.00    | Top width (ft)         | 8350.00     | 350.00     | 4300.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 184.20      | Hydr. Depth (ft)       | 129.59      | 182.27     | 132.69      |
| Conv. Total (cfs)  | 438851500.0 | Conv. (cfs)            | 273224700.0 | 20269310.0 | 145357500.0 |
| Length wtd. (ft)   | 308.00      | wetted Per. (ft)       | 8407.94     | 351.21     | 4374.75     |
| Min Ch El (ft)     | 591.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 190049.90   | 10328.23   | 74785.29    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 1371.16     | 55.40      | 528.78      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

#### CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 7370

#### INPUT

##### Description:

|         |           |      |      |       |
|---------|-----------|------|------|-------|
| Station | Elevation | Data | num= | 26    |
| Sta     | Elev      | Sta  | Elev | Sta   |
| 0       | 715       | 800  | 671  | 1000  |
| 2000    | 640       | 2400 | 640  | 2800  |
| 4800    | 620       | 5000 | 610  | 6400  |
| 7600    | 590       | 7700 | 590  | 7800  |
| 8800    | 610       | 9700 | 620  | 10700 |
| 12000   | 730       |      |      |       |

|                    |       |      |       |
|--------------------|-------|------|-------|
| Manning's n values |       | num= | 3     |
| Sta                | n Val | Sta  | n Val |
| 0                  | .15   | 7550 | .15   |

|           |      |       |          |              |       |       |        |        |
|-----------|------|-------|----------|--------------|-------|-------|--------|--------|
| Bank Sta: | Left | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|           | 7550 | 7800  |          | 671          | 671   |       | .1     | .3     |

  

|                  |       |           |
|------------------|-------|-----------|
| Ineffective Flow | num=  | 1         |
| Sta L            | Sta R | Elev      |
| 0                | 4000  | 670       |
|                  |       | Permanent |
|                  |       | F         |

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CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 671.00      | 671.00     | 671.00      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1075760.00  | 45550.00   | 534340.10   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1075760.00  | 45550.00   | 534340.10   |
| Q Total (cfs)      | 87178.20    | Flow (cfs)             | 57753.21    | 2885.41    | 26539.58    |
| Top width (ft)     | 12000.00    | Top width (ft)         | 7550.00     | 250.00     | 4200.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 185.20      | Hydr. Depth (ft)       | 142.48      | 182.20     | 127.22      |
| Conv. Total (cfs)  | 436421200.0 | Conv. (cfs)            | 289117200.0 | 14444590.0 | 132859300.0 |
| Length wtd. (ft)   | 671.00      | Wetted Per. (ft)       | 7612.61     | 251.49     | 4249.25     |
| Min Ch El (ft)     | 590.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 182421.30   | 9941.66    | 70879.08    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 1314.94     | 53.28      | 498.73      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 6699

## INPUT

## Description:

| Station | Elevation | Data | num= | 26   |      |       |      |       |      |  |
|---------|-----------|------|------|------|------|-------|------|-------|------|--|
| Sta     | Elev      | Sta  | Elev | Sta  | Elev | Sta   | Elev | Sta   | Elev |  |
| 0       | 716       | 800  | 676  | 1600 | 650  | 1800  | 650  | 2200  | 640  |  |
| 2600    | 640       | 3000 | 629  | 3600 | 629  | 3800  | 632  | 4400  | 620  |  |
| 4800    | 620       | 5200 | 614  | 5400 | 614  | 5600  | 610  | 6900  | 610  |  |
| 7400    | 605       | 7700 | 600  | 8000 | 600  | 8100  | 589  | 8300  | 589  |  |
| 8400    | 600       | 8800 | 610  | 9600 | 610  | 10800 | 638  | 11400 | 638  |  |
| 12200   | 720       |      |      |      |      |       |      |       |      |  |

## Manning's n values

| Sta | n Val | Sta  | n Val | Sta  | n Val |
|-----|-------|------|-------|------|-------|
| 0   | .15   | 8000 | .15   | 8400 | .15   |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 8000           | 8400  | 838           | 838     | 838   | .1    | .3     |        |

|                  |      |           |
|------------------|------|-----------|
| Ineffective Flow | num= | 1         |
| Sta L Sta R      | Elev | Permanent |
| 0 4000           | 670  | F         |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 838.00      | 838.00     | 838.00      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1140000.00  | 73380.01   | 540960.10   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1140000.00  | 73380.01   | 540960.10   |
| Q Total (cfs)      | 87127.62    | Flow (cfs)             | 56280.53    | 4300.32    | 26546.78    |
| Top width (ft)     | 12200.00    | Top width (ft)         | 8000.00     | 400.00     | 3800.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 186.20      | Hydr. Depth (ft)       | 142.50      | 183.45     | 142.36      |
| Conv. Total (cfs)  | 474544400.0 | Conv. (cfs)            | 306534400.0 | 23421870.0 | 144588200.0 |
| Length wtd. (ft)   | 838.00      | Wetted Per. (ft)       | 8061.19     | 401.21     | 3859.84     |
| Min Ch El (ft)     | 589.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.00        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 165355.50   | 9025.66    | 62597.09    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 1195.18     | 48.27      | 437.12      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 5861

## INPUT

## Description:

| Station | Elevation | Data  | num= | 32    |      |       |      |       |      |  |
|---------|-----------|-------|------|-------|------|-------|------|-------|------|--|
| Sta     | Elev      | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev |  |
| 0       | 718       | 800   | 680  | 1600  | 652  | 2000  | 640  | 2200  | 640  |  |
| 2400    | 645       | 2700  | 645  | 3000  | 638  | 3300  | 638  | 3400  | 640  |  |
| 4000    | 640       | 4100  | 630  | 4400  | 630  | 4800  | 620  | 6400  | 610  |  |
| 7400    | 610       | 8000  | 600  | 8350  | 600  | 8400  | 588  | 8600  | 588  |  |
| 8700    | 600       | 9100  | 600  | 9600  | 610  | 10700 | 610  | 10900 | 620  |  |
| 11100   | 620       | 11200 | 628  | 11300 | 620  | 11700 | 620  | 11800 | 630  |  |
| 12400   | 630       | 13200 | 733  |       |      |       |      |       |      |  |

## Manning's n values

| Sta | n Val | Sta  | n Val | Sta  | n Val |
|-----|-------|------|-------|------|-------|
| 0   | .15   | 8350 | .15   | 8700 | .15   |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 8350           | 8700  | 667           | 667     | 667   | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                   |             |            |             |
|--------------------|-------------|-------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element           | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.        | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)   | 667.00      | 667.00     | 667.00      |
| Crit W.S. (ft)     |             | Flow Area (sq ft) | 1171270.00  | 64620.00   | 669400.10   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)      | 1171270.00  | 64620.00   | 669400.10   |
| Q Total (cfs)      | 87059.56    | Flow (cfs)        | 52475.20    | 3479.49    | 31104.88    |
| Top width (ft)     | 13200.00    | Top width (ft)    | 8350.00     | 350.00     | 4500.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)  | 0.04        | 0.05       | 0.05        |
| Max Chl Dpth (ft)  | 187.20      | Hydr. Depth (ft)  | 140.27      | 184.63     | 148.76      |
| Conv. Total (cfs)  | 517220000.0 | Conv. (cfs)       | 311754600.0 | 20671610.0 | 184793800.0 |

|                  |        |                        |              |         |          |
|------------------|--------|------------------------|--------------|---------|----------|
| Length Wtd. (ft) | 667.00 | Wetted Per. (ft)       | TXU_Rev1.rep |         |          |
| Min Ch El (ft)   | 588.00 | Shear (lb/sq ft)       | 8409.67      | 352.14  | 4550.29  |
| Alpha            | 1.00   | Stream Power (lb/ft s) | 0.00         | 0.00    | 0.00     |
| Frctn Loss (ft)  | 0.00   | Cum Volume (acre-ft)   | 143123.50    | 7698.25 | 50954.74 |
| C & E Loss (ft)  |        | Cum SA (acres)         | 1037.91      | 41.06   | 357.28   |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 5194

## INPUT

## Description:

| Station | Elevation | Data  | num= | 31    |      |       |      |       |      |  |
|---------|-----------|-------|------|-------|------|-------|------|-------|------|--|
| Sta     | Elev      | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev |  |
| 0       | 718       | 800   | 678  | 900   | 670  | 1200  | 670  | 1500  | 660  |  |
| 1600    | 660       | 2000  | 642  | 2200  | 642  | 2400  | 649  | 2800  | 642  |  |
| 3200    | 642       | 3800  | 640  | 4000  | 640  | 4200  | 642  | 5100  | 618  |  |
| 5300    | 618       | 6000  | 612  | 6400  | 610  | 8200  | 610  | 8250  | 587  |  |
| 8400    | 587       | 8650  | 598  | 8800  | 600  | 9700  | 600  | 10000 | 610  |  |
| 10400   | 610       | 10600 | 615  | 10800 | 615  | 11000 | 620  | 11600 | 710  |  |
| 12000   | 750       |       |      |       |      |       |      |       |      |  |

|                    |           |           |
|--------------------|-----------|-----------|
| Manning's n Values | num=      | 3         |
| Sta n Val          | Sta n Val | Sta n Val |
| 0 .15 8200         | .15 8650  | .15       |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 8200           | 8650  | 474           | 474     | 474   | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 474.00      | 474.00     | 474.00      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1127139.00  | 82739.95   | 481569.60   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1127139.00  | 82739.95   | 481569.60   |
| Q Total (cfs)      | 87006.72    | Flow (cfs)             | 56934.12    | 5058.93    | 25013.68    |
| Top width (ft)     | 12000.00    | Top width (ft)         | 8200.00     | 450.00     | 3350.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 188.20      | Hydr. Depth (ft)       | 137.46      | 183.87     | 143.75      |
| Conv. Total (cfs)  | 452278500.0 | Conv. (cfs)            | 295955000.0 | 26297310.0 | 130026100.0 |
| Length Wtd. (ft)   | 474.00      | Wetted Per. (ft)       | 8259.64     | 455.28     | 3384.21     |
| Min Ch El (ft)     | 587.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 125526.70   | 6570.04    | 42142.80    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 911.20      | 34.93      | 297.18      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 4720

## INPUT

## Description:

| Station | Elevation | Data  | num= | 31    |      |       |      |       |      |  |
|---------|-----------|-------|------|-------|------|-------|------|-------|------|--|
| Sta     | Elev      | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev |  |
| 0       | 718       | 1000  | 670  | 1400  | 660  | 1800  | 660  | 2000  | 650  |  |
| 2300    | 650       | 2500  | 655  | 2700  | 655  | 2800  | 650  | 3200  | 650  |  |
| 3600    | 645       | 3900  | 640  | 4000  | 640  | 4200  | 650  | 4400  | 650  |  |
| 4450    | 640       | 5200  | 615  | 5400  | 615  | 6500  | 612  | 6700  | 612  |  |
| 6800    | 610       | 8700  | 610  | 8800  | 585  | 8900  | 585  | 9100  | 600  |  |
| 9600    | 600       | 10800 | 610  | 11600 | 620  | 12000 | 710  | 13000 | 760  |  |
| 13200   | 760       |       |      |       |      |       |      |       |      |  |

|                    |           |           |
|--------------------|-----------|-----------|
| Manning's n Values | num=      | 3         |
| Sta n Val          | Sta n Val | Sta n Val |
| 0 .15 8700         | .15 9100  | .15       |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 8700           | 9100  | 46.5          | 46.5    | 46.5  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 46.50       | 46.50      | 46.50       |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1189513.00  | 73329.93   | 507319.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1189513.00  | 73329.93   | 507319.30   |
| Q Total (cfs)      | 86970.56    | Flow (cfs)             | 59002.30    | 4416.57    | 23551.70    |
| Top width (ft)     | 13200.00    | Top width (ft)         | 8700.00     | 400.00     | 4100.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 190.20      | Hydr. Depth (ft)       | 136.73      | 183.32     | 123.74      |
| Conv. Total (cfs)  | 458843600.0 | Conv. (cfs)            | 311287300.0 | 23301130.0 | 124255200.0 |
| Length Wtd. (ft)   | 46.50       | Wetted Per. (ft)       | 8760.67     | 403.64     | 4126.55     |
| Min Ch El (ft)     | 585.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 112922.30   | 5720.90    | 36762.48    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 819.25      | 30.31      | 256.64      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 4673.5\*



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## INPUT

## Description:

| Station Elevation Data |        |         | num= 50 |          |        | Sta Elev |        |          | Sta Elev |     |      | Sta Elev |      |  |
|------------------------|--------|---------|---------|----------|--------|----------|--------|----------|----------|-----|------|----------|------|--|
| Sta                    | Elev   | Sta     | Elev    | Sta      | Elev   | Sta      | Elev   | Sta      | Elev     | Sta | Elev | Sta      | Elev |  |
| 0                      | 718.2  | 760.87  | 681.52  | 1005.75  | 669.97 | 1236.41  | 663.84 | 1331.52  | 661.91   |     |      |          |      |  |
| 1408.05                | 660.23 | 1616.85 | 660.3   | 1810.34  | 659.42 | 1902.17  | 654.89 | 2011.49  | 650      |     |      |          |      |  |
| 2092.39                | 650    | 2187.5  | 651     | 2313.22  | 651    | 2472.83  | 654.57 | 2514.37  | 655.44   |     |      |          |      |  |
| 2715.52                | 655.14 | 2816.09 | 650.48  | 3218.39  | 649.88 | 3620.69  | 644.78 | 3804.35  | 641.76   |     |      |          |      |  |
| 3922.41                | 640    | 4022.99 | 640     | 4224.14  | 649    | 4375     | 649    | 4425.29  | 648.95   |     |      |          |      |  |
| 4475.57                | 639.89 | 4565.22 | 637.13  | 4755.43  | 629.65 | 5229.89  | 615.08 | 5326.09  | 615      |     |      |          |      |  |
| 5431.03                | 614.93 | 6086.96 | 612.9   | 6537.36  | 611.8  | 6657.61  | 611.8  | 6738.51  | 611.71   |     |      |          |      |  |
| 6839.08                | 609.81 | 6847.83 | 609.8   | 8750     | 609.8  | 8860     | 584.9  | 8960     | 584.9    |     |      |          |      |  |
| 9170                   | 600    | 9651.71 | 600.21  | 10807.8  | 609.72 | 11448.85 | 617.49 | 11578.54 | 619.28   |     |      |          |      |  |
| 11904.62               | 688.54 | 11963.9 | 701.59  | 12816.15 | 749.81 | 12927.32 | 756.28 | 13120    | 758.5    |     |      |          |      |  |

## Manning's n Values

| Sta | n Val | Sta  | n Val | Sta  | n Val |
|-----|-------|------|-------|------|-------|
| 0   | .15   | 8750 | .15   | 9170 | .15   |

| Bank Sta: | Left | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|------|-------|----------|--------------|-------|-------|--------|--------|
|           | 8750 | 9170  |          | 46.5         | 46.5  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 46.50       | 46.50      | 46.50       |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1197468.00  | 76970.92   | 497460.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1197468.00  | 76970.92   | 497460.80   |
| Q Total (cfs)      | 86966.95    | Flow (cfs)             | 59117.68    | 4613.48    | 23235.79    |
| Top width (ft)     | 13120.00    | Top width (ft)         | 8750.00     | 420.00     | 3950.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 190.30      | Hydr. Depth (ft)       | 136.85      | 183.26     | 125.94      |
| Conv. Total (cfs)  | 461308000.0 | Conv. (cfs)            | 313584200.0 | 24471780.0 | 123252000.0 |
| Length wtd. (ft)   | 46.50       | Wetted Per. (ft)       | 8810.18     | 423.33     | 3977.06     |
| Min Ch El (ft)     | 584.90      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum volume (acre-ft)   | 111648.30   | 5640.68    | 36226.18    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 809.94      | 29.87      | 252.35      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 4627.\*

## INPUT

## Description:

| Station Elevation Data |        |         | num= 50 |          |        | Sta Elev |        |          | Sta Elev |     |      | Sta Elev |      |  |
|------------------------|--------|---------|---------|----------|--------|----------|--------|----------|----------|-----|------|----------|------|--|
| Sta                    | Elev   | Sta     | Elev    | Sta      | Elev   | Sta      | Elev   | Sta      | Elev     | Sta | Elev | Sta      | Elev |  |
| 0                      | 718.4  | 765.22  | 681.35  | 1011.49  | 669.94 | 1243.48  | 663.41 | 1339.13  | 661.92   |     |      |          |      |  |
| 1416.09                | 660.45 | 1626.09 | 660.6   | 1820.69  | 658.84 | 1913.04  | 654.35 | 2022.99  | 650      |     |      |          |      |  |
| 2104.35                | 650    | 2200    | 652     | 2326.44  | 652    | 2486.96  | 655.17 | 2528.74  | 655.88   |     |      |          |      |  |
| 2731.03                | 655.27 | 2832.18 | 650.97  | 3236.78  | 649.76 | 3641.38  | 644.55 | 3826.09  | 641.57   |     |      |          |      |  |
| 3944.83                | 640    | 4045.98 | 640     | 4248.28  | 648    | 4400     | 648    | 4450.57  | 647.89   |     |      |          |      |  |
| 4501.15                | 639.79 | 4591.3  | 637.22  | 4782.61  | 628.58 | 5259.77  | 615.17 | 5356.52  | 615      |     |      |          |      |  |
| 5462.07                | 614.86 | 6121.74 | 612.58  | 6574.71  | 611.6  | 6695.65  | 611.6  | 6777.01  | 611.43   |     |      |          |      |  |
| 6878.16                | 609.62 | 6886.96 | 609.6   | 8800     | 609.6  | 8920     | 584.8  | 9020     | 584.8    |     |      |          |      |  |
| 9240                   | 600    | 9703.42 | 600.42  | 10815.61 | 609.44 | 11432.31 | 616.65 | 11557.07 | 618.57   |     |      |          |      |  |
| 11870.77               | 680.92 | 11927.8 | 693.17  | 12747.69 | 745.38 | 12854.63 | 752.56 | 13040    | 757      |     |      |          |      |  |

## Manning's n Values

| Sta | n Val | Sta  | n Val | Sta  | n Val |
|-----|-------|------|-------|------|-------|
| 0   | .15   | 8800 | .15   | 9240 | .15   |

| Bank Sta: | Left | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|------|-------|----------|--------------|-------|-------|--------|--------|
|           | 8800 | 9240  |          | 46.5         | 46.5  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 46.50       | 46.50      | 46.50       |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1205435.00  | 80615.93   | 486953.10   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1205435.00  | 80615.93   | 486953.10   |
| Q Total (cfs)      | 86963.34    | Flow (cfs)             | 59261.49    | 4810.68    | 22891.17    |
| Top width (ft)     | 13040.00    | Top width (ft)         | 8800.00     | 440.00     | 3800.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 190.40      | Hydr. Depth (ft)       | 136.98      | 183.22     | 128.15      |
| Conv. Total (cfs)  | 463546400.0 | Conv. (cfs)            | 315885400.0 | 25642680.0 | 122018300.0 |
| Length wtd. (ft)   | 46.50       | Wetted Per. (ft)       | 8859.75     | 443.06     | 3827.69     |
| Min Ch El (ft)     | 584.80      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum volume (acre-ft)   | 110365.70   | 5556.57    | 35700.75    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 800.57      | 29.41      | 248.21      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 4580.5\*

## INPUT

## Description:

| Station Elevation Data |        |         | num= 50 |         |        | Sta Elev |        |         | Sta Elev |     |      | Sta Elev |      |  |
|------------------------|--------|---------|---------|---------|--------|----------|--------|---------|----------|-----|------|----------|------|--|
| Sta                    | Elev   | Sta     | Elev    | Sta     | Elev   | Sta      | Elev   | Sta     | Elev     | Sta | Elev | Sta      | Elev |  |
| 0                      | 718.6  | 769.57  | 681.18  | 1017.24 | 669.91 | 1250.54  | 662.99 | 1346.74 | 661.93   |     |      |          |      |  |
| 1424.14                | 660.68 | 1635.33 | 660.9   | 1831.03 | 658.26 | 1923.91  | 653.8  | 2034.48 | 650      |     |      |          |      |  |
| 2116.3                 | 650    | 2212.5  | 653     | 2339.66 | 653    | 2501.09  | 655.78 | 2543.1  | 656.31   |     |      |          |      |  |

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|                                      |                |                        |                |                |                |         |        |         |        |
|--------------------------------------|----------------|------------------------|----------------|----------------|----------------|---------|--------|---------|--------|
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| 2746.55                              | 655.41         | 2848.28                | 651.45         | 3255.17        | 649.64         | 3662.07 | 644.33 | 3847.83 | 641.37 |
| 3967.24                              | 640            | 4068.97                | 640            | 4272.41        | 647            | 4425    | 647    | 4475.86 | 646.84 |
| 4526.72                              | 639.68         | 4617.39                | 637.32         | 4809.78        | 627.51         | 5289.66 | 615.25 | 5386.96 | 615    |
| 5493.1                               | 614.79         | 6156.52                | 612.25         | 6612.07        | 611.4          | 6733.7  | 611.4  | 6815.52 | 611.14 |
| 6917.24                              | 609.43         | 6926.09                | 609.4          | 8850           | 609.4          | 8980    | 584.7  | 9080    | 584.7  |
| 9310                                 | 600            | 9755.12                | 600.6310823.42 | 609.1611415.77 | 615.8211535.61 | 617.85  |        |         |        |
| 11836.92                             | 673.3111891.71 |                        | 684.7612679.23 | 740.9612781.95 | 748.84         | 12960   | 755.5  |         |        |
| Manning's n values                   |                |                        |                |                |                |         |        |         |        |
| Sta                                  | n Val          | Sta                    | num=           | 3              | Sta            | n Val   |        |         |        |
| 0                                    | .15            | 8850                   | n Val          | 9310           | n Val          | .15     |        |         |        |
| Bank Sta:                            | Left           | Right                  | Lengths:       | Left           | Channel        | Right   | Coeff  | Contr.  | Expan. |
|                                      | 8850           | 9310                   |                | 46.5           | 46.5           | 46.5    | .1     | .3      |        |
| CROSS SECTION OUTPUT Profile #Max WS |                |                        |                |                |                |         |        |         |        |
| E.G. Elev (ft)                       | 775.20         | Element                | Left OB        | Channel        | Right OB       |         |        |         |        |
| Vel Head (ft)                        | 0.00           | wt. n-Val.             | 0.150          | 0.150          | 0.150          |         |        |         |        |
| W.S. Elev (ft)                       | 775.20         | Reach Len. (ft)        | 46.50          | 46.50          | 46.50          |         |        |         |        |
| Crit W.S. (ft)                       |                | Flow Area (sq ft)      | 1213421.00     | 84264.91       | 475772.30      |         |        |         |        |
| E.G. Slope (ft/ft)                   | 0.000000       | Area (sq ft)           | 1213421.00     | 84264.91       | 475772.30      |         |        |         |        |
| Q Total (cfs)                        | 86959.75       | Flow (cfs)             | 59435.64       | 5008.65        | 22515.46       |         |        |         |        |
| Top width (ft)                       | 12960.00       | Top width (ft)         | 8850.00        | 460.00         | 3650.00        |         |        |         |        |
| Vel Total (ft/s)                     | 0.05           | Avg. Vel. (ft/s)       | 0.05           | 0.06           | 0.05           |         |        |         |        |
| Max Chl Dpth (ft)                    | 190.50         | Hydr. Depth (ft)       | 137.11         | 183.18         | 130.35         |         |        |         |        |
| Conv. Total (cfs)                    | 465545900.0    | Conv. (cfs)            | 318193400.0    | 26814210.0     | 120538300.0    |         |        |         |        |
| Length Wtd. (ft)                     | 46.50          | wetted Per. (ft)       | 8909.38        | 462.83         | 3678.46        |         |        |         |        |
| Min Ch El (ft)                       | 584.70         | Shear (lb/sq ft)       | 0.00           | 0.00           | 0.00           |         |        |         |        |
| Alpha                                | 1.01           | Stream Power (lb/ft s) | 0.00           | 0.00           | 0.00           |         |        |         |        |
| Frctn Loss (ft)                      | 0.00           | Cum volume (acre-ft)   | 109074.70      | 5468.56        | 35186.90       |         |        |         |        |
| C & E Loss (ft)                      |                | Cum SA (acres)         | 791.15         | 28.93          | 244.23         |         |        |         |        |

warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 4534.\*

## INPUT

## Description:

|                        |                |         |                |                |                |         |        |         |        |
|------------------------|----------------|---------|----------------|----------------|----------------|---------|--------|---------|--------|
| Station Elevation Data |                | num=    | 50             |                |                |         |        |         |        |
| Sta                    | Elev           | Sta     | Elev           | Sta            | Elev           | Sta     | Elev   | Sta     | Elev   |
| 0                      | 718.8          | 773.91  | 681.01         | 1022.99        | 669.88         | 1257.61 | 662.56 | 1354.35 | 661.94 |
| 1432.18                | 660.91         | 1644.57 | 661.2          | 1841.38        | 657.67         | 1934.78 | 653.26 | 2045.98 | 650    |
| 2128.26                | 650            | 2225    | 654            | 2352.87        | 654            | 2515.22 | 656.38 | 2557.47 | 656.75 |
| 2762.07                | 655.54         | 2864.37 | 651.94         | 3273.56        | 649.52         | 3682.76 | 644.1  | 3869.57 | 641.17 |
| 3989.66                | 640            | 4091.95 | 640            | 4296.55        | 646            | 4450    | 646    | 4501.15 | 645.79 |
| 4552.3                 | 639.58         | 4643.48 | 637.42         | 4836.96        | 626.43         | 5319.54 | 615.34 | 5417.39 | 615    |
| 5524.14                | 614.72         | 6191.3  | 611.93         | 6649.43        | 611.2          | 6771.74 | 611.2  | 6854.02 | 610.86 |
| 6956.32                | 609.24         | 6965.22 | 609.2          | 8900           | 609.2          | 9040    | 584.6  | 9140    | 584.6  |
| 9380                   | 600            | 9806.83 | 600.8510831.22 | 608.8711399.23 | 614.9911514.15 | 617.14  |        |         |        |
| 11803.08               | 665.6911855.61 |         | 676.3412610.77 | 736.5412709.27 | 745.12         | 12880   | 754    |         |        |

|                    |       |       |          |      |         |       |       |        |        |
|--------------------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| Manning's n values |       | num=  | 3        |      |         |       |       |        |        |
| Sta                | n Val | Sta   | n Val    | Sta  | n Val   |       |       |        |        |
| 0                  | .15   | 8900  | .15      | 9380 | .15     |       |       |        |        |
| Bank Sta:          | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|                    | 8900  | 9380  |          | 46.5 | 46.5    | 46.5  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |  |  |  |  |
|--------------------|-------------|------------------------|-------------|------------|-------------|--|--|--|--|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |  |  |  |  |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |  |  |  |  |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 46.50       | 46.50      | 46.50       |  |  |  |  |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1221416.00  | 87917.92   | 463935.10   |  |  |  |  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1221416.00  | 87917.92   | 463935.10   |  |  |  |  |
| Q Total (cfs)      | 86956.12    | Flow (cfs)             | 59639.57    | 5207.76    | 22108.78    |  |  |  |  |
| Top width (ft)     | 12880.00    | Top width (ft)         | 8900.00     | 480.00     | 3500.00     |  |  |  |  |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |  |  |  |  |
| Max Chl Dpth (ft)  | 190.60      | Hydr. Depth (ft)       | 137.24      | 183.16     | 132.55      |  |  |  |  |
| Conv. Total (cfs)  | 467305100.0 | Conv. (cfs)            | 320505100.0 | 27986700.0 | 118813300.0 |  |  |  |  |
| Length Wtd. (ft)   | 46.50       | wetted Per. (ft)       | 8959.07     | 482.64     | 3529.40     |  |  |  |  |
| Min Ch El (ft)     | 584.60      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |  |  |  |  |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |  |  |  |  |
| Frctn Loss (ft)    | 0.00        | Cum volume (acre-ft)   | 107775.10   | 5376.66    | 34685.34    |  |  |  |  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 781.67      | 28.43      | 240.42      |  |  |  |  |

warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 4487.5\*

## INPUT

## Description:

|                        |                |         |                |                |                |         |        |         |        |
|------------------------|----------------|---------|----------------|----------------|----------------|---------|--------|---------|--------|
| Station Elevation Data |                | num=    | 50             |                |                |         |        |         |        |
| Sta                    | Elev           | Sta     | Elev           | Sta            | Elev           | Sta     | Elev   | Sta     | Elev   |
| 0                      | 719            | 778.26  | 680.84         | 1028.74        | 669.85         | 1264.67 | 662.13 | 1361.96 | 661.95 |
| 1440.23                | 661.13         | 1653.8  | 661.5          | 1851.72        | 657.09         | 1945.65 | 652.72 | 2057.47 | 650    |
| 2140.22                | 650            | 2237.5  | 655            | 2366.09        | 655            | 2529.35 | 656.98 | 2571.84 | 657.19 |
| 2777.59                | 655.68         | 2880.46 | 652.42         | 3291.95        | 649.4          | 3703.45 | 643.88 | 3891.3  | 640.98 |
| 4012.07                | 640            | 4114.94 | 640            | 4320.69        | 645            | 4475    | 645    | 4526.44 | 644.74 |
| 4577.87                | 639.47         | 4669.57 | 637.51         | 4864.13        | 625.36         | 5349.43 | 615.42 | 5447.83 | 615    |
| 5555.17                | 614.66         | 6226.09 | 611.61         | 6686.78        | 611            | 6809.78 | 611    | 6892.53 | 610.57 |
| 6995.4                 | 609.05         | 7004.35 | 609            | 8950           | 609            | 9100    | 584.5  | 9200    | 584.5  |
| 9450                   | 600            | 9858.54 | 601.0610839.02 | 608.5911382.69 | 614.1611492.68 | 616.42  |        |         |        |
| 11769.23               | 658.0811819.51 |         | 667.9312542.31 | 732.1212636.59 | 741.4          | 12800   | 752.5  |         |        |

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|                    |                 |   |  |  |  |  |  |  |
|--------------------|-----------------|---|--|--|--|--|--|--|
| Manning's n Values | num=            | 3 |  |  |  |  |  |  |
| Sta n Val Sta      | n Val Sta n Val |   |  |  |  |  |  |  |
| 0 .15 8950         | .15 9450 .15    |   |  |  |  |  |  |  |

  

|                |       |                       |       |       |        |        |
|----------------|-------|-----------------------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left Channel | Right | Coeff | Contr. | Expan. |
| 8950           | 9450  | 46.5 46.5             | 46.5  | .1    | .3     |        |

CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 46.50       | 46.50      | 46.50       |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1229420.00  | 91574.91   | 451431.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1229420.00  | 91574.91   | 451431.80   |
| Q Total (cfs)      | 86952.44    | Flow (cfs)             | 59874.43    | 5408.48    | 21669.53    |
| Top width (ft)     | 12800.00    | Top width (ft)         | 8950.00     | 500.00     | 3350.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 190.70      | Hydr. Depth (ft)       | 137.37      | 183.15     | 134.76      |
| Conv. Total (cfs)  | 468812800.0 | Conv. (cfs)            | 322819000.0 | 29160350.0 | 116833400.0 |
| Length wtd. (ft)   | 46.50       | wetted Per. (ft)       | 9008.82     | 502.47     | 3380.54     |
| Min Ch El (ft)     | 584.50      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 106466.90   | 5280.86    | 34196.76    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 772.15      | 27.91      | 236.76      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 4441.\*

## INPUT

## Description:

|                         |                                                     |    |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------|----|--|--|--|--|--|--|
| Station Elevation Data  | num=                                                | 50 |  |  |  |  |  |  |
| Sta Elev Sta            | Elev Sta Elev Sta Elev Sta Elev                     |    |  |  |  |  |  |  |
| 0 719.2 782.61          | 680.67 1034.48 669.82 1271.74 661.71 1369.57 661.96 |    |  |  |  |  |  |  |
| 1448.28 661.36 1663.04  | 661.8 1862.07 656.51 1956.52 652.17 2068.97 650     |    |  |  |  |  |  |  |
| 2152.17 650 2250        | 656 2379.31 656 2543.48 657.59 2586.21 657.63       |    |  |  |  |  |  |  |
| 2793.1 655.81 2896.55   | 652.91 3310.34 649.28 3724.14 643.66 3913.04 640.78 |    |  |  |  |  |  |  |
| 4034.48 640 4137.93     | 640 4344.83 644 4500 644 4551.72 643.68             |    |  |  |  |  |  |  |
| 4603.45 639.37 4695.65  | 637.61 4891.3 624.29 5379.31 615.51 5478.26 615     |    |  |  |  |  |  |  |
| 5586.21 614.59 6260.87  | 611.29 6724.14 610.8 6847.83 610.8 6931.03 610.29   |    |  |  |  |  |  |  |
| 7034.48 608.86 7043.48  | 608.8 9000 608.8 9160 584.4 9260 584.4              |    |  |  |  |  |  |  |
| 9520 600 9910.24        | 601.2710846.83 608.3111366.15 613.3311471.22 615.71 |    |  |  |  |  |  |  |
| 11735.38 650.4611783.42 | 659.5112473.85 727.69 12563.9 737.68 12720 751      |    |  |  |  |  |  |  |

|                    |                 |   |  |  |  |  |  |  |
|--------------------|-----------------|---|--|--|--|--|--|--|
| Manning's n Values | num=            | 3 |  |  |  |  |  |  |
| Sta n Val Sta      | n Val Sta n Val |   |  |  |  |  |  |  |
| 0 .15 9000         | .15 9520 .15    |   |  |  |  |  |  |  |

|                |       |                       |       |       |        |        |
|----------------|-------|-----------------------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left Channel | Right | Coeff | Contr. | Expan. |
| 9000           | 9520  | 46.5 46.5             | 46.5  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 46.50       | 46.50      | 46.50       |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1237432.00  | 95235.91   | 438275.50   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1237432.00  | 95235.91   | 438275.50   |
| Q Total (cfs)      | 86948.76    | Flow (cfs)             | 60140.34    | 5611.13    | 21197.29    |
| Top width (ft)     | 12720.00    | Top width (ft)         | 9000.00     | 520.00     | 3200.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 190.80      | Hydr. Depth (ft)       | 137.49      | 183.15     | 136.96      |
| Conv. Total (cfs)  | 470069600.0 | Conv. (cfs)            | 325135700.0 | 30335330.0 | 114598600.0 |
| Length wtd. (ft)   | 46.50       | wetted Per. (ft)       | 9058.62     | 522.32     | 3231.88     |
| Min Ch El (ft)     | 584.40      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 105150.30   | 5181.15    | 33721.88    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 762.57      | 27.36      | 233.27      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 4394.5\*

## INPUT

## Description:

|                         |                                                     |    |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------|----|--|--|--|--|--|--|
| Station Elevation Data  | num=                                                | 50 |  |  |  |  |  |  |
| Sta Elev Sta            | Elev Sta Elev Sta Elev Sta Elev                     |    |  |  |  |  |  |  |
| 0 719.4 786.96          | 680.51 1040.23 669.79 1278.8 661.28 1377.17 661.97  |    |  |  |  |  |  |  |
| 1456.32 661.59 1672.28  | 662.1 1872.41 655.93 1967.39 651.63 2080.46 650     |    |  |  |  |  |  |  |
| 2164.13 650 2262.5      | 657 2392.53 657 2557.61 658.19 2600.57 658.06       |    |  |  |  |  |  |  |
| 2808.62 655.95 2912.64  | 653.39 3328.74 649.16 3744.83 643.43 3934.78 640.59 |    |  |  |  |  |  |  |
| 4056.9 640 4160.92      | 640 4368.97 643 4525 643 4577.01 642.63             |    |  |  |  |  |  |  |
| 4629.02 639.26 4721.74  | 637.71 4918.48 623.22 5409.2 615.59 5508.7 615      |    |  |  |  |  |  |  |
| 5617.24 614.52 6295.65  | 610.97 6761.49 610.6 6885.87 610.6 6969.54 610      |    |  |  |  |  |  |  |
| 7073.56 608.66 7082.61  | 608.6 9050 608.6 9220 584.3 9320 584.3              |    |  |  |  |  |  |  |
| 9590 600 9961.95        | 601.4810854.63 608.0311349.62 612.511449.76 614.99  |    |  |  |  |  |  |  |
| 11701.54 642.8511747.32 | 651.112405.38 723.2712491.22 733.96 12640 749.5     |    |  |  |  |  |  |  |

|                    |                 |   |  |  |  |  |  |  |
|--------------------|-----------------|---|--|--|--|--|--|--|
| Manning's n Values | num=            | 3 |  |  |  |  |  |  |
| Sta n Val Sta      | n Val Sta n Val |   |  |  |  |  |  |  |
| 0 .15 9050         | .15 9590 .15    |   |  |  |  |  |  |  |

|                |       |                       |       |       |        |        |
|----------------|-------|-----------------------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left Channel | Right | Coeff | Contr. | Expan. |
| 9050           | 9590  | 46.5 46.5             | 46.5  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS



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|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| w.s. Elev (ft)     | 775.20      | Reach Len. (ft)        | 46.50       | 46.50      | 46.50       |
| Crit w.s. (ft)     |             | Flow Area (sq ft)      | 1245462.00  | 98900.91   | 424450.20   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1245462.00  | 98900.91   | 424450.20   |
| Q Total (cfs)      | 86945.09    | Flow (cfs)             | 60439.36    | 5816.16    | 20689.57    |
| Top width (ft)     | 12640.00    | Top width (ft)         | 9050.00     | 540.00     | 3050.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.05       | 0.05        |
| Max Ch Dpth (ft)   | 190.90      | Hydr. Depth (ft)       | 137.62      | 183.15     | 139.16      |
| Conv. Total (cfs)  | 471066500.0 | Conv (cfs)             | 327459100.0 | 31518800.0 | 112095600.0 |
| Length wtd. (ft)   | 46.50       | wetted Per. (ft)       | 9108.49     | 542.18     | 3083.47     |
| Min Ch El (ft)     | 584.30      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frcn Loss (ft)     | 0.00        | Cum Volume (acre-ft)   | 103825.00   | 5077.53    | 33261.41    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 752.93      | 26.80      | 229.93      |

warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 4348.☆

INPUT

Description:

| Station  | Elevation   | Data      | num=       | 50        |          |          |         |         |        |
|----------|-------------|-----------|------------|-----------|----------|----------|---------|---------|--------|
| Sta      | Elev        | Sta       | Elev       | Sta       | Elev     | Sta      | Elev    | Sta     | Elev   |
| 0        | 719.6       | 791.3     | 680.34     | 1045.98   | 669.76   | 1285.87  | 660.85  | 1384.78 | 661.98 |
| 1464.37  | 661.81      | 1681.52   | 662.4      | 1882.76   | 655.35   | 1978.26  | 651.09  | 2091.95 | 650    |
| 2176.09  | 650         | 2275      | 658        | 2405.75   | 658      | 2571.74  | 658.79  | 2614.94 | 658.5  |
| 2824.14  | 656.08      | 2928.74   | 653.88     | 3347.13   | 649.04   | 3765.52  | 643.21  | 3956.52 | 640.39 |
| 4079.31  | 640         | 4183.91   | 640        | 4393.1    | 642      | 4550     | 642     | 4602.3  | 641.58 |
| 4654.6   | 639.15      | 4747.83   | 637.81     | 4945.65   | 622.14   | 5439.08  | 615.67  | 5539.13 | 615    |
| 5648.28  | 614.45      | 6330.43   | 610.64     | 6798.85   | 610.4    | 6923.91  | 610.4   | 7008.05 | 609.72 |
| 7112.64  | 608.47      | 7121.74   | 608.4      | 9100      | 608.4    | 9280     | 584.2   | 9380    | 584.2  |
| 9660     | 60010013.66 | 601.69    | 1091862.44 | 607.75    | 12333.08 | 611.66   | 1428.29 | 614.28  | 614.28 |
| 11667.69 | 635.23      | 131711.22 | 642.68     | 132366.92 | 718.85   | 12418.54 | 730.24  | 12560   | 748    |

|           |     |        |      |      |     |      |     |     |
|-----------|-----|--------|------|------|-----|------|-----|-----|
| Manning's | n   | Values |      | num= | 3   |      |     |     |
| Sta       | n   | val    | Sta  | n    | val | Sta  | n   | val |
| 0         | .15 |        | 9100 | .15  |     | 9660 | .15 |     |

|           |      |       |          |      |         |       |       |        |        |
|-----------|------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 9100 | 9660  |          | 46.5 | 46.5    | 46.5  |       | .1     | .3     |

CROSS SECTION OUTPUT    Profile #Max WS

|                    |            |                        |             |            |             |
|--------------------|------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20     | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00       | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20     | Reach Len. (ft)        | 46.50       | 46.50      | 46.50       |
| Crit W.S. (ft)     |            | Flow Area (sq ft)      | 1253514.00  | 102569.90  | 409970.00   |
| E.G. Slope (ft/ft) | 0.000000   | Area (sq ft)           | 1253514.00  | 102569.90  | 409970.00   |
| Q Total (cfs)      | 86941.41   | Flow (cfs)             | 60771.89    | 6023.88    | 20145.64    |
| Top Width (ft)     | 12560.00   | Top width (ft)         | 9100.00     | 560.00     | 2900.00     |
| Vel total (ft/s)   | 0.05       | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl. bpth (ft) | 191.00     | Hydr. depths (ft)      | 137.75      | 183.16     | 147.37      |
| Conv. Tot. (cfs)   | 47180600.0 | Conv. (cfs)            | 329791500.0 | 32689840.0 | 109324600.0 |
| Length wtd. (ft)   | 46.50      | Wetted Per. (ft)       | 9158.41     | 562.06     | 2935.35     |
| Min Ch El (ft)     | 584.20     | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01       | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00       | Cum Volume (acre-ft)   | 102491.20   | 4969.99    | 32816.04    |
| C & E Loss (ft)    |            | Cum SA (acres)         | 743.24      | 26.21      | 226.75      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 4301.5\*

INPUT

**Description:**

| Station Elevation Data |                |                | num= 50        |                |        |         |        |         |        |     |      |
|------------------------|----------------|----------------|----------------|----------------|--------|---------|--------|---------|--------|-----|------|
| Sta                    | Elev           | Sta            | Elev           | Sta            | Elev   | Sta     | Elev   | Sta     | Elev   | Sta | Elev |
| 0                      | 719.8          | 795.65         | 680.17         | 1051.72        | 669.73 | 1292.93 | 660.43 | 1392.39 | 661.99 |     |      |
| 1472.41                | 662.04         | 1690.76        | 662.7          | 1893.1         | 654.77 | 1989.13 | 650.54 | 2103.45 | 650    |     |      |
| 2188.04                | 650            | 2287.5         | 659            | 2418.97        | 659    | 2585.87 | 659.4  | 2629.31 | 658.94 |     |      |
| 2839.66                | 656.22         | 2944.83        | 654.36         | 3365.52        | 648.92 | 3786.21 | 642.98 | 3978.26 | 640.2  |     |      |
| 4101.72                | 640            | 4206.9         | 640            | 4417.24        | 641    | 4575    | 641    | 4627.59 | 640.52 |     |      |
| 4680.17                | 639.05         | 4773.91        | 637.9          | 4972.83        | 621.07 | 5468.97 | 615.76 | 5569.57 | 615    |     |      |
| 5679.31                | 634.38         | 6365.22        | 610.32         | 6836.21        | 610.2  | 6961.96 | 610.2  | 7046.55 | 609.43 |     |      |
| 7151.72                | 608.28         | 7160.87        | 608.2          | 9150           | 608.2  | 9340    | 584.1  | 9440    | 584.1  |     |      |
| 9730                   | 60010665.37    | 601.910870.24  | 607.4712316.54 | 610.8311406.83 | 613.56 |         |        |         |        |     |      |
| 11633.85               | 627.6211675.12 | 634.2712268.46 | 714.4212345.85 | 726.52         | 12480  | 746.5   |        |         |        |     |      |

|           |     |        |      |      |     |
|-----------|-----|--------|------|------|-----|
| Manning's | n   | Values | num= | 3    |     |
| Sta       | n   | Val    | Sta  | n    | Val |
| 0         | .15 | 9150   | .15  | 9730 | .15 |

|           |      |       |          |      |         |       |       |        |        |
|-----------|------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 9150 | 9730  |          | 46.5 | 46.5    | 46.5  |       | .1     | .3     |

CROSS SECTION OUTPUT    Profile #Max WS

|                    |          |                   |            |           |           |
|--------------------|----------|-------------------|------------|-----------|-----------|
| E.G. Elev (ft)     | 775.20   | Element           | Left OB    | Channel   | Right OB  |
| Vel Head (ft)      | 0.00     | Wt. n-Val.        | 0.150      | 0.150     | 0.150     |
| W.S. Elev (ft)     | 775.20   | Reach Len. (ft)   | 46.50      | 46.50     | 46.50     |
| Crit W.S. (ft)     |          | Flow Area (sq ft) | 1261570.00 | 106242.90 | 394826.10 |
| E.G. Slope (ft/ft) | 0.000000 | Area (sq ft)      | 1261570.00 | 106242.90 | 394826.10 |
| Q Total (cfs)      | 86937.76 | Flow (cfs)        | 61139.20   | 6234.89   | 19563.67  |
| Top width (ft)     | 12480.00 | Top width (ft)    | 9150.00    | 580.00    | 2750.00   |

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|                   |             |                        |             |            |
|-------------------|-------------|------------------------|-------------|------------|
| Vel Total (ft/s)  | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.05       |
| Max Chl Dpth (ft) | 191.10      | Hydr. Depth (ft)       | 137.88      | 183.18     |
| Conv. Total (cfs) | 472268900.0 | Conv. (cfs)            | 332124300.0 | 33869550.0 |
| Length wtd. (ft)  | 46.50       | Wetted Per. (ft)       | 9208.38     | 581.96     |
| Min Ch El (ft)    | 584.10      | Shear (lb/sq ft)       | 0.00        | 0.00       |
| Alpha             | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       |
| Frctn Loss (ft)   | 0.00        | Cum Volume (acre-ft)   | 101148.80   | 4858.54    |
| C & E Loss (ft)   |             | Cum SA (acres)         | 733.50      | 25.60      |
|                   |             |                        |             | 223.74     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 4255

## INPUT

## Description:

| Station | Elevation | Data  | num= | 25    | Elev | Sta   | Elev | Sta   | Elev | Sta | Elev |
|---------|-----------|-------|------|-------|------|-------|------|-------|------|-----|------|
| Sta     | Elev      | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta | Elev |
| 0       | 720       | 800   | 680  | 1300  | 660  | 1400  | 662  | 1700  | 663  |     |      |
| 2000    | 650       | 2200  | 650  | 2300  | 660  | 2600  | 660  | 4000  | 640  |     |      |
| 4600    | 640       | 4800  | 638  | 5000  | 620  | 5600  | 615  | 6400  | 610  |     |      |
| 7000    | 610       | 7200  | 608  | 9200  | 608  | 9400  | 584  | 9500  | 584  |     |      |
| 9800    | 600       | 11300 | 610  | 11600 | 620  | 12200 | 710  | 12400 | 745  |     |      |

## Manning's n Values

| Sta | n Val | Sta  | n Val | Sta  | n Val |
|-----|-------|------|-------|------|-------|
| 0   | .15   | 9200 | .15   | 9800 | .15   |

|           |      |       |          |              |       |       |        |        |
|-----------|------|-------|----------|--------------|-------|-------|--------|--------|
| Bank Sta: | Left | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|           | 9200 | 9800  |          | 45.5         | 45.5  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 45.50       | 45.50      | 45.50       |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1269638.00  | 109919.90  | 379019.60   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1269638.00  | 109919.90  | 379019.60   |
| Q Total (cfs)      | 86934.12    | Flow (cfs)             | 61542.86    | 6449.58    | 18941.69    |
| Top width (ft)     | 12400.00    | Top width (ft)         | 9200.00     | 600.00     | 2600.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 191.20      | Hydr. Depth (ft)       | 138.00      | 183.20     | 145.78      |
| Conv. Total (cfs)  | 472453500.0 | Conv. (cfs)            | 334461700.0 | 35050980.0 | 102940800.0 |
| Length wtd. (ft)   | 45.50       | Wetted Per. (ft)       | 9258.41     | 601.86     | 2640.15     |
| Min Ch El (ft)     | 584.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 99797.78    | 4743.17    | 31973.44    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 723.71      | 24.97      | 220.88      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 4209.5\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=        | 44       | Elev   | Sta      | Elev        | Sta     | Elev   | Sta | Elev |
|----------|-----------|----------|-------------|----------|--------|----------|-------------|---------|--------|-----|------|
| Sta      | Elev      | Sta      | Elev        | Sta      | Elev   | Sta      | Elev        | Sta     | Elev   | Sta | Elev |
| 0        | 720       | 804.35   | 680.65      | 1156.25  | 666.5  | 1307.07  | 661.01      | 1407.61 | 662.59 |     |      |
| 1541.67  | 662.76    | 1709.24  | 663.58      | 1734.38  | 662.68 | 2010.87  | 651.1       | 2211.96 | 650.27 |     |      |
| 2216.15  | 650.61    | 2312.5   | 659.33      | 2614.13  | 660.34 | 2697.92  | 659.58      | 3083.33 | 652.92 |     |      |
| 3276.04  | 650.52    | 3854.17  | 642.08      | 4021.74  | 640    | 4143.23  | 640         | 4335.94 | 639.38 |     |      |
| 4625     | 639.38    | 4817.71  | 635.82      | 4826.09  | 635.74 | 5027.17  | 619.77      | 5395.83 | 616.7  |     |      |
| 5630.43  | 614.89    | 6166.67  | 611.71      | 6434.78  | 610.25 | 6937.5   | 610.25      | 7038.04 | 610.18 |     |      |
| 7239.13  | 608.3     | 7322.92  | 608.25      | 8864.58  | 608.25 | 9250     | 607         | 9431.25 | 583.88 |     |      |
| 9550     | 583.88    | 9818.75  | 60011135.71 |          | 608.99 | 11307.93 | 61011557.14 |         | 617.32 |     |      |
| 11605.77 | 620.19    | 11978.57 | 680.54      | 12201.44 | 710    | 12400    | 740.62      |         |        |     |      |

## Manning's n Values

| Sta | n Val | Sta  | n Val | Sta     | n Val |
|-----|-------|------|-------|---------|-------|
| 0   | .15   | 9250 | .15   | 9818.75 | .15   |

|           |      |         |          |              |       |       |        |        |
|-----------|------|---------|----------|--------------|-------|-------|--------|--------|
| Bank Sta: | Left | Right   | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|           | 9250 | 9818.75 |          | 45.5         | 45.5  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 45.50       | 45.50      | 45.50       |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1275904.00  | 104551.80  | 375472.90   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1275904.00  | 104551.80  | 375472.90   |
| Q Total (cfs)      | 86930.57    | Flow (cfs)             | 61997.53    | 6164.03    | 18769.02    |
| Top width (ft)     | 12400.00    | Top width (ft)         | 9250.00     | 568.75     | 2581.25     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 191.32      | Hydr. Depth (ft)       | 137.94      | 183.83     | 145.46      |
| Conv. Total (cfs)  | 471149000.0 | Conv. (cfs)            | 336016100.0 | 33407980.0 | 101724900.0 |
| Length wtd. (ft)   | 45.50       | Wetted Per. (ft)       | 9308.09     | 570.70     | 2625.20     |
| Min Ch El (ft)     | 583.88      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 98468.33    | 4631.15    | 31579.40    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 714.07      | 24.36      | 218.18      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

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RIVER: SQUAW CREEK  
REACH: SC

RS: 4164.\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=   | 44       | Elev   | Sta      | Elev   | Sta     | Elev   | Sta | Elev | Sta | Elev |
|----------|-----------|----------|--------|----------|--------|----------|--------|---------|--------|-----|------|-----|------|
| 0        | 720       | 808.7    | 681.3  | 1162.5   | 667    | 1314.13  | 662.01 | 1415.22 | 663.18 |     |      |     |      |
| 1550     | 663.08    | 1718.48  | 664.15 | 1743.75  | 663.44 | 2021.74  | 652.2  | 2223.91 | 650.53 |     |      |     |      |
| 2228.12  | 650.81    | 2325     | 658.65 | 2628.26  | 660.68 | 2712.5   | 660.36 | 3100    | 652.5  |     |      |     |      |
| 3293.75  | 650.45    | 3875     | 641.79 | 4043.48  | 640    | 4165.62  | 640    | 4359.38 | 638.75 |     |      |     |      |
| 4650     | 638.75    | 4843.75  | 633.56 | 4852.17  | 633.48 | 5054.35  | 619.55 | 5425    | 616.46 |     |      |     |      |
| 5660.87  | 614.77    | 6200     | 611.75 | 6469.57  | 610.5  | 6975     | 610.5  | 7076.09 | 610.37 |     |      |     |      |
| 7278.26  | 608.61    | 7362.5   | 608.5  | 8912.5   | 608.5  | 9300     | 606    | 9462.5  | 583.75 |     |      |     |      |
| 9600     | 583.75    | 9837.5   | 600    | 11144.9  | 609.13 | 11315.87 | 61011  | 1563.27 | 616.28 |     |      |     |      |
| 11611.54 | 620.38    | 11981.63 | 684.74 | 12202.88 | 710    | 12400    | 736.25 |         |        |     |      |     |      |

## Manning's n Values

| Sta | n Val | Sta  | num= | 3      | n Val | Sta | n Val |
|-----|-------|------|------|--------|-------|-----|-------|
| 0   | .15   | 9300 | .15  | 9837.5 | .15   |     |       |

| Bank Sta: | Left | Right  | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|------|--------|----------|------|---------|-------|-------|--------|--------|
|           | 9300 | 9837.5 |          | 45.5 | 45.5    | 45.5  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 45.50       | 45.50      | 45.50       |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1282164.00  | 99166.78   | 371944.90   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1282164.00  | 99166.78   | 371944.90   |
| Q Total (cfs)      | 86927.05    | Flow (cfs)             | 62455.27    | 5875.23    | 18596.55    |
| Top width (ft)     | 12400.00    | Top width (ft)         | 9300.00     | 537.50     | 2562.50     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 191.45      | Hydr. Depth (ft)       | 137.87      | 184.50     | 145.15      |
| Conv. Total (cfs)  | 469834700.0 | Conv. (cfs)            | 337566500.0 | 31755210.0 | 100513100.0 |
| Length wtd. (ft)   | 45.50       | Wetted Per. (ft)       | 9357.85     | 539.57     | 2610.47     |
| Min Ch El (ft)     | 583.75      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 97132.33    | 4524.76    | 31189.04    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 704.39      | 23.78      | 215.49      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 4118.5\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=   | 44       | Elev   | Sta     | Elev   | Sta     | Elev   | Sta | Elev |
|----------|-----------|----------|--------|----------|--------|---------|--------|---------|--------|-----|------|
| 0        | 720       | 813.04   | 681.96 | 1168.75  | 667.5  | 1321.2  | 663.02 | 1422.83 | 663.78 |     |      |
| 1558.33  | 663.4     | 1727.72  | 664.73 | 1753.12  | 664.2  | 2032.61 | 653.31 | 2235.87 | 650.8  |     |      |
| 2240.1   | 651.01    | 2337.5   | 657.97 | 2642.39  | 661.03 | 2727.08 | 661.13 | 3116.67 | 652.08 |     |      |
| 3311.46  | 650.37    | 3895.83  | 641.49 | 4065.22  | 640    | 4188.02 | 640    | 4382.81 | 638.12 |     |      |
| 4675     | 638.12    | 4869.79  | 631.3  | 4878.26  | 631.22 | 5081.52 | 619.32 | 5454.17 | 616.22 |     |      |
| 5691.3   | 614.66    | 6233.33  | 611.79 | 6504.35  | 610.75 | 7012.5  | 610.75 | 7114.13 | 610.55 |     |      |
| 7317.39  | 608.91    | 7402.08  | 608.75 | 8960.42  | 608.75 | 9350    | 605    | 9493.75 | 583.62 |     |      |
| 9650     | 583.62    | 9856.25  | 60011  | 1154.08  | 609.28 | 11323.8 | 61011  | 1569.39 | 615.23 |     |      |
| 11617.31 | 620.58    | 11984.69 | 688.95 | 12204.33 | 710    | 12400   | 731.88 |         |        |     |      |

## Manning's n Values

| Sta | n Val | Sta  | num= | 3       | n Val | Sta | n Val |
|-----|-------|------|------|---------|-------|-----|-------|
| 0   | .15   | 9350 | .15  | 9856.25 | .15   |     |       |

| Bank Sta: | Left | Right   | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|------|---------|----------|------|---------|-------|-------|--------|--------|
|           | 9350 | 9856.25 |          | 45.5 | 45.5    | 45.5  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB   |
|--------------------|-------------|------------------------|-------------|------------|------------|
| Vel Head (ft)      | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 45.50       | 45.50      | 45.50      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1288415.00  | 93761.41   | 368417.80  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1288415.00  | 93761.41   | 368417.80  |
| Q Total (cfs)      | 86923.55    | Flow (cfs)             | 62917.46    | 5582.87    | 18423.22   |
| Top width (ft)     | 12400.00    | Top width (ft)         | 9350.00     | 506.25     | 2543.75    |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05       |
| Max Chl Dpth (ft)  | 191.58      | Hydr. Depth (ft)       | 137.80      | 185.21     | 144.83     |
| Conv. Total (cfs)  | 468498200.0 | Conv. (cfs)            | 339110800.0 | 30090390.0 | 99296990.0 |
| Length wtd. (ft)   | 45.50       | Wetted Per. (ft)       | 9407.68     | 508.48     | 2595.99    |
| Min Ch El (ft)     | 583.62      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00       |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 95789.80    | 4424.00    | 30802.38   |
| C & E Loss (ft)    |             | Cum SA (acres)         | 694.65      | 23.24      | 212.82     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 4073.\*

## INPUT

## Description:

| Station | Elevation | Data    | num=   | 44     | Elev   | Sta     | Elev   | Sta     | Elev   |
|---------|-----------|---------|--------|--------|--------|---------|--------|---------|--------|
| 0       | 720       | 817.39  | 682.61 | 1175   | 668    | 1328.26 | 664.02 | 1430.43 | 664.37 |
| 1566.67 | 663.72    | 1736.96 | 665.3  | 1762.5 | 664.96 | 2043.48 | 654.41 | 2247.83 | 651.07 |

