

8-30-2008

Ex. 277-US-446

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Stream: Larkin Creek  
 Site: WM10  
 Date: 5/10/2004  
 Habitat: Pool

Flow: High

| BM/HP<br>(ft) | Station    |        | HI<br>(ft) | FS<br>(ft) | Elev<br>(ft) |
|---------------|------------|--------|------------|------------|--------------|
|               | BS<br>(ft) | ave    |            |            |              |
| BM            | 4.46       | 104.46 |            |            | 100.00       |
| HP1           |            |        | 7.65       |            | 96.81        |
| HP2           |            |        | 8.15       |            | 96.31        |
| HP3           |            |        | 7.44       |            | 97.02        |
| TP Run        |            |        | 4.01       |            | 100.45       |
| Run HP3       | 3.90       | 104.35 |            |            | 97.03        |
| HP3           |            |        | 7.32       |            | 97.03        |
| HP2           |            |        | 8.04       |            | 96.31        |
| HP1           |            |        | 7.54       |            | 96.81        |
| BM            |            |        | 4.35       |            | 100.00       |

Comment: Turned on Run HP3

Date: 6/24/2004  
 Habitat: Pool

Flow: Low

| BM/HP<br>(ft) | Station    |        | HI<br>(ft) | FS<br>(ft) | Elev<br>(ft) |
|---------------|------------|--------|------------|------------|--------------|
|               | BS<br>(ft) | ave    |            |            |              |
| BM            | 5.58       | 105.58 |            |            | 100.00       |
| HP1           |            |        | 8.77       |            | 96.81        |
| HP2           |            |        | 9.27       |            | 96.31        |
| HP3           |            |        | 8.56       |            | 97.02        |
| TP Run        |            |        | 5.14       |            | 100.44       |
| Run HP3       | 5.18       | 105.62 |            |            | 97.02        |
| HP3           |            |        | 8.60       |            | 97.02        |
| HP2           |            |        | 9.31       |            | 96.31        |
| HP1           |            |        | 8.81       |            | 96.81        |
| BM            |            |        | 5.62       |            | 100.00       |

Comment: Turned on Run HP3

Date: 8/17/2004  
 Habitat: Pool

Flow: Mid

| BM/HP<br>(ft) | Station    |        | HI<br>(ft) | FS<br>(ft) | Elev<br>(ft) |
|---------------|------------|--------|------------|------------|--------------|
|               | BS<br>(ft) | ave    |            |            |              |
| BM            | 5.88       | 105.88 |            |            | 100.00       |
| HP1           |            |        | 9.06       |            | 96.82        |
| HP2           |            |        | 9.57       |            | 96.31        |
| HP3           |            |        | 8.85       |            | 97.03        |
| TP Run        |            |        | 5.44       |            | 100.44       |
| Run HP3       | 5.24       | 105.68 |            |            | 97.02        |
| HP3           |            |        | 8.66       |            | 97.02        |
| HP2           |            |        | 9.38       |            | 96.30        |
| HP1           |            |        | 8.87       |            | 96.81        |
| BM            |            |        | 5.68       |            | 100.00       |

Comment: Turned on Run HP3

(2) Water Surface Elevation (WSE) Survey

| TR  | Station          |     | HI<br>(ft) | FS<br>(ft) | Rod<br>(ft) | WSE<br>(ft) | Ave<br>WSE<br>(ft) | Q<br>(cfs) |
|-----|------------------|-----|------------|------------|-------------|-------------|--------------------|------------|
|     | L/R bank<br>(ft) | ave |            |            |             |             |                    |            |
| 1-L | 0                | 0   | 104.35     | 10.38      | 0.00        | 93.97       | 93.98              | 8.3        |
| 1-R | 0                | 0   | 104.35     | 10.37      | 0.00        | 93.98       | 93.98              |            |
| 2-L | 7                | 7   | 104.35     | 10.36      | 0.00        | 93.99       | 94.00              | 9.6        |
| 2-R | 6                | 6   | 104.35     | 10.35      | 0.00        | 94.00       | 94.00              |            |
| 3-L | 15               | 15  | 104.35     | 10.34      | 0.00        | 94.01       | 94.01              | 7.7        |
| 3-R | 14               | 14  | 104.34     | 10.34      | 0.00        | 94.01       | 94.01              |            |

Note: Hydraulic control LWSE=10.38, RWSE=10.39  
 WSE slope = 0.241%  
 Ave Q= 8.7

(2) Water Surface Elevation (WSE) Survey

| TR  | Station          |     | HI<br>(ft) | FS<br>(ft) | Rod<br>(ft) | WSE<br>(ft) | Ave<br>WSE<br>(ft) | Q<br>(cfs) |
|-----|------------------|-----|------------|------------|-------------|-------------|--------------------|------------|
|     | L/R bank<br>(ft) | ave |            |            |             |             |                    |            |
| 1-L | 0                | 0   | 105.62     | 12.20      | 0.00        | 93.42       | 93.40              | 2.2        |
| 1-R | 0                | 0   | 105.62     | 12.24      | 0.00        | 93.38       | 93.38              |            |
| 2-L | 7                | 7   | 105.62     | 12.20      | 0.00        | 93.42       | 93.40              | 2.0        |
| 2-R | 6                | 6   | 105.62     | 12.25      | 0.00        | 93.37       | 93.37              |            |
| 3-L | 15               | 15  | 105.62     | 12.16      | 0.00        | 93.46       | 93.45              | 1.7        |
| 3-R | 14               | 14  | 105.62     | 12.18      | 0.00        | 93.44       | 93.44              |            |

Note: Center WSE FS TR1&TR2=12.19, TR3=12.17  
 WSE slope = 0.345%  
 Ave Q= 2.2

(2) Water Surface Elevation (WSE) Survey

| TR  | Station          |     | HI<br>(ft) | FS<br>(ft) | Rod<br>(ft) | WSE<br>(ft) | Ave<br>WSE<br>(ft) | Q<br>(cfs) |
|-----|------------------|-----|------------|------------|-------------|-------------|--------------------|------------|
|     | L/R bank<br>(ft) | ave |            |            |             |             |                    |            |
| 1-L | 0                | 0   | 105.68     | 12.15      | 0.00        | 93.53       | 93.53              | 3.8        |
| 1-R | 0                | 0   | 105.68     | 12.16      | 0.00        | 93.52       | 93.52              |            |
| 2-L | 7                | 7   | 105.68     | 12.14      | 0.00        | 93.54       | 93.54              | 2.9        |
| 2-R | 6                | 6   | 105.68     | 12.14      | 0.00        | 93.54       | 93.54              |            |
| 3-L | 15               | 15  | 105.68     | 12.14      | 0.00        | 93.54       | 93.55              | 2.5        |
| 3-R | 14               | 14  | 105.68     | 12.13      | 0.00        | 93.55       | 93.55              |            |

Note: HC L FS=12.16, R FS=12.16, 60' d/s of HC FS=13.23 rod=1.02  
 WSE slope = 0.138%  
 Ave Q= 2.8

(3) Meter and propeller ID for Velocity Correction

Meter ID: 4099  
 Propeller ID: 1A

(3) Meter and propeller ID for Velocity Correction

Meter ID: 3602  
 Propeller ID: 3A

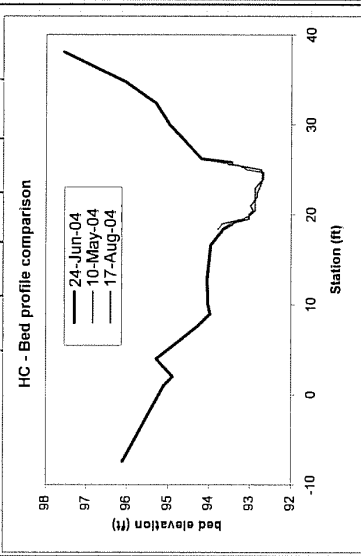
(3) Meter and propeller ID for Velocity Correction

Meter ID: 4099  
 Propeller ID: 1a

Stream: Larkin Creek  
 Site: WM-10  
 Transect: Hyd Cont  
 Habitat: Pool

| Survey Date | HI (ft) | Q (cfs) |
|-------------|---------|---------|
| 5/10/2004   | 104.35  |         |
| 6/24/2004   | 105.62  |         |
| 8/17/2004   | 105.68  |         |

| 10-May-04 |         |             |            |                     |                  |     |         |           |  |  |
|-----------|---------|-------------|------------|---------------------|------------------|-----|---------|-----------|--|--|
| Sta (ft)  | FS (ft) | Ground (ft) | Depth (ft) | Vel (ft/s)          |                  |     | q (cfs) | substrate |  |  |
|           |         |             |            | V <sub>0.20/6</sub> | V <sub>0.8</sub> | Ave |         |           |  |  |
| RWP       | 18.4    | 93.78       | 0.20       |                     |                  |     |         |           |  |  |
| RWE       | 19.0    | 93.68       | 0.30       |                     |                  |     |         |           |  |  |
|           | 19.5    | 93.18       | 0.80       |                     |                  |     |         |           |  |  |
|           | 20.0    | 92.98       | 1.00       |                     |                  |     |         |           |  |  |
|           | 20.5    | 92.88       | 1.10       |                     |                  |     |         |           |  |  |
|           | 21.0    | 92.88       | 1.10       |                     |                  |     |         |           |  |  |
|           | 21.5    | 92.88       | 1.10       |                     |                  |     |         |           |  |  |
|           | 22.0    | 92.88       | 1.10       |                     |                  |     |         |           |  |  |
|           | 22.5    | 92.88       | 1.10       |                     |                  |     |         |           |  |  |
|           | 23.0    | 92.88       | 1.10       |                     |                  |     |         |           |  |  |
|           | 23.5    | 92.78       | 1.20       |                     |                  |     |         |           |  |  |
|           | 24.0    | 92.68       | 1.30       |                     |                  |     |         |           |  |  |
|           | 24.5    | 92.68       | 1.30       |                     |                  |     |         |           |  |  |
|           | 24.7    | 92.68       | 1.30       |                     |                  |     |         |           |  |  |
|           | 25.0    | 93.08       | 0.90       |                     |                  |     |         |           |  |  |
|           | 25.5    | 93.28       | 0.70       |                     |                  |     |         |           |  |  |
| LWE       | 26.0    | 93.98       | 0.00       |                     |                  |     |         |           |  |  |
| LWP       |         |             |            |                     |                  |     |         |           |  |  |



| 24-Jun-04 |         |             |            |                     |                  |     |         |           |  |  |
|-----------|---------|-------------|------------|---------------------|------------------|-----|---------|-----------|--|--|
| Sta (ft)  | FS (ft) | Ground (ft) | Depth (ft) | Vel (ft/s)          |                  |     | q (cfs) | substrate |  |  |
|           |         |             |            | V <sub>0.20/6</sub> | V <sub>0.8</sub> | Ave |         |           |  |  |
| RWP       | -7.4    | 9.52        | 96.10      |                     |                  |     |         |           |  |  |
|           | 2.0     | 10.52       | 95.10      |                     |                  |     |         |           |  |  |
|           | 4.0     | 10.73       | 94.89      |                     |                  |     |         |           |  |  |
|           | 7.6     | 10.34       | 95.28      |                     |                  |     |         |           |  |  |
|           | 9.0     | 11.34       | 94.28      |                     |                  |     |         |           |  |  |
|           | 10.0    | 11.65       | 93.97      |                     |                  |     |         |           |  |  |
|           | 13.0    | 11.60       | 94.02      |                     |                  |     |         |           |  |  |
|           | 13.0    | 11.57       | 94.05      |                     |                  |     |         |           |  |  |
|           | 16.6    | 11.66       | 93.96      |                     |                  |     |         |           |  |  |
|           | 18.4    | 11.97       | 93.65      |                     |                  |     |         |           |  |  |
| RWE       | 19.0    | 12.19       | 93.43      |                     |                  |     |         |           |  |  |
| LWE       | 25.8    | 12.17       | 93.45      |                     |                  |     |         |           |  |  |
|           | 26.2    | 11.44       | 94.18      |                     |                  |     |         |           |  |  |
|           | 30.0    | 10.65       | 94.97      |                     |                  |     |         |           |  |  |
|           | 32.4    | 10.32       | 95.30      |                     |                  |     |         |           |  |  |
| LWP       | 34.8    | 9.57        | 96.05      |                     |                  |     |         |           |  |  |
|           | 38.1    | 8.06        | 97.56      |                     |                  |     |         |           |  |  |

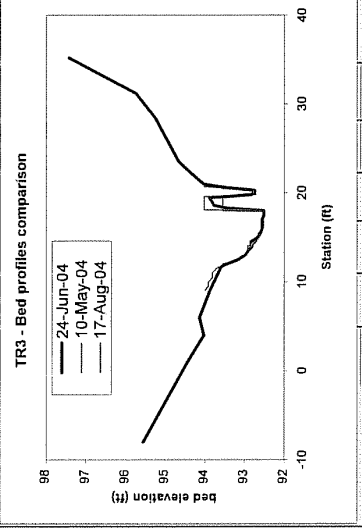
| 17-Aug-04 |         |             |            |                     |                  |     |         |           |  |  |
|-----------|---------|-------------|------------|---------------------|------------------|-----|---------|-----------|--|--|
| Sta (ft)  | FS (ft) | Ground (ft) | Depth (ft) | Vel (ft/s)          |                  |     | q (cfs) | substrate |  |  |
|           |         |             |            | V <sub>0.20/6</sub> | V <sub>0.8</sub> | Ave |         |           |  |  |
| RWE       | 18.9    | 93.53       | 0.00       |                     |                  |     |         |           |  |  |
|           | 19.0    | 93.48       | 0.05       |                     |                  |     |         |           |  |  |
|           | 19.5    | 93.03       | 0.50       |                     |                  |     |         |           |  |  |
|           | 20.0    | 93.03       | 0.50       |                     |                  |     |         |           |  |  |
|           | 20.5    | 92.93       | 0.60       |                     |                  |     |         |           |  |  |
|           | 21.0    | 93.00       | 0.53       |                     |                  |     |         |           |  |  |
|           | 21.5    | 92.91       | 0.62       |                     |                  |     |         |           |  |  |
|           | 22.0    | 92.83       | 0.70       |                     |                  |     |         |           |  |  |
|           | 22.5    | 92.83       | 0.70       |                     |                  |     |         |           |  |  |
|           | 23.0    | 92.78       | 0.75       |                     |                  |     |         |           |  |  |
|           | 23.5    | 92.73       | 0.80       |                     |                  |     |         |           |  |  |
|           | 24.0    | 92.71       | 0.82       |                     |                  |     |         |           |  |  |
|           | 24.5    | 92.71       | 0.82       |                     |                  |     |         |           |  |  |
|           | 25.0    | 92.73       | 0.80       |                     |                  |     |         |           |  |  |
|           | 25.5    | 93.33       | 0.20       |                     |                  |     |         |           |  |  |
| LWE       | 25.6    | 93.53       | 0.00       |                     |                  |     |         |           |  |  |





