

Table 26 Descriptions of sediments sampled along Thicketty Creek - continued.

| Block | Station number | Sample number | Material sampled | Depth of sample below surface of flood plain (feet) | Screening characteristics |                                                       |                                         |                           |                                                            |      |                |       |                               |                        | Minerals in concentrate |                       |                        |                       |                        |                       |                        |                       |                        |                       |                        |                       |                        |                       |                        |           |          |            |            |                              |         |        |        |
|-------|----------------|---------------|------------------|-----------------------------------------------------|---------------------------|-------------------------------------------------------|-----------------------------------------|---------------------------|------------------------------------------------------------|------|----------------|-------|-------------------------------|------------------------|-------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------------------|------------------------|-----------|----------|------------|------------|------------------------------|---------|--------|--------|
|       |                |               |                  |                                                     | Plus 1/4 inch             |                                                       |                                         | Minus 1/4 - plus 1/8 inch |                                                            |      | Minus 1/8 inch |       | Weight of concentrate (grams) | Sieve fraction         |                         | Monazite              |                        | Ilmenite              |                        | Rutile                |                        | Zircon                |                        | Garnet                |                        | Kyanite               |                        | Sillimanite           |                        | Magnetite | Hematite | Staurolite | Tourmaline | Amphibole, pyroxene, biotite | Epidote | Quartz | Others |
|       |                |               |                  |                                                     | Volume ratio              | Composition (percent)                                 | Maximum intermediate dimension (inches) | Volume ratio              | Composition (percent)                                      | Sand | Silt and clay  | Mesh  |                               | Percent of concentrate | Percent of concentrate  | Pounds per cubic yard | Percent of concentrate | Pounds per cubic yard | Percent of concentrate | Pounds per cubic yard | Percent of concentrate | Pounds per cubic yard | Percent of concentrate | Pounds per cubic yard | Percent of concentrate | Pounds per cubic yard | Percent of concentrate | Pounds per cubic yard |                        |           |          |            |            |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                |       |                               |                        |                         |                       |                        |                       |                        |                       |                        |                       |                        |                       |                        |                       |                        |                       | Percent of concentrate |           |          |            |            |                              |         |        |        |
| B     | 22             | 52-PK-128     | Riffle sand      | 4                                                   | 6                         | 45 gtz, 25 bio sch, 15 sill sch, 10 peg, 5 fcls & bio | 1 1/2                                   | 5                         | 50 gtz, 25 sill sch, 15 bio sch, 5 peg, 5 fcls             | 21   | 143.6          | 45    | 17                            | 2                      | 10                      | 1                     | —                      | —                     | 4                      | —                     | —                      | 4                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | —          | —                            | —       |        |        |
| cont. |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 100   | 54                            | 4                      | 27                      | 3                     | —                      | —                     | 5                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | 15         |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 170   | 28                            | 1                      | 16                      | to                    | —                      | —                     | —                      | —                     | —                      | 1                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | 10         |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | Total |                               | 7                      | 2.0                     | 53                    | 15.2                   | 4                     | 1.1                    | —                     | —                      | 9                     | 2.6                    | —                     | —                      | 1                     | 0.3                    | 1                     | —                      | —         | —        | —          | 25         |                              |         |        |        |
| C     | 19             | 52-PK-73      | Riffle sand      | 5                                                   | 3                         | 35 bio sch, 30 gtz, 20 peg, 10 sill sch, 5 fcls       | 1 1/2                                   | 5                         | 35 bio sch, 30 gtz, 15 fcls, 10 sill sch, 10 peg           | 22   | 67.4           | 45    | 14                            | 5                      | 5                       | 1                     | —                      | —                     | 3                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | —          | —                            |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 100   | 62                            | —                      | 25                      | 12                    | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | 14         |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 170   | 24                            | 3                      | 5                       | 1                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | 16         |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | Total |                               | 8                      | 1.1                     | 25                    | 4.7                    | 14                    | 1.9                    | —                     | —                      | 3                     | 0.4                    | —                     | —                      | 13                    | 1.7                    | to                    | —                      | —         | 3        | —          | —          | 24                           |         |        |        |