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|                                      |                |                        |             |                |             |         |        |         |        |
|--------------------------------------|----------------|------------------------|-------------|----------------|-------------|---------|--------|---------|--------|
| TXU_Rev1.rep                         |                |                        |             |                |             |         |        |         |        |
| 2252.08                              | 651.21         | 2350                   | 657.3       | 2656.52        | 661.37      | 2741.67 | 661.9  | 3133.33 | 651.67 |
| 3329.17                              | 650.3          | 3916.67                | 641.19      | 4086.96        | 640         | 4210.42 | 640    | 4406.25 | 637.5  |
| 4700                                 | 637.5          | 4895.83                | 629.04      | 4904.35        | 628.96      | 5108.7  | 619.09 | 5483.33 | 615.97 |
| 5721.74                              | 614.54         | 6266.67                | 611.83      | 6539.13        | 611         | 7050    | 611    | 7152.17 | 610.74 |
| 7356.52                              | 609.22         | 7441.67                | 609         | 9008.33        | 609         | 9400    | 604    | 9525    | 583.5  |
| 9700                                 | 583.5          | 9875                   | 60011163.27 | 609.4211331.73 | 61011575.51 | 614.18  |        |         |        |
| 11623.08                             | 620.7711987.75 | 693.1612205.77         | 710         | 12400          | 727.5       |         |        |         |        |
| Manning's n values                   |                |                        |             |                |             |         |        |         |        |
| Sta                                  | n Val          | Sta                    | n Val       | Sta            | n Val       |         |        |         |        |
| 0                                    | .15            | 9400                   | .15         | 9875           | .15         |         |        |         |        |
| Bank Sta:                            | Left           | Right                  | Lengths:    | Left           | Channel     | Right   | Coeff  | Contr.  | Expan. |
|                                      | 9400           | 9875                   |             | 45.5           | 45.5        | 45.5    | .1     | .3      |        |
| CROSS SECTION OUTPUT Profile #Max WS |                |                        |             |                |             |         |        |         |        |
| E.G. Elev (ft)                       | 775.20         | Element                | Left OB     | Channel        | Right OB    |         |        |         |        |
| Vel Head (ft)                        | 0.00           | wt. n-Val.             | 0.150       | 0.150          | 0.150       |         |        |         |        |
| W.S. Elev (ft)                       | 775.20         | Reach Len. (ft)        | 45.50       | 45.50          | 45.50       |         |        |         |        |
| Crit W.S. (ft)                       |                | Flow Area (sq ft)      | 1294662.00  | 88332.42       | 364912.80   |         |        |         |        |
| E.G. Slope (ft/ft)                   | 0.000000       | Area (sq ft)           | 1294662.00  | 88332.42       | 364912.80   |         |        |         |        |
| Q Total (cfs)                        | 86920.07       | Flow (cfs)             | 63383.42    | 5286.31        | 18250.34    |         |        |         |        |
| Top Width (ft)                       | 12400.00       | Top width (ft)         | 9400.00     | 475.00         | 2525.00     |         |        |         |        |
| Vel Total (ft/s)                     | 0.05           | Avg. Vel. (ft/s)       | 0.05        | 0.06           | 0.05        |         |        |         |        |
| Max Chl Dpth (ft)                    | 191.70         | Hydr. Depth (ft)       | 137.73      | 185.96         | 144.52      |         |        |         |        |
| Conv. Total (cfs)                    | 467149200.0    | Conv. (cfs)            | 340652200.0 | 28411090.0     | 98085900.0  |         |        |         |        |
| Length wtd. (ft)                     | 45.50          | Wetted Per. (ft)       | 9457.58     | 477.45         | 2581.78     |         |        |         |        |
| Min Ch El (ft)                       | 583.50         | Shear (lb/sq ft)       | 0.00        | 0.00           | 0.00        |         |        |         |        |
| Alpha                                | 1.01           | Stream Power (lb/ft s) | 0.00        | 0.00           | 0.00        |         |        |         |        |
| Frctn Loss (ft)                      | 0.00           | Cum Volume (acre-ft)   | 94440.74    | 4328.90        | 30419.38    |         |        |         |        |
| C & E Loss (ft)                      |                | Cum SA (acres)         | 684.85      | 22.73          | 210.18      |         |        |         |        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 4027.5\*

## INPUT

## Description:

|                        |                |                |             |                |             |         |        |         |        |
|------------------------|----------------|----------------|-------------|----------------|-------------|---------|--------|---------|--------|
| Station Elevation Data |                |                |             |                |             |         |        |         |        |
| Sta                    | Elev           | Sta            | Elev        | Sta            | Elev        | Sta     | Elev   | Sta     | Elev   |
| 0                      | 720            | 821.74         | 683.26      | 1181.25        | 668.5       | 1335.33 | 665.03 | 1438.04 | 664.96 |
| 1575                   | 664.04         | 1746.2         | 665.88      | 1771.88        | 665.72      | 2054.35 | 655.51 | 2259.78 | 651.34 |
| 2264.06                | 651.41         | 2362.5         | 656.62      | 2670.65        | 661.71      | 2756.25 | 662.68 | 3150    | 651.25 |
| 3346.88                | 650.22         | 3937.5         | 640.89      | 4108.7         | 640         | 4232.81 | 640    | 4429.69 | 636.88 |
| 4725                   | 636.88         | 4921.88        | 626.78      | 4930.44        | 626.7       | 5135.87 | 618.87 | 5512.5  | 615.73 |
| 5752.17                | 614.43         | 6300           | 611.88      | 6573.91        | 611.25      | 7087.5  | 611.25 | 7190.22 | 610.92 |
| 7395.65                | 609.52         | 7481.25        | 609.25      | 9056.25        | 609.25      | 9450    | 603    | 9556.25 | 583.38 |
| 9750                   | 583.38         | 9893.75        | 60011172.45 | 609.5711339.66 | 61011581.63 | 613.14  |        |         |        |
| 11628.85               | 620.9611990.82 | 697.3712207.21 | 710         | 12400          | 723.12      |         |        |         |        |

|                    |       |      |       |         |       |
|--------------------|-------|------|-------|---------|-------|
| Manning's n values |       |      |       |         |       |
| Sta                | n Val | Sta  | n Val | Sta     | n Val |
| 0                  | .15   | 9450 | .15   | 9893.75 | .15   |

|           |      |         |          |      |         |       |       |        |        |
|-----------|------|---------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left | Right   | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 9450 | 9893.75 |          | 45.5 | 45.5    | 45.5  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |            |  |  |  |  |
|--------------------|-------------|------------------------|-------------|------------|------------|--|--|--|--|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB   |  |  |  |  |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150      |  |  |  |  |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 45.50       | 45.50      | 45.50      |  |  |  |  |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1300896.00  | 82883.17   | 361411.20  |  |  |  |  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1300896.00  | 82883.17   | 361411.20  |  |  |  |  |
| Q Total (cfs)      | 86916.61    | Flow (cfs)             | 63854.07    | 4985.68    | 18076.86   |  |  |  |  |
| Top Width (ft)     | 12400.00    | Top width (ft)         | 9450.00     | 443.75     | 2506.25    |  |  |  |  |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05       |  |  |  |  |
| Max Chl Dpth (ft)  | 191.82      | Hydr. Depth (ft)       | 137.66      | 186.78     | 144.20     |  |  |  |  |
| Conv. Total (cfs)  | 465775400.0 | Conv. (cfs)            | 342186100.0 | 26717610.0 | 96871660.0 |  |  |  |  |
| Length wtd. (ft)   | 45.50       | Wetted Per. (ft)       | 9507.55     | 446.50     | 2567.82    |  |  |  |  |
| Min Ch El (ft)     | 583.38      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00       |  |  |  |  |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00       |  |  |  |  |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 93085.16    | 4239.48    | 30040.04   |  |  |  |  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 675.01      | 22.25      | 207.55     |  |  |  |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 3982.\*

## INPUT

## Description:

|                        |                |                |             |         |         |             |        |         |        |
|------------------------|----------------|----------------|-------------|---------|---------|-------------|--------|---------|--------|
| Station Elevation Data |                |                |             |         |         |             |        |         |        |
| Sta                    | Elev           | Sta            | Elev        | Sta     | Elev    | Sta         | Elev   | Sta     | Elev   |
| 0                      | 720            | 826.09         | 683.91      | 1187.5  | 669     | 1342.39     | 666.03 | 1445.65 | 665.55 |
| 1583.33                | 664.36         | 1755.43        | 666.46      | 1781.25 | 666.48  | 2065.22     | 656.61 | 2271.74 | 651.6  |
| 2276.04                | 651.6          | 2375           | 655.95      | 2684.78 | 662.05  | 2770.83     | 663.45 | 3166.67 | 650.83 |
| 3364.58                | 650.15         | 3958.33        | 640.6       | 4130.43 | 640     | 4255.21     | 640    | 4453.12 | 636.25 |
| 4750                   | 636.25         | 4947.92        | 624.52      | 4956.52 | 624.45  | 5163.04     | 618.64 | 5541.67 | 615.49 |
| 5782.61                | 614.32         | 6333.33        | 611.92      | 6608.7  | 611.5   | 7125        | 611.5  | 7228.26 | 611.11 |
| 7434.78                | 609.83         | 7520.83        | 609.5       | 9104.17 | 609.5   | 9500        | 6102   | 9587.5  | 583.25 |
| 9800                   | 583.25         | 9912.5         | 60011181.63 | 609.71  | 11347.6 | 61011587.75 | 612.09 |         |        |
| 11634.62               | 621.1511993.88 | 701.5812208.63 | 710         | 12400   | 718.75  |             |        |         |        |

|                    |       |     |       |     |       |
|--------------------|-------|-----|-------|-----|-------|
| Manning's n values |       |     |       |     |       |
| Sta                | n Val | Sta | n Val | Sta | n Val |
|                    |       |     |       |     |       |

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|           |      |        |          |              |       |       |        |        |
|-----------|------|--------|----------|--------------|-------|-------|--------|--------|
| 0         | .15  | 9500   | .15      | 9912.5       | .15   |       |        |        |
| Bank Sta: | Left | Right  | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|           | 9500 | 9912.5 |          | 45.5         | 45.5  |       | .1     | .3     |

CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |            |
|--------------------|-------------|------------------------|-------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB   |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 45.50       | 45.50      | 45.50      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1307126.00  | 77416.80   | 357928.70  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1307126.00  | 77416.80   | 357928.70  |
| Q Total (cfs)      | 86913.17    | Flow (cfs)             | 64328.93    | 4680.55    | 17903.70   |
| Top width (ft)     | 12400.00    | Top width (ft)         | 9500.00     | 412.50     | 2487.50    |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05       |
| Max Chl Dpth (ft)  | 191.95      | Hydr. Depth (ft)       | 137.59      | 187.68     | 143.89     |
| Conv. Total (cfs)  | 464386900.0 | Conv. (cfs)            | 343716800.0 | 25008680.0 | 95661470.0 |
| Length wtd. (ft)   | 45.50       | wetted Per. (ft)       | 9557.59     | 415.73     | 2554.12    |
| Min Ch El (ft)     | 583.25      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00       |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 91723.08    | 4155.76    | 29664.36   |
| C & E Loss (ft)    |             | Cum SA (acres)         | 665.11      | 21.80      | 204.94     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 3936.5\*

## INPUT

## Description:

|          |                |         |             |                |
|----------|----------------|---------|-------------|----------------|
| Station  | Elevation      | Data    | num=        | 44             |
| Sta      | Elev           | Sta     | Elev        | Sta            |
| 0        | 720            | 830.43  | 684.57      | 1193.75        |
| 1591.67  | 664.68         | 1764.67 | 667.03      | 1790.62        |
| 2288.02  | 651.8          | 2387.5  | 655.27      | 2698.91        |
| 3382.29  | 650.07         | 3979.17 | 640.3       | 4152.17        |
| 4775     | 635.62         | 4973.96 | 622.26      | 4982.61        |
| 5813.04  | 614.2          | 6366.67 | 611.96      | 6643.48        |
| 7473.91  | 610.13         | 7560.42 | 609.75      | 9152.08        |
| 9850     | 583.12         | 9931.25 | 60011190.82 | 609.8611355.53 |
| 11640.38 | 621.3511996.94 |         | 705.79      | 12210.1        |

Manning's n Values

|     |       |      |       |
|-----|-------|------|-------|
| Sta | n Val | Sta  | n Val |
| 0   | .15   | 9550 | .15   |

|           |      |         |          |              |       |       |        |        |
|-----------|------|---------|----------|--------------|-------|-------|--------|--------|
| Bank Sta: | Left | Right   | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|           | 9550 | 9931.25 |          | 45.5         | 45.5  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |            |
|--------------------|-------------|------------------------|-------------|------------|------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB   |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 45.50       | 45.50      | 45.50      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1313351.00  | 71930.06   | 354447.20  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1313351.00  | 71930.06   | 354447.20  |
| Q Total (cfs)      | 86909.76    | Flow (cfs)             | 64810.37    | 4369.47    | 17729.92   |
| Top width (ft)     | 12400.00    | Top width (ft)         | 9550.00     | 381.25     | 2468.75    |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05       |
| Max Chl Dpth (ft)  | 192.08      | Hydr. Depth (ft)       | 137.52      | 188.67     | 143.57     |
| Conv. Total (cfs)  | 462967000.0 | Conv. (cfs)            | 345243900.0 | 23276070.0 | 94447050.0 |
| Length wtd. (ft)   | 45.50       | wetted Per. (ft)       | 9607.69     | 385.27     | 2540.69    |
| Min Ch El (ft)     | 583.12      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00       |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00       |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 90354.48    | 4077.76    | 29292.31   |
| C & E Loss (ft)    |             | Cum SA (acres)         | 655.16      | 21.39      | 202.35     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 3891

## INPUT

## Description:

|         |           |      |      |       |
|---------|-----------|------|------|-------|
| Station | Elevation | Data | num= | 26    |
| Sta     | Elev      | Sta  | Elev | Sta   |
| 0       | 720       | 1200 | 670  | 1600  |
| 2800    | 665       | 3200 | 650  | 3400  |
| 4500    | 635       | 4800 | 635  | 5000  |
| 7200    | 612       | 7600 | 610  | 9200  |
| 9900    | 583       | 9950 | 600  | 11200 |
| 12400   | 710       |      | 610  | 11600 |

Manning's n Values

|     |       |      |       |
|-----|-------|------|-------|
| Sta | n Val | Sta  | n Val |
| 0   | .15   | 9600 | .15   |

|           |      |       |          |              |       |       |        |        |
|-----------|------|-------|----------|--------------|-------|-------|--------|--------|
| Bank Sta: | Left | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|           | 9600 | 9950  |          | 448          | 448   |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |          |                   |            |          |           |
|--------------------|----------|-------------------|------------|----------|-----------|
| E.G. Elev (ft)     | 775.20   | Element           | Left OB    | Channel  | Right OB  |
| Vel Head (ft)      | 0.00     | wt. n-Val.        | 0.150      | 0.150    | 0.150     |
| W.S. Elev (ft)     | 775.20   | Reach Len. (ft)   | 448.00     | 448.00   | 448.00    |
| Crit W.S. (ft)     |          | Flow Area (sq ft) | 1319568.00 | 66419.94 | 350989.60 |
| E.G. Slope (ft/ft) | 0.000000 | Area (sq ft)      | 1319568.00 | 66419.94 | 350989.60 |
| Q Total (cfs)      | 86906.32 | Flow (cfs)        | 65300.04   | 4048.43  | 17557.86  |

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| Top width (ft)    |             | Top width (ft)         |             | TXU_Rev1.rep |            |  |  |
|-------------------|-------------|------------------------|-------------|--------------|------------|--|--|
| Vel Total (ft/s)  | 12400.00    | Avg. Vel. (ft/s)       | 9600.00     | 350.00       | 2450.00    |  |  |
| Max Chl Dpth (ft) | 0.05        | Hydr. Depth (ft)       | 0.05        | 0.06         | 0.05       |  |  |
| Conv. Total (cfs) | 192.20      | Conv. (cfs)            | 137.46      | 189.77       | 143.26     |  |  |
| Length wtd. (ft)  | 461502700.0 | Wetted Per. (ft)       | 346765800.0 | 21498540.0   | 93238320.0 |  |  |
| Min Ch El (ft)    | 448.00      | Shear (lb/sq ft)       | 9657.87     | 355.62       | 2527.55    |  |  |
| Alpha             | 583.00      | Stream Power (lb/ft s) | 0.00        | 0.00         | 0.00       |  |  |
| Frcn Loss (ft)    | 1.01        | Cum Volume (acre-ft)   | 0.00        | 0.00         | 0.00       |  |  |
| C & E Loss (ft)   | 0.00        | Cum SA (acres)         | 88979.39    | 4005.50      | 28923.88   |  |  |
|                   |             |                        | 645.16      | 21.00        | 199.78     |  |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 3443

INPUT  
Description:

| Station Elevation Data |      | num= 25 |      |       |      |       |      |       |      |
|------------------------|------|---------|------|-------|------|-------|------|-------|------|
| Sta                    | Elev | Sta     | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev |
| 0                      | 720  | 900     | 670  | 1300  | 668  | 1500  | 670  | 1800  | 670  |
| 2200                   | 660  | 2600    | 660  | 2700  | 668  | 4800  | 630  | 5100  | 620  |
| 5800                   | 616  | 7200    | 616  | 7600  | 610  | 9200  | 610  | 9600  | 608  |
| 9800                   | 596  | 10000   | 596  | 10050 | 582  | 10100 | 582  | 10400 | 600  |
| 11200                  | 608  | 11600   | 608  | 11800 | 620  | 12000 | 620  | 13200 | 720  |

|           |       |        |       |       |       |
|-----------|-------|--------|-------|-------|-------|
| Manning's | n     | Values | num=  | 3     |       |
| Sta       | n val | Sta    | n val | Sta   | n val |
| 0         | .15   | 10000  | .15   | 10400 | .15   |

|           |       |       |          |      |         |       |       |        |        |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10000 | 10400 |          | 143  | 143     | 143   |       | .1     | .3     |

CROSS SECTION OUTPUT    Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 143.00      | 143.00     | 143.00      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1377898.00  | 74229.93   | 393359.50   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1377898.00  | 74229.93   | 393359.50   |
| Q Total (cfs)      | 86870.34    | Flow (cfs)             | 64256.47    | 4220.63    | 18393.25    |
| Top width (ft)     | 13200.00    | Top width (ft)         | 10000.00    | 400.00     | 2800.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 193.20      | Hydr. Depth (ft)       | 137.79      | 185.57     | 144.49      |
| Conv. Total (cfs)  | 490395800.0 | Con (cfs)              | 362737200.0 | 23826050.0 | 103832600.0 |
| Length Wd. (ft)    | 143.00      | wetted Per. (ft)       | 10057.98    | 402.46     | 2859.76     |
| Min Chl El. (ft)   | 582.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 75108.13    | 3282.23    | 25096.19    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 544.37      | 17.15      | 172.79      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 3300

INPUT  
Description:

[illegible]

|           |       |        |       |       |       |
|-----------|-------|--------|-------|-------|-------|
| Manning's | n     | Values | num=  | 3     |       |
| Sta       | n Val | Sta    | n Val | Sta   | n Val |
| 0         | .15   | 10200  | .15   | 10400 | .15   |

|           |       |       |          |      |         |       |       |        |        |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10200 | 10400 |          | 243  | 243     | 243   |       | .1     | .3     |

CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 243.00      | 243.00     | 243.00      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1403938.00  | 38039.96   | 392059.50   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1403938.00  | 38039.96   | 392059.50   |
| Q Total (cfs)      | 86858.48    | Flow (cfs)             | 66182.70    | 2177.50    | 18498.28    |
| Top width (ft)     | 13200.00    | Top width (ft)         | 10200.00    | 200.00     | 2800.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 195.20      | Hydr. Depth (ft)       | 137.64      | 190.20     | 140.02      |
| Conv. Total (cfs)  | 484761800.0 | Conv. (cfs)            | 369369200.0 | 12152770.0 | 103239900.0 |
| Length wtd. (ft)   | 243.00      | Wtd Power (ft)         | 10257.34    | 207.79     | 2860.66     |
| Min Chl El (ft)    | 580.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.00        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 70541.98    | 3097.95    | 23806.99    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 511.21      | 16.16      | 163.59      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK



TXU\_Rev1.rep

REACH: SC RS: 3057

INPUT  
Description:  
Station Elevation Data num= 26

| Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev |
|-------|------|-------|------|-------|------|-------|------|-------|------|
| 0     | 720  | 900   | 676  | 1300  | 669  | 1600  | 673  | 2200  | 661  |
| 2600  | 670  | 2800  | 670  | 3700  | 649  | 4100  | 649  | 5200  | 620  |
| 5700  | 614  | 7600  | 614  | 8000  | 608  | 9200  | 608  | 9600  | 606  |
| 10000 | 600  | 10200 | 600  | 10250 | 579  | 10350 | 579  | 10400 | 600  |
| 11600 | 608  | 11800 | 608  | 11900 | 620  | 12300 | 620  | 12600 | 660  |
| 13600 | 720  |       |      |       |      |       |      |       |      |

Manning's n Values num= 3

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10200 | .15   |
|     |       | 10400 | .15   |

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

| Left  | Right | Left | Channel | Right | Coeff | Contr. | Expan. |
|-------|-------|------|---------|-------|-------|--------|--------|
| 10200 | 10400 | 127  | 127     | 127   | .1    | .1     | .3     |

CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 127.00      | 127.00     | 127.00      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1403937.00  | 38189.94   | 442839.10   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1403937.00  | 38189.94   | 442839.10   |
| Q Total (cfs)      | 86838.54    | Flow (cfs)             | 64475.18    | 2130.10    | 20233.26    |
| Top width (ft)     | 13600.00    | Top width (ft)         | 10200.00    | 200.00     | 3200.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 196.20      | Hydr. Depth (ft)       | 137.64      | 190.95     | 138.39      |
| Conv. Total (cfs)  | 497485100.0 | Conv. (cfs)            | 369368700.0 | 12203030.0 | 115913400.0 |
| Length wtd. (ft)   | 127.00      | wetted Per. (ft)       | 10257.34    | 208.46     | 3260.40     |
| Min Ch El (ft)     | 579.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.00        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum volume (acre-ft)   | 62710.09    | 2885.33    | 21478.25    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 454.31      | 15.05      | 146.86      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 2930

INPUT  
Description:  
Station Elevation Data num= 25

| Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev |
|-------|------|-------|------|-------|------|-------|------|-------|------|
| 0     | 720  | 900   | 676  | 1300  | 669  | 1600  | 673  | 2200  | 661  |
| 2600  | 670  | 2800  | 670  | 3700  | 649  | 4100  | 649  | 5200  | 620  |
| 5700  | 614  | 7600  | 614  | 8000  | 608  | 9200  | 608  | 9600  | 606  |
| 10000 | 600  | 10200 | 600  | 10250 | 578  | 10350 | 578  | 10400 | 600  |
| 11600 | 610  | 12000 | 620  | 12300 | 620  | 12600 | 660  | 13600 | 720  |

Manning's n Values num= 3

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10200 | .15   |
|     |       | 10400 | .15   |

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

| Left  | Right | Left   | Channel | Right  | Coeff | Contr. | Expan. |
|-------|-------|--------|---------|--------|-------|--------|--------|
| 10200 | 10400 | 242.06 | 242.06  | 242.06 | .1    | .1     | .3     |

CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 242.06      | 242.06     | 242.06      |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1403937.00  | 38339.94   | 440639.10   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1403937.00  | 38339.94   | 440639.10   |
| Q Total (cfs)      | 86827.98    | Flow (cfs)             | 64583.59    | 2142.26    | 20102.13    |
| Top width (ft)     | 13600.00    | Top width (ft)         | 10200.00    | 200.00     | 3200.00     |
| Vel Total (ft/s)   | 0.05        | Avg. Vel. (ft/s)       | 0.05        | 0.06       | 0.05        |
| Max Chl Dpth (ft)  | 197.20      | Hydr. Depth (ft)       | 137.64      | 191.70     | 137.70      |
| Conv. Total (cfs)  | 496589500.0 | Conv. (cfs)            | 369368700.0 | 12252080.0 | 114968800.0 |
| Length wtd. (ft)   | 242.06      | wetted Per. (ft)       | 10257.34    | 209.25     | 3259.82     |
| Min Ch El (ft)     | 578.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.00        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum volume (acre-ft)   | 58616.89    | 2773.76    | 20190.35    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 424.57      | 14.46      | 137.53      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 2688

INPUT  
Description:  
Station Elevation Data num= 25

| Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev |
|-------|------|-------|------|-------|------|-------|------|-------|------|
| 0     | 720  | 900   | 676  | 1300  | 669  | 1600  | 673  | 2200  | 661  |
| 2600  | 670  | 2800  | 670  | 3700  | 649  | 4100  | 649  | 5200  | 620  |
| 5700  | 614  | 7600  | 614  | 8000  | 608  | 9200  | 608  | 9600  | 606  |
| 10000 | 600  | 10300 | 600  | 10350 | 577  | 10400 | 577  | 10600 | 600  |
| 12000 | 610  | 12200 | 620  | 12500 | 620  | 13000 | 660  | 14000 | 720  |

Manning's n Values num= 3

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10300 | .15   |
|     |       | 10600 | .15   |

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

| Left | Right | Left | Channel | Right | Coeff | Contr. | Expan. |
|------|-------|------|---------|-------|-------|--------|--------|
|      |       |      |         |       |       |        |        |

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|                      |                 |                        |             |            |              |    |
|----------------------|-----------------|------------------------|-------------|------------|--------------|----|
| 10300                | 10600           | 239.04                 | 239.04      | 239.04     | TXU_Rev1.rep | .3 |
| CROSS SECTION OUTPUT | Profile #Max WS |                        |             |            |              |    |
| E.G. Elev (ft)       | 775.20          | Element                | Left OB     | Channel    | Right OB     |    |
| Vel Head (ft)        | 0.00            | Wt. n-Val.             | 0.150       | 0.150      | 0.150        |    |
| W.S. Elev (ft)       | 775.20          | Reach Len. (ft)        | 239.04      | 239.04     | 239.04       |    |
| Crit W.S. (ft)       |                 | Flow Area (sq ft)      | 1421457.00  | 56584.91   | 469679.00    |    |
| E.G. Slope (ft/ft)   | 0.000000        | Area (sq ft)           | 1421457.00  | 56584.91   | 469679.00    |    |
| Q Total (cfs)        | 86807.49        | Flow (cfs)             | 63058.87    | 3059.90    | 20688.72     |    |
| Top width (ft)       | 14000.00        | Top width (ft)         | 10300.00    | 300.00     | 3400.00      |    |
| Vel Total (ft/s)     | 0.04            | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04         |    |
| Max Chl Dpth (ft)    | 198.20          | Hydr. Depth (ft)       | 138.01      | 188.62     | 138.14       |    |
| Conv. Total (cfs)    | 515749600.0     | Conv. (cfs)            | 374651900.0 | 18179790.0 | 122918000.0  |    |
| Length wtd. (ft)     | 239.04          | Wetted Per. (ft)       | 10357.34    | 306.35     | 3458.88      |    |
| Min Ch El (ft)       | 577.00          | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00         |    |
| Alpha                | 1.00            | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00         |    |
| Frctn Loss (ft)      | 0.00            | Cum Volume (acre-ft)   | 50766.63    | 2510.02    | 17661.06     |    |
| C & E Loss (ft)      |                 | Cum SA (acres)         | 367.62      | 13.07      | 119.19       |    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 2449

## INPUT

## Description:

| Station | Elevation | Data  | num= | 24    |      |       |      |       |      |  |
|---------|-----------|-------|------|-------|------|-------|------|-------|------|--|
| Sta     | Elev      | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev |  |
| 0       | 720       | 900   | 676  | 1300  | 669  | 1600  | 673  | 2200  | 661  |  |
| 2600    | 670       | 2800  | 670  | 3700  | 649  | 4100  | 649  | 5200  | 620  |  |
| 5700    | 614       | 7600  | 614  | 8000  | 608  | 9200  | 608  | 9600  | 606  |  |
| 10000   | 600       | 10300 | 600  | 10350 | 576  | 10400 | 576  | 10600 | 600  |  |
| 12200   | 610       | 12800 | 640  | 13000 | 640  | 13600 | 690  |       |      |  |

## Manning's n values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10300 | .15   | 10600 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left   | Channel | Right  | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------|---------|--------|-------|--------|--------|
|           | 10300 | 10600 |          | 252.96 | 252.96  | 252.96 |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |  |
|--------------------|-------------|------------------------|-------------|------------|-------------|--|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |  |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |  |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 252.96      | 252.96     | 252.96      |  |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1421457.00  | 56759.91   | 455599.10   |  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1421457.00  | 56759.91   | 455599.10   |  |
| Q Total (cfs)      | 86786.89    | Flow (cfs)             | 62659.01    | 3052.59    | 21075.30    |  |
| Top width (ft)     | 13600.00    | Top width (ft)         | 10300.00    | 300.00     | 3000.00     |  |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.05        |  |
| Max Chl Dpth (ft)  | 199.20      | Hydr. Depth (ft)       | 138.01      | 189.20     | 151.87      |  |
| Conv. Total (cfs)  | 518917800.0 | Conv. (cfs)            | 374651900.0 | 18252070.0 | 126013800.0 |  |
| Length wtd. (ft)   | 252.96      | Wetted Per. (ft)       | 10357.34    | 306.90     | 3088.06     |  |
| Min Ch El (ft)     | 576.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |  |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |  |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 42966.23    | 2199.02    | 15122.28    |  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 311.09      | 11.43      | 101.63      |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 2196

## INPUT

## Description:

| Station | Elevation | Data  | num= | 25    |      |       |      |       |      |  |
|---------|-----------|-------|------|-------|------|-------|------|-------|------|--|
| Sta     | Elev      | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev |  |
| 0       | 720       | 900   | 676  | 1300  | 669  | 1600  | 673  | 2200  | 661  |  |
| 2600    | 670       | 2800  | 670  | 3700  | 649  | 4100  | 649  | 5200  | 620  |  |
| 5700    | 614       | 7600  | 614  | 8000  | 608  | 9200  | 608  | 9600  | 606  |  |
| 10000   | 600       | 10300 | 600  | 10350 | 575  | 10400 | 575  | 10600 | 600  |  |
| 12200   | 610       | 12800 | 650  | 13000 | 645  | 13200 | 645  | 13600 | 690  |  |

## Manning's n values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10300 | .15   | 10600 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
|           | 10300 | 10600 |          | 25   | 25      | 25    |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |  |
|--------------------|-------------|------------------------|-------------|------------|-------------|--|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |  |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |  |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 25.00       | 25.00      | 25.00       |  |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1421457.00  | 56934.91   | 454099.10   |  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1421457.00  | 56934.91   | 454099.10   |  |
| Q Total (cfs)      | 86765.05    | Flow (cfs)             | 62721.63    | 3067.61    | 20975.80    |  |
| Top width (ft)     | 13600.00    | Top width (ft)         | 10300.00    | 300.00     | 3000.00     |  |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.05        |  |
| Max Chl Dpth (ft)  | 200.20      | Hydr. Depth (ft)       | 138.01      | 189.78     | 151.37      |  |
| Conv. Total (cfs)  | 518269200.0 | Conv. (cfs)            | 374651900.0 | 18323610.0 | 125293700.0 |  |
| Length wtd. (ft)   | 25.00       | Wetted Per. (ft)       | 10357.34    | 307.46     | 3089.15     |  |
| Min Ch El (ft)     | 575.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |  |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |  |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 34711.60    | 1868.90    | 12480.90    |  |

C & E Loss (ft) Cum SA (acres) TXU\_Rev1.rep 251.28 9.69 84.21

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 2171.\*

## INPUT

## Description:

| Station  | Elev   | Data     | num=   | 49       | Sta    | Elev     | Sta         | Elev     | Sta    | Elev |
|----------|--------|----------|--------|----------|--------|----------|-------------|----------|--------|------|
| 0        | 720    | 584.72   | 690.35 | 902.62   | 676.07 | 974.53   | 674.87      | 1266.89  | 670.48 |      |
| 1303.79  | 669.84 | 1604.66  | 672.96 | 1949.06  | 666.22 | 2143.96  | 663.02      | 2206.41  | 661.9  |      |
| 2607.57  | 670    | 2728.68  | 670    | 2808.16  | 669.84 | 3703.21  | 649.26      | 3710.78  | 649.1  |      |
| 4111.94  | 649.1  | 4385.38  | 642.63 | 4482.83  | 639.33 | 4677.74  | 634.71      | 5067.55  | 623.49 |      |
| 5215.15  | 619.87 | 5716.6   | 614.03 | 5749.72  | 614    | 7601.32  | 614         | 7622.14  | 614.02 |      |
| 7698.77  | 613.07 | 8023.3   | 608.7  | 8186.04  | 608.7  | 8186.04  | 608.2       | 8965.66  | 608.2  |      |
| 9226.8   | 607.89 | 9550.38  | 606.05 | 9627.96  | 605.58 | 9745.28  | 603.82      | 10029.13 | 600    |      |
| 10330    | 600    | 10385    | 574.9  | 10440    | 574.9  | 10640    | 60011981.18 |          | 608.44 |      |
| 12249.41 | 609.93 | 12261.33 | 610.13 | 12607.06 | 634.47 | 12785.88 | 646.06      | 12869.33 | 651    |      |
| 13072    | 646.51 | 13143.53 | 646.51 | 13274.67 | 647.36 | 13680    | 690.5       |          |        |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10330 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
|           | 10330 | 10640 |          | 25   | 25      |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 25.00       | 25.00      | 25.00       |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1425043.00  | 58892.66   | 458104.20   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1425043.00  | 58892.66   | 458104.20   |
| Q Total (cfs)      | 86762.91    | Flow (cfs)             | 62584.22    | 3165.72    | 21012.97    |
| Top width (ft)     | 13680.00    | Top width (ft)         | 10330.00    | 310.00     | 3040.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.05        |
| Max Chl Dpth (ft)  | 200.30      | Hydr. Depth (ft)       | 137.95      | 189.98     | 150.69      |
| Conv. Total (cfs)  | 520560900.0 | Conv. (cfs)            | 375493400.0 | 18993700.0 | 126073800.0 |
| Length wtd. (ft)   | 25.00       | Wetted Per. (ft)       | 10387.77    | 317.03     | 3128.45     |
| Min Ch El (ft)     | 574.90      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 33894.77    | 1835.66    | 12219.13    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 245.36      | 9.51       | 82.48       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 2146.\*

## INPUT

## Description:

| Station  | Elev        | Data     | num=        | 49       | Sta    | Elev     | Sta         | Elev     | Sta    | Elev |
|----------|-------------|----------|-------------|----------|--------|----------|-------------|----------|--------|------|
| 0        | 720         | 586.42   | 689.2       | 905.24   | 676.15 | 977.36   | 675         | 1270.57  | 671.32 |      |
| 1307.57  | 670.68      | 1609.32  | 672.91      | 1954.72  | 666.31 | 2150.19  | 663.8       | 2212.82  | 662.8  |      |
| 2615.15  | 670         | 2736.6   | 670         | 2816.31  | 669.67 | 3713.96  | 649.34      | 3721.55  | 649.2  |      |
| 4123.88  | 649.2       | 4398.11  | 643.45      | 4495.85  | 639.4  | 4691.32  | 635.3       | 5082.26  | 623.1  |      |
| 5230.29  | 619.74      | 5733.2   | 614.06      | 5766.42  | 614    | 7623.4   | 614         | 7644.27  | 614.04 |      |
| 7721.13  | 613.28      | 8046.6   | 609.4       | 8209.81  | 609.4  | 8209.81  | 608.4       | 8991.7   | 608.4  |      |
| 9253.59  | 607.77      | 9578.11  | 605.71      | 9655.92  | 605.16 | 9773.58  | 603.41      | 10058.25 | 600    |      |
| 10360    | 600         | 10420    | 574.8       | 10480    | 574.8  | 10680    | 60012038.82 |          | 608.62 |      |
| 12310.59 | 609.94      | 12322.67 | 610.27      | 12672.94 | 636.21 | 12854.12 | 647.61      | 12938.67 | 652    |      |
| 13144    | 64813216.47 |          | 64813349.33 |          | 649.71 | 13760    | 691         |          |        |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10360 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
|           | 10360 | 10680 |          | 25   | 25      |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 25.00       | 25.00      | 25.00       |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1428634.00  | 60851.87   | 462043.60   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1428634.00  | 60851.87   | 462043.60   |
| Q Total (cfs)      | 86760.76    | Flow (cfs)             | 62451.72    | 3262.87    | 21046.17    |
| Top width (ft)     | 13760.00    | Top width (ft)         | 10360.00    | 320.00     | 3080.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.05        |
| Max Chl Dpth (ft)  | 200.40      | Hydr. Depth (ft)       | 137.90      | 190.16     | 150.01      |
| Conv. Total (cfs)  | 522823600.0 | Conv. (cfs)            | 376336400.0 | 19662160.0 | 126825000.0 |
| Length wtd. (ft)   | 25.00       | Wetted Per. (ft)       | 10418.22    | 326.66     | 3167.79     |
| Min Ch El (ft)     | 574.80      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 33075.88    | 1801.30    | 11955.08    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 239.42      | 9.33       | 80.72       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION



TXU\_Rev1.rep

RIVER: SQUAW CREEK  
REACH: SC

RS: 2121.\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=   | 49       | Sta    | Elev     | Sta    | Elev     | Sta    | Elev | Sta | Elev |
|----------|-----------|----------|--------|----------|--------|----------|--------|----------|--------|------|-----|------|
| 0        | 720       | 588.11   | 688.05 | 907.86   | 676.22 | 980.19   | 675.12 | 1274.25  | 672.15 |      |     |      |
| 1311.36  | 671.52    | 1613.98  | 672.87 | 1960.38  | 666.39 | 2156.42  | 664.57 | 2219.22  | 663.7  |      |     |      |
| 2622.72  | 670       | 2744.53  | 670    | 2824.47  | 669.51 | 3724.72  | 649.42 | 3732.33  | 649.3  |      |     |      |
| 4135.83  | 649.3     | 4410.85  | 644.27 | 4508.87  | 639.48 | 4704.91  | 635.89 | 5096.98  | 622.72 |      |     |      |
| 5245.44  | 619.61    | 5749.81  | 614.09 | 5783.11  | 614    | 7645.47  | 614    | 7666.41  | 614.06 |      |     |      |
| 7743.49  | 613.5     | 8069.9   | 610.1  | 8233.58  | 610.1  | 8233.58  | 608.6  | 9017.74  | 608.6  |      |     |      |
| 9280.39  | 607.66    | 9605.85  | 605.37 | 9683.88  | 604.74 | 9801.89  | 602.97 | 10087.38 | 600    |      |     |      |
| 10390    | 600       | 10455    | 574.7  | 10520    | 574.7  | 10720    | 600    | 12096.47 | 608.79 |      |     |      |
| 12371.76 | 609.95    | 12384    | 610.41 | 12738.82 | 637.92 | 12922.35 | 649.16 | 13008    | 653    |      |     |      |
| 13216    | 649.51    | 13289.41 | 649.5  | 13424    | 652.07 | 13840    | 691.5  |          |        |      |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10390 | .15   | 10720 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10390 | 10720 |          | 25           | 25    |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | Wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 25.00       | 25.00      | 25.00       |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1432217.00  | 62812.61   | 465939.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1432217.00  | 62812.61   | 465939.30   |
| Q Total (cfs)      | 86758.60    | Flow (cfs)             | 62322.50    | 3359.14    | 21076.96    |
| Top width (ft)     | 13840.00    | Top width (ft)         | 10390.00    | 330.00     | 3120.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.05        |
| Max Chl Dpth (ft)  | 200.50      | Hydr. Depth (ft)       | 137.85      | 190.34     | 149.34      |
| Conv. Total (cfs)  | 525062500.0 | Conv. (cfs)            | 377175400.0 | 20329470.0 | 127557600.0 |
| Length wtd. (ft)   | 25.00       | Wetted Per. (ft)       | 10448.71    | 336.34     | 3207.15     |
| Min Ch El (ft)     | 574.70      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 32254.93    | 1765.81    | 11688.79    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 233.47      | 9.14       | 78.94       |

warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 2096.\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=   | 49       | Sta    | Elev     | Sta    | Elev     | Sta    | Elev | Sta | Elev |
|----------|-----------|----------|--------|----------|--------|----------|--------|----------|--------|------|-----|------|
| 0        | 720       | 589.81   | 686.9  | 910.49   | 676.3  | 983.02   | 675.25 | 1277.92  | 672.99 |      |     |      |
| 1315.15  | 672.36    | 1618.64  | 672.82 | 1966.04  | 666.48 | 2162.64  | 665.35 | 2225.63  | 664.6  |      |     |      |
| 2630.29  | 670       | 2752.45  | 670    | 2832.62  | 669.35 | 3735.47  | 649.51 | 3743.11  | 649.4  |      |     |      |
| 4147.77  | 649.4     | 4423.58  | 645.09 | 4521.89  | 639.55 | 4718.49  | 636.48 | 5111.7   | 622.33 |      |     |      |
| 5260.58  | 619.48    | 5766.41  | 614.12 | 5799.81  | 614    | 7667.55  | 614    | 7688.54  | 614.09 |      |     |      |
| 7765.85  | 613.71    | 8093.2   | 610.8  | 8257.36  | 610.8  | 8257.36  | 608.8  | 9043.77  | 608.8  |      |     |      |
| 9307.18  | 607.55    | 9633.58  | 605.03 | 9711.84  | 604.32 | 9830.19  | 602.55 | 10116.5  | 600    |      |     |      |
| 10420    | 600       | 10490    | 574.6  | 10560    | 574.6  | 10760    | 600    | 12154.12 | 608.96 |      |     |      |
| 12432.94 | 609.96    | 12445.33 | 610.53 | 12804.71 | 639.65 | 12990.59 | 650.71 | 13077.33 | 654    |      |     |      |
| 13288    | 651       | 13362.35 | 651    | 13498.67 | 654.42 | 13920    | 692    |          |        |      |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10420 | .15   | 10760 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10420 | 10760 |          | 25           | 25    |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | Wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 25.00       | 25.00      | 25.00       |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1435790.00  | 64774.86   | 469781.20   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1435790.00  | 64774.86   | 469781.20   |
| Q Total (cfs)      | 86756.45    | Flow (cfs)             | 62196.96    | 3454.65    | 21104.84    |
| Top width (ft)     | 13920.00    | Top width (ft)         | 10420.00    | 340.00     | 3160.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 200.60      | Hydr. Depth (ft)       | 137.79      | 190.51     | 148.66      |
| Conv. Total (cfs)  | 527272400.0 | Conv. (cfs)            | 378009300.0 | 20996010.0 | 128267100.0 |
| Length wtd. (ft)   | 25.00       | Wetted Per. (ft)       | 10479.23    | 346.07     | 3246.55     |
| Min Ch El (ft)     | 574.60      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 31431.93    | 1729.20    | 11420.27    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 227.50      | 8.95       | 77.14       |

warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 2071.\*

## INPUT

## Description:

| Station | Elevation | Data   | num=   | 49     | Sta    | Elev   | Sta    | Elev   | Sta    | Elev | Sta | Elev |
|---------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|------|
| 0       | 720       | 591.51 | 685.75 | 913.11 | 676.37 | 985.85 | 675.37 | 1281.6 | 673.82 |      |     |      |

|                                      |             |                        |             |            |             |          |             |          |        |
|--------------------------------------|-------------|------------------------|-------------|------------|-------------|----------|-------------|----------|--------|
| TXU_Rev1.rep                         |             |                        |             |            |             |          |             |          |        |
| 1318.93                              | 673.2       | 1623.3                 | 672.78      | 1971.7     | 666.57      | 2168.87  | 666.12      | 2232.04  | 665.5  |
| 2637.86                              | 670         | 2760.38                | 670         | 2840.78    | 669.18      | 3746.23  | 649.59      | 3753.88  | 649.5  |
| 4159.71                              | 649.5       | 4436.32                | 645.91      | 4534.91    | 639.63      | 4732.08  | 637.06      | 5126.42  | 621.94 |
| 5275.73                              | 619.35      | 5783.01                | 614.15      | 5816.51    | 614         | 7689.62  | 614         | 7710.68  | 614.11 |
| 7788.21                              | 613.93      | 8116.5                 | 611.5       | 8281.13    | 611.5       | 8281.13  | 609         | 9069.81  | 609    |
| 9333.98                              | 607.44      | 9661.32                | 604.69      | 9739.81    | 603.9       | 9858.49  | 602.12      | 10145.63 | 600    |
| 10450                                | 600         | 10525                  | 574.5       | 10600      | 574.5       | 10800    | 60012211.76 | 609.14   | 609.14 |
| 12494.12                             | 609.96      | 12506.67               | 610.67      | 12870.59   | 641.37      | 13058.82 | 652.25      | 13146.67 | 655    |
| 13360                                | 652.51      | 13435.29               | 652.51      | 13573.33   | 656.78      | 14000    | 692.5       |          |        |
| Manning's n values                   |             |                        |             |            |             |          |             |          |        |
| Sta                                  | n Val       | Sta                    | n Val       | Sta        | n Val       | Sta      | n Val       | Sta      | n Val  |
| 0                                    | .15         | 10450                  | .15         | 10800      | .15         |          |             |          |        |
| Bank Sta: Left                       | Right       | Lengths: Left          | Channel     | Right      | Coeff       | Contr.   | Expan.      |          |        |
| 10450                                | 10800       | 25                     | 25          | 25         | .1          | .3       |             |          |        |
| CROSS SECTION OUTPUT Profile #Max WS |             |                        |             |            |             |          |             |          |        |
| E.G. Elev (ft)                       | 775.20      | Element                | Left OB     | Channel    | Right OB    |          |             |          |        |
| Vel Head (ft)                        | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |          |             |          |        |
| W.S. Elev (ft)                       | 775.20      | Reach Len. (ft)        | 25.00       | 25.00      | 25.00       |          |             |          |        |
| Crit W.S. (ft)                       |             | Flow Area (sq ft)      | 1439374.00  | 66738.60   | 473561.40   |          |             |          |        |
| E.G. Slope (ft/ft)                   | 0.000000    | Area (sq ft)           | 1439374.00  | 66738.60   | 473561.40   |          |             |          |        |
| Q Total (cfs)                        | 86754.28    | Flow (cfs)             | 62075.82    | 3549.42    | 21129.04    |          |             |          |        |
| Top width (ft)                       | 14000.00    | Top width (ft)         | 10450.00    | 350.00     | 3200.00     |          |             |          |        |
| Vel Total (ft/s)                     | 0.04        | Avg. Vel (ft/s)        | 0.04        | 0.05       | 0.04        |          |             |          |        |
| Max Chl Dpth (ft)                    | 200.70      | Hydr. Depth (ft)       | 137.74      | 190.68     | 147.99      |          |             |          |        |
| Conv. Total (cfs)                    | 529459500.0 | Conv. (cfs)            | 378847300.0 | 21662050.0 | 128950100.0 |          |             |          |        |
| Length wtd. (ft)                     | 25.00       | Wetted Per. (ft)       | 10509.77    | 355.84     | 3285.97     |          |             |          |        |
| Min Ch El (ft)                       | 574.50      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |          |             |          |        |
| Alpha                                | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |          |             |          |        |
| Frctn Loss (ft)                      | 0.00        | Cum Volume (acre-ft)   | 30606.87    | 1691.46    | 11149.57    |          |             |          |        |
| C & E Loss (ft)                      |             | Cum SA (acres)         | 221.51      | 8.75       | 75.31       |          |             |          |        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 2046.\*

INPUT  
Description:

|          |             |         |        |          |        |          |             |          |        |
|----------|-------------|---------|--------|----------|--------|----------|-------------|----------|--------|
| Station  | Elevation   | Data    | num=   | 49       |        |          |             |          |        |
| Sta      | Elev        | Sta     | Elev   | Sta      | Elev   | Sta      | Elev        | Sta      | Elev   |
| 0        | 720         | 593.21  | 684.6  | 915.73   | 676.44 | 988.68   | 675.5       | 1285.28  | 674.66 |
| 1322.72  | 674.04      | 1627.96 | 672.73 | 1977.36  | 666.65 | 2175.09  | 666.9       | 2238.45  | 666.4  |
| 2645.44  | 670         | 2768.3  | 670    | 2848.93  | 669.02 | 3756.98  | 649.67      | 3764.66  | 649.6  |
| 4171.65  | 649.6       | 4449.06 | 646.72 | 4547.92  | 639.7  | 4745.66  | 637.65      | 5141.13  | 621.55 |
| 5290.87  | 619.22      | 5799.61 | 614.17 | 5833.21  | 614    | 7711.7   | 614         | 7732.82  | 614.13 |
| 7810.57  | 614.14      | 8139.81 | 612.2  | 8304.91  | 612.2  | 8304.91  | 609.2       | 9095.85  | 609.2  |
| 9360.78  | 607.32      | 9689.06 | 604.35 | 9767.77  | 603.48 | 9886.79  | 601.71      | 10174.76 | 600    |
| 10480    | 600         | 10560   | 574.4  | 10640    | 574.4  | 10840    | 60012269.41 | 609.31   | 609.31 |
| 12555.29 | 609.97      | 12568   | 610.81 | 12936.47 | 643.11 | 13127.06 | 653.8       | 13216    | 656    |
| 13432    | 65413508.24 |         | 654    | 13648    | 659.13 | 14080    | 693         |          |        |

|                    |       |               |         |       |       |        |        |     |       |
|--------------------|-------|---------------|---------|-------|-------|--------|--------|-----|-------|
| Manning's n values |       |               |         |       |       |        |        |     |       |
| Sta                | n Val | Sta           | n Val   | Sta   | n Val | Sta    | n Val  | Sta | n Val |
| 0                  | .15   | 10480         | .15     | 10840 | .15   |        |        |     |       |
| Bank Sta: Left     | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |     |       |
| 10480              | 10840 | 25            | 25      | 25    | .1    | .3     |        |     |       |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |  |  |  |  |
|--------------------|-------------|------------------------|-------------|------------|-------------|--|--|--|--|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |  |  |  |  |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |  |  |  |  |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 25.00       | 25.00      | 25.00       |  |  |  |  |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1442958.00  | 68703.84   | 477295.20   |  |  |  |  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1442958.00  | 68703.84   | 477295.20   |  |  |  |  |
| Q Total (cfs)      | 86752.11    | Flow (cfs)             | 61957.91    | 3643.51    | 21150.68    |  |  |  |  |
| Top width (ft)     | 14080.00    | Top width (ft)         | 10480.00    | 360.00     | 3240.00     |  |  |  |  |
| Vel Total (ft/s)   | 0.04        | Avg. Vel (ft/s)        | 0.04        | 0.05       | 0.04        |  |  |  |  |
| Max Chl Dpth (ft)  | 200.80      | Hydr. Depth (ft)       | 137.69      | 190.84     | 147.31      |  |  |  |  |
| Conv. Total (cfs)  | 531626100.0 | Conv. (cfs)            | 379684600.0 | 22327810.0 | 129613600.0 |  |  |  |  |
| Length wtd. (ft)   | 25.00       | Wetted Per. (ft)       | 10540.35    | 365.63     | 3325.43     |  |  |  |  |
| Min Ch El (ft)     | 574.40      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |  |  |  |  |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |  |  |  |  |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 29779.75    | 1652.60    | 10876.71    |  |  |  |  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 215.50      | 8.55       | 73.47       |  |  |  |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 2021.\*

INPUT  
Description:

|          |           |          |        |          |        |          |             |          |        |
|----------|-----------|----------|--------|----------|--------|----------|-------------|----------|--------|
| Station  | Elevation | Data     | num=   | 49       |        |          |             |          |        |
| Sta      | Elev      | Sta      | Elev   | Sta      | Elev   | Sta      | Elev        | Sta      | Elev   |
| 0        | 720       | 594.91   | 683.45 | 918.35   | 676.52 | 991.51   | 675.62      | 1288.96  | 675.49 |
| 1326.5   | 674.88    | 1632.62  | 672.69 | 1983.02  | 666.74 | 2181.32  | 667.67      | 2244.85  | 667.3  |
| 2653.01  | 670       | 2776.23  | 670    | 2857.09  | 668.86 | 3767.74  | 649.75      | 3775.44  | 649.7  |
| 4183.59  | 649.7     | 4461.79  | 647.54 | 4560.94  | 639.78 | 4759.25  | 638.24      | 5155.85  | 621.16 |
| 5306.02  | 619.09    | 5816.21  | 614.2  | 5849.91  | 614    | 7733.77  | 614         | 7754.95  | 614.15 |
| 7832.92  | 614.36    | 8163.11  | 612.9  | 8328.68  | 612.9  | 8328.68  | 609.4       | 9121.89  | 609.4  |
| 9387.57  | 607.21    | 9716.79  | 604.02 | 9795.73  | 603.06 | 9915.09  | 601.27      | 10203.88 | 600    |
| 10510    | 600       | 10595    | 574.3  | 10680    | 574.3  | 10880    | 60012327.06 | 609.48   | 609.48 |
| 12616.47 | 609.98    | 12629.33 | 610.93 | 13002.35 | 644.82 | 13195.29 | 655.35      | 13285.33 | 657    |

| TXU_Rev1.rep                         |               |                        |             |            |             |       |       |        |        |
|--------------------------------------|---------------|------------------------|-------------|------------|-------------|-------|-------|--------|--------|
| 13504                                | 655.513581.18 | 655.513722.67          | 661.49      | 14160      | 693.5       |       |       |        |        |
| Manning's n Values                   |               | num=                   | 3           |            |             |       |       |        |        |
| Sta                                  | n Val         | Sta                    | n Val       | Sta        | n Val       |       |       |        |        |
| 0                                    | .15           | 10510                  | .15         | 10880      | .15         |       |       |        |        |
| Bank Sta:                            | Left          | Right                  | Lengths:    | Left       | Channel     | Right | Coeff | Contr. | Expan. |
|                                      | 10510         | 10880                  |             | 25         | 25          | 25    | .1    | .3     |        |
| CROSS SECTION OUTPUT Profile #Max WS |               |                        |             |            |             |       |       |        |        |
| E.G. Elev (ft)                       | 775.20        | Element                | Left OB     | Channel    | Right OB    |       |       |        |        |
| Vel Head (ft)                        | 0.00          | wt. n-val.             | 0.150       | 0.150      | 0.150       |       |       |        |        |
| W.S. Elev (ft)                       | 775.20        | Reach Len. (ft)        | 25.00       | 25.00      | 25.00       |       |       |        |        |
| Crit W.S. (ft)                       |               | Flow Area (sq ft)      | 1446523.00  | 70670.60   | 480974.80   |       |       |        |        |
| E.G. Slope (ft/ft)                   | 0.000000      | Area (sq ft)           | 1446523.00  | 70670.60   | 480974.80   |       |       |        |        |
| Q Total (cfs)                        | 86749.91      | Flow (cfs)             | 61843.20    | 3737.03    | 21169.68    |       |       |        |        |
| Top Width (ft)                       | 14160.00      | Top width (ft)         | 10510.00    | 370.00     | 3280.00     |       |       |        |        |
| Vel Total (ft/s)                     | 0.04          | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |       |       |        |        |
| Max Chl Dpth (ft)                    | 200.90        | Hydr. Depth (ft)       | 137.63      | 191.00     | 146.64      |       |       |        |        |
| Conv. Total (cfs)                    | 533761400.0   | Conv. (cfs)            | 380513500.0 | 22993470.0 | 130254400.0 |       |       |        |        |
| Length wtd. (ft)                     | 25.00         | wetted Per. (ft)       | 10570.96    | 375.44     | 3364.91     |       |       |        |        |
| Min Ch El (ft)                       | 574.30        | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |       |       |        |        |
| Alpha                                | 1.01          | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |       |       |        |        |
| Frctn Loss (ft)                      | 0.00          | Cum Volume (acre-ft)   | 28950.59    | 1612.60    | 10601.73    |       |       |        |        |
| C & E Loss (ft)                      |               | Cum SA (acres)         | 209.48      | 8.34       | 71.59       |       |       |        |        |

warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 1996.\*

| INPUT                  |             |          |             |          |        |          |             |          |        |     |      |
|------------------------|-------------|----------|-------------|----------|--------|----------|-------------|----------|--------|-----|------|
| Description:           |             |          |             |          |        |          |             |          |        |     |      |
| Station Elevation Data |             |          |             |          |        |          |             |          |        |     |      |
| Sta                    | Elev        | Sta      | Elev        | Sta      | Elev   | Sta      | Elev        | Sta      | Elev   | Sta | Elev |
| 0                      | 720         | 596.6    | 682.3       | 920.97   | 676.59 | 994.34   | 675.75      | 1292.64  | 676.33 |     |      |
| 1330.29                | 675.72      | 1637.28  | 672.64      | 1988.68  | 666.83 | 2187.55  | 668.45      | 2251.26  | 668.2  |     |      |
| 2660.58                | 670         | 2784.15  | 670         | 2865.24  | 668.7  | 3778.49  | 649.84      | 3786.21  | 649.8  |     |      |
| 4195.53                | 649.8       | 4474.53  | 648.36      | 4573.96  | 639.85 | 4772.83  | 638.83      | 5170.57  | 620.78 |     |      |
| 5321.17                | 618.96      | 5832.82  | 614.23      | 5866.6   | 614    | 7755.85  | 614         | 7777.09  | 614.17 |     |      |
| 7855.28                | 614.57      | 8186.41  | 613.6       | 8352.45  | 613.6  | 8352.45  | 609.6       | 9147.92  | 609.6  |     |      |
| 9414.37                | 607.1       | 9744.53  | 603.68      | 9823.69  | 602.64 | 9943.4   | 600.85      | 10233.01 | 600    |     |      |
| 10540                  | 600         | 10630    | 574.2       | 10720    | 574.2  | 10920    | 60012384.71 | 609.65   |        |     |      |
| 12677.65               | 609.99      | 12690.67 | 611.07      | 13068.24 | 646.55 | 13263.53 | 656.91      | 13354.67 | 658    |     |      |
| 13576                  | 65713654.12 |          | 65713797.33 |          | 663.84 | 14240    | 694         |          |        |     |      |

|           |     |        |      |       |     |
|-----------|-----|--------|------|-------|-----|
| Manning's | n   | Values | num= | 3     |     |
| Sta       | n   | Val    | Sta  | n     | Val |
| 0         | .15 | 10540  | .15  | 10920 | .15 |

|           |       |       |          |      |         |       |       |        |        |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10540 | 10920 |          | 25   | 25      | 25    |       | .1     | .3     |

| CROSS SECTION OUTPUT |             |                        |             |            |             |
|----------------------|-------------|------------------------|-------------|------------|-------------|
| Profile              |             | #Max WS                |             |            |             |
| E.G. Elev (ft)       | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)        | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)       | 775.20      | Reach Len. (ft)        | 25.00       | 25.00      | 25.00       |
| Crit W.S. (ft)       |             | Flow Area (sq ft)      | 1450083.00  | 72638.84   | 484598.80   |
| E.G. Slope (ft/ft)   | 0.000000    | Area (sq ft)           | 1450083.00  | 72638.84   | 484598.80   |
| Q Total (cfs)        | 86747.73    | Flow (cfs)             | 61731.93    | 3829.99    | 21185.80    |
| Top width (ft)       | 14240.00    | Top width (ft)         | 10540.00    | 380.00     | 3320.00     |
| Vel Total (ft/s)     | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)    | 201.00      | Hydr. Depth (ft)       | 137.58      | 191.15     | 145.96      |
| Conv. Total (cfs)    | 535870200.0 | Conv. (cfs)            | 381339100.0 | 23659170.0 | 130871900.0 |
| Length wtd. (ft)     | 25.00       | wetted Per. (ft)       | 10601.60    | 385.28     | 3404.41     |
| Min Ch El (ft)       | 574.20      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha                | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)      | 0.00        | Cum Volume (acre-ft)   | 28119.38    | 1571.48    | 10324.65    |
| C & E Loss (ft)      |             | Cum SA (acres)         | 203.44      | 8.12       | 69.70       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 1971.\*

| INPUT                  |        |          |         |          |        |          |             |          |        |
|------------------------|--------|----------|---------|----------|--------|----------|-------------|----------|--------|
| Description:           |        |          |         |          |        |          |             |          |        |
| Station Elevation Data |        |          | num= 49 |          |        |          |             |          |        |
| Sta                    | Elev   | Sta      | Elev    | Sta      | Elev   | Sta      | Elev        | Sta      | Elev   |
| 0                      | 720    | 598.3    | 681.15  | 923.59   | 676.66 | 997.17   | 675.87      | 1296.32  | 677.16 |
| 1334.08                | 676.56 | 1641.94  | 672.6   | 1994.34  | 666.91 | 2193.77  | 669.22      | 2257.67  | 669.1  |
| 2668.16                | 670    | 2792.08  | 670     | 2873.4   | 668.53 | 3789.25  | 649.92      | 3796.99  | 649.9  |
| 4207.48                | 649.9  | 4487.26  | 649.18  | 4586.98  | 639.93 | 4786.42  | 639.41      | 5185.28  | 620.39 |
| 5336.31                | 618.83 | 5849.42  | 614.26  | 5883.3   | 614    | 7777.92  | 614         | 7799.22  | 614.19 |
| 7877.64                | 614.79 | 8209.71  | 614.3   | 8376.23  | 614.3  | 8376.23  | 609.8       | 9173.96  | 609.8  |
| 9441.17                | 606.99 | 9772.26  | 603.34  | 9851.65  | 602.23 | 9971.7   | 600.42      | 10262.14 | 600    |
| 105170                 | 600    | 10665    | 574.1   | 10760    | 574.1  | 10960    | 60012442.35 |          | 609.83 |
| 12738.82               | 609.99 | 12752    | 611.21  | 13134.12 | 648.27 | 13331.76 | 658.45      | 13424    | 659    |
| 13648                  | 658.53 | 13727.06 | 658.5   | 13872    | 666.2  | 14320    | 694.5       |          |        |

|           |          |       |       |       |       |
|-----------|----------|-------|-------|-------|-------|
| Manning's | n values |       | num=  | 3     |       |
| Sta       | n Val    | Sta   | n Val | Sta   | n Val |
| 0         | .15      | 10570 | .15   | 10960 | .15   |

|           |       |       |          |      |         |       |          |        |        |
|-----------|-------|-------|----------|------|---------|-------|----------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff    | Contr. | Expan. |
|           | 10570 | 10960 |          | 25   | 25      | 25    |          | .1     | .3     |
|           |       |       |          |      |         |       | Page 338 |        |        |