Stream: Larkin Creek  
 Site: WM10  
 Transsect: 3  
 Habitat: Pool  
 Survey HI Q  
 Date (ft) (cfs)  
 5/10/2004 104.35 7.7  
 6/24/2004 105.62 1.7  
 8/17/2004 105.68 2.5

| 10-May-04   |            |                |               |              |           |      |            |           |
|-------------|------------|----------------|---------------|--------------|-----------|------|------------|-----------|
| Sta<br>(ft) | FS<br>(ft) | Ground<br>(ft) | Depth<br>(ft) | Vel (ft/s)   |           |      | q<br>(cfs) | substrate |
|             |            |                |               | $V_{0.2m/s}$ | $V_{0.8}$ | Ave  |            |           |
| RWP         | 9.0        | 94.01          | 0.00          | 0.00         | 0.00      | 0.00 | 0.00       |           |
| RWE         | 9.5        | 93.91          | 0.10          | 0.00         | 0.01      | 0.00 | 0.00       |           |
|             | 10.0       | 93.91          | 0.10          | 0.00         | 0.01      | 0.00 | 0.00       |           |
|             | 10.5       | 93.81          | 0.20          | 0.00         | 0.01      | 0.00 | 0.00       |           |
|             | 11.0       | 93.81          | 0.20          | 0.00         | 0.01      | 0.00 | 0.00       |           |
|             | 11.5       | 93.71          | 0.30          | 0.00         | 0.01      | 0.00 | 0.00       |           |
|             | 12.0       | 93.51          | 0.50          | 0.00         | 0.01      | 0.00 | 0.00       |           |
|             | 12.5       | 93.11          | 0.90          | 0.00         | 0.01      | 0.00 | 0.00       |           |
|             | 13.0       | 93.01          | 1.00          | 0.00         | 0.01      | 0.00 | 0.00       |           |
|             | 13.5       | 92.91          | 1.10          | 0.23         | 0.32      | 0.18 | 0.06       |           |
|             | 14.0       | 92.91          | 1.10          | 0.57         | 0.62      | 0.34 | 0.23       |           |
|             | 14.5       | 92.71          | 1.30          | 1.01         | 1.06      | 0.69 | 0.30       |           |
|             | 15.0       | 92.61          | 1.40          | 1.23         | 1.29      | 0.90 | 0.35       |           |
|             | 15.5       | 92.61          | 1.40          | 1.55         | 1.62      | 1.13 | 0.46       |           |
|             | 16.0       | 92.51          | 1.50          | 1.66         | 1.73      | 1.30 | 0.53       |           |
|             | 16.5       | 92.51          | 1.50          | 1.27         | 1.33      | 1.00 | 0.38       |           |
|             | 17.0       | 92.51          | 1.50          | 1.32         | 1.38      | 1.03 | 0.46       |           |
|             | 17.5       | 92.51          | 1.50          | 1.04         | 1.09      | 0.82 | 0.35       |           |
|             | 18.0       | 92.51          | 1.50          | 1.64         | 1.69      | 1.31 | 0.58       |           |
| LWE         | 18.1       | 94.01          | 0.00          | 0.00         | 0.00      | 0.00 | 0.00       |           |
| RWE         | 19.6       | 94.01          | 0.00          | 0.00         | 0.00      | 0.00 | 0.00       |           |
|             | 19.8       | 92.71          | 1.30          | 0.00         | 0.01      | 0.00 | 0.00       |           |
|             | 20.3       | 92.71          | 1.30          | 0.00         | 0.01      | 0.00 | 0.00       |           |
| LWE         | 20.7       | 94.01          | 0.00          | 0.00         | 0.00      | 0.00 | 0.00       |           |
| LWP         |            |                |               |              |           |      |            |           |



| 24-Jun-04   |            |                |               |              |           |      |            |           |
|-------------|------------|----------------|---------------|--------------|-----------|------|------------|-----------|
| Sta<br>(ft) | FS<br>(ft) | Ground<br>(ft) | Depth<br>(ft) | Vel (ft/s)   |           |      | q<br>(cfs) | substrate |
|             |            |                |               | $V_{0.2m/s}$ | $V_{0.8}$ | Ave  |            |           |
| -8.0        | 8.80       | 95.55          |               |              |           |      |            |           |
| RWP         | 1.0        | 11.19          | 94.43         |              |           |      |            |           |
|             | 4.0        | 11.60          | 94.02         |              |           |      |            |           |
|             | 6.0        | 11.49          | 94.13         |              |           |      |            |           |
|             | 9.0        | 11.75          | 93.87         |              |           |      |            |           |
|             | 11.7       | 12.03          | 93.59         |              |           |      |            |           |
| RWE         | 12.0       | 93.45          | 0.00          | 0.00         | 0.00      | 0.00 | 0.00       |           |
|             | 12.5       | 93.15          | 0.30          | 0.00         | 0.01      | 0.00 | 0.00       |           |
|             | 13.0       | 92.98          | 0.47          | 0.02         | 0.06      | 0.01 | 0.01       |           |
|             | 13.5       | 92.90          | 0.55          | 0.02         | 0.06      | 0.02 | 0.01       |           |
|             | 14.0       | 92.80          | 0.65          | 0.05         | 0.15      | 0.05 | 0.06       |           |
|             | 14.5       | 92.83          | 0.62          | 0.18         | 0.23      | 0.07 | 0.12       |           |
|             | 15.0       | 92.65          | 0.80          | 0.26         | 0.30      | 0.12 | 0.23       |           |
|             | 15.5       | 92.58          | 0.87          | 0.32         | 0.35      | 0.15 | 0.25       |           |
|             | 16.0       | 92.55          | 0.90          | 0.44         | 0.46      | 0.21 | 0.34       |           |
|             | 16.5       | 92.55          | 0.90          | 0.51         | 0.53      | 0.24 | 0.38       |           |
|             | 17.0       | 92.55          | 0.90          | 0.56         | 0.58      | 0.26 | 0.42       |           |
|             | 17.5       | 92.50          | 0.95          | 0.59         | 0.61      | 0.29 | 0.45       |           |
|             | 18.0       | 92.50          | 0.95          | 0.68         | 0.70      | 0.27 | 0.50       |           |
| LWE         | 18.3       | 93.45          | 0.00          | 0.00         | 0.00      | 0.00 | 0.00       |           |
|             | 18.6       | 11.86          | 93.76         |              |           |      |            |           |
| RWE         | 19.5       | 11.74          | 93.45         |              |           |      |            |           |
|             | 19.6       | 12.17          | 93.45         |              |           |      |            |           |
|             | 19.8       | 92.80          | 0.65          | 0.03         | 0.09      | 0.02 | 0.13       |           |
|             | 20.3       | 92.75          | 0.70          | 0.00         | 0.01      | 0.00 | 0.13       |           |
| LWE         | 20.6       | 12.16          | 93.46         |              |           |      |            |           |
|             | 21.0       | 11.60          | 94.02         |              |           |      |            |           |
|             | 21.6       | 11.44          | 94.18         |              |           |      |            |           |
|             | 23.5       | 10.97          | 94.65         |              |           |      |            |           |
| LWP         | 28.4       | 10.38          | 95.24         |              |           |      |            |           |
|             | 31.2       | 9.89           | 95.73         |              |           |      |            |           |
|             | 35.2       | 8.20           | 97.42         |              |           |      |            |           |

\* Estimated Velocity  
 Average velocity cell updated

| 17-Aug-04   |            |                |               |              |           |      |            |           |
|-------------|------------|----------------|---------------|--------------|-----------|------|------------|-----------|
| Sta<br>(ft) | FS<br>(ft) | Ground<br>(ft) | Depth<br>(ft) | Vel (ft/s)   |           |      | q<br>(cfs) | substrate |
|             |            |                |               | $V_{0.2m/s}$ | $V_{0.8}$ | Ave  |            |           |
| RWE         | 12.0       | 93.55          | 0.00          | 0.00         | 0.00      | 0.00 | 0.00       |           |
|             | 12.5       | 93.15          | 0.40          | 0.01         | 0.02      | 0.00 | 0.00       |           |
|             | 13.0       | 92.95          | 0.60          | 0.05         | 0.05      | 0.02 | 0.05       |           |
|             | 13.5       | 92.90          | 0.65          | 0.10         | 0.10      | 0.03 | 0.10       |           |
|             | 14.0       | 92.82          | 0.73          | 0.25         | 0.34      | 0.12 | 0.34       |           |
|             | 14.5       | 92.70          | 0.85          | 0.47         | 0.54      | 0.23 | 0.54       |           |
|             | 15.0       | 92.70          | 0.85          | 0.55         | 0.60      | 0.25 | 0.60       |           |
|             | 15.5       | 92.63          | 0.92          | 0.59         | 0.64      | 0.29 | 0.64       |           |
|             | 16.0       | 92.57          | 0.98          | 0.66         | 0.71      | 0.35 | 0.71       |           |
|             | 16.5       | 92.55          | 1.00          | 0.69         | 0.74      | 0.37 | 0.74       |           |
|             | 17.0       | 92.53          | 1.02          | 0.69         | 0.74      | 0.38 | 0.74       |           |
|             | 17.5       | 92.50          | 1.05          | 0.55         | 0.60      | 0.28 | 0.60       |           |
|             | 17.9       | 92.53          | 1.02          | 0.46         | 0.53      | 0.13 | 0.53       |           |
|             | 18.0       | 93.55          | 0.00          | 0.00         | 0.00      | 0.00 | 0.00       |           |
|             | 19.7       | 93.55          | 0.00          | 0.00         | 0.00      | 0.00 | 0.00       |           |
|             | 19.8       | 92.75          | 0.80          | 0.01         | 0.01      | 0.00 | 0.01       |           |
|             | 20.3       | 92.80          | 0.75          | 0.01         | 0.01      | 0.00 | 0.01       |           |
| LWE         | 20.5       | 93.55          | 0.00          | 0.00         | 0.00      | 0.00 | 0.00       |           |

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| Pool | HGH                    |       |       |       |         |       |       |       |       |       |       |       | TRANSECT 1 |      |
|------|------------------------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|------------|------|
| IOC  | 1100000100001000101000 |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 1.0                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 1.5                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 2.1                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 2.8                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 3.0                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 3.5                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 4.0                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 4.5                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 5.0                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 5.5                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 6.0                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 6.5                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 7.0                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 7.5                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 8.0                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 8.6                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 9.0                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 9.5                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 10.0                   |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 10.5                   |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 11.0                   |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 11.5                   |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 12.0                   |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 12.5                   |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 13.0                   |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 14.0                   |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 16.0                   |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 18.0                   |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 20.0                   |       |       |       |         |       |       |       |       |       |       |       |            |      |
| QARD | 22.0                   |       |       |       |         |       |       |       |       |       |       |       |            |      |
| XSEC | 0.0                    | 0.0   | 1.0   | 92.68 | 0.00241 |       |       |       |       |       |       |       |            |      |
|      | 0.0                    | -6.4  | 96.7  | 1.0   | 94.8    | 1.5   | 94.5  | 6.0   | 94.0  | 10.0  | 94.0  | 13.0  | 93.8       |      |
|      | 0.0                    | 17.0  | 93.8  | 17.8  | 94.0    | 18.3  | 93.7  | 18.8  | 93.7  | 19.3  | 93.5  | 19.8  | 92.7       |      |
|      | 0.0                    | 20.3  | 92.6  | 20.8  | 92.6    | 21.3  | 92.5  | 21.8  | 92.5  | 22.3  | 92.6  | 22.5  | 92.6       |      |
|      | 0.0                    | 22.8  | 92.6  | 23.3  | 92.6    | 23.8  | 92.7  | 24.3  | 92.7  | 24.8  | 92.9  | 25.3  | 93.0       |      |
|      | 0.0                    | 25.8  | 93.0  | 26.3  | 93.2    | 26.8  | 93.6  | 27.3  | 93.9  | 27.6  | 94.0  | 28.6  | 94.2       |      |
|      | 0.0                    | 29.6  | 94.4  | 31.3  | 95.1    | 36.3  | 96.5  | 40.6  | 98.1  |       |       |       |            |      |
| NS   | 0.0                    | 1.1   | 1.1   | 1.1   | 1.1     | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1        |      |
| NS   | 0.0                    | 1.1   | 1.1   | .45   | 1.1     | 0.45  | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 3.2   | 3.2        |      |
| NS   | 0.0                    | 3.4   | 3.4   | 3.4   | 3.4     | .053  | 3.4   | .053  | 3.4   | .053  | 3.4   | 3.4   | 3.4        |      |
| NS   | 0.0                    | 3.4   | .35   | 2.3   | .35     | 2.3   | .35   | 2.3   | .35   | 3.2   | 3.2   | 3.2   | 3.2        |      |
| NS   | 0.0                    | 3.2   | 3.2   | 3.2   | 1.1     | 0.25  | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1        |      |
| NS   | 0.0                    | 1.1   | 1.1   | 1.1   | 1.1     | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1        |      |
| WSL  | 0.0                    | 93.20 | 93.31 | 93.41 | 93.51   | 93.54 | 93.60 | 93.60 | 93.60 | 93.60 | 93.60 | 93.60 | 93.60      |      |
| WSL  | 0.0                    | 93.65 | 93.70 | 93.75 | 93.80   | 93.84 | 93.87 | 93.87 | 93.87 | 93.87 | 93.87 | 93.87 | 93.87      |      |
| WSL  | 0.0                    | 93.91 | 93.94 | 93.97 | 94.00   | 94.02 | 94.04 | 94.04 | 94.04 | 94.04 | 94.04 | 94.04 | 94.04      |      |
| WSL  | 0.0                    | 94.07 | 94.09 | 94.11 | 94.13   | 94.14 | 94.16 | 94.16 | 94.16 | 94.16 | 94.16 | 94.16 | 94.16      |      |
| WSL  | 0.0                    | 94.18 | 94.21 | 94.27 | 94.33   | 94.38 | 94.42 | 94.42 | 94.42 | 94.42 | 94.42 | 94.42 | 94.42      |      |
| CAL1 | 0.0                    | 93.98 | 8.6   |       |         |       |       |       |       |       |       |       |            |      |
| VEL1 | 0.0                    |       |       |       |         |       |       |       |       | 0.00  | 0.01  | 0.01  | 0.11       | 0.76 |
| VEL1 | 0.0                    | 1.46  | 1.50  | 1.59  | 1.81    | 1.91  | 1.90  | 0.44  | 0.18  | 0.11  | 0.11  | 0.11  | 0.54       |      |
| VEL1 | 0.0                    | 0.92  | 0.53  | 0.18  | 0.01    | 0.00  |       |       |       |       |       |       |            |      |
| CAL2 | 0.0                    | 93.40 | 2.1   |       |         |       |       |       |       |       |       |       |            |      |
| VEL2 | 0.0                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| VEL2 | 0.0                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| VEL2 | 0.0                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| CAL3 | 0.0                    | 93.53 | 2.8   |       |         |       |       |       |       |       |       |       |            |      |
| VEL3 | 0.0                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| VEL3 | 0.0                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| VEL3 | 0.0                    |       |       |       |         |       |       |       |       |       |       |       |            |      |
| ENDJ |                        |       |       |       |         |       |       |       |       |       |       |       |            |      |