|       | 30             | 52-PK-75      | Riffle gravel    | 4                                                   | 16                        | 65 gtz, 20 bio sch, 10 peg, 5 fcls                    | 4                                       | 6                         | 40 bio sch, 30 gtz, 15 sill sch, 10 fcls, 5 peg            | 10   | 87.3           | 45    | 12                            | 6                      | 5                       | —                     | —                      | to                    | —                      | —                     | 1                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | —          | —                            |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 100   | 50                            | 21                     | 19                      | 7                     | —                      | —                     | —                      | —                     | 1                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | 1          |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 170   | 38                            | 2                      | 12                      | 3                     | to                     | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | to       | 16         |            |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | Total |                               | 29                     | 5.0                     | 36                    | 6.3                    | 10                    | 1.7                    | to                    | —                      | 2                     | 0.3                    | —                     | —                      | 6                     | 1.0                    | to                    | —                      | —         | —        | to         | 17         |                              |         |        |        |
|       |                | 52-PK-76      | Bank clay        | 3 1/2                                               | to                        | gtz                                                   | 2                                       | to                        | fcls, bio sch, gtz                                         | 4    | 24             | 33.1  | 45                            | 5                      | 2                       | 3                     | to                     | —                     | —                      | to                    | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | —          |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 100   | 37                            | 9                      | 12                      | 7                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | —          |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 170   | 58                            | 10                     | 10                      | 16                    | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | 7          |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | Total |                               | 21                     | 1.6                     | 25                    | 2.0                    | 23                    | 1.8                    | —                     | —                      | to                    | —                      | —                     | —                      | 24                    | 1.9                    | to                    | —                      | —         | —        | —          | —          | 7                            |         |        |        |
|       | 21             | 52-PK-74      | Riffle sand      | 5                                                   | 7                         | 30 gtz, 30 peg, 25 bio sch, 10 sill sch, 5 fcls       | 2                                       | 6                         | 35 gtz, 30 bio sch, 20 peg, 10 fcls, 5 musc                | 20   | 52.4           | 45    | 5                             | to                     | 2                       | —                     | —                      | —                     | —                      | 3                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | —          | —                            |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 100   | 49                            | 4                      | 21                      | 6                     | —                      | —                     | —                      | —                     | 3                      | —                     | —                      | —                     | 10                     | —                     | —                      | —                     | —                      | —         | —        | —          | 5          |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 170   | 45                            | to                     | 13                      | 7                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | 10                     | —                     | —                      | 2                     | —                      | —         | —        | —          | 13         |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | Total |                               | 4                      | 0.4                     | 36                    | 3.8                    | 13                    | 1.4                    | —                     | —                      | 6                     | 0.6                    | —                     | —                      | 20                    | 3.1                    | 1                     | —                      | 2         | —        | —          | —          | 18                           |         |        |        |
|       | 22             | 52-PK-72      | Riffle gravel    | 7                                                   | 17                        | 35 bio sch, 25 bio sch, 25 fcls, 15 peg               | 3 1/2                                   | 4                         | 60 bio sch, 25 gtz, 10 sill sch, 5 fcls                    | 11   | 123.3          | 45    | 35                            | 3                      | 20                      | 1                     | —                      | —                     | —                      | —                     | 11                     | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | —          | —                            |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 100   | 47                            | 8                      | 18                      | —                     | —                      | —                     | —                      | —                     | 4                      | —                     | —                      | —                     | 2                      | —                     | —                      | —                     | —                      | —         | —        | —          | 15         |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 170   | 16                            | to                     | 7                       | —                     | —                      | —                     | —                      | 1                     | to                     | —                     | —                      | —                     | 1                      | —                     | —                      | —                     | —                      | —         | —        | —          | 7          |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | Total |                               | 11                     | 2.7                     | 45                    | 11.1                   | 1                     | 0.2                    | 1                     | 0.2                    | 15                    | 3.7                    | —                     | —                      | 3                     | 0.7                    | 2                     | —                      | —         | —        | —          | —          | 22                           |         |        |        |