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## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 25.00       | 25.00      | 25.00       |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1453657.00  | 74608.59   | 488163.20   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1453657.00  | 74608.59   | 488163.20   |
| Q Total (cfs)      | 86745.56    | Flow (cfs)             | 61624.63    | 3922.39    | 21198.54    |
| Top width (ft)     | 14320.00    | Top width (ft)         | 10570.00    | 390.00     | 3360.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.10      | Hydr. Depth (ft)       | 137.53      | 191.30     | 145.29      |
| Conv. Total (cfs)  | 537959600.0 | Conv. (cfs)            | 382170100.0 | 24325020.0 | 131464500.0 |
| Length wtd. (ft)   | 25.00       | Wetted Per. (ft)       | 10632.26    | 395.14     | 3443.94     |
| Min Ch El (ft)     | 574.10      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 27286.12    | 1529.22    | 10045.50    |
| C & E Loss (ft)    |             | Cum SA (acres)         | 197.38      | 7.90       | 67.78       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1946

## INPUT

## Description:

| Station | Elevation | Data  | num= | 30    | Sta | Elev  | Sta | Elev  | Sta | Elev |
|---------|-----------|-------|------|-------|-----|-------|-----|-------|-----|------|
| 0       | 720       | 600   | 680  | 1000  | 676 | 1300  | 678 | 2000  | 667 |      |
| 2200    | 670       | 2800  | 670  | 3800  | 650 | 4500  | 650 | 4600  | 640 |      |
| 4800    | 640       | 5200  | 620  | 5900  | 614 | 7800  | 614 | 7900  | 615 |      |
| 8400    | 615       | 8400  | 610  | 9200  | 610 | 9800  | 603 | 10000 | 600 |      |
| 10600   | 600       | 10700 | 574  | 10800 | 574 | 11000 | 600 | 12500 | 610 |      |
| 12800   | 610       | 13200 | 650  | 13400 | 660 | 13800 | 660 | 14400 | 695 |      |

## Manning's n values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| 10600          | 11000 | 4.95          | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76579.84   | 491678.60   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76579.84   | 491678.60   |
| Q Total (cfs)      | 86743.40    | Flow (cfs)             | 61520.06    | 4014.31    | 21209.03    |
| Top width (ft)     | 14400.00    | Top width (ft)         | 10600.00    | 400.00     | 3400.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.20      | Hydr. Depth (ft)       | 137.47      | 191.45     | 144.61      |
| Conv. Total (cfs)  | 540021900.0 | Conv. (cfs)            | 382993800.0 | 24991120.0 | 132037000.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.01     | 3483.50     |
| Min Ch El (ft)     | 574.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 26450.81    | 1485.84    | 9764.33     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 191.31      | 7.68       | 65.84       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1941.04\*

## INPUT

## Description:

| Station  | Elevation      | Data           | num=           | 35             | Sta            | Elev   | Sta         | Elev   | Sta | Elev |
|----------|----------------|----------------|----------------|----------------|----------------|--------|-------------|--------|-----|------|
| 0        | 720            | 600            | 680            | 1000           | 676            | 1300   | 678         | 2000   | 667 |      |
| 2200     | 670            | 2800           | 670            | 3800           | 650            | 4500   | 650         | 4600   | 640 |      |
| 4800     | 640            | 5200           | 620            | 5900           | 614            | 7800   | 614         | 7900   | 615 |      |
| 8400     | 615            | 8400           | 610            | 9200           | 610            | 9800   | 603         | 10000  | 600 |      |
| 10600    | 600            | 10700          | 573.98         | 10800          | 573.98         | 11000  | 60012500.54 | 609.96 |     |      |
| 12800.65 | 609.9813137.92 | 643.3          | 13200.8        | 649.6713332.28 | 656.4913400.87 | 659.91 |             |        |     |      |
| 13720.99 | 660.0613801.02 | 660.0414012.52 | 672.1814206.88 | 683.3714401.23 | 695            |        |             |        |     |      |

## Manning's n values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| 10600          | 11000 | 4.95          | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                   |             |            |             |
|--------------------|-------------|-------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element           | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.        | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)   | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft) | 1457216.00  | 76584.84   | 492110.70   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)      | 1457216.00  | 76584.84   | 492110.70   |
| Q Total (cfs)      | 86742.97    | Flow (cfs)        | 61500.94    | 4013.45    | 21228.59    |
| Top width (ft)     | 14401.23    | Top width (ft)    | 10600.00    | 400.00     | 3401.23     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)  | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.22      | Hydr. Depth (ft)  | 137.47      | 191.46     | 144.69      |
| Conv. Total (cfs)  | 540187100.0 | Conv. (cfs)       | 382993800.0 | 24993530.0 | 132199900.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)  | 10662.96    | 405.02     | 3484.71     |
| Min Ch El (ft)     | 573.98      | Shear (lb/sq ft)  | 0.00        | 0.00       | 0.00        |

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Alpha 1.01 Stream Power (lb/ft s) 0.00 0.00 0.00  
 Frctn Loss (ft) 0.00 Cum Volume (acre-ft) 26285.22 1477.13 9708.43  
 C & E Loss (ft) Cum SA (acres) 190.10 7.63 65.46

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1936.09\*

## INPUT

## Description:

| Station  | Elev           | Sta   | Elev           | Sta     | Elev           | Sta   | Elev           | Sta    | Elev |
|----------|----------------|-------|----------------|---------|----------------|-------|----------------|--------|------|
| 0        | 720            | 600   | 680            | 1000    | 676            | 1300  | 678            | 2000   | 667  |
| 2200     | 670            | 2800  | 670            | 3800    | 650            | 4500  | 650            | 4600   | 640  |
| 4800     | 640            | 5200  | 620            | 5900    | 614            | 7800  | 614            | 7900   | 615  |
| 8400     | 615            | 8400  | 610            | 9200    | 610            | 9800  | 603            | 10000  | 600  |
| 10600    | 600            | 10700 | 573.95         | 10800   | 573.95         | 11000 | 60012501.09    | 609.93 |      |
| 12801.31 | 609.9613138.69 |       | 642.88         | 13201.6 | 649.3313333.12 |       | 656.4113401.74 | 659.82 |      |
| 13721.98 | 660.1213802.03 |       | 660.0914013.62 |         | 672.0314208.04 |       | 683.0814402.47 | 695    |      |

| Manning's n | Values | num=  | 3     |
|-------------|--------|-------|-------|
| Sta         | n Val  | Sta   | n Val |
| 0           | .15    | 10600 | .15   |
|             |        | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76592.33   | 492533.20   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76592.33   | 492533.20   |
| Q Total (cfs)      | 86742.54    | Flow (cfs)             | 61482.19    | 4012.80    | 21247.54    |
| Top width (ft)     | 14402.47    | Top width (ft)         | 10600.00    | 400.00     | 3402.47     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.25      | Hydr. Depth (ft)       | 137.47      | 191.48     | 144.76      |
| Conv. Total (cfs)  | 540349200.0 | Conv. (cfs)            | 382993800.0 | 24997140.0 | 132358300.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.03     | 3485.93     |
| Min Ch El (ft)     | 573.95      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 26119.63    | 1468.43    | 9652.48     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 188.90      | 7.59       | 65.07       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1931.14\*

## INPUT

## Description:

| Station  | Elev           | Sta   | Elev           | Sta     | Elev           | Sta   | Elev           | Sta    | Elev |
|----------|----------------|-------|----------------|---------|----------------|-------|----------------|--------|------|
| 0        | 720            | 600   | 680            | 1000    | 676            | 1300  | 678            | 2000   | 667  |
| 2200     | 670            | 2800  | 670            | 3800    | 650            | 4500  | 650            | 4600   | 640  |
| 4800     | 640            | 5200  | 620            | 5900    | 614            | 7800  | 614            | 7900   | 615  |
| 8400     | 615            | 8400  | 610            | 9200    | 610            | 9800  | 603            | 10000  | 600  |
| 10600    | 600            | 10700 | 573.93         | 10800   | 573.93         | 11000 | 60012501.63    | 609.89 |      |
| 12801.96 | 609.9413139.47 |       | 642.47         | 13202.4 | 64913333.97    |       | 656.3313402.61 | 659.73 |      |
| 13722.96 | 660.1913803.05 |       | 660.1314014.71 |         | 671.8814209.21 |       | 682.79 14403.7 | 695    |      |

| Manning's n | Values | num=  | 3     |
|-------------|--------|-------|-------|
| Sta         | n Val  | Sta   | n Val |
| 0           | .15    | 10600 | .15   |
|             |        | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76597.34   | 492960.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76597.34   | 492960.80   |
| Q Total (cfs)      | 86742.11    | Flow (cfs)             | 61463.32    | 4011.96    | 21266.83    |
| Top width (ft)     | 14403.70    | Top width (ft)         | 10600.00    | 400.00     | 3403.70     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.27      | Hydr. Depth (ft)       | 137.47      | 191.49     | 144.83      |
| Conv. Total (cfs)  | 540512400.0 | Conv. (cfs)            | 382993800.0 | 24999550.0 | 132519100.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.03     | 3487.14     |
| Min Ch El (ft)     | 573.93      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 25954.04    | 1459.73    | 9596.49     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 187.69      | 7.54       | 64.68       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1926.19\*

## INPUT

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Description:  
 Station Elevation Data num= 35  

| Sta      | Elev           | Sta    | Elev    | Sta            | Elev           | Sta    | Elev        | Sta    | Elev |
|----------|----------------|--------|---------|----------------|----------------|--------|-------------|--------|------|
| 0        | 720            | 600    | 680     | 1000           | 676            | 1300   | 678         | 2000   | 667  |
| 2200     | 670            | 2800   | 670     | 3800           | 650            | 4500   | 650         | 4600   | 640  |
| 4800     | 640            | 5200   | 620     | 5900           | 614            | 7800   | 614         | 7900   | 615  |
| 8400     | 615            | 8400   | 610     | 9200           | 610            | 9800   | 603         | 10000  | 600  |
| 10600    | 600            | 10700  | 573.9   | 10800          | 573.9          | 11000  | 60012502.18 | 609.85 |      |
| 12802.61 | 609.9213140.25 | 642.05 | 13203.2 | 648.6613334.82 | 656.2513403.49 | 659.64 |             |        |      |
| 13723.95 | 660.2513804.07 | 660.18 | 14015.8 | 671.7214210.37 | 682.514404.94  | 695    |             |        |      |

  
 Manning's n values num= 3  

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

  
 Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  

| Left  | Right | Left | Channel | Right | Coeff | Contr. | Expan. |
|-------|-------|------|---------|-------|-------|--------|--------|
| 10600 | 11000 | 4.95 | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76604.83   | 493394.90   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76604.83   | 493394.90   |
| Q Total (cfs)      | 86741.68    | Flow (cfs)             | 61444.02    | 4011.28    | 21286.39    |
| Top width (ft)     | 14404.94    | Top width (ft)         | 10600.00    | 400.00     | 3404.94     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.30      | Hydr. Depth (ft)       | 137.47      | 191.51     | 144.91      |
| Conv. Total (cfs)  | 540679600.0 | Conv. (cfs)            | 382993800.0 | 25003150.0 | 132682700.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.05     | 3488.36     |
| Min Ch El (ft)     | 573.90      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum volume (acre-ft)   | 25788.44    | 1451.02    | 9540.45     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 186.49      | 7.49       | 64.30       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1921.24\*

## INPUT

Description:  
 Station Elevation Data num= 35  

| Sta      | Elev           | Sta            | Elev           | Sta            | Elev           | Sta   | Elev        | Sta    | Elev |
|----------|----------------|----------------|----------------|----------------|----------------|-------|-------------|--------|------|
| 0        | 720            | 600            | 680            | 1000           | 676            | 1300  | 678         | 2000   | 667  |
| 2200     | 670            | 2800           | 670            | 3800           | 650            | 4500  | 650         | 4600   | 640  |
| 4800     | 640            | 5200           | 620            | 5900           | 614            | 7800  | 614         | 7900   | 615  |
| 8400     | 615            | 8400           | 610            | 9200           | 610            | 9800  | 603         | 10000  | 600  |
| 10600    | 600            | 10700          | 573.88         | 10800          | 573.88         | 11000 | 60012502.72 | 609.82 |      |
| 12803.27 | 609.913141.02  | 641.6313203.99 | 648.3313335.66 | 656.1713404.36 | 659.55         |       |             |        |      |
| 13724.94 | 660.3113805.08 | 660.22         | 14016.9        | 671.5714211.53 | 682.2114406.17 | 695   |             |        |      |

  
 Manning's n values num= 3  

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

  
 Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  

| Left  | Right | Left | Channel | Right | Coeff | Contr. | Expan. |
|-------|-------|------|---------|-------|-------|--------|--------|
| 10600 | 11000 | 4.95 | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76609.84   | 493817.40   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76609.84   | 493817.40   |
| Q Total (cfs)      | 86741.25    | Flow (cfs)             | 61425.42    | 4010.45    | 21305.38    |
| Top width (ft)     | 14406.17    | Top width (ft)         | 10600.00    | 400.00     | 3406.17     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.32      | Hydr. Depth (ft)       | 137.47      | 191.52     | 144.98      |
| Conv. Total (cfs)  | 540840600.0 | Conv. (cfs)            | 382993800.0 | 25005560.0 | 132841200.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.05     | 3489.58     |
| Min Ch El (ft)     | 573.88      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum volume (acre-ft)   | 25622.85    | 1442.32    | 9484.36     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 185.28      | 7.45       | 63.91       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1916.29\*

## INPUT

Description:  
 Station Elevation Data num= 35  

| Sta      | Elev   | Sta     | Elev           | Sta          | Elev           | Sta            | Elev        | Sta    | Elev |
|----------|--------|---------|----------------|--------------|----------------|----------------|-------------|--------|------|
| 0        | 720    | 600     | 680            | 1000         | 676            | 1300           | 678         | 2000   | 667  |
| 2200     | 670    | 2800    | 670            | 3800         | 650            | 4500           | 650         | 4600   | 640  |
| 4800     | 640    | 5200    | 620            | 5900         | 614            | 7800           | 614         | 7900   | 615  |
| 8400     | 615    | 8400    | 610            | 9200         | 610            | 9800           | 603         | 10000  | 600  |
| 10600    | 600    | 10700   | 573.85         | 10800        | 573.85         | 11000          | 60012503.27 | 609.78 |      |
| 12803.92 | 609.88 | 13141.8 | 641.2213204.79 | 648.13336.51 | 656.0813405.23 | 659.46         |             |        |      |
| 13725.93 | 660.37 | 13806.1 | 660.2714017.99 | 671.42       | 14212.7        | 681.9114407.41 | 695         |        |      |

  
 Manning's n values num= 3  

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |



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| Bank Sta:                            | Left        | Right | Lengths:               | Left Channel | Right       | Coeff      | Contr.      | Expan. |
|--------------------------------------|-------------|-------|------------------------|--------------|-------------|------------|-------------|--------|
|                                      | 10600       | 11000 |                        | 4.95         | 4.95        |            | .1          | .3     |
| CROSS SECTION OUTPUT Profile #Max WS |             |       |                        |              |             |            |             |        |
| E.G. Elev (ft)                       | 775.20      |       | Element                |              | Left OB     | Channel    | Right OB    |        |
| Vel Head (ft)                        | 0.00        |       | Wt. n-Val.             |              | 0.150       | 0.150      | 0.150       |        |
| W.S. Elev (ft)                       | 775.20      |       | Reach Len. (ft)        |              | 4.95        | 4.95       | 4.95        |        |
| Crit W.S. (ft)                       |             |       | Flow Area (sq ft)      |              | 1457216.00  | 76617.34   | 494249.90   |        |
| E.G. Slope (ft/ft)                   | 0.000000    |       | Area (sq ft)           |              | 1457216.00  | 76617.34   | 494249.90   |        |
| Q Total (cfs)                        | 86740.83    |       | Flow (cfs)             |              | 61406.23    | 4009.78    | 21324.82    |        |
| Top width (ft)                       | 14407.41    |       | Top width (ft)         |              | 10600.00    | 400.00     | 3407.41     |        |
| Vel Total (ft/s)                     | 0.04        |       | Avg. Vel. (ft/s)       |              | 0.04        | 0.05       | 0.04        |        |
| Max Chl Dpth (ft)                    | 201.35      |       | Hydr. Depth (ft)       |              | 137.47      | 191.54     | 145.05      |        |
| Conv. Total (cfs)                    | 541006900.0 |       | Conv. (cfs)            |              | 382993800.0 | 25009170.0 | 133004000.0 |        |
| Length wtd. (ft)                     | 4.95        |       | Wetted Per. (ft)       |              | 10662.96    | 405.06     | 3490.80     |        |
| Min Ch El (ft)                       | 573.85      |       | Shear (lb/sq ft)       |              | 0.00        | 0.00       | 0.00        |        |
| Alpha                                | 1.01        |       | Stream Power (lb/ft s) |              | 0.00        | 0.00       | 0.00        |        |
| Frctn Loss (ft)                      | 0.00        |       | Cum Volume (acre-ft)   |              | 25457.26    | 1433.61    | 9428.22     |        |
| C & E Loss (ft)                      |             |       | Cum SA (acres)         |              | 184.08      | 7.40       | 63.52       |        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1911.34\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35             |        |       |                |        |      |
|----------|----------------|-------|----------------|----------------|--------|-------|----------------|--------|------|
| Sta      | Elev           | Sta   | Elev           | Sta            | Elev   | Sta   | Elev           | Sta    | Elev |
| 0        | 720            | 600   | 680            | 1000           | 676    | 1300  | 678            | 2000   | 667  |
| 2200     | 670            | 2800  | 670            | 3800           | 650    | 4500  | 650            | 4600   | 640  |
| 4800     | 640            | 5200  | 620            | 5900           | 614    | 7800  | 614            | 7900   | 615  |
| 8400     | 615            | 8400  | 610            | 9200           | 610    | 9800  | 603            | 10000  | 600  |
| 10600    | 600            | 10700 | 573.83         | 10800          | 573.83 | 11000 | 60012503.81    | 609.74 |      |
| 12804.58 | 609.8613142.57 |       | 640.813205.59  | 647.6613337.35 |        |       | 656 13406.1    | 659.36 |      |
| 13726.91 | 660.4313807.12 |       | 660.3114019.08 | 671.2714213.86 |        |       | 681.6214408.64 | 695    |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |  |                        |  |             |            |             |  |
|--------------------|-------------|--|------------------------|--|-------------|------------|-------------|--|
| E.G. Elev (ft)     | 775.20      |  | Element                |  | Left OB     | Channel    | Right OB    |  |
| Vel Head (ft)      | 0.00        |  | Wt. n-Val.             |  | 0.150       | 0.150      | 0.150       |  |
| W.S. Elev (ft)     | 775.20      |  | Reach Len. (ft)        |  | 4.95        | 4.95       | 4.95        |  |
| Crit W.S. (ft)     |             |  | Flow Area (sq ft)      |  | 1457216.00  | 76622.33   | 494684.90   |  |
| E.G. Slope (ft/ft) | 0.000000    |  | Area (sq ft)           |  | 1457216.00  | 76622.33   | 494684.90   |  |
| Q Total (cfs)      | 86740.39    |  | Flow (cfs)             |  | 61387.02    | 4008.91    | 21344.47    |  |
| Top width (ft)     | 14408.64    |  | Top width (ft)         |  | 10600.00    | 400.00     | 3408.64     |  |
| Vel Total (ft/s)   | 0.04        |  | Avg. Vel. (ft/s)       |  | 0.04        | 0.05       | 0.04        |  |
| Max Chl Dpth (ft)  | 201.37      |  | Hydr. Depth (ft)       |  | 137.47      | 191.56     | 145.13      |  |
| Conv. Total (cfs)  | 541173500.0 |  | Conv. (cfs)            |  | 382993800.0 | 25011570.0 | 133168200.0 |  |
| Length wtd. (ft)   | 4.95        |  | Wetted Per. (ft)       |  | 10662.96    | 405.07     | 3492.02     |  |
| Min Ch El (ft)     | 573.83      |  | Shear (lb/sq ft)       |  | 0.00        | 0.00       | 0.00        |  |
| Alpha              | 1.01        |  | Stream Power (lb/ft s) |  | 0.00        | 0.00       | 0.00        |  |
| Frctn Loss (ft)    | 0.00        |  | Cum Volume (acre-ft)   |  | 25291.67    | 1424.90    | 9372.03     |  |
| C & E Loss (ft)    |             |  | Cum SA (acres)         |  | 182.87      | 7.36       | 63.14       |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1906.39\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35             |       |       |                |        |      |
|----------|----------------|-------|----------------|----------------|-------|-------|----------------|--------|------|
| Sta      | Elev           | Sta   | Elev           | Sta            | Elev  | Sta   | Elev           | Sta    | Elev |
| 0        | 720            | 600   | 680            | 1000           | 676   | 1300  | 678            | 2000   | 667  |
| 2200     | 670            | 2800  | 670            | 3800           | 650   | 4500  | 650            | 4600   | 640  |
| 4800     | 640            | 5200  | 620            | 5900           | 614   | 7800  | 614            | 7900   | 615  |
| 8400     | 615            | 8400  | 610            | 9200           | 610   | 9800  | 603            | 10000  | 600  |
| 10600    | 600            | 10700 | 573.8          | 10800          | 573.8 | 11000 | 60012504.36    | 609.71 |      |
| 12805.23 | 609.8413143.35 |       | 640.3813206.39 | 647.33 13338.2 |       |       | 655.9213406.97 | 659.27 |      |
| 13727.9  | 660.4913808.13 |       | 660.3614020.18 | 671.1214215.03 |       |       | 681.3314409.88 | 695    |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |          |  |                   |  |            |          |           |  |
|--------------------|----------|--|-------------------|--|------------|----------|-----------|--|
| E.G. Elev (ft)     | 775.20   |  | Element           |  | Left OB    | Channel  | Right OB  |  |
| Vel Head (ft)      | 0.00     |  | Wt. n-Val.        |  | 0.150      | 0.150    | 0.150     |  |
| W.S. Elev (ft)     | 775.20   |  | Reach Len. (ft)   |  | 4.95       | 4.95     | 4.95      |  |
| Crit W.S. (ft)     |          |  | Flow Area (sq ft) |  | 1457216.00 | 76629.84 | 495107.80 |  |
| E.G. Slope (ft/ft) | 0.000000 |  | Area (sq ft)      |  | 1457216.00 | 76629.84 | 495107.80 |  |
| Q Total (cfs)      | 86739.97 |  | Flow (cfs)        |  | 61368.34   | 4008.26  | 21363.36  |  |
| Top width (ft)     | 14409.88 |  | Top width (ft)    |  | 10600.00   | 400.00   | 3409.88   |  |
| Vel Total (ft/s)   | 0.04     |  | Avg. Vel. (ft/s)  |  | 0.04       | 0.05     | 0.04      |  |

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|                   |             |                        |             |            |             |
|-------------------|-------------|------------------------|-------------|------------|-------------|
| Max Chl Dpth (ft) | 201.40      | Hydr. Depth (ft)       | 137.47      | 191.57     | 145.20      |
| Conv. Total (cfs) | 541335600.0 | Conv. (cfs)            | 382993800.0 | 25015180.0 | 133326600.0 |
| Length wtd. (ft)  | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.08     | 3493.25     |
| Min Ch El (ft)    | 573.80      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha             | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)   | 0.00        | Cum Volume (acre-ft)   | 25126.08    | 1416.20    | 9315.79     |
| C & E Loss (ft)   |             | Cum SA (acres)         | 181.67      | 7.31       | 62.75       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1901.44\*

## INPUT

## Description:

| Station  | Elev   | Data     | num=   | 35       | Sta    | Elev     | Sta    | Elev     | Sta    | Elev |
|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|------|
| 0        | 720    | 600      | 680    | 1000     | 676    | 1300     | 678    | 2000     | 667    |      |
| 2200     | 670    | 2800     | 670    | 3800     | 650    | 4500     | 650    | 4600     | 640    |      |
| 4800     | 640    | 5200     | 620    | 5900     | 614    | 7800     | 614    | 7900     | 615    |      |
| 8400     | 615    | 8400     | 610    | 9200     | 610    | 9800     | 603    | 10000    | 600    |      |
| 10600    | 600    | 10700    | 573.78 | 10800    | 573.78 | 11000    | 600    | 12504.9  | 609.67 |      |
| 12805.88 | 609.82 | 13144.13 | 639.97 | 13207.19 | 646.99 | 13339.05 | 655.84 | 13407.84 | 659.18 |      |
| 13728.89 | 660.56 | 13809.15 | 660.41 | 14021.27 | 670.96 | 14216.19 | 681.04 | 14411.11 | 695    |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
| 10600     | 11000 | 4.95  | 4.95     | 4.95         |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76634.83   | 495539.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76634.83   | 495539.30   |
| Q Total (cfs)      | 86739.54    | Flow (cfs)             | 61349.34    | 4007.41    | 21382.79    |
| Top width (ft)     | 14411.11    | Top width (ft)         | 10600.00    | 400.00     | 3411.11     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.42      | Hydr. Depth (ft)       | 137.47      | 191.59     | 145.27      |
| Conv. Total (cfs)  | 541500500.0 | Conv. (cfs)            | 382993800.0 | 25017580.0 | 133489200.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.09     | 3494.48     |
| Min Ch El (ft)     | 573.78      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 24960.48    | 1407.49    | 9259.50     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 180.46      | 7.27       | 62.36       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1896.49\*

## INPUT

## Description:

| Station  | Elev   | Data     | num=   | 35       | Sta    | Elev     | Sta    | Elev     | Sta    | Elev |
|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|------|
| 0        | 720    | 600      | 680    | 1000     | 676    | 1300     | 678    | 2000     | 667    |      |
| 2200     | 670    | 2800     | 670    | 3800     | 650    | 4500     | 650    | 4600     | 640    |      |
| 4800     | 640    | 5200     | 620    | 5900     | 614    | 7800     | 614    | 7900     | 615    |      |
| 8400     | 615    | 8400     | 610    | 9200     | 610    | 9800     | 603    | 10000    | 600    |      |
| 10600    | 600    | 10700    | 573.75 | 10800    | 573.75 | 11000    | 600    | 12505.45 | 609.63 |      |
| 12806.54 | 609.81 | 13144.9  | 639.55 | 13207.99 | 646.66 | 13339.89 | 655.76 | 13408.71 | 659.09 |      |
| 13729.88 | 660.62 | 13810.17 | 660.45 | 14022.36 | 670.81 | 14217.35 | 680.74 | 14412.35 | 695    |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
| 10600     | 11000 | 4.95  | 4.95     | 4.95         |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76642.34   | 495970.10   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76642.34   | 495970.10   |
| Q Total (cfs)      | 86739.11    | Flow (cfs)             | 61330.28    | 4006.74    | 21402.09    |
| Top width (ft)     | 14412.35    | Top width (ft)         | 10600.00    | 400.00     | 3412.35     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.45      | Hydr. Depth (ft)       | 137.47      | 191.61     | 145.35      |
| Conv. Total (cfs)  | 541666200.0 | Conv. (cfs)            | 382993800.0 | 25021190.0 | 133651200.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.10     | 3495.71     |
| Min Ch El (ft)     | 573.75      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 24794.89    | 1398.78    | 9203.16     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 179.26      | 7.22       | 61.97       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1891.54\* TXU\_Rev1.rep

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35    | Sta            | Elev  | Sta            | Elev  | Sta   | Elev | Sta | Elev |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|-------|------|-----|------|
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000  | 667   |      |     |      |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600  | 640   |      |     |      |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900  | 615   |      |     |      |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000 | 600   |      |     |      |
| 10600    | 600            | 10700 | 573.73         | 10800 | 573.73         | 11000 | 60012505.99    |       | 609.6 |      |     |      |
| 12807.19 | 609.7913145.68 |       | 639.1413208.79 |       | 646.3313340.74 |       | 655.6813409.59 |       | 659   |      |     |      |
| 13730.86 | 660.6813811.18 |       | 660.4914023.46 |       | 670.6614218.52 |       | 680.4514413.58 |       | 695   |      |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| 10600     | 11000 | 4.95  | 4.95     | 4.95 |         |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76647.34   | 496392.20   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76647.34   | 496392.20   |
| Q Total (cfs)      | 86738.68    | Flow (cfs)             | 61311.79    | 4005.92    | 21420.98    |
| Top width (ft)     | 14413.58    | Top width (ft)         | 10600.00    | 400.00     | 3413.58     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.47      | Hydr. Depth (ft)       | 137.47      | 191.62     | 145.42      |
| Conv. Total (cfs)  | 541826900.0 | Conv. (cfs)            | 382993800.0 | 25023600.0 | 133809500.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.11     | 3496.94     |
| Min Ch El (ft)     | 573.73      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 24629.30    | 1390.07    | 9146.78     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 178.06      | 7.18       | 61.59       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1886.59\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35    | Sta            | Elev  | Sta            | Elev  | Sta    | Elev | Sta | Elev |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|--------|------|-----|------|
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000  | 667    |      |     |      |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600  | 640    |      |     |      |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900  | 615    |      |     |      |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000 | 600    |      |     |      |
| 10600    | 600            | 10700 | 573.7          | 10800 | 573.7          | 11000 | 60012506.54    |       | 609.56 |      |     |      |
| 12807.84 | 609.7713146.46 |       | 638.7213209.59 |       | 645.9913341.59 |       | 655.613410.46  |       | 658.91 |      |     |      |
| 13731.85 | 660.74 13812.2 |       | 660.5414024.55 |       | 670.5114219.68 |       | 680.1614414.81 |       | 695    |      |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| 10600     | 11000 | 4.95  | 4.95     | 4.95 |         |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76654.83   | 496824.70   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76654.83   | 496824.70   |
| Q Total (cfs)      | 86738.26    | Flow (cfs)             | 61292.63    | 4005.24    | 21440.38    |
| Top width (ft)     | 14414.81    | Top width (ft)         | 10600.00    | 400.00     | 3414.81     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.50      | Hydr. Depth (ft)       | 137.47      | 191.64     | 145.49      |
| Conv. Total (cfs)  | 541993500.0 | Conv. (cfs)            | 382993800.0 | 25027200.0 | 133972600.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.12     | 3498.16     |
| Min Ch El (ft)     | 573.70      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 24463.71    | 1381.36    | 9090.35     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 176.85      | 7.13       | 61.20       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1881.64\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35    | Sta            | Elev  | Sta            | Elev  | Sta    | Elev | Sta | Elev |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|--------|------|-----|------|
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000  | 667    |      |     |      |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600  | 640    |      |     |      |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900  | 615    |      |     |      |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000 | 600    |      |     |      |
| 10600    | 600            | 10700 | 573.68         | 10800 | 573.68         | 11000 | 60012507.08    |       | 609.52 |      |     |      |
| 12808.5  | 609.7513147.23 |       | 638.313210.38  |       | 645.6613342.43 |       | 655.5213411.33 |       | 658.82 |      |     |      |
| 13732.84 | 660.813813.22  |       | 660.5814025.64 |       | 670.3514220.85 |       | 679.8714416.05 |       | 695    |      |     |      |



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Manning's n Values num= 3  
Sta n Val Sta n Val  
0 .15 10600 .15 11000 .15

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
10600 11000 4.95 4.95 4.95 .1 .3

CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76659.84   | 497260.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76659.84   | 497260.80   |
| Q Total (cfs)      | 86737.82    | Flow (cfs)             | 61273.48    | 4004.38    | 21459.97    |
| Top width (ft)     | 14416.05    | Top width (ft)         | 10600.00    | 400.00     | 3416.05     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.52      | Hydr. Depth (ft)       | 137.47      | 191.65     | 145.57      |
| Conv. Total (cfs)  | 542160300.0 | Conv. (cfs)            | 382993800.0 | 25029610.0 | 134136900.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.13     | 3499.40     |
| Min Ch El (ft)     | 573.68      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 24298.12    | 1372.65    | 9033.87     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 175.65      | 7.09       | 60.81       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1876.69\*

INPUT

Description:

| Station Elevation Data |                | num=  | 35             | Sta   |                | Elev  | Sta            | Elev   | Sta  | Elev |
|------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|--------|------|------|
| Sta                    | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev           | Sta    | Elev | Sta  |
| 0                      | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000   | 667  |      |
| 2200                   | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600   | 640  |      |
| 4800                   | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900   | 615  |      |
| 8400                   | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000  | 600  |      |
| 10600                  | 600            | 10700 | 573.65         | 10800 | 573.65         | 11000 | 60012507.62    | 609.48 |      |      |
| 12809.15               | 609.7313148.01 |       | 637.8913211.18 |       | 645.3213343.28 |       | 655.44 13412.2 | 658.73 |      |      |
| 13733.83               | 660.8613814.23 |       | 660.6314026.74 |       | 670.214222.01  |       | 679.5814417.28 | 695    |      |      |

Manning's n Values num= 3  
Sta n Val Sta n Val  
0 .15 10600 .15 11000 .15

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
10600 11000 4.95 4.95 4.95 .1 .3

CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76667.33   | 497691.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76667.33   | 497691.80   |
| Q Total (cfs)      | 86737.40    | Flow (cfs)             | 61254.43    | 4003.71    | 21479.26    |
| Top width (ft)     | 14417.28    | Top width (ft)         | 10600.00    | 400.00     | 3417.28     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.55      | Hydr. Depth (ft)       | 137.47      | 191.67     | 145.64      |
| Conv. Total (cfs)  | 542326200.0 | Conv. (cfs)            | 382993800.0 | 25033210.0 | 134299200.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.14     | 3500.63     |
| Min Ch El (ft)     | 573.65      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 24132.53    | 1363.94    | 8977.33     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 174.44      | 7.04       | 60.42       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1871.74\*

INPUT

Description:

| Station Elevation Data |                | num=  | 35             | Sta   |                | Elev  | Sta            | Elev   | Sta  | Elev |
|------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|--------|------|------|
| Sta                    | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev           | Sta    | Elev | Sta  |
| 0                      | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000   | 667  |      |
| 2200                   | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600   | 640  |      |
| 4800                   | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900   | 615  |      |
| 8400                   | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000  | 600  |      |
| 10600                  | 600            | 10700 | 573.63         | 10800 | 573.63         | 11000 | 60012508.17    | 609.45 |      |      |
| 12809.8                | 609.7113148.78 |       | 637.4713211.98 |       | 644.9913344.13 |       | 655.3513413.07 | 658.64 |      |      |
| 13734.81               | 660.9313815.25 |       | 660.6714027.83 |       | 670.0514223.17 |       | 679.2814418.52 | 695    |      |      |

Manning's n Values num= 3  
Sta n Val Sta n Val  
0 .15 10600 .15 11000 .15

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
10600 11000 4.95 4.95 4.95 .1 .3

CROSS SECTION OUTPUT Profile #Max WS

|                |        |                   |            |          |           |
|----------------|--------|-------------------|------------|----------|-----------|
| E.G. Elev (ft) | 775.20 | Element           | Left OB    | Channel  | Right OB  |
| Vel Head (ft)  | 0.00   | wt. n-Val.        | 0.150      | 0.150    | 0.150     |
| W.S. Elev (ft) | 775.20 | Reach Len. (ft)   | 4.95       | 4.95     | 4.95      |
| Crit W.S. (ft) |        | Flow Area (sq ft) | 1457216.00 | 76672.34 | 498118.00 |

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|                    |            | TXU_Rev1.rep           |             |            |             |
|--------------------|------------|------------------------|-------------|------------|-------------|
| E.G. Slope (ft/ft) | 0.000000   | Area (sq ft)           | 1457216.00  | 76672.34   | 498118.00   |
| Q Total (cfs)      | 86736.97   | Flow (cfs)             | 61235.81    | 4002.88    | 21498.29    |
| Top Width (ft)     | 14418.52   | Top width (ft)         | 10600.00    | 400.00     | 3418.52     |
| Vel Total (ft/s)   | 0.04       | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.57     | Hydr. Depth (ft)       | 137.47      | 191.68     | 145.71      |
| Conv. Total (cfs)  | 54248400.0 | Conv. (cfs)            | 382993800.0 | 25035610.0 | 134459100.0 |
| Length Wtd. (ft)   | 4.95       | Wetted Per. (ft)       | 10662.96    | 405.15     | 3501.88     |
| Min Ch El (ft)     | 573.63     | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01       | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00       | Cum Volume (acre-ft)   | 23966.93    | 1355.22    | 8920.75     |
| C & E Loss (ft)    |            | Cum SA (acres)         | 173.24      | 6.99       | 60.03       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 1866.79\*

## INPUT

## Description:

| Station Elevation Data |                | num= 35 |                | Sta Elev |                | Sta Elev |                | Sta Elev |        |
|------------------------|----------------|---------|----------------|----------|----------------|----------|----------------|----------|--------|
| Sta                    | Elev           | Sta     | Elev           | Sta      | Elev           | Sta      | Elev           | Sta      | Elev   |
| 0                      | 720            | 600     | 680            | 1000     | 676            | 1300     | 678            | 2000     | 667    |
| 2200                   | 670            | 2800    | 670            | 3800     | 650            | 4500     | 650            | 4600     | 640    |
| 4800                   | 640            | 5200    | 620            | 5900     | 614            | 7800     | 614            | 7900     | 615    |
| 8400                   | 615            | 8400    | 610            | 9200     | 610            | 9800     | 603            | 10000    | 600    |
| 10600                  | 600            | 10700   | 573.6          | 10800    | 573.6          | 11000    | 60012508.71    |          | 609.41 |
| 12810.46               | 609.6913149.56 |         | 637.0513212.78 |          | 644.6613344.97 |          | 655.2713413.94 |          | 658.55 |
| 13735.8                | 660.9913816.27 |         | 660.7214028.92 |          | 669.914224.34  |          | 678.9914419.75 |          | 695    |

## Manning's n Values

| num= 3 |       | Sta n Val |       | Sta n Val |       |
|--------|-------|-----------|-------|-----------|-------|
| Sta    | n Val | Sta       | n Val | Sta       | n Val |
| 0      | .15   | 10600     | .15   | 11000     | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     |            | 775.20 |  | Element                |             | Left OB    |             | Channel |  | Right OB |  |
|--------------------|------------|--------|--|------------------------|-------------|------------|-------------|---------|--|----------|--|
| Vel Head (ft)      | 0.00       |        |  | wt. n-Val.             | 0.150       | 0.150      | 0.150       |         |  |          |  |
| W.S. Elev (ft)     | 775.20     |        |  | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |         |  |          |  |
| Crit W.S. (ft)     |            |        |  | Flow Area (sq ft)      | 1457216.00  | 76679.84   | 498550.50   |         |  |          |  |
| E.G. Slope (ft/ft) | 0.000000   |        |  | Area (sq ft)           | 1457216.00  | 76679.84   | 498550.50   |         |  |          |  |
| Q Total (cfs)      | 86736.54   |        |  | Flow (cfs)             | 61216.70    | 4002.20    | 21517.64    |         |  |          |  |
| Top Width (ft)     | 14419.75   |        |  | Top width (ft)         | 10600.00    | 400.00     | 3419.75     |         |  |          |  |
| Vel Total (ft/s)   | 0.04       |        |  | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |         |  |          |  |
| Max Chl Dpth (ft)  | 201.60     |        |  | Hydr. Depth (ft)       | 137.47      | 191.70     | 145.79      |         |  |          |  |
| Conv. Total (cfs)  | 54265100.0 |        |  | Conv. (cfs)            | 382993800.0 | 25039220.0 | 134622100.0 |         |  |          |  |
| Length Wtd. (ft)   | 4.95       |        |  | Wetted Per. (ft)       | 10662.96    | 405.16     | 3503.11     |         |  |          |  |
| Min Ch El (ft)     | 573.60     |        |  | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |         |  |          |  |
| Alpha              | 1.01       |        |  | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |         |  |          |  |
| Frctn Loss (ft)    | 0.00       |        |  | Cum Volume (acre-ft)   | 23801.34    | 1346.51    | 8864.13     |         |  |          |  |
| C & E Loss (ft)    |            |        |  | Cum SA (acres)         | 172.03      | 6.95       | 59.64       |         |  |          |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 1861.83\*

## INPUT

## Description:

| Station Elevation Data |                | num= 35 |                | Sta Elev |                | Sta Elev |                | Sta Elev |        |
|------------------------|----------------|---------|----------------|----------|----------------|----------|----------------|----------|--------|
| Sta                    | Elev           | Sta     | Elev           | Sta      | Elev           | Sta      | Elev           | Sta      | Elev   |
| 0                      | 720            | 600     | 680            | 1000     | 676            | 1300     | 678            | 2000     | 667    |
| 2200                   | 670            | 2800    | 670            | 3800     | 650            | 4500     | 650            | 4600     | 640    |
| 4800                   | 640            | 5200    | 620            | 5900     | 614            | 7800     | 614            | 7900     | 615    |
| 8400                   | 615            | 8400    | 610            | 9200     | 610            | 9800     | 603            | 10000    | 600    |
| 10600                  | 600            | 10700   | 573.58         | 10800    | 573.58         | 11000    | 60012509.26    |          | 609.37 |
| 12811.11               | 609.6713150.33 |         | 636.6413213.58 |          | 644.3213345.82 |          | 655.1913414.81 |          | 658.46 |
| 13736.79               | 661.0513817.28 |         | 660.7614030.02 |          | 669.74 14225.5 |          | 678.714420.99  |          | 695    |

## Manning's n Values

| num= 3 |       | Sta n Val |       | Sta n Val |       |
|--------|-------|-----------|-------|-----------|-------|
| Sta    | n Val | Sta       | n Val | Sta       | n Val |
| 0      | .15   | 10600     | .15   | 11000     | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     |             | 775.20 |  | Element                |             | Left OB    |             | Channel |  | Right OB |  |
|--------------------|-------------|--------|--|------------------------|-------------|------------|-------------|---------|--|----------|--|
| Vel Head (ft)      | 0.00        |        |  | wt. n-Val.             | 0.150       | 0.150      | 0.150       |         |  |          |  |
| W.S. Elev (ft)     | 775.20      |        |  | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |         |  |          |  |
| Crit W.S. (ft)     |             |        |  | Flow Area (sq ft)      | 1457216.00  | 76684.83   | 498986.30   |         |  |          |  |
| E.G. Slope (ft/ft) | 0.000000    |        |  | Area (sq ft)           | 1457216.00  | 76684.83   | 498986.30   |         |  |          |  |
| Q Total (cfs)      | 86736.11    |        |  | Flow (cfs)             | 61197.61    | 4001.34    | 21537.16    |         |  |          |  |
| Top Width (ft)     | 14420.99    |        |  | Top width (ft)         | 10600.00    | 400.00     | 3420.99     |         |  |          |  |
| Vel Total (ft/s)   | 0.04        |        |  | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |         |  |          |  |
| Max Chl Dpth (ft)  | 201.62      |        |  | Hydr. Depth (ft)       | 137.47      | 191.71     | 145.86      |         |  |          |  |
| Conv. Total (cfs)  | 542821600.0 |        |  | Conv. (cfs)            | 382993800.0 | 25041620.0 | 134786300.0 |         |  |          |  |
| Length Wtd. (ft)   | 4.95        |        |  | Wetted Per. (ft)       | 10662.96    | 405.17     | 3504.36     |         |  |          |  |
| Min Ch El (ft)     | 573.58      |        |  | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |         |  |          |  |
| Alpha              | 1.01        |        |  | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |         |  |          |  |
| Frctn Loss (ft)    | 0.00        |        |  | Cum Volume (acre-ft)   | 23635.75    | 1337.80    | 8807.45     |         |  |          |  |
| C & E Loss (ft)    |             |        |  | Cum SA (acres)         | 170.83      | 6.90       | 59.26       |         |  |          |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

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## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1856.88\*

## INPUT

## Description:

| Station  | Elevation      | Data    | num=           | 35    | Sta            | Elev  | Sta            | Elev    | Sta    | Elev | Sta | Elev |
|----------|----------------|---------|----------------|-------|----------------|-------|----------------|---------|--------|------|-----|------|
| 0        | 720            | 600     | 680            | 1000  | 676            | 1300  | 678            | 2000    | 667    |      |     |      |
| 2200     | 670            | 2800    | 670            | 3800  | 650            | 4500  | 650            | 4600    | 640    |      |     |      |
| 4800     | 640            | 5200    | 620            | 5900  | 614            | 7800  | 614            | 7900    | 615    |      |     |      |
| 8400     | 615            | 8400    | 610            | 9200  | 610            | 9800  | 603            | 10000   | 600    |      |     |      |
| 10600    | 600            | 10700   | 573.56         | 10800 | 573.56         | 11000 | 600            | 12509.8 | 609.34 |      |     |      |
| 12811.76 | 609.6513151.11 |         | 636.2213214.38 |       | 643.9913346.67 |       | 655.1113415.69 |         | 658.37 |      |     |      |
| 13737.78 | 661.11         | 13818.3 | 660.8114031.11 |       | 669.5914226.67 |       | 678.4114422.22 |         | 695    |      |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
| 10600     | 11000 |       | 4.95     | 4.95         |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76689.84   | 499410.10   |
| E.G. slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76689.84   | 499410.10   |
| Q Total (cfs)      | 86735.68    | Flow (cfs)             | 61179.11    | 4000.51    | 21556.05    |
| Top width (ft)     | 14422.22    | Top width (ft)         | 10600.00    | 400.00     | 3422.22     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.64      | Hydr. Depth (ft)       | 137.47      | 191.72     | 145.93      |
| Conv. Total (cfs)  | 542983100.0 | Conv. (cfs)            | 382993800.0 | 25044020.0 | 134945300.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.18     | 3505.60     |
| Min Ch El (ft)     | 573.56      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 23470.16    | 1329.08    | 8750.72     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 169.62      | 6.86       | 58.87       |

warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1851.93\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35    | Sta            | Elev  | Sta            | Elev     | Sta    | Elev | Sta | Elev |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|----------|--------|------|-----|------|
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000     | 667    |      |     |      |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600     | 640    |      |     |      |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900     | 615    |      |     |      |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000    | 600    |      |     |      |
| 10600    | 600            | 10700 | 573.53         | 10800 | 573.53         | 11000 | 600            | 12510.35 | 609.3  |      |     |      |
| 12812.42 | 609.6313151.89 |       | 635.8113215.18 |       | 643.6513347.51 |       | 655.0313416.56 |          | 658.28 |      |     |      |
| 13738.77 | 661.1713819.32 |       | 660.8514032.21 |       | 669.4414227.83 |       | 678.1214423.46 |          | 695    |      |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
| 10600     | 11000 |       | 4.95     | 4.95         |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76697.33   | 499844.40   |
| E.G. slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76697.33   | 499844.40   |
| Q Total (cfs)      | 86735.25    | Flow (cfs)             | 61159.99    | 3999.84    | 21575.43    |
| Top width (ft)     | 14423.46    | Top width (ft)         | 10600.00    | 400.00     | 3423.46     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.67      | Hydr. Depth (ft)       | 137.47      | 191.74     | 146.01      |
| Conv. Total (cfs)  | 543150200.0 | Conv. (cfs)            | 382993800.0 | 25047620.0 | 135108800.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.19     | 3506.85     |
| Min Ch El (ft)     | 573.53      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 23304.57    | 1320.37    | 8693.94     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 168.42      | 6.81       | 58.48       |

warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1846.98\*

## INPUT

## Description:

| Station | Elevation | Data | num= | 35   | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev |
|---------|-----------|------|------|------|-----|------|-----|------|-----|------|-----|------|
| 0       | 720       | 600  | 680  | 1000 | 676 | 1300 | 678 | 2000 | 667 |      |     |      |
| 2200    | 670       | 2800 | 670  | 3800 | 650 | 4500 | 650 | 4600 | 640 |      |     |      |
| 4800    | 640       | 5200 | 620  | 5900 | 614 | 7800 | 614 | 7900 | 615 |      |     |      |

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|          |                |       |                |       |                |       |                |        |     |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|--------|-----|
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000  | 600 |
| 10600    | 600            | 10700 | 573.51         | 10800 | 573.51         | 11000 | 60012510.89    | 609.26 |     |
| 12813.07 | 609.6113152.66 |       | 635.3913215.98 |       | 643.3213348.36 |       | 654.9513417.43 | 658.18 |     |
| 13739.75 | 661.2313820.33 |       | 660.9 14033.3  |       | 669.2914228.99 |       | 677.8214424.69 | 695    |     |

Manning's n Values num= 3

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

|       |       |      |      |      |    |    |
|-------|-------|------|------|------|----|----|
| 10600 | 11000 | 4.95 | 4.95 | 4.95 | .1 | .3 |
|-------|-------|------|------|------|----|----|

CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76702.33   | 500281.20   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76702.33   | 500281.20   |
| Q Total (cfs)      | 86734.83    | Flow (cfs)             | 61140.86    | 3998.97    | 21595.00    |
| Top width (ft)     | 14424.69    | Top width (ft)         | 10600.00    | 400.00     | 3424.69     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.69      | Hydr. Depth (ft)       | 137.47      | 191.76     | 146.08      |
| Conv. Total (cfs)  | 543317400.0 | Conv. (cfs)            | 382993800.0 | 25050030.0 | 135273700.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.20     | 3508.09     |
| Min Ch El (ft)     | 573.51      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 23138.97    | 1311.65    | 8637.12     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 167.21      | 6.77       | 58.09       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1842.03\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35             |
|----------|----------------|-------|----------------|----------------|
| Sta      | Elev           | Sta   | Elev           | Sta            |
| 0        | 720            | 600   | 680            | 1000           |
| 2200     | 670            | 2800  | 670            | 3800           |
| 4800     | 640            | 5200  | 620            | 5900           |
| 8400     | 615            | 8400  | 610            | 9200           |
| 10600    | 600            | 10700 | 573.48         | 10800          |
| 12813.73 | 609.5913153.44 |       | 634.9713216.78 | 642.9813349.21 |
| 13740.74 | 661.313821.35  |       | 660.9414034.39 | 669.1414230.16 |

Manning's n Values num= 3

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

|       |       |      |      |      |    |    |
|-------|-------|------|------|------|----|----|
| 10600 | 11000 | 4.95 | 4.95 | 4.95 | .1 | .3 |
|-------|-------|------|------|------|----|----|

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76709.84   | 500706.90   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76709.84   | 500706.90   |
| Q Total (cfs)      | 86734.39    | Flow (cfs)             | 61122.18    | 3998.32    | 21613.88    |
| Top width (ft)     | 14425.93    | Top width (ft)         | 10600.00    | 400.00     | 3425.93     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.72      | Hydr. Depth (ft)       | 137.47      | 191.77     | 146.15      |
| Conv. Total (cfs)  | 543480800.0 | Conv. (cfs)            | 382993800.0 | 25053630.0 | 135433300.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.21     | 3509.35     |
| Min Ch El (ft)     | 573.48      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 22973.38    | 1302.94    | 8580.24     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 166.01      | 6.72       | 57.70       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1837.08\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35             |
|----------|----------------|-------|----------------|----------------|
| Sta      | Elev           | Sta   | Elev           | Sta            |
| 0        | 720            | 600   | 680            | 1000           |
| 2200     | 670            | 2800  | 670            | 3800           |
| 4800     | 640            | 5200  | 620            | 5900           |
| 8400     | 615            | 8400  | 610            | 9200           |
| 10600    | 600            | 10700 | 573.46         | 10800          |
| 12814.38 | 609.5713154.21 |       | 634.5613217.57 | 642.6513350.05 |
| 13741.73 | 661.3613822.37 |       | 660.9914035.49 | 668.9814231.32 |

Manning's n Values num= 3

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

|       |       |      |      |      |    |    |
|-------|-------|------|------|------|----|----|
| 10600 | 11000 | 4.95 | 4.95 | 4.95 | .1 | .3 |
|-------|-------|------|------|------|----|----|

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |              |            |             |
|--------------------|-------------|------------------------|--------------|------------|-------------|
|                    |             |                        | TXU_Rev1.rep |            |             |
| E.G. Elev (ft)     | 775.20      | Element                | Left OB      | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150        | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95         | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00   | 76714.83   | 501140.20   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00   | 76714.83   | 501140.20   |
| Q Total (cfs)      | 86733.97    | Flow (cfs)             | 61103.27     | 3997.47    | 21633.24    |
| Top width (ft)     | 14427.16    | Top width (ft)         | 10600.00     | 400.00     | 3427.16     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04         | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.74      | Hydr. Depth (ft)       | 137.47       | 191.79     | 146.23      |
| Conv. Total (cfs)  | 543646300.0 | Conv. (cfs)            | 382993800.0  | 25056030.0 | 135596600.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96     | 405.22     | 3510.60     |
| Min Ch El (ft)     | 573.46      | Shear (lb/sq ft)       | 0.00         | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00         | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 22807.79     | 1294.22    | 8523.32     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 164.81       | 6.68       | 57.31       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1832.13\*

## INPUT

## Description:

|          |                |       |                |                |
|----------|----------------|-------|----------------|----------------|
| Station  | Elevation      | Data  | num=           | 35             |
| Sta      | Elev           | Sta   | Elev           | Sta            |
| 0        | 720            | 600   | 680            | 1000           |
| 2200     | 670            | 2800  | 670            | 3800           |
| 4800     | 640            | 5200  | 620            | 5900           |
| 8400     | 615            | 8400  | 610            | 9200           |
| 10600    | 600            | 10700 | 573.43         | 10800          |
| 12815.03 | 609.5513154.99 |       | 634.1413218.37 | 642.32 13350.9 |
| 13742.72 | 661.4213823.38 |       | 661.0314036.58 | 668.8314232.49 |

## Manning's n Values

|     |       |       |       |
|-----|-------|-------|-------|
| Sta | n Val | Sta   | n Val |
| 0   | .15   | 10600 | .15   |

|           |       |       |          |              |       |       |        |        |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76722.34   | 501576.20   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76722.34   | 501576.20   |
| Q Total (cfs)      | 86733.54    | Flow (cfs)             | 61084.11    | 3996.79    | 21652.64    |
| Top width (ft)     | 14428.40    | Top width (ft)         | 10600.00    | 400.00     | 3428.40     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.77      | Hydr. Depth (ft)       | 137.47      | 191.81     | 146.30      |
| Conv. Total (cfs)  | 543814200.0 | Conv. (cfs)            | 382993800.0 | 25059640.0 | 135760800.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.23     | 3511.85     |
| Min Ch El (ft)     | 573.43      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 22642.20    | 1285.50    | 8466.35     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 163.60      | 6.63       | 56.92       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1827.18\*

## INPUT

## Description:

|          |                |       |                |                |
|----------|----------------|-------|----------------|----------------|
| Station  | Elevation      | Data  | num=           | 35             |
| Sta      | Elev           | Sta   | Elev           | Sta            |
| 0        | 720            | 600   | 680            | 1000           |
| 2200     | 670            | 2800  | 670            | 3800           |
| 4800     | 640            | 5200  | 620            | 5900           |
| 8400     | 615            | 8400  | 610            | 9200           |
| 10600    | 600            | 10700 | 573.41         | 10800          |
| 12815.69 | 609.5313155.77 |       | 633.7213219.17 | 641.9813351.75 |
| 13743.7  | 661.48 13824.4 |       | 661.0714037.67 | 668.6814233.65 |

## Manning's n Values

|     |       |       |       |
|-----|-------|-------|-------|
| Sta | n Val | Sta   | n Val |
| 0   | .15   | 10600 | .15   |

|           |       |       |          |              |       |       |        |        |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76727.34   | 502006.50   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76727.34   | 502006.50   |
| Q Total (cfs)      | 86733.11    | Flow (cfs)             | 61065.35    | 3995.95    | 21671.81    |
| Top width (ft)     | 14429.63    | Top width (ft)         | 10600.00    | 400.00     | 3429.63     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.79      | Hydr. Depth (ft)       | 137.47      | 191.82     | 146.37      |
| Conv. Total (cfs)  | 543978600.0 | Conv. (cfs)            | 382993800.0 | 25062040.0 | 135922700.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.23     | 3513.10     |
| Min Ch El (ft)     | 573.41      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 22476.61    | 1276.78    | 8409.33     |

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C & E Loss (ft) Cum SA (acres) TXU\_Rev1.rep 162.40 6.59 56.53

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1822.23\*

## INPUT

## Description:

| Station  | Elevation      | Data           | num=           | 35             |
|----------|----------------|----------------|----------------|----------------|
| Sta      | Elev           | Sta            | Elev           | Sta            |
| 0        | 720            | 600            | 680            | 1000           |
| 2200     | 670            | 2800           | 670            | 3800           |
| 4800     | 640            | 5200           | 620            | 5900           |
| 8400     | 615            | 8400           | 610            | 9200           |
| 10600    | 600            | 10700          | 573.38         | 10800          |
| 12816.34 | 609.5113156.54 | 633.3113219.97 | 641.6513352.59 | 654.5413421.79 |
| 13744.69 | 661.5413825.42 | 661.1214038.77 | 668.5314234.81 | 676.3614430.86 |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
| 10600     | 11000 | 4.95  | 4.95     | 4.95         | .1    | .3    |        |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76734.84   | 502438.20   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76734.84   | 502438.20   |
| Q Total (cfs)      | 86732.68    | Flow (cfs)             | 61046.40    | 3995.28    | 21691.00    |
| Top width (ft)     | 14430.86    | Top width (ft)         | 10600.00    | 400.00     | 3430.86     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.82      | Hydr. Depth (ft)       | 137.47      | 191.84     | 146.45      |
| Conv. Total (cfs)  | 544144700.0 | Conv. (cfs)            | 382993800.0 | 25065640.0 | 136085300.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.25     | 3514.36     |
| Min Ch El (ft)     | 573.38      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 22311.02    | 1268.06    | 8352.26     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 161.19      | 6.54       | 56.14       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1817.28\*