| Pool | HGH                    |      |       |       |         |      |       |      |       |      | TRANSECT 2 |      |       |
|------|------------------------|------|-------|-------|---------|------|-------|------|-------|------|------------|------|-------|
| IOC  | 1100000100001000101000 |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 1.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 1.5                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 2.1                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 2.8                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 3.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 3.5                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 4.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 4.5                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 5.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 5.5                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 6.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 6.5                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 7.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 7.5                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 8.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 8.6                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 9.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 9.5                    |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 10.0                   |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 10.5                   |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 11.0                   |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 11.5                   |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 12.0                   |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 12.5                   |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 13.0                   |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 14.0                   |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 16.0                   |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 18.0                   |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 20.0                   |      |       |       |         |      |       |      |       |      |            |      |       |
| QARD | 22.0                   |      |       |       |         |      |       |      |       |      |            |      |       |
| XSEC | 0.0                    | 0.0  | 1.0   | 92.48 | 0.00241 |      |       |      |       |      |            |      |       |
|      | 0.0                    | -7.0 | 96.6  | 1.0   | 94.8    | 3.5  | 94.2  | 6.0  | 94.1  | 9.0  | 94.2       | 11.0 | 93.8  |
|      | 0.0                    | 12.9 | 94.0  | 13.4  | 93.9    | 13.9 | 93.9  | 14.4 | 93.8  | 14.9 | 93.7       | 15.4 | 93.6  |
|      | 0.0                    | 15.9 | 93.5  | 16.4  | 93.6    | 16.9 | 92.7  | 17.3 | 92.5  | 17.8 | 92.6       | 18.3 | 92.6  |
|      | 0.0                    | 18.8 | 92.5  | 19.3  | 92.5    | 19.8 | 92.4  | 20.3 | 92.4  | 20.8 | 92.4       | 21.3 | 92.5  |
|      | 0.0                    | 21.8 | 92.5  | 22.3  | 92.6    | 22.8 | 92.7  | 23.3 | 92.7  | 23.8 | 92.8       | 24.3 | 93.1  |
|      | 0.0                    | 24.8 | 93.7  | 25.2  | 94.0    | 25.3 | 94.0  | 28.8 | 94.9  | 31.2 | 95.3       | 32.9 | 95.6  |
|      | 0.0                    | 34.9 | 96.1  | 38.9  | 97.7    |      |       |      |       |      |            |      |       |
| NS   | 0.0                    |      | 3.1   |       | 3.1     |      | 1.3   |      | 1.1   |      | 1.1        |      | 1.1   |
| NS   | 0.0                    |      | 1.1   | 0.5   | 1.1     | 0.5  | 1.1   | 0.5  | 1.1   | 0.5  | 1.1        | 0.5  | 1.1   |
| NS   | 0.0                    | 0.5  | 1.1   | 0.3   | 1.1     |      | 2.1   |      | 2.1   |      | 2.1        |      | 3.4   |
| NS   | 0.0                    |      | 3.4   |       | 4.3     |      | 4.3   |      | 4.3   |      | 4.3        |      | 4.3   |
| NS   | 0.0                    | 0.1  | 4.3   | 0.2   | 3.4     | 0.3  | 2.3   | 0.5  | 2.3   | 0.5  | 2.3        | 0.5  | 2.1   |
| NS   | 0.0                    | 0.5  | 1.1   |       | 1.1     |      | 1.1   |      | 1.1   |      | 1.1        |      | 1.3   |
| NS   | 0.0                    |      | 1.3   |       | 3.1     |      |       |      |       |      |            |      |       |
| WSL  | 0.0                    |      | 93.21 |       | 93.32   |      | 93.42 |      | 93.52 |      | 93.55      |      | 93.61 |
| WSL  | 0.0                    |      | 93.67 |       | 93.72   |      | 93.77 |      | 93.81 |      | 93.85      |      | 93.89 |
| WSL  | 0.0                    |      | 93.92 |       | 93.95   |      | 93.98 |      | 94.02 |      | 94.04      |      | 94.06 |
| WSL  | 0.0                    |      | 94.08 |       | 94.10   |      | 94.12 |      | 94.14 |      | 94.16      |      | 94.18 |
| WSL  | 0.0                    |      | 94.20 |       | 94.23   |      | 94.29 |      | 94.34 |      | 94.39      |      | 94.44 |
| CAL1 | 0.0                    |      | 94.00 |       | 8.6     |      |       |      |       |      |            |      |       |
| VEL1 | 0.0                    |      |       |       |         |      | 0.00  | 0.01 | 0.01  | 0.01 | 0.01       | 0.01 | 0.01  |
| VEL1 | 0.0                    | 0.01 | 0.01  | 0.01  | 0.58    | 0.80 | 1.19  | 1.41 | 1.55  | 1.66 | 1.51       | 1.70 | 1.14  |
| VEL1 | 0.0                    | 0.78 | 0.30  | 0.04  | 0.04    | 0.04 | -0.18 | 0.01 | 0.00  |      |            |      |       |
| VEL1 | 0.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| CAL2 | 0.0                    |      | 93.40 |       | 2.1     |      |       |      |       |      |            |      |       |
| VEL2 | 0.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| VEL2 | 0.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| VEL2 | 0.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| VEL2 | 0.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| CAL3 | 0.0                    |      | 93.54 |       | 2.8     |      |       |      |       |      |            |      |       |
| VEL3 | 0.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| VEL3 | 0.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| VEL3 | 0.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| VEL3 | 0.0                    |      |       |       |         |      |       |      |       |      |            |      |       |
| ENDJ |                        |      |       |       |         |      |       |      |       |      |            |      |       |



| Pool | HGH                    |      |       |       |         |      |        |      |       |      |       |      |       |
|------|------------------------|------|-------|-------|---------|------|--------|------|-------|------|-------|------|-------|
| IOC  | 1100000100001000101000 |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 1.0                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 1.5                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 2.1                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 2.8                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 3.0                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 3.5                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 4.0                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 4.5                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 5.0                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 5.5                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 6.0                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 6.5                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 7.0                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 7.5                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 8.0                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 8.6                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 9.0                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 9.5                    |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 10.0                   |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 10.5                   |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 11.0                   |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 11.5                   |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 12.0                   |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 12.5                   |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 13.0                   |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 14.0                   |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 16.0                   |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 18.0                   |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 20.0                   |      |       |       |         |      |        |      |       |      |       |      |       |
| QARD | 22.0                   |      |       |       |         |      |        |      |       |      |       |      |       |
| XSEC | 0.0                    | 0.0  | 1.0   | 92.51 | 0.00241 |      |        |      |       |      |       |      |       |
|      | 0.0                    | -8.0 | 95.6  | 1.0   | 94.4    | 4.0  | 94.0   | 6.0  | 94.1  | 9.0  | 94.0  | 9.5  | 93.9  |
|      | 0.0                    | 10.0 | 93.9  | 10.5  | 93.8    | 11.0 | 93.8   | 11.5 | 93.7  | 12.0 | 93.5  | 12.5 | 93.1  |
|      | 0.0                    | 13.0 | 93.0  | 13.5  | 92.9    | 14.0 | 92.9   | 14.5 | 92.7  | 15.0 | 92.6  | 15.5 | 92.6  |
|      | 0.0                    | 16.0 | 92.5  | 16.5  | 92.5    | 17.0 | 92.5   | 17.5 | 92.5  | 18.0 | 92.5  | 18.1 | 94.0  |
|      | 0.0                    | 18.6 | 93.8  | 19.5  | 93.9    | 19.6 | 94.0   | 19.8 | 92.7  | 20.3 | 92.7  | 20.7 | 94.0  |
|      | 0.0                    | 21.0 | 94.0  | 21.6  | 94.2    | 23.5 | 94.7   | 28.4 | 95.2  | 31.2 | 95.7  | 35.2 | 97.4  |
| NS   | 0.0                    | 3.1  |       | 3.1   |         | 1.3  |        | 1.1  |       | 1.1  | 0.50  | 1.1  |       |
| NS   | 0.0                    | 0.5  | 1.1   | 0.5   | 1.1     | 0.50 | 1.1    | 0.45 | 1.1   | 0.4  | 1.1   | 0.40 | 2.1   |
| NS   | 0.0                    | 0.4  | 2.1   |       | 2.1     |      | 2.1    |      | 1.2   |      | 1.2   | .065 | 4.3   |
| NS   | 0.0                    | .065 | 4.3   |       | 4.5     |      | 4.5.08 |      | 4.5   | 0.08 | 3.1   | .10  | 1.3   |
| NS   | 0.0                    | .2   | 1.3   | 0.3   | 1.3     | 0.4  | 1.3    | 0.5  | 2.1   |      | 2.1   |      | 1.3   |
| NS   | 0.0                    |      | 1.3   |       | 1.3     |      | 1.1    |      | 3.1   |      | 3.1   |      | 3.1   |
| WSL  | 0.0                    |      | 93.22 |       | 93.33   |      | 93.44  |      | 93.53 |      | 93.56 |      | 93.62 |
| WSL  | 0.0                    |      | 93.68 |       | 93.73   |      | 93.78  |      | 93.82 |      | 93.86 |      | 93.90 |
| WSL  | 0.0                    |      | 93.93 |       | 93.97   |      | 94.00  |      | 94.03 |      | 94.05 |      | 94.07 |
| WSL  | 0.0                    |      | 94.10 |       | 94.12   |      | 94.14  |      | 94.16 |      | 94.17 |      | 94.19 |
| WSL  | 0.0                    |      | 94.21 |       | 94.24   |      | 94.30  |      | 94.36 |      | 94.41 |      | 94.45 |
| CAL1 | 0.0                    |      | 94.01 |       | 8.6     |      |        |      |       |      |       |      |       |
| VEL1 | 0.0                    |      |       |       |         | 0.00 | 0.01   | 0.01 | 0.01  | 0.01 | 0.01  | 0.01 | 0.01  |
| VEL1 | 0.0                    | 0.01 | 0.32  | 0.62  | 1.06    | 1.29 | 1.62   | 1.73 | 1.33  | 1.38 | 1.09  | 0.69 | 0.00  |
| VEL1 | 0.0                    |      |       | 0.00  | 0.01    | 0.01 | 0.00   |      |       |      |       |      |       |
| CAL2 | 0.0                    |      | 93.45 |       | 2.1     |      |        |      |       |      |       |      |       |
| VEL2 | 0.0                    |      |       |       |         |      |        |      |       |      |       |      |       |
| VEL2 | 0.0                    |      |       |       |         |      |        |      |       |      |       |      |       |
| VEL2 | 0.0                    |      |       |       |         |      |        |      |       |      |       |      |       |
| CAL3 | 0.0                    |      | 93.55 |       | 2.8     |      |        |      |       |      |       |      |       |
| VEL3 | 0.0                    |      |       |       |         |      |        |      |       |      |       |      |       |
| VEL3 | 0.0                    |      |       |       |         |      |        |      |       |      |       |      |       |
| VEL3 | 0.0                    |      |       |       |         |      |        |      |       |      |       |      |       |
| ENDJ |                        |      |       |       |         |      |        |      |       |      |       |      |       |

Stream: Larkin Creek  
 Site: 634  
 Date: 5/10/2004  
 Habitat: Run

Flow: High

(1) Level Loop Survey (BM & HP)

| BM/HP (ft) | BS (ft) | HI (ft) | FS (ft) | Elev (ft) |
|------------|---------|---------|---------|-----------|
| BM         | 4.46    | 104.46  |         | 100.00    |
| HP1        |         |         | 7.35    | 97.11     |
| HP2        |         |         | 6.15    | 98.31     |
| HP3        |         |         | 4.01    | 100.45    |
| TP         |         |         |         |           |
| HP3        | 3.90    | 104.35  |         |           |
| HP2        |         |         | 6.04    | 98.31     |
| HP1        |         |         | 7.24    | 97.11     |
| BM         |         |         | 4.35    | 100.00    |

Comment:

Date: 6/24/2004  
 Habitat: Run

Flow: Low

(1) Level Loop Survey

| BM/HP (ft) | BS (ft) | HI (ft) | FS (ft) | Elev (ft) |
|------------|---------|---------|---------|-----------|
| BM         | 5.58    | 105.58  |         | 100.00    |
| HP1        |         |         | 8.47    | 97.11     |
| HP2        |         |         | 7.27    | 98.31     |
| HP3        |         |         | 5.14    | 100.44    |
| TP         |         |         |         |           |
| HP3        | 5.18    | 105.62  |         |           |
| HP2        |         |         | 7.31    | 98.31     |
| HP1        |         |         | 8.51    | 97.11     |
| BM         |         |         | 5.62    | 100.00    |

Comment:

Date: 8/17/2004  
 Habitat: Run

Flow: Mid

(1) Level Loop Survey

| BM/HP (ft) | BS (ft) | HI (ft) | FS (ft) | Elev (ft) |
|------------|---------|---------|---------|-----------|
| BM         | 5.88    | 105.88  |         | 100.00    |
| HP1        |         |         | 8.78    | 97.10     |
| HP2        |         |         | 7.57    | 98.31     |
| HP3        |         |         | 5.44    | 100.44    |
| TP         |         |         |         |           |
| HP3        | 5.24    | 105.68  |         |           |
| HP2        |         |         | 7.38    | 98.30     |
| HP1        |         |         | 8.58    | 97.10     |
| BM         |         |         | 5.68    | 100.00    |

Comment:

(2) Water Surface Elevation (WSE) Survey

| TR  | Station       |          | Rod  | FS     | HI    | WSE (ft) | Ave WSE (ft) | Q (cfs) |
|-----|---------------|----------|------|--------|-------|----------|--------------|---------|
|     | L/R bank (ft) | Ave (ft) |      |        |       |          |              |         |
| 1-L | 0             | 0        | 0.00 | 104.35 | 10.02 | 94.33    | 94.33        | 11.0    |
| 1-R | 0             | 0        | 0.00 | 104.35 | 10.03 | 94.32    | 94.32        | 11.0    |
| 2-L | 7.5           | 8        | 0.00 | 104.35 | 9.84  | 94.51    | 94.55        | 9.3     |
| 2-R | 8             | 8        | 0.00 | 104.35 | 9.76  | 94.59    | 94.59        | 9.3     |
| 3-L | 25            | 27       | 0.00 | 104.35 | 9.55  | 94.80    | 94.80        | 8.6     |
| 3-R | 28            | 28       | 0.00 | 104.35 | 9.56  | 94.79    | 94.79        | 8.6     |

Note: WSE taken on surface  
 WSE slope = 1.774%

Ave Q= 8.7

(2) Water Surface Elevation (WSE) Survey

| TR  | Station       |          | Rod  | FS     | HI    | WSE (ft) | Ave WSE (ft) | Q (cfs) |
|-----|---------------|----------|------|--------|-------|----------|--------------|---------|
|     | L/R bank (ft) | Ave (ft) |      |        |       |          |              |         |
| 1-L | 0             | 0        | 0.00 | 105.62 | 11.62 | 94.00    | 94.00        | 2.9     |
| 1-R | 0             | 0        | 0.00 | 105.62 | 11.66 | 94.17    | 94.17        | 2.1     |
| 2-L | 7.5           | 8        | 0.00 | 105.62 | 11.43 | 94.26    | 94.26        | 2.1     |
| 2-R | 8             | 8        | 0.00 | 105.62 | 11.36 | 94.26    | 94.26        | 2.1     |
| 3-L | 25            | 27       | 0.00 | 105.62 | 11.40 | 94.26    | 94.26        | 2.1     |
| 3-R | 28            | 28       | 0.00 | 105.62 | 11.40 | 94.26    | 94.26        | 2.1     |

Note: CWSE TR1=11.65, TR2=11.44, TR3=11.36  
 WSE slope = 0.981%

Ave Q= 2.2

(2) Water Surface Elevation (WSE) Survey

| TR  | Station       |          | Rod  | FS     | HI    | WSE (ft) | Ave WSE (ft) | Q (cfs) |
|-----|---------------|----------|------|--------|-------|----------|--------------|---------|
|     | L/R bank (ft) | Ave (ft) |      |        |       |          |              |         |
| 1-L | 0             | 0        | 0.00 | 105.68 | 11.62 | 94.06    | 94.04        | 2.3     |
| 1-R | 0             | 0        | 0.00 | 105.68 | 11.66 | 94.02    | 94.02        | 2.3     |
| 2-L | 7.5           | 8        | 0.00 | 105.68 | 11.45 | 94.23    | 94.23        | 2.7     |
| 2-R | 8             | 8        | 0.00 | 105.68 | 11.46 | 94.22    | 94.22        | 2.7     |
| 3-L | 25            | 27       | 0.00 | 105.68 | 11.37 | 94.31    | 94.31        | 2.7     |
| 3-R | 28            | 28       | 0.00 | 105.68 | 11.38 | 94.30    | 94.30        | 2.7     |