|       | 23             | 52-PK-70      | Riffle gravel    | 5                                                   | 15                        | 70 bio sch, 20 peg, 5 sill sch, 5 fcls                | 4                                       | 3                         | 35 bio sch, 35 gtz, 20 sill sch, 10 fcls                   | 10   | 114.0          | 45    | 30                            | 7                      | 18                      | —                     | —                      | —                     | —                      | —                     | 5                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | —          | —                            |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 100   | 50                            | 7                      | 19                      | 1                     | —                      | —                     | —                      | —                     | 1                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | 19         |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 170   | 19                            | 1                      | 3                       | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | 15         |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | Total |                               | 15                     | 3.4                     | 40                    | 9.1                    | 1                     | 0.2                    | 2                     | 0.5                    | 6                     | 1.4                    | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | 34         |                              |         |        |        |
|       |                | 52-PK-71      | Bank gravel      | 6                                                   | 10                        | 65 bio sch, 25 peg, 10 fcls                           | 3                                       | 1                         | 70 bio sch, 25 gtz, 20 peg, 15 fcls                        | 11   | 126.0          | 45    | 17                            | 3                      | 12                      | to                    | —                      | —                     | —                      | —                     | 2                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | —          | to                           |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 100   | 61                            | 13                     | 26                      | 5                     | —                      | —                     | —                      | —                     | 1                      | —                     | —                      | —                     | 5                      | —                     | —                      | —                     | 1                      | —         | —        | —          | 10         |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 170   | 22                            | to                     | 10                      | to                    | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | 1                      | —                     | —                      | to                    | 2                      | —         | —        | —          | 9          |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | Total |                               | 16                     | 4.8                     | 48                    | 14.3                   | 5                     | 1.5                    | —                     | —                      | 3                     | 0.9                    | —                     | —                      | 6                     | 1.8                    | to                    | —                      | 1         | 2        | —          | —          | 19                           |         |        |        |
| D     | 27             | 52-PK-68      | Riffle gravel    | 2 1/2                                               | 7                         | 50 gtz, 20 bio sch, 15 peg, 10 fcls, 5 sill sch       | 2                                       | 6                         | 55 gtz, 15 fcls, 10 bio sch, 10 peg, 5 bio sch, 5 musc sch | 18   | 22.1           | 45    | 18                            | 1                      | 10                      | —                     | —                      | —                     | —                      | 4                     | —                      | —                     | —                      | —                     | to                     | —                     | —                      | —                     | —                      | 2         | to       | 1          | —          | —                            |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 100   | 57                            | 2                      | 19                      | —                     | —                      | —                     | —                      | —                     | 2                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | 6        | —          | 26         |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 170   | 22                            | 2                      | 8                       | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | 2        | —          | 10         |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | Total |                               | 5                      | 0.2                     | 37                    | 1.6                    | —                     | —                      | —                     | —                      | 6                     | 0.3                    | —                     | —                      | to                    | —                      | 3                     | —                      | 4         | to       | 9          | —          | 36                           |         |        |        |
|       | 28             | 52-PK-69      | Riffle gravel    | 6                                                   | 10                        | 70 gtz, 10 bio sch, 10 fcls, 5 sill sch, 5 fcls       | 2                                       | 5                         | 75 gtz, 10 sill sch, 10 fcls, 5 bio sch                    | 13   | 192.8          | 45    | 64                            | —                      | —                       | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | 37       | —          | 4          | —                            | 23      |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 100   | 30                            | —                      | 4                       | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | 8         | —        | 2          | —          | 16                           |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 170   | 4                             | —                      | 1                       | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | to                    | —                      | to        | —        | —          | 3          |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | Total |                               | —                      | —                       | 5                     | 1.9                    | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | 2                      | —         | 45       | —          | 6          | —                            | 42      |        |        |
|       | 31             | 52-PK-67      | Riffle gravel    | 7                                                   | 8                         | 60 gtz, 15 bio sch, 10 fcls, 12 peg, 5 sill sch       | 1 1/2                                   | 7                         | 65 gtz, 15 fcls, 10 peg, 5 bio sch, 5 sill sch             | 15   | 47.0           | 45    | 17                            | —                      | —                       | —                     | —                      | —                     | —                      | to                    | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | 17       | —          | —          | —                            |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 100   | 58                            | —                      | —                       | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | 22        | —        | 1          | —          | 35                           |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 170   | 22                            | —                      | 2                       | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | 2         | —        | 1          | —          | 17                           |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | Total |                               | —                      | 2                       | 0.2                   | —                      | —                     | —                      | —                     | to                     | —                     | —                      | —                     | —                      | —                     | —                      | —                     | 3                      | —         | 41       | —          | 2          | to                           | 52      |        |        |