## INPUT

## Description:

| Station  | Elevation      | Data           | num=           | 35             |
|----------|----------------|----------------|----------------|----------------|
| Sta      | Elev           | Sta            | Elev           | Sta            |
| 0        | 720            | 600            | 680            | 1000           |
| 2200     | 670            | 2800           | 670            | 3800           |
| 4800     | 640            | 5200           | 620            | 5900           |
| 8400     | 615            | 8400           | 610            | 9200           |
| 10600    | 600            | 10700          | 573.36         | 10800          |
| 12816.99 | 609.4913157.32 | 632.8913220.77 | 641.3113353.44 | 654.4613422.66 |
| 13745.68 | 661.613826.43  | 661.1614039.86 | 668.3714235.98 | 676.07 14432.1 |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
| 10600     | 11000 | 4.95  | 4.95     | 4.95         | .1    | .3    |        |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76739.84   | 502877.90   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76739.84   | 502877.90   |
| Q Total (cfs)      | 86732.25    | Flow (cfs)             | 61027.22    | 3994.41    | 21710.62    |
| Top width (ft)     | 14432.10    | Top width (ft)         | 10600.00    | 400.00     | 3432.10     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.84      | Hydr. Depth (ft)       | 137.47      | 191.85     | 146.52      |
| Conv. Total (cfs)  | 544313000.0 | Conv. (cfs)            | 382993800.0 | 25068040.0 | 136251200.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.25     | 3515.62     |
| Min Ch El (ft)     | 573.36      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 22145.42    | 1259.34    | 8295.14     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 159.99      | 6.49       | 55.75       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1812.33\*

## INPUT

## Description:

| Station | Elevation | Data | num= | 35 |
|---------|-----------|------|------|----|
|---------|-----------|------|------|----|



| TXU_Rev1.rep                         |                |                        |                |                |             |        |             |        |       |     |
|--------------------------------------|----------------|------------------------|----------------|----------------|-------------|--------|-------------|--------|-------|-----|
| Sta                                  | Elev           | Sta                    | Elev           | Sta            | Elev        | Sta    | Elev        | Sta    | Elev  | Sta |
| 0                                    | 720            | 600                    | 680            | 1000           | 676         | 1300   | 678         | 2000   | 667   |     |
| 2200                                 | 670            | 2800                   | 670            | 3800           | 650         | 4500   | 650         | 4600   | 640   |     |
| 4800                                 | 640            | 5200                   | 620            | 5900           | 614         | 7800   | 614         | 7900   | 615   |     |
| 8400                                 | 615            | 8400                   | 610            | 9200           | 610         | 9800   | 603         | 10000  | 600   |     |
| 10600                                | 600            | 10700                  | 573.33         | 10800          | 573.33      | 11000  | 60012514.71 | 609.01 |       |     |
| 12817.65                             | 609.4713158.09 | 632.4813221.57         | 640.9813354.29 | 654.3813423.53 | 657.55      |        |             |        |       |     |
| 13746.67                             | 661.6713827.45 | 661.2114040.95         | 668.2214237.14 | 675.7814433.33 | 695         |        |             |        |       |     |
| Manning's n Values                   |                |                        |                |                |             |        |             |        |       |     |
| Sta                                  | n Val          | Sta                    | n Val          | Sta            | n Val       | Sta    | n Val       | Sta    | n Val | Sta |
| 0                                    | .15            | 10600                  | .15            | 11000          | .15         |        |             |        |       |     |
| Bank Sta: Left                       | Right          | Lengths: Left          | Channel        | Right          | Coeff       | Contr. | Expan.      |        |       |     |
| 10600                                | 11000          | 4.95                   | 4.95           | 4.95           | .1          | .3     |             |        |       |     |
| CROSS SECTION OUTPUT Profile #Max WS |                |                        |                |                |             |        |             |        |       |     |
| E.G. Elev (ft)                       | 775.20         | Element                | Left OB        | Channel        | Right OB    |        |             |        |       |     |
| Vel Head (ft)                        | 0.00           | Wt. n-Val.             | 0.150          | 0.150          | 0.150       |        |             |        |       |     |
| W.S. Elev (ft)                       | 775.20         | Reach Len. (ft)        | 4.95           | 4.95           | 4.95        |        |             |        |       |     |
| Crit W.S. (ft)                       |                | Flow Area (sq ft)      | 1457216.00     | 76747.33       | 503299.20   |        |             |        |       |     |
| E.G. Slope (ft/ft)                   | 0.000000       | Area (sq ft)           | 1457216.00     | 76747.33       | 503299.20   |        |             |        |       |     |
| Q Total (cfs)                        | 86731.82       | Flow (cfs)             | 61008.83       | 3993.78        | 21729.21    |        |             |        |       |     |
| Top width (ft)                       | 14433.33       | Top width (ft)         | 10600.00       | 400.00         | 3433.33     |        |             |        |       |     |
| Vel Total (ft/s)                     | 0.04           | Avg. Vel. (ft/s)       | 0.04           | 0.05           | 0.04        |        |             |        |       |     |
| Max Chl Dpth (ft)                    | 201.87         | Hydr. Depth (ft)       | 137.47         | 191.87         | 146.59      |        |             |        |       |     |
| Conv. Total (cfs)                    | 544474400.0    | Conv. (cfs)            | 382993800.0    | 25071640.0     | 136409000.0 |        |             |        |       |     |
| Length wtd. (ft)                     | 4.95           | Wetted Per. (ft)       | 10662.96       | 405.27         | 3516.88     |        |             |        |       |     |
| Min Ch El (ft)                       | 573.33         | Shear (lb/sq ft)       | 0.00           | 0.00           | 0.00        |        |             |        |       |     |
| Alpha                                | 1.01           | Stream Power (lb/ft s) | 0.00           | 0.00           | 0.00        |        |             |        |       |     |
| Frctn Loss (ft)                      | 0.00           | Cum Volume (acre-ft)   | 21979.83       | 1250.62        | 8237.97     |        |             |        |       |     |
| C & E Loss (ft)                      |                | Cum SA (acres)         | 158.78         | 6.45           | 55.36       |        |             |        |       |     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1807.38\*

## INPUT

## Description:

| Station Elevation Data |                |                |                |                |         |        |             |        |      |     |
|------------------------|----------------|----------------|----------------|----------------|---------|--------|-------------|--------|------|-----|
| Sta                    | Elev           | Sta            | Elev           | Sta            | Elev    | Sta    | Elev        | Sta    | Elev | Sta |
| 0                      | 720            | 600            | 680            | 1000           | 676     | 1300   | 678         | 2000   | 667  |     |
| 2200                   | 670            | 2800           | 670            | 3800           | 650     | 4500   | 650         | 4600   | 640  |     |
| 4800                   | 640            | 5200           | 620            | 5900           | 614     | 7800   | 614         | 7900   | 615  |     |
| 8400                   | 615            | 8400           | 610            | 9200           | 610     | 9800   | 603         | 10000  | 600  |     |
| 10600                  | 600            | 10700          | 573.31         | 10800          | 573.31  | 11000  | 60012515.25 | 608.97 |      |     |
| 12818.3                | 609.4513158.87 | 632.0613222.37 | 640.6513355.13 | 654.3          | 13424.4 | 657.46 |             |        |      |     |
| 13747.65               | 661.7313828.05 | 661.2514042.05 | 668.0714238.31 | 675.4914434.57 | 695     |        |             |        |      |     |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val | Sta | n Val | Sta | n Val | Sta |
|-----|-------|-------|-------|-------|-------|-----|-------|-----|-------|-----|
| 0   | .15   | 10600 | .15   | 11000 | .15   |     |       |     |       |     |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 10600          | 11000 | 4.95          | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |  |  |  |  |  |
|--------------------|-------------|------------------------|-------------|------------|-------------|--|--|--|--|--|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |  |  |  |  |  |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |  |  |  |  |  |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |  |  |  |  |  |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76752.34   | 503736.10   |  |  |  |  |  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76752.34   | 503736.10   |  |  |  |  |  |
| Q Total (cfs)      | 86731.39    | Flow (cfs)             | 60989.82    | 3992.92    | 21748.66    |  |  |  |  |  |
| Top width (ft)     | 14434.57    | Top width (ft)         | 10600.00    | 400.00     | 3434.57     |  |  |  |  |  |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |  |  |  |  |  |
| Max Chl Dpth (ft)  | 201.89      | Hydr. Depth (ft)       | 137.47      | 191.88     | 146.67      |  |  |  |  |  |
| Conv. Total (cfs)  | 544641400.0 | Conv. (cfs)            | 382993800.0 | 25074040.0 | 136573600.0 |  |  |  |  |  |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.27     | 3518.14     |  |  |  |  |  |
| Min Ch El (ft)     | 573.31      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |  |  |  |  |  |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |  |  |  |  |  |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 21814.24    | 1241.90    | 8180.75     |  |  |  |  |  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 157.58      | 6.40       | 54.97       |  |  |  |  |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1802.43\*

## INPUT

## Description:

| Station Elevation Data |                |                |                |                |         |       |             |        |      |     |
|------------------------|----------------|----------------|----------------|----------------|---------|-------|-------------|--------|------|-----|
| Sta                    | Elev           | Sta            | Elev           | Sta            | Elev    | Sta   | Elev        | Sta    | Elev | Sta |
| 0                      | 720            | 600            | 680            | 1000           | 676     | 1300  | 678         | 2000   | 667  |     |
| 2200                   | 670            | 2800           | 670            | 3800           | 650     | 4500  | 650         | 4600   | 640  |     |
| 4800                   | 640            | 5200           | 620            | 5900           | 614     | 7800  | 614         | 7900   | 615  |     |
| 8400                   | 615            | 8400           | 610            | 9200           | 610     | 9800  | 603         | 10000  | 600  |     |
| 10600                  | 600            | 10700          | 573.28         | 10800          | 573.28  | 11000 | 60012515.79 | 608.93 |      |     |
| 12818.95               | 609.4413159.65 | 631.6413223.17 | 640.3113355.98 | 654.2213425.27 | 657.37  |       |             |        |      |     |
| 13748.64               | 661.7913829.48 | 661.314043.14  | 667.9214239.47 | 675.19         | 14435.8 | 695   |             |        |      |     |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val | Sta | n Val | Sta | n Val | Sta |
|-----|-------|-------|-------|-------|-------|-----|-------|-----|-------|-----|
| 0   | .15   | 10600 | .15   | 11000 | .15   |     |       |     |       |     |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 10600          | 11000 | 4.95          | 4.95    | 4.95  | .1    | .3     |        |

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.1 .3

10600 11000 4.95 4.95 4.95

CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76759.83   | 504170.50   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76759.83   | 504170.50   |
| Q Total (cfs)      | 86730.97    | Flow (cfs)             | 60970.80    | 3992.24    | 21767.93    |
| Top width (ft)     | 14435.80    | Top width (ft)         | 10600.00    | 400.00     | 3435.80     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.92      | Hydr. Depth (ft)       | 137.47      | 191.90     | 146.74      |
| Conv. Total (cfs)  | 544808700.0 | Conv. (cfs)            | 382993800.0 | 25077640.0 | 136737300.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.29     | 3519.40     |
| Min Ch El (ft)     | 573.28      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 21648.65    | 1233.18    | 8123.48     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 156.37      | 6.36       | 54.58       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1797.48\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=   | 35       |
|----------|-----------|----------|--------|----------|
| Sta      | Elev      | Sta      | Elev   | Sta      |
| 0        | 720       | 600      | 680    | 1000     |
| 2200     | 670       | 2800     | 670    | 3800     |
| 4800     | 640       | 5200     | 620    | 5900     |
| 8400     | 615       | 8400     | 610    | 9200     |
| 10600    | 600       | 10700    | 573.26 | 10800    |
| 12819.61 | 609.42    | 13160.42 | 631.23 | 13223.96 |
| 13749.63 | 661.85    | 13830.5  | 661.34 | 14044.23 |
|          |           |          | 667.77 | 14240.63 |
|          |           |          | 674.91 | 14437.04 |
|          |           |          | 695    |          |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76764.83   | 504596.50   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76764.83   | 504596.50   |
| Q Total (cfs)      | 86730.54    | Flow (cfs)             | 60952.36    | 3991.42    | 21786.76    |
| Top width (ft)     | 14437.04    | Top width (ft)         | 10600.00    | 400.00     | 3437.04     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.94      | Hydr. Depth (ft)       | 137.47      | 191.91     | 146.81      |
| Conv. Total (cfs)  | 544970800.0 | Conv. (cfs)            | 382993800.0 | 25080040.0 | 136897000.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.29     | 3520.67     |
| Min Ch El (ft)     | 573.26      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 21483.06    | 1224.45    | 8066.17     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 155.17      | 6.31       | 54.19       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1792.53\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=   | 35       |
|----------|-----------|----------|--------|----------|
| Sta      | Elev      | Sta      | Elev   | Sta      |
| 0        | 720       | 600      | 680    | 1000     |
| 2200     | 670       | 2800     | 670    | 3800     |
| 4800     | 640       | 5200     | 620    | 5900     |
| 8400     | 615       | 8400     | 610    | 9200     |
| 10600    | 600       | 10700    | 573.23 | 10800    |
| 12820.26 | 609.4     | 13161.2  | 630.81 | 13224.76 |
| 13750.62 | 661.91    | 13831.52 | 661.39 | 14045.33 |
|          |           |          | 667.61 | 14241.8  |
|          |           |          | 674.61 | 14438.27 |
|          |           |          | 695    |          |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                   |             |            |             |
|--------------------|-------------|-------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element           | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.        | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)   | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft) | 1457216.00  | 76772.34   | 505034.60   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)      | 1457216.00  | 76772.34   | 505034.60   |
| Q Total (cfs)      | 86730.11    | Flow (cfs)        | 60933.16    | 3990.73    | 21806.21    |
| Top width (ft)     | 14438.27    | Top width (ft)    | 10600.00    | 400.00     | 3438.27     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)  | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.97      | Hydr. Depth (ft)  | 137.47      | 191.93     | 146.89      |
| Conv. Total (cfs)  | 545139800.0 | Conv. (cfs)       | 382993800.0 | 25083650.0 | 137062400.0 |

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|                  |        |                        |          |         |         |
|------------------|--------|------------------------|----------|---------|---------|
| TXU_Rev1.rep     |        |                        |          |         |         |
| Length Wtd. (ft) | 4.95   | wetted Per. (ft)       | 10662.96 | 405.30  | 3521.94 |
| Min Ch El (ft)   | 573.23 | Shear (lb/sq ft)       | 0.00     | 0.00    | 0.00    |
| Alpha            | 1.01   | Stream Power (lb/ft s) | 0.00     | 0.00    | 0.00    |
| Frctn Loss (ft)  | 0.00   | Cum Volume (acre-ft)   | 21317.46 | 1215.73 | 8008.80 |
| C & E Loss (ft)  |        | Cum SA (acres)         | 153.96   | 6.27    | 53.80   |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 1787.58\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35             |        |       |                |        |      |  |
|----------|----------------|-------|----------------|----------------|--------|-------|----------------|--------|------|--|
| Sta      | Elev           | Sta   | Elev           | Sta            | Elev   | Sta   | Elev           | Sta    | Elev |  |
| 0        | 720            | 600   | 680            | 1000           | 676    | 1300  | 678            | 2000   | 667  |  |
| 2200     | 670            | 2800  | 670            | 3800           | 650    | 4500  | 650            | 4600   | 640  |  |
| 4800     | 640            | 5200  | 620            | 5900           | 614    | 7800  | 614            | 7900   | 615  |  |
| 8400     | 615            | 8400  | 610            | 9200           | 610    | 9800  | 603            | 10000  | 600  |  |
| 10600    | 600            | 10700 | 573.21         | 10800          | 573.21 | 11000 | 60012517.43    | 608.82 |      |  |
| 12820.92 | 609.3813161.98 |       | 630.413225.56  | 639.3113358.52 |        |       | 653.9813427.89 | 657.1  |      |  |
| 13751.6  | 661.9813832.53 |       | 661.4314046.42 | 667.4614242.96 |        |       | 674.3214439.51 | 695    |      |  |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76777.33   | 505468.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76777.33   | 505468.30   |
| Q Total (cfs)      | 86729.68    | Flow (cfs)             | 60914.37    | 3989.88    | 21825.43    |
| Top width (ft)     | 14439.51    | Top width (ft)         | 10600.00    | 400.00     | 3439.51     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 201.99      | Hydr. Depth (ft)       | 137.47      | 191.94     | 146.96      |
| Conv. Total (cfs)  | 545305300.0 | Conv. (cfs)            | 382993800.0 | 25086040.0 | 137225500.0 |
| Length Wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.31     | 3523.21     |
| Min Ch El (ft)     | 573.21      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 21151.87    | 1207.01    | 7951.39     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 152.76      | 6.22       | 53.41       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 1782.63\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35             |        |       |                |        |      |  |
|----------|----------------|-------|----------------|----------------|--------|-------|----------------|--------|------|--|
| Sta      | Elev           | Sta   | Elev           | Sta            | Elev   | Sta   | Elev           | Sta    | Elev |  |
| 0        | 720            | 600   | 680            | 1000           | 676    | 1300  | 678            | 2000   | 667  |  |
| 2200     | 670            | 2800  | 670            | 3800           | 650    | 4500  | 650            | 4600   | 640  |  |
| 4800     | 640            | 5200  | 620            | 5900           | 614    | 7800  | 614            | 7900   | 615  |  |
| 8400     | 615            | 8400  | 610            | 9200           | 610    | 9800  | 603            | 10000  | 600  |  |
| 10600    | 600            | 10700 | 573.19         | 10800          | 573.19 | 11000 | 60012517.97    | 608.79 |      |  |
| 12821.57 | 609.3613162.75 |       | 629.9813226.36 | 638.9813359.37 |        |       | 653.8913428.76 | 657    |      |  |
| 13752.59 | 662.0413833.55 |       | 661.4814047.51 | 667.3114244.13 |        |       | 674.0214440.74 | 695    |      |  |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76782.34   | 505899.60   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76782.34   | 505899.60   |
| Q Total (cfs)      | 86729.25    | Flow (cfs)             | 60895.68    | 3989.04    | 21844.54    |
| Top width (ft)     | 14440.74    | Top width (ft)         | 10600.00    | 400.00     | 3440.74     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.01      | Hydr. Depth (ft)       | 137.47      | 191.96     | 147.03      |
| Conv. Total (cfs)  | 545470000.0 | Conv. (cfs)            | 382993800.0 | 25088450.0 | 137387800.0 |
| Length Wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.32     | 3524.48     |
| Min Ch El (ft)     | 573.19      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 20986.28    | 1198.28    | 7893.92     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 151.56      | 6.18       | 53.02       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 1777.67\*



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## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35    | Elev           | Sta   | Elev           | Sta   | Elev   | Sta | Elev |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|--------|-----|------|
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000  | 667    |     |      |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600  | 640    |     |      |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900  | 615    |     |      |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000 | 600    |     |      |
| 10600    | 600            | 10700 | 573.16         | 10800 | 573.16         | 11000 | 60012518.52    |       | 608.75 |     |      |
| 12822.22 | 609.3413163.53 |       | 629.5613227.16 |       | 638.6413360.21 |       | 653.8113429.63 |       | 656.91 |     |      |
| 13753.58 | 662.113834.57  |       | 661.5214048.61 |       | 667.1614245.29 |       | 673.7314441.98 |       | 695    |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
| 10600     | 11000 |       | 4.95     | 4.95         | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76789.84   | 506338.60   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76789.84   | 506338.60   |
| Q Total (cfs)      | 86728.82    | Flow (cfs)             | 60876.50    | 3988.36    | 21863.96    |
| Top width (ft)     | 14441.98    | Top width (ft)         | 10600.00    | 400.00     | 3441.98     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.04      | Hydr. Depth (ft)       | 137.47      | 191.97     | 147.11      |
| Conv. Total (cfs)  | 545639000.0 | Conv. (cfs)            | 382993800.0 | 25092050.0 | 137553200.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.33     | 3525.75     |
| Min Ch El (ft)     | 573.16      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 20820.69    | 1189.56    | 7836.41     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 150.35      | 6.13       | 52.63       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 1772.72\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35    | Elev           | Sta   | Elev           | Sta   | Elev   | Sta | Elev |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|--------|-----|------|
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000  | 667    |     |      |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600  | 640    |     |      |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900  | 615    |     |      |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000 | 600    |     |      |
| 10600    | 600            | 10700 | 573.14         | 10800 | 573.14         | 11000 | 60012519.06    |       | 608.71 |     |      |
| 12822.88 | 609.32 13164.3 |       | 629.1513227.96 |       | 638.3113361.06 |       | 653.73 13430.5 |       | 656.82 |     |      |
| 13754.57 | 662.1613835.58 |       | 661.57 14049.7 |       | 667.14246.46   |       | 673.4414443.21 |       | 695    |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
| 10600     | 11000 |       | 4.95     | 4.95         | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76794.83   | 506774.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76794.83   | 506774.30   |
| Q Total (cfs)      | 86728.39    | Flow (cfs)             | 60857.61    | 3987.50    | 21883.29    |
| Top width (ft)     | 14443.21    | Top width (ft)         | 10600.00    | 400.00     | 3443.21     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.06      | Hydr. Depth (ft)       | 137.47      | 191.99     | 147.18      |
| Conv. Total (cfs)  | 545805800.0 | Conv. (cfs)            | 382993800.0 | 25094440.0 | 137717600.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.34     | 3527.02     |
| Min Ch El (ft)     | 573.14      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 20655.10    | 1180.83    | 7778.85     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 149.15      | 6.09       | 52.24       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 1767.77\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35    | Elev           | Sta   | Elev           | Sta   | Elev   | Sta | Elev |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|--------|-----|------|
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000  | 667    |     |      |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600  | 640    |     |      |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900  | 615    |     |      |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000 | 600    |     |      |
| 10600    | 600            | 10700 | 573.11         | 10800 | 573.11         | 11000 | 60012519.61    |       | 608.67 |     |      |
| 12823.53 | 609.313165.08  |       | 628.7313228.76 |       | 637.9713361.91 |       | 653.6513431.37 |       | 656.73 |     |      |
| 13755.56 | 662.22 13836.6 |       | 661.6114050.79 |       | 666.8514247.62 |       | 673.1514444.44 |       | 695    |     |      |

## Manning's n Values

num= 3

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| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

  

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  |       | .1     | .3     |

CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76802.34   | 507212.90   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76802.34   | 507212.90   |
| Q Total (cfs)      | 86727.96    | Flow (cfs)             | 60838.45    | 3986.82    | 21902.70    |
| Top width (ft)     | 14444.44    | Top width (ft)         | 10600.00    | 400.00     | 3444.44     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.09      | Hydr. Depth (ft)       | 137.47      | 192.01     | 147.26      |
| Conv. Total (cfs)  | 545974900.0 | Conv. (cfs)            | 382993800.0 | 25098040.0 | 137883100.0 |
| Length Wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.35     | 3528.30     |
| Min Ch El (ft)     | 573.11      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 20489.51    | 1172.10    | 7721.23     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 147.94      | 6.04       | 51.84       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 1762.82\*

## INPUT

## Description:

| Station Elevation Data |             |       | num= 35     |       |             |       |             |        |        |
|------------------------|-------------|-------|-------------|-------|-------------|-------|-------------|--------|--------|
| Sta                    | Elev        | Sta   | Elev        | Sta   | Elev        | Sta   | Elev        | Sta    | Elev   |
| 0                      | 720         | 600   | 680         | 1000  | 676         | 1300  | 678         | 2000   | 667    |
| 2200                   | 670         | 2800  | 670         | 3800  | 650         | 4500  | 650         | 4600   | 640    |
| 4800                   | 640         | 5200  | 620         | 5900  | 614         | 7800  | 614         | 7900   | 615    |
| 8400                   | 615         | 8400  | 610         | 9200  | 610         | 9800  | 603         | 10000  | 600    |
| 10600                  | 600         | 10700 | 573.09      | 10800 | 573.09      | 11000 | 60012520.15 | 608.64 |        |
| 12824.18               | 609.2813165 | .86   | 628.3113229 | .56   | 637.6413362 | .75   | 653.5713432 | .24    | 656.64 |
| 13756.54               | 662.2813837 | .62   | 661.6614051 | .89   | 666.714248  | .78   | 672.8614445 | .68    | 695    |

## Manning's n values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76807.33   | 507640.70   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76807.33   | 507640.70   |
| Q Total (cfs)      | 86727.53    | Flow (cfs)             | 60820.01    | 3985.99    | 21921.53    |
| Top width (ft)     | 14445.68    | Top width (ft)         | 10600.00    | 400.00     | 3445.68     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.11      | Hydr. Depth (ft)       | 137.47      | 192.02     | 147.33      |
| Conv. Total (cfs)  | 546137700.0 | Conv. (cfs)            | 382993800.0 | 25100440.0 | 138043500.0 |
| Length Wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.36     | 3529.58     |
| Min Ch El (ft)     | 573.09      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 20323.91    | 1163.37    | 7663.57     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 146.74      | 5.99       | 51.45       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 1757.87\*

## INPUT

## Description:

| Station Elevation Data |             |       | num=       |       | 35          |       |             |         |        |
|------------------------|-------------|-------|------------|-------|-------------|-------|-------------|---------|--------|
| Sta                    | Elev        | Sta   | Elev       | Sta   | Elev        | Sta   | Elev        | Sta     | Elev   |
| 0                      | 720         | 600   | 680        | 1000  | 676         | 1300  | 678         | 2000    | 667    |
| 2200                   | 670         | 2800  | 670        | 3800  | 650         | 4500  | 650         | 4600    | 640    |
| 4800                   | 640         | 5200  | 620        | 5900  | 614         | 7800  | 614         | 7900    | 615    |
| 8400                   | 615         | 8400  | 610        | 9200  | 610         | 9800  | 603         | 10000   | 600    |
| 10600                  | 600         | 10700 | 573.06     | 10800 | 573.06      | 11000 | 600         | 12520.7 | 608.6  |
| 12824.84               | 609.2613166 | .63   | 627.913230 | .36   | 637.3113363 | .6    | 653.4913433 | .12     | 656.55 |
| 13757.53               | 662.3513838 | .63   | 661.714052 | .98   | 666.5514249 | .95   | 672.5614446 | .91     | 695    |

## Manning's n values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |          |                   |            |          |           |
|--------------------|----------|-------------------|------------|----------|-----------|
| E.G. Elev (ft)     | 775.20   | Element           | Left OB    | Channel  | Right OB  |
| Vel Head (ft)      | 0.00     | wt. n-val.        | 0.150      | 0.150    | 0.150     |
| W.S. Elev (ft)     | 775.20   | Reach Len. (ft)   | 4.95       | 4.95     | 4.95      |
| Crit W.S. (ft)     |          | Flow Area (sq ft) | 1457216.00 | 76814.84 | 508076.60 |
| E.G. Slope (ft/ft) | 0.000000 | Area (sq ft)      | 1457216.00 | 76814.84 | 508076.60 |
| Q Total (cfs)      | 86727.10 | Flow (cfs)        | 60801.02   | 3985.32  | 21940.77  |

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|                   |             |                        |              |            |             |
|-------------------|-------------|------------------------|--------------|------------|-------------|
|                   |             |                        | TXU_Rev1.rep |            |             |
| Top width (ft)    | 14446.91    | Top width (ft)         | 10600.00     | 400.00     | 3446.91     |
| Vel Total (ft/s)  | 0.04        | Avg. Vel. (ft/s)       | 0.04         | 0.05       | 0.04        |
| Max Chl Dpth (ft) | 202.14      | Hydr. Depth (ft)       | 137.47       | 192.04     | 147.40      |
| Conv. Total (cfs) | 546305700.0 | Conv. (cfs)            | 382993800.0  | 25104040.0 | 138207800.0 |
| Length wtd. (ft)  | 4.95        | wetted Per. (ft)       | 10662.96     | 405.37     | 3530.86     |
| Min Ch El (ft)    | 573.06      | Shear (lb/sq ft)       | 0.00         | 0.00       | 0.00        |
| Alpha             | 1.01        | Stream Power (lb/ft s) | 0.00         | 0.00       | 0.00        |
| Frctn Loss (ft)   | 0.00        | Cum Volume (acre-ft)   | 20158.32     | 1154.65    | 7605.86     |
| C & E Loss (ft)   |             | Cum SA (acres)         | 145.53       | 5.95       | 51.06       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1752.92\*

## INPUT

## Description:

|                        |                |                |                |
|------------------------|----------------|----------------|----------------|
| Station Elevation Data |                | num=           | 35             |
| Sta                    | Elev           | Sta            | Elev           |
| 0                      | 720            | 600            | 680            |
| 2200                   | 670            | 2800           | 670            |
| 4800                   | 640            | 5200           | 620            |
| 8400                   | 615            | 8400           | 610            |
| 10600                  | 600            | 10700          | 573.04         |
| 12825.49               | 609.2413167.41 | 627.4813231.15 | 636.9713364.44 |
| 13758.52               | 662.4113839.65 | 661.7514054.07 | 666.414251.11  |

|                    |       |       |       |
|--------------------|-------|-------|-------|
| Manning's n Values |       | num=  | 3     |
| Sta                | n Val | Sta   | n Val |
| 0                  | .15   | 10600 | .15   |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 10600          | 11000 | 4.95          | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76819.84   | 508514.90   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76819.84   | 508514.90   |
| Q Total (cfs)      | 86726.67    | Flow (cfs)             | 60782.08    | 3984.46    | 21960.14    |
| Top width (ft)     | 14448.15    | Top width (ft)         | 10600.00    | 400.00     | 3448.15     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.16      | Hydr. Depth (ft)       | 137.47      | 192.05     | 147.47      |
| Conv. Total (cfs)  | 546473200.0 | Conv. (cfs)            | 382993800.0 | 25106440.0 | 138373000.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.38     | 3532.14     |
| Min Ch El (ft)     | 573.04      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 19992.73    | 1145.92    | 7548.10     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 144.33      | 5.90       | 50.67       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1747.97\*

## INPUT

## Description:

|                        |                |                |                |
|------------------------|----------------|----------------|----------------|
| Station Elevation Data |                | num=           | 35             |
| Sta                    | Elev           | Sta            | Elev           |
| 0                      | 720            | 600            | 680            |
| 2200                   | 670            | 2800           | 670            |
| 4800                   | 640            | 5200           | 620            |
| 8400                   | 615            | 8400           | 610            |
| 10600                  | 600            | 10700          | 573.01         |
| 12826.14               | 609.2213168.18 | 627.0713231.95 | 636.6413365.29 |
| 13759.51               | 662.4713840.67 | 661.7914055.17 | 666.2414252.27 |

|                    |       |       |       |
|--------------------|-------|-------|-------|
| Manning's n Values |       | num=  | 3     |
| Sta                | n Val | Sta   | n Val |
| 0                  | .15   | 10600 | .15   |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 10600          | 11000 | 4.95          | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76827.33   | 508943.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76827.33   | 508943.80   |
| Q Total (cfs)      | 86726.23    | Flow (cfs)             | 60763.45    | 3983.80    | 21978.97    |
| Top width (ft)     | 14449.38    | Top width (ft)         | 10600.00    | 400.00     | 3449.38     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.19      | Hydr. Depth (ft)       | 137.47      | 192.07     | 147.55      |
| Conv. Total (cfs)  | 546637900.0 | Conv. (cfs)            | 382993800.0 | 25110030.0 | 138534100.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.39     | 3533.42     |
| Min Ch El (ft)     | 573.01      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 19827.14    | 1137.19    | 7490.29     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 143.12      | 5.86       | 50.28       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION



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RIVER: SQUAW CREEK  
REACH: SC

RS: 1743.02\*

INPUT  
Description:

| Station Elevation Data |                | num= 35        |                | Sta Elev       |        | Sta Elev |             | Sta Elev |      |
|------------------------|----------------|----------------|----------------|----------------|--------|----------|-------------|----------|------|
| Sta                    | Elev           | Sta            | Elev           | Sta            | Elev   | Sta      | Elev        | Sta      | Elev |
| 0                      | 720            | 600            | 680            | 1000           | 676    | 1300     | 678         | 2000     | 667  |
| 2200                   | 670            | 2800           | 670            | 3800           | 650    | 4500     | 650         | 4600     | 640  |
| 4800                   | 640            | 5200           | 620            | 5900           | 614    | 7800     | 614         | 7900     | 615  |
| 8400                   | 615            | 8400           | 610            | 9200           | 610    | 9800     | 603         | 10000    | 600  |
| 10600                  | 600            | 10700          | 572.99         | 10800          | 572.99 | 11000    | 60012522.33 | 608.49   |      |
| 12826.8                | 609.213168.96  | 626.6513232.75 | 636.313366.14  | 653.2513435.73 | 656.28 |          |             |          |      |
| 13760.49               | 662.5313841.68 | 661.8414056.26 | 666.0914253.44 | 671.6914450.62 | 695    |          |             |          |      |

| Manning's n Values |       | num= 3 |       | Sta n Val |       | Sta n Val |       |
|--------------------|-------|--------|-------|-----------|-------|-----------|-------|
| Sta                | n Val | Sta    | n Val | Sta       | n Val | Sta       | n Val |
| 0                  | .15   | 10600  | .15   | 11000     | .15   |           |       |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76832.34   | 509382.70   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76832.34   | 509382.70   |
| Q Total (cfs)      | 86725.80    | Flow (cfs)             | 60744.50    | 3982.94    | 21998.36    |
| Top width (ft)     | 14450.62    | Top width (ft)         | 10600.00    | 400.00     | 3450.62     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.21      | Hydr. Depth (ft)       | 137.47      | 192.08     | 147.62      |
| Conv. Total (cfs)  | 546805700.0 | Conv. (cfs)            | 382993800.0 | 25112430.0 | 138699500.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.40     | 3534.71     |
| Min Ch El (ft)     | 572.99      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 19661.55    | 1128.46    | 7432.43     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 141.92      | 5.81       | 49.89       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1738.07\*

INPUT  
Description:

| Station Elevation Data |                | num= 35        |                | Sta Elev       |        | Sta Elev |             | Sta Elev |      |
|------------------------|----------------|----------------|----------------|----------------|--------|----------|-------------|----------|------|
| Sta                    | Elev           | Sta            | Elev           | Sta            | Elev   | Sta      | Elev        | Sta      | Elev |
| 0                      | 720            | 600            | 680            | 1000           | 676    | 1300     | 678         | 2000     | 667  |
| 2200                   | 670            | 2800           | 670            | 3800           | 650    | 4500     | 650         | 4600     | 640  |
| 4800                   | 640            | 5200           | 620            | 5900           | 614    | 7800     | 614         | 7900     | 615  |
| 8400                   | 615            | 8400           | 610            | 9200           | 610    | 9800     | 603         | 10000    | 600  |
| 10600                  | 600            | 10700          | 572.96         | 10800          | 572.96 | 11000    | 60012522.88 | 608.45   |      |
| 12827.45               | 609.1813169.74 | 626.2313233.55 | 635.9713366.98 | 653.16 13436.6 | 656.19 |          |             |          |      |
| 13761.48               | 662.59 13842.7 | 661.8814057.35 | 665.94 14254.6 | 671.414451.85  | 695    |          |             |          |      |

| Manning's n Values |       | num= 3 |       | Sta n Val |       | Sta n Val |       |
|--------------------|-------|--------|-------|-----------|-------|-----------|-------|
| Sta                | n Val | Sta    | n Val | Sta       | n Val | Sta       | n Val |
| 0                  | .15   | 10600  | .15   | 11000     | .15   |           |       |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76839.83   | 509822.20   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76839.83   | 509822.20   |
| Q Total (cfs)      | 86725.36    | Flow (cfs)             | 60725.37    | 3982.26    | 22017.74    |
| Top width (ft)     | 14451.85    | Top width (ft)         | 10600.00    | 400.00     | 3451.85     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.24      | Hydr. Depth (ft)       | 137.47      | 192.10     | 147.70      |
| Conv. Total (cfs)  | 546975200.0 | Conv. (cfs)            | 382993800.0 | 25116030.0 | 138865500.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.41     | 3535.99     |
| Min Ch El (ft)     | 572.96      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 19495.96    | 1119.72    | 7374.52     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 140.71      | 5.77       | 49.49       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1733.12\*

INPUT  
Description:

| Station Elevation Data |      | num= 35 |        | Sta Elev |        | Sta Elev |             | Sta Elev |      |
|------------------------|------|---------|--------|----------|--------|----------|-------------|----------|------|
| Sta                    | Elev | Sta     | Elev   | Sta      | Elev   | Sta      | Elev        | Sta      | Elev |
| 0                      | 720  | 600     | 680    | 1000     | 676    | 1300     | 678         | 2000     | 667  |
| 2200                   | 670  | 2800    | 670    | 3800     | 650    | 4500     | 650         | 4600     | 640  |
| 4800                   | 640  | 5200    | 620    | 5900     | 614    | 7800     | 614         | 7900     | 615  |
| 8400                   | 615  | 8400    | 610    | 9200     | 610    | 9800     | 603         | 10000    | 600  |
| 10600                  | 600  | 10700   | 572.94 | 10800    | 572.94 | 11000    | 60012523.42 | 608.42   |      |

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|          |                |                |                |                |       |
|----------|----------------|----------------|----------------|----------------|-------|
| 12828.1  | 609.1613170.51 | 625.8213234.35 | 635.6413367.83 | 653.0813437.47 | 656.1 |
| 13762.47 | 662.6513843.72 | 661.9314058.45 | 665.7914255.77 | 671.114453.09  | 695   |

Manning's n Values      num=      3

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

Bank Sta: Left    Right    Lengths: Left Channel    Right    Coeff Contr.    Expan.

|       |       |      |      |      |    |    |
|-------|-------|------|------|------|----|----|
| 10600 | 11000 | 4.95 | 4.95 | 4.95 | .1 | .3 |
|-------|-------|------|------|------|----|----|

CROSS SECTION OUTPUT    Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76844.84   | 510251.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76844.84   | 510251.30   |
| Q Total (cfs)      | 86724.92    | Flow (cfs)             | 60706.93    | 3981.43    | 22036.56    |
| Top width (ft)     | 14453.09    | Top width (ft)         | 10600.00    | 400.00     | 3453.09     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.26      | Hydr. Depth (ft)       | 137.47      | 192.11     | 147.77      |
| Conv. Total (cfs)  | 547138600.0 | Conv. (cfs)            | 382993800.0 | 25118430.0 | 139026400.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.42     | 3537.29     |
| Min Ch El (ft)     | 572.94      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 19330.36    | 1110.99    | 7316.56     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 139.51      | 5.72       | 49.10       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 1728.17\*

## INPUT

## Description:

| Station  | Elevation      | Data           | num=           | 35             |
|----------|----------------|----------------|----------------|----------------|
| Sta      | Elev           | Sta            | Elev           | Sta            |
| 0        | 720            | 600            | 680            | 1000           |
| 2200     | 670            | 2800           | 670            | 3800           |
| 4800     | 640            | 5200           | 620            | 5900           |
| 8400     | 615            | 8400           | 610            | 9200           |
| 10600    | 600            | 10700          | 572.91         | 10800          |
| 12828.76 | 609.1413171.29 | 625.413235.15  | 635.313368.68  | 653.13438.34   |
| 13763.46 | 662.7213844.73 | 661.9714059.54 | 665.6314256.93 | 670.8114454.32 |

Manning's n Values      num=      3

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

Bank Sta: Left    Right    Lengths: Left Channel    Right    Coeff Contr.    Expan.

|       |       |      |      |      |    |    |
|-------|-------|------|------|------|----|----|
| 10600 | 11000 | 4.95 | 4.95 | 4.95 | .1 | .3 |
|-------|-------|------|------|------|----|----|

## CROSS SECTION OUTPUT    Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76852.34   | 510691.20   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76852.34   | 510691.20   |
| Q Total (cfs)      | 86724.48    | Flow (cfs)             | 60687.80    | 3980.75    | 22055.93    |
| Top width (ft)     | 14454.32    | Top width (ft)         | 10600.00    | 400.00     | 3454.32     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.29      | Hydr. Depth (ft)       | 137.47      | 192.13     | 147.84      |
| Conv. Total (cfs)  | 547308200.0 | Conv. (cfs)            | 382993800.0 | 25122030.0 | 139192500.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.43     | 3538.57     |
| Min Ch El (ft)     | 572.91      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 19164.77    | 1102.26    | 7258.55     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 138.31      | 5.68       | 48.71       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 1723.22\*

## INPUT

## Description:

| Station  | Elevation      | Data           | num=           | 35             |
|----------|----------------|----------------|----------------|----------------|
| Sta      | Elev           | Sta            | Elev           | Sta            |
| 0        | 720            | 600            | 680            | 1000           |
| 2200     | 670            | 2800           | 670            | 3800           |
| 4800     | 640            | 5200           | 620            | 5900           |
| 8400     | 615            | 8400           | 610            | 9200           |
| 10600    | 600            | 10700          | 572.89         | 10800          |
| 12829.41 | 609.1213172.06 | 624.9813235.95 | 634.9713369.52 | 652.9213439.22 |
| 13764.44 | 662.7813845.75 | 662.0214060.63 | 665.4814258.09 | 670.5214455.56 |

Manning's n Values      num=      3

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

Bank Sta: Left    Right    Lengths: Left Channel    Right    Coeff Contr.    Expan.

|       |       |      |      |      |    |    |
|-------|-------|------|------|------|----|----|
| 10600 | 11000 | 4.95 | 4.95 | 4.95 | .1 | .3 |
|-------|-------|------|------|------|----|----|

## CROSS SECTION OUTPUT    Profile #Max WS

|                |        |            |         |         |          |
|----------------|--------|------------|---------|---------|----------|
| E.G. Elev (ft) | 775.20 | Element    | Left OB | Channel | Right OB |
| Vel Head (ft)  | 0.00   | wt. n-Val. | 0.150   | 0.150   | 0.150    |

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|--------------------|-------------|------------------------|-------------|------------|-------------|
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       |             |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76857.33   | 511129.50   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76857.33   | 511129.50   |
| Q Total (cfs)      | 86724.05    | Flow (cfs)             | 60668.93    | 3979.89    | 22075.23    |
| Top width (ft)     | 14455.56    | Top width (ft)         | 10600.00    | 400.00     | 3455.56     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.31      | Hydr. Depth (ft)       | 137.47      | 192.14     | 147.92      |
| Conv. Total (cfs)  | 547475800.0 | Conv. (cfs)            | 382993800.0 | 25124420.0 | 139357600.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.44     | 3539.87     |
| Min Ch El (ft)     | 572.89      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frcn Loss (ft)     | 0.00        | Cum Volume (acre-ft)   | 18999.18    | 1093.53    | 7200.49     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 137.10      | 5.63       | 48.32       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1718.27\*

### INPUT

**Description:**

| Station  | Elevation      | Sta            | Elev           | Sta            | Elev   | Sta   | Elev        | Sta    | Elev | Sta | Elev |
|----------|----------------|----------------|----------------|----------------|--------|-------|-------------|--------|------|-----|------|
| Sta 0    | 720            | 600            | 680            | 1000           | 676    | 1300  | 678         | 2000   | 667  |     |      |
| 2200     | 670            | 2800           | 670            | 3300           | 4500   | 650   | 64600       |        |      |     |      |
| 4800     | 640            | 5200           | 630            | 5900           | 614    | 7800  | 614         | 7900   | 615  |     |      |
| 8400     | 615            | 8400           | 610            | 9200           | 610    | 9800  | 603         | 10000  | 600  |     |      |
| 10600    | 600            | 10700          | 572.86         | 10800          | 572.86 | 11000 | 60012525.05 | 608.31 |      |     |      |
| 12830.07 | 609.113172.84  | 624.5613236.75 | 634.6313370.37 | 652.8413440.09 | 655.82 |       |             |        |      |     |      |
| 13765.43 | 662.8413846.77 | 662.0614061.73 | 665.3314259.26 | 670.2314456.79 | 695.95 |       |             |        |      |     |      |

|                    |       |        |       |       |       |
|--------------------|-------|--------|-------|-------|-------|
| Manning's n values |       | num= 3 |       |       |       |
| Sta                | n Val | Sta    | n Val | Sta   | n Val |
| 0                  | .15   | 10600  | .15   | 11000 | .15   |

|           |       |       |          |      |         |       |       |        |        |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  |       | .1     | .3     |

CROSS SECTION OUTPUT    Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB    | Channel    | Right OB    |
|--------------------|-------------|------------------------|------------|------------|-------------|
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150      | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95       | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00 | 76864.84   | 511560.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00 | 76864.84   | 511560.80   |
| Q Total (cfs)      | 86723.61    | Flow (cfs)             | 60650.26   | 3979.23    | 22094.12    |
| Top width (ft)     | 14456.79    | Top width (ft)         | 10600.00   | 400.00     | 3456.79     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04       | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.34      | Hydr. Depth (ft)       | 137.47     | 192.16     | 147.99      |
| Conv. Total (cfs)  | 547641500.0 | Conv. (cfs)            | 35293800.0 | 25128020.0 | 139519700.0 |
| Length wid. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96   | 405.45     | 3541.16     |
| Min Ch El (ft)     | 572.86      | Shear (lb/sq ft)       | 0.00       | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 18833.59   | 1084.79    | 7142.39     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 135.90     | 5.59       | 47.92       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1713.32\*

### INPUT

**Description:**

| Station Elevation Data |        |          | num= 35 |            |        |          |        |           |        |      |      |
|------------------------|--------|----------|---------|------------|--------|----------|--------|-----------|--------|------|------|
| Sta                    | Elev   | Sta      | Elev    | Sta        | Elev   | Sta      | Elev   | Sta       | Elev   | Sta  | Elev |
| 0                      | 720    | 600      | 680     | 1000       | 676    | 1300     | 678    | 2000      | 667    |      |      |
| 2200                   | 770    | 2800     | 670     | 3800       | 650    | 4500     | 650    | 4600      | 663    |      |      |
| 4000                   | 640    | 5200     | 690     | 610        | 7800   | 614      | 7900   | 614       | 7900   | 615  |      |
| 8400                   | 615    | 8400     | 610     | 9200       | 610    | 9800     | 603    | 10000     | 600    | 2000 |      |
| 10600                  | 600    | 10700    | 572.84  | 10800      | 572.84 | 11000    | 600    | 12525.6   | 608.27 |      |      |
| 12830.72               | 609.08 | 13173.62 | 624.15  | 1513237.55 | 634.31 | 33371.22 | 652.76 | 316440.96 | 655.73 |      |      |
| 13766.42               | 662.91 | 3847.79  | 662.11  | 14062.82   | 665.18 | 14260.42 | 669.93 | 144458.02 | 695    |      |      |

|           |          |       |       |       |       |
|-----------|----------|-------|-------|-------|-------|
| Manning's | n Values |       | num=  | 3     |       |
| Sta       | n Val    | Sta   | n Val | Sta   | n Val |
| 0         | .15      | 10600 | .15   | 11000 | .15   |

|           |       |       |          |      |         |       |       |        |        |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     |  | 775.20     | Element                | Left OB    | Channel   | Right OB   |
|--------------------|--|------------|------------------------|------------|-----------|------------|
| Vel Head (ft)      |  | 0.00       | Wt. n-Val.             | 0.150      | 0.150     | 0.150      |
| W.S. Elev (ft)     |  | 775.20     | Reach Len. (ft)        | 4.95       | 4.95      | 4.95       |
| Crit W.S. (ft)     |  |            | Flow Area (sq ft)      | 1457216.00 | 76869.83  | 512002.20  |
| E.G. Slope (ft/ft) |  | 0.000000   | Area (sq ft)           | 1457216.00 | 76869.83  | 512002.20  |
| Q Total (cfs)      |  | 86723.17   | Flow (cfs)             | 60631.23   | 3978.36   | 22113.58   |
| Top Width (ft)     |  | 14458.02   | Top Width (ft)         | 10600.00   | 400.00    | 3458.02    |
| Vel Total (ft/s)   |  | 0.04       | Avg. Vel. (ft/s)       | 0.04       | 0.05      | 0.04       |
| Max Chl Dpth (ft)  |  | 202.36     | Hydr. Depth (ft)       | 137.47     | 192.17    | 148.06     |
| Conv. Total (cfs)  |  | 54781060.0 | Conv. (cfs)            | 35299380.0 | 2613040.0 | 13968640.0 |
| Length Wtd. (ft)   |  | 4.95       | Wetted Per. (ft)       | 10662.96   | 405.46    | 3542.45    |
| Min Chl E1 (ft)    |  | 572.84     | Shear (lb/sq ft)       | 0.00       | 0.00      | 0.00       |
| Alpha              |  | 1.01       | Stream Power (lb/ft s) | 0.00       | 0.00      | 0.00       |
| Frctn Loss (ft)    |  | 0.00       | Cum Volume (acre-ft)   | 18668.00   | 1076.06   | 7084.23    |
| C & E Loss (ft)    |  |            | Cum SA (acres)         | 134.69     | 5.54      | 47.53      |



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Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1708.37\*

## INPUT

## Description:

| Station  | Elevation      | Data    | num=           | 35    | Elev           | Sta   | Elev           | Sta   | Elev   | Sta | Elev |
|----------|----------------|---------|----------------|-------|----------------|-------|----------------|-------|--------|-----|------|
| 0        | 720            | 600     | 680            | 1000  | 676            | 1300  | 678            | 2000  | 667    |     |      |
| 2200     | 670            | 2800    | 670            | 3800  | 650            | 4500  | 650            | 4600  | 640    |     |      |
| 4800     | 640            | 5200    | 620            | 5900  | 614            | 7800  | 614            | 7900  | 615    |     |      |
| 8400     | 615            | 8400    | 610            | 9200  | 610            | 9800  | 603            | 10000 | 600    |     |      |
| 10600    | 600            | 10700   | 572.81         | 10800 | 572.81         | 11000 | 60012526.14    |       | 608.23 |     |      |
| 12831.37 | 609.0713174.39 |         | 623.7413238.34 |       | 633.9713372.06 |       | 652.6813441.83 |       | 655.64 |     |      |
| 13767.41 | 662.96         | 13848.8 | 662.1514063.92 |       | 665.0214261.59 |       | 669.6414459.26 |       | 695    |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76877.34   | 512438.00   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76877.34   | 512438.00   |
| Q Total (cfs)      | 86722.73    | Flow (cfs)             | 60612.38    | 3977.69    | 22132.65    |
| Top width (ft)     | 14459.26    | Top width (ft)         | 10600.00    | 400.00     | 3459.26     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.39      | Hydr. Depth (ft)       | 137.47      | 192.19     | 148.14      |
| Conv. Total (cfs)  | 547978200.0 | Conv. (cfs)            | 382993800.0 | 25134010.0 | 139850400.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.47     | 3543.75     |
| Min Ch El (ft)     | 572.81      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 18502.40    | 1067.32    | 7026.02     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 133.49      | 5.49       | 47.14       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1703.42\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35    | Elev           | Sta   | Elev           | Sta     | Elev   |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|---------|--------|
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000    | 667    |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600    | 640    |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900    | 615    |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000   | 600    |
| 10600    | 600            | 10700 | 572.79         | 10800 | 572.79         | 11000 | 60012526.69    |         | 608.2  |
| 12832.03 | 609.0513175.17 |       | 623.3213239.14 |       | 633.6313372.91 |       | 652.6          | 13442.7 | 655.55 |
| 13768.4  | 663.0213849.82 |       | 662.1914065.01 |       | 664.8714262.75 |       | 669.3514460.49 |         | 695    |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76882.34   | 512869.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76882.34   | 512869.80   |
| Q Total (cfs)      | 86722.30    | Flow (cfs)             | 60593.87    | 3976.86    | 22151.57    |
| Top width (ft)     | 14460.49    | Top width (ft)         | 10600.00    | 400.00     | 3460.49     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.41      | Hydr. Depth (ft)       | 137.47      | 192.21     | 148.21      |
| Conv. Total (cfs)  | 548142900.0 | Conv. (cfs)            | 382993800.0 | 25136400.0 | 140012700.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.48     | 3545.05     |
| Min Ch El (ft)     | 572.79      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 18336.81    | 1058.58    | 6967.77     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 132.28      | 5.45       | 46.74       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1698.46\*

## INPUT

## Description:

| Station | Elevation | Data | num= | 35   | Elev | Sta  | Elev | Sta  | Elev |
|---------|-----------|------|------|------|------|------|------|------|------|
| 0       | 720       | 600  | 680  | 1000 | 676  | 1300 | 678  | 2000 | 667  |

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|--------------------------------------|----------------|------------------------|----------------|------------|----------------|--------|----------------|--------|-----|
| 2200                                 | 670            | 2800                   | 670            | 3800       | 650            | 4500   | 650            | 4600   | 640 |
| 4800                                 | 640            | 5200                   | 620            | 5900       | 614            | 7800   | 614            | 7900   | 615 |
| 8400                                 | 615            | 8400                   | 610            | 9200       | 610            | 9800   | 603            | 10000  | 600 |
| 10600                                | 600            | 10700                  | 572.77         | 10800      | 572.77         | 11000  | 60012527.23    | 608.16 |     |
| 12832.68                             | 609.0313175.94 |                        | 622.913239.94  |            | 633.313373.76  |        | 652.5213443.57 | 655.46 |     |
| 13769.38                             | 663.0913850.83 |                        | 662.24 14066.1 |            | 664.7214263.92 |        | 669.0614461.73 | 695    |     |
| Manning's n Values                   |                |                        |                |            |                |        |                |        |     |
| Sta                                  | n Val          | Sta                    | n Val          | Sta        | n Val          |        |                |        |     |
| 0                                    | .15            | 10600                  | .15            | 11000      | .15            |        |                |        |     |
| Bank Sta: Left                       | Right          | Lengths: Left          | Channel        | Right      | Coeff          | Contr. | Expan.         |        |     |
| 10600                                | 11000          | 4.95                   | 4.95           | 4.95       | .1             | .3     |                |        |     |
| CROSS SECTION OUTPUT Profile #Max WS |                |                        |                |            |                |        |                |        |     |
| E.G. Elev (ft)                       | 775.20         | Element                | Left OB        | Channel    | Right OB       |        |                |        |     |
| Vel Head (ft)                        | 0.00           | Wt. n-Val.             | 0.150          | 0.150      | 0.150          |        |                |        |     |
| W.S. Elev (ft)                       | 775.20         | Reach Len. (ft)        | 4.95           | 4.95       | 4.95           |        |                |        |     |
| Crit W.S. (ft)                       |                | Flow Area (sq ft)      | 1457216.00     | 76887.33   | 513307.20      |        |                |        |     |
| E.G. Slope (ft/ft)                   | 0.000000       | Area (sq ft)           | 1457216.00     | 76887.33   | 513307.20      |        |                |        |     |
| Q Total (cfs)                        | 86721.86       | Flow (cfs)             | 60575.11       | 3976.01    | 22170.75       |        |                |        |     |
| Top Width (ft)                       | 14461.73       | Top Width (ft)         | 10600.00       | 400.00     | 3461.73        |        |                |        |     |
| Vel Total (ft/s)                     | 0.04           | Avg. Vel. (ft/s)       | 0.04           | 0.05       | 0.04           |        |                |        |     |
| Max Chl Dpth (ft)                    | 202.43         | Hydr. Depth (ft)       | 137.47         | 192.22     | 148.28         |        |                |        |     |
| Conv. Total (cfs)                    | 548309900.0    | Conv. (cfs)            | 382993800.0    | 25138790.0 | 140177300.0    |        |                |        |     |
| Length wtd. (ft)                     | 4.95           | Wetted Per. (ft)       | 10662.96       | 405.49     | 3546.36        |        |                |        |     |
| Min Ch El (ft)                       | 572.77         | Shear (lb/sq ft)       | 0.00           | 0.00       | 0.00           |        |                |        |     |
| Alpha                                | 1.01           | Stream Power (lb/ft s) | 0.00           | 0.00       | 0.00           |        |                |        |     |
| Frctn Loss (ft)                      | 0.00           | Cum Volume (acre-ft)   | 18171.22       | 1049.85    | 6909.46        |        |                |        |     |
| C & E Loss (ft)                      |                | Cum SA (acres)         | 131.08         | 5.40       | 46.35          |        |                |        |     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1693.51\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35    |                |       |                |        |      |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|--------|------|
| Sta      | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev           | Sta    | Elev |
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000   | 667  |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600   | 640  |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900   | 615  |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000  | 600  |
| 10600    | 600            | 10700 | 572.74         | 10800 | 572.74         | 11000 | 60012527.78    | 608.12 |      |
| 12833.33 | 609.0113176.72 |       | 622.4913240.74 |       | 632.96 13374.6 |       | 652.4313444.44 | 655.37 |      |
| 13770.37 | 663.1513851.85 |       | 662.28 14067.2 |       | 664.5714265.08 |       | 668.7714462.96 | 695    |      |

| Manning's n Values |       |       |       |       |       |  |  |  |  |
|--------------------|-------|-------|-------|-------|-------|--|--|--|--|
| Sta                | n Val | Sta   | n Val | Sta   | n Val |  |  |  |  |
| 0                  | .15   | 10600 | .15   | 11000 | .15   |  |  |  |  |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 10600          | 11000 | 4.95          | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |  |  |  |  |
|--------------------|-------------|------------------------|-------------|------------|-------------|--|--|--|--|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |  |  |  |  |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |  |  |  |  |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |  |  |  |  |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76894.84   | 513747.20   |  |  |  |  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76894.84   | 513747.20   |  |  |  |  |
| Q Total (cfs)      | 86721.42    | Flow (cfs)             | 60556.06    | 3975.32    | 22190.04    |  |  |  |  |
| Top Width (ft)     | 14462.96    | Top Width (ft)         | 10600.00    | 400.00     | 3462.96     |  |  |  |  |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |  |  |  |  |
| Max Chl Dpth (ft)  | 202.46      | Hydr. Depth (ft)       | 137.47      | 192.24     | 148.35      |  |  |  |  |
| Conv. Total (cfs)  | 548479600.0 | Conv. (cfs)            | 382993800.0 | 25142390.0 | 140343500.0 |  |  |  |  |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.50     | 3547.65     |  |  |  |  |
| Min Ch El (ft)     | 572.74      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |  |  |  |  |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |  |  |  |  |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 18005.63    | 1041.11    | 6851.11     |  |  |  |  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 129.87      | 5.36       | 45.96       |  |  |  |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1688.56\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35    |                |       |                |        |      |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|--------|------|
| Sta      | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev           | Sta    | Elev |
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000   | 667  |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600   | 640  |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900   | 615  |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000  | 600  |
| 10600    | 600            | 10700 | 572.72         | 10800 | 572.72         | 11000 | 60012528.32    | 608.09 |      |
| 12833.99 | 608.99 13177.5 |       | 622.0713241.54 |       | 632.6313375.45 |       | 652.3513445.32 | 655.28 |      |
| 13771.36 | 663.2113852.87 |       | 662.3314068.29 |       | 664.4214266.24 |       | 668.47 14464.2 | 695    |      |

| Manning's n Values |       |       |       |       |       |  |  |  |  |
|--------------------|-------|-------|-------|-------|-------|--|--|--|--|
| Sta                | n Val | Sta   | n Val | Sta   | n Val |  |  |  |  |
| 0                  | .15   | 10600 | .15   | 11000 | .15   |  |  |  |  |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 10600          | 11000 | 4.95          | 4.95    | 4.95  | .1    | .3     |        |

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## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76899.84   | 514179.90   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76899.84   | 514179.90   |
| Q Total (cfs)      | 86720.98    | Flow (cfs)             | 60537.55    | 3974.49    | 22208.94    |
| Top width (ft)     | 14464.20    | Top width (ft)         | 10600.00    | 400.00     | 3464.20     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.48      | Hydr. Depth (ft)       | 137.47      | 192.25     | 148.43      |
| Conv. Total (cfs)  | 548644500.0 | Conv. (cfs)            | 382993800.0 | 25144790.0 | 140505900.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.51     | 3548.97     |
| Min Ch El (ft)     | 572.72      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 17840.04    | 1032.37    | 6792.70     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 128.67      | 5.31       | 45.56       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1683.61\*