Note: WSE slope = 1.000%

Ave Q= 2.8

(3) Meter and propeller ID for Velocity Correction

Meter ID: 4099  
 Propeller ID: 1A

(3) Meter and propeller ID for Velocity Correction

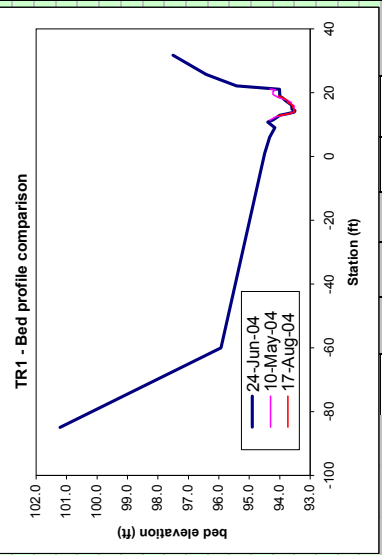
Meter ID: 3602  
 Propeller ID: 3A

(3) Meter and propeller ID for Velocity Correction

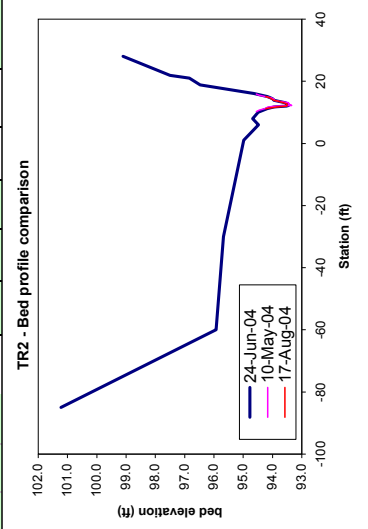
Meter ID: 4099  
 Propeller ID: 1a

| Stream: Larkin Creek | 10-May-04 |         |             |            |                      |                  |       |         |           |          | 24-Jun-04 |             |            |                      |                  |      |         |           |          |         | 17-Aug-04   |            |                      |                  |      |         |           |  |  |  |
|----------------------|-----------|---------|-------------|------------|----------------------|------------------|-------|---------|-----------|----------|-----------|-------------|------------|----------------------|------------------|------|---------|-----------|----------|---------|-------------|------------|----------------------|------------------|------|---------|-----------|--|--|--|
|                      | Sta (ft)  | FS (ft) | Ground (ft) | Depth (ft) | Vel (ft/s)           |                  |       | q (cfs) | substrate | Sta (ft) | FS (ft)   | Ground (ft) | Depth (ft) | Vel (ft/s)           |                  |      | q (cfs) | substrate | Sta (ft) | FS (ft) | Ground (ft) | Depth (ft) | Vel (ft/s)           |                  |      | q (cfs) | substrate |  |  |  |
|                      |           |         |             |            | V <sub>0.2/0.6</sub> | V <sub>0.8</sub> | Ave   |         |           |          |           |             |            | V <sub>0.2/0.6</sub> | V <sub>0.8</sub> | Ave  |         |           |          |         |             |            | V <sub>0.2/0.6</sub> | V <sub>0.8</sub> | Ave  |         |           |  |  |  |
| RWP                  | 11.4      |         | 94.33       | 0.00       | 0.00                 | 0.00             | 0.00  |         | -85.0     | 4.40     | 101.22    |             |            |                      |                  |      |         | 12.9      | 12.9     | 94.00   | 0.00        | 0.00       | 0.00                 | 0.00             | 0.00 | 0.00    | 0.00      |  |  |  |
| RWE                  | 11.9      |         | 94.23       | 0.10       | 0.00                 | 0.01             | 0.00  |         | -60.0     | 9.69     | 95.93     |             |            |                      |                  |      |         | 13.4      | 13.4     | 93.75   | 0.25        | -0.17      | -0.22                | -0.03            | 1.3  |         |           |  |  |  |
| Survey HI            | 12.4      |         | 94.13       | 0.20       | 0.00                 | 0.01             | 0.00  |         | 6.0       | 11.29    | 94.33     |             |            |                      |                  |      |         | 13.9      | 13.9     | 93.53   | 0.47        | 0.44       | 0.46                 | 0.11             | 8.8  |         |           |  |  |  |
| Date (ft)            | 12.9      |         | 93.93       | 0.40       | 0.34                 | 0.42             | 0.08  |         | 9.0       | 11.46    | 94.16     |             |            |                      |                  |      |         | 14.4      | 14.4     | 93.50   | 0.50        | 3.17       | 3.20                 | 0.80             | 8.8  |         |           |  |  |  |
| 5/10/2004            | 13.4      |         | 93.73       | 0.60       | 0.19                 | 0.28             | 0.08  |         | 10.8      | 11.23    | 94.39     |             |            |                      |                  |      |         | 14.9      | 14.9     | 93.60   | 0.40        | 2.62       | 2.65                 | 0.53             | 8.8  |         |           |  |  |  |
| 6/24/2004            | 13.9      |         | 93.53       | 0.80       | 2.03                 | 2.11             | 0.84  |         | 11.5      | 11.40    | 94.22     |             |            |                      |                  |      |         | 15.4      | 15.4     | 93.60   | 0.40        | 3.08       | 3.11                 | 0.62             | 8.8  |         |           |  |  |  |
| 8/17/2004            | 14.4      |         | 93.53       | 0.80       | 3.11                 | 3.21             | 1.28  |         | 12.9      | 12.9     | 94.00     | 0.00        | 0.00       | 0.00                 | 0.00             | 0.00 | 0.00    | 15.9      | 15.9     | 93.60   | 0.40        | 2.05       | 2.08                 | 0.42             | 8.8  |         |           |  |  |  |
|                      | 14.9      |         | 93.53       | 0.80       | 4.08                 | 4.19             | 1.67  |         | 13.4      | 13.4     | 93.75     | 0.25        | -0.17      | -0.22                | -0.03            | 1.3  |         | 16.4      | 16.4     | 93.65   | 0.35        | 2.67       | 2.70                 | 0.47             | 8.8  |         |           |  |  |  |
|                      | 15.4      |         | 93.53       | 0.80       | 4.76                 | 4.88             | 1.95  |         | 14.4      | 14.4     | 93.50     | 0.50        | 3.17       | 3.20                 | 0.80             | 8.8  |         | 16.9      | 16.9     | 93.72   | 0.28        | 0.10       | 0.16                 | 0.02             | 8.3  |         |           |  |  |  |
|                      | 15.9      |         | 93.53       | 0.80       | 5.12                 | 5.25             | 2.10  |         | 17.5      | 17.5     | 93.80     | 0.20        | -0.06      | -0.17                | -0.02            | 8.3  |         | 17.9      | 17.9     | 93.85   | 0.15        | -0.03      | -0.09                | -0.01            | 8.3  |         |           |  |  |  |
|                      | 16.4      |         | 93.63       | 0.70       | 4.70                 | 4.82             | 1.69  |         | 18.4      | 18.4     | 93.92     | 0.08        | -0.01      | -0.03                | 0.00             | 3.8  |         | 18.4      | 18.4     | 93.92   | 0.08        | -0.01      | -0.03                | 0.00             | 3.8  |         |           |  |  |  |
|                      | 16.9      |         | 93.63       | 0.70       | 3.34                 | 3.44             | 1.32  |         | LWE       | 18.7     | 94.00     | 0.00        | 0.00       | 0.00                 | 0.00             | 3.4  |         | LWE       | 19.0     | 94.04   | 0.00        | 0.00       | 0.00                 | 0.00             | 0.00 | 0.00    | 0.00      |  |  |  |
|                      | 17.5      |         | 93.73       | 0.60       | 0.12                 | 0.21             | 0.06  |         | 21.1      | 11.61    | 94.01     |             |            |                      | 2.3              |      | 21.1    | 11.61     | 94.01    |         |             |            |                      |                  |      |         |           |  |  |  |
|                      | 17.9      |         | 93.83       | 0.50       | -0.05                | -0.11            | -0.02 |         | 22.1      | 10.20    | 95.42     |             |            |                      | 1.3              |      | 22.1    | 10.20     | 95.42    |         |             |            |                      |                  |      |         |           |  |  |  |
|                      | 18.4      |         | 94.03       | 0.30       | -0.10                | -0.18            | -0.03 |         | LWP       | 25.7     | 9.20      | 96.42       |            |                      |                  | 1.3  |         | LWP       | 25.7     | 9.20    | 96.42       |            |                      |                  |      |         |           |  |  |  |
|                      | 18.9      |         | 94.13       | 0.20       | -0.05                | -0.11            | -0.01 |         | 31.7      | 8.11     | 97.51     |             |            |                      | 1.3              |      | 31.7    | 8.11      | 97.51    |         |             |            |                      |                  |      |         |           |  |  |  |
|                      | 19.4      |         | 94.23       | 0.10       | 0.00                 | 0.01             | 0.00  |         |           |          |           |             |            |                      |                  |      |         |           |          |         |             |            |                      |                  |      |         |           |  |  |  |
|                      | 19.9      |         | 94.23       | 0.10       | 0.00                 | 0.01             | 0.00  |         |           |          |           |             |            |                      |                  |      |         |           |          |         |             |            |                      |                  |      |         |           |  |  |  |
|                      | 20.4      |         | 94.23       | 0.10       | 0.00                 | 0.01             | 0.00  |         |           |          |           |             |            |                      |                  |      |         |           |          |         |             |            |                      |                  |      |         |           |  |  |  |
|                      | 20.9      |         | 94.13       | 0.20       | 0.00                 | 0.01             | 0.00  |         |           |          |           |             |            |                      |                  |      |         |           |          |         |             |            |                      |                  |      |         |           |  |  |  |
|                      | 21.2      |         | 94.33       | 0.00       | 0.00                 | 0.00             | 0.00  |         |           |          |           |             |            |                      |                  |      |         |           |          |         |             |            |                      |                  |      |         |           |  |  |  |
| LWE                  |           |         |             |            |                      |                  |       |         |           |          |           |             |            |                      |                  |      |         |           |          |         |             |            |                      |                  |      |         |           |  |  |  |
| LWP                  |           |         |             |            |                      |                  |       |         |           |          |           |             |            |                      |                  |      |         |           |          |         |             |            |                      |                  |      |         |           |  |  |  |

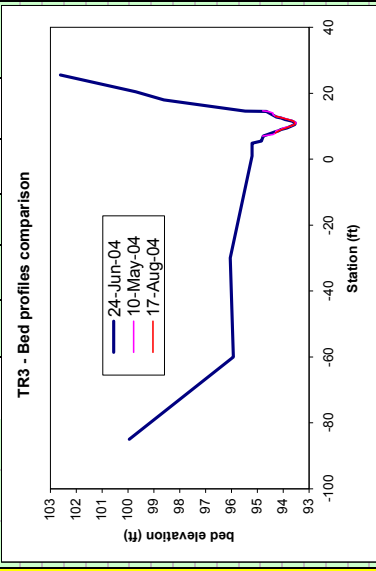
\* - Estimated Velocity  
Average velocity cell updated



| Stream: Larkin Creek | 10-May-04 |         |             |            |            |                     |                  |      |         |           | 24-Jun-04 |         |             |            |            |                     |                  |     |         |           | 17-Aug-04 |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|----------------------|-----------|---------|-------------|------------|------------|---------------------|------------------|------|---------|-----------|-----------|---------|-------------|------------|------------|---------------------|------------------|-----|---------|-----------|-----------|---------|-------------|------------|------------|---------------------|------------------|-----|---------|-----------|--|--|--|--|
|                      | Sta (ft)  | FS (ft) | Ground (ft) | Depth (ft) | Vel (ft/s) | V <sub>0.2m/s</sub> | V <sub>0.8</sub> | Ave  | q (cfs) | substrate | Sta (ft)  | FS (ft) | Ground (ft) | Depth (ft) | Vel (ft/s) | V <sub>0.2m/s</sub> | V <sub>0.8</sub> | Ave | q (cfs) | substrate | Sta (ft)  | FS (ft) | Ground (ft) | Depth (ft) | Vel (ft/s) | V <sub>0.2m/s</sub> | V <sub>0.8</sub> | Ave | q (cfs) | substrate |  |  |  |  |
| RWP                  | 10.2      |         | 94.55       | 0.00       | 0.00       |                     |                  | 0.00 | 0.00    |           | -85.0     | 4.40    | 101.22      |            |            |                     |                  |     |         | 3.1       |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
| RWE                  | 10.7      |         | 94.45       | 0.10       | 0.00       |                     |                  | 0.01 | 0.00    |           | -30.0     | 9.95    | 95.67       |            |            |                     |                  |     |         | 3.1       |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         | 94.25       | 0.30       | 0.10       |                     |                  | 0.18 | 0.03    |           | RWP       | 1.0     | 10.64       | 94.98      |            |                     |                  |     |         | 1.1       |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
| 5/10/2004            | 104.35    | 9.3     |             |            |            |                     |                  | 0.20 | 0.03    |           | 6.0       | 11.14   | 94.48       |            |            |                     |                  |     |         | 1.1       |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
| 6/24/2004            | 105.62    | 2.1     |             |            |            |                     |                  | 1.22 | 0.21    |           | 8.0       | 10.94   | 94.68       |            |            |                     |                  |     |         | 1.1       |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
| 8/17/2004            | 105.68    | 2.7     |             |            |            |                     |                  | 2.84 | 1.19    |           | 10.0      | 11.13   | 94.49       |            |            |                     |                  |     |         | 1.1       |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         | 93.45       | 1.20       | 2.75       |                     |                  | 3.75 | 1.86    |           | RWE       | 11.2    | 94.17       |            | 0.00       | 0.00                |                  |     |         | 1.1       |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         | 93.45       | 1.10       | 3.90       |                     |                  | 4.01 | 1.76    |           | 11.7      | 93.95   |             | 0.22       | -0.01      |                     |                  |     |         | 1.2       |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         | 93.75       | 0.80       | 4.11       |                     |                  | 4.22 | 1.35    |           | 11.8      | 93.85   |             | 0.32       | 0.05       |                     |                  |     |         | 1.2       |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         | 93.95       | 0.60       | 4.20       |                     |                  | 4.31 | 1.03    |           | 12.0      | 93.52   |             | 0.65       | 0.39       |                     |                  |     |         | 0.01      |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         | 93.95       | 0.60       | 3.93       |                     |                  | 4.04 | 0.97    |           | 12.2      | 93.45   |             | 0.72       | 0.72       |                     |                  |     |         | 0.05      |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         | 94.05       | 0.50       | 3.38       |                     |                  | 3.48 | 0.70    |           | 12.7      | 93.47   |             | 0.70       | 2.01       |                     |                  |     |         | 0.19      |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         | 94.25       | 0.30       | 0.98       |                     |                  | 1.03 | 0.12    |           | 13.1      | 93.57   |             | 0.60       | 2.32       |                     |                  |     |         | 0.62      |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         | 94.45       | 0.10       | 0.09       |                     |                  | 0.18 | 0.01    |           | 13.5      | 93.77   |             | 0.40       | 2.40       |                     |                  |     |         | 0.54      |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
| LWE                  | 15.9      |         | 94.55       | 0.00       | 0.00       |                     |                  | 0.00 | 0.00    |           | 13.9      | 93.95   |             | 0.22       | 2.21       |                     |                  |     | 0.38    |           |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
| LWP                  |           |         |             |            |            |                     |                  |      |         |           | 14.3      | 93.99   |             | 0.18       | 1.38       |                     |                  |     | 0.20    |           |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         |             |            |            |                     |                  |      |         |           | 14.7      | 94.07   |             | 0.10       | 0.53       |                     |                  |     | 0.10    |           |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         |             |            |            |                     |                  |      |         |           | LWE       | 15.1    | 94.17       |            | 0.00       | 0.00                |                  |     | 0.02    |           |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         |             |            |            |                     |                  |      |         |           | 16.1      | 10.98   | 94.64       |            |            |                     |                  |     | 0.00    |           |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         |             |            |            |                     |                  |      |         |           | 18.8      | 9.15    | 96.47       |            |            |                     |                  |     | 0.00    |           |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         |             |            |            |                     |                  |      |         |           | 21.0      | 8.78    | 96.84       |            |            |                     |                  |     | 0.00    |           |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         |             |            |            |                     |                  |      |         |           | LWP       | 21.9    | 8.12        | 97.50      |            |                     |                  |     | 0.02    |           |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |
|                      |           |         |             |            |            |                     |                  |      |         |           | 28.0      | 6.51    | 99.11       |            |            |                     |                  |     | 0.00    |           |           |         |             |            |            |                     |                  |     |         |           |  |  |  |  |



