

Table 4. Stafford County, Virginia Shoreline Attributes - Riparian Land Use and Bank and Buffer Conditions - Plate Summary

| PLATE<br>NUMBER | TOTAL<br>MILES<br><br>SURVEYED |          |      |      |          |      |      |          |       |      | BANK  |      |         |         |         |        |          |        |      |        |      |      | BANK COVER |      |       | BUFFER CONDITION |      |               |       |
|-----------------|--------------------------------|----------|------|------|----------|------|------|----------|-------|------|---|------|---------|---------|---------|--------|----------|--------|------|--------|------|------|------------|------|-------|------------------|------|---------------|-------|
|                 |                                |          |      |      |          |      |      |          |       |      | (bank height and erosion status - miles of shore) |      |         |         |         |        |          |        |      |        |      |      |            |      |       | BEACH PRESENT    |      | MARSH PRESENT |       |
|                 |                                |          |      |      |          |      |      |          |       |      | 0-5 ft  |      |         | 5-10 ft |         |        | 10-30 ft |        |      | >30 ft |      |      | (miles)    |      |       | (miles)          |      | (miles)       |       |
| low             | high                           | undercut | low  | high | undercut | low  | high | undercut | low   | high | undercut  | bare | partial | full    | eroding | stable | eroding  | stable |      |        |      |      |            |      |       |                  |      |               |       |
| 1               | 2.18                           | 0.00     | 0.00 | 1.44 | 0.43     | 0.00 | 0.00 | 0.00     | 0.00  | 0.31 | 1.34  | 0.00 | 0.00    | 0.69    | 0.00    | 0.00   | 0.15     | 0.00   | 0.00 | 0.00   | 0.00 | 0.00 | 0.09       | 0.53 | 1.57  | 0.00             | 0.91 | 0.00          | 0.06  |
| 2               | 2.66                           | 0.00     | 0.00 | 0.00 | 1.84     | 0.14 | 0.00 | 0.00     | 0.25  | 0.43 | 1.78  | 0.00 | 0.00    | 0.23    | 0.24    | 0.00   | 0.34     | 0.09   | 0.00 | 0.00   | 0.00 | 0.00 | 0.24       | 0.21 | 2.22  | 0.45             | 1.24 | 0.00          | 0.21  |
| 3               | 2.73                           | 0.00     | 0.00 | 0.00 | 2.05     | 0.00 | 0.00 | 0.00     | 0.68  | 0.00 | 1.31  | 0.42 | 0.00    | 0.04    | 0.00    | 0.00   | 0.68     | 0.28   | 0.00 | 0.00   | 0.00 | 0.00 | 0.00       | 0.69 | 2.04  | 0.18             | 0.00 | 0.00          | 1.24  |
| 4               | 6.37                           | 0.00     | 0.26 | 0.06 | 2.63     | 0.38 | 0.00 | 0.11     | 2.24  | 0.68 | 1.82  | 0.61 | 0.29    | 0.93    | 0.48    | 0.12   | 1.26     | 0.83   | 0.00 | 0.02   | 0.00 | 0.00 | 0.08       | 2.65 | 3.63  | 0.57             | 0.42 | 0.00          | 0.18  |