## INPUT

## Description:

| Station Elevation Data |        |          | num=   | 35       |        |          |             |          |        |
|------------------------|--------|----------|--------|----------|--------|----------|-------------|----------|--------|
| Sta                    | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev        | Sta      | Elev   |
| 0                      | 720    | 600      | 680    | 1000     | 676    | 1300     | 678         | 2000     | 667    |
| 2200                   | 670    | 2800     | 670    | 3800     | 650    | 4500     | 650         | 4600     | 640    |
| 4800                   | 640    | 5200     | 620    | 5900     | 614    | 7800     | 614         | 7900     | 615    |
| 8400                   | 615    | 8400     | 610    | 9200     | 610    | 9800     | 603         | 10000    | 600    |
| 10600                  | 600    | 10700    | 572.69 | 10800    | 572.69 | 11000    | 60012528.87 | 608.05   |        |
| 12834.64               | 608.97 | 13178.27 | 621.65 | 13242.34 | 632.29 | 13376.3  | 652.27      | 13446.19 | 655.19 |
| 13772.35               | 663.27 | 13853.88 | 662.37 | 14069.38 | 664.26 | 14267.41 | 668.18      | 14465.43 | 695    |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76907.34   | 514623.60   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76907.34   | 514623.60   |
| Q Total (cfs)      | 86720.55    | Flow (cfs)             | 60518.35    | 3973.79    | 22228.40    |
| Top width (ft)     | 14465.43    | Top width (ft)         | 10600.00    | 400.00     | 3465.43     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.51      | Hydr. Depth (ft)       | 137.47      | 192.27     | 148.50      |
| Conv. Total (cfs)  | 548815800.0 | Conv. (cfs)            | 382993800.0 | 25148380.0 | 140673600.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.52     | 3550.27     |
| Min Ch El (ft)     | 572.69      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 17674.45    | 1023.63    | 6734.25     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 127.46      | 5.27       | 45.17       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1678.66\*

## INPUT

## Description:

| Station Elevation Data |        |          | num=   | 35       |        |          |             |          |       |
|------------------------|--------|----------|--------|----------|--------|----------|-------------|----------|-------|
| Sta                    | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev        | Sta      | Elev  |
| 0                      | 720    | 600      | 680    | 1000     | 676    | 1300     | 678         | 2000     | 667   |
| 2200                   | 670    | 2800     | 670    | 3800     | 650    | 4500     | 650         | 4600     | 640   |
| 4800                   | 640    | 5200     | 620    | 5900     | 614    | 7800     | 614         | 7900     | 615   |
| 8400                   | 615    | 8400     | 610    | 9200     | 610    | 9800     | 603         | 10000    | 600   |
| 10600                  | 600    | 10700    | 572.67 | 10800    | 572.67 | 11000    | 60012529.41 | 608.01   |       |
| 12835.29               | 608.95 | 13179.05 | 621.24 | 13243.14 | 631.96 | 13377.14 | 652.19      | 13447.06 | 655.1 |
| 13773.33               | 663.33 | 13854.9  | 662.42 | 14070.48 | 664.11 | 14268.57 | 667.89      | 14466.67 | 695   |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                   |             |            |             |
|--------------------|-------------|-------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element           | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.        | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)   | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft) | 1457216.00  | 76912.34   | 515061.60   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)      | 1457216.00  | 76912.34   | 515061.60   |
| Q Total (cfs)      | 86720.11    | Flow (cfs)        | 60499.61    | 3972.94    | 22247.56    |
| Top width (ft)     | 14466.67    | Top width (ft)    | 10600.00    | 400.00     | 3466.67     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)  | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.53      | Hydr. Depth (ft)  | 137.47      | 192.28     | 148.58      |
| Conv. Total (cfs)  | 548983000.0 | Conv. (cfs)       | 382993800.0 | 25150780.0 | 140838500.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)  | 10662.96    | 405.53     | 3551.58     |
| Min Ch El (ft)     | 572.67      | Shear (lb/sq ft)  | 0.00        | 0.00       | 0.00        |

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|                 |      |                        |          |         |         |
|-----------------|------|------------------------|----------|---------|---------|
| Alpha           | 1.01 | Stream Power (lb/ft s) | 0.00     | 0.00    | 0.00    |
| Frctn Loss (ft) | 0.00 | Cum Volume (acre-ft)   | 17508.85 | 1014.89 | 6675.74 |
| C & E Loss (ft) |      | Cum SA (acres)         | 126.26   | 5.22    | 44.78   |

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Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1673.71\*

## INPUT

## Description:

|          |                |       |                |                |
|----------|----------------|-------|----------------|----------------|
| Station  | Elevation      | Data  | num=           | 35             |
| Sta      | Elev           | Sta   | Elev           | Sta            |
| 0        | 720            | 600   | 680            | 1000           |
| 2200     | 670            | 2800  | 670            | 3800           |
| 4800     | 640            | 5200  | 620            | 5900           |
| 8400     | 615            | 8400  | 610            | 9200           |
| 10600    | 600            | 10700 | 572.64         | 10800          |
| 12835.95 | 608.9313179.82 |       | 620.8213243.94 | 631.6313377.99 |
| 13774.32 | 663.413855.92  |       | 662.4614071.57 | 663.9614269.74 |

## Manning's n Values

|     |       |       |       |
|-----|-------|-------|-------|
| Sta | n Val | Sta   | n Val |
| 0   | .15   | 10600 | .15   |

|           |       |       |          |      |         |       |       |        |        |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76919.83   | 515491.50   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76919.83   | 515491.50   |
| Q Total (cfs)      | 86719.67    | Flow (cfs)             | 60481.13    | 3972.30    | 22266.25    |
| Top width (ft)     | 14467.90    | Top width (ft)         | 10600.00    | 400.00     | 3467.90     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.56      | Hydr. Depth (ft)       | 137.47      | 192.30     | 148.65      |
| Conv. Total (cfs)  | 549148000.0 | Conv. (cfs)            | 382993800.0 | 25154360.0 | 140999900.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.54     | 3552.89     |
| Min Ch El (ft)     | 572.64      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 17343.26    | 1006.15    | 6617.19     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 125.06      | 5.18       | 44.38       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1668.76\*

## INPUT

## Description:

|          |                |       |                |                |
|----------|----------------|-------|----------------|----------------|
| Station  | Elevation      | Data  | num=           | 35             |
| Sta      | Elev           | Sta   | Elev           | Sta            |
| 0        | 720            | 600   | 680            | 1000           |
| 2200     | 670            | 2800  | 670            | 3800           |
| 4800     | 640            | 5200  | 620            | 5900           |
| 8400     | 615            | 8400  | 610            | 9200           |
| 10600    | 600            | 10700 | 572.62         | 11000          |
| 12836.6  | 608.9113180.6  |       | 620.4113244.74 | 631.2913378.84 |
| 13775.31 | 663.4613856.94 |       | 662.5114072.66 | 663.8114270.9  |

## Manning's n Values

|     |       |       |       |
|-----|-------|-------|-------|
| Sta | n Val | Sta   | n Val |
| 0   | .15   | 10600 | .15   |

|           |       |       |          |      |         |       |       |        |        |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76924.84   | 515932.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76924.84   | 515932.80   |
| Q Total (cfs)      | 86719.23    | Flow (cfs)             | 60462.24    | 3971.43    | 22285.56    |
| Top width (ft)     | 14469.14    | Top width (ft)         | 10600.00    | 400.00     | 3469.14     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.58      | Hydr. Depth (ft)       | 137.47      | 192.31     | 148.72      |
| Conv. Total (cfs)  | 549316800.0 | Conv. (cfs)            | 382993800.0 | 25156760.0 | 141166300.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.55     | 3554.20     |
| Min Ch El (ft)     | 572.62      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 17177.67    | 997.41     | 6558.58     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 123.85      | 5.13       | 43.99       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1663.81\*

## INPUT

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Description:  
 Station Elevation Data num= 35

| Sta      | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev   |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|--------|
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000  | 667    |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600  | 640    |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900  | 615    |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000 | 600    |
| 10600    | 600            | 10700 | 572.59         | 10800 | 572.59         | 11000 | 60012531.05    |       | 607.9  |
| 12837.25 | 608.8913181.38 |       | 619.9913245.53 |       | 630.9613379.68 |       | 651.9513449.67 |       | 654.83 |
| 13776.3  | 663.5213857.95 |       | 662.5514073.76 |       | 663.6514272.06 |       | 667.0114470.37 |       | 695    |

Manning's n Values num= 3

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 10600 11000 4.95 4.95 4.95 .1 .3

CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76932.33   | 516375.90   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76932.33   | 516375.90   |
| Q Total (cfs)      | 86718.80    | Flow (cfs)             | 60443.11    | 3970.74    | 22304.94    |
| Top width (ft)     | 14470.37    | Top width (ft)         | 10600.00    | 400.00     | 3470.37     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.61      | Hydr. Depth (ft)       | 137.47      | 192.33     | 148.80      |
| Conv. Total (cfs)  | 549487900.0 | Conv. (cfs)            | 382993800.0 | 25160350.0 | 141333700.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.56     | 3555.51     |
| Min Ch El (ft)     | 572.59      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 17012.08    | 988.67     | 6499.93     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 122.65      | 5.09       | 43.59       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 1658.86\*

## INPUT

## Description:

Station Elevation Data num= 35

| Sta      | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev   |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|--------|
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000  | 667    |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600  | 640    |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900  | 615    |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000 | 600    |
| 10600    | 600            | 10700 | 572.57         | 10800 | 572.57         | 11000 | 60012531.59    |       | 607.87 |
| 12837.91 | 608.8713182.15 |       | 619.5713246.33 |       | 630.6213380.53 |       | 651.8713450.54 |       | 654.73 |
| 13777.28 | 663.5813858.97 |       | 662.614074.85  |       | 663.514273.23  |       | 666.72 14471.6 |       | 695    |

Manning's n Values num= 3

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 10600 11000 4.95 4.95 4.95 .1 .3

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76937.34   | 516809.70   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76937.34   | 516809.70   |
| Q Total (cfs)      | 86718.36    | Flow (cfs)             | 60424.60    | 3969.91    | 22323.85    |
| Top width (ft)     | 14471.60    | Top width (ft)         | 10600.00    | 400.00     | 3471.60     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.63      | Hydr. Depth (ft)       | 137.47      | 192.34     | 148.87      |
| Conv. Total (cfs)  | 549653400.0 | Conv. (cfs)            | 382993800.0 | 25162750.0 | 141496900.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.57     | 3556.82     |
| Min Ch El (ft)     | 572.57      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 16846.49    | 979.93     | 6441.23     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 121.44      | 5.04       | 43.20       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 1653.91\*

## INPUT

## Description:

Station Elevation Data num= 35

| Sta      | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev   |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|--------|
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000  | 667    |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600  | 640    |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900  | 615    |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000 | 600    |
| 10600    | 600            | 10700 | 572.54         | 10800 | 572.54         | 11000 | 60012532.13    |       | 607.83 |
| 12838.56 | 608.8513182.93 |       | 619.1613247.13 |       | 630.2913381.38 |       | 651.7813451.42 |       | 654.64 |
| 13778.27 | 663.6413859.99 |       | 662.6414075.94 |       | 663.3514274.39 |       | 666.4314472.84 |       | 695    |

Manning's n Values num= 3

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

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Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 10600 11000 4.95 4.95 4.95 .1 .3

CROSS SECTION OUTPUT Profile #Max WS

|                    | Left OB     | Channel                | Right OB    |
|--------------------|-------------|------------------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | 0.150       |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        |
| Crit W.S. (ft)     | 86717.92    | Flow Area (sq ft)      | 1457216.00  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  |
| Q Total (cfs)      | 14472.84    | Flow (cfs)             | 60405.60    |
| Top width (ft)     | 202.66      | Top width (ft)         | 10600.00    |
| Vel Total (ft/s)   | 549823600.0 | Avg. Vel. (ft/s)       | 0.04        |
| Max Chl Dpth (ft)  | 4.95        | Hydr. Depth (ft)       | 137.47      |
| Conv. Total (cfs)  | 549823600.0 | Conv. (cfs)            | 382993800.0 |
| Length wtd. (ft)   | 572.54      | Wetted Per. (ft)       | 10662.96    |
| Min Ch El (ft)     | 1.01        | Shear (lb/sq ft)       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Stream Power (lb/ft s) | 0.00        |
| C & E Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 16680.89    |
|                    |             | Cum SA (acres)         | 120.24      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 1648.96\*

INPUT

Description:

| Station  | Elev   | Data    | num=   | 35       |
|----------|--------|---------|--------|----------|
| Sta      | Elev   | Sta     | Elev   | Sta      |
| 0        | 720    | 600     | 680    | 1000     |
| 2200     | 670    | 2800    | 670    | 3800     |
| 4800     | 640    | 5200    | 620    | 5900     |
| 8400     | 615    | 8400    | 610    | 9200     |
| 10600    | 600    | 10700   | 572.52 | 10800    |
| 12839.22 | 608.83 | 13183.7 | 618.74 | 13247.93 |
| 13779.26 | 663.7  | 13861   | 662.69 | 14077.04 |

Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 10600 11000 4.95 4.95 4.95 .1 .3

CROSS SECTION OUTPUT Profile #Max WS

|                    | Left OB     | Channel                | Right OB    |
|--------------------|-------------|------------------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | 0.150       |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        |
| Crit W.S. (ft)     | 86717.48    | Flow Area (sq ft)      | 1457216.00  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  |
| Q Total (cfs)      | 14474.07    | Flow (cfs)             | 60386.78    |
| Top width (ft)     | 0.04        | Top width (ft)         | 10600.00    |
| Vel Total (ft/s)   | 549992100.0 | Avg. Vel. (ft/s)       | 0.04        |
| Max Chl Dpth (ft)  | 4.95        | Hydr. Depth (ft)       | 137.47      |
| Conv. Total (cfs)  | 549992100.0 | Conv. (cfs)            | 382993800.0 |
| Length wtd. (ft)   | 572.52      | Wetted Per. (ft)       | 10662.96    |
| Min Ch El (ft)     | 1.01        | Shear (lb/sq ft)       | 0.00        |
| Alpha              | 0.00        | Stream Power (lb/ft s) | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 16515.30    |
| C & E Loss (ft)    | 0.00        | Cum SA (acres)         | 119.03      |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 1644.01\*

INPUT

Description:

| Station  | Elev   | Data     | num=   | 35       |
|----------|--------|----------|--------|----------|
| Sta      | Elev   | Sta      | Elev   | Sta      |
| 0        | 720    | 600      | 680    | 1000     |
| 2200     | 670    | 2800     | 670    | 3800     |
| 4800     | 640    | 5200     | 620    | 5900     |
| 8400     | 615    | 8400     | 610    | 9200     |
| 10600    | 600    | 10700    | 572.49 | 10800    |
| 12839.87 | 608.81 | 13184.48 | 618.32 | 13248.73 |
| 13780.25 | 663.77 | 13862.02 | 662.73 | 14078.13 |

Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 10600 11000 4.95 4.95 4.95 .1 .3

CROSS SECTION OUTPUT Profile #Max WS

|                    | Left OB     | Channel           | Right OB   |
|--------------------|-------------|-------------------|------------|
| E.G. Elev (ft)     | 775.20      | Element           | 0.150      |
| Vel Head (ft)      | 0.00        | wt. n-Val.        | 0.150      |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)   | 4.95       |
| Crit W.S. (ft)     | 86717.05    | Flow Area (sq ft) | 1457216.00 |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)      | 1457216.00 |
| Q Total (cfs)      | 14475.31    | Flow (cfs)        | 60367.71   |
| Top width (ft)     | 0.04        | Top width (ft)    | 10600.00   |
| Vel Total (ft/s)   | 549992100.0 | Avg. Vel. (ft/s)  | 0.04       |

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|                   |             |                        |              |            |             |        |
|-------------------|-------------|------------------------|--------------|------------|-------------|--------|
| Max Chl Dpth (ft) | 202.71      | Hydr. Depth (ft)       | TXU_Rev1.rep | 137.47     | 192.39      | 149.09 |
| Conv. Total (cfs) | 550163100.0 | Conv. (cfs)            | 382993800.0  | 25172320.0 | 141997000.0 |        |
| Length Wtd. (ft)  | 4.95        | Wetted Per. (ft)       | 10662.96     | 405.60     | 3560.78     |        |
| Min Ch El (ft)    | 572.49      | Shear (lb/sq ft)       | 0.00         | 0.00       | 0.00        |        |
| Alpha             | 1.01        | Stream Power (lb/ft s) | 0.00         | 0.00       | 0.00        |        |
| Frctn Loss (ft)   | 0.00        | Cum Volume (acre-ft)   | 16349.71     | 953.69     | 6264.81     |        |
| C & E Loss (ft)   |             | Cum SA (acres)         | 117.83       | 4.90       | 42.01       |        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1639.06\*

## INPUT

## Description:

|          |                |       |                |                |
|----------|----------------|-------|----------------|----------------|
| Station  | Elevation      | Data  | num=           | 35             |
| Sta      | Elev           | Sta   | Elev           | Sta            |
| 0        | 720            | 600   | 680            | 1000           |
| 2200     | 670            | 2800  | 670            | 3800           |
| 4800     | 640            | 5200  | 620            | 5900           |
| 8400     | 615            | 8400  | 610            | 9200           |
| 10600    | 600            | 10700 | 572.47         | 10800          |
| 12840.52 | 608.7913185.26 |       | 617.9113249.53 | 629.2913383.92 |
| 13781.23 | 663.8313863.04 |       | 662.7814079.22 | 662.8914277.88 |

|                    |       |       |
|--------------------|-------|-------|
| Manning's n Values | num=  | 3     |
| Sta                | n Val | Sta   |
| 0                  | .15   | 10600 |
|                    |       | 11000 |

|                |       |               |         |       |              |        |
|----------------|-------|---------------|---------|-------|--------------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff Contr. | Expan. |
| 10600          | 11000 | 4.95          | 4.95    | 4.95  | .1           | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76962.34   | 518567.20   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76962.34   | 518567.20   |
| Q Total (cfs)      | 86716.61    | Flow (cfs)             | 60349.36    | 3966.85    | 22400.40    |
| Top Width (ft)     | 14476.54    | Top Width (ft)         | 10600.00    | 400.00     | 3476.54     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.73      | Hydr. Depth (ft)       | 137.47      | 192.41     | 149.16      |
| Conv. Total (cfs)  | 550327600.0 | Conv. (cfs)            | 382993800.0 | 25174720.0 | 142159200.0 |
| Length Wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.61     | 3562.10     |
| Min Ch El (ft)     | 572.47      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 16184.12    | 944.95     | 6205.91     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 116.62      | 4.86       | 41.62       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1634.11\*

## INPUT

## Description:

|          |                |       |                |                |
|----------|----------------|-------|----------------|----------------|
| Station  | Elevation      | Data  | num=           | 35             |
| Sta      | Elev           | Sta   | Elev           | Sta            |
| 0        | 720            | 600   | 680            | 1000           |
| 2200     | 670            | 2800  | 670            | 3800           |
| 4800     | 640            | 5200  | 620            | 5900           |
| 8400     | 615            | 8400  | 610            | 9200           |
| 10600    | 600            | 10700 | 572.44         | 10800          |
| 12841.18 | 608.7713186.03 |       | 617.4913250.33 | 628.9513384.76 |
| 13782.22 | 663.8913864.05 |       | 662.8214080.32 | 662.7414279.05 |

|                    |       |       |
|--------------------|-------|-------|
| Manning's n Values | num=  | 3     |
| Sta                | n Val | Sta   |
| 0                  | .15   | 10600 |
|                    |       | 11000 |

|                |       |               |         |       |              |        |
|----------------|-------|---------------|---------|-------|--------------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff Contr. | Expan. |
| 10600          | 11000 | 4.95          | 4.95    | 4.95  | .1           | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76969.84   | 519011.40   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76969.84   | 519011.40   |
| Q Total (cfs)      | 86716.18    | Flow (cfs)             | 60330.29    | 3966.16    | 22419.73    |
| Top Width (ft)     | 14477.78    | Top Width (ft)         | 10600.00    | 400.00     | 3477.78     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.76      | Hydr. Depth (ft)       | 137.47      | 192.42     | 149.24      |
| Conv. Total (cfs)  | 550498800.0 | Conv. (cfs)            | 382993800.0 | 25178310.0 | 142326800.0 |
| Length Wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.62     | 3563.43     |
| Min Ch El (ft)     | 572.44      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 16018.52    | 936.20     | 6146.96     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 115.42      | 4.81       | 41.22       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

TXU\_Rev1.rep

RIVER: SQUAW CREEK  
REACH: SC

RS: 1629.16\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35    | Elev           | Sta   | Elev           | Sta   | Elev   | Sta | Elev |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|--------|-----|------|
| Sta      | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev   | Sta | Elev |
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000  | 667    |     |      |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600  | 640    |     |      |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900  | 615    |     |      |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000 | 600    |     |      |
| 10600    | 600            | 10700 | 572.42         | 10800 | 572.42         | 11000 | 60012534.86    |       | 607.64 |     |      |
| 12841.83 | 608.7513186.81 |       | 617.0813251.13 |       | 628.6213385.61 |       | 651.3813455.77 |       | 654.19 |     |      |
| 13783.21 | 663.9513865.07 |       | 662.8714081.41 |       | 662.5914280.21 |       | 664.9714479.01 |       | 695    |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
| 10600     | 11000 | 4.95  | 4.95     | 4.95         | .1    | .3    |        |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76974.84   | 519450.50   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76974.84   | 519450.50   |
| Q Total (cfs)      | 86715.74    | Flow (cfs)             | 60311.59    | 3965.31    | 22438.85    |
| Top width (ft)     | 14479.01    | Top width (ft)         | 10600.00    | 400.00     | 3479.01     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.78      | Hydr. Depth (ft)       | 137.47      | 192.44     | 149.31      |
| Conv. Total (cfs)  | 550666800.0 | Conv. (cfs)            | 382993800.0 | 25180700.0 | 142492300.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.63     | 3564.75     |
| Min Ch El (ft)     | 572.42      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 15852.93    | 927.46     | 6087.96     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 114.21      | 4.77       | 40.83       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1624.21\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35      | Elev           | Sta   | Elev           | Sta     | Elev   | Sta | Elev |
|----------|----------------|-------|----------------|---------|----------------|-------|----------------|---------|--------|-----|------|
| Sta      | Elev           | Sta   | Elev           | Sta     | Elev           | Sta   | Elev           | Sta     | Elev   | Sta | Elev |
| 0        | 720            | 600   | 680            | 1000    | 676            | 1300  | 678            | 2000    | 667    |     |      |
| 2200     | 670            | 2800  | 670            | 3800    | 650            | 4500  | 650            | 4600    | 640    |     |      |
| 4800     | 640            | 5200  | 620            | 5900    | 614            | 7800  | 614            | 7900    | 615    |     |      |
| 8400     | 615            | 8400  | 610            | 9200    | 610            | 9800  | 603            | 10000   | 600    |     |      |
| 10600    | 600            | 10700 | 572.4          | 10800   | 572.4          | 11000 | 600            | 12535.4 | 607.61 |     |      |
| 12842.48 | 608.7313187.58 |       | 616.6613251.92 |         | 628.2913386.46 |       | 651.313456.64  |         | 654.1  |     |      |
| 13784.2  | 664.0113866.08 |       | 662.91         | 14082.5 | 662.4414281.38 |       | 664.6714480.25 |         | 695    |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10600 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
| 10600     | 11000 | 4.95  | 4.95     | 4.95         | .1    | .3    |        |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76979.83   | 519886.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76979.83   | 519886.80   |
| Q Total (cfs)      | 86715.30    | Flow (cfs)             | 60293.06    | 3964.47    | 22457.77    |
| Top width (ft)     | 14480.25    | Top width (ft)         | 10600.00    | 400.00     | 3480.25     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.80      | Hydr. Depth (ft)       | 137.47      | 192.45     | 149.38      |
| Conv. Total (cfs)  | 550833200.0 | Conv. (cfs)            | 382993800.0 | 25183090.0 | 142656300.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.63     | 3566.08     |
| Min Ch El (ft)     | 572.40      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 15687.34    | 918.71     | 6028.90     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 113.01      | 4.72       | 40.43       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1619.25\*

## INPUT

## Description:

| Station  | Elevation      | Data    | num=           | 35      | Elev           | Sta     | Elev           | Sta   | Elev   | Sta | Elev |
|----------|----------------|---------|----------------|---------|----------------|---------|----------------|-------|--------|-----|------|
| Sta      | Elev           | Sta     | Elev           | Sta     | Elev           | Sta     | Elev           | Sta   | Elev   | Sta | Elev |
| 0        | 720            | 600     | 680            | 1000    | 676            | 1300    | 678            | 2000  | 667    |     |      |
| 2200     | 670            | 2800    | 670            | 3800    | 650            | 4500    | 650            | 4600  | 640    |     |      |
| 4800     | 640            | 5200    | 620            | 5900    | 614            | 7800    | 614            | 7900  | 615    |     |      |
| 8400     | 615            | 8400    | 610            | 9200    | 610            | 9800    | 603            | 10000 | 600    |     |      |
| 10600    | 600            | 10700   | 572.37         | 10800   | 572.37         | 11000   | 60012535.95    |       | 607.57 |     |      |
| 12843.14 | 608.7113188.36 |         | 616.2413252.72 |         | 627.95         | 13387.3 | 651.2213457.52 |       | 654.01 |     |      |
| 13785.19 | 664.07         | 13867.1 | 662.96         | 14083.6 | 662.2814282.54 |         | 664.3814481.48 |       | 695    |     |      |

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Manning's n Values num= 3  
Sta n Val Sta n Val  
0 .15 10600 .15 11000 .15

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
10600 11000 4.95 4.95 4.95 .1 .3

CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76987.34   | 520331.40   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76987.34   | 520331.40   |
| Q Total (cfs)      | 86714.86    | Flow (cfs)             | 60273.98    | 3963.78    | 22477.10    |
| Top width (ft)     | 14481.48    | Top width (ft)         | 10600.00    | 400.00     | 3481.48     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.83      | Hydr. Depth (ft)       | 137.47      | 192.47     | 149.46      |
| Conv. Total (cfs)  | 551004700.0 | Conv. (cfs)            | 382993800.0 | 25186680.0 | 142824300.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.65     | 3567.41     |
| Min Ch El (ft)     | 572.37      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 15521.75    | 909.96     | 5969.80     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 111.81      | 4.68       | 40.04       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1614.30\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=   | 35       |        |          |             |          |        |  |
|----------|-----------|----------|--------|----------|--------|----------|-------------|----------|--------|--|
| Sta      | Elev      | Sta      | Elev   | Sta      | Elev   | Sta      | Elev        | Sta      | Elev   |  |
| 0        | 720       | 600      | 680    | 1000     | 676    | 1300     | 678         | 2000     | 667    |  |
| 2200     | 670       | 2800     | 670    | 3800     | 650    | 4500     | 650         | 4600     | 640    |  |
| 4800     | 640       | 5200     | 620    | 5900     | 614    | 7800     | 614         | 7900     | 615    |  |
| 8400     | 615       | 8400     | 610    | 9200     | 610    | 9800     | 603         | 10000    | 600    |  |
| 10600    | 600       | 10700    | 572.35 | 10800    | 572.35 | 11000    | 60012536.49 |          | 607.53 |  |
| 12843.79 | 608.71    | 13189.14 | 615.83 | 13253.52 | 627.62 | 13388.15 | 651.14      | 13458.39 | 653.92 |  |
| 13786.17 | 664.14    | 13868.12 | 663.14 | 14084.69 | 662.13 | 14283.7  | 664.09      | 14482.72 | 695    |  |

Manning's n Values num= 3  
Sta n Val Sta n Val  
0 .15 10600 .15 11000 .15

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
10600 11000 4.95 4.95 4.95 .1 .3

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 76992.34   | 520767.90   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76992.34   | 520767.90   |
| Q Total (cfs)      | 86714.43    | Flow (cfs)             | 60255.48    | 3962.94    | 22496.01    |
| Top width (ft)     | 14482.72    | Top width (ft)         | 10600.00    | 400.00     | 3482.72     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.85      | Hydr. Depth (ft)       | 137.47      | 192.48     | 149.53      |
| Conv. Total (cfs)  | 551171200.0 | Conv. (cfs)            | 382993800.0 | 25189080.0 | 142988400.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.65     | 3568.74     |
| Min Ch El (ft)     | 572.35      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 15356.15    | 901.21     | 5910.65     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 110.60      | 4.63       | 39.64       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1609.35\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=   | 35       |        |          |             |          |        |  |
|----------|-----------|----------|--------|----------|--------|----------|-------------|----------|--------|--|
| Sta      | Elev      | Sta      | Elev   | Sta      | Elev   | Sta      | Elev        | Sta      | Elev   |  |
| 0        | 720       | 600      | 680    | 1000     | 676    | 1300     | 678         | 2000     | 667    |  |
| 2200     | 670       | 2800     | 670    | 3800     | 650    | 4500     | 650         | 4600     | 640    |  |
| 4800     | 640       | 5200     | 620    | 5900     | 614    | 7800     | 614         | 7900     | 615    |  |
| 8400     | 615       | 8400     | 610    | 9200     | 610    | 9800     | 603         | 10000    | 600    |  |
| 10600    | 600       | 10700    | 572.32 | 10800    | 572.32 | 11000    | 60012537.04 |          | 607.5  |  |
| 12844.44 | 608.68    | 13189.91 | 615.41 | 13254.32 | 627.28 | 13389    | 651.05      | 13459.26 | 653.83 |  |
| 13787.16 | 664.21    | 13869.14 | 663.05 | 14085.79 | 661.98 | 14284.87 | 663.81      | 14483.95 | 695    |  |

Manning's n Values num= 3  
Sta n Val Sta n Val  
0 .15 10600 .15 11000 .15

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
10600 11000 4.95 4.95 4.95 .1 .3

## CROSS SECTION OUTPUT Profile #Max WS

|                |        |                   |            |          |           |
|----------------|--------|-------------------|------------|----------|-----------|
| E.G. Elev (ft) | 775.20 | Element           | Left OB    | Channel  | Right OB  |
| Vel Head (ft)  | 0.00   | wt. n-Val.        | 0.150      | 0.150    | 0.150     |
| W.S. Elev (ft) | 775.20 | Reach Len. (ft)   | 4.95       | 4.95     | 4.95      |
| Crit W.S. (ft) |        | Flow Area (sq ft) | 1457216.00 | 76999.84 | 521202.70 |

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|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 76999.84   | 521202.70   |
| Q Total (cfs)      | 86713.99    | Flow (cfs)             | 60236.91    | 3962.28    | 22514.80    |
| Top width (ft)     | 14483.95    | Top width (ft)         | 10600.00    | 400.00     | 3483.95     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.88      | Hydr. Depth (ft)       | 137.47      | 192.50     | 149.60      |
| Conv. Total (cfs)  | 551338400.0 | Conv. (cfs)            | 382993800.0 | 25192660.0 | 143151900.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.67     | 3570.07     |
| Min Ch El (ft)     | 572.32      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 15190.56    | 892.46     | 5851.44     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 109.40      | 4.59       | 39.25       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 1604.40\*

## INPUT

## Description:

|          |                |       |                |                |       |       |                |        |      |
|----------|----------------|-------|----------------|----------------|-------|-------|----------------|--------|------|
| Station  | Elevation      | Data  | num=           | 35             |       |       |                |        |      |
| Sta      | Elev           | Sta   | Elev           | Sta            | Elev  | Sta   | Elev           | Sta    | Elev |
| 0        | 720            | 600   | 680            | 1000           | 676   | 1300  | 678            | 2000   | 667  |
| 2200     | 670            | 2800  | 670            | 3800           | 650   | 4500  | 650            | 4600   | 640  |
| 4800     | 640            | 5200  | 620            | 5900           | 614   | 7800  | 614            | 7900   | 615  |
| 8400     | 615            | 8400  | 610            | 9200           | 610   | 9800  | 603            | 10000  | 600  |
| 10600    | 600            | 10700 | 572.3          | 10800          | 572.3 | 11000 | 60012537.58    | 607.46 |      |
| 12845.1  | 608.6613190.69 |       | 614.9913255.12 | 626.9513389.84 |       |       | 650.9713460.13 | 653.74 |      |
| 13788.15 | 664.2613870.15 |       | 663.0914086.88 | 661.8314286.03 |       |       | 663.5114485.19 | 695    |      |

## Manning's n Values

|     |       |       |       |
|-----|-------|-------|-------|
| Sta | n Val | Sta   | n Val |
| 0   | .15   | 10600 | .15   |

|           |       |       |          |      |         |       |       |        |        |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 77004.84   | 521647.00   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 77004.84   | 521647.00   |
| Q Total (cfs)      | 86713.55    | Flow (cfs)             | 60218.04    | 3961.41    | 22534.10    |
| Top width (ft)     | 14485.19    | Top width (ft)         | 10600.00    | 400.00     | 3485.19     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.90      | Hydr. Depth (ft)       | 137.47      | 192.51     | 149.68      |
| Conv. Total (cfs)  | 551508300.0 | Conv. (cfs)            | 382993800.0 | 25195050.0 | 143319500.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.67     | 3571.41     |
| Min Ch El (ft)     | 572.30      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 15024.97    | 883.71     | 5792.19     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 108.19      | 4.54       | 38.85       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 1599.45\*

## INPUT

## Description:

|          |                |       |                |                |         |       |                |        |        |
|----------|----------------|-------|----------------|----------------|---------|-------|----------------|--------|--------|
| Station  | Elevation      | Data  | num=           | 35             |         |       |                |        |        |
| Sta      | Elev           | Sta   | Elev           | Sta            | Elev    | Sta   | Elev           | Sta    | Elev   |
| 0        | 720            | 600   | 680            | 1000           | 676     | 1300  | 678            | 2000   | 667    |
| 2200     | 670            | 2800  | 670            | 3800           | 650     | 4500  | 650            | 4600   | 640    |
| 4800     | 640            | 5200  | 620            | 5900           | 614     | 7800  | 614            | 7900   | 615    |
| 8400     | 615            | 8400  | 610            | 9200           | 610     | 9800  | 603            | 10000  | 600    |
| 10600    | 600            | 10700 | 572.27         | 10800          | 572.27  | 11000 | 60012538.13    | 607.42 |        |
| 12845.75 | 608.6413191.46 |       | 614.5813255.92 | 626.6213390.69 |         |       | 650.89         | 13461  | 653.65 |
| 13789.14 | 664.3213871.17 |       | 663.1314087.97 | 661.67         | 14287.2 |       | 663.2114486.42 | 695    |        |

## Manning's n Values

|     |       |       |       |
|-----|-------|-------|-------|
| Sta | n Val | Sta   | n Val |
| 0   | .15   | 10600 | .15   |

|           |       |       |          |      |         |       |       |        |        |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 77012.33   | 522092.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 77012.33   | 522092.80   |
| Q Total (cfs)      | 86713.12    | Flow (cfs)             | 60198.96    | 3960.72    | 22553.45    |
| Top width (ft)     | 14486.42    | Top width (ft)         | 10600.00    | 400.00     | 3486.42     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.93      | Hydr. Depth (ft)       | 137.47      | 192.53     | 149.75      |
| Conv. Total (cfs)  | 551680400.0 | Conv. (cfs)            | 382993800.0 | 25198640.0 | 143488000.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.69     | 3572.74     |
| Min Ch El (ft)     | 572.27      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 14859.38    | 874.96     | 5732.89     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 106.99      | 4.49       | 38.45       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

TXU\_Rev1.rep

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1594.50\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35    | Elev           | Sta   | Elev           | Sta   | Elev   | Sta | Elev | Sta | Elev |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|--------|-----|------|-----|------|
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000  | 667    |     |      |     |      |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600  | 640    |     |      |     |      |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900  | 615    |     |      |     |      |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000 | 600    |     |      |     |      |
| 10600    | 600            | 10700 | 572.25         | 10800 | 572.25         | 11000 | 60012538.67    |       | 607.39 |     |      |     |      |
| 12846.41 | 608.6213192.24 |       | 614.1613256.72 |       | 626.2813391.53 |       | 650.8113461.87 |       | 653.55 |     |      |     |      |
| 13790.12 | 664.3813872.19 |       | 663.1814089.07 |       | 661.5214288.36 |       | 662.9214487.65 |       | 695    |     |      |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 77017.34   | 522528.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 77017.34   | 522528.80   |
| Q Total (cfs)      | 86712.69    | Flow (cfs)             | 60180.50    | 3959.88    | 22572.30    |
| Top width (ft)     | 14487.65    | Top width (ft)         | 10600.00    | 400.00     | 3487.65     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.95      | Hydr. Depth (ft)       | 137.47      | 192.54     | 149.82      |
| Conv. Total (cfs)  | 551846800.0 | Conv. (cfs)            | 382993800.0 | 25201030.0 | 143652000.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.69     | 3574.08     |
| Min Ch El (ft)     | 572.25      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum volume (acre-ft)   | 14693.78    | 866.21     | 5673.53     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 105.78      | 4.45       | 38.06       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1589.55\*

## INPUT

## Description:

| Station  | Elevation     | Data  | num=           | 35    | Elev           | Sta   | Elev           | Sta   | Elev   | Sta | Elev |
|----------|---------------|-------|----------------|-------|----------------|-------|----------------|-------|--------|-----|------|
| 0        | 720           | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000  | 667    |     |      |
| 2200     | 670           | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600  | 640    |     |      |
| 4800     | 640           | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900  | 615    |     |      |
| 8400     | 615           | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000 | 600    |     |      |
| 10600    | 600           | 10700 | 572.22         | 10800 | 572.22         | 11000 | 60012539.21    |       | 607.35 |     |      |
| 12847.06 | 608.613193.02 |       | 613.7513257.52 |       | 625.9513392.38 |       | 650.7313462.75 |       | 653.46 |     |      |
| 13791.11 | 664.4413873.2 |       | 663.2214090.16 |       | 661.3714289.52 |       | 662.6314488.89 |       | 695    |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 77024.84   | 522971.70   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 77024.84   | 522971.70   |
| Q Total (cfs)      | 86712.25    | Flow (cfs)             | 60161.60    | 3959.20    | 22591.45    |
| Top width (ft)     | 14488.89    | Top width (ft)         | 10600.00    | 400.00     | 3488.89     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 202.98      | Hydr. Depth (ft)       | 137.47      | 192.56     | 149.90      |
| Conv. Total (cfs)  | 552017400.0 | Conv. (cfs)            | 382993800.0 | 25204620.0 | 143819000.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.71     | 3575.42     |
| Min Ch El (ft)     | 572.22      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum volume (acre-ft)   | 14528.19    | 857.46     | 5614.13     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 104.58      | 4.40       | 37.66       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1584.60\*

## INPUT

## Description:

| Station | Elevation | Data | num= | 35   | Elev | Sta  | Elev | Sta  | Elev |
|---------|-----------|------|------|------|------|------|------|------|------|
| 0       | 720       | 600  | 680  | 1000 | 676  | 1300 | 678  | 2000 | 667  |
| 2200    | 670       | 2800 | 670  | 3800 | 650  | 4500 | 650  | 4600 | 640  |
| 4800    | 640       | 5200 | 620  | 5900 | 614  | 7800 | 614  | 7900 | 615  |

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|                                      |                |                        |                |                |                |        |             |        |        |
|--------------------------------------|----------------|------------------------|----------------|----------------|----------------|--------|-------------|--------|--------|
| TXU_Rev1.rep                         |                |                        |                |                |                |        |             |        |        |
| 8400                                 | 615            | 8400                   | 610            | 9200           | 610            | 9800   | 603         | 10000  | 600    |
| 10600                                | 600            | 10700                  | 572.2          | 10800          | 572.2          | 11000  | 60012539.76 | 607.31 |        |
| 12847.71                             | 608.5813193.79 |                        | 613.3313258.32 | 625.6113393.23 | 650.6513463.62 | 653.37 |             |        |        |
| 13792.1                              | 664.5113874.22 |                        | 663.2714091.25 | 661.2214290.69 | 662.3414490.12 | 695    |             |        |        |
| Manning's n Values                   |                |                        |                |                |                |        |             |        |        |
| Sta                                  | n Val          | Sta                    | n Val          | Sta            | n Val          |        |             |        |        |
| 0                                    | .15            | 10600                  | .15            | 11000          | .15            |        |             |        |        |
| Bank Sta:                            | Left           | Right                  | Lengths:       | Left           | Channel        | Right  | Coeff       | Contr. | Expan. |
|                                      | 10600          | 11000                  |                | 4.95           | 4.95           | 4.95   | .1          | .3     |        |
| CROSS SECTION OUTPUT Profile #Max WS |                |                        |                |                |                |        |             |        |        |
| E.G. Elev (ft)                       | 775.20         | Element                | Left OB        | Channel        | Right OB       |        |             |        |        |
| Vel Head (ft)                        | 0.00           | Wt. n-Val.             | 0.150          | 0.150          | 0.150          |        |             |        |        |
| W.S. Elev (ft)                       | 775.20         | Reach Len. (ft)        | 4.95           | 4.95           | 4.95           |        |             |        |        |
| Crit W.S. (ft)                       |                | Flow Area (sq ft)      | 1457216.00     | 77029.83       | 523413.50      |        |             |        |        |
| E.G. Slope (ft/ft)                   | 0.000000       | Area (sq ft)           | 1457216.00     | 77029.83       | 523413.50      |        |             |        |        |
| Q Total (cfs)                        | 86711.81       | Flow (cfs)             | 60142.88       | 3958.35        | 22610.59       |        |             |        |        |
| Top width (ft)                       | 14490.12       | Top width (ft)         | 10600.00       | 400.00         | 3490.12        |        |             |        |        |
| Vel Total (ft/s)                     | 0.04           | Avg. Vel. (ft/s)       | 0.04           | 0.05           | 0.04           |        |             |        |        |
| Max Chl Dpth (ft)                    | 203.00         | Hydr. Depth (ft)       | 137.47         | 192.57         | 149.97         |        |             |        |        |
| Conv. Total (cfs)                    | 552186400.0    | Conv. (cfs)            | 382993800.0    | 25207010.0     | 143985700.0    |        |             |        |        |
| Length wtd. (ft)                     | 4.95           | Wetted Per. (ft)       | 10662.96       | 405.72         | 3576.75        |        |             |        |        |
| Min Ch El (ft)                       | 572.20         | Shear (lb/sq ft)       | 0.00           | 0.00           | 0.00           |        |             |        |        |
| Alpha                                | 1.01           | Stream Power (lb/ft s) | 0.00           | 0.00           | 0.00           |        |             |        |        |
| Frctn Loss (ft)                      | 0.00           | Cum Volume (acre-ft)   | 14362.60       | 848.70         | 5554.68        |        |             |        |        |
| C & E Loss (ft)                      |                | Cum SA (acres)         | 103.37         | 4.36           | 37.27          |        |             |        |        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1579.65\*

## INPUT

## Description:

|                        |                |       |                |                |                |        |      |         |        |
|------------------------|----------------|-------|----------------|----------------|----------------|--------|------|---------|--------|
| Station Elevation Data |                |       |                |                |                |        |      |         |        |
| Sta                    | Elev           | Sta   | Elev           | Sta            | Elev           | Sta    | Elev | Sta     | Elev   |
| 0                      | 720            | 600   | 680            | 1000           | 676            | 1300   | 678  | 2000    | 667    |
| 2200                   | 670            | 2800  | 670            | 3800           | 650            | 4500   | 650  | 4600    | 640    |
| 4800                   | 640            | 5200  | 620            | 5900           | 614            | 7800   | 614  | 7900    | 615    |
| 8400                   | 615            | 8400  | 610            | 9200           | 610            | 9800   | 603  | 10000   | 600    |
| 10600                  | 600            | 10700 | 572.17         | 10800          | 572.17         | 11000  | 600  | 12540.3 | 607.28 |
| 12848.37               | 608.5613194.57 |       | 612.9113259.11 | 625.2813394.07 | 650.5713464.49 | 653.28 |      |         |        |
| 13793.09               | 664.5713875.24 |       | 663.3114092.35 | 661.0714291.85 | 662.0514491.36 | 695    |      |         |        |

## Manning's n Values

|     |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|
| Sta | n Val | Sta   | n Val | Sta   | n Val |
| 0   | .15   | 10600 | .15   | 11000 | .15   |

|           |       |       |          |      |         |       |       |        |        |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |  |  |  |  |
|--------------------|-------------|------------------------|-------------|------------|-------------|--|--|--|--|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |  |  |  |  |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |  |  |  |  |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |  |  |  |  |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 77037.34   | 523849.30   |  |  |  |  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 77037.34   | 523849.30   |  |  |  |  |
| Q Total (cfs)      | 86711.38    | Flow (cfs)             | 60124.38    | 3957.69    | 22629.32    |  |  |  |  |
| Top width (ft)     | 14491.36    | Top width (ft)         | 10600.00    | 400.00     | 3491.36     |  |  |  |  |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |  |  |  |  |
| Max Chl Dpth (ft)  | 203.03      | Hydr. Depth (ft)       | 137.47      | 192.59     | 150.04      |  |  |  |  |
| Conv. Total (cfs)  | 552353700.0 | Conv. (cfs)            | 382993800.0 | 25210600.0 | 144149300.0 |  |  |  |  |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.73     | 3578.10     |  |  |  |  |
| Min Ch El (ft)     | 572.17      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |  |  |  |  |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |  |  |  |  |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 14197.00    | 839.95     | 5495.17     |  |  |  |  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 102.17      | 4.31       | 36.87       |  |  |  |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1574.70\*

## INPUT

## Description:

|                        |                |       |                |                |                |        |             |        |      |
|------------------------|----------------|-------|----------------|----------------|----------------|--------|-------------|--------|------|
| Station Elevation Data |                |       |                |                |                |        |             |        |      |
| Sta                    | Elev           | Sta   | Elev           | Sta            | Elev           | Sta    | Elev        | Sta    | Elev |
| 0                      | 720            | 600   | 680            | 1000           | 676            | 1300   | 678         | 2000   | 667  |
| 2200                   | 670            | 2800  | 670            | 3800           | 650            | 4500   | 650         | 4600   | 640  |
| 4800                   | 640            | 5200  | 620            | 5900           | 614            | 7800   | 614         | 7900   | 615  |
| 8400                   | 615            | 8400  | 610            | 9200           | 610            | 9800   | 603         | 10000  | 600  |
| 10600                  | 600            | 10700 | 572.15         | 10800          | 572.15         | 11000  | 60012540.85 | 607.24 |      |
| 12849.02               | 608.5413195.34 |       | 612.513259.91  | 624.9513394.92 | 650.4913465.36 | 653.19 |             |        |      |
| 13794.07               | 664.6313876.25 |       | 663.3614093.44 | 660.9114293.02 | 661.7514492.59 | 695    |             |        |      |

## Manning's n Values

|     |       |       |       |       |       |
|-----|-------|-------|-------|-------|-------|
| Sta | n Val | Sta   | n Val | Sta   | n Val |
| 0   | .15   | 10600 | .15   | 11000 | .15   |

|           |       |       |          |      |         |       |       |        |        |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10600 | 11000 |          | 4.95 | 4.95    | 4.95  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS



| TXU_Rev1.rep       |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 77042.33   | 524294.40   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 77042.33   | 524294.40   |
| Q Total (cfs)      | 86710.95    | Flow (cfs)             | 60105.52    | 3956.83    | 22648.61    |
| Top width (ft)     | 14492.59    | Top width (ft)         | 10600.00    | 400.00     | 3492.59     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.05      | Hydr. Depth (ft)       | 137.47      | 192.61     | 150.12      |
| Conv. Total (cfs)  | 552524200.0 | Conv. (cfs)            | 382993800.0 | 25212990.0 | 144317500.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.74     | 3579.44     |
| Min Ch El (ft)     | 572.15      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 14031.41    | 831.20     | 5435.62     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 100.96      | 4.27       | 36.47       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1569.75\*

## INPUT

## Description:

| Station Elevation Data |                | num=  | 35             |       |                |       |                |       |      |
|------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|------|
| Sta                    | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev |
| 0                      | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000  | 667  |
| 2200                   | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600  | 640  |
| 4800                   | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900  | 615  |
| 8400                   | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000 | 600  |
| 10600                  | 600            | 10700 | 572.12         | 10800 | 572.12         | 11000 | 60012541.39    | 607.2 |      |
| 12849.67               | 608.5213196.12 |       | 612.0813260.71 |       | 624.6113395.77 |       | 650.4113466.23 | 653.1 |      |
| 13795.06               | 664.6913877.27 |       | 663.414094.53  |       | 660.7614294.18 |       | 661.4614493.83 | 695   |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|--------------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  | .1           | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 77049.84   | 524741.10   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 77049.84   | 524741.10   |
| Q Total (cfs)      | 86710.51    | Flow (cfs)             | 60086.48    | 3956.14    | 22667.89    |
| Top width (ft)     | 14493.83    | Top width (ft)         | 10600.00    | 400.00     | 3493.83     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.08      | Hydr. Depth (ft)       | 137.47      | 192.62     | 150.19      |
| Conv. Total (cfs)  | 552696400.0 | Conv. (cfs)            | 382993800.0 | 25216570.0 | 144486100.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.75     | 3580.79     |
| Min Ch El (ft)     | 572.12      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 13865.82    | 822.44     | 5376.01     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 99.76       | 4.22       | 36.08       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1564.80\*

## INPUT

## Description:

| Station Elevation Data |                | num=  | 35             |       |                |       |                |        |      |
|------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|--------|------|
| Sta                    | Elev           | Sta   | Elev           | Sta   | Elev           | Sta   | Elev           | Sta    | Elev |
| 0                      | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000   | 667  |
| 2200                   | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600   | 640  |
| 4800                   | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900   | 615  |
| 8400                   | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000  | 600  |
| 10600                  | 600            | 10700 | 572.1          | 10800 | 572.1          | 11000 | 60012541.94    | 607.17 |      |
| 12850.33               | 608.5 13196.9  |       | 611.6613261.51 |       | 624.2813396.61 |       | 650.32 13467.1 | 653.01 |      |
| 13796.05               | 664.7513878.29 |       | 663.4514095.63 |       | 660.6114295.34 |       | 661.1714495.06 | 695    |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|--------------|--------|
|           | 10600 | 11000 |          | 4.95         | 4.95  | .1           | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 77054.84   | 525176.10   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 77054.84   | 525176.10   |
| Q Total (cfs)      | 86710.07    | Flow (cfs)             | 60068.14    | 3955.30    | 22686.63    |
| Top width (ft)     | 14495.06    | Top width (ft)         | 10600.00    | 400.00     | 3495.06     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.10      | Hydr. Depth (ft)       | 137.47      | 192.64     | 150.26      |
| Conv. Total (cfs)  | 552862400.0 | Conv. (cfs)            | 382993800.0 | 25218970.0 | 144649700.0 |
| Length wtd. (ft)   | 4.95        | wetted Per. (ft)       | 10662.96    | 405.76     | 3582.14     |
| Min Ch El (ft)     | 572.10      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 13700.23    | 813.68     | 5316.36     |

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C & E Loss (ft) Cum SA (acres) TXU\_Rev1.rep 98.56 4.18 35.68

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1559.85\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35    | Sta            | Elev  | Sta            | Elev   | Sta | Elev | Sta | Elev |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|--------|-----|------|-----|------|
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000   | 667 |      |     |      |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600   | 640 |      |     |      |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900   | 615 |      |     |      |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000  | 600 |      |     |      |
| 10600    | 600            | 10700 | 572.07         | 10800 | 572.07         | 11000 | 60012542.48    | 607.13 |     |      |     |      |
| 12850.98 | 608.4813197.67 |       | 611.2513262.31 |       | 623.9413397.46 |       | 650.2413467.97 | 652.92 |     |      |     |      |
| 13797.04 | 664.8113879.3  |       | 663.4914096.72 |       | 660.4614296.51 |       | 660.8814496.3  | 695    |     |      |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| 10600     | 11000 |       | 4.95     | 4.95 | 4.95    |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 77062.34   | 525621.20   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 77062.34   | 525621.20   |
| Q Total (cfs)      | 86709.63    | Flow (cfs)             | 60049.21    | 3954.62    | 22705.80    |
| Top width (ft)     | 14496.30    | Top width (ft)         | 10600.00    | 400.00     | 3496.30     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.13      | Hydr. Depth (ft)       | 137.47      | 192.66     | 150.34      |
| Conv. Total (cfs)  | 553033900.0 | Conv. (cfs)            | 382993800.0 | 25222550.0 | 144817600.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.77     | 3583.49     |
| Min Ch El (ft)     | 572.07      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum volume (acre-ft)   | 13534.63    | 804.93     | 5256.66     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 97.35       | 4.13       | 35.28       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1554.90\*

## INPUT

## Description:

| Station  | Elevation      | Data  | num=           | 35    | Sta            | Elev  | Sta            | Elev   | Sta | Elev | Sta | Elev |
|----------|----------------|-------|----------------|-------|----------------|-------|----------------|--------|-----|------|-----|------|
| 0        | 720            | 600   | 680            | 1000  | 676            | 1300  | 678            | 2000   | 667 |      |     |      |
| 2200     | 670            | 2800  | 670            | 3800  | 650            | 4500  | 650            | 4600   | 640 |      |     |      |
| 4800     | 640            | 5200  | 620            | 5900  | 614            | 7800  | 614            | 7900   | 615 |      |     |      |
| 8400     | 615            | 8400  | 610            | 9200  | 610            | 9800  | 603            | 10000  | 600 |      |     |      |
| 10600    | 600            | 10700 | 572.05         | 10800 | 572.05         | 11000 | 60012543.03    | 607.09 |     |      |     |      |
| 12851.63 | 608.4613198.45 |       | 610.8313263.11 |       | 623.6113398.31 |       | 650.1613468.84 | 652.83 |     |      |     |      |
| 13798.02 | 664.8813880.32 |       | 663.5414097.81 |       | 660.314297.67  |       | 660.5814497.53 | 695    |     |      |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10600 | .15   | 11000 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| 10600     | 11000 |       | 4.95     | 4.95 | 4.95    |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 4.95        | 4.95       | 4.95        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 77067.34   | 526067.10   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 77067.34   | 526067.10   |
| Q Total (cfs)      | 86709.20    | Flow (cfs)             | 60030.38    | 3953.75    | 22725.07    |
| Top width (ft)     | 14497.53    | Top width (ft)         | 10600.00    | 400.00     | 3497.53     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.15      | Hydr. Depth (ft)       | 137.47      | 192.67     | 150.41      |
| Conv. Total (cfs)  | 553204700.0 | Conv. (cfs)            | 382993800.0 | 25224940.0 | 144986000.0 |
| Length wtd. (ft)   | 4.95        | Wetted Per. (ft)       | 10662.96    | 405.78     | 3584.84     |
| Min Ch El (ft)     | 572.05      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum volume (acre-ft)   | 13369.04    | 796.17     | 5196.90     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 96.15       | 4.09       | 34.88       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1549.95\*

## INPUT

## Description:

| Station | Elevation | Data | num= | 35 |
|---------|-----------|------|------|----|
|---------|-----------|------|------|----|

| TXU_Rev1.rep                                                         |                |                        |                |            |                |       |                |       |        |     |       |
|----------------------------------------------------------------------|----------------|------------------------|----------------|------------|----------------|-------|----------------|-------|--------|-----|-------|
| Sta                                                                  | Elev           | Sta                    | Elev           | Sta        | Elev           | Sta   | Elev           | Sta   | Elev   | Sta | Elev  |
| 0                                                                    | 720            | 600                    | 680            | 1000       | 676            | 1300  | 678            | 2000  | 667    |     |       |
| 2200                                                                 | 670            | 2800                   | 670            | 3800       | 650            | 4500  | 650            | 4600  | 640    |     |       |
| 4800                                                                 | 640            | 5200                   | 620            | 5900       | 614            | 7800  | 614            | 7900  | 615    |     |       |
| 8400                                                                 | 615            | 8400                   | 610            | 9200       | 610            | 9800  | 603            | 10000 | 600    |     |       |
| 10600                                                                | 600            | 10700                  | 572.02         | 10800      | 572.02         | 11000 | 60012543.57    |       | 607.06 |     |       |
| 12852.29                                                             | 608.4413199.22 |                        | 610.4213263.91 |            | 623.2813399.15 |       | 650.0813469.72 |       | 652.74 |     |       |
| 13799.01                                                             | 664.9413881.34 |                        | 663.5814098.91 |            | 660.1514298.84 |       | 660.2914498.77 |       | 695    |     |       |
| Manning's n Values                                                   |                |                        |                |            |                |       |                |       |        |     |       |
| Sta                                                                  | n Val          | Sta                    | n Val          | Sta        | n Val          | Sta   | n Val          | Sta   | n Val  | Sta | n Val |
| 0                                                                    | .15            | 10600                  | .15            | 11000      | .15            |       |                |       |        |     |       |
| Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan. |                |                        |                |            |                |       |                |       |        |     |       |
| 10600 11000 4.95 4.95 4.95 .1 .3                                     |                |                        |                |            |                |       |                |       |        |     |       |
| CROSS SECTION OUTPUT Profile #Max WS                                 |                |                        |                |            |                |       |                |       |        |     |       |
| E.G. Elev (ft)                                                       | 775.20         | Element                | Left OB        | Channel    | Right OB       |       |                |       |        |     |       |
| Vel Head (ft)                                                        | 0.00           | Wt. n-val.             | 0.150          | 0.150      | 0.150          |       |                |       |        |     |       |
| W.S. Elev (ft)                                                       | 775.20         | Reach Len. (ft)        | 4.95           | 4.95       | 4.95           |       |                |       |        |     |       |
| Crit W.S. (ft)                                                       |                | Flow Area (sq ft)      | 1457216.00     | 77074.83   | 526502.20      |       |                |       |        |     |       |
| E.G. Slope (ft/ft)                                                   | 0.000000       | Area (sq ft)           | 1457216.00     | 77074.83   | 526502.20      |       |                |       |        |     |       |
| Q Total (cfs)                                                        | 86708.77       | Flow (cfs)             | 60011.97       | 3953.10    | 22743.70       |       |                |       |        |     |       |
| Top width (ft)                                                       | 14498.77       | Top width (ft)         | 10600.00       | 400.00     | 3498.77        |       |                |       |        |     |       |
| Vel Total (ft/s)                                                     | 0.04           | Avg. Vel. (ft/s)       | 0.04           | 0.05       | 0.04           |       |                |       |        |     |       |
| Max Chl Dpth (ft)                                                    | 203.18         | Hydr. Depth (ft)       | 137.47         | 192.69     | 150.48         |       |                |       |        |     |       |
| Conv. Total (cfs)                                                    | 553371600.0    | Conv. (cfs)            | 382993800.0    | 25228520.0 | 145149300.0    |       |                |       |        |     |       |
| Length wtd. (ft)                                                     | 4.95           | wetted Per. (ft)       | 10662.96       | 405.79     | 3586.20        |       |                |       |        |     |       |
| Min Ch El (ft)                                                       | 572.02         | Shear (lb/sq ft)       | 0.00           | 0.00       | 0.00           |       |                |       |        |     |       |
| Alpha                                                                | 1.01           | Stream Power (lb/ft s) | 0.00           | 0.00       | 0.00           |       |                |       |        |     |       |
| Frctn Loss (ft)                                                      | 0.00           | Cum Volume (acre-ft)   | 13203.45       | 787.41     | 5137.10        |       |                |       |        |     |       |
| C & E Loss (ft)                                                      |                | Cum SA (acres)         | 94.94          | 4.04       | 34.49          |       |                |       |        |     |       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1545