| Stream: Larkin Creek | 10-May-04 |         |             |            |                            |                         |            | 24-Jun-04 |           |          |         |             |            |                            | 17-Aug-04               |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |
|----------------------|-----------|---------|-------------|------------|----------------------------|-------------------------|------------|-----------|-----------|----------|---------|-------------|------------|----------------------------|-------------------------|------------|---------|-----------|----------|---------|-------------|------------|----------------------------|-------------------------|------------|---------|-----------|--|--|
|                      | Sta (ft)  | FS (ft) | Ground (ft) | Depth (ft) | V <sub>0.20.6</sub> (ft/s) | V <sub>0.8</sub> (ft/s) | Ave (ft/s) | q (cfs)   | substrate | Sta (ft) | FS (ft) | Ground (ft) | Depth (ft) | V <sub>0.20.6</sub> (ft/s) | V <sub>0.8</sub> (ft/s) | Ave (ft/s) | q (cfs) | substrate | Sta (ft) | FS (ft) | Ground (ft) | Depth (ft) | V <sub>0.20.6</sub> (ft/s) | V <sub>0.8</sub> (ft/s) | Ave (ft/s) | q (cfs) | substrate |  |  |
| RWP                  |           |         |             |            |                            |                         |            |           |           |          |         |             |            |                            |                         |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |
| RWE                  | 7.0       |         | 94.80       | 0.00       | 0.00                       | 0.00                    | 0.00       | 0.00      |           | -85.0    | 4.40    | 99.95       |            |                            |                         |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |
|                      | 8.0       |         | 94.40       | 0.40       | 0.00                       | 0.01                    | 0.00       | 0.00      |           | -60.0    | 9.69    | 95.93       |            |                            |                         |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |
|                      | 7.5       |         | 94.30       | 0.50       | 0.79                       | 0.84                    | 0.21       |           |           | -30.0    | 9.57    | 96.05       |            |                            |                         |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |
|                      | 8.5       |         | 94.30       | 0.50       | 1.86                       | 1.93                    | 0.48       |           |           |          | 1.0     | 10.41       | 95.21      |                            |                         |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |
| 5/10/2004            | 9.0       |         | 94.10       | 0.70       | 1.38                       | 1.44                    | 0.50       |           |           |          | 4.8     | 10.42       | 95.20      |                            |                         |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |
| 6/24/2004            | 9.0       |         | 94.10       | 0.70       | 1.38                       | 1.44                    | 0.50       |           |           |          | 5.5     | 10.78       | 94.84      |                            |                         |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |
| 8/17/2004            | 9.5       |         | 94.00       | 0.80       | 1.26                       | 1.32                    | 0.53       |           |           |          | 7.0     | 10.85       | 94.77      |                            |                         |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |
|                      | 10.0      |         | 93.70       | 1.10       | 1.86                       | 1.93                    | 1.06       |           |           |          | 8.4     | 94.26       | 0.00       | 0.00                       | 0.00                    | 0.00       | 0.00    | 0.00      |          |         |             |            |                            |                         |            |         |           |  |  |
|                      | 10.5      |         | 93.60       | 1.20       | 1.76                       | 1.83                    | 1.10       |           |           |          | 8.5     | 94.21       | 0.05       | 0.05                       | 0.05                    | 0.05       | 0.05    | 0.05      |          |         |             |            |                            |                         |            |         |           |  |  |
|                      | 11.0      |         | 93.50       | 1.30       | 1.71                       | 1.78                    | 1.16       |           |           |          | 9.0     | 94.08       | 0.18       | 0.44                       | 0.44                    | 0.46       | 0.04    | 0.04      |          |         |             |            |                            |                         |            |         |           |  |  |
|                      | 11.5      |         | 93.60       | 1.20       | 1.67                       | 1.74                    | 1.04       |           |           |          | 9.5     | 93.86       | 0.40       | 0.73                       | 0.73                    | 0.75       | 0.15    | 0.15      |          |         |             |            |                            |                         |            |         |           |  |  |
|                      | 12.0      |         | 93.80       | 1.00       | 1.78                       | 1.85                    | 0.93       |           |           |          | 10.0    | 93.69       | 0.57       | 1.13                       | 1.13                    | 1.16       | 0.33    | 0.33      |          |         |             |            |                            |                         |            |         |           |  |  |
|                      | 12.5      |         | 94.00       | 0.80       | 1.78                       | 1.85                    | 0.74       |           |           |          | 10.5    | 93.56       | 0.70       | 1.12                       | 1.12                    | 1.15       | 0.40    | 0.40      |          |         |             |            |                            |                         |            |         |           |  |  |
|                      | 13.0      |         | 94.30       | 0.50       | 1.53                       | 1.60                    | 0.40       |           |           |          | 11.0    | 93.53       | 0.73       | 1.21                       | 1.21                    | 1.24       | 0.45    | 0.45      |          |         |             |            |                            |                         |            |         |           |  |  |
|                      | 13.5      |         | 94.40       | 0.40       | 1.11                       | 1.16                    | 0.23       |           |           |          | 11.5    | 93.66       | 0.60       | 1.42                       | 1.42                    | 1.45       | 0.43    | 0.43      |          |         |             |            |                            |                         |            |         |           |  |  |
|                      | 14.0      |         | 94.40       | 0.40       | 0.98                       | 1.03                    | 0.21       |           |           |          | 12.0    | 93.93       | 0.33       | 1.58                       | 1.58                    | 1.61       | 0.27    | 0.27      |          |         |             |            |                            |                         |            |         |           |  |  |
|                      | 14.5      |         | 94.60       | 0.20       | 0.35                       | 0.43                    | 0.03       |           |           |          | 12.5    | 94.09       | 0.17       | 0.73                       | 0.73                    | 0.75       | 0.05    | 0.05      |          |         |             |            |                            |                         |            |         |           |  |  |
| LWE                  | 14.7      |         | 94.80       | 0.00       | 0.00                       | 0.00                    | 0.00       |           |           |          | 12.8    | 94.26       | 0.00       | 0.00                       | 0.00                    | 0.00       | 0.00    | 0.00      |          |         |             |            |                            |                         |            |         |           |  |  |
| LWP                  |           |         |             |            |                            |                         |            |           |           |          | 14.5    | 10.97       | 94.65      |                            |                         |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |
|                      |           |         |             |            |                            |                         |            |           |           |          | 14.6    | 10.15       | 95.47      |                            |                         |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |
|                      |           |         |             |            |                            |                         |            |           |           |          | 18.0    | 7.00        | 98.62      |                            |                         |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |
|                      |           |         |             |            |                            |                         |            |           |           |          | LWP     | 20.5        | 5.92       | 99.70                      |                         |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |
|                      |           |         |             |            |                            |                         |            |           |           |          | 25.5    | 3.00        | 102.62     |                            |                         |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |



\*- Estimated Velocity  
Average velocity cell updated

\*- Estimated Velocity  
Average velocity cell updated

```

Run                HGH                TRANSECT 1
IOC                1101100100001000101000
QARD  1.0
QARD  1.5
QARD  2.1
QARD  2.8
QARD  3.0
QARD  3.5
QARD  4.0
QARD  4.5
QARD  5.0
QARD  5.5
QARD  6.0
QARD  6.5
QARD  7.0
QARD  7.5
QARD  8.0
QARD  8.6
QARD  9.0
QARD  9.5
QARD 10.0
QARD 10.5
QARD 11.0
QARD 11.5
QARD 12.0
QARD 12.5
QARD 13.0
QARD 14.0
QARD 16.0
QARD 18.0
QARD 20.0
QARD 22.0
XSEC  0.0          0.0 1.0          93.53  0.01774
      0.0-85.0101.2-60.0 95.9  1.0 94.5  6.0 94.3  9.0 94.2 10.8 94.4
      0.0 11.4 94.3 11.9 94.2 12.4 94.1 12.9 93.9 13.4 93.7 13.9 93.5
      0.0 14.4 93.5 14.9 93.5 15.4 93.5 15.9 93.5 16.4 93.6 16.9 93.6
      0.0 17.5 93.7 17.9 93.8 18.4 94.0 18.9 94.1 19.4 94.2 19.9 94.2
      0.0 20.4 94.2 20.9 94.1 21.2 94.3 22.1 95.4 25.7 96.4 31.7 97.5
NS    0.0          3.1          3.1          1.1          1.1          1.3          1.3
NS    0.0          1.3 0.4    1.3 0.3    1.3  .2    3.1  .2    1.3          8.8
NS    0.0          8.8          8.8          8.8          8.8          8.8          8.8
NS    0.0          8.3          8.3          3.8          3.4          3.4          3.4
NS    0.0          2.3          2.3          2.3          1.3          1.3          1.3
WSL   0.0          93.87          93.93          93.99          94.05          94.06          94.10
WSL   0.0          94.13          94.15          94.18          94.20          94.22          94.24
WSL   0.0          94.26          94.28          94.29          94.31          94.32          94.34
WSL   0.0          94.35          94.36          94.37          94.38          94.40          94.41
WSL   0.0          94.42          94.43          94.47          94.50          94.53          94.55
CAL1  0.0          94.33          8.6
VEL1  0.0                                0.00 0.01 0.01 0.42 0.28 2.11
VEL1  0.0  3.21  4.19  4.88  5.25  4.82  3.44  0.21-0.11-0.18-0.11 0.01 0.01
VEL1  0.0  0.01  0.01  0.00
CAL2  0.0          94.00          2.1
VEL2  0.0
VEL2  0.0
VEL2  0.0
CAL3  0.0          94.04          2.8
VEL3  0.0
VEL3  0.0
VEL3  0.0
ENDJ

```

```

Run                HGH                TRANSECT 2
IOC                1101100100001000101000
QARD  1.0
QARD  1.5
QARD  2.1
QARD  2.8
QARD  3.0
QARD  3.5
QARD  4.0
QARD  4.5
QARD  5.0
QARD  5.5
QARD  6.0
QARD  6.5
QARD  7.0
QARD  7.5
QARD  8.0
QARD  8.6
QARD  9.0
QARD  9.5
QARD 10.0
QARD 10.5
QARD 11.0
QARD 11.5
QARD 12.0
QARD 12.5
QARD 13.0
QARD 14.0
QARD 16.0
QARD 18.0
QARD 20.0
QARD 22.0
XSEC  0.0          0.0 1.0          93.53  0.01774
      0.0-85.0101.2-60.0 95.9-30.0 95.7  1.0 95.0  6.0 94.5  8.0 94.7
      0.0 10.0 94.5 10.2 94.6 10.7 94.4 11.2 94.2 11.7 94.2 12.0 93.8
      0.0 12.2 93.3 12.7 93.4 13.1 93.4 13.5 93.7 13.9 93.9 14.3 93.9
      0.0 14.7 94.1 15.1 94.2 15.5 94.4 15.9 94.6 16.1 94.6 18.8 96.5
      0.0 21.0 96.8 21.9 97.5 28.0 99.1
NS    0.0          3.1          3.1          3.1          1.1          1.1          1.1
NS    0.0          1.1          1.1 .60          1.1 .25  1.2 .12  1.2          1.2
NS    0.0          3.4          4.3          8.8          8.8          8.8          8.8
NS    0.0          8.8          8.8          8.8          8.3          8.3          3.1
NS    0.0          3.1          1.3          1.3
WSL   0.0          94.04          94.12          94.19          94.25          94.27          94.30
WSL   0.0          94.33          94.36          94.39          94.42          94.44          94.46
WSL   0.0          94.48          94.50          94.51          94.53          94.54          94.56
WSL   0.0          94.57          94.58          94.60          94.61          94.62          94.63
WSL   0.0          94.64          94.67          94.71          94.75          94.79          94.82
CAL1  0.0          94.55          8.6
VEL1  0.0
      0.00 0.01 0.18 0.20 1.22
VEL1  0.0 2.84 3.75 4.01 4.22 4.31 4.04 3.48 1.03 0.18 0.00
VEL1  0.0
CAL2  0.0          94.17          2.1
VEL2  0.0
VEL2  0.0
VEL2  0.0
CAL3  0.0          94.23          2.8
VEL3  0.0
VEL3  0.0
VEL3  0.0
ENDJ

```

```

Run                HGH                TRANSECT 3
IOC                1100000100001000101000
QARD  1.0
QARD  1.5
QARD  2.1
QARD  2.8
QARD  3.0
QARD  3.5
QARD  4.0
QARD  4.5
QARD  5.0
QARD  5.5
QARD  6.0
QARD  6.5
QARD  7.0
QARD  7.5
QARD  8.0
QARD  8.6
QARD  9.0
QARD  9.5
QARD  10.0
QARD  10.5
QARD  11.0
QARD  11.5
QARD  12.0
QARD  12.5
QARD  13.0
QARD  14.0
QARD  16.0
QARD  18.0
QARD  20.0
QARD  22.0
XSEC  0.0      0.0 1.0      93.53  0.01774
      0.0-11.0 99.9-10.1 95.9-10.0 96.1  1.0 95.2  4.8 95.2  5.5 94.8
      0.0  7.0 94.8  7.5 94.4  8.0 94.3  8.5 94.3  9.0 94.1  9.5 94.0
      0.0 10.0 93.7 10.5 93.6 11.0 93.5 11.5 93.6 12.0 93.8 12.5 94.0
      0.0 13.0 94.3 13.5 94.4 14.0 94.4 14.5 94.6 14.7 94.8 18.0 98.6
      0.0 20.5 99.7 25.5 102.6
NS    0.0      3.1      3.1      1.3      1.1      1.1 0.5  1.1
NS    0.0 0.20  1.1 0.15  1.1      3.1 0.08  3.1      3.1      3.1
NS    0.0      3.1      3.4      5.4      8.5      8.8      8.8
NS    0.0      8.8      8.8      8.8      8.8      3.1      3.1
NS    0.0      3.1      1.3
WSL   0.0      94.10     94.17     94.24     94.33     94.35     94.41
WSL   0.0      94.46     94.50     94.54     94.58     94.61     94.65
WSL   0.0      94.68     94.71     94.74     94.78     94.80     94.82
WSL   0.0      94.84     94.85     94.87     94.89     94.91     94.92
WSL   0.0      94.94     94.97     95.03     95.08     95.13     95.17
CAL1  0.0      94.80      8.6
VEL1  0.0                                0.00 0.01 0.84 1.93 1.44 1.32
VEL1  0.0 1.93 1.83 1.78 1.74 1.85 1.85 1.60 1.16 1.03 0.43 0.00
VEL1  0.0
CAL2  0.0      94.26      2.1
VEL2  0.0
VEL2  0.0
VEL2  0.0
CAL3  0.0      94.31      2.8
VEL3  0.0
VEL3  0.0
VEL3  0.0
ENDJ