| 5               | 8.21                           | 0.18     | 0.00 | 0.39 | 4.47     | 0.15 | 0.00 | 0.41     | 1.80  | 0.81 | 5.58  | 0.00 | 0.00    | 0.59    | 0.09    | 0.00   | 0.96     | 0.11   | 0.04 | 0.85   | 0.00 | 0.00 | 0.00       | 1.33 | 6.88  | 0.00             | 0.14 | 0.00          | 4.22  |
| 6               | 11.73                          | 0.00     | 0.00 | 0.16 | 2.79     | 0.49 | 0.00 | 0.00     | 2.68  | 5.61 | 8.46  | 0.00 | 2.00    | 0.20    | 0.00    | 0.19   | 0.17     | 0.00   | 0.33 | 0.29   | 0.00 | 0.09 | 0.08       | 2.39 | 9.26  | 0.00             | 0.00 | 0.18          | 6.31  |
| 7               | 2.51                           | 0.00     | 0.00 | 0.00 | 0.17     | 0.14 | 0.00 | 0.21     | 0.89  | 1.11 | 2.01  | 0.00 | 0.00    | 0.26    | 0.00    | 0.00   | 0.24     | 0.00   | 0.00 | 0.00   | 0.00 | 0.00 | 0.00       | 0.17 | 2.34  | 0.00             | 1.37 | 0.00          | 0.14  |
| 8               | 6.79                           | 0.00     | 0.00 | 0.00 | 2.94     | 0.49 | 0.00 | 0.00     | 3.31  | 0.05 | 2.93  | 0.02 | 0.68    | 1.44    | 0.65    | 0.02   | 0.66     | 0.07   | 0.00 | 0.30   | 0.02 | 0.00 | 0.13       | 0.96 | 5.69  | 0.00             | 0.93 | 0.00          | 1.84  |
| 9               | 2.91                           | 0.00     | 0.00 | 0.15 | 1.73     | 0.11 | 0.00 | 0.00     | 0.72  | 0.20 | 1.45  | 0.06 | 0.13    | 0.64    | 0.39    | 0.00   | 0.11     | 0.10   | 0.02 | 0.00   | 0.00 | 0.00 | 0.09       | 0.42 | 2.40  | 0.00             | 0.00 | 0.00          | 1.93  |
| 10              | 2.55                           | 0.00     | 0.00 | 0.00 | 1.33     | 0.81 | 0.00 | 0.00     | 0.28  | 0.13 | 1.89  | 0.00 | 0.00    | 0.00    | 0.00    | 0.00   | 0.66     | 0.00   | 0.00 | 0.00   | 0.00 | 0.00 | 0.14       | 0.04 | 2.37  | 0.00             | 0.00 | 0.00          | 0.00  |
| 11              | 2.87                           | 0.17     | 0.00 | 0.00 | 1.95     | 0.73 | 0.00 | 0.00     | 0.00  | 0.02 | 1.57  | 0.00 | 0.00    | 0.34    | 0.00    | 0.00   | 0.78     | 0.18   | 0.00 | 0.00   | 0.00 | 0.00 | 0.18       | 0.05 | 2.64  | 0.00             | 0.26 | 0.00          | 0.00  |
| 12              | 2.67                           | 0.00     | 0.00 | 0.00 | 2.16     | 0.37 | 0.11 | 0.03     | 0.00  | 0.00 | 1.25  | 0.00 | 0.00    | 0.88    | 0.00    | 0.00   | 0.55     | 0.00   | 0.00 | 0.00   | 0.00 | 0.00 | 0.00       | 0.11 | 2.56  | 0.00             | 0.00 | 0.00          | 0.00  |
| 13              | 2.13                           | 0.00     | 0.00 | 0.00 | 1.89     | 0.15 | 0.00 | 0.00     | 0.09  | 0.00 | 1.20  | 0.00 | 0.00    | 0.43    | 0.00    | 0.00   | 0.27     | 0.00   | 0.00 | 0.23   | 0.00 | 0.00 | 0.07       | 0.00 | 2.06  | 0.00             | 0.00 | 0.00          | 0.00  |
| Total*          | 54.46                          | 0.35     | 0.26 | 2.21 | 25.44    | 3.94 | 0.11 | 0.76     | 12.68 | 8.71 | 31.45   | 0.99 | 3.10    | 6.57    | 1.77    | 0.33   | 6.42     | 1.66   | 0.36 | 1.70   | 0.02 | 0.09 | 1.10       | 9.25 | 44.12 | 1.20             | 5.01 | 0.18          | 15.35 |