## INPUT

## Description:

| Station Elevation Data |      |       |      | 30    |      |       |      |       |      |     |      |
|------------------------|------|-------|------|-------|------|-------|------|-------|------|-----|------|
| Sta                    | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta | Elev |
| 0                      | 720  | 600   | 680  | 1000  | 676  | 1300  | 678  | 2000  | 667  |     |      |
| 2200                   | 670  | 2800  | 670  | 3800  | 650  | 4500  | 650  | 4600  | 640  |     |      |
| 4800                   | 640  | 5200  | 620  | 5900  | 614  | 7800  | 614  | 7900  | 615  |     |      |
| 8400                   | 615  | 8400  | 610  | 9200  | 610  | 9800  | 603  | 10000 | 600  |     |      |
| 10600                  | 600  | 10700 | 572  | 10800 | 572  | 11000 | 600  | 13200 | 610  |     |      |
| 13400                  | 650  | 13800 | 665  | 14100 | 660  | 14300 | 660  | 14500 | 695  |     |      |

|                    |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|
| Manning's n Values |       | num=  |       | 3     |       |
| Sta                | n Val | Sta   | n Val | Sta   | n Val |
| 0                  | .15   | 10600 | .15   | 11000 | .15   |

|           |       |       |          |      |         |       |       |        |        |  |  |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|--|--|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |  |  |
|           | 10600 | 11000 |          | 9.74 | 9.74    | 9.74  | .1    | .3     |        |  |  |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |  |  |  |  |  |  |
|--------------------|-------------|------------------------|-------------|------------|-------------|--|--|--|--|--|--|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |  |  |  |  |  |  |
| Vel Head (ft)      | 0.00        | WT. n-Val.             | 0.150       | 0.150      | 0.150       |  |  |  |  |  |  |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |  |  |  |  |  |  |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1457216.00  | 77079.84   | 526948.60   |  |  |  |  |  |  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1457216.00  | 77079.84   | 526948.60   |  |  |  |  |  |  |
| Q Total (cfs)      | 86708.33    | Flow (cfs)             | 59993.12    | 3952.23    | 22762.98    |  |  |  |  |  |  |
| Top width (ft)     | 14500.00    | Top width (ft)         | 10600.00    | 400.00     | 3500.00     |  |  |  |  |  |  |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |  |  |  |  |  |  |
| Max Chl Dpth (ft)  | 203.20      | Hydr. Depth (ft)       | 137.47      | 192.70     | 150.56      |  |  |  |  |  |  |
| Conv. Total (cfs)  | 553542700.0 | Conv. (cfs)            | 382993800.0 | 25230910.0 | 145318000.0 |  |  |  |  |  |  |
| Length wtd. (ft)   | 9.74        | Wetted Per. (ft)       | 10662.96    | 405.80     | 3587.55     |  |  |  |  |  |  |
| Min Ch El (ft)     | 572.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |  |  |  |  |  |  |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |  |  |  |  |  |  |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 13037.85    | 778.65     | 5077.24     |  |  |  |  |  |  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 93.74       | 3.99       | 34.09       |  |  |  |  |  |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1535.26\*

## INPUT

## Description:

| Station Elevation Data |        |           | num= 56 |          |        |          |        |            |        |     |        |
|------------------------|--------|-----------|---------|----------|--------|----------|--------|------------|--------|-----|--------|
| Sta                    | Elev   | Sta       | Elev    | Sta      | Elev   | Sta      | Elev   | Sta        | Elev   | Sta | Elev   |
| 0                      | 720    | 589.22    | 680.72  | 600.33   | 680    | 982.03   | 676.18 | 1000.55    | 676    |     | 676    |
| 1276.63                | 677.84 | 1300.72   | 677.99  | 1964.05  | 667.56 | 2001.11  | 667.02 | 2160.46    | 669.41 |     | 669.41 |
| 2201.22                | 670    | 2749.67   | 670     | 2801.55  | 669.97 | 3731.7   | 651.37 | 3802.11    | 650    |     | 650    |
| 4419.12                | 650    | 4502.5    | 649.75  | 4517.32  | 648.27 | 4602.55  | 640    | 4713.73    | 640    |     | 640    |
| 4802.66                | 639.87 | 5106.54   | 624.67  | 5202.89  | 619.98 | 5793.95  | 614.91 | 5903.27    | 614    |     | 614    |
| 7659.8                 | 614    | 7758.01   | 614.03  | 7804.33  | 614.03 | 7904.38  | 615    | 8249.02    | 615    |     | 615    |
| 8249.02                | 614.85 | 8404.66   | 614.85  | 8404.66  | 610    | 9034.64  | 610    | 9205.11    | 609.94 |     | 609.94 |
| 9623.86                | 605.06 | 9805.44   | 602.92  | 9820.26  | 602.71 | 10005.55 | 600    | 10605.88   | 600    |     | 600    |
| 10708.82               | 571.97 | 110808.82 | 571.97  | 11008.82 | 600    | 11427.94 | 601    | 9912852.94 | 608.38 |     | 608.38 |
| 13020.59               | 609.12 | 13221.76  | 610.94  | 13272.06 | 620.88 | 1422.94  | 650    | 1613691.18 | 660.15 |     | 660.15 |
| 13825.29               | 664.88 | 13858.82  | 664.31  | 14110.29 | 660.27 | 14127.06 | 660.04 | 14328.24   | 660.54 |     | 660.54 |
| 14529.41               | 695    |           |         |          |        |          |        |            |        |     |        |

|                    |      |   |
|--------------------|------|---|
| Manning's n Values | num= | 3 |
|--------------------|------|---|



| TXU_Rev1.rep                         |             |          |                        |             |         |            |             |        |        |
|--------------------------------------|-------------|----------|------------------------|-------------|---------|------------|-------------|--------|--------|
| Sta                                  | n Val       | Sta      | n Val                  | Sta         | n Val   |            |             |        |        |
| 0                                    | .1510605.88 |          | .1511008.82            |             | .15     |            |             |        |        |
| Bank Sta:                            | Left        | Right    | Lengths:               | Left        | Channel | Right      | Coeff       | Contr. | Expan. |
|                                      | 10605.88    | 11008.82 |                        | 9.74        | 9.74    | 9.74       |             | .1     | .3     |
| CROSS SECTION OUTPUT Profile #Max WS |             |          |                        |             |         |            |             |        |        |
| E.G. Elev (ft)                       | 775.20      |          | Element                | Left OB     |         | Channel    | Right OB    |        |        |
| Vel Head (ft)                        | 0.00        |          | Wt. n-Val.             | 0.150       |         | 0.150      | 0.150       |        |        |
| W.S. Elev (ft)                       | 775.20      |          | Reach Len. (ft)        | 9.74        |         | 9.74       | 9.74        |        |        |
| Crit W.S. (ft)                       |             |          | Flow Area (sq ft)      | 1458237.00  |         | 77643.71   | 529564.50   |        |        |
| E.G. Slope (ft/ft)                   | 0.000000    |          | Area (sq ft)           | 1458237.00  |         | 77643.71   | 529564.50   |        |        |
| Q Total (cfs)                        | 86707.48    |          | Flow (cfs)             | 59916.06    |         | 3973.64    | 22817.78    |        |        |
| Top width (ft)                       | 14529.41    |          | Top width (ft)         | 10605.88    |         | 402.94     | 3520.59     |        |        |
| Vel Total (ft/s)                     | 0.04        |          | Avg. Vel. (ft/s)       | 0.04        |         | 0.05       | 0.04        |        |        |
| Max chl Dpth (ft)                    | 203.23      |          | Hydr. Depth (ft)       | 137.49      |         | 192.69     | 150.42      |        |        |
| Conv. Total (cfs)                    | 554693700.0 |          | Conv. (cfs)            | 383301000.0 |         | 25420550.0 | 145972200.0 |        |        |
| Length wtd. (ft)                     | 9.74        |          | wetted Per. (ft)       | 10668.81    |         | 408.64     | 3607.85     |        |        |
| Min Ch El (ft)                       | 571.97      |          | Shear (lb/sq ft)       | 0.00        |         | 0.00       | 0.00        |        |        |
| Alpha                                | 1.01        |          | Stream Power (lb/ft s) | 0.00        |         | 0.00       | 0.00        |        |        |
| Frctn Loss (ft)                      | 0.00        |          | Cum Volume (acre-ft)   | 12711.91    |         | 761.36     | 4959.12     |        |        |
| C & E Loss (ft)                      |             |          | Cum SA (acres)         | 91.37       |         | 3.90       | 33.30       |        |        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1525.52\*

## INPUT

## Description:

| Station Elevation Data num= 56 |                |        |          |                |         |                |         |        |      |
|--------------------------------|----------------|--------|----------|----------------|---------|----------------|---------|--------|------|
| Sta                            | Elev           | Sta    | Elev     | Sta            | Elev    | Sta            | Elev    | Sta    | Elev |
| 0                              | 720.589.54     | 680.7  | 600.67   | 679.99         | 982.57  | 676.17         | 1001.11 | 676.01 |      |
| 1277.34                        | 677.85 1301.44 | 677.98 | 1965.14  | 667.55         | 2002.22 | 667.03         | 2161.66 | 669.42 |      |
| 2202.44                        | 670.2751.2     | 670    | 2803.11  | 669.94         | 3733.77 | 651.32         | 3804.22 | 650    |      |
| 4421.57                        | 650.4504.99    | 649.5  | 4519.83  | 648.02         | 4605.11 | 640            | 4716.34 | 640    |      |
| 4805.33                        | 639.73 5109.37 | 624.53 | 5205.77  | 619.95         | 5797.17 | 614.88         | 5906.55 | 614    |      |
| 7664.05                        | 614.7762.31    | 614.06 | 7808.66  | 614.06         | 7908.77 | 615            | 8253.59 | 615    |      |
| 8253.59                        | 614.71 8409.32 | 614.71 | 8409.32  | 610            | 9039.65 | 610            | 9210.21 | 609.88 |      |
| 9629.19                        | 604.99 9810.88 | 602.84 | 9825.71  | 602.61         | 10011.1 | 60010611.76    |         | 600    |      |
| 10717.65                       | 571.9410817.65 | 571.94 | 11017.65 | 60011439.22    |         | 602.0812872.55 | 608.43  |        |      |
| 13041.18                       | 609.1413243.53 | 611.88 | 13294.12 | 621.7613445.88 |         | 650.3213715.69 | 660.29  |        |      |
| 13850.59                       | 664.7613884.31 | 664.18 | 14137.25 | 660.2614154.12 |         | 660.0814356.47 | 661.07  |        |      |
| 14558.82                       | 695            |        |          |                |         |                |         |        |      |

## Manning's n Values

| Sta | n Val       | Sta | n Val       | Sta | n Val |
|-----|-------------|-----|-------------|-----|-------|
| 0   | .1510611.76 |     | .1511017.65 |     | .15   |

|                |          |               |         |       |       |        |        |
|----------------|----------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right    | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 10611.76       | 11017.65 | 9.74          | 9.74    | 9.74  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |  |  |  |  |
|--------------------|-------------|------------------------|-------------|------------|-------------|--|--|--|--|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |  |  |  |  |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |  |  |  |  |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |  |  |  |  |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1459271.00  | 78209.52   | 532181.30   |  |  |  |  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1459271.00  | 78209.52   | 532181.30   |  |  |  |  |
| Q Total (cfs)      | 86706.62    | Flow (cfs)             | 59839.51    | 3994.98    | 22872.13    |  |  |  |  |
| Top Width (ft)     | 14558.82    | Top Width (ft)         | 10611.76    | 405.89     | 3541.17     |  |  |  |  |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |  |  |  |  |
| Max Chl Dpth (ft)  | 203.26      | Hydr. Depth (ft)       | 137.51      | 192.69     | 150.28      |  |  |  |  |
| Conv. Total (cfs)  | 555851300.0 | Conv. (cfs)            | 383614000.0 | 25610640.0 | 146626700.0 |  |  |  |  |
| Length wtd. (ft)   | 9.74        | Wetted Per. (ft)       | 10674.66    | 411.50     | 3628.15     |  |  |  |  |
| Min Ch El (ft)     | 571.94      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |  |  |  |  |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |  |  |  |  |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 12385.73    | 743.93     | 4840.42     |  |  |  |  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 88.99       | 3.81       | 32.51       |  |  |  |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1515.79\*

## INPUT

## Description:

| Station Elevation Data num= 56 |                |                |          |                |         |                |         |        |      |
|--------------------------------|----------------|----------------|----------|----------------|---------|----------------|---------|--------|------|
| Sta                            | Elev           | Sta            | Elev     | Sta            | Elev    | Sta            | Elev    | Sta    | Elev |
| 0                              | 720.589.87     | 680.68         | 601      | 679.99         | 983.12  | 676.17         | 1001.66 | 676.01 |      |
| 1278.05                        | 677.85 1302.16 | 677.97         | 1966.23  | 667.53         | 2003.33 | 667.05         | 2162.85 | 669.44 |      |
| 2203.66                        | 670.2752.72    | 670            | 2804.66  | 669.91         | 3735.84 | 651.28         | 3806.33 | 650    |      |
| 4424.02                        | 650.4507.49    | 649.25         | 4522.33  | 647.77         | 4607.66 | 640            | 4718.95 | 640    |      |
| 4807.99                        | 639.6 5112.2   | 624.39         | 5208.66  | 619.93         | 5800.38 | 614.85         | 5909.82 | 614    |      |
| 7668.3                         | 614.7766.61    | 614.09         | 7812.99  | 614.09         | 7913.15 | 615            | 8258.17 | 615    |      |
| 8258.17                        | 614.56 8413.98 | 614.56         | 8413.98  | 610            | 9044.66 | 610            | 9215.32 | 609.82 |      |
| 9634.53                        | 604.93 9816.32 | 602.76         | 9831.15  | 602.5310016.65 |         | 60010617.65    | 600     |        |      |
| 10726.47                       | 571.9110826.47 | 571.91         | 11026.47 | 60011450.49    |         | 602.1712892.16 | 608.48  |        |      |
| 13061.76                       | 609.1713265.29 | 612.8213316.18 |          | 622.6513468.82 |         | 650.48 13740.2 | 660.44  |        |      |
| 13875.88                       | 664.65 13909.8 | 664.0514164.22 |          | 660.2514181.18 |         | 660.1214384.71 | 661.61  |        |      |
| 14588.24                       | 695            |                |          |                |         |                |         |        |      |

## Manning's n Values

| Sta | n Val       | Sta | n Val       | Sta | n Val |
|-----|-------------|-----|-------------|-----|-------|
| 0   | .1510617.65 |     | .1511026.47 |     | .15   |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
|                |       |               |         |       |       |        |        |

10617.6511026.47 9.74 9.74 9.74 TXU\_Rev1.rep .3  
 CROSS SECTION OUTPUT Profile #Max WS

| Element            | Left OB     | Channel     | Right OB    |
|--------------------|-------------|-------------|-------------|
| E.G. Elev (ft)     | 775.20      | 775.20      | 775.20      |
| Vel Head (ft)      | 0.00        | 0.00        | 0.00        |
| W.S. Elev (ft)     | 775.20      | 775.20      | 775.20      |
| Crit W.S. (ft)     | 775.20      | 775.20      | 775.20      |
| E.G. Slope (ft/ft) | 0.000000    | 0.000000    | 0.000000    |
| Q Total (cfs)      | 86705.76    | 86705.76    | 86705.76    |
| Top width (ft)     | 14588.24    | 14588.24    | 14588.24    |
| Vel Total (ft/s)   | 0.04        | 0.04        | 0.04        |
| Max chl Dpth (ft)  | 203.29      | 203.29      | 203.29      |
| Conv. Total (cfs)  | 556997200.0 | 556997200.0 | 556997200.0 |
| Length Wtd. (ft)   | 9.74        | 9.74        | 9.74        |
| Min Ch El (ft)     | 571.91      | 571.91      | 571.91      |
| Alpha              | 1.01        | 1.01        | 1.01        |
| Frctn Loss (ft)    | 0.00        | 0.00        | 0.00        |
| C & E Loss (ft)    | 0.00        | 0.00        | 0.00        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1506.05\*

INPUT  
 Description:

| Station  | Elevation | Data     | num=   | 56       |
|----------|-----------|----------|--------|----------|
| Sta      | Elev      | Sta      | Elev   | Sta      |
| 0        | 720       | 590.2    | 680.65 | 601.33   |
| 1278.76  | 677.86    | 1302.89  | 677.95 | 1967.32  |
| 2204.88  | 670       | 2754.25  | 670    | 2806.22  |
| 4426.47  | 650       | 4509.99  | 649    | 4524.84  |
| 4810.65  | 639.47    | 5115.03  | 624.25 | 5211.54  |
| 7672.55  | 614       | 7770.92  | 614.12 | 7817.31  |
| 8262.75  | 614.41    | 8418.65  | 614.41 | 8418.65  |
| 9639.87  | 604.87    | 9821.75  | 602.67 | 9836.6   |
| 10735.29 | 571.88    | 10835.29 | 571.88 | 11035.29 |
| 13082.35 | 609.21    | 13287.06 | 613.76 | 13338.24 |
| 13901.18 | 664.53    | 13935.29 | 663.92 | 14191.18 |
| 14617.65 | 695       |          | 660.25 | 14208.24 |

| Manning's n | Values      | num=        | 3     |
|-------------|-------------|-------------|-------|
| Sta         | n Val       | Sta         | n Val |
| 0           | .1510623.53 | .1511035.29 | .15   |

| Bank Sta: Left   | Right | Lengths: Left | Channel | Right | Coeff Contr. | Expan. |
|------------------|-------|---------------|---------|-------|--------------|--------|
| 10623.5311035.29 |       | 9.74          | 9.74    | 9.74  | .1           | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| Element            | Left OB     | Channel     | Right OB    |
|--------------------|-------------|-------------|-------------|
| E.G. Elev (ft)     | 775.20      | 775.20      | 775.20      |
| Vel Head (ft)      | 0.00        | 0.00        | 0.00        |
| W.S. Elev (ft)     | 775.20      | 775.20      | 775.20      |
| Crit W.S. (ft)     | 775.20      | 775.20      | 775.20      |
| E.G. Slope (ft/ft) | 0.000000    | 0.000000    | 0.000000    |
| Q Total (cfs)      | 86704.90    | 86704.90    | 86704.90    |
| Top width (ft)     | 14617.65    | 14617.65    | 14617.65    |
| Vel Total (ft/s)   | 0.04        | 0.04        | 0.04        |
| Max chl Dpth (ft)  | 203.32      | 203.32      | 203.32      |
| Conv. Total (cfs)  | 558144300.0 | 558144300.0 | 558144300.0 |
| Length Wtd. (ft)   | 9.74        | 9.74        | 9.74        |
| Min Ch El (ft)     | 571.88      | 571.88      | 571.88      |
| Alpha              | 1.01        | 1.01        | 1.01        |
| Frctn Loss (ft)    | 0.00        | 0.00        | 0.00        |
| C & E Loss (ft)    | 0.00        | 0.00        | 0.00        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1496.32\*

INPUT  
 Description:

| Station  | Elevation | Data     | num=   | 56       |
|----------|-----------|----------|--------|----------|
| Sta      | Elev      | Sta      | Elev   | Sta      |
| 0        | 720       | 590.52   | 680.63 | 601.66   |
| 1279.47  | 677.86    | 1303.61  | 677.94 | 1968.41  |
| 2206.1   | 670       | 2755.77  | 670    | 2807.77  |
| 4428.92  | 650       | 4512.49  | 648.75 | 4527.34  |
| 4813.32  | 639.33    | 5117.86  | 624.11 | 5214.43  |
| 7676.8   | 614       | 7775.22  | 614.15 | 7821.64  |
| 8267.32  | 614.26    | 8423.31  | 614.26 | 8423.31  |
| 9645.21  | 604.81    | 9827.19  | 602.59 | 9842.05  |
| 10744.12 | 571.85    | 10844.12 | 571.85 | 11044.12 |
| 13102.94 | 609.22    | 13308.82 | 614.71 | 13360.29 |
| 13926.47 | 664.41    | 13960.78 | 663.79 | 14218.14 |
| 14647.06 | 695       |          | 660.24 | 14235.29 |

| Manning's n | Values      | num=        | 3     |
|-------------|-------------|-------------|-------|
| Sta         | n Val       | Sta         | n Val |
| 0           | .1510629.41 | .1511044.12 | .15   |

| Bank Sta: Left   | Right | Lengths: Left | Channel | Right | Coeff Contr. | Expan. |
|------------------|-------|---------------|---------|-------|--------------|--------|
| 10629.4111044.12 |       | 9.74          | 9.74    | 9.74  | .1           | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             | TXU_Rev1.rep           |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1462353.00  | 79901.56   | 539985.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1462353.00  | 79901.56   | 539985.30   |
| Q Total (cfs)      | 86704.03    | Flow (cfs)             | 59614.11    | 4058.28    | 23031.64    |
| Top width (ft)     | 14647.06    | Top width (ft)         | 10629.41    | 414.71     | 3602.94     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.35      | Hydr. Depth (ft)       | 137.58      | 192.67     | 149.87      |
| Conv. Total (cfs)  | 559288200.0 | Conv. (cfs)            | 384543500.0 | 26178090.0 | 148566600.0 |
| Length wtd. (ft)   | 9.74        | wetted Per. (ft)       | 10692.22    | 420.08     | 3689.17     |
| Min Ch El (ft)     | 571.85      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 11405.82    | 690.90     | 4480.81     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 81.87       | 3.54       | 30.12       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1486.58\*

## INPUT

| Description: |                | num= 56        |                |                |         |
|--------------|----------------|----------------|----------------|----------------|---------|
| Station      | Elevation Data | Sta            | Elev           | Sta            | Elev    |
| 0            | 720 590.85     | 680.61         | 602            | 679.98         | 984.75  |
| 1280.17      | 677.87 1304.33 | 677.93         | 1969.5         | 667.48         | 2006.66 |
| 2207.33      | 670 2757.3     | 670 2809.32    | 669.81         | 3742.05        | 651.16  |
| 4431.37      | 650 4514.98    | 648.5 4529.85  | 647.02         | 4615.32        | 640     |
| 4815.98      | 639.2 5120.7   | 623.97 5217.31 | 619.85         | 5810.02        | 614.77  |
| 7681.05      | 614 7779.52    | 614.18 7825.97 | 614.18         | 7926.3         | 615     |
| 8271.9       | 614.12 8427.97 | 614.12 8427.97 | 610            | 9059.7         | 615     |
| 9650.54      | 604.74 9832.63 | 602.51 9847.49 | 602.29         | 10033.3        | 609.64  |
| 10752.94     | 571.8210852.94 | 571.8211052.94 | 60011484.31    | 60010635.29    | 600     |
| 13123.53     | 609.2513330.59 | 615.6513382.35 | 625.2913537.65 | 602.4412950.98 | 608.63  |
| 13951.76     | 664.2913986.27 | 663.66 14245.1 | 660.2314262.35 | 650.9513813.73 | 660.88  |
| 14676.47     | 695            |                |                | 660.2514469.41 | 663.21  |

| Manning's n Values |             | num= 3        |         |       |              |
|--------------------|-------------|---------------|---------|-------|--------------|
| Sta                | n Val       | Sta           | n Val   | Sta   | n Val        |
| 0                  | .1510635.29 | .1511052.94   | .15     |       |              |
| Bank Sta: Left     | Right       | Lengths: Left | Channel | Right | Coeff Contr. |
| 10635.2911052.94   |             | 9.74          | 9.74    | 9.74  | .1           |
|                    |             |               |         |       | Expan. .3    |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1463381.00  | 80465.87   | 542579.40   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1463381.00  | 80465.87   | 542579.40   |
| Q Total (cfs)      | 86703.17    | Flow (cfs)             | 59540.06    | 4079.20    | 23083.92    |
| Top width (ft)     | 14676.47    | Top width (ft)         | 10635.29    | 417.65     | 3623.53     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.38      | Hydr. Depth (ft)       | 137.60      | 192.66     | 149.74      |
| Conv. Total (cfs)  | 560430100.0 | Conv. (cfs)            | 384853700.0 | 26367050.0 | 149209300.0 |
| Length wtd. (ft)   | 9.74        | wetted Per. (ft)       | 10698.08    | 422.95     | 3709.54     |
| Min Ch El (ft)     | 571.82      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 11078.72    | 672.97     | 4359.78     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 79.49       | 3.45       | 29.31       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1476.85\*

## INPUT

| Description: |                | num= 56        |                |                |        |
|--------------|----------------|----------------|----------------|----------------|--------|
| Station      | Elevation Data | Sta            | Elev           | Sta            | Elev   |
| 0            | 720 591.18     | 680.59         | 602.33         | 679.98         | 985.29 |
| 1280.88      | 677.87 1305.05 | 677.92 1970.59 | 667.46         | 2007.77        | 667.12 |
| 2208.55      | 670 2758.82    | 670 2810.88    | 669.78         | 3744.12        | 651.12 |
| 4433.82      | 650 4517.48    | 648.25 4532.35 | 646.76         | 4617.87        | 640    |
| 4818.65      | 639.07 5123.53 | 623.82 5220.2  | 619.83         | 5813.24        | 614.74 |
| 7685.29      | 614 7783.82    | 614.21 7830.3  | 614.21         | 7930.69        | 615    |
| 8276.47      | 613.97 8432.63 | 613.97 8432.63 | 610            | 9064.71        | 615    |
| 9655.88      | 604.68 9838.07 | 602.43 9852.94 | 602.2110038.85 | 60010641.18    | 609.58 |
| 10761.76     | 571.7910861.76 | 571.7911061.76 | 60011495.59    | 602.5312970.59 | 608.68 |
| 13144.12     | 609.2813352.35 | 616.5913404.41 | 626.1813560.59 | 651.1113838.24 | 661.03 |
| 13977.06     | 664.1814011.76 | 663.5314272.06 | 660.2214289.41 | 660.2914497.65 | 663.75 |
| 14705.88     | 695            |                |                |                |        |

| Manning's n Values |             | num= 3        |         |       |              |
|--------------------|-------------|---------------|---------|-------|--------------|
| Sta                | n Val       | Sta           | n Val   | Sta   | n Val        |
| 0                  | .1510641.18 | .1511061.76   | .15     |       |              |
| Bank Sta: Left     | Right       | Lengths: Left | Channel | Right | Coeff Contr. |
| 10641.1811061.76   |             | 9.74          | 9.74    | 9.74  | .1           |
|                    |             |               |         |       | Expan. .3    |

## CROSS SECTION OUTPUT Profile #Max WS

|                |        |                   |            |          |           |
|----------------|--------|-------------------|------------|----------|-----------|
| E.G. Elev (ft) | 775.20 | Element           | Left OB    | Channel  | Right OB  |
| Vel Head (ft)  | 0.00   | wt. n-Val.        | 0.150      | 0.150    | 0.150     |
| W.S. Elev (ft) | 775.20 | Reach Len. (ft)   | 9.74       | 9.74     | 9.74      |
| Crit W.S. (ft) |        | Flow Area (sq ft) | 1464408.00 | 81028.24 | 545162.30 |



|                    |             | TXU_Rev1.rep           |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1464408.00  | 81028.24   | 545162.30   |
| Q Total (cfs)      | 86702.30    | Flow (cfs)             | 59466.89    | 4099.97    | 23135.43    |
| Top width (ft)     | 14705.88    | Top width (ft)         | 10641.18    | 420.58     | 3644.12     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.41      | Hydr. Depth (ft)       | 137.62      | 192.66     | 149.60      |
| Conv. Total (cfs)  | 561564900.0 | Conv. (cfs)            | 385163000.0 | 26555230.0 | 149846600.0 |
| Length wtd. (ft)   | 9.74        | wetted Per. (ft)       | 10703.95    | 425.82     | 3729.92     |
| Min Ch El (ft)     | 571.79      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frcn Loss (ft)     | 0.00        | Cum Volume (acre-ft)   | 10751.40    | 654.92     | 4238.17     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 77.11       | 3.35       | 28.50       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 1467.11\*

INPUT

Description:

| Station Elevation Data |                |         | num= 56        |         |                |         |                |          |        |
|------------------------|----------------|---------|----------------|---------|----------------|---------|----------------|----------|--------|
| Sta                    | Elev           | Sta     | Elev           | Sta     | Elev           | Sta     | Elev           | Sta      | Elev   |
| 0                      | 720            | 591.5   | 680.57         | 602.66  | 679.97         | 985.84  | 676.14         | 1004.44  | 676.03 |
| 1281.59                | 677.88         | 1305.77 | 677.91         | 1971.68 | 667.45         | 2008.88 | 667.13         | 2168.85  | 669.53 |
| 2209.77                | 670            | 2760.35 | 670            | 2812.43 | 669.75         | 3746.19 | 651.08         | 3816.87  | 650    |
| 4436.27                | 650            | 4519.98 | 648            | 4534.86 | 646.51         | 4620.42 | 640            | 4732.03  | 640    |
| 4821.31                | 638.93         | 5126.36 | 623.68         | 5223.09 | 619.8          | 5816.45 | 614.72         | 5926.19  | 614    |
| 7689.54                | 614            | 7788.13 | 614.24         | 7834.63 | 614.24         | 7935.07 | 615            | 8281.05  | 615    |
| 8281.05                | 613.82         | 8437.29 | 613.82         | 8437.29 | 610            | 9069.72 | 610            | 9240.84  | 609.52 |
| 9661.22                | 604.62         | 9843.51 | 602.35         | 9858.39 | 602.12         | 10044.4 | 600            | 10647.06 | 600    |
| 10770.59               | 571.7610870.59 |         | 571.7611070.59 |         | 620011506.86   |         | 602.62         | 12990.2  | 608.73 |
| 13164.71               | 609.313374.12  |         | 617.5313426.47 |         | 627.0613853.53 |         | 651.2713862.75 |          | 661.18 |
| 14002.35               | 664.0614037.25 |         | 663.414299.02  |         | 660.2114316.47 |         | 660.3314525.88 |          | 664.28 |
| 14735.29               | 695            |         |                |         |                |         |                |          |        |

```

Manning's n values      num=      3
Sta  n val      Sta  n val      Sta  n val
0      .1510647.06      .1511070.59      .15

```

|           |          |          |          |      |         |       |       |        |        |
|-----------|----------|----------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left     | Right    | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10647.06 | 11070.59 |          | 9.74 | 9.74    | 9.74  |       | .1     | .3     |

CROSS SECTION OUTPUT    Profile #Max WS

|                    |            |                        |            |            |             |
|--------------------|------------|------------------------|------------|------------|-------------|
| E.G. Elev (ft)     | 775.20     | Element                | Left OB    | Channel    | Right OB    |
| Vel Head (ft)      | 0.00       | wt. n-Val.             | 0.150      | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20     | Reach Len. (ft)        | 9.74       | 9.74       | 9.74        |
| Crit W.S. (ft)     |            | Flow Area (sq ft)      | 1465434.00 | 81594.57   | 547743.50   |
| E.G. Slope (ft/ft) | 0.000000   | Area (sq ft)           | 1465434.00 | 81594.57   | 547743.50   |
| Q Total (cfs)      | 86701.45   | Flow (cfs)             | 59394.00   | 4120.84    | 23186.61    |
| Top Width (ft)     | 14735.29   | Top width (ft)         | 10647.06   | 423.53     | 3664.70     |
| Vel Total (ft/s)   | 0.04       | Avg. Vel. (ft/s)       | 0.04       | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.44     | Hydr. Depth (ft)       | 137.64     | 192.63     | 149.46      |
| Conv. Total (cfs)  | 56270020.0 | Went Per. (ft)         | 38547240.0 | 26744610.0 | 150483200.0 |
| Length Wtd. (ft)   | 9.74       | Went Per. (ft)         | 10709.81   | 428.70     | 3750.31     |
| Min Chl El (ft)    | 571.76     | Shear (lb/sq ft)       | 0.00       | 0.00       | 0.00        |
| Alpha              | 1.01       | Stream Power (lb/ft s) | 0.00       | 0.00       | 0.00        |
| Frcn Loss (ft)     | 0.00       | Cum Volume (acre-ft)   | 10423.84   | 636.74     | 4115.99     |
| C & E Loss (ft)    |            | Cum SA (acres)         | 74.73      | 3.26       | 27.68       |

warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 1457.38\*

INPUT

Description:

[illegible]

|           |          |     |          |     |       |
|-----------|----------|-----|----------|-----|-------|
| Manning's | n Values |     | num=     | 3   |       |
| Sta       | n val    | Sta | n val    | Sta | n val |
| 0         | .1510652 | .94 | .1511079 | .41 | .15   |

|           |          |          |          |      |         |       |       |        |        |
|-----------|----------|----------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left     | Right    | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10652.94 | 11079.41 |          | 9.74 | 9.74    | 9.74  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |          |                   |            |          |           |
|--------------------|----------|-------------------|------------|----------|-----------|
| E.G. Elev (ft)     | 775.20   | Element           | Left OB    | Channel  | Right OB  |
| Vel Head (ft)      | 0.00     | Wt. n-Val.        | 0.150      | 0.150    | 0.150     |
| W.S. Elev (ft)     | 775.20   | Reach Len. (ft)   | 9.74       | 9.74     | 9.74      |
| Crit W.S. (ft)     |          | Flow Area (sq ft) | 1466466.00 | 82156.34 | 550318.40 |
| E.G. Slope (ft/ft) | 0.000000 | Area (sq ft)      | 1466466.00 | 82156.34 | 550318.40 |
| Q Total (cfs)      | 86760.58 | Flow (cfs)        | 59322.08   | 4141.33  | 23237.16  |
| Top width (ft)     | 14764.71 | Top width (ft)    | 10652.94   | 426.47   | 3685.30   |
| Vel Total (ft/s)   | 0.04     | Avg. Vel. (ft/s)  | 0.04       | 0.05     | 0.04      |

|                   |             |                        |             |            |             |
|-------------------|-------------|------------------------|-------------|------------|-------------|
| Max Chl Dpth (ft) | 203.46      | Hydr. Depth (ft)       | 137.66      | 192.64     | 149.33      |
| Conv. Total (cfs) | 563832000.0 | Conv. (cfs)            | 385783900.0 | 26931960.0 | 151116100.0 |
| Length wtd. (ft)  | 9.74        | wetted Per. (ft)       | 10715.67    | 431.58     | 3770.72     |
| Min Ch El (ft)    | 571.74      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha             | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)   | 0.00        | Cum Volume (acre-ft)   | 10096.06    | 618.43     | 3993.22     |
| C & E Loss (ft)   |             | Cum SA (acres)         | 72.35       | 3.16       | 26.86       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 1447.64\*

INPUT

[illegible]

```

Manning's n Values      num=      3
Sta      n val      Sta      n val      Sta      n val
0      .1510658.82      .1511088.24      .15

```

|           |           |         |          |      |         |       |       |        |        |
|-----------|-----------|---------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left      | Right   | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10658.821 | 1088.24 |          | 9.74 | 9.74    | 9.74  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| Left OB             |              | Channel                |             | Right OB |             |
|---------------------|--------------|------------------------|-------------|----------|-------------|
| E.G. Elev (ft)      | 775.20       | Element                | 0.150       | 0.150    | 0.150       |
| Vel Head (ft)       | 0.00         | wt. n-Val.             | 0.150       | 0.150    | 0.150       |
| W.S. Elev (ft)      | 775.20       | Reach Len. (ft)        | 9.74        | 9.74     | 9.74        |
| Crit W.S. (ft)      |              | Flow Area (sq ft)      | 1467496.00  | 82722.84 | 552885.00   |
| E.G. Slope (ft/ft)  | 0.000000     | Area (sq ft)           | 1467496.00  | 82722.84 | 552885.00   |
| Q Total (cfs)       | 86699.71     | Flow (cfs)             | 59250.59    | 4162.05  | 23287.06    |
| Top width (ft)      | 14794.12     | Top width (ft)         | 10658.82    | 429.42   | 3705.88     |
| Vel Total (ft/s)    | 0.04         | Avg. Vel. (ft/s)       | 0.04        | 0.05     | 0.04        |
| Max Chl Dpth (ft)   | 203.49       | Hydr. Depth (ft)       | 137.68      | 192.64   | 149.19      |
| Cum Vol Total (cfs) | 5649961400.0 | Wetted Per. (ft)       | 386094700.0 | 121180.0 | 151745500.0 |
| Length Wtd. (ft)    | 9.74         | Shear (lb/sq ft)       | 10721.54    | 434.47   | 3791.13     |
| Min Ch El (ft)      | 571.71       | Stream Power (lb/ft s) | 0.00        | 0.00     | 0.00        |
| Alpha               | 1.01         | Cum Volume (acre-ft)   | 9768.04     | 600.00   | 3869.89     |
| Frcn Loss (ft)      | 0.00         | Cum SA (acres)         | 69.97       | 3.07     | 26.03       |
| C & E Loss (ft)     |              |                        |             |          |             |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 1437.91\*

INPUT

| Description:           |        |         |          |         |          |        |            |             |             |             |
|------------------------|--------|---------|----------|---------|----------|--------|------------|-------------|-------------|-------------|
| Station Elevation Data |        |         | num=     |         | 56       |        |            |             |             |             |
| Sta                    | Elev   |         | Sta      | Elev    | Sta      | Elev   | Sta        | Elev        | Sta         | Elev        |
| 1283.71                | 0      | 720     | 592.48   | 680.5   | 603.66   | 679.96 | 987.47     | 676.13      | 1006.1      | 676.04      |
| 1283.71                | 677.89 | 1307.94 | 677.88   | 1974.95 |          | 667.39 | 2012.21    | 667.18      | 2172.44     | 669.59      |
| 2213.43                |        | 670     | 2764.92  | 670     | 2817.09  | 669.66 | 3752.4     | 650.95      | 3823.2      | 650.95      |
| 4443.63                |        | 650     | 4527.47  | 647.25  | 4542.38  | 645.76 | 4628.08    | 640.47      | 4739.87     | 640.47      |
| 44829.3                |        | 638.53  | 5134.86  | 623.26  | 5231.74  | 619.73 | 5826.09    | 614.63      | 5936.02     | 614.63      |
| 7702.29                |        | 614     | 7801.03  | 614.32  | 7847.61  | 614.32 | 7948.22    | 615.82      | 7994.77     | 615.82      |
| 2924.77                |        | 613.38  | 8451.28  | 613.38  | 8451.28  | 610    | 9084.75    | 610         | 9256.56     | 609.15      |
| 967.23                 |        |         |          | 604.1   | 987.73   | 601    | 8810061.04 | 60010664.71 | 60010664.71 | 60010664.71 |
| 10797.06               |        | 571.68  | 10897.06 | 571.68  | 1097.06  | 600    | 11540.69   | 602.91      | 10340.02    | 608.87      |
| 13226.47               |        | 609.39  | 3439.41  | 620.35  | 13492.65 | 629.71 | 133652.35  | 651.79      | 13936.27    | 661.62      |
| 14078.24               |        | 663.71  | 14113.73 | 663.01  | 14379.9  | 660.19 | 14397.65   | 660.45      | 142610.59   | 665.89      |
| 14823.53               |        | 695     |          |         |          |        |            |             |             |             |

|           |             |     |             |     |       |  |  |
|-----------|-------------|-----|-------------|-----|-------|--|--|
| Manning's | n Values    |     | num=        | 3   |       |  |  |
| Sta       | n Val       | Sta | n Val       | Sta | n Val |  |  |
| 0         | .1510664.71 |     | .1511097.06 |     | .15   |  |  |

|           |          |          |          |      |         |       |       |        |        |
|-----------|----------|----------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left     | Right    | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10664.71 | 11097.06 |          | 9.74 | 9.74    | 9.74  |       | .1     | .3     |

CROSS SECTION OUTPUT    Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element           | Left OB     | Channel    | Right OB    |
|--------------------|-------------|-------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | Wt. n-val.        | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)   | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft) | 1468527.00  | 83285.55   | 555445.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)      | 1468527.00  | 83285.55   | 555445.30   |
| Q Total (cfs)      | 86698.84    | Flow (cfs)        | 59179.90    | 4182.51    | 23336.43    |
| Top Width (ft)     | 14823.53    | Top width (ft)    | 10664.71    | 432.35     | 3726.47     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)  | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.52      | Hydr. Depth (ft)  | 137.70      | 192.63     | 149.05      |
| Conv. Total (cfs)  | 566086300.0 | Conv. (cfs)       | 386405800.0 | 27309050.0 | 152371500.0 |
| Length wtd. (ft)   | 9.74        | Wetted Per. (ft)  | 10727.41    | 437.34     | 3811.57     |
| Min Ch El (ft)     | 571.68      | Shear (lb/sq ft)  | 0.00        | 0.00       | 0.00        |

|                 |      |                        |         |        |         |
|-----------------|------|------------------------|---------|--------|---------|
| Alpha           | 1.01 | Stream Power (lb/ft s) | 0.00    | 0.00   | 0.00    |
| Frctn Loss (ft) | 0.00 | Cum Volume (acre-ft)   | 9439.79 | 581.44 | 3745.97 |
| C & E Loss (ft) |      | Cum SA (acres)         | 67.59   | 2.97   | 25.20   |

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Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1428.17\*

## INPUT

## Description:

| Station  | Elev         | Sta     | Elev        | Sta     | Elev        | Sta         | Elev        | Sta     | Elev   |
|----------|--------------|---------|-------------|---------|-------------|-------------|-------------|---------|--------|
| 0        | 720          | 592.81  | 680.48      | 604     | 679.96      | 988.02      | 676.12      | 1006.66 | 676.04 |
| 1284.42  | 677.9        | 1308.66 | 677.86      | 1976.03 | 667.38      | 2013.32     | 667.2       | 2173.64 | 669.6  |
| 2214.65  | 670          | 2766.45 | 670         | 2818.65 | 669.63      | 3754.47     | 650.91      | 3825.31 | 650    |
| 4446.08  | 650          | 4529.97 | 647         | 4544.88 | 645.51      | 4630.63     | 640         | 4742.48 | 640    |
| 4831.96  | 638.4        | 5137.69 | 623.12      | 5234.63 | 619.7       | 5829.3      | 614.61      | 5939.29 | 614    |
| 7706.54  | 614          | 7805.34 | 614.35      | 7851.94 | 614.35      | 7952.61     | 615         | 8299.35 | 615    |
| 8299.35  | 613.24       | 8455.94 | 613.24      | 8455.94 | 610         | 9089.76     | 610         | 9261.27 | 609.29 |
| 9682.57  | 604.37       | 9865.26 | 602.02      | 9880.17 | 601.810066  | 59          | 60010670.59 | 600     | 600    |
| 10805.88 | 571.65110905 | 88      | 571.6511105 | 88      | 60011551.96 | 602.9913068 | 63          | 608.92  | 608.92 |
| 13247.06 | 609.4113461  | 18      | 621.2913514 | 71      | 630.5913675 | 29          | 651.9113960 | 78      | 661.76 |
| 14103.53 | 663.5914139  | 22      | 662.8814406 | 86      | 660.1814424 | 71          | 660.4914638 | 82      | 666.42 |
| 14852.94 | 695          |         |             |         |             |             |             |         |        |

## Manning's n Values

| Sta | n Val       | Sta | n Val       | Sta | n Val |
|-----|-------------|-----|-------------|-----|-------|
| 0   | .1510670.59 |     | .1511105.88 |     | .15   |

| Bank Sta: Left   | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
|------------------|-------|---------------|---------|-------|-------|--------|--------|
| 10670.5911105.88 |       | 9.74          | 9.74    | 9.74  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1469548.00  | 83850.37   | 558007.90   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1469548.00  | 83850.37   | 558007.90   |
| Q Total (cfs)      | 86697.98    | Flow (cfs)             | 59109.13    | 4203.01    | 23385.84    |
| Top width (ft)     | 14852.94    | Top width (ft)         | 10670.59    | 435.29     | 3747.06     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.55      | Hydr. Depth (ft)       | 137.72      | 192.63     | 148.92      |
| Conv. Total (cfs)  | 567208600.0 | Conv. (cfs)            | 386712700.0 | 27497540.0 | 152998400.0 |
| Length wtd. (ft)   | 9.74        | wetted Per. (ft)       | 10733.28    | 440.23     | 3832.01     |
| Min Ch El (ft)     | 571.65      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 9111.32     | 562.75     | 3621.49     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 65.20       | 2.87       | 24.37       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1418.44\*

## INPUT

## Description:

| Station  | Elev        | Sta     | Elev        | Sta     | Elev        | Sta         | Elev        | Sta     | Elev   |
|----------|-------------|---------|-------------|---------|-------------|-------------|-------------|---------|--------|
| 0        | 720         | 593.14  | 680.46      | 604.33  | 679.96      | 988.56      | 676.11      | 1007.21 | 676.05 |
| 1285.13  | 677.9       | 1309.38 | 677.85      | 1977.12 | 667.36      | 2014.43     | 667.22      | 2174.84 | 669.62 |
| 2215.87  | 670         | 2767.97 | 670         | 2820.2  | 669.6       | 3756.54     | 650.87      | 3827.41 | 650    |
| 4448.53  | 650         | 4532.46 | 646.75      | 4547.39 | 645.26      | 4633.19     | 640         | 4745.1  | 640    |
| 4834.63  | 638.27      | 5140.52 | 622.97      | 5237.51 | 619.68      | 5832.52     | 614.58      | 5942.56 | 614    |
| 7710.78  | 614         | 7809.64 | 614.38      | 7856.27 | 614.38      | 7956.99     | 615         | 8303.92 | 615    |
| 8303.92  | 613.09      | 8460.6  | 613.09      | 8460.6  | 610         | 9094.77     | 610         | 9266.37 | 609.23 |
| 9687.91  | 604.31      | 9870.7  | 601.94      | 9885.62 | 601.7210072 | 14          | 60010676.47 | 600     | 600    |
| 10814.71 | 571.6210914 | 71      | 571.6211114 | 71      | 60011563.24 | 603.0813088 | 24          | 608.97  | 608.97 |
| 13267.65 | 609.4413482 | 94      | 622.2413536 | 76      | 631.4713698 | 24          | 652.0613985 | 29      | 661.91 |
| 14128.82 | 663.4714164 | 71      | 662.7514433 | 82      | 660.1714451 | 76          | 660.5414667 | 06      | 666.96 |
| 14882.35 | 695         |         |             |         |             |             |             |         |        |

## Manning's n Values

| Sta | n Val       | Sta | n Val       | Sta | n Val |
|-----|-------------|-----|-------------|-----|-------|
| 0   | .1510676.47 |     | .1511114.71 |     | .15   |

| Bank Sta: Left   | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
|------------------|-------|---------------|---------|-------|-------|--------|--------|
| 10676.4711114.71 |       | 9.74          | 9.74    | 9.74  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1470575.00  | 84417.13   | 560556.60   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1470575.00  | 84417.13   | 560556.60   |
| Q Total (cfs)      | 86697.10    | Flow (cfs)             | 59039.34    | 4223.53    | 23434.23    |
| Top width (ft)     | 14882.35    | Top width (ft)         | 10676.47    | 438.24     | 3767.64     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.58      | Hydr. Depth (ft)       | 137.74      | 192.63     | 148.78      |
| Conv. Total (cfs)  | 568327700.0 | Conv. (cfs)            | 387022100.0 | 27686590.0 | 153619000.0 |
| Length wtd. (ft)   | 9.74        | wetted Per. (ft)       | 10739.15    | 443.13     | 3852.45     |
| Min Ch El (ft)     | 571.62      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 8782.61     | 543.94     | 3496.43     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 62.81       | 2.78       | 23.53       |



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Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1408.70\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=   | 56       | Elev   | Sta      | Elev   | Sta      | Elev   | Sta | Elev | Sta | Elev |
|----------|-----------|----------|--------|----------|--------|----------|--------|----------|--------|-----|------|-----|------|
| 0        | 720       | 593.46   | 680.44 | 604.66   | 679.95 | 989.11   | 676.11 | 1007.77  | 676.05 |     |      |     |      |
| 1285.84  | 677.91    | 1310.1   | 677.84 | 1978.21  | 667.34 | 2015.54  | 667.23 | 2176.03  | 669.64 |     |      |     |      |
| 2217.09  | 670       | 2769.5   | 670    | 2821.75  | 669.56 | 3758.61  | 650.83 | 3829.52  | 650    |     |      |     |      |
| 4450.98  | 650       | 4534.96  | 646.5  | 4549.89  | 645.01 | 4635.74  | 640    | 4747.71  | 640    |     |      |     |      |
| 4837.29  | 638.14    | 5143.35  | 622.83 | 5240.4   | 619.65 | 5835.73  | 614.55 | 5945.84  | 614    |     |      |     |      |
| 7715.03  | 614       | 7813.94  | 614.41 | 7860.6   | 614.41 | 7961.38  | 615    | 8308.5   | 615    |     |      |     |      |
| 8308.5   | 612.94    | 8465.26  | 612.94 | 8465.26  | 610    | 9099.78  | 610    | 9271.48  | 609.17 |     |      |     |      |
| 9693.25  | 604.25    | 9876.14  | 601.86 | 9891.07  | 601.63 | 10077.69 | 600    | 10682.35 | 600    |     |      |     |      |
| 10823.53 | 571.59    | 10923.53 | 571.59 | 11123.53 | 600    | 11574.51 | 603.17 | 13107.84 | 609.02 |     |      |     |      |
| 13288.24 | 609.47    | 13504.71 | 623.18 | 13558.82 | 632.35 | 13721.18 | 652.22 | 14009.8  | 662.06 |     |      |     |      |
| 14154.12 | 663.35    | 14190.2  | 662.61 | 14460.78 | 660.16 | 14478.82 | 660.58 | 14695.29 | 667.49 |     |      |     |      |
| 14911.76 | 695       |          |        |          |        |          |        |          |        |     |      |     |      |

## Manning's n Values

| Sta | n Val       | Sta | n Val       | Sta | n Val |
|-----|-------------|-----|-------------|-----|-------|
| 0   | .1510682.35 |     | .1511123.53 |     | .15   |

| Bank Sta: Left | Right    | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
|----------------|----------|---------------|---------|-------|-------|--------|--------|
| 10682.35       | 11123.53 | 9.74          | 9.74    | 9.74  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1471611.00  | 84982.13   | 563105.40   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1471611.00  | 84982.13   | 563105.40   |
| Q Total (cfs)      | 86696.23    | Flow (cfs)             | 58970.13    | 4243.85    | 23482.25    |
| Top width (ft)     | 14911.76    | Top width (ft)         | 10682.35    | 441.18     | 3788.23     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.61      | Hydr. Depth (ft)       | 137.76      | 192.62     | 148.65      |
| Conv. Total (cfs)  | 569449300.0 | Conv. (cfs)            | 387335200.0 | 27874990.0 | 154239100.0 |
| Length wtd. (ft)   | 9.74        | Wetted Per. (ft)       | 10745.03    | 446.02     | 3872.92     |
| Min Ch El (ft)     | 571.59      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 8453.68     | 525.00     | 3370.81     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 60.43       | 2.68       | 22.68       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1398.97\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=   | 56       | Elev   | Sta      | Elev   | Sta      | Elev   | Sta | Elev | Sta | Elev |
|----------|-----------|----------|--------|----------|--------|----------|--------|----------|--------|-----|------|-----|------|
| 0        | 720       | 593.79   | 680.41 | 604.99   | 679.95 | 989.65   | 676.1  | 1008.32  | 676.06 |     |      |     |      |
| 1286.55  | 677.91    | 1310.82  | 677.83 | 1979.3   | 667.33 | 2016.65  | 667.25 | 2177.23  | 669.66 |     |      |     |      |
| 2218.31  | 670       | 2771.02  | 670    | 2823.31  | 669.53 | 3760.68  | 650.79 | 3831.63  | 650    |     |      |     |      |
| 4453.43  | 650       | 4537.46  | 646.25 | 4552.4   | 644.76 | 4638.29  | 640    | 4750.33  | 640    |     |      |     |      |
| 4839.96  | 638       | 5146.19  | 622.69 | 5243.29  | 619.63 | 5838.94  | 614.52 | 5949.11  | 614    |     |      |     |      |
| 7719.28  | 614       | 7818.25  | 614.44 | 7864.93  | 614.44 | 7965.76  | 615    | 8313.07  | 615    |     |      |     |      |
| 8313.07  | 612.79    | 8469.92  | 612.79 | 8469.92  | 610    | 9104.79  | 610    | 9276.58  | 609.11 |     |      |     |      |
| 9698.58  | 604.18    | 9881.58  | 601.78 | 9896.51  | 601.55 | 10083.24 | 600    | 10688.24 | 600    |     |      |     |      |
| 10832.35 | 571.56    | 10932.35 | 571.56 | 11132.35 | 600    | 11585.78 | 603.26 | 13127.45 | 609.07 |     |      |     |      |
| 13308.82 | 609.49    | 13526.47 | 624.12 | 13580.88 | 633.24 | 13744.12 | 652.38 | 14034.31 | 662.21 |     |      |     |      |
| 14179.41 | 663.24    | 14215.69 | 662.48 | 14487.75 | 660.16 | 14505.88 | 660.62 | 14723.53 | 668.03 |     |      |     |      |
| 14941.18 | 695       |          |        |          |        |          |        |          |        |     |      |     |      |

## Manning's n Values

| Sta | n Val       | Sta | n Val       | Sta | n Val |
|-----|-------------|-----|-------------|-----|-------|
| 0   | .1510688.24 |     | .1511132.35 |     | .15   |

| Bank Sta: Left | Right    | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
|----------------|----------|---------------|---------|-------|-------|--------|--------|
| 10688.24       | 11132.35 | 9.74          | 9.74    | 9.74  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1472643.00  | 85545.02   | 565644.40   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1472643.00  | 85545.02   | 565644.40   |
| Q Total (cfs)      | 86695.36    | Flow (cfs)             | 58901.70    | 4264.03    | 23529.63    |
| Top width (ft)     | 14941.18    | Top width (ft)         | 10688.24    | 444.11     | 3808.83     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.64      | Hydr. Depth (ft)       | 137.78      | 192.62     | 148.51      |
| Conv. Total (cfs)  | 570563400.0 | Conv. (cfs)            | 387646500.0 | 28062610.0 | 154854300.0 |
| Length wtd. (ft)   | 9.74        | Wetted Per. (ft)       | 10750.91    | 448.90     | 3893.41     |
| Min Ch El (ft)     | 571.56      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 8124.51     | 505.93     | 3244.62     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 58.04       | 2.58       | 21.83       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

TXU\_Rev1.rep

RIVER: SQUAW CREEK  
REACH: SC

RS: 1389.23\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=   | 56       | Elev   | Sta      | Elev   | Sta      | Elev   | Sta | Elev | Sta | Elev |
|----------|-----------|----------|--------|----------|--------|----------|--------|----------|--------|-----|------|-----|------|
| 0        | 720       | 594.12   | 680.39 | 605.33   | 679.95 | 990.2    | 676.1  | 1008.88  | 676.06 |     |      |     |      |
| 1287.25  | 677.92    | 1311.54  | 677.82 | 1980.39  | 667.31 | 2017.76  | 667.27 | 2178.43  | 669.68 |     |      |     |      |
| 2219.53  | 670       | 2772.55  | 670    | 2824.86  | 669.5  | 3762.75  | 650.75 | 3833.74  | 650    |     |      |     |      |
| 4455.88  | 650       | 4539.96  | 646    | 4554.9   | 644.51 | 4640.84  | 640    | 4752.94  | 640    |     |      |     |      |
| 4842.62  | 637.87    | 5149.02  | 622.55 | 5246.17  | 619.6  | 5842.16  | 614.5  | 5952.39  | 614    |     |      |     |      |
| 7723.53  | 614       | 7822.55  | 614.47 | 7869.26  | 614.47 | 7970.14  | 615    | 8317.65  | 615    |     |      |     |      |
| 8317.65  | 612.65    | 8474.58  | 612.65 | 8474.58  | 610    | 9109.8   | 610    | 9281.69  | 609.05 |     |      |     |      |
| 9703.92  | 604.12    | 9887.01  | 601.69 | 9901.96  | 601.47 | 10088.79 | 600    | 10694.12 | 600    |     |      |     |      |
| 10841.18 | 571.53    | 10941.18 | 571.53 | 11141.18 | 600    | 11597.06 | 603.36 | 13147.06 | 609.12 |     |      |     |      |
| 13329.41 | 609.52    | 13548.24 | 625.06 | 13602.94 | 634.12 | 13767.06 | 652.54 | 14058.82 | 662.35 |     |      |     |      |
| 14204.71 | 663.12    | 14241.18 | 662.35 | 14514.71 | 660.15 | 14532.94 | 660.66 | 14751.76 | 668.56 |     |      |     |      |
| 14970.59 | 695       |          |        |          |        |          |        |          |        |     |      |     |      |

## Manning's n Values

| Sta | n Val | Sta      | n Val | Sta      | n Val |
|-----|-------|----------|-------|----------|-------|
| 0   | .15   | 10694.12 | .15   | 11141.18 | .15   |

| Bank Sta: | Left     | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|----------|-------|----------|------|---------|-------|-------|--------|--------|
| 10694.12  | 11141.18 |       | 9.74     | 9.74 | 9.74    |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1473666.00  | 86112.03   | 568170.90   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1473666.00  | 86112.03   | 568170.90   |
| Q Total (cfs)      | 86694.48    | Flow (cfs)             | 58833.75    | 4284.38    | 23576.34    |
| Top width (ft)     | 14970.59    | Top width (ft)         | 10694.12    | 447.06     | 3829.41     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.67      | Hydr. Depth (ft)       | 137.80      | 192.62     | 148.37      |
| Conv. Total (cfs)  | 571669800.0 | Conv. (cfs)            | 387954100.0 | 28251540.0 | 155464100.0 |
| Length wtd. (ft)   | 9.74        | Wetted Per. (ft)       | 10756.79    | 451.81     | 3913.89     |
| Min Ch El (ft)     | 571.53      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 7795.11     | 486.74     | 3117.85     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 55.65       | 2.48       | 20.98       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 1379.5\*

## INPUT

## Description:

| Station | Elevation | Data     | num=   | 56       | Elev   | Sta      | Elev   | Sta      | Elev   | Sta | Elev | Sta | Elev |
|---------|-----------|----------|--------|----------|--------|----------|--------|----------|--------|-----|------|-----|------|
| 0       | 720       | 594.44   | 680.37 | 605.66   | 679.94 | 990.74   | 676.09 | 1009.43  | 676.06 |     |      |     |      |
| 1287.96 | 677.92    | 1312.26  | 677.81 | 1981.48  | 667.29 | 2018.87  | 667.28 | 2179.63  | 669.69 |     |      |     |      |
| 2220.75 | 670       | 2774.07  | 670    | 2826.42  | 669.47 | 3764.81  | 650.7  | 3835.85  | 650    |     |      |     |      |
| 4458.33 | 650       | 4542.45  | 645.75 | 4557.41  | 644.26 | 4643.4   | 640    | 4755.56  | 640    |     |      |     |      |
| 4845.28 | 637.74    | 5151.85  | 622.41 | 5249.06  | 619.58 | 5845.37  | 614.47 | 5955.66  | 614    |     |      |     |      |
| 7727.78 | 614       | 7826.85  | 614.5  | 7873.58  | 614.5  | 7974.53  | 615    | 8322.22  | 615    |     |      |     |      |
| 8322.22 | 612.5     | 8479.25  | 612.5  | 8479.25  | 610    | 9114.81  | 610    | 9286.79  | 608.99 |     |      |     |      |
| 9709.26 | 604.06    | 9892.45  | 601.61 | 9907.41  | 601.39 | 10094.34 | 600    | 10700    | 600    |     |      |     |      |
| 10850   | 571.5     | 10950    | 571.5  | 11150    | 600    | 11608.33 | 603.45 | 13166.67 | 609.17 |     |      |     |      |
| 13350   | 609.55    | 13570    | 626    | 13625    | 635    | 13790    | 652.71 | 14083.33 | 662.5  |     |      |     |      |
| 14230   | 663.12    | 14266.67 | 662.22 | 14541.67 | 660.14 | 14560    | 660.7  | 14780    | 669.1  |     |      |     |      |
| 15000   | 695       |          |        |          |        |          |        |          |        |     |      |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10700 | .15   | 11150 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| 10700     | 11150 |       | 9.74     | 9.74 | 9.74    |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1474702.00  | 86677.31   | 570699.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1474702.00  | 86677.31   | 570699.30   |
| Q Total (cfs)      | 86693.60    | Flow (cfs)             | 58766.39    | 4304.52    | 23622.69    |
| Top width (ft)     | 15000.00    | Top width (ft)         | 10700.00    | 450.00     | 3850.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.70      | Hydr. Depth (ft)       | 137.82      | 192.62     | 148.23      |
| Conv. Total (cfs)  | 572781800.0 | Conv. (cfs)            | 388267600.0 | 28439840.0 | 156074400.0 |
| Length wtd. (ft)   | 9.74        | Wetted Per. (ft)       | 10762.67    | 454.70     | 3934.38     |
| Min Ch El (ft)     | 571.50      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 7465.48     | 467.43     | 2990.53     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 53.25       | 2.38       | 20.12       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 1369.76\*