```



Stream: Larkin Creek  
 Site: 634  
 Date: 5/10/2004  
 Habitat: Rifle

Flow: High

| BM/HP (ft) | BS (ft) | HI (ft) | FS (ft) | Elev (ft) |
|------------|---------|---------|---------|-----------|
| BM         | 3.11    | 103.11  |         | 100.00    |
| HP1        |         |         | 4.49    | 98.62     |
| HP2        |         |         | 4.53    | 98.58     |
| HP3        |         |         | 4.14    | 98.97     |
| TP         |         |         |         |           |
| HP3        | 4.00    | 102.97  |         |           |
| HP2        |         |         | 4.40    | 98.57     |
| HP1        |         |         | 4.37    | 98.60     |
| BM         |         |         | 2.98    | 99.99     |

Comment:

Date: 6/24/2004  
 Habitat: Rifle

Flow: Low

| BM/HP (ft) | BS (ft) | HI (ft) | FS (ft) | Elev (ft) |
|------------|---------|---------|---------|-----------|
| BM         | 7.76    | 107.76  |         | 100.00    |
| HP1        |         |         | 9.14    | 98.62     |
| HP2        |         |         | 9.17    | 98.59     |
| HP3        |         |         | 8.78    | 98.98     |
| TP         |         |         |         |           |
| HP1        | 9.32    | 107.94  |         |           |
| HP2        |         |         | 9.36    | 98.58     |
| HP3        |         |         | 8.96    | 98.98     |
| BM         |         |         | 7.94    | 100.00    |

Comment:

Date: 8/17/2004  
 Habitat: Rifle

Flow: Mid

| BM/HP (ft) | BS (ft) | HI (ft) | FS (ft) | Elev (ft) |
|------------|---------|---------|---------|-----------|
| BM         | 7.13    | 107.13  |         | 100.00    |
| HP1        |         |         | 8.51    | 98.62     |
| HP2        |         |         | 8.54    | 98.59     |
| HP3        |         |         |         |           |
| TP         |         |         |         |           |
| HP3        |         |         |         |           |
| HP2        | 8.37    | 106.96  |         | 98.59     |
| HP1        |         |         | 8.34    | 98.62     |
| BM         |         |         | 6.95    | 100.01    |

Comment: Could not find TR3 HP.

(2) Water Surface Elevation (WSE) Survey

| TR  | Station  |          | Rod (ft) | FS (ft) | HI (ft) | Ave (ft) | WSE (ft) | Ave WSE (ft) | Q (cfs) |
|-----|----------|----------|----------|---------|---------|----------|----------|--------------|---------|
|     | L/R (ft) | Ave (ft) |          |         |         |          |          |              |         |
| 1-L | 0        | 0        | 0.00     | 5.54    | 102.97  | 0        | 97.43    | 97.43        | 8.7     |
| 1-R | 0        | 0        | 0.00     | 5.55    | 102.97  | 0        | 97.42    | 97.42        | 8.7     |
| 2-L | 33       | 37       | 0.00     | 5.23    | 102.97  | 0        | 97.74    | 97.73        | 8.3     |
| 2-R | 40       | 40       | 0.00     | 5.25    | 102.97  | 0        | 97.72    | 97.72        | 8.3     |
| 3-L | 57       | 59       | 0.00     | 4.91    | 102.97  | 0        | 98.06    | 98.08        | 8.7     |
| 3-R | 61       | 61       | 0.00     | 4.87    | 102.97  | 0        | 98.10    | 98.10        | 8.7     |

Note: WSE taken on surface  
 WSE slope = 1.110%

Ave Q= 8.7

(3) Meter and propeller ID for Velocity Correction

Meter ID: 4099  
 Propeller ID: 1A

(2) Water Surface Elevation (WSE) Survey

| TR  | Station  |          | Rod (ft) | FS (ft) | HI (ft) | Ave (ft) | WSE (ft) | Ave WSE (ft) | Q (cfs) |
|-----|----------|----------|----------|---------|---------|----------|----------|--------------|---------|
|     | L/R (ft) | Ave (ft) |          |         |         |          |          |              |         |
| 1-L | 0        | 0        | 0.00     | 10.88   | 107.94  | 0        | 97.06    | 97.06        | 2.0     |
| 1-R | 0        | 0        | 0.00     | 10.86   | 107.94  | 0        | 97.06    | 97.06        | 2.0     |
| 2-L | 33       | 37       | 0.00     | 10.51   | 107.94  | 0        | 97.43    | 97.43        | 2.0     |
| 2-R | 40       | 40       | 0.00     | 10.52   | 107.94  | 0        | 97.43    | 97.43        | 2.0     |
| 3-L | 57       | 59       | 0.00     | 10.35   | 107.94  | 0        | 97.59    | 97.59        | 2.5     |
| 3-R | 61       | 61       | 0.00     | 10.27   | 107.94  | 0        | 97.59    | 97.59        | 2.5     |

Note: Center WSE TR1=10.87, TR2=10.52, TR3=10.26  
 WSE slope = 0.898%

Ave Q= 2.2

(3) Meter and propeller ID for Velocity Correction

Meter ID: 3602  
 Propeller ID: 3a

(2) Water Surface Elevation (WSE) Survey

| TR  | Station  |          | Rod (ft) | FS (ft) | HI (ft) | Ave (ft) | WSE (ft) | Ave WSE (ft) | Q (cfs) |
|-----|----------|----------|----------|---------|---------|----------|----------|--------------|---------|
|     | L/R (ft) | Ave (ft) |          |         |         |          |          |              |         |
| 1-L | 0        | 0        | 0.00     | 9.84    | 106.96  | 0        | 97.12    | 97.12        | 3       |
| 1-R | 0        | 0        | 0.00     | 9.84    | 106.96  | 0        | 97.12    | 97.12        | 3       |
| 2-L | 33       | 37       | 0.00     | 9.47    | 106.96  | 0        | 97.49    | 97.48        | 2.4     |
| 2-R | 40       | 40       | 0.00     | 9.50    | 106.96  | 0        | 97.46    | 97.46        | 2.4     |
| 3-L | 57       | 59       | 0.00     | 9.27    | 106.96  | 0        | 97.69    | 97.70        | 2.7     |
| 3-R | 61       | 61       | 0.00     | 9.25    | 106.96  | 0        | 97.71    | 97.71        | 2.7     |

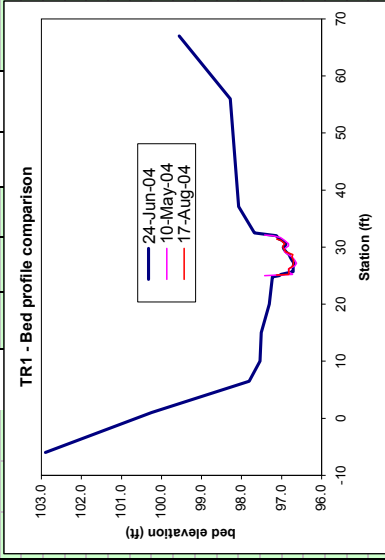
Note: 30' d/s of TR1 10.61, rod .6, 65' u/s of TR3 8.98, rod .46  
 WSE slope = 0.983%

Ave Q= 2.8

(3) Meter and propeller ID for Velocity Correction

Meter ID: 4099  
 Propeller ID: 1a

| Stream: Larkin Creek |              |                 | 10-May-04 |         |             |            | 24-Jun-04                        |                      |         |           | 17-Aug-04 |          |             |            |                                  |                      |         |           |     |
|----------------------|--------------|-----------------|-----------|---------|-------------|------------|----------------------------------|----------------------|---------|-----------|-----------|----------|-------------|------------|----------------------------------|----------------------|---------|-----------|-----|
| Site: 634            | Transsect: I | Habitat: Riffle | Sta (ft)  | FS (ft) | Ground (ft) | Depth (ft) | Vel (ft/s) V <sub>0.20,0.6</sub> | V <sub>0.8</sub> Ave | q (cfs) | substrate | Sta (ft)  | FS (ft)  | Ground (ft) | Depth (ft) | Vel (ft/s) V <sub>0.20,0.6</sub> | V <sub>0.8</sub> Ave | q (cfs) | substrate |     |
|                      |              |                 | RWP       | 25.0    | 97.43       | 0.00       | 0.00                             | 0.00                 | 0.00    | 1.1       | RWE       | 25.0     | 97.23       | 0.00       | 0.00                             | 0.00                 | 0.00    | 0.00      | 1.1 |
|                      |              |                 | RWE       | 25.2    | 96.73       | 0.70       | 0.00                             | 0.01                 | 0.00    | 1.2       |           | 25.2     | 97.01       | 0.05       | 0.05                             | 0.15                 | 0.00    | 1.2       | 1.3 |
|                      | Survey       | HI Q            |           | 25.7    | 96.83       | 0.60       | 1.47                             | 1.53                 | 0.46    | 4.5       |           | 25.7     | 96.71       | 0.35       | 0.24                             | 0.29                 | 0.05    | 4.5       | 1.1 |
|                      | Date (ft)    |                 |           | 26.2    | 96.83       | 0.60       | 2.04                             | 2.12                 | 0.64    | 4.5       |           | 26.2     | 96.71       | 0.35       | 1.27                             | 1.30                 | 0.23    | 4.5       | 1.2 |
|                      | 5/10/2004    | 102.97          | 8.7       | 26.7    | 96.68       | 0.75       | 2.85                             | 2.94                 | 1.10    | 5.4       |           | 26.7     | 96.71       | 0.35       | 1.38                             | 1.41                 | 0.25    | 5.4       | 1.2 |
|                      | 6/24/2004    | 107.94          | 2.0       | 27.2    | 96.63       | 0.80       | 2.89                             | 2.98                 | 1.19    | 5.4       |           | 27.2     | 96.69       | 0.37       | 1.88                             | 1.91                 | 0.35    | 5.4       | 1.1 |
|                      | 8/17/2004    | 106.96          | 2.9       | 27.7    | 96.68       | 0.75       | 3.12                             | 3.22                 | 1.21    | 5.4       |           | 27.7     | 96.74       | 0.32       | 2.19                             | 2.22                 | 0.36    | 5.4       | 1.1 |
|                      |              |                 |           | 28.2    | 96.73       | 0.70       | 2.94                             | 3.04                 | 1.06    | 5.4       |           | 28.2     | 96.78       | 0.28       | 2.05                             | 2.08                 | 0.29    | 5.4       | 1.1 |
|                      |              |                 |           | 28.7    | 96.83       | 0.60       | 2.31                             | 2.39                 | 0.72    | 5.4       |           | 28.7     | 96.81       | 0.25       | 2.02                             | 2.05                 | 0.26    | 5.4       | 1.1 |
|                      |              |                 |           | 29.2    | 96.93       | 0.50       | 2.54                             | 2.63                 | 0.66    | 4.5       |           | 29.2     | 96.89       | 0.17       | 1.23                             | 1.26                 | 0.11    | 4.5       | 1.1 |
|                      |              |                 |           | 29.7    | 96.93       | 0.50       | 2.81                             | 2.90                 | 0.58    | 4.5       |           | 29.7     | 96.94       | 0.12       | 1.36                             | 1.39                 | 0.07    | 4.5       | 1.1 |
|                      |              |                 |           | 30.0    | 96.88       | 0.55       | 2.30                             | 2.38                 | 0.33    | 4.5       |           | 30.0     | 96.96       | 0.10       | 1.28                             | 1.31                 | 0.03    | 4.5       | 1.1 |
|                      |              |                 |           | 30.2    | 96.83       | 0.60       | 1.82                             | 1.89                 | 0.34    | 4.5       |           | 30.2     | 96.91       | 0.15       | 0.97                             | 1.00                 | 0.04    | 4.5       | 1.1 |
|                      |              |                 |           | 30.6    | 96.83       | 0.60       | 0.93                             | 0.97                 | 0.29    | 3.4       |           | * 30.6   | 96.89       | 0.17       | 0.05                             | 0.05                 | 0.00    | 3.4       | 1.1 |
|                      |              |                 |           | 31.2    | 96.93       | 0.50       | 0.30                             | 0.38                 | 0.11    | 3.4       |           | * 31.2   | 96.98       | 0.08       | 0.01                             | 0.01                 | 0.00    | 3.4       | 1.1 |
|                      |              |                 |           | 31.7    | 97.03       | 0.40       | 0.10                             | 0.18                 | 0.03    | 4.1       |           | LWE 31.4 | 97.06       | 0.00       | 0.00                             | 0.00                 | 0.00    | 4.1       | 1.4 |
|                      |              |                 |           | 32.0    | 97.23       | 0.20       | 0.00                             | 0.01                 | 0.00    | 1.4       |           | LWP 32.0 | 97.13       |            |                                  |                      |         | 1.4       | 1.4 |
|                      |              |                 |           | LWE     | 32.1        | 97.43      | 0.00                             | 0.00                 | 0.00    | 0.00      |           | LWP 37.1 | 98.07       |            |                                  |                      |         | 3.1       | 1.3 |
|                      |              |                 |           |         |             |            |                                  |                      |         |           | 67.0      | 8.38     | 99.56       |            |                                  |                      | 3.1     | 3.1       |     |