Table 5. Stafford County, Virginia Shoreline Attributes - Shoreline Features - Plate Summary

| PLATE<br>NUMBER | TOTAL<br>MILES<br>SURVEYED | SHORELINE FEATURES |                          |                   |           |   |                 |                    |             |   |                |                   |                    |                            |                      |                                  |                    |                   |
|-----------------|----------------------------|--------------------|--------------------------|-------------------|-----------|---|-----------------|--------------------|-------------|---|----------------|-------------------|--------------------|----------------------------|----------------------|----------------------------------|--------------------|-------------------|
|                 |                            | No.<br>docks       | No.<br>dilapidated docks | No.<br>boathouses | No. ramps |   | No.<br>outfalls | No.<br>groinfields | No. marinas |   | No.<br>jetties | No.<br>breakwater | Miles of<br>debris | Miles of<br>unconventional | Miles of<br>bulkhead | Miles of<br>dilapidated bulkhead | Miles of<br>riprap | Miles of<br>wharf |
| 1               | 2.18                       | 1                  | 0                        | 0                 | 0         | 0 | 1               | 0                  | 0           | 0 | 0              | 0                 | 0.00               | 0.00                       | 0.03                 | 0.00                             | 0.97               | 0.00              |
| 2               | 2.66                       | 1                  | 0                        | 0                 | 0         | 0 | 1               | 0                  | 0           | 0 | 0              | 0                 | 0.00               | 0.04                       | 0.00                 | 0.00                             | 0.07               | 0.00              |
| 3               | 2.73                       | 9                  | 1                        | 4                 | 6         | 0 | 0               | 0                  | 0           | 0 | 0              | 0                 | 0.00               | 0.00                       | 0.39                 | 0.04                             | 0.39               | 0.00              |
| 4               | 6.37                       | 47                 | 3                        | 16                | 7         | 0 | 3               | 5                  | 0           | 0 | 0              | 1                 | 0.13               | 0.12                       | 1.27                 | 0.07                             | 0.35               | 0.00              |
| 5               | 8.21                       | 41                 | 1                        | 9                 | 11        | 0 | 2               | 1                  | 1           | 3 | 0              | 0                 | 0.04               | 0.00                       | 0.63                 | 0.00                             | 0.54               | 0.00              |
| 6               | 11.73                      | 96                 | 1                        | 6                 | 9         | 0 | 7               | 1                  | 0           | 1 | 0              | 0                 | 0.03               | 0.00                       | 1.23                 | 0.06                             | 0.50               | 0.00              |
| 7               | 2.51                       | 24                 | 0                        | 0                 | 3         | 0 | 1               | 3                  | 0           | 0 | 0              | 1                 | 0.04               | 0.00                       | 0.31                 | 0.08                             | 0.04               | 0.00              |
| 8               | 6.79                       | 95                 | 2                        | 6                 | 9         | 0 | 2               | 4                  | 0           | 0 | 0              | 7                 | 0.03               | 0.00                       | 1.79                 | 0.02                             | 0.00               | 0.00              |
| 9               | 2.91                       | 19                 | 0                        | 1                 | 7         | 0 | 0               | 1                  | 3           | 0 | 0              | 0                 | 0.00               | 0.00                       | 0.37                 | 0.00                             | 0.04               | 0.00              |
| 10              | 2.55                       | 0                  | 0                        | 0                 | 0         | 0 | 0               | 0                  | 0           | 0 | 0              | 0                 | 0.00               | 0.00                       | 0.00                 | 0.00                             | 0.00               | 0.00              |
| 11              | 2.87                       | 0                  | 0                        | 0                 | 0         | 0 | 0               | 0                  | 0           | 0 | 0              | 0                 | 0.00               | 0.00                       | 0.00                 | 0.00                             | 0.00               | 0.00              |
| 12              | 2.67                       | 0                  | 0                        | 0                 | 0         | 1 | 0               | 0                  | 0           | 0 | 0              | 0                 | 0.00               | 0.00                       | 0.00                 | 0.00                             | 0.04               | 0.00              |
| 13              | 2.13                       | 0                  | 0                        | 0                 | 0         | 0 | 0               | 0                  | 0           | 0 | 0              | 0                 | 0.00               | 0.00                       | 0.00                 | 0.00                             | 0.11               | 0.00              |
| Total*          | 54.46                      | 325                | 7                        | 39                | 52        | 1 | 17              | 16                 | 4           | 4 | 0              | 9                 | 0.27               | 0.16                       | 5.85                 | 0.28                             | 2.93               | 0.00              |

Table 6. Stafford County, Virginia Shoreline Attributes - *Phragmites australis*, and Survey Dates.

| PLATE<br>NUMBER | TOTAL<br>MILES<br>SURVEYED | FIELD<br>SURVEY<br>DATES | PHRAGMITES<br>(miles) | PLATE<br>NUMBER | TOTAL<br>MILES<br>SURVEYED | FIELD<br>SURVEY<br>DATES | PHRAGMITES<br>(miles) | PLATE<br>NUMBER | TOTAL<br>MILES<br>SURVEYED | FIELD<br>SURVEY<br>DATES | PHRAGMITES<br>(miles) |
|-----------------|----------------------------|--------------------------|-----------------------|-----------------|----------------------------|--------------------------|-----------------------|-----------------|----------------------------|--------------------------|-----------------------|
| 1               | 2.18                       | 9/1/2005                 | 0.00                  | 6               | 11.73                      | 9/1/2005                 | 0.07                  | 2.55            | 2.81                       | 6/5/2001                 | 0.00                  |
| 2               | 2.66                       | 9/1/2005                 | 0.00                  | 7               | 2.51                       | 7/19/2005                | 0.00                  | 2.87            | 2.74                       | 6/5/2001                 | 0.00                  |
| 3               | 2.73                       | 9/1/2005                 | 0.00                  | 8               | 6.79                       | 7/19/2005                | 0.00                  | 2.67            | 2.66                       | 6/5/2001                 | 0.00                  |
| 4               | 6.37                       | 7/19/2005, 9/1/2005      | 0.02                  | 9               | 2.91                       | 7/17/2001, 7/19/2005     | 0.00                  | 2.13            | 2.50                       | 6/5/2001                 | 0.00                  |
| 5               | 8.21                       | 9/1/2005                 | 0.00                  |                 |                            |                          |                       |                 |                            |                          |                       |

Total miles *Phragmites australis*: 0.09