TXU\_Rev1.rep

## INPUT

## Description:

| Station Elevation Data |        |          | num=   | 56       |        |          |        |          |        |     |      |     |      |     |      |     |      |     |      |     |
|------------------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| Sta                    | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev | Sta |
| 0                      | 720    | 594.77   | 680.35 | 605.99   | 679.94 | 991.29   | 676.09 | 1009.99  | 676.07 |     |      |     |      |     |      |     |      |     |      |     |
| 1288.67                | 677.92 | 1312.99  | 677.8  | 1982.57  | 667.27 | 2019.98  | 667.3  | 2180.83  | 669.71 |     |      |     |      |     |      |     |      |     |      |     |
| 2221.98                | 670    | 2775.6   | 670    | 2827.97  | 669.44 | 3766.88  | 650.66 | 3837.96  | 650    |     |      |     |      |     |      |     |      |     |      |     |
| 4460.78                | 650    | 4544.95  | 645.51 | 4559.91  | 644.01 | 4645.95  | 640    | 4758.17  | 640    |     |      |     |      |     |      |     |      |     |      |     |
| 4847.95                | 637.6  | 5154.68  | 622.27 | 5251.94  | 619.55 | 5848.58  | 614.44 | 5958.93  | 614    |     |      |     |      |     |      |     |      |     |      |     |
| 7732.03                | 614    | 7831.15  | 614.53 | 7877.91  | 614.53 | 7978.91  | 615    | 8326.8   | 615    |     |      |     |      |     |      |     |      |     |      |     |
| 8326.8                 | 612.35 | 8483.91  | 612.35 | 8483.91  | 610    | 9119.83  | 610    | 9291.9   | 608.93 |     |      |     |      |     |      |     |      |     |      |     |
| 9714.6                 | 604    | 9897.89  | 601.53 | 9912.85  | 601.31 | 10099.89 | 600    | 10705.88 | 600    |     |      |     |      |     |      |     |      |     |      |     |
| 10858.82               | 571.47 | 10958.82 | 571.47 | 11158.82 | 600    | 11619.61 | 603.54 | 13186.27 | 609.22 |     |      |     |      |     |      |     |      |     |      |     |
| 13370.59               | 609.57 | 13591.76 | 626.94 | 13647.06 | 635.88 | 13812.94 | 652.86 | 14107.84 | 662.65 |     |      |     |      |     |      |     |      |     |      |     |
| 14255.29               | 662.88 | 14292.16 | 662.09 | 14568.63 | 660.13 | 14587.06 | 660.74 | 14808.24 | 669.64 |     |      |     |      |     |      |     |      |     |      |     |
| 15029.41               | 695    |          |        |          |        |          |        |          |        |     |      |     |      |     |      |     |      |     |      |     |

| Manning's n Values |             |     | num=  | 3   |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|--------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| Sta                | n Val       | Sta | n Val | Sta | n Val | Sta | n Val | Sta | n Val | Sta | n Val | Sta | n Val | Sta | n Val | Sta | n Val | Sta | n Val | Sta |
| 0                  | .1510705.88 |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|                    |             |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |

| Bank Sta: | Left    | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|---------|-------|----------|------|---------|-------|-------|--------|--------|
| 10705.88  | 1158.82 |       | 9.74     | 9.74 | 9.74    |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1475732.00  | 87242.68   | 573223.90   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1475732.00  | 87242.68   | 573223.90   |
| Q Total (cfs)      | 86692.73    | Flow (cfs)             | 58699.32    | 4324.62    | 23668.79    |
| Top width (ft)     | 15029.41    | Top width (ft)         | 10705.88    | 452.94     | 3870.59     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.73      | Hydr. Depth (ft)       | 137.84      | 192.61     | 148.10      |
| Conv. Total (cfs)  | 573888700.0 | Conv. (cfs)            | 388577900.0 | 28628110.0 | 156682700.0 |
| Length Wtd. (ft)   | 9.74        | wetted Per. (ft)       | 10768.55    | 457.60     | 3954.90     |
| Min Ch El (ft)     | 571.47      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 7135.63     | 447.98     | 2862.64     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 50.86       | 2.28       | 19.26       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 1360.02\*

## INPUT

## Description:

| Station Elevation Data |        |          | num=   | 56       |        |          |        |          |        |     |      |     |      |     |      |     |      |     |      |     |
|------------------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| Sta                    | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev | Sta |
| 0                      | 720    | 595.1    | 680.33 | 606.33   | 679.94 | 991.83   | 676.08 | 1010.54  | 676.07 |     |      |     |      |     |      |     |      |     |      |     |
| 1289.38                | 677.93 | 1313.71  | 677.78 | 1983.66  | 667.26 | 2021.09  | 667.32 | 2182.03  | 669.73 |     |      |     |      |     |      |     |      |     |      |     |
| 2223.2                 | 670    | 2777.12  | 670    | 2829.52  | 669.41 | 3768.95  | 650.62 | 3840.07  | 650    |     |      |     |      |     |      |     |      |     |      |     |
| 4463.24                | 650    | 4547.45  | 645.26 | 4562.42  | 643.76 | 4648.5   | 640    | 4760.78  | 640    |     |      |     |      |     |      |     |      |     |      |     |
| 4850.61                | 637.47 | 5157.52  | 622.12 | 5254.83  | 619.53 | 5851.8   | 614.41 | 5962.21  | 614    |     |      |     |      |     |      |     |      |     |      |     |
| 7736.27                | 614    | 7835.46  | 614.56 | 7882.24  | 614.56 | 7983.3   | 615    | 8331.37  | 615    |     |      |     |      |     |      |     |      |     |      |     |
| 8331.37                | 612.21 | 8488.57  | 612.21 | 8488.57  | 610    | 9124.84  | 610    | 9297     | 608.97 |     |      |     |      |     |      |     |      |     |      |     |
| 9719.93                | 603.93 | 9903.33  | 601.45 | 9918.3   | 601.23 | 10105.44 | 600    | 10711.76 | 600    |     |      |     |      |     |      |     |      |     |      |     |
| 10867.65               | 571.44 | 10967.65 | 571.44 | 11167.65 | 600    | 11630.88 | 603.63 | 13205.88 | 609.26 |     |      |     |      |     |      |     |      |     |      |     |
| 13391.18               | 609.61 | 13613.53 | 627.88 | 13669.12 | 636.76 | 13835.88 | 653.02 | 14132.35 | 662.79 |     |      |     |      |     |      |     |      |     |      |     |
| 14280.59               | 662.76 | 14317.65 | 661.96 | 14595.59 | 660.12 | 14614.12 | 660.78 | 14836.47 | 670.17 |     |      |     |      |     |      |     |      |     |      |     |
| 15058.82               | 695    |          |        |          |        |          |        |          |        |     |      |     |      |     |      |     |      |     |      |     |

| Manning's n Values |             |     | num=  | 3   |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|--------------------|-------------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| Sta                | n Val       | Sta | n Val | Sta | n Val | Sta | n Val | Sta | n Val | Sta | n Val | Sta | n Val | Sta | n Val | Sta | n Val | Sta | n Val | Sta |
| 0                  | .1510711.76 |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
|                    |             |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |

| Bank Sta: | Left     | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|----------|-------|----------|------|---------|-------|-------|--------|--------|
| 10711.76  | 11167.65 |       | 9.74     | 9.74 | 9.74    |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1476761.00  | 87809.96   | 575752.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1476761.00  | 87809.96   | 575752.30   |
| Q Total (cfs)      | 86691.85    | Flow (cfs)             | 58632.28    | 4344.70    | 23714.87    |
| Top width (ft)     | 15058.82    | Top width (ft)         | 10711.76    | 455.89     | 3891.17     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.76      | Hydr. Depth (ft)       | 137.86      | 192.61     | 147.96      |
| Conv. Total (cfs)  | 574998000.0 | Conv. (cfs)            | 388888300.0 | 28816970.0 | 157292800.0 |
| Length Wtd. (ft)   | 9.74        | wetted Per. (ft)       | 10774.43    | 460.51     | 3975.41     |
| Min Ch El (ft)     | 571.44      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 6805.54     | 428.41     | 2734.18     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 48.47       | 2.18       | 18.39       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 1350.29\*

## INPUT

## Description:

| Station Elevation Data |      |     | num= | 56  |
|------------------------|------|-----|------|-----|
| Sta                    | Elev | Sta | Elev | Sta |



| TXU_Rev1.rep                                                         |             |                        |             |            |             |          |        |          |        |
|----------------------------------------------------------------------|-------------|------------------------|-------------|------------|-------------|----------|--------|----------|--------|
| Sta                                                                  | Elev        | Sta                    | Elev        | Sta        | Elev        | Sta      | Elev   | Sta      | Elev   |
| 0                                                                    | 720         | 595.42                 | 680.3       | 606.66     | 679.93      | 992.37   | 676.08 | 1011.1   | 676.07 |
| 1290.09                                                              | 677.93      | 1314.43                | 677.77      | 1984.75    | 667.24      | 2022.2   | 667.33 | 2183.22  | 669.75 |
| 2224.42                                                              | 670         | 2778.65                | 670         | 2831.08    | 669.38      | 3771.02  | 650.58 | 3842.18  | 650    |
| 4465.69                                                              | 650         | 4549.94                | 645.01      | 4564.92    | 643.51      | 4651.05  | 640    | 4763.4   | 640    |
| 4853.27                                                              | 637.34      | 5160.35                | 621.98      | 5257.71    | 619.51      | 5855.01  | 614.39 | 5965.48  | 614    |
| 7740.52                                                              | 614         | 7839.76                | 614.59      | 7886.57    | 614.59      | 7987.68  | 615    | 8335.95  | 615    |
| 8335.95                                                              | 612.06      | 8493.23                | 612.06      | 8493.23    | 610         | 9129.85  | 610    | 9302.11  | 608.81 |
| 9725.27                                                              | 603.87      | 9908.77                | 601.37      | 9923.75    | 601.14      | 10110.99 | 600    | 10717.65 | 600    |
| 10876.47                                                             | 571.41      | 10976.47               | 571.41      | 11176.47   | 600         | 11642.16 | 603.72 | 13225.49 | 609.31 |
| 13411.76                                                             | 609.63      | 13635.29               | 628.82      | 13691.18   | 637.65      | 13858.82 | 653.18 | 14156.86 | 662.94 |
| 14305.88                                                             | 662.65      | 14343.14               | 661.83      | 14622.55   | 660.11      | 14641.18 | 660.82 | 14864.71 | 670.71 |
| 15088.24                                                             | 695         |                        |             |            |             |          |        |          |        |
| Manning's n Values                                                   |             |                        |             |            |             |          |        |          |        |
| Sta                                                                  | n Val       | Sta                    | n Val       | Sta        | n Val       | Sta      | n Val  | Sta      | n Val  |
| 0                                                                    | .1510717.65 |                        |             | 3          | .1511176.47 |          |        |          |        |
| Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan. |             |                        |             |            |             |          |        |          |        |
| 10717.651176.47 9.74 9.74 9.74 .1 .3                                 |             |                        |             |            |             |          |        |          |        |
| CROSS SECTION OUTPUT Profile #Max WS                                 |             |                        |             |            |             |          |        |          |        |
| E.G. Elev (ft)                                                       | 775.20      | Element                | Left OB     | Channel    | Right OB    |          |        |          |        |
| Vel Head (ft)                                                        | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |          |        |          |        |
| W.S. Elev (ft)                                                       | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |          |        |          |        |
| Crit W.S. (ft)                                                       |             | Flow Area (sq ft)      | 1477793.00  | 88373.29   | 578262.60   |          |        |          |        |
| E.G. Slope (ft/ft)                                                   | 0.000000    | Area (sq ft)           | 1477793.00  | 88373.29   | 578262.60   |          |        |          |        |
| Q Total (cfs)                                                        | 86690.98    | Flow (cfs)             | 58566.56    | 4364.58    | 23759.84    |          |        |          |        |
| Top width (ft)                                                       | 15088.24    | Top width (ft)         | 10717.65    | 458.82     | 3911.77     |          |        |          |        |
| Vel Total (ft/s)                                                     | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |          |        |          |        |
| Max Chl Dpth (ft)                                                    | 203.79      | Hydr. Depth (ft)       | 137.88      | 192.61     | 147.83      |          |        |          |        |
| Conv. Total (cfs)                                                    | 576097700.0 | Conv. (cfs)            | 389199200.0 | 29004470.0 | 157894000.0 |          |        |          |        |
| Length wtd. (ft)                                                     | 9.74        | Wetted Per. (ft)       | 10780.33    | 463.41     | 3995.95     |          |        |          |        |
| Min Ch El (ft)                                                       | 571.41      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |          |        |          |        |
| Alpha                                                                | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |          |        |          |        |
| Frctn Loss (ft)                                                      | 0.00        | Cum Volume (acre-ft)   | 6475.22     | 408.71     | 2605.17     |          |        |          |        |
| C & E Loss (ft)                                                      |             | Cum SA (acres)         | 46.07       | 2.07       | 17.52       |          |        |          |        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1340.55\*

## INPUT

## Description:

| Station Elevation Data |        |          |        |          |        |          |        |          |        |
|------------------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|
| Sta                    | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   |
| 0                      | 720    | 595.75   | 680.28 | 606.99   | 679.93 | 992.92   | 676.07 | 1011.65  | 676.08 |
| 1290.8                 | 677.94 | 1315.15  | 677.76 | 1985.84  | 667.22 | 2023.31  | 667.35 | 2184.42  | 669.77 |
| 2225.64                | 670    | 2780.17  | 670    | 2832.63  | 669.35 | 3773.09  | 650.54 | 3844.28  | 650    |
| 4468.14                | 650    | 4552.44  | 644.76 | 4567.43  | 643.26 | 4653.61  | 640    | 4766.01  | 640    |
| 4855.94                | 637.2  | 5163.18  | 621.84 | 5260.6   | 619.48 | 5858.22  | 614.36 | 5968.76  | 614    |
| 7744.77                | 614    | 7844.06  | 614.62 | 7890.9   | 614.62 | 7992.06  | 615    | 8340.52  | 615    |
| 8340.52                | 611.91 | 8497.89  | 611.91 | 8497.89  | 610    | 9134.86  | 610    | 9307.21  | 608.75 |
| 9730.61                | 603.81 | 9914.21  | 601.29 | 9929.19  | 601.06 | 10116.54 | 600    | 10723.53 | 600    |
| 10885.29               | 571.38 | 10985.29 | 571.38 | 11185.29 | 600    | 11653.43 | 603.81 | 13245.1  | 609.36 |
| 13432.35               | 609.65 | 13657.06 | 629.76 | 13713.24 | 638.53 | 13881.76 | 653.34 | 14181.37 | 663.09 |
| 14331.18               | 662.53 | 14368.63 | 661.71 | 14649.51 | 660.11 | 14668.24 | 660.86 | 14892.94 | 671.24 |
| 15117.65               | 695    |          |        |          |        |          |        |          |        |

Manning's n Values num= 3  
 Sta n Val Sta n Val  
 0 .1510723.53 .1511185.29 .15

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 10723.531185.29 9.74 9.74 9.74 .1 .3

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |  |  |  |  |
|--------------------|-------------|------------------------|-------------|------------|-------------|--|--|--|--|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |  |  |  |  |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |  |  |  |  |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |  |  |  |  |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1478824.00  | 88938.90   | 580771.20   |  |  |  |  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1478824.00  | 88938.90   | 580771.20   |  |  |  |  |
| Q Total (cfs)      | 86690.09    | Flow (cfs)             | 58501.08    | 4384.49    | 23804.52    |  |  |  |  |
| Top width (ft)     | 15117.65    | Top width (ft)         | 10723.53    | 461.76     | 3932.36     |  |  |  |  |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |  |  |  |  |
| Max Chl Dpth (ft)  | 203.82      | Hydr. Depth (ft)       | 137.90      | 192.61     | 147.69      |  |  |  |  |
| Conv. Total (cfs)  | 577197200.0 | Conv. (cfs)            | 389510000.0 | 29192680.0 | 158494500.0 |  |  |  |  |
| Length wtd. (ft)   | 9.74        | Wetted Per. (ft)       | 10786.22    | 466.31     | 4016.49     |  |  |  |  |
| Min Ch El (ft)     | 571.38      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |  |  |  |  |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |  |  |  |  |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 6144.67     | 388.89     | 2475.59     |  |  |  |  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 43.67       | 1.97       | 16.64       |  |  |  |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1330.82\*

## INPUT

## Description:

| Station Elevation Data |        |         |        |         |        |         |        |         |        |
|------------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| Sta                    | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   |
| 0                      | 720    | 596.08  | 680.26 | 607.33  | 679.93 | 993.46  | 676.07 | 1012.21 | 676.08 |
| 1291.5                 | 677.94 | 1315.87 | 677.75 | 1986.93 | 667.21 | 2024.42 | 667.37 | 2185.62 | 669.78 |
| 2226.86                | 670    | 2781.7  | 670    | 2834.18 | 669.32 | 3775.16 | 650.5  | 3846.39 | 650    |

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|          |        |          |        |          |        |          |        |          |        |
|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|
| 4470.59  | 650    | 4554.94  | 644.51 | 4569.93  | 643.01 | 4656.16  | 640    | 4768.63  | 640    |
| 4858.6   | 637.07 | 5166.01  | 621.7  | 5263.48  | 619.46 | 5861.44  | 614.33 | 5972.03  | 614    |
| 7749.02  | 614    | 7848.37  | 614.65 | 7895.23  | 614.65 | 7996.45  | 615    | 8345.1   | 615    |
| 8345.1   | 611.76 | 8502.55  | 611.76 | 8502.55  | 610    | 9139.87  | 610    | 9312.32  | 608.69 |
| 9735.95  | 603.75 | 9919.64  | 601.21 | 9934.64  | 600.98 | 10122.09 | 600    | 10729.41 | 600    |
| 10894.12 | 571.35 | 10994.12 | 571.35 | 11194.12 | 600    | 11664.71 | 603.91 | 13264.71 | 609.41 |
| 13452.94 | 609.68 | 13678.82 | 630.71 | 13735.29 | 639.41 | 13904.71 | 653.49 | 14205.88 | 663.24 |
| 14356.47 | 662.41 | 14394.12 | 661.57 | 14676.47 | 660.11 | 14695.29 | 660.91 | 14921.18 | 671.78 |
| 15147.06 | 695    |          |        |          |        |          |        |          |        |

Manning's n Values      num= 3

| Sta | n Val       | Sta | n Val       | Sta | n Val |
|-----|-------------|-----|-------------|-----|-------|
| 0   | .1510729.41 |     | .1511194.12 |     | .15   |

Bank Sta: Left    Right    Lengths: Left Channel    Right    Coeff Contr.    Expan.

|          |          |      |      |      |    |    |
|----------|----------|------|------|------|----|----|
| 10729.41 | 11194.12 | 9.74 | 9.74 | 9.74 | .1 | .3 |
|----------|----------|------|------|------|----|----|

CROSS SECTION OUTPUT    Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1479848.00  | 89506.47   | 583269.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1479848.00  | 89506.47   | 583269.30   |
| Q Total (cfs)      | 86689.21    | Flow (cfs)             | 58436.11    | 4404.47    | 23848.64    |
| Top width (ft)     | 15147.06    | Top width (ft)         | 10729.41    | 464.71     | 3952.94     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.85      | Hydr. Depth (ft)       | 137.92      | 192.61     | 147.55      |
| Conv. Total (cfs)  | 578289800.0 | Conv. (cfs)            | 389817900.0 | 29381500.0 | 159090400.0 |
| Length wtd. (ft)   | 9.74        | wetted Per. (ft)       | 10792.10    | 469.22     | 4037.03     |
| Min Ch El (ft)     | 571.35      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 5813.89     | 368.94     | 2345.45     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 41.28       | 1.87       | 15.76       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 1321.08\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=   | 56       |        |          |        |          |        |     |      |     |      |     |      |     |      |     |      |     |
|----------|-----------|----------|--------|----------|--------|----------|--------|----------|--------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| Sta      | Elev      | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev | Sta |
| 0        | 720       | 596.41   | 680.24 | 607.66   | 679.92 | 994.01   | 676.06 | 1012.76  | 676.09 |     |      |     |      |     |      |     |      |     |      |     |
| 1292.21  | 677.95    | 1316.59  | 677.74 | 1988.02  | 667.19 | 2025.53  | 667.38 | 2186.82  | 669.8  |     |      |     |      |     |      |     |      |     |      |     |
| 2228.08  | 670       | 2783.22  | 670    | 2835.74  | 669.29 | 3777.23  | 650.46 | 3848.5   | 650    |     |      |     |      |     |      |     |      |     |      |     |
| 4473.04  | 650       | 4557.44  | 644.26 | 4572.44  | 642.76 | 4658.71  | 640    | 4771.24  | 640    |     |      |     |      |     |      |     |      |     |      |     |
| 4861.27  | 636.94    | 5168.85  | 621.56 | 5266.37  | 619.43 | 5864.65  | 614.3  | 5975.31  | 614    |     |      |     |      |     |      |     |      |     |      |     |
| 7753.27  | 614       | 7852.67  | 614.68 | 7899.56  | 614.68 | 8000.83  | 615    | 8349.67  | 615    |     |      |     |      |     |      |     |      |     |      |     |
| 8349.67  | 611.62    | 8507.21  | 611.62 | 8507.21  | 610    | 9144.88  | 610    | 9317.42  | 608.63 |     |      |     |      |     |      |     |      |     |      |     |
| 9741.29  | 603.68    | 9925.08  | 601.12 | 9940.09  | 600.91 | 10127.64 | 600    | 10735.29 | 600    |     |      |     |      |     |      |     |      |     |      |     |
| 10902.94 | 571.32    | 11002.94 | 571.32 | 11202.94 | 600    | 11675.98 | 604    | 13284.31 | 609.46 |     |      |     |      |     |      |     |      |     |      |     |
| 13473.53 | 609.71    | 13700.59 | 631.65 | 13757.35 | 640.29 | 13927.65 | 653.65 | 14230.39 | 663.38 |     |      |     |      |     |      |     |      |     |      |     |
| 14381.76 | 662.29    | 14419.61 | 661.44 | 14703.43 | 660.09 | 14722.35 | 660.95 | 14949.41 | 672.31 |     |      |     |      |     |      |     |      |     |      |     |
| 15176.47 | 695       |          |        |          |        |          |        |          |        |     |      |     |      |     |      |     |      |     |      |     |

Manning's n Values      num= 3

| Sta | n Val       | Sta | n Val       | Sta | n Val |
|-----|-------------|-----|-------------|-----|-------|
| 0   | .1510735.29 |     | .1511202.94 |     | .15   |

Bank Sta: Left    Right    Lengths: Left Channel    Right    Coeff Contr.    Expan.

|          |          |      |      |      |    |    |
|----------|----------|------|------|------|----|----|
| 10735.29 | 11202.94 | 9.74 | 9.74 | 9.74 | .1 | .3 |
|----------|----------|------|------|------|----|----|

## CROSS SECTION OUTPUT    Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1480883.00  | 90072.26   | 585757.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1480883.00  | 90072.26   | 585757.80   |
| Q Total (cfs)      | 86688.33    | Flow (cfs)             | 58372.15    | 4424.28    | 23891.90    |
| Top width (ft)     | 15176.47    | Top width (ft)         | 10735.29    | 467.65     | 3973.53     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.88      | Hydr. Depth (ft)       | 137.95      | 192.61     | 147.42      |
| Conv. Total (cfs)  | 579381600.0 | Conv. (cfs)            | 390130300.0 | 29569700.0 | 159681600.0 |
| Length wtd. (ft)   | 9.74        | wetted Per. (ft)       | 10798.00    | 472.13     | 4057.60     |
| Min Ch El (ft)     | 571.32      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 5482.88     | 348.86     | 2214.75     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 38.88       | 1.76       | 14.87       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC

RS: 1311.35\*

## INPUT

## Description:

| Station | Elevation | Data    | num=   | 56      |        |         |        |         |        |     |      |     |      |     |      |     |      |     |      |     |
|---------|-----------|---------|--------|---------|--------|---------|--------|---------|--------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| Sta     | Elev      | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta     | Elev   | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev | Sta |
| 0       | 720       | 596.73  | 680.22 | 607.99  | 679.92 | 994.55  | 676.05 | 1013.32 | 676.09 |     |      |     |      |     |      |     |      |     |      |     |
| 1292.92 | 677.95    | 1317.31 | 677.73 | 1989.11 | 667.17 | 2026.64 | 667.4  | 2188.02 | 669.82 |     |      |     |      |     |      |     |      |     |      |     |
| 2229.3  | 670       | 2784.75 | 670    | 2837.29 | 669.25 | 3779.3  | 650.41 | 3850.61 | 650    |     |      |     |      |     |      |     |      |     |      |     |
| 4475.49 | 650       | 4559.93 | 644.01 | 4574.95 | 642.51 | 4661.27 | 640    | 4773.86 | 640    |     |      |     |      |     |      |     |      |     |      |     |
| 4863.93 | 636.8     | 5171.68 | 621.42 | 5269.26 | 619.41 | 5867.86 | 614.28 | 5978.58 | 614    |     |      |     |      |     |      |     |      |     |      |     |
| 7757.52 | 614       | 7856.97 | 614.71 | 7903.88 | 614.71 | 8005.22 | 615    | 8354.25 | 615    |     |      |     |      |     |      |     |      |     |      |     |
| 8354.25 | 611.47    | 8511.88 | 611.47 | 8511.88 | 610    | 9149.89 | 610    | 9322.53 | 608.57 |     |      |     |      |     |      |     |      |     |      |     |

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 9746.62 603.62 9930.52 601.04 9945.53 600.8210133.19 60010741.18 600  
 10911.76 571.2911011.76 571.2911211.76 60011687.25 604.0913303.92 609.51  
 13494.12 609.7313722.35 632.5913779.41 641.1813950.59 653.81 14254.9 663.53  
 14407.06 662.18 14445.1 661.3114730.39 660.0814749.41 660.9914977.65 672.85  
 15205.88 695

Manning's n Values num= 3  
 Sta n Val Sta n Val Sta n Val  
 0 .1510741.18 .1511211.76 .15

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 10741.1811211.76 9.74 9.74 9.74 .1 .3

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1481923.00  | 90636.12   | 588246.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1481923.00  | 90636.12   | 588246.80   |
| Q Total (cfs)      | 86687.45    | Flow (cfs)             | 58308.59    | 4443.91    | 23934.95    |
| Top width (ft)     | 15205.88    | Top width (ft)         | 10741.18    | 470.58     | 3994.12     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.91      | Hydr. Depth (ft)       | 137.97      | 192.61     | 147.28      |
| Conv. Total (cfs)  | 580474400.0 | Conv. (cfs)            | 390444500.0 | 29757220.0 | 160272700.0 |
| Length wtd. (ft)   | 9.74        | Wetted Per. (ft)       | 10803.90    | 475.03     | 4078.17     |
| Min Ch El (ft)     | 571.29      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 5151.64     | 328.66     | 2083.50     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 36.47       | 1.66       | 13.98       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1301.61\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=   | 56       | Sta    | Elev     | Sta    | Elev     | Sta    | Elev | Sta | Elev |
|----------|-----------|----------|--------|----------|--------|----------|--------|----------|--------|------|-----|------|
| 0        | 720       | 597.06   | 680.2  | 608.32   | 679.92 | 995.1    | 676.05 | 1013.87  | 676.09 |      |     |      |
| 1293.63  | 677.96    | 1318.04  | 677.72 | 1990.2   | 667.15 | 2027.75  | 667.42 | 2189.22  | 669.84 |      |     |      |
| 2230.52  | 670       | 2786.27  | 670    | 2838.85  | 669.22 | 3781.37  | 650.37 | 3852.72  | 650    |      |     |      |
| 4477.94  | 650       | 4562.43  | 643.76 | 4577.45  | 642.25 | 4663.82  | 640    | 4776.47  | 640    |      |     |      |
| 4866.59  | 636.67    | 5174.51  | 621.27 | 5272.14  | 619.38 | 5871.08  | 614.25 | 5981.85  | 614    |      |     |      |
| 7761.76  | 614       | 7861.27  | 614.74 | 7908.21  | 614.74 | 8009.6   | 615    | 8358.82  | 615    |      |     |      |
| 8358.82  | 611.32    | 8516.54  | 611.32 | 8516.54  | 610    | 9154.9   | 610    | 9327.64  | 608.51 |      |     |      |
| 9751.96  | 603.56    | 9935.96  | 600.96 | 9950.98  | 600.74 | 10138.74 | 600    | 10747.06 | 600    |      |     |      |
| 10920.59 | 571.26    | 11020.59 | 571.26 | 11220.59 | 600    | 11698.53 | 604.18 | 13323.53 | 609.56 |      |     |      |
| 13514.71 | 609.76    | 13744.12 | 633.53 | 13801.47 | 642.06 | 13973.53 | 653.97 | 14279.41 | 663.68 |      |     |      |
| 14432.35 | 662.06    | 14470.59 | 661.18 | 14757.35 | 660.07 | 14776.47 | 661.03 | 15005.88 | 673.38 |      |     |      |
| 15235.29 | 695       |          |        |          |        |          |        |          |        |      |     |      |

Manning's n Values num= 3  
 Sta n Val Sta n Val Sta n Val  
 0 .1510747.06 .1511220.59 .15

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 10747.0611220.59 9.74 9.74 9.74 .1 .3

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1482954.00  | 91203.94   | 590730.60   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1482954.00  | 91203.94   | 590730.60   |
| Q Total (cfs)      | 86686.57    | Flow (cfs)             | 58245.20    | 4463.69    | 23977.68    |
| Top width (ft)     | 15235.29    | Top width (ft)         | 10747.06    | 473.53     | 4014.70     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.94      | Hydr. Depth (ft)       | 137.99      | 192.60     | 147.14      |
| Conv. Total (cfs)  | 581563300.0 | Conv. (cfs)            | 390755600.0 | 29946020.0 | 160861600.0 |
| Length wtd. (ft)   | 9.74        | Wetted Per. (ft)       | 10809.79    | 477.95     | 4098.75     |
| Min Ch El (ft)     | 571.26      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 4820.17     | 308.33     | 1951.69     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 34.07       | 1.55       | 13.08       |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1291.88\*

## INPUT

## Description:

| Station  | Elevation | Data     | num=   | 56       | Sta    | Elev     | Sta    | Elev     | Sta    | Elev | Sta | Elev |
|----------|-----------|----------|--------|----------|--------|----------|--------|----------|--------|------|-----|------|
| 0        | 720       | 597.39   | 680.17 | 608.66   | 679.91 | 995.64   | 676.04 | 1014.43  | 676.1  |      |     |      |
| 1294.34  | 677.96    | 1318.76  | 677.71 | 1991.29  | 667.14 | 2028.86  | 667.43 | 2190.41  | 669.86 |      |     |      |
| 2231.74  | 670       | 2787.8   | 670    | 2840.4   | 669.19 | 3783.44  | 650.33 | 3854.83  | 650    |      |     |      |
| 4480.39  | 650       | 4564.93  | 643.51 | 4579.96  | 642    | 4666.37  | 640    | 4779.08  | 640    |      |     |      |
| 4869.26  | 636.54    | 5177.34  | 621.13 | 5275.03  | 619.36 | 5874.29  | 614.22 | 5985.13  | 614    |      |     |      |
| 7766.01  | 614       | 7865.58  | 614.76 | 7912.54  | 614.76 | 8013.98  | 615    | 8363.4   | 615    |      |     |      |
| 8363.4   | 611.18    | 8521.2   | 611.18 | 8521.2   | 610    | 9159.91  | 610    | 9332.74  | 608.45 |      |     |      |
| 9757.3   | 603.5     | 9941.4   | 600.88 | 9956.43  | 600.65 | 10144.28 | 600    | 10752.94 | 600    |      |     |      |
| 10929.41 | 571.24    | 11029.41 | 571.24 | 11229.41 | 600    | 11709.8  | 604.27 | 13343.14 | 609.61 |      |     |      |
| 13535.29 | 609.79    | 13765.88 | 634.47 | 13823.53 | 642.94 | 13996.47 | 654.13 | 14303.92 | 663.82 |      |     |      |
| 14457.65 | 661.94    | 14496.08 | 661.05 | 14784.31 | 660.07 | 14803.53 | 661.07 | 15034.12 | 673.92 |      |     |      |



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15264.71 695

Manning's n Values num= 3  
Sta n Val Sta n Val  
0 .1510752.94 .1511229.41 .15

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
10752.9411229.41 9.74 9.74 .1 .3

CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1483986.00  | 91766.94   | 593209.70   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1483986.00  | 91766.94   | 593209.70   |
| Q Total (cfs)      | 86685.68    | Flow (cfs)             | 58182.52    | 4483.12    | 24020.05    |
| Top Width (ft)     | 15264.71    | Top width (ft)         | 10752.94    | 476.47     | 4035.30     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.96      | Hydr. Depth (ft)       | 138.01      | 192.60     | 147.01      |
| Conv. Total (cfs)  | 582647000.0 | Conv. (cfs)            | 391066600.0 | 30132700.0 | 161447800.0 |
| Length wtd. (ft)   | 9.74        | wetted Per. (ft)       | 10815.69    | 480.86     | 4119.35     |
| Min Ch El (ft)     | 571.24      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 4488.47     | 287.87     | 1819.32     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 31.67       | 1.45       | 12.18       |

warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1282.14\*

## INPUT

Description:  
Station Elevation Data num= 56

| Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   |
|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|
| 0        | 720    | 597.71   | 680.15 | 608.99   | 679.91 | 996.19   | 676.04 | 1014.98  | 676.1  |
| 1295.04  | 677.97 | 1319.48  | 677.69 | 1992.37  | 667.12 | 2029.97  | 667.45 | 2191.61  | 669.87 |
| 2232.96  | 670    | 2789.32  | 670    | 2841.95  | 669.16 | 3785.51  | 650.29 | 3856.94  | 650    |
| 4482.84  | 650    | 4567.43  | 643.26 | 4582.46  | 641.75 | 4668.92  | 640    | 4781.7   | 640    |
| 4871.92  | 636.4  | 5180.17  | 620.99 | 5277.91  | 619.33 | 5877.51  | 614.19 | 5988.4   | 614    |
| 7770.26  | 614    | 7869.88  | 614.79 | 7916.87  | 614.79 | 8018.37  | 615    | 8367.97  | 615    |
| 8367.97  | 611.03 | 8525.86  | 611.03 | 8525.86  | 610    | 9164.92  | 610    | 9337.85  | 608.39 |
| 9762.64  | 603.44 | 9946.84  | 600.8  | 9961.87  | 600.57 | 10149.83 | 600    | 10758.82 | 600    |
| 10938.24 | 571.21 | 11038.24 | 571.21 | 11238.24 | 600    | 11721.08 | 604.36 | 13362.75 | 609.66 |
| 13555.88 | 609.81 | 13787.65 | 635.41 | 13845.59 | 643.82 | 14019.41 | 654.29 | 14328.43 | 663.97 |
| 14482.94 | 661.82 | 14521.57 | 660.92 | 14811.27 | 660.06 | 14830.59 | 661.11 | 15062.35 | 674.45 |
| 15294.12 | 695    |          |        |          |        |          |        |          |        |

Manning's n Values num= 3  
Sta n Val Sta n Val  
0 .1510758.82 .1511238.24 .15

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
10758.8211238.24 9.74 9.74 .1 .3

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1485023.00  | 92334.91   | 595684.50   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1485023.00  | 92334.91   | 595684.50   |
| Q Total (cfs)      | 86684.80    | Flow (cfs)             | 58120.13    | 4502.76    | 24061.90    |
| Top Width (ft)     | 15294.12    | Top width (ft)         | 10758.82    | 479.42     | 4055.88     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 203.99      | Hydr. Depth (ft)       | 138.03      | 192.60     | 146.87      |
| Conv. Total (cfs)  | 583733700.0 | Conv. (cfs)            | 391379800.0 | 30321490.0 | 162032400.0 |
| Length wtd. (ft)   | 9.74        | wetted Per. (ft)       | 10821.59    | 483.78     | 4139.94     |
| Min Ch El (ft)     | 571.21      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 4156.53     | 267.29     | 1686.40     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 29.26       | 1.34       | 11.28       |

warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1272.41\*

## INPUT

Description:  
Station Elevation Data num= 56

| Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   |
|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|
| 0        | 720    | 598.04   | 680.13 | 609.32   | 679.91 | 996.73   | 676.03 | 1015.54  | 676.1  |
| 1295.75  | 677.97 | 1320.2   | 677.68 | 1993.46  | 667.1  | 2031.08  | 667.47 | 2192.81  | 669.89 |
| 2234.18  | 670    | 2790.85  | 670    | 2843.51  | 669.13 | 3787.58  | 650.25 | 3859.05  | 650    |
| 4485.29  | 650    | 4569.92  | 643.01 | 4584.97  | 641.5  | 4671.48  | 640    | 4784.31  | 640    |
| 4874.58  | 636.27 | 5183.01  | 620.85 | 5280.8   | 619.31 | 5880.72  | 614.17 | 5991.68  | 614    |
| 7774.51  | 614    | 7874.18  | 614.82 | 7921.2   | 614.82 | 8022.75  | 615    | 8372.55  | 615    |
| 8372.55  | 610.88 | 8530.52  | 610.88 | 8530.52  | 610    | 9169.93  | 610    | 9342.95  | 608.33 |
| 9767.97  | 603.37 | 9952.28  | 600.72 | 9967.32  | 600.49 | 10155.38 | 600    | 10764.71 | 600    |
| 10947.06 | 571.18 | 11047.06 | 571.18 | 11247.06 | 600    | 11732.35 | 604.45 | 13382.35 | 609.71 |
| 13576.47 | 609.84 | 13809.41 | 636.35 | 13867.65 | 644.71 | 14042.35 | 654.45 | 14352.94 | 664.12 |
| 14508.24 | 661.71 | 14547.06 | 660.78 | 14838.24 | 660.05 | 14857.65 | 661.15 | 15090.59 | 674.99 |
| 15323.53 | 695    |          |        |          |        |          |        |          |        |

Manning's n Values num= 3  
Sta n Val Sta n Val  
0 .1510758.82 .1511238.24 .15

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## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1488114.00  | 94033.67   | 603080.40   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1488114.00  | 94033.67   | 603080.40   |
| Q Total (cfs)      | 86682.14    | Flow (cfs)             | 57935.50    | 4561.18    | 24185.46    |
| Top width (ft)     | 15382.35    | Top width (ft)         | 10776.47    | 488.24     | 4117.64     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 204.08      | Hydr. Depth (ft)       | 138.09      | 192.60     | 146.46      |
| Conv. Total (cfs)  | 586968500.0 | Conv. (cfs)            | 392310500.0 | 30886020.0 | 163772000.0 |
| Length Wtd. (ft)   | 9.74        | Wetted Per. (ft)       | 10839.31    | 492.52     | 4201.79     |
| Min Ch El (ft)     | 571.12      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 3159.34     | 204.78     | 1284.34     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 22.04       | 1.02       | 8.54        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 1243.20\*

## INPUT

## Description:

| Station Elevation Data |        |          | num=   | 56       |        |          |        |          |        |     |      |     |      |     |      |     |      |     |      |     |      |
|------------------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|
| Sta                    | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev |
| 0                      | 720    | 599.02   | 680.07 | 610.32   | 679.9  | 998.37   | 676.02 | 1017.2   | 676.11 |     |      |     |      |     |      |     |      |     |      |     |      |
| 1297.88                | 677.99 | 1322.36  | 677.65 | 1996.73  | 667.05 | 2034.41  | 667.52 | 2196.41  | 669.95 |     |      |     |      |     |      |     |      |     |      |     |      |
| 2237.85                | 670    | 2795.42  | 670    | 2848.17  | 669.04 | 3793.79  | 650.12 | 3865.37  | 650    |     |      |     |      |     |      |     |      |     |      |     |      |
| 4492.65                | 650    | 4577.41  | 642.26 | 4592.48  | 640.75 | 4679.13  | 640    | 4792.16  | 640    |     |      |     |      |     |      |     |      |     |      |     |      |
| 4882.57                | 635.87 | 5191.5   | 620.42 | 5289.46  | 619.23 | 5890.36  | 614.08 | 6001.5   | 614    |     |      |     |      |     |      |     |      |     |      |     |      |
| 7787.25                | 614    | 7887.09  | 614.91 | 7934.18  | 614.91 | 8035.9   | 615    | 8386.27  | 615    |     |      |     |      |     |      |     |      |     |      |     |      |
| 8386.27                | 610.44 | 8544.51  | 610.44 | 8544.51  | 610    | 9184.97  | 610    | 9358.27  | 608.15 |     |      |     |      |     |      |     |      |     |      |     |      |
| 9783.99                | 603.19 | 9968.59  | 600.47 | 9983.66  | 600.25 | 10172.03 | 600    | 10782.35 | 600    |     |      |     |      |     |      |     |      |     |      |     |      |
| 10973.53               | 571.09 | 1073.53  | 571.09 | 11273.53 | 600    | 11766.18 | 604.73 | 13441.18 | 609.85 |     |      |     |      |     |      |     |      |     |      |     |      |
| 13638.24               | 609.92 | 13874.71 | 639.18 | 13933.82 | 647.35 | 14111.18 | 654.92 | 14426.47 | 664.56 |     |      |     |      |     |      |     |      |     |      |     |      |
| 14584.12               | 661.35 | 14623.53 | 660.39 | 14919.12 | 660.02 | 14938.82 | 661.28 | 15175.29 | 676.59 |     |      |     |      |     |      |     |      |     |      |     |      |
| 15411.76               | 695    |          |        |          |        |          |        |          |        |     |      |     |      |     |      |     |      |     |      |     |      |

## Manning's n Values

| Sta | n Val       | Sta | n Val | Sta | n Val |
|-----|-------------|-----|-------|-----|-------|
| 0   | .1510782.35 |     |       |     |       |

| Bank Sta: | Left     | Right    | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|----------|----------|----------|------|---------|-------|-------|--------|--------|
|           | 10782.35 | 11273.53 |          | 9.74 | 9.74    | 9.74  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1489153.00  | 94600.16   | 605521.40   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1489153.00  | 94600.16   | 605521.40   |
| Q Total (cfs)      | 86681.25    | Flow (cfs)             | 57875.68    | 4580.57    | 24225.00    |
| Top width (ft)     | 15411.76    | Top width (ft)         | 10782.35    | 491.18     | 4138.23     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 204.11      | Hydr. Depth (ft)       | 138.11      | 192.60     | 146.32      |
| Conv. Total (cfs)  | 588039000.0 | Conv. (cfs)            | 392624200.0 | 31074240.0 | 164340600.0 |
| Length Wtd. (ft)   | 9.74        | Wetted Per. (ft)       | 10845.22    | 495.43     | 4222.43     |
| Min Ch El (ft)     | 571.09      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 2826.48     | 183.69     | 1149.21     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 19.63       | 0.91       | 7.62        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 1233.47\*

## INPUT

## Description:

| Station Elevation Data |        |          | num=   | 56       |        |          |        |          |        |     |      |     |      |     |      |     |      |     |      |     |      |
|------------------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|
| Sta                    | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev | Sta | Elev |
| 0                      | 720    | 599.35   | 680.04 | 610.65   | 679.89 | 998.91   | 676.01 | 1017.76  | 676.12 |     |      |     |      |     |      |     |      |     |      |     |      |
| 1298.58                | 677.99 | 1323.09  | 677.64 | 1997.82  | 667.03 | 2035.52  | 667.53 | 2197.6   | 669.96 |     |      |     |      |     |      |     |      |     |      |     |      |
| 2239.07                | 670    | 2796.95  | 670    | 2849.72  | 669.01 | 3795.86  | 650.08 | 3867.48  | 650    |     |      |     |      |     |      |     |      |     |      |     |      |
| 4495.1                 | 650    | 4579.91  | 642.01 | 4594.99  | 640.5  | 4681.69  | 640    | 4794.77  | 640    |     |      |     |      |     |      |     |      |     |      |     |      |
| 4885.24                | 635.74 | 5194.34  | 620.28 | 5292.34  | 619.21 | 5893.57  | 614.06 | 6004.77  | 614    |     |      |     |      |     |      |     |      |     |      |     |      |
| 7791.5                 | 614    | 7891.39  | 614.94 | 7938.51  | 614.94 | 8040.29  | 615    | 8390.85  | 615    |     |      |     |      |     |      |     |      |     |      |     |      |
| 8390.85                | 610.29 | 8549.17  | 610.29 | 8549.17  | 610    | 9189.98  | 610    | 9363.37  | 608.09 |     |      |     |      |     |      |     |      |     |      |     |      |
| 9789.32                | 603.12 | 9974.03  | 600.39 | 9989.11  | 600.16 | 10177.58 | 600    | 10788.24 | 600    |     |      |     |      |     |      |     |      |     |      |     |      |
| 10982.35               | 571.06 | 11082.35 | 571.06 | 11282.35 | 600    | 11777.45 | 604.82 | 13460.78 | 609.9  |     |      |     |      |     |      |     |      |     |      |     |      |
| 13658.82               | 609.95 | 13896.47 | 640.12 | 13955.88 | 648.24 | 14134.12 | 655.08 | 14450.98 | 664.71 |     |      |     |      |     |      |     |      |     |      |     |      |
| 14609.41               | 661.24 | 14649.02 | 660.26 | 14946.08 | 660.02 | 14965.88 | 661.32 | 15203.53 | 677.13 |     |      |     |      |     |      |     |      |     |      |     |      |
| 15441.18               | 695    |          |        |          |        |          |        |          |        |     |      |     |      |     |      |     |      |     |      |     |      |

## Manning's n Values

| Sta | n Val       | Sta | n Val | Sta | n Val |
|-----|-------------|-----|-------|-----|-------|
| 0   | .1510788.24 |     |       |     |       |

| Bank Sta: | Left     | Right    | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|----------|----------|----------|------|---------|-------|-------|--------|--------|
|           | 10788.24 | 11282.35 |          | 9.74 | 9.74    | 9.74  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                |        |         |         |         |          |
|----------------|--------|---------|---------|---------|----------|
| E.G. Elev (ft) | 775.20 | Element | Left OB | Channel | Right OB |
|----------------|--------|---------|---------|---------|----------|

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|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
|                    |             | TXU_Rev1.rep           |             |            |             |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1490191.00  | 95164.52   | 607962.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1490191.00  | 95164.52   | 607962.30   |
| Q Total (cfs)      | 86680.36    | Flow (cfs)             | 57816.18    | 4599.80    | 24264.38    |
| Top Width (ft)     | 15441.18    | Top Width (ft)         | 10788.24    | 494.11     | 4158.83     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 204.14      | Hydr. Depth (ft)       | 138.13      | 192.60     | 146.19      |
| Conv. Total (cfs)  | 589108200.0 | Conv. (cfs)            | 392937800.0 | 31261730.0 | 164908700.0 |
| Length wtd. (ft)   | 9.74        | Wetted Per. (ft)       | 10851.14    | 498.34     | 4243.09     |
| Min Ch El (ft)     | 571.06      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 2493.39     | 162.48     | 1013.55     |
| C & E Loss (ft)    |             | Cum SA (acres)         | 17.22       | 0.80       | 6.69        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 1223.73\*

## INPUT

## Description:

| Station Elevation Data |        | num=     | 56     |          |        |          |        |          |        |
|------------------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|
| Sta                    | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   | Sta      | Elev   |
| 0                      | 720    | 599.67   | 680.02 | 610.99   | 679.89 | 999.46   | 676.01 | 1018.31  | 676.12 |
| 1299.29                | 678    | 1323.81  | 677.63 | 1998.91  | 667.02 | 2036.63  | 667.55 | 2198.8   | 669.98 |
| 2240.29                | 670    | 2798.47  | 670    | 2851.28  | 668.97 | 3797.93  | 650.04 | 3869.59  | 650    |
| 4497.55                | 650    | 4582.41  | 641.76 | 4597.49  | 640.25 | 4684.24  | 640    | 4797.39  | 640    |
| 4887.9                 | 635.6  | 5197.17  | 620.14 | 5295.23  | 619.18 | 5896.79  | 614.03 | 6008.05  | 614    |
| 7795.75                | 614    | 7895.7   | 614.97 | 7942.84  | 614.97 | 8044.67  | 615    | 8395.42  | 615    |
| 8395.42                | 610.15 | 8553.83  | 610.15 | 8553.83  | 610    | 9194.99  | 610    | 9368.48  | 608.03 |
| 9794.66                | 603.06 | 9979.47  | 600.31 | 9994.55  | 600.08 | 10183.13 | 600    | 10794.12 | 600    |
| 10991.18               | 571.03 | 11091.18 | 571.03 | 11291.18 | 600    | 11788.73 | 604.91 | 13480.39 | 609.95 |
| 13679.41               | 609.97 | 13918.24 | 641.06 | 13977.94 | 649.12 | 14157.06 | 655.24 | 14475.49 | 664.85 |
| 14634.71               | 661.12 | 14674.51 | 660.13 | 14973.04 | 660.01 | 14992.94 | 661.36 | 15231.76 | 677.66 |
| 15470.59               | 695    |          |        |          |        |          |        |          |        |

## Manning's n Values

| Sta | n Val | Sta      | n Val | Sta      | n Val |
|-----|-------|----------|-------|----------|-------|
| 0   | .15   | 10794.12 | .15   | 11291.18 | .15   |

| Bank Sta: | Left     | Right    | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|----------|----------|----------|------|---------|-------|-------|--------|--------|
|           | 10794.12 | 11291.18 |          | 9.74 | 9.74    | 9.74  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 9.74        | 9.74       | 9.74        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1491225.00  | 95733.03   | 610405.80   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1491225.00  | 95733.03   | 610405.80   |
| Q Total (cfs)      | 86679.47    | Flow (cfs)             | 57756.50    | 4619.15    | 24303.83    |
| Top Width (ft)     | 15470.59    | Top Width (ft)         | 10794.12    | 497.06     | 4179.41     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 204.17      | Hydr. Depth (ft)       | 138.15      | 192.60     | 146.05      |
| Conv. Total (cfs)  | 590178300.0 | Conv. (cfs)            | 393249200.0 | 31450590.0 | 165478500.0 |
| Length wtd. (ft)   | 9.74        | Wetted Per. (ft)       | 10857.05    | 501.26     | 4263.73     |
| Min Ch El (ft)     | 571.03      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 2160.07     | 141.14     | 877.33      |
| C & E Loss (ft)    |             | Cum SA (acres)         | 14.81       | 0.69       | 5.76        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC

RS: 1214

## INPUT

## Description:

| Station Elevation Data |      | num=  | 32   |       |      |       |      |       |      |
|------------------------|------|-------|------|-------|------|-------|------|-------|------|
| Sta                    | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev | Sta   | Elev |
| 0                      | 720  | 600   | 680  | 1000  | 676  | 1300  | 678  | 2000  | 667  |
| 2200                   | 670  | 2800  | 670  | 3800  | 650  | 4500  | 650  | 4600  | 640  |
| 4800                   | 640  | 5200  | 620  | 5900  | 614  | 7800  | 614  | 7900  | 615  |
| 8400                   | 615  | 8400  | 610  | 9200  | 610  | 9800  | 603  | 10000 | 600  |
| 10800                  | 600  | 11000 | 571  | 11100 | 571  | 11300 | 600  | 11800 | 605  |
| 13500                  | 610  | 13700 | 610  | 14000 | 650  | 14500 | 665  | 14700 | 660  |
| 15000                  | 660  | 15500 | 695  |       |      |       |      |       |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10800 | .15   | 11300 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
|           | 10800 | 11300 |          | 2.94 | 2.94    | 2.94  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                   |             |            |             |
|--------------------|-------------|-------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element           | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.        | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)   | 2.94        | 2.94       | 2.94        |
| Crit W.S. (ft)     |             | Flow Area (sq ft) | 1492255.00  | 96299.79   | 612838.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)      | 1492255.00  | 96299.79   | 612838.30   |
| Q Total (cfs)      | 86678.58    | Flow (cfs)        | 57697.55    | 4638.39    | 24342.63    |
| Top Width (ft)     | 15500.00    | Top Width (ft)    | 10800.00    | 500.00     | 4200.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)  | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 204.20      | Hydr. Depth (ft)  | 138.17      | 192.60     | 145.91      |
| Conv. Total (cfs)  | 591241300.0 | Conv. (cfs)       | 393559500.0 | 31638840.0 | 166043000.0 |

|                  |        |                        |              |        |         |
|------------------|--------|------------------------|--------------|--------|---------|
|                  |        |                        | TXU_Rev1.rep |        |         |
| Length wtd. (ft) | 2.94   | Wetted Per. (ft)       | 10862.96     | 504.18 | 4284.40 |
| Min Ch El (ft)   | 571.00 | Shear (lb/sq ft)       | 0.00         | 0.00   | 0.00    |
| Alpha            | 1.01   | Stream Power (lb/ft s) | 0.00         | 0.00   | 0.00    |
| Frctn Loss (ft)  | 0.00   | Cum Volume (acre-ft)   | 1826.52      | 119.67 | 740.58  |
| C & E Loss (ft)  |        | Cum SA (acres)         | 12.39        | 0.57   | 4.82    |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 1211.05\*

## INPUT

## Description:

| Station | Elevation | Data  | num=   | 32    | Sta    | Elev  | Sta | Elev  | Sta | Elev |
|---------|-----------|-------|--------|-------|--------|-------|-----|-------|-----|------|
| 0       | 720       | 600   | 680    | 1000  | 676    | 1300  | 678 | 2000  | 667 |      |
| 2200    | 670       | 2800  | 670    | 3800  | 650    | 4500  | 650 | 4600  | 640 |      |
| 4800    | 640       | 5200  | 620    | 5900  | 614    | 7800  | 614 | 7900  | 615 |      |
| 8400    | 615       | 8400  | 610    | 9200  | 610    | 9800  | 603 | 10000 | 600 |      |
| 10800   | 600       | 11000 | 570.94 | 11100 | 570.94 | 11300 | 600 | 11800 | 605 |      |
| 13500   | 610       | 13700 | 610    | 14000 | 650    | 14500 | 665 | 14700 | 660 |      |
| 15000   | 660       | 15500 | 695    |       |        |       |     |       |     |      |

|                    |           |           |
|--------------------|-----------|-----------|
| Manning's n Values | num=      | 3         |
| Sta n Val          | Sta n Val | Sta n Val |
| 0 .15 10800        | .15 11300 | .15       |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 10800          | 11300 | 2.94          | 2.94    | 2.94  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | WT. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 2.94        | 2.94       | 2.94        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1492255.00  | 96317.79   | 612838.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1492255.00  | 96317.79   | 612838.30   |
| Q Total (cfs)      | 94661.01    | Flow (cfs)             | 63010.08    | 5066.94    | 26583.99    |
| Top width (ft)     | 15500.00    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 204.26      | Hydr. Depth (ft)       | 138.17      | 192.64     | 145.91      |
| Conv. Total (cfs)  | 591250400.0 | Conv. (cfs)            | 393559500.0 | 31647980.0 | 166043000.0 |
| Length wtd. (ft)   | 2.94        | Wetted Per. (ft)       | 10862.96    | 504.20     | 4284.40     |
| Min Ch El (ft)     | 570.94      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 1725.80     | 113.17     | 699.21      |
| C & E Loss (ft)    |             | Cum SA (acres)         | 11.66       | 0.54       | 4.54        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 1208.11\*

## INPUT

## Description:

| Station | Elevation | Data  | num=   | 32    | Sta    | Elev  | Sta | Elev  | Sta | Elev |
|---------|-----------|-------|--------|-------|--------|-------|-----|-------|-----|------|
| 0       | 720       | 600   | 680    | 1000  | 676    | 1300  | 678 | 2000  | 667 |      |
| 2200    | 670       | 2800  | 670    | 3800  | 650    | 4500  | 650 | 4600  | 640 |      |
| 4800    | 640       | 5200  | 620    | 5900  | 614    | 7800  | 614 | 7900  | 615 |      |
| 8400    | 615       | 8400  | 610    | 9200  | 610    | 9800  | 603 | 10000 | 600 |      |
| 10800   | 600       | 11000 | 570.88 | 11100 | 570.88 | 11300 | 600 | 11800 | 605 |      |
| 13500   | 610       | 13700 | 610    | 14000 | 650    | 14500 | 665 | 14700 | 660 |      |
| 15000   | 660       | 15500 | 695    |       |        |       |     |       |     |      |

|                    |           |           |
|--------------------|-----------|-----------|
| Manning's n Values | num=      | 3         |
| Sta n Val          | Sta n Val | Sta n Val |
| 0 .15 10800        | .15 11300 | .15       |

|                |       |               |         |       |       |        |        |
|----------------|-------|---------------|---------|-------|-------|--------|--------|
| Bank Sta: Left | Right | Lengths: Left | Channel | Right | Coeff | Contr. | Expan. |
| 10800          | 11300 | 2.94          | 2.94    | 2.94  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | WT. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 2.94        | 2.94       | 2.94        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1492255.00  | 96335.79   | 612838.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1492255.00  | 96335.79   | 612838.30   |
| Q Total (cfs)      | 94660.73    | Flow (cfs)             | 63008.92    | 5068.31    | 26583.50    |
| Top width (ft)     | 15500.00    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 204.32      | Hydr. Depth (ft)       | 138.17      | 192.67     | 145.91      |
| Conv. Total (cfs)  | 591259500.0 | Conv. (cfs)            | 393559500.0 | 31657110.0 | 166043000.0 |
| Length wtd. (ft)   | 2.94        | Wetted Per. (ft)       | 10862.96    | 504.22     | 4284.40     |
| Min Ch El (ft)     | 570.88      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 1625.09     | 106.67     | 657.85      |
| C & E Loss (ft)    |             | Cum SA (acres)         | 10.93       | 0.51       | 4.25        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC RS: 1205.17\*