|       | 32             | 52-PK-66      | Riffle gravel    | 6                                                   | 11                        | 70 gtz, 12 fcls, 10 bio, 5 bio sch, 5 peg             | 2                                       | 10                        | 60 gtz, 15 bio sch, 15 fcls, 10 cabots                     | 10   | 40.5           | 45    | 26                            | —                      | 6                       | —                     | —                      | —                     | —                      | 2                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | 18       | —          | —          | —                            |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 100   | 55                            | —                      | 10                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —         | 8        | —          | to         | 37                           |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 170   | 15                            | —                      | 4                       | —                     | —                      | —                     | —                      | —                     | —                      | —                     | —                      | —                     | 1                      | —                     | —                      | —                     | —                      | —         | 1        | —          | —          | 9                            |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | Total |                               | —                      | —                       | 20                    | 1.6                    | —                     | —                      | —                     | —                      | 2                     | 0.2                    | —                     | —                      | 1                     | 0.02                   | 4                     | —                      | 26        | —        | 1          | —          | 46                           |         |        |        |
|       | 33             | 52-PK-65      | Riffle gravel    | 7                                                   | 7                         | 25 gtz, 15 peg, 10 fcls                               | 1 1/2                                   | 6                         | 70 gtz, 20 fcls, 5 bio sch & bio sch, 5 peg                | 17   | No report      |       |                               |                        |                         |                       |                        |                       |                        |                       |                        |                       |                        |                       |                        |                       |                        |                       |                        |           |          |            |            |                              |         |        |        |
| E     | 34             | 52-PK-150     | Riffle gravel    | 8                                                   | 22                        | 45 bio sch, 30 gtz, 15 sill sch, 10 peg               | 3 1/2                                   | 3                         | 35 gtz, 20 sill sch, 20 bio sch, 10 fcls, 10 peg           | 9    | 234.4          | 45    | 33                            | 7                      | 21                      | 1                     | —                      | —                     | 1                      | —                     | 2                      | —                     | —                      | —                     | to                     | —                     | —                      | —                     | —                      | —         | —        | —          | —          | 1                            |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 100   | 56                            | 9                      | 28                      | 1                     | —                      | —                     | —                      | 2                     | —                      | —                     | —                      | 2                     | —                      | —                     | —                      | —                     | to                     | to        | to       | 1          | 13         |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 170   | 9                             | 1                      | 5                       | to                    | to                     | to                    | to                     | to                    | —                      | —                     | —                      | 1                     | —                      | —                     | to                     | to                    | to                     | to        | to       | to         | 2          |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | Total |                               | 17                     | 8.0                     | 54                    | 25.3                   | 2                     | 0.9                    | 1                     | 0.5                    | 4                     | 1.9                    | —                     | —                      | 3                     | 1.4                    | 2                     | to                     | to        | to       | to         | 1          | 16                           |         |        |        |
|       | 35             | 52-PK-149     | Riffle gravel    | 5                                                   | 21                        | 35 sill sch, 30 gtz, 20 bio sch, 15 peg               | 3                                       | 4                         | 35 sill sch, 30 gtz, 15 peg, 10 bio sch, 10 fcls           | 5    | 61.8           | 45    | 53                            | 4                      | 36                      | 1                     | —                      | —                     | —                      | 10                    | —                      | —                     | —                      | 1                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | —          | 1                            |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                | 100   | 43                            | 9                      | 22                      | 2                     | —                      | —                     | —                      | 2                     | —                      | —                     | —                      | 1                     | —                      | —                     | —                      | —                     | —                      | —         | —        | —          | 6          |                              |         |        |        |
|       |                |               |                  |                                                     |                           |                                                       |                                         |                           |                                                            |      |                |       |                               |                        |                         |                       |                        |                       |                        |                       |                        |                       |                        |                       |                        |                       |                        |                       |                        |           |          |            |            |                              |         |        |        |