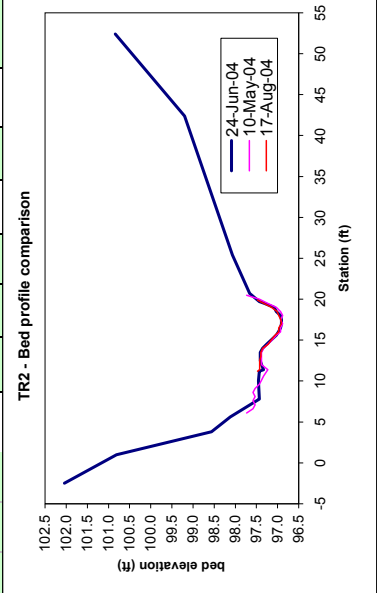


\* - Estimated Velocity  
Average velocity cell updated

\* - Estimated Velocity  
Average velocity cell updated

|            |              | 10-May-04 |      |        |       |                    |                  | 24-Jun-04 |           |      |       |        |       | 17-Aug-04          |                  |           |      |      |        |       |                    |                  |           |      |
|------------|--------------|-----------|------|--------|-------|--------------------|------------------|-----------|-----------|------|-------|--------|-------|--------------------|------------------|-----------|------|------|--------|-------|--------------------|------------------|-----------|------|
| Stream:    | Larkin Creek | Sta       | FS   | Ground | Depth | Vel (ft/s)         | Angle            | q         | substrate | Sta  | FS    | Ground | Depth | Vel (ft/s)         | q                | substrate | Sta  | FS   | Ground | Depth | Vel (ft/s)         | q                | substrate |      |
| Transsect: | 2            | (ft)      | (ft) | (ft)   | (ft)  | V <sub>0.206</sub> | V <sub>0.8</sub> | (deg)     | (cfs)     | (ft) | (ft)  | (ft)   | (ft)  | V <sub>0.206</sub> | V <sub>0.8</sub> | (cfs)     | (ft) | (ft) | (ft)   | (ft)  | V <sub>0.206</sub> | V <sub>0.8</sub> | (cfs)     | (ft) |
| Habitat:   | Riffle       |           |      |        |       |                    | Ave              |           |           |      |       |        |       |                    |                  |           |      |      |        |       |                    |                  |           |      |
| Survey     | HI           | Q         |      |        |       |                    |                  |           |           |      |       |        |       |                    |                  |           |      |      |        |       |                    |                  |           |      |
| Date       | (ft)         | (cfs)     |      |        |       |                    |                  |           |           |      |       |        |       |                    |                  |           |      |      |        |       |                    |                  |           |      |
| 5/10/2004  | 102.97       | 8.3       | RWP  | 6.1    | 97.73 | 0.00               | 0.00             | 0.00      |           | 2.5  | 5.90  | 102.04 |       | 0.00               | 0.00             | 0.00      | 11.2 | 11.2 | 97.48  | 0.00  | 0.00               | 0.00             | 0.00      |      |
| 6/24/2004  | 107.94       | 2.0       | RWE  | 6.6    | 97.58 | 0.15               | 0.05             | 0.00      |           | 11.4 | 97.33 | 100.81 |       | 0.00               | 0.00             | 0.00      | 11.4 | 11.4 | 97.43  | 0.05  | 0.00               | 0.01             | 0.00      |      |
| 8/17/2004  | 106.96       | 2.4       | *    | 7.1    | 97.53 | 0.20               | 0.05             | 0.00      |           | 12.0 | 97.38 | 98.56  |       | 0.03               | 0.00             | 0.00      | 12.0 | 12.0 | 97.43  | 0.05  | 0.00               | 0.01             | 0.00      |      |
|            |              |           |      | 7.6    | 97.58 | 0.15               | 0.05             | 0.00      |           | 12.5 | 97.41 | 98.12  |       | 0.00               | 0.00             | 0.00      | 12.5 | 12.5 | 97.43  | 0.05  | 0.00               | 0.01             | 0.00      |      |
|            |              |           |      | 8.1    | 97.53 | 0.20               | 0.05             | 0.00      |           | 13.0 | 97.41 | 97.43  |       | 0.00               | 0.00             | 0.00      | 13.0 | 13.0 | 97.40  | 0.08  | 0.00               | 0.01             | 0.00      |      |
|            |              |           |      | 8.6    | 97.58 | 0.15               | 0.05             | 90        | 0.00      | 14.0 | 97.35 | 97.45  |       | 0.00               | 0.00             | 0.00      | 14.0 | 14.0 | 97.36  | 0.12  | 0.00               | 0.01             | 0.00      |      |
|            |              |           |      | 9.1    | 97.53 | 0.20               | 0.05             | 90        | 0.00      | 14.5 | 97.26 | 97.43  |       | -0.01              | 0.00             | 0.00      | 14.5 | 14.5 | 97.23  | 0.25  | 0.05               | 0.11             | 0.01      |      |
|            |              |           |      | 9.6    | 97.43 | 0.30               | 0.05             | 90        | 0.00      | 15.0 | 97.15 | 97.43  |       | 0.00               | 0.00             | 0.00      | 15.0 | 15.0 | 97.16  | 0.32  | 0.04               | 0.08             | 0.17      |      |
|            |              |           |      | 10.1   | 97.38 | 0.35               | 0.05             |           | 0.01      | 15.6 | 97.03 | 97.43  |       | 0.84               | 0.00             | 0.00      | 15.6 | 15.6 | 97.06  | 0.42  | 1.45               | 1.51             | 0.32      |      |
|            |              |           |      | 10.6   | 97.33 | 0.40               | 0.00             |           | 0.01      | 16.0 | 96.98 | 97.43  |       | 1.44               | 0.00             | 0.00      | 16.0 | 16.0 | 96.98  | 0.50  | 1.79               | 1.86             | 0.42      |      |
|            |              |           |      | 11.4   | 97.23 | 0.50               | 0.83             |           | 0.31      | 16.5 | 96.93 | 97.43  |       | 1.23               | 0.00             | 0.00      | 16.5 | 16.5 | 96.98  | 0.50  | 0.73               | 0.78             | 0.19      |      |
|            |              |           |      | 12.0   | 97.38 | 0.35               | 1.06             |           | 0.21      | 17.0 | 96.91 | 97.43  |       | 0.84               | 0.00             | 0.00      | 17.0 | 17.0 | 96.91  | 0.57  | 1.47               | 1.53             | 0.44      |      |
|            |              |           |      | 12.5   | 97.38 | 0.35               | 1.14             |           | 0.21      | 17.5 | 96.91 | 97.43  |       | 1.13               | 0.00             | 0.00      | 17.5 | 17.5 | 96.93  | 0.55  | 0.77               | 0.82             | 0.23      |      |
|            |              |           |      | 13.0   | 97.38 | 0.35               | 1.19             |           | 0.22      | 18.0 | 96.93 | 97.43  |       | 1.04               | 0.00             | 0.00      | 18.0 | 18.0 | 96.98  | 0.50  | 0.91               | 0.95             | 0.24      |      |
|            |              |           |      | 13.5   | 97.38 | 0.35               | 1.31             |           | 0.24      | 18.5 | 97.03 | 97.43  |       | 0.94               | 0.00             | 0.00      | 18.5 | 18.5 | 97.01  | 0.47  | 1.08               | 1.13             | 0.27      |      |
|            |              |           |      | 14.0   | 97.33 | 0.40               | 1.28             |           | 0.27      | 19.0 | 97.08 | 97.43  |       | 0.47               | 0.00             | 0.00      | 19.0 | 19.0 | 97.15  | 0.33  | 0.47               | 0.54             | 0.09      |      |
|            |              |           |      | 14.5   | 97.23 | 0.50               | 1.11             |           | 0.29      | 19.5 | 97.31 | 97.43  |       | -0.01              | 0.00             | 0.00      | 19.5 | 19.5 | 97.33  | 0.15  | 0.00               | 0.01             | 0.00      |      |
|            |              |           |      | 15.0   | 97.13 | 0.60               | 1.26             |           | 0.43      | LWE  | 19.7  | 97.43  | 97.43 |                    | 0.00             | 0.00      | LWE  | 19.9 | 97.48  | 0.00  | 0.00               | 0.00             | 0.00      |      |
|            |              |           |      | 15.6   | 97.03 | 0.70               | 1.57             |           | 0.77      | LWP  | 20.7  | 10.28  | 97.66 |                    |                  |           | LWP  | 25.4 | 9.87   | 98.07 |                    |                  |           |      |
|            |              |           |      | 16.0   | 96.93 | 0.80               | 2.05             |           | 0.77      |      |       |        |       |                    |                  |           |      |      |        |       |                    |                  |           |      |
|            |              |           |      | 16.5   | 96.93 | 0.80               | 2.35             |           | 0.97      |      |       |        |       |                    |                  |           |      |      |        |       |                    |                  |           |      |
|            |              |           |      | 17.0   | 96.88 | 0.85               | 2.01             |           | 0.89      |      |       |        |       |                    |                  |           |      |      |        |       |                    |                  |           |      |
|            |              |           |      | 17.5   | 96.93 | 0.80               | 1.80             |           | 0.75      |      |       |        |       |                    |                  |           |      |      |        |       |                    |                  |           |      |
|            |              |           |      | 18.0   | 96.88 | 0.85               | 1.57             |           | 0.70      |      |       |        |       |                    |                  |           |      |      |        |       |                    |                  |           |      |
|            |              |           |      | 18.5   | 96.93 | 0.80               | 2.03             |           | 0.84      |      |       |        |       |                    |                  |           |      |      |        |       |                    |                  |           |      |
|            |              |           |      | 19.0   | 97.03 | 0.70               | 1.32             |           | 0.48      |      |       |        |       |                    |                  |           |      |      |        |       |                    |                  |           |      |
|            |              |           |      | 19.5   | 97.23 | 0.50               | 0.44             |           | 0.13      |      |       |        |       |                    |                  |           |      |      |        |       |                    |                  |           |      |
|            |              |           |      | 20.0   | 97.43 | 0.30               | 0.00             |           | 0.00      |      |       |        |       |                    |                  |           |      |      |        |       |                    |                  |           |      |
|            |              |           |      | LWE    | 20.5  | 97.73              | 0.00             | 0.00      | 0.00      |      |       |        |       |                    |                  |           |      |      |        |       |                    |                  |           |      |
|            |              |           |      | LWP    |       |                    |                  |           |           |      |       |        |       |                    |                  |           |      |      |        |       |                    |                  |           |      |

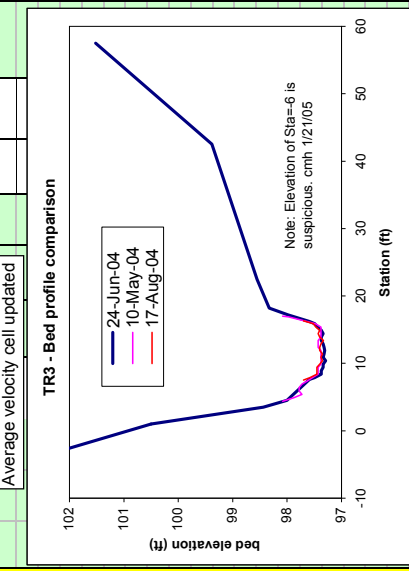
\* Estimated Velocity  
Average velocity cell updated



| Stream: Larkin Creek | 10-May-04 |         |             |            |                            |                         |            |         |           |          | 24-Jun-04 |             |            |                            |                         |            |         |           |          |         | 17-Aug-04   |            |                            |                         |            |         |           |  |  |  |
|----------------------|-----------|---------|-------------|------------|----------------------------|-------------------------|------------|---------|-----------|----------|-----------|-------------|------------|----------------------------|-------------------------|------------|---------|-----------|----------|---------|-------------|------------|----------------------------|-------------------------|------------|---------|-----------|--|--|--|
|                      | Sta (ft)  | FS (ft) | Ground (ft) | Depth (ft) | V <sub>0.20,6</sub> (ft/s) | V <sub>0.8</sub> (ft/s) | Ave (ft/s) | q (cfs) | substrate | Sta (ft) | FS (ft)   | Ground (ft) | Depth (ft) | V <sub>0.20,6</sub> (ft/s) | V <sub>0.8</sub> (ft/s) | Ave (ft/s) | q (cfs) | substrate | Sta (ft) | FS (ft) | Ground (ft) | Depth (ft) | V <sub>0.20,6</sub> (ft/s) | V <sub>0.8</sub> (ft/s) | Ave (ft/s) | q (cfs) | substrate |  |  |  |
| RWP                  | 4.4       |         | 98.08       | 0.00       | 0.00                       | 0.00                    | 0.00       |         | -4.0      | 5.35     | 102.59    |             |            |                            |                         |            |         | 1.3       |          |         |             |            |                            |                         |            |         |           |  |  |  |
| RWE                  | 4.9       |         | 97.88       | 0.20       | 0.00                       | 0.01                    | 0.00       |         | 1.0       | 7.44     | 100.50    |             |            |                            |                         |            |         | 1.3       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 5.4       |         | 97.73       | 0.35       | 0.00                       | 0.01                    | 0.00       |         | 3.5       | 9.50     | 98.44     |             |            |                            |                         |            |         | 2.1       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 5.9       |         | 97.78       | 0.30       | 0.05                       | 0.05                    | 0.01       |         | 7.6       | 97.59    | 98.00     | 0.00        | 0.00       | 0.00                       | 0.00                    | 0.00       | 0.00    | 1.2       |          |         |             |            |                            |                         |            |         |           |  |  |  |
| 6/24/2004            | 6.4       |         | 97.78       | 0.30       | 0.05                       | 0.05                    | 0.01       |         | 7.9       | 97.49    | 98.00     | 0.10        | 0.10       | 0.10                       | 0.10                    | 0.10       | 0.10    | 8.2       |          |         |             |            |                            |                         |            |         |           |  |  |  |
| 8/17/2004            | 6.9       |         | 97.73       | 0.35       | 0.05                       | 0.11                    | 0.02       |         | 8.4       | 97.37    | 98.00     | 0.22        | 0.22       | 0.22                       | 0.22                    | 0.22       | 0.22    | 4.5       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 7.4       |         | 97.63       | 0.45       | 0.72                       | 0.77                    | 0.17       |         | 8.9       | 97.37    | 98.00     | 0.22        | 0.22       | 0.22                       | 0.22                    | 0.22       | 0.22    | 4.5       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 7.9       |         | 97.53       | 0.55       | 0.78                       | 0.83                    | 0.23       |         | 9.4       | 97.34    | 98.00     | 0.25        | 0.25       | 0.25                       | 0.25                    | 0.25       | 0.25    | 4.5       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 8.4       |         | 97.43       | 0.65       | 1.26                       | 1.32                    | 0.43       |         | 9.9       | 97.34    | 98.00     | 0.25        | 0.25       | 0.25                       | 0.25                    | 0.25       | 0.25    | 4.5       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 8.9       |         | 97.43       | 0.65       | 1.72                       | 1.79                    | 0.58       |         | 10.4      | 97.29    | 98.00     | 0.30        | 0.30       | 0.30                       | 0.30                    | 0.30       | 0.30    | 4.5       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 9.4       |         | 97.43       | 0.65       | 1.48                       | 1.54                    | 0.50       |         | 10.9      | 97.34    | 98.00     | 0.25        | 0.25       | 0.25                       | 0.25                    | 0.25       | 0.25    | 4.5       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 9.9       |         | 97.38       | 0.70       | 1.41                       | 1.47                    | 0.52       |         | 11.4      | 97.32    | 98.00     | 0.27        | 0.27       | 0.27                       | 0.27                    | 0.27       | 0.27    | 4.5       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 10.9      |         | 97.38       | 0.70       | 1.36                       | 1.42                    | 0.50       |         | 12.4      | 97.32    | 98.00     | 0.27        | 0.27       | 0.27                       | 0.27                    | 0.27       | 0.27    | 4.5       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 11.4      |         | 97.38       | 0.70       | 1.70                       | 1.77                    | 0.62       |         | 12.9      | 97.34    | 98.00     | 0.25        | 0.25       | 0.25                       | 0.25                    | 0.25       | 0.25    | 4.5       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 11.9      |         | 97.38       | 0.70       | 1.41                       | 1.47                    | 0.52       |         | 13.4      | 97.37    | 98.00     | 0.22        | 0.22       | 0.22                       | 0.22                    | 0.22       | 0.22    | 4.5       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 12.4      |         | 97.43       | 0.65       | 1.66                       | 1.73                    | 0.56       |         | 13.9      | 97.37    | 98.00     | 0.22        | 0.22       | 0.22                       | 0.22                    | 0.22       | 0.22    | 4.5       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 12.9      |         | 97.43       | 0.65       | 1.68                       | 1.75                    | 0.57       |         | 14.4      | 97.34    | 98.00     | 0.25        | 0.25       | 0.25                       | 0.25                    | 0.25       | 0.25    | 4.5       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 13.4      |         | 97.43       | 0.65       | 1.90                       | 1.98                    | 0.64       |         | 14.9      | 97.37    | 98.00     | 0.22        | 0.22       | 0.22                       | 0.22                    | 0.22       | 0.22    | 4.5       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 13.9      |         | 97.38       | 0.70       | 1.35                       | 1.41                    | 0.49       |         | 15.4      | 97.44    | 98.00     | 0.15        | 0.15       | 0.15                       | 0.15                    | 0.15       | 0.15    | 4.3       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 14.4      |         | 97.38       | 0.70       | 0.74                       | 0.79                    | 0.28       |         | 15.9      | 97.49    | 98.00     | 0.10        | 0.10       | 0.10                       | 0.10                    | 0.10       | 0.10    | 3.4       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 14.9      |         | 97.38       | 0.70       | 1.71                       | 1.78                    | 0.62       |         | LWE       | 16.2     | 97.59     | 0.00        | 0.00       | 0.00                       | 0.00                    | 0.00       | 0.00    | 3.1       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 15.4      |         | 97.38       | 0.70       | 1.44                       | 1.50                    | 0.53       |         | 17.2      | 9.96     | 97.98     |             |            |                            |                         |            |         | 1.2       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 15.9      |         | 97.48       | 0.60       | 1.18                       | 1.23                    | 0.37       |         | 18.2      | 9.61     | 98.33     |             |            |                            |                         |            |         | 1.1       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 16.4      |         | 97.73       | 0.35       | 0.00                       | 0.01                    | 0.00       |         | LWP       | 22.5     | 9.39      | 98.55       |            |                            |                         |            |         | 1.1       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | 16.9      |         | 97.98       | 0.10       | 0.00                       | 0.01                    | 0.00       |         | 42.5      | 8.56     | 99.38     |             |            |                            |                         |            |         | 1.3       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | LWE       | 17.0    | 98.08       | 0.00       | 0.00                       | 0.00                    | 0.00       |         | 57.5      | 6.42     | 101.52    |             |            |                            |                         |            |         | 3.1       |          |         |             |            |                            |                         |            |         |           |  |  |  |
|                      | LWP       |         |             |            |                            |                         |            |         |           |          |           |             |            |                            |                         |            |         |           |          |         |             |            |                            |                         |            |         |           |  |  |  |