TXU\_Rev1.rep

## INPUT

## Description:

| Station | Elevation | Data  | num=   | 32    | Elev   | Sta   | Elev | Sta   | Elev | Sta | Elev |
|---------|-----------|-------|--------|-------|--------|-------|------|-------|------|-----|------|
| Sta     | Elev      | Sta   | Elev   | Sta   | Elev   | Sta   | Elev | Sta   | Elev | Sta | Elev |
| 0       | 720       | 600   | 680    | 1000  | 676    | 1300  | 678  | 2000  | 667  |     |      |
| 2200    | 670       | 2800  | 670    | 3800  | 650    | 4500  | 650  | 4600  | 640  |     |      |
| 4800    | 640       | 5200  | 620    | 5900  | 614    | 7800  | 614  | 7900  | 615  |     |      |
| 8400    | 615       | 8400  | 610    | 9200  | 610    | 9800  | 603  | 10000 | 600  |     |      |
| 10800   | 600       | 11000 | 570.82 | 11100 | 570.82 | 11300 | 600  | 11800 | 605  |     |      |
| 13500   | 610       | 13700 | 610    | 14000 | 650    | 14500 | 665  | 14700 | 660  |     |      |
| 15000   | 660       | 15500 | 695    |       |        |       |      |       |      |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10800 | .15   |
|     |       | 11300 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10800 | 11300 | 2.94     | 2.94         | 2.94  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | 0.150       | 0.150      | 0.150       |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 2.94        | 2.94       | 2.94        |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 1492255.00  | 96353.79   | 612838.30   |
| Crit W.S. (ft)     |             | Area (sq ft)           | 1492255.00  | 96353.79   | 612838.30   |
| E.G. Slope (ft/ft) | 0.000000    | Flow (cfs)             | 63007.77    | 5069.68    | 26583.01    |
| Q Total (cfs)      | 94660.46    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |
| Top width (ft)     | 15500.00    | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Vel Total (ft/s)   | 0.04        | Hydr. Depth (ft)       | 138.17      | 192.71     | 145.91      |
| Max Chl Dpth (ft)  | 204.38      | Conv. (cfs)            | 393559500.0 | 31666250.0 | 166043000.0 |
| Conv. Total (cfs)  | 591268700.0 | Wetted Per. (ft)       | 10862.96    | 504.24     | 4284.40     |
| Length wtd. (ft)   | 2.94        | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Min Ch El (ft)     | 570.82      | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Cum Volume (acre-ft)   | 1524.37     | 100.16     | 616.49      |
| Frctn Loss (ft)    | 0.00        | Cum SA (acres)         | 10.20       | 0.47       | 3.97        |
| C & E Loss (ft)    |             |                        |             |            |             |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC RS: 1202.23\*

## INPUT

## Description:

| Station | Elevation | Data  | num=   | 32    | Elev   | Sta   | Elev | Sta   | Elev | Sta | Elev |
|---------|-----------|-------|--------|-------|--------|-------|------|-------|------|-----|------|
| Sta     | Elev      | Sta   | Elev   | Sta   | Elev   | Sta   | Elev | Sta   | Elev | Sta | Elev |
| 0       | 720       | 600   | 680    | 1000  | 676    | 1300  | 678  | 2000  | 667  |     |      |
| 2200    | 670       | 2800  | 670    | 3800  | 650    | 4500  | 650  | 4600  | 640  |     |      |
| 4800    | 640       | 5200  | 620    | 5900  | 614    | 7800  | 614  | 7900  | 615  |     |      |
| 8400    | 615       | 8400  | 610    | 9200  | 610    | 9800  | 603  | 10000 | 600  |     |      |
| 10800   | 600       | 11000 | 570.76 | 11100 | 570.76 | 11300 | 600  | 11800 | 605  |     |      |
| 13500   | 610       | 13700 | 610    | 14000 | 650    | 14500 | 665  | 14700 | 660  |     |      |
| 15000   | 660       | 15500 | 695    |       |        |       |      |       |      |     |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10800 | .15   |
|     |       | 11300 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10800 | 11300 | 2.94     | 2.94         | 2.94  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | 0.150       | 0.150      | 0.150       |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 2.94        | 2.94       | 2.94        |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 1492255.00  | 96371.79   | 612838.30   |
| Crit W.S. (ft)     |             | Area (sq ft)           | 1492255.00  | 96371.79   | 612838.30   |
| E.G. Slope (ft/ft) | 0.000000    | Flow (cfs)             | 63006.61    | 5071.05    | 26582.53    |
| Q Total (cfs)      | 94660.19    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |
| Top width (ft)     | 15500.00    | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Vel Total (ft/s)   | 0.04        | Hydr. Depth (ft)       | 138.17      | 192.74     | 145.91      |
| Max Chl Dpth (ft)  | 204.44      | Conv. (cfs)            | 393559500.0 | 31675380.0 | 166043000.0 |
| Conv. Total (cfs)  | 591277800.0 | Wetted Per. (ft)       | 10862.96    | 504.25     | 4284.40     |
| Length wtd. (ft)   | 2.94        | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Min Ch El (ft)     | 570.76      | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Cum Volume (acre-ft)   | 1423.65     | 93.66      | 575.13      |
| Frctn Loss (ft)    | 0.00        | Cum SA (acres)         | 9.48        | 0.44       | 3.69        |
| C & E Loss (ft)    |             |                        |             |            |             |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK

REACH: SC RS: 1199.29\*

## INPUT

## Description:

| Station | Elevation | Data  | num=   | 32    | Elev   | Sta   | Elev | Sta   | Elev | Sta | Elev |
|---------|-----------|-------|--------|-------|--------|-------|------|-------|------|-----|------|
| Sta     | Elev      | Sta   | Elev   | Sta   | Elev   | Sta   | Elev | Sta   | Elev | Sta | Elev |
| 0       | 720       | 600   | 680    | 1000  | 676    | 1300  | 678  | 2000  | 667  |     |      |
| 2200    | 670       | 2800  | 670    | 3800  | 650    | 4500  | 650  | 4600  | 640  |     |      |
| 4800    | 640       | 5200  | 620    | 5900  | 614    | 7800  | 614  | 7900  | 615  |     |      |
| 8400    | 615       | 8400  | 610    | 9200  | 610    | 9800  | 603  | 10000 | 600  |     |      |
| 10800   | 600       | 11000 | 570.71 | 11100 | 570.71 | 11300 | 600  | 11800 | 605  |     |      |
| 13500   | 610       | 13700 | 610    | 14000 | 650    | 14500 | 665  | 14700 | 660  |     |      |
| 15000   | 660       | 15500 | 695    |       |        |       |      |       |      |     |      |

## Manning's n Values

num= 3



| Sta                                  | n Val       | Sta    | n Val                  | Sta   | n Val       |            |       |             |        |
|--------------------------------------|-------------|--------|------------------------|-------|-------------|------------|-------|-------------|--------|
| 0                                    | .15         | 10800  | .15                    | 11300 | .15         |            |       |             |        |
| Bank Sta:                            | Left        | Right  | Lengths:               | Left  | Channel     | Right      | Coeff | Contr.      | Expan. |
|                                      | 10800       | 11300  |                        | 2.94  | 2.94        | 2.94       |       | .1          | .3     |
| CROSS SECTION OUTPUT Profile #Max ws |             |        |                        |       |             |            |       |             |        |
| E.G. Elev (ft)                       |             | 775.20 | Element                |       | Left OB     | Channel    |       | Right OB    |        |
| Vel Head (ft)                        |             | 0.00   | Wt. n-Val.             |       | 0.150       | 0.150      |       | 0.150       |        |
| W.S. Elev (ft)                       |             | 775.20 | Reach Len. (ft)        |       | 2.94        | 2.94       |       | 2.94        |        |
| Crit W.S. (ft)                       |             |        | Flow Area (sq ft)      |       | 1492255.00  | 96386.79   |       | 612838.30   |        |
| E.G. Slope (ft/ft)                   | 0.000000    |        | Area (sq ft)           |       | 1492255.00  | 96386.79   |       | 612838.30   |        |
| Q Total (cfs)                        | 94659.91    |        | Flow (cfs)             |       | 63005.61    | 5072.19    |       | 26582.10    |        |
| Top Width (ft)                       | 15500.00    |        | Top Width (ft)         |       | 10800.00    | 500.00     |       | 4200.00     |        |
| Vel Total (ft/s)                     |             | 0.04   | Avg. Vel (ft/s)        |       | 0.04        | 0.05       |       | 0.04        |        |
| Max Chl Dpth (ft)                    |             | 204.49 | Hydr. Depth (ft)       |       | 138.17      | 192.77     |       | 145.91      |        |
| Conv. Total (cfs)                    | 591285400.0 |        | Conv. (cfs)            |       | 393559500.0 | 31682990.0 |       | 166043000.0 |        |
| Length wtd. (ft)                     |             | 2.94   | wetted Per. (ft)       |       | 10862.96    | 504.27     |       | 4284.40     |        |
| Min Ch El (ft)                       |             | 570.71 | Shear (lb/sq ft)       |       | 0.00        | 0.00       |       | 0.00        |        |
| Alpha                                |             | 1.01   | Stream Power (lb/ft s) |       | 0.00        | 0.00       |       | 0.00        |        |
| Frctn Loss (ft)                      |             | 0.00   | Cum Volume (acre-ft)   |       | 1322.94     | 87.15      |       | 533.76      |        |
| C & E Loss (ft)                      |             |        | Cum SA (acres)         |       | 8.75        | 0.40       |       | 3.40        |        |

CROSS SECTION

INPUT

**Description:**

|           |          |       |       |       |       |
|-----------|----------|-------|-------|-------|-------|
| Manning's | n values |       | num=  | 3     |       |
| Sta       | n val    | Sta   | n val | Sta   | n val |
| 0         | .15      | 10800 | .15   | 11300 | .15   |

|           |       |       |          |      |         |       |       |        |        |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10800 | 11300 |          | 2.94 | 2.94    | 2.94  |       | .1     | .3     |

CROSS SECTION OUTPUT    Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 2.94        | 2.94       | 2.94        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 149225.50   | 96404.79   | 612838.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 149225.50   | 96404.79   | 612838.30   |
| Q Total (cfs)      | 94659.64    | Flow (cfs)             | 63004.47    | 5073.56    | 26581.62    |
| Top width (ft)     | 15500.00    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.04       | 0.04        |
| Max Chl Dpth (ft)  | 204.55      | Hydr. Depth (ft)       | 138.17      | 192.81     | 145.91      |
| Conv. Total (cfs)  | 591294500.0 | Conv. (cfs)            | 393559500.0 | 31692120.0 | 166043000.0 |
| Length Wtd. (ft)   | 2.94        | Wetted Per. (ft)       | 10862.96    | 504.28     | 4284.40     |
| Min Ch El (ft)     | 570.65      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 1222.22     | 80.65      | 492.40      |
| C & E Loss (ft)    |             | Cum SA (acres)         | 8.02        | 0.37       | 3.12        |

CROSS SECTION

INPUT

**Description:**

| Station | Elevation | Data    | num=     | 32       |          |          |          |       |     |
|---------|-----------|---------|----------|----------|----------|----------|----------|-------|-----|
| Sta 0   | Elev 720  | Sta 680 | Elev 676 | Sta 1300 | Elev 678 | Sta 2000 | Elev 660 |       |     |
| 2200    | 680       | 2800    | 670      | 3800     | 650      | 4500     | 640      |       |     |
| 4000    | 640       | 5200    | 630      | 614      | 7800     | 614      | 7900     | 615   |     |
| 8400    | 615       | 8400    | 610      | 9200     | 610      | 9800     | 603      | 10000 | 605 |
| 10800   | 600       | 11000   | 570.59   | 11100    | 570.59   | 11300    | 600      | 11800 | 600 |
| 13500   | 610       | 13700   | 610      | 14000    | 650      | 14500    | 665      | 14700 | 660 |
| 15000   | 660       | 15500   | 695      |          |          |          |          |       |     |

|           |          |       |       |       |       |
|-----------|----------|-------|-------|-------|-------|
| Manning's | n values |       | num=  | 3     |       |
| Sta       | n val    | Sta   | n val | Sta   | n val |
| 0         | .15      | 10800 | .15   | 11300 | .15   |

|           |       |       |          |      |         |       |       |        |        |
|-----------|-------|-------|----------|------|---------|-------|-------|--------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left | Channel | Right | Coeff | Contr. | Expan. |
|           | 10800 | 11300 |          | 2.94 | 2.94    | 2.94  |       | .1     | .3     |

CROSS SECTION OUTPUT Profile #Max WS

|                    |          |                   |            |          |           |
|--------------------|----------|-------------------|------------|----------|-----------|
| E.G. Elev (ft)     | 775.20   | Element           | Left OB    | Channel  | Right OB  |
| Vel Head (ft)      | 0.00     | Wt. n-Val.        | 0.150      | 0.150    | 0.150     |
| W.S. Elev (ft)     | 775.20   | Reach Len. (ft)   | 2.94       | 2.94     | 2.94      |
| Crit W.S. (ft)     |          | Flow Area (sq ft) | 1492255.00 | 96422.79 | 612838.30 |
| E.G. Slope (ft/ft) | 0.000000 | Area (sq ft)      | 1492255.00 | 96422.79 | 612838.30 |
| Q Total (cfs)      | 94659.37 | Flow (cfs)        | 63003.31   | 5074.92  | 26581.13  |

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|                   |             |                        |             |            |             |
|-------------------|-------------|------------------------|-------------|------------|-------------|
| Top width (ft)    | 15500.00    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |
| Vel Total (ft/s)  | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft) | 204.61      | Hydr. Depth (ft)       | 138.17      | 192.85     | 145.91      |
| Conv. Total (cfs) | 591303700.0 | Conv. (cfs)            | 393559500.0 | 31701260.0 | 166043000.0 |
| Length wtd. (ft)  | 2.94        | Wetted Per. (ft)       | 10862.96    | 504.30     | 4284.40     |
| Min Ch El (ft)    | 570.59      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha             | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)   | 0.00        | Cum Volume (acre-ft)   | 1121.50     | 74.14      | 451.04      |
| C & E Loss (ft)   |             | Cum SA (acres)         | 7.29        | 0.34       | 2.83        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1190.47\*

## INPUT

## Description:

| Station Elevation Data |      |       | num=   | 32    |        |       |      |       |      |     |
|------------------------|------|-------|--------|-------|--------|-------|------|-------|------|-----|
| Sta                    | Elev | Sta   | Elev   | Sta   | Elev   | Sta   | Elev | Sta   | Elev | Sta |
| 0                      | 720  | 600   | 680    | 1000  | 676    | 1300  | 678  | 2000  | 667  |     |
| 2200                   | 670  | 2800  | 670    | 3800  | 650    | 4500  | 650  | 4600  | 640  |     |
| 4800                   | 640  | 5200  | 620    | 5900  | 614    | 7800  | 614  | 7900  | 615  |     |
| 8400                   | 615  | 8400  | 610    | 9200  | 610    | 9800  | 603  | 10000 | 600  |     |
| 10800                  | 600  | 11000 | 570.53 | 11100 | 570.53 | 11300 | 600  | 11800 | 605  |     |
| 13500                  | 610  | 13700 | 610    | 14000 | 650    | 14500 | 665  | 14700 | 660  |     |
| 15000                  | 660  | 15500 | 695    |       |        |       |      |       |      |     |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10800 | .15   | 11300 | .15   |

|           |       |       |          |              |       |              |        |
|-----------|-------|-------|----------|--------------|-------|--------------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff Contr. | Expan. |
|           | 10800 | 11300 |          | 2.94         | 2.94  | .1           | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 2.94        | 2.94       | 2.94        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1492255.00  | 96440.78   | 612838.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1492255.00  | 96440.78   | 612838.30   |
| Q Total (cfs)      | 94659.09    | Flow (cfs)             | 63002.16    | 5076.29    | 26580.65    |
| Top width (ft)     | 15500.00    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 204.67      | Hydr. Depth (ft)       | 138.17      | 192.88     | 145.91      |
| Conv. Total (cfs)  | 591312800.0 | Conv. (cfs)            | 393559500.0 | 31710380.0 | 166043000.0 |
| Length wtd. (ft)   | 2.94        | Wetted Per. (ft)       | 10862.96    | 504.32     | 4284.40     |
| Min Ch El (ft)     | 570.53      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 1020.78     | 67.63      | 409.68      |
| C & E Loss (ft)    |             | Cum SA (acres)         | 6.56        | 0.30       | 2.55        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1187.52\*

## INPUT

## Description:

| Station Elevation Data |      |       | num=   | 32    |        |       |      |       |      |     |
|------------------------|------|-------|--------|-------|--------|-------|------|-------|------|-----|
| Sta                    | Elev | Sta   | Elev   | Sta   | Elev   | Sta   | Elev | Sta   | Elev | Sta |
| 0                      | 720  | 600   | 680    | 1000  | 676    | 1300  | 678  | 2000  | 667  |     |
| 2200                   | 670  | 2800  | 670    | 3800  | 650    | 4500  | 650  | 4600  | 640  |     |
| 4800                   | 640  | 5200  | 620    | 5900  | 614    | 7800  | 614  | 7900  | 615  |     |
| 8400                   | 615  | 8400  | 610    | 9200  | 610    | 9800  | 603  | 10000 | 600  |     |
| 10800                  | 600  | 11000 | 570.47 | 11100 | 570.47 | 11300 | 600  | 11800 | 605  |     |
| 13500                  | 610  | 13700 | 610    | 14000 | 650    | 14500 | 665  | 14700 | 660  |     |
| 15000                  | 660  | 15500 | 695    |       |        |       |      |       |      |     |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10800 | .15   | 11300 | .15   |

|           |       |       |          |              |       |              |        |
|-----------|-------|-------|----------|--------------|-------|--------------|--------|
| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff Contr. | Expan. |
|           | 10800 | 11300 |          | 2.94         | 2.94  | .1           | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | wt. n-val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 2.94        | 2.94       | 2.94        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1492255.00  | 96458.80   | 612838.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1492255.00  | 96458.80   | 612838.30   |
| Q Total (cfs)      | 94658.82    | Flow (cfs)             | 63001.00    | 5077.66    | 26580.16    |
| Top width (ft)     | 15500.00    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 204.73      | Hydr. Depth (ft)       | 138.17      | 192.92     | 145.91      |
| Conv. Total (cfs)  | 591321900.0 | Conv. (cfs)            | 393559500.0 | 31719530.0 | 166043000.0 |
| Length wtd. (ft)   | 2.94        | Wetted Per. (ft)       | 10862.96    | 504.34     | 4284.40     |
| Min Ch El (ft)     | 570.47      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 920.07      | 61.12      | 368.31      |
| C & E Loss (ft)    |             | Cum SA (acres)         | 5.83        | 0.27       | 2.27        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

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RIVER: SQUAW CREEK  
REACH: SC

RS: 1184.58\*

## INPUT

## Description:

| Station | Elevation | Data  | num=   | 32    | Elev   | Sta   | Elev | Sta   | Elev |
|---------|-----------|-------|--------|-------|--------|-------|------|-------|------|
| Sta     | Elev      | Sta   | Elev   | Sta   | Elev   | Sta   | Elev | Sta   | Elev |
| 0       | 720       | 600   | 680    | 1000  | 676    | 1300  | 678  | 2000  | 667  |
| 2200    | 670       | 2800  | 670    | 3800  | 650    | 4500  | 650  | 4600  | 640  |
| 4800    | 640       | 5200  | 620    | 5900  | 614    | 7800  | 614  | 7900  | 615  |
| 8400    | 615       | 8400  | 610    | 9200  | 610    | 9800  | 603  | 10000 | 600  |
| 10800   | 600       | 11000 | 570.41 | 11100 | 570.41 | 11300 | 600  | 11800 | 605  |
| 13500   | 610       | 13700 | 610    | 14000 | 650    | 14500 | 665  | 14700 | 660  |
| 15000   | 660       | 15500 | 695    |       |        |       |      |       |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10800 | .15   |
|     |       | 11300 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10800 | 11300 | 2.94     | 2.94         | 2.94  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 2.94        | 2.94       | 2.94        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1492255.00  | 96476.80   | 612838.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1492255.00  | 96476.80   | 612838.30   |
| Q Total (cfs)      | 94658.55    | Flow (cfs)             | 62999.84    | 5079.03    | 26579.67    |
| Top width (ft)     | 15500.00    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 204.79      | Hydr. Depth (ft)       | 138.17      | 192.95     | 145.91      |
| Conv. Total (cfs)  | 591331100.0 | Conv. (cfs)            | 393559500.0 | 31728650.0 | 166043000.0 |
| Length wtd. (ft)   | 2.94        | wetted Per. (ft)       | 10862.96    | 504.35     | 4284.40     |
| Min Ch El (ft)     | 570.41      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 819.35      | 54.61      | 326.95      |
| C & E Loss (ft)    |             | Cum SA (acres)         | 5.10        | 0.24       | 1.98        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1181.64\*

## INPUT

## Description:

| Station | Elevation | Data  | num=   | 32    | Elev   | Sta   | Elev | Sta   | Elev |
|---------|-----------|-------|--------|-------|--------|-------|------|-------|------|
| Sta     | Elev      | Sta   | Elev   | Sta   | Elev   | Sta   | Elev | Sta   | Elev |
| 0       | 720       | 600   | 680    | 1000  | 676    | 1300  | 678  | 2000  | 667  |
| 2200    | 670       | 2800  | 670    | 3800  | 650    | 4500  | 650  | 4600  | 640  |
| 4800    | 640       | 5200  | 620    | 5900  | 614    | 7800  | 614  | 7900  | 615  |
| 8400    | 615       | 8400  | 610    | 9200  | 610    | 9800  | 603  | 10000 | 600  |
| 10800   | 600       | 11000 | 570.35 | 11100 | 570.35 | 11300 | 600  | 11800 | 605  |
| 13500   | 610       | 13700 | 610    | 14000 | 650    | 14500 | 665  | 14700 | 660  |
| 15000   | 660       | 15500 | 695    |       |        |       |      |       |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val |
|-----|-------|-------|-------|
| 0   | .15   | 10800 | .15   |
|     |       | 11300 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10800 | 11300 | 2.94     | 2.94         | 2.94  | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 2.94        | 2.94       | 2.94        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1492255.00  | 96494.80   | 612838.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1492255.00  | 96494.80   | 612838.30   |
| Q Total (cfs)      | 94658.27    | Flow (cfs)             | 62998.69    | 5080.40    | 26579.18    |
| Top width (ft)     | 15500.00    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 204.85      | Hydr. Depth (ft)       | 138.17      | 192.99     | 145.91      |
| Conv. Total (cfs)  | 591340200.0 | Conv. (cfs)            | 393559500.0 | 31737780.0 | 166043000.0 |
| Length wtd. (ft)   | 2.94        | wetted Per. (ft)       | 10862.96    | 504.37     | 4284.40     |
| Min Ch El (ft)     | 570.35      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 718.63      | 48.10      | 285.59      |
| C & E Loss (ft)    |             | Cum SA (acres)         | 4.37        | 0.20       | 1.70        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1178.70\*

## INPUT

## Description:

| Station | Elevation | Data  | num=   | 32    | Elev   | Sta   | Elev | Sta   | Elev |
|---------|-----------|-------|--------|-------|--------|-------|------|-------|------|
| Sta     | Elev      | Sta   | Elev   | Sta   | Elev   | Sta   | Elev | Sta   | Elev |
| 0       | 720       | 600   | 680    | 1000  | 676    | 1300  | 678  | 2000  | 667  |
| 2200    | 670       | 2800  | 670    | 3800  | 650    | 4500  | 650  | 4600  | 640  |
| 4800    | 640       | 5200  | 620    | 5900  | 614    | 7800  | 614  | 7900  | 615  |
| 8400    | 615       | 8400  | 610    | 9200  | 610    | 9800  | 603  | 10000 | 600  |
| 10800   | 600       | 11000 | 570.29 | 11100 | 570.29 | 11300 | 600  | 11800 | 605  |

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|                                                                      |             |                        |             |            |             |       |     |       |     |
|----------------------------------------------------------------------|-------------|------------------------|-------------|------------|-------------|-------|-----|-------|-----|
| TXU_Rev1.rep                                                         |             |                        |             |            |             |       |     |       |     |
| 13500                                                                | 610         | 13700                  | 610         | 14000      | 650         | 14500 | 665 | 14700 | 660 |
| 15000                                                                | 660         | 15500                  | 695         |            |             |       |     |       |     |
| Manning's n Values                                                   |             |                        |             |            |             |       |     |       |     |
| Sta                                                                  | n Val       | Sta                    | n Val       | Sta        | n Val       |       |     |       |     |
| 0                                                                    | .15         | 10800                  | .15         | 11300      | .15         |       |     |       |     |
| Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan. |             |                        |             |            |             |       |     |       |     |
|                                                                      | 10800       | 11300                  |             | 2.94       | 2.94        |       | .1  |       | .3  |
| CROSS SECTION OUTPUT Profile #Max WS                                 |             |                        |             |            |             |       |     |       |     |
| E.G. Elev (ft)                                                       | 775.20      | Element                | Left OB     | Channel    | Right OB    |       |     |       |     |
| Vel Head (ft)                                                        | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |       |     |       |     |
| W.S. Elev (ft)                                                       | 775.20      | Reach Len. (ft)        | 2.94        | 2.94       | 2.94        |       |     |       |     |
| Crit W.S. (ft)                                                       |             | Flow Area (sq ft)      | 1492255.00  | 96512.80   | 612838.30   |       |     |       |     |
| E.G. Slope (ft/ft)                                                   | 0.000000    | Area (sq ft)           | 1492255.00  | 96512.80   | 612838.30   |       |     |       |     |
| Q Total (cfs)                                                        | 94658.00    | Flow (cfs)             | 62997.54    | 5081.77    | 26578.70    |       |     |       |     |
| Top width (ft)                                                       | 15500.00    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |       |     |       |     |
| Vel Total (ft/s)                                                     | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |       |     |       |     |
| Max Chl Dpth (ft)                                                    | 204.91      | Hydr. Depth (ft)       | 138.17      | 193.03     | 145.91      |       |     |       |     |
| Conv. Total (cfs)                                                    | 591349300.0 | Conv. (cfs)            | 393559500.0 | 31746910.0 | 166043000.0 |       |     |       |     |
| Length wtd. (ft)                                                     | 2.94        | Wetted Per. (ft)       | 10862.96    | 504.39     | 4284.40     |       |     |       |     |
| Min Ch El (ft)                                                       | 570.29      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |       |     |       |     |
| Alpha                                                                | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |       |     |       |     |
| Frctn Loss (ft)                                                      | 0.00        | Cum Volume (acre-ft)   | 617.92      | 41.59      | 244.23      |       |     |       |     |
| C & E Loss (ft)                                                      |             | Cum SA (acres)         | 3.64        | 0.17       | 1.42        |       |     |       |     |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1175.76\*

## INPUT

## Description:

| Station | Elevation | Data  | num=   | 32    | Sta    | Elev  | Sta  | Elev  | Sta  | Elev |
|---------|-----------|-------|--------|-------|--------|-------|------|-------|------|------|
| Sta     | Elev      | Sta   | Elev   | Sta   | Elev   | Sta   | Elev | Sta   | Elev |      |
| 0       | 720       | 600   | 680    | 1000  | 676    | 1300  | 678  | 2000  | 667  |      |
| 2200    | 670       | 2800  | 670    | 3800  | 650    | 4500  | 650  | 4600  | 640  |      |
| 4800    | 640       | 5200  | 620    | 5900  | 614    | 7800  | 614  | 7900  | 615  |      |
| 8400    | 615       | 8400  | 610    | 9200  | 610    | 9800  | 603  | 10000 | 600  |      |
| 10800   | 600       | 11000 | 570.24 | 11100 | 570.24 | 11300 | 600  | 11800 | 605  |      |
| 13500   | 610       | 13700 | 610    | 14000 | 650    | 14500 | 665  | 14700 | 660  |      |
| 15000   | 660       | 15500 | 695    |       |        |       |      |       |      |      |

|                    |       |       |       |       |       |  |  |  |  |
|--------------------|-------|-------|-------|-------|-------|--|--|--|--|
| Manning's n Values |       |       |       |       |       |  |  |  |  |
| Sta                | n Val | Sta   | n Val | Sta   | n Val |  |  |  |  |
| 0                  | .15   | 10800 | .15   | 11300 | .15   |  |  |  |  |

|                                                                      |       |       |  |      |      |  |    |  |    |
|----------------------------------------------------------------------|-------|-------|--|------|------|--|----|--|----|
| Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan. |       |       |  |      |      |  |    |  |    |
|                                                                      | 10800 | 11300 |  | 2.94 | 2.94 |  | .1 |  | .3 |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |  |  |  |  |
|--------------------|-------------|------------------------|-------------|------------|-------------|--|--|--|--|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |  |  |  |  |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |  |  |  |  |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 2.94        | 2.94       | 2.94        |  |  |  |  |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1492255.00  | 96512.80   | 612838.30   |  |  |  |  |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1492255.00  | 96512.80   | 612838.30   |  |  |  |  |
| Q Total (cfs)      | 94657.73    | Flow (cfs)             | 62996.55    | 5082.90    | 26578.28    |  |  |  |  |
| Top width (ft)     | 15500.00    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |  |  |  |  |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |  |  |  |  |
| Max Chl Dpth (ft)  | 204.96      | Hydr. Depth (ft)       | 138.17      | 193.06     | 145.91      |  |  |  |  |
| Conv. Total (cfs)  | 591356900.0 | Conv. (cfs)            | 393559500.0 | 31754520.0 | 166043000.0 |  |  |  |  |
| Length wtd. (ft)   | 2.94        | Wetted Per. (ft)       | 10862.96    | 504.40     | 4284.40     |  |  |  |  |
| Min Ch El (ft)     | 570.24      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |  |  |  |  |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |  |  |  |  |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 517.20      | 35.07      | 202.86      |  |  |  |  |
| C & E Loss (ft)    |             | Cum SA (acres)         | 2.92        | 0.13       | 1.13        |  |  |  |  |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1172.82\*

## INPUT

## Description:

| Station | Elevation | Data  | num=   | 32    | Sta    | Elev  | Sta  | Elev  | Sta  | Elev |
|---------|-----------|-------|--------|-------|--------|-------|------|-------|------|------|
| Sta     | Elev      | Sta   | Elev   | Sta   | Elev   | Sta   | Elev | Sta   | Elev |      |
| 0       | 720       | 600   | 680    | 1000  | 676    | 1300  | 678  | 2000  | 667  |      |
| 2200    | 670       | 2800  | 670    | 3800  | 650    | 4500  | 650  | 4600  | 640  |      |
| 4800    | 640       | 5200  | 620    | 5900  | 614    | 7800  | 614  | 7900  | 615  |      |
| 8400    | 615       | 8400  | 610    | 9200  | 610    | 9800  | 603  | 10000 | 600  |      |
| 10800   | 600       | 11000 | 570.18 | 11100 | 570.18 | 11300 | 600  | 11800 | 605  |      |
| 13500   | 610       | 13700 | 610    | 14000 | 650    | 14500 | 665  | 14700 | 660  |      |
| 15000   | 660       | 15500 | 695    |       |        |       |      |       |      |      |

|                    |       |       |       |       |       |  |  |  |  |
|--------------------|-------|-------|-------|-------|-------|--|--|--|--|
| Manning's n Values |       |       |       |       |       |  |  |  |  |
| Sta                | n Val | Sta   | n Val | Sta   | n Val |  |  |  |  |
| 0                  | .15   | 10800 | .15   | 11300 | .15   |  |  |  |  |

|                                                                      |       |       |  |      |      |  |    |  |    |
|----------------------------------------------------------------------|-------|-------|--|------|------|--|----|--|----|
| Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan. |       |       |  |      |      |  |    |  |    |
|                                                                      | 10800 | 11300 |  | 2.94 | 2.94 |  | .1 |  | .3 |

## CROSS SECTION OUTPUT Profile #Max WS

|                |        |            |         |         |          |  |  |  |  |
|----------------|--------|------------|---------|---------|----------|--|--|--|--|
| E.G. Elev (ft) | 775.20 | Element    | Left OB | Channel | Right OB |  |  |  |  |
| Vel Head (ft)  | 0.00   | Wt. n-Val. | 0.150   | 0.150   | 0.150    |  |  |  |  |

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
|                    |             | TXU_Rev1.rep           |             |            |             |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 2.94        | 2.94       |             |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1492255.00  | 96545.80   | 612838.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1492255.00  | 96545.80   | 612838.30   |
| Q Total (cfs)      | 94657.45    | Flow (cfs)             | 62995.39    | 5084.27    | 26577.79    |
| Top width (ft)     | 15500.00    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 205.02      | Hydr. Depth (ft)       | 138.17      | 193.09     | 145.91      |
| Conv. Total (cfs)  | 591366100.0 | Conv. (cfs)            | 393559500.0 | 31763640.0 | 166043000.0 |
| Length wtd. (ft)   | 2.94        | Wetted Per. (ft)       | 10862.96    | 504.42     | 4284.40     |
| Min Ch El (ft)     | 570.18      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 416.48      | 28.56      | 161.50      |
| C & E Loss (ft)    |             | Cum SA (acres)         | 2.19        | 0.10       | 0.85        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1169.88\*

## INPUT

## Description:

| Station Elevation Data |      | num=  | 32     |       |        |       |      |       |      |
|------------------------|------|-------|--------|-------|--------|-------|------|-------|------|
| Sta                    | Elev | Sta   | Elev   | Sta   | Elev   | Sta   | Elev | Sta   | Elev |
| 0                      | 720  | 600   | 680    | 1000  | 676    | 1300  | 678  | 2000  | 667  |
| 2200                   | 670  | 2800  | 670    | 3800  | 650    | 4500  | 650  | 4600  | 640  |
| 4800                   | 640  | 5200  | 620    | 5900  | 614    | 7800  | 614  | 7900  | 615  |
| 8400                   | 615  | 8400  | 610    | 9200  | 610    | 9800  | 603  | 10000 | 600  |
| 10800                  | 600  | 11000 | 570.12 | 11100 | 570.12 | 11300 | 600  | 11800 | 605  |
| 13500                  | 610  | 13700 | 610    | 14000 | 650    | 14500 | 665  | 14700 | 660  |
| 15000                  | 660  | 15500 | 695    |       |        |       |      |       |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10800 | .15   | 11300 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10800 | 11300 |          | 2.94         | 2.94  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 2.94        | 2.94       | 2.94        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1492255.00  | 96563.79   | 612838.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1492255.00  | 96563.79   | 612838.30   |
| Q Total (cfs)      | 94657.18    | Flow (cfs)             | 62994.24    | 5085.64    | 26577.30    |
| Top width (ft)     | 15500.00    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 205.08      | Hydr. Depth (ft)       | 138.17      | 193.13     | 145.91      |
| Conv. Total (cfs)  | 591375200.0 | Conv. (cfs)            | 393559500.0 | 31772770.0 | 166043000.0 |
| Length wtd. (ft)   | 2.94        | Wetted Per. (ft)       | 10862.96    | 504.44     | 4284.40     |
| Min Ch El (ft)     | 570.12      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 315.77      | 22.04      | 120.14      |
| C & E Loss (ft)    |             | Cum SA (acres)         | 1.46        | 0.07       | 0.57        |

Warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
REACH: SC

RS: 1166.94\*

## INPUT

## Description:

| Station Elevation Data |      | num=  | 32     |       |        |       |      |       |      |
|------------------------|------|-------|--------|-------|--------|-------|------|-------|------|
| Sta                    | Elev | Sta   | Elev   | Sta   | Elev   | Sta   | Elev | Sta   | Elev |
| 0                      | 720  | 600   | 680    | 1000  | 676    | 1300  | 678  | 2000  | 667  |
| 2200                   | 670  | 2800  | 670    | 3800  | 650    | 4500  | 650  | 4600  | 640  |
| 4800                   | 640  | 5200  | 620    | 5900  | 614    | 7800  | 614  | 7900  | 615  |
| 8400                   | 615  | 8400  | 610    | 9200  | 610    | 9800  | 603  | 10000 | 600  |
| 10800                  | 600  | 11000 | 570.06 | 11100 | 570.06 | 11300 | 600  | 11800 | 605  |
| 13500                  | 610  | 13700 | 610    | 14000 | 650    | 14500 | 665  | 14700 | 660  |
| 15000                  | 660  | 15500 | 695    |       |        |       |      |       |      |

## Manning's n Values

| Sta | n Val | Sta   | n Val | Sta   | n Val |
|-----|-------|-------|-------|-------|-------|
| 0   | .15   | 10800 | .15   | 11300 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
|           | 10800 | 11300 |          | 2.94         | 2.94  |       | .1     | .3     |

## CROSS SECTION OUTPUT Profile #Max WS

|                    |             |                        |             |            |             |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
| Vel Head (ft)      | 0.00        | Wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 2.94        | 2.94       | 2.94        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1492255.00  | 96581.79   | 612838.30   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1492255.00  | 96581.79   | 612838.30   |
| Q Total (cfs)      | 94656.91    | Flow (cfs)             | 62993.08    | 5087.01    | 26576.82    |
| Top width (ft)     | 15500.00    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 205.14      | Hydr. Depth (ft)       | 138.17      | 193.16     | 145.91      |
| Conv. Total (cfs)  | 591384300.0 | Conv. (cfs)            | 393559500.0 | 31781890.0 | 166043000.0 |
| Length wtd. (ft)   | 2.94        | Wetted Per. (ft)       | 10862.96    | 504.46     | 4284.40     |
| Min Ch El (ft)     | 570.06      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 215.05      | 15.52      | 78.78       |
| C & E Loss (ft)    |             | Cum SA (acres)         | 0.73        | 0.03       | 0.28        |

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warning: The cross-section end points had to be extended vertically for the computed water surface.

## CROSS SECTION

RIVER: SQUAW CREEK  
 REACH: SC RS: 1164

INPUT  
Description:

| Station | Elev | Data  | num= | 32    | Sta | Elev  | Sta | Elev  | Sta | Elev |
|---------|------|-------|------|-------|-----|-------|-----|-------|-----|------|
| 0       | 720  | 600   | 680  | 1000  | 676 | 1300  | 678 | 2000  | 667 |      |
| 2200    | 670  | 2800  | 670  | 3800  | 650 | 4500  | 650 | 4600  | 640 |      |
| 4800    | 640  | 5200  | 620  | 5900  | 614 | 7800  | 614 | 7900  | 615 |      |
| 8400    | 615  | 8400  | 610  | 9200  | 610 | 9800  | 603 | 10000 | 600 |      |
| 10800   | 600  | 11000 | 570  | 11100 | 570 | 11300 | 600 | 11800 | 605 |      |
| 13500   | 610  | 13700 | 610  | 14000 | 650 | 14500 | 665 | 14700 | 660 |      |
| 15000   | 660  | 15500 | 695  |       |     |       |     |       |     |      |

| Manning's n | values | num=  | 3   | Sta   | n Val |
|-------------|--------|-------|-----|-------|-------|
| 0           | .15    | 10800 | .15 | 11300 | .15   |

| Bank Sta: | Left  | Right | Lengths: | Left Channel | Right | Coeff | Contr. | Expan. |
|-----------|-------|-------|----------|--------------|-------|-------|--------|--------|
| 10800     | 11300 |       | 5        | 5            |       | .1    | .3     |        |

## CROSS SECTION OUTPUT Profile #Max WS

| E.G. Elev (ft)     | 775.20      | Element                | Left OB     | Channel    | Right OB    |
|--------------------|-------------|------------------------|-------------|------------|-------------|
| Vel Head (ft)      | 0.00        | wt. n-Val.             | 0.150       | 0.150      | 0.150       |
| W.S. Elev (ft)     | 775.20      | Reach Len. (ft)        | 5.00        | 5.00       | 5.00        |
| Crit W.S. (ft)     |             | Flow Area (sq ft)      | 1492244.00  | 96599.24   | 612833.60   |
| E.G. Slope (ft/ft) | 0.000000    | Area (sq ft)           | 1492244.00  | 96599.24   | 612833.60   |
| Q Total (cfs)      | 94656.63    | Flow (cfs)             | 62991.91    | 5088.39    | 26576.34    |
| Top width (ft)     | 15500.00    | Top width (ft)         | 10800.00    | 500.00     | 4200.00     |
| Vel Total (ft/s)   | 0.04        | Avg. Vel. (ft/s)       | 0.04        | 0.05       | 0.04        |
| Max Chl Dpth (ft)  | 205.20      | Hydr. Depth (ft)       | 138.17      | 193.20     | 145.91      |
| Conv. Total (cfs)  | 591386000.0 | Conv. (cfs)            | 393554400.0 | 31790720.0 | 166040900.0 |
| Length Wtd. (ft)   | 5.00        | wetted Per. (ft)       | 10862.96    | 504.48     | 4284.40     |
| Min Ch El (ft)     | 570.00      | Shear (lb/sq ft)       | 0.00        | 0.00       | 0.00        |
| Alpha              | 1.01        | Stream Power (lb/ft s) | 0.00        | 0.00       | 0.00        |
| Frctn Loss (ft)    | 0.00        | Cum Volume (acre-ft)   | 114.33      | 9.00       | 37.42       |
| C & E Loss (ft)    | 0.00        | Cum SA (acres)         |             |            |             |

warning: The cross-section end points had to be extended vertically for the computed water surface.

## SUMMARY OF MANNING'S N VALUES

River: PALUXY

| Reach        | River Sta. | n1  | n2  | n3  |
|--------------|------------|-----|-----|-----|
| PALUXY RIVER | 25092      | .15 | .15 | .15 |
| PALUXY RIVER | 22745      | .15 | .15 | .15 |
| PALUXY RIVER | 21047      | .15 | .15 | .15 |
| PALUXY RIVER | 19331      | .15 | .15 | .15 |
| PALUXY RIVER | 17277      | .15 | .15 | .15 |
| PALUXY RIVER | 15741      | .15 | .15 | .15 |
| PALUXY RIVER | 14471      | .15 | .15 | .15 |
| PALUXY RIVER | 14325.1*   | .15 | .15 | .15 |
| PALUXY RIVER | 14179.2*   | .15 | .15 | .15 |
| PALUXY RIVER | 14033.4*   | .15 | .15 | .15 |
| PALUXY RIVER | 13887.5*   | .15 | .15 | .15 |
| PALUXY RIVER | 13741.7*   | .15 | .15 | .15 |
| PALUXY RIVER | 13595.8*   | .15 | .15 | .15 |
| PALUXY RIVER | 13450      | .15 | .15 | .15 |
| PALUXY RIVER | 12129      | .15 | .15 | .15 |
| PALUXY RIVER | 11391      | .15 | .15 | .15 |
| PALUXY RIVER | 11366.1*   | .15 | .15 | .15 |
| PALUXY RIVER | 11341.3*   | .15 | .15 | .15 |
| PALUXY RIVER | 11316.4*   | .15 | .15 | .15 |
| PALUXY RIVER | 11291.6*   | .15 | .15 | .15 |
| PALUXY RIVER | 11266.8*   | .15 | .15 | .15 |
| PALUXY RIVER | 11241.9*   | .15 | .15 | .15 |
| PALUXY RIVER | 11217.1*   | .15 | .15 | .15 |
| PALUXY RIVER | 11192.2*   | .15 | .15 | .15 |
| PALUXY RIVER | 11167.4*   | .15 | .15 | .15 |
| PALUXY RIVER | 11142.6*   | .15 | .15 | .15 |
| PALUXY RIVER | 11117.7*   | .15 | .15 | .15 |
| PALUXY RIVER | 11092.9*   | .15 | .15 | .15 |
| PALUXY RIVER | 11068.0*   | .15 | .15 | .15 |
| PALUXY RIVER | 11043.2*   | .15 | .15 | .15 |
| PALUXY RIVER | 11018.4*   | .15 | .15 | .15 |
| PALUXY RIVER | 10993.5*   | .15 | .15 | .15 |
| PALUXY RIVER | 10968.7*   | .15 | .15 | .15 |
| PALUXY RIVER | 10943.8*   | .15 | .15 | .15 |
| PALUXY RIVER | 10919.0*   | .15 | .15 | .15 |
| PALUXY RIVER | 10894.2*   | .15 | .15 | .15 |
| PALUXY RIVER | 10869.3*   | .15 | .15 | .15 |
| PALUXY RIVER | 10844.5*   | .15 | .15 | .15 |
| PALUXY RIVER | 10819.6*   | .15 | .15 | .15 |
| PALUXY RIVER | 10794.8*   | .15 | .15 | .15 |
| PALUXY RIVER | 10770.*    | .15 | .15 | .15 |
| PALUXY RIVER | 10745.1*   | .15 | .15 | .15 |
| PALUXY RIVER | 10720.3*   | .15 | .15 | .15 |
| PALUXY RIVER | 10695.4*   | .15 | .15 | .15 |
| PALUXY RIVER | 10670.6*   | .15 | .15 | .15 |
| PALUXY RIVER | 10645.8*   | .15 | .15 | .15 |
| PALUXY RIVER | 10620.9*   | .15 | .15 | .15 |
| PALUXY RIVER | 10596.1*   | .15 | .15 | .15 |
| PALUXY RIVER | 10571.2*   | .15 | .15 | .15 |

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|--------------|----------|-----|-----|-----|
| PALUXY RIVER | 10546.4* | .15 | .15 | .15 |
| PALUXY RIVER | 10521.6* | .15 | .15 | .15 |
| PALUXY RIVER | 10496.7* | .15 | .15 | .15 |
| PALUXY RIVER | 10471.9* | .15 | .15 | .15 |
| PALUXY RIVER | 10447.0* | .15 | .15 | .15 |
| PALUXY RIVER | 10422.2* | .15 | .15 | .15 |
| PALUXY RIVER | 10397.4* | .15 | .15 | .15 |
| PALUXY RIVER | 10372.5* | .15 | .15 | .15 |
| PALUXY RIVER | 10347.7* | .15 | .15 | .15 |
| PALUXY RIVER | 10322.8* | .15 | .15 | .15 |
| PALUXY RIVER | 10298.0* | .15 | .15 | .15 |
| PALUXY RIVER | 10273.2* | .15 | .15 | .15 |
| PALUXY RIVER | 10248.3* | .15 | .15 | .15 |
| PALUXY RIVER | 10223.5* | .15 | .15 | .15 |
| PALUXY RIVER | 10198.6* | .15 | .15 | .15 |
| PALUXY RIVER | 10173.8* | .15 | .15 | .15 |
| PALUXY RIVER | 10149.*  | .15 | .15 | .15 |
| PALUXY RIVER | 10124.1* | .15 | .15 | .15 |
| PALUXY RIVER | 10099.3* | .15 | .15 | .15 |
| PALUXY RIVER | 10074.4* | .15 | .15 | .15 |
| PALUXY RIVER | 10049.6* | .15 | .15 | .15 |
| PALUXY RIVER | 10024.8* | .15 | .15 | .15 |
| PALUXY RIVER | 9999.96* | .15 | .15 | .15 |
| PALUXY RIVER | 9975.12* | .15 | .15 | .15 |
| PALUXY RIVER | 9950.28* | .15 | .15 | .15 |
| PALUXY RIVER | 9925.44* | .15 | .15 | .15 |
| PALUXY RIVER | 9900.6*  | .15 | .15 | .15 |
| PALUXY RIVER | 9875.76* | .15 | .15 | .15 |
| PALUXY RIVER | 9850.92* | .15 | .15 | .15 |
| PALUXY RIVER | 9826.08* | .15 | .15 | .15 |
| PALUXY RIVER | 9801.24* | .15 | .15 | .15 |
| PALUXY RIVER | 9776.4*  | .15 | .15 | .15 |
| PALUXY RIVER | 9751.56* | .15 | .15 | .15 |
| PALUXY RIVER | 9726.72* | .15 | .15 | .15 |
| PALUXY RIVER | 9701.88* | .15 | .15 | .15 |
| PALUXY RIVER | 9677.04* | .15 | .15 | .15 |
| PALUXY RIVER | 9652.2*  | .15 | .15 | .15 |
| PALUXY RIVER | 9627.36* | .15 | .15 | .15 |
| PALUXY RIVER | 9602.52* | .15 | .15 | .15 |
| PALUXY RIVER | 9577.68* | .15 | .15 | .15 |
| PALUXY RIVER | 9552.84* | .15 | .15 | .15 |
| PALUXY RIVER | 9528.00* | .15 | .15 | .15 |
| PALUXY RIVER | 9503.16* | .15 | .15 | .15 |
| PALUXY RIVER | 9478.32* | .15 | .15 | .15 |
| PALUXY RIVER | 9453.48* | .15 | .15 | .15 |
| PALUXY RIVER | 9428.64* | .15 | .15 | .15 |
| PALUXY RIVER | 9403.80* | .15 | .15 | .15 |
| PALUXY RIVER | 9378.96* | .15 | .15 | .15 |
| PALUXY RIVER | 9354.12* | .15 | .15 | .15 |
| PALUXY RIVER | 9329.28* | .15 | .15 | .15 |
| PALUXY RIVER | 9304.44* | .15 | .15 | .15 |
| PALUXY RIVER | 9279.60* | .15 | .15 | .15 |
| PALUXY RIVER | 9254.76* | .15 | .15 | .15 |
| PALUXY RIVER | 9229.92* | .15 | .15 | .15 |
| PALUXY RIVER | 9205.08* | .15 | .15 | .15 |
| PALUXY RIVER | 9180.24* | .15 | .15 | .15 |
| PALUXY RIVER | 9155.4*  | .15 | .15 | .15 |
| PALUXY RIVER | 9130.56* | .15 | .15 | .15 |
| PALUXY RIVER | 9105.72* | .15 | .15 | .15 |
| PALUXY RIVER | 9080.88* | .15 | .15 | .15 |
| PALUXY RIVER | 9056.04* | .15 | .15 | .15 |
| PALUXY RIVER | 9031.2*  | .15 | .15 | .15 |
| PALUXY RIVER | 9006.35* | .15 | .15 | .15 |
| PALUXY RIVER | 8981.52* | .15 | .15 | .15 |
| PALUXY RIVER | 8956.68* | .15 | .15 | .15 |
| PALUXY RIVER | 8931.84* | .15 | .15 | .15 |
| PALUXY RIVER | 8907     | .15 | .15 | .15 |
| PALUXY RIVER | 8861.14* | .15 | .15 | .15 |
| PALUXY RIVER | 8815.28* | .15 | .15 | .15 |
| PALUXY RIVER | 8769.42* | .15 | .15 | .15 |
| PALUXY RIVER | 8723.57* | .15 | .15 | .15 |
| PALUXY RIVER | 8677.71* | .15 | .15 | .15 |
| PALUXY RIVER | 8631.85* | .15 | .15 | .15 |
| PALUXY RIVER | 8586.*   | .15 | .15 | .15 |
| PALUXY RIVER | 8540.14* | .15 | .15 | .15 |
| PALUXY RIVER | 8494.28* | .15 | .15 | .15 |
| PALUXY RIVER | 8448.42* | .15 | .15 | .15 |
| PALUXY RIVER | 8402.57* | .15 | .15 | .15 |
| PALUXY RIVER | 8356.71* | .15 | .15 | .15 |
| PALUXY RIVER | 8310.85* | .15 | .15 | .15 |
| PALUXY RIVER | 8265.*   | .15 | .15 | .15 |
| PALUXY RIVER | 8219.14* | .15 | .15 | .15 |
| PALUXY RIVER | 8173.28* | .15 | .15 | .15 |
| PALUXY RIVER | 8127.42* | .15 | .15 | .15 |
| PALUXY RIVER | 8081.57* | .15 | .15 | .15 |
| PALUXY RIVER | 8035.71* | .15 | .15 | .15 |
| PALUXY RIVER | 7989.85* | .15 | .15 | .15 |
| PALUXY RIVER | 7944     | .15 | .15 | .15 |
| PALUXY RIVER | 7886.4*  | .15 | .15 | .15 |
| PALUXY RIVER | 7828.8*  | .15 | .15 | .15 |
| PALUXY RIVER | 7771.2*  | .15 | .15 | .15 |
| PALUXY RIVER | 7713.6*  | .15 | .15 | .15 |
| PALUXY RIVER | 7656.*   | .15 | .15 | .15 |
| PALUXY RIVER | 7598.4*  | .15 | .15 | .15 |
| PALUXY RIVER | 7540.8*  | .15 | .15 | .15 |
| PALUXY RIVER | 7483.2*  | .15 | .15 | .15 |
| PALUXY RIVER | 7425.6*  | .15 | .15 | .15 |
| PALUXY RIVER | 7368.*   | .15 | .15 | .15 |
| PALUXY RIVER | 7310.4*  | .15 | .15 | .15 |
| PALUXY RIVER | 7252.8*  | .15 | .15 | .15 |
| PALUXY RIVER | 7195.2*  | .15 | .15 | .15 |
| PALUXY RIVER | 7137.6*  | .15 | .15 | .15 |
| PALUXY RIVER | 7080     | .15 | .15 | .15 |
| PALUXY RIVER | 7065.01* | .15 | .15 | .15 |
| PALUXY RIVER | 7050.03* | .15 | .15 | .15 |
| PALUXY RIVER | 7035.04* | .15 | .15 | .15 |

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| PALUXY RIVER | 7020.06* | .15 | .15 | .15 |
| PALUXY RIVER | 7005.07* | .15 | .15 | .15 |
| PALUXY RIVER | 6990.09* | .15 | .15 | .15 |
| PALUXY RIVER | 6975.10* | .15 | .15 | .15 |
| PALUXY RIVER | 6960.12* | .15 | .15 | .15 |
| PALUXY RIVER | 6945.13* | .15 | .15 | .15 |
| PALUXY RIVER | 6930.15* | .15 | .15 | .15 |
| PALUXY RIVER | 6915.16* | .15 | .15 | .15 |
| PALUXY RIVER | 6900.18* | .15 | .15 | .15 |
| PALUXY RIVER | 6885.19* | .15 | .15 | .15 |
| PALUXY RIVER | 6870.21* | .15 | .15 | .15 |
| PALUXY RIVER | 6855.22* | .15 | .15 | .15 |
| PALUXY RIVER | 6840.24* | .15 | .15 | .15 |
| PALUXY RIVER | 6825.25* | .15 | .15 | .15 |
| PALUXY RIVER | 6810.27* | .15 | .15 | .15 |
| PALUXY RIVER | 6795.28* | .15 | .15 | .15 |
| PALUXY RIVER | 6780.30* | .15 | .15 | .15 |
| PALUXY RIVER | 6765.31* | .15 | .15 | .15 |
| PALUXY RIVER | 6750.33* | .15 | .15 | .15 |
| PALUXY RIVER | 6735.34* | .15 | .15 | .15 |
| PALUXY RIVER | 6720.36* | .15 | .15 | .15 |
| PALUXY RIVER | 6705.37* | .15 | .15 | .15 |
| PALUXY RIVER | 6690.39* | .15 | .15 | .15 |
| PALUXY RIVER | 6675.40* | .15 | .15 | .15 |
| PALUXY RIVER | 6660.42* | .15 | .15 | .15 |
| PALUXY RIVER | 6645.43* | .15 | .15 | .15 |
| PALUXY RIVER | 6630.45* | .15 | .15 | .15 |
| PALUXY RIVER | 6615.47* | .15 | .15 | .15 |
| PALUXY RIVER | 6600.48* | .15 | .15 | .15 |
| PALUXY RIVER | 6585.5*  | .15 | .15 | .15 |
| PALUXY RIVER | 6570.51* | .15 | .15 | .15 |
| PALUXY RIVER | 6555.53* | .15 | .15 | .15 |
| PALUXY RIVER | 6540.54* | .15 | .15 | .15 |
| PALUXY RIVER | 6525.56* | .15 | .15 | .15 |
| PALUXY RIVER | 6510.57* | .15 | .15 | .15 |
| PALUXY RIVER | 6495.59* | .15 | .15 | .15 |
| PALUXY RIVER | 6480.60* | .15 | .15 | .15 |
| PALUXY RIVER | 6465.62* | .15 | .15 | .15 |
| PALUXY RIVER | 6450.63* | .15 | .15 | .15 |
| PALUXY RIVER | 6435.65* | .15 | .15 | .15 |
| PALUXY RIVER | 6420.66* | .15 | .15 | .15 |
| PALUXY RIVER | 6405.68* | .15 | .15 | .15 |
| PALUXY RIVER | 6390.69* | .15 | .15 | .15 |
| PALUXY RIVER | 6375.71* | .15 | .15 | .15 |
| PALUXY RIVER | 6360.72* | .15 | .15 | .15 |
| PALUXY RIVER | 6345.74* | .15 | .15 | .15 |
| PALUXY RIVER | 6330.75* | .15 | .15 | .15 |
| PALUXY RIVER | 6315.77* | .15 | .15 | .15 |
| PALUXY RIVER | 6300.78* | .15 | .15 | .15 |
| PALUXY RIVER | 6285.80* | .15 | .15 | .15 |
| PALUXY RIVER | 6270.81* | .15 | .15 | .15 |
| PALUXY RIVER | 6255.83* | .15 | .15 | .15 |
| PALUXY RIVER | 6240.84* | .15 | .15 | .15 |
| PALUXY RIVER | 6225.86* | .15 | .15 | .15 |
| PALUXY RIVER | 6210.87* | .15 | .15 | .15 |
| PALUXY RIVER | 6195.89* | .15 | .15 | .15 |
| PALUXY RIVER | 6180.91* | .15 | .15 | .15 |
| PALUXY RIVER | 6165.92* | .15 | .15 | .15 |
| PALUXY RIVER | 6150.94* | .15 | .15 | .15 |
| PALUXY RIVER | 6135.95* | .15 | .15 | .15 |
| PALUXY RIVER | 6120.97* | .15 | .15 | .15 |
| PALUXY RIVER | 6105.98* | .15 | .15 | .15 |
| PALUXY RIVER | 6091.00* | .15 | .15 | .15 |
| PALUXY RIVER | 6076.01* | .15 | .15 | .15 |
| PALUXY RIVER | 6061.03* | .15 | .15 | .15 |
| PALUXY RIVER | 6046.04* | .15 | .15 | .15 |
| PALUXY RIVER | 6031.06* | .15 | .15 | .15 |
| PALUXY RIVER | 6016.07* | .15 | .15 | .15 |
| PALUXY RIVER | 6001.09* | .15 | .15 | .15 |
| PALUXY RIVER | 5986.10* | .15 | .15 | .15 |
| PALUXY RIVER | 5971.12* | .15 | .15 | .15 |
| PALUXY RIVER | 5956.13* | .15 | .15 | .15 |
| PALUXY RIVER | 5941.15* | .15 | .15 | .15 |
| PALUXY RIVER | 5926.16* | .15 | .15 | .15 |
| PALUXY RIVER | 5911.18* | .15 | .15 | .15 |
| PALUXY RIVER | 5896.19* | .15 | .15 | .15 |
| PALUXY RIVER | 5881.21* | .15 | .15 | .15 |
| PALUXY RIVER | 5866.22* | .15 | .15 | .15 |
| PALUXY RIVER | 5851.24* | .15 | .15 | .15 |
| PALUXY RIVER | 5836.25* | .15 | .15 | .15 |
| PALUXY RIVER | 5821.27* | .15 | .15 | .15 |
| PALUXY RIVER | 5806.29* | .15 | .15 | .15 |
| PALUXY RIVER | 5791.30* | .15 | .15 | .15 |
| PALUXY RIVER | 5776.32* | .15 | .15 | .15 |
| PALUXY RIVER | 5761.33* | .15 | .15 | .15 |
| PALUXY RIVER | 5746.35* | .15 | .15 | .15 |
| PALUXY RIVER | 5731.36* | .15 | .15 | .15 |
| PALUXY RIVER | 5716.38* | .15 | .15 | .15 |
| PALUXY RIVER | 5701.39* | .15 | .15 | .15 |
| PALUXY RIVER | 5686.41* | .15 | .15 | .15 |
| PALUXY RIVER | 5671.42* | .15 | .15 | .15 |
| PALUXY RIVER | 5656.44* | .15 | .15 | .15 |
| PALUXY RIVER | 5641.45* | .15 | .15 | .15 |
| PALUXY RIVER | 5626.47* | .15 | .15 | .15 |
| PALUXY RIVER | 5611.48* | .15 | .15 | .15 |
| PALUXY RIVER | 5596.50* | .15 | .15 | .15 |
| PALUXY RIVER | 5581.51* | .15 | .15 | .15 |
| PALUXY RIVER | 5566.53* | .15 | .15 | .15 |
| PALUXY RIVER | 5551.54* | .15 | .15 | .15 |
| PALUXY RIVER | 5536.56* | .15 | .15 | .15 |
| PALUXY RIVER | 5521.57* | .15 | .15 | .15 |
| PALUXY RIVER | 5506.59* | .15 | .15 | .15 |
| PALUXY RIVER | 5491.60* | .15 | .15 | .15 |
| PALUXY RIVER | 5476.62* | .15 | .15 | .15 |
| PALUXY RIVER | 5461.63* | .15 | .15 | .15 |
| PALUXY RIVER | 5446.65* | .15 | .15 | .15 |