\* - Estimated Velocity  
Average velocity cell updated

\* - Estimated Velocity  
Average velocity cell updated



\* - Estimated Velocity  
Average velocity cell updated

| Riffle | HGH                    |           |          |       |         |       |       |      |      |      |      | TRANSECT 1 |
|--------|------------------------|-----------|----------|-------|---------|-------|-------|------|------|------|------|------------|
| IOC    | 1100000100001000101000 |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 1.0                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 1.5                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 2.1                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 2.8                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 3.0                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 3.5                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 4.0                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 4.5                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 5.0                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 5.5                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 6.0                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 6.5                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 7.0                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 7.5                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 8.0                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 8.6                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 9.0                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 9.5                    |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 10.0                   |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 10.5                   |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 11.0                   |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 11.5                   |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 12.0                   |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 12.5                   |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 13.0                   |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 14.0                   |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 16.0                   |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 18.0                   |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 20.0                   |           |          |       |         |       |       |      |      |      |      |            |
| QARD   | 22.0                   |           |          |       |         |       |       |      |      |      |      |            |
| XSEC   | 0.0                    | 0.0       | 1.0      | 96.63 | 0.01110 |       |       |      |      |      |      |            |
|        | 0.0                    | -6.0102.9 | 1.0100.3 | 6.5   | 97.8    | 10.0  | 97.5  | 15.0 | 97.5 | 25.0 | 97.4 |            |
|        | 0.0                    | 25.2      | 96.7     | 25.7  | 96.8    | 26.2  | 96.8  | 26.7 | 96.7 | 27.2 | 96.6 | 27.7       |
|        | 0.0                    | 28.2      | 96.7     | 28.7  | 96.8    | 29.2  | 96.9  | 29.7 | 96.9 | 30.0 | 96.9 | 30.2       |
|        | 0.0                    | 30.6      | 96.8     | 31.2  | 96.9    | 31.7  | 97.0  | 32.0 | 97.2 | 32.1 | 97.4 | 32.5       |
|        | 0.0                    | 37.1      | 98.1     | 56.0  | 98.3    | 67.0  | 99.6  |      |      |      |      |            |
| NS     | 0.0                    | 3.1       | 1.3      | 1.1   | 1.2     | 1.1   | 0.15  | 1.1  |      |      |      |            |
| NS     | 0.0                    | .075      | 1.2      | .060  | 4.5     | 4.5   | 5.4   | 5.4  |      |      |      |            |
| NS     | 0.0                    | 5.4       | 5.4      | 4.5   | 4.5     | 4.5   |       |      |      |      |      |            |
| NS     | 0.0                    | 3.4       | 3.4      | 4.1   | 1.4     | 1.4   |       |      |      |      |      |            |
| NS     | 0.0                    | 1.3       | 3.1      | 3.1   |         |       |       |      |      |      |      |            |
| WSL    | 0.0                    | 96.98     | 97.03    | 97.08 | 97.13   | 97.14 | 97.17 |      |      |      |      |            |
| WSL    | 0.0                    | 97.20     | 97.23    | 97.25 | 97.28   | 97.30 | 97.32 |      |      |      |      |            |
| WSL    | 0.0                    | 97.34     | 97.36    | 97.38 | 97.40   | 97.42 | 97.43 |      |      |      |      |            |
| WSL    | 0.0                    | 97.45     | 97.47    | 97.48 | 97.49   | 97.51 | 97.52 |      |      |      |      |            |
| WSL    | 0.0                    | 97.53     | 97.55    | 97.59 | 97.62   | 97.65 | 97.68 |      |      |      |      |            |
| CAL1   | 0.0                    | 97.43     | 8.6      |       |         |       |       |      |      |      |      |            |
| VEL1   | 0.0                    |           |          | 0.00  | 0.01    | 1.53  | 2.12  | 2.94 | 2.98 | 3.22 |      |            |
| VEL1   | 0.0                    | 3.04      | 2.39     | 2.63  | 2.90    | 2.38  | 1.89  | 0.97 | 0.38 | 0.18 | 0.01 | 0.00       |
| VEL1   | 0.0                    |           |          |       |         |       |       |      |      |      |      |            |
| CAL2   | 0.0                    | 97.06     | 2.1      |       |         |       |       |      |      |      |      |            |
| VEL2   | 0.0                    |           |          |       |         |       |       |      |      |      |      |            |
| VEL2   | 0.0                    |           |          |       |         |       |       |      |      |      |      |            |
| VEL2   | 0.0                    |           |          |       |         |       |       |      |      |      |      |            |
| CAL3   | 0.0                    | 97.12     | 2.8      |       |         |       |       |      |      |      |      |            |
| VEL3   | 0.0                    |           |          |       |         |       |       |      |      |      |      |            |
| VEL3   | 0.0                    |           |          |       |         |       |       |      |      |      |      |            |
| VEL3   | 0.0                    |           |          |       |         |       |       |      |      |      |      |            |
| ENDJ   |                        |           |          |       |         |       |       |      |      |      |      |            |

Riffle HGH TRANSECT 2  
 IOC 1101100000001000101000  
 QARD 1.0  
 QARD 1.5  
 QARD 2.1  
 QARD 2.8  
 QARD 3.0  
 QARD 3.5  
 QARD 4.0  
 QARD 4.5  
 QARD 5.0  
 QARD 5.5  
 QARD 6.0  
 QARD 6.5  
 QARD 7.0  
 QARD 7.5  
 QARD 8.0  
 QARD 8.6  
 QARD 9.0  
 QARD 9.5  
 QARD 10.0  
 QARD 10.5  
 QARD 11.0  
 QARD 11.5  
 QARD 12.0  
 QARD 12.5  
 QARD 13.0  
 QARD 14.0  
 QARD 16.0  
 QARD 18.0  
 QARD 20.0  
 QARD 22.0  
 XSEC 0.0 0.0 1.0 96.88 0.01110  
 0.0 -2.5102.0 1.0100.8 3.8 98.6 5.6 98.1 6.1 97.7 6.6 97.6  
 0.0 7.1 97.5 7.6 97.6 8.1 97.5 8.6 97.6 9.1 97.5 9.6 97.4  
 0.0 10.1 97.4 10.6 97.3 11.4 97.2 12.0 97.4 12.5 97.4 13.0 97.4  
 0.0 13.5 97.4 14.0 97.3 14.5 97.2 15.0 97.1 15.6 97.0 16.0 96.9  
 0.0 16.5 96.9 17.0 96.9 17.5 96.9 18.0 96.9 18.5 96.9 19.0 97.0  
 0.0 19.5 97.2 20.0 97.4 20.5 97.7 20.7 97.7 25.4 98.1 42.4 99.2  
 0.0 52.4100.8  
 NS 0.0 1.3 1.3 1.3 2.1 2.1 2.1  
 NS 0.0 2.1 2.1 .70 2.1 .60 2.1 .50 2.1 0.4 2.1  
 NS 0.0 0.3 2.1 0.2 2.1 3.5 5.3 5.4 5.4  
 NS 0.0 5.4 5.4 3.4 3.4 3.4 4.5  
 NS 0.0 5.4 5.4 5.4 5.4 5.4 3.4  
 NS 0.0 1.2 0.20 1.2 1.1 1.1 1.1 3.1  
 NS 0.0 3.1  
 CAL1 0.0 97.73 8.6  
 VEL1 0.0 0.00 0.05 0.05 0.05 0.05 0.05 0.05 0.05  
 VEL1 0.0 0.05 0.01 0.88 1.11 1.19 1.24 1.37 1.34 1.16 1.32 1.64 2.13  
 VEL1 0.0 2.44 2.09 1.87 1.64 2.11 1.38 0.51 0.01 0.00  
 VEL1 0.0  
 CAL2 0.0 97.43 2.1  
 VEL2 0.0  
 VEL2 0.0  
 VEL2 0.0  
 VEL2 0.0  
 CAL3 0.0 97.48 2.8  
 VEL3 0.0  
 VEL3 0.0  
 VEL3 0.0  
 VEL3 0.0  
 ENDJ

| Riffle | HGH                    |       |       |       |          |       |      |       |       |       |      | TRANSECT 3 |      |
|--------|------------------------|-------|-------|-------|----------|-------|------|-------|-------|-------|------|------------|------|
| IOC    | 1100000100001000101000 |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 1.0                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 1.5                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 2.1                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 2.8                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 3.0                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 3.5                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 4.0                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 4.5                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 5.0                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 5.5                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 6.0                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 6.5                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 7.0                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 7.5                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 8.0                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 8.6                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 9.0                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 9.5                    |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 10.0                   |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 10.5                   |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 11.0                   |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 11.5                   |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 12.0                   |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 12.5                   |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 13.0                   |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 14.0                   |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 16.0                   |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 18.0                   |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 20.0                   |       |       |       |          |       |      |       |       |       |      |            |      |
| QARD   | 22.0                   |       |       |       |          |       |      |       |       |       |      |            |      |
| XSEC   | 0.0                    | 0.0   | 1.0   | 97.38 | 0.008983 |       |      |       |       |       |      |            |      |
|        | 0.0                    | 1.0   | 100.5 | 3.5   | 98.4     | 4.4   | 98.1 | 4.9   | 97.9  | 5.4   | 97.7 | 5.9        | 97.8 |
|        | 0.0                    | 6.4   | 97.8  | 6.9   | 97.7     | 7.4   | 97.6 | 7.9   | 97.5  | 8.4   | 97.4 | 8.9        | 97.4 |
|        | 0.0                    | 9.4   | 97.4  | 9.9   | 97.4     | 10.4  | 97.4 | 10.9  | 97.4  | 11.4  | 97.4 | 11.9       | 97.4 |
|        | 0.0                    | 12.4  | 97.4  | 12.9  | 97.4     | 13.4  | 97.4 | 13.9  | 97.4  | 14.4  | 97.4 | 14.9       | 97.4 |
|        | 0.0                    | 15.4  | 97.4  | 15.9  | 97.5     | 16.4  | 97.7 | 16.9  | 98.0  | 17.0  | 98.1 | 17.2       | 98.0 |
|        | 0.0                    | 18.2  | 98.3  | 22.5  | 98.6     | 42.5  | 99.4 | 57.5  | 101.5 |       |      |            |      |
| NS     | 0.0                    | 1.3   |       | 2.1   |          | 2.1   | 0.8  | 2.1   | 0.8   | 2.1   |      | 2.1        |      |
| NS     | 0.0                    | 2.1   |       | 2.1   |          | 1.2   |      | 8.2   |       | 4.5   |      | 4.5        |      |
| NS     | 0.0                    | 4.5   |       | 4.5   |          | 4.5   |      | 4.5   |       | 4.5   |      | 4.5        |      |
| NS     | 0.0                    | 4.5   |       | 4.5   |          | 4.5   |      | 4.5   |       | 4.5   |      | 4.5        |      |
| NS     | 0.0                    | 4.3   |       | 3.4   |          | 3.1   | .15  | 3.1   | .15   | 3.1   |      | 1.2        |      |
| NS     | 0.0                    | 1.1   |       | 1.1   |          | 1.3   |      | 3.1   |       |       |      |            |      |
| WSL    | 0.0                    | 97.54 |       | 97.58 |          | 97.61 |      | 97.72 |       | 97.76 |      | 97.81      |      |
| WSL    | 0.0                    | 97.85 |       | 97.88 |          | 97.92 |      | 97.95 |       | 97.97 |      | 98.00      |      |
| WSL    | 0.0                    | 98.02 |       | 98.04 |          | 98.06 |      | 98.08 |       | 98.09 |      | 98.11      |      |
| WSL    | 0.0                    | 98.12 |       | 98.14 |          | 98.16 |      | 98.17 |       | 98.19 |      | 98.20      |      |
| WSL    | 0.0                    | 98.22 |       | 98.24 |          | 98.30 |      | 98.35 |       | 98.39 |      | 98.43      |      |
| CAL1   | 0.0                    | 98.08 |       | 8.6   |          |       |      |       |       |       |      |            |      |
| VEL1   | 0.0                    |       | 0.00  | 0.01  | 0.01     | 0.05  | 0.05 | 0.11  | 0.77  | 0.83  | 1.32 | 1.79       |      |
| VEL1   | 0.0                    | 1.54  | 1.47  | 1.49  | 1.42     | 1.77  | 1.47 | 1.73  | 1.75  | 1.98  | 1.41 | 0.79       | 1.78 |
| VEL1   | 0.0                    | 1.50  | 1.23  | 0.01  | 0.01     | 0.00  |      |       |       |       |      |            |      |
| CAL2   | 0.0                    | 97.59 |       | 2.1   |          |       |      |       |       |       |      |            |      |
| VEL2   | 0.0                    |       |       |       |          |       |      |       |       |       |      |            |      |
| VEL2   | 0.0                    |       |       |       |          |       |      |       |       |       |      |            |      |
| VEL2   | 0.0                    |       |       |       |          |       |      |       |       |       |      |            |      |
| CAL3   | 0.0                    | 97.70 |       | 2.8   |          |       |      |       |       |       |      |            |      |
| VEL3   | 0.0                    |       |       |       |          |       |      |       |       |       |      |            |      |
| VEL3   | 0.0                    |       |       |       |          |       |      |       |       |       |      |            |      |
| VEL3   | 0.0                    |       |       |       |          |       |      |       |       |       |      |            |      |
| ENDJ   |                        |       |       |       |          |       |      |       |       |       |      |            |      |