

Table N: MILL RIVER FRESHWATER TIDAL MARSH VEGETATION, NORTH SITE (MR-N) -- FREQUENCY BY SPECIES AND ZONE, 2008

(Alphabetical)

| Vegetation Zone:<br>Species        | Chain no.: Chains are 5 m. apart and 5 m. long, with 10 sampling points per chain: Total 180 points |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            | 2008         |        |     |
|------------------------------------|---|---|----|-----------|----|----|---------------|---|----|-------------|----|----|-----------------|----|----|-----------|----|------------|--------------|--------|-----|
|                                    | Upper marsh   |   |    | Mid.marsh |    |    | Shrub thicket |   |    | Shrub/marsh |    |    | Dogwood thicket |    |    | Low marsh |    |            | Total        | %Cover |     |
|                                    | 1   | 2 | 3  | 4         | 5  | 6  | 7             | 8 | 9  | 10          | 11 | 12 | 13              | 14 | 15 | 16        | 17 | 18         |              |        |     |
| <i>Apios americana</i>             |   |   |    |           |    |    |               |   |    |             |    |    |                 |    | 1  |           |    |            | 1            | 1      | 0.6 |
| <i>Bidens connata</i>              |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            |              | 1      | 0.6 |
| <i>Bidens frondosa</i>             |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            |              | 0      | 0.0 |
| <i>Bohemeria cylindrica</i>        |   |   |    | 2         | 2  | 5  | 5             |   |    |             |    |    |                 |    |    |           |    |            |              | 14     | 7.8 |
| <i>Cephalanthus occidentalis</i>   |   |   |    |           |    |    |               |   |    |             |    |    |                 | 3  |    |           |    |            |              | 3      | 1.7 |
| <i>Cicuta maculata</i>             |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            |              | 0      | 0.0 |
| <i>Cinna arundinacea</i>           | 1   |   |    |           |    |    |               |   |    |             | 2  |    |                 |    |    | 1         |    |            | 4            | 2.2    |     |
| <i>Cornus amomum</i>               |   |   |    |           |    |    |               | 6 | 10 | 5           | 8  | 10 | 10              | 10 | 10 | 9         | 8  | 8          | 94           | 52.2   |     |
| <i>Cuscuta gronovii</i>            | 1   |   |    |           |    | 1  | 1             |   | 4  |             |    |    |                 |    |    |           |    | 1          | 8            | 4.4    |     |
| <i>Eupatorium maculatum</i>        |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    | 1         |    |            | 2            | 1.1    |     |
| <i>Geum laciniatum</i>             |   |   |    |           |    |    |               |   |    | 1           |    |    |                 | 1  |    |           |    |            | 2            | 1.1    |     |
| <i>Hibiscus moscheutos</i>         |   |   |    |           |    |    | 6             | 4 |    |             |    |    |                 |    |    |           |    |            | 10           | 5.6    |     |
| <i>Impatiens capensis</i>          |   | 8 | 6  | 7         | 10 | 10 | 10            | 3 | 8  | 8           | 6  | 2  | 3               | 3  | 7  | 2         | 7  |            | 100          | 55.6   |     |
| <i>Iris pseudacorus</i>            |   | 3 |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            | 3            | 1.7    |     |
| <i>Leersia oryzoides</i>           |   |   |    |           |    |    |               |   |    | 3           |    |    |                 |    |    |           |    |            | 3            | 1.7    |     |
| <i>Lythrum salicaria</i>           |   | 4 | 8  | 5         | 4  | 3  | 4             | 3 | 1  | 9           |    |    |                 |    |    | 8         |    | 2          | 51           | 28.3   |     |
| <i>Mikania scandens</i>            |   |   |    | 2         |    | 3  | 1             |   |    |             | 3  | 3  |                 |    |    |           |    |            | 12           | 6.7    |     |
| <i>Mimulus ringens</i>             |   |   |    |           | 3  | 1  |               |   |    |             |    |    |                 |    |    |           |    |            | 4            | 2.2    |     |
| <i>Nyphaea odorata</i>             |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            | 0            | 0.0    |     |
| <i>Onoclea sensibilis</i>          |   |   | 10 | 3         |    |    |               |   |    |             | 2  |    |                 |    |    |           |    |            | 15           | 8.3    |     |
| <i>Parthenocissus quinquefolia</i> | 1   |   |    |           |    |    |               |   |    |             |    | 4  | 3               | 1  |    |           |    |            | 9            | 5.0    |     |
| <i>Peltandra virginiana</i>        |   |   |    |           |    |    |               |   |    |             |    |    |                 | 1  |    | 2         | 2  | 4          | 9            | 5.0    |     |
| <i>Pilea pumila</i>                |   |   |    |           | 1  |    |               |   |    | 1           |    |    |                 |    |    | 1         |    |            | 3            | 1.7    |     |
| <i>Polygonum arifolium</i>         |   | 3 | 4  | 1         |    |    |               |   |    | 1           |    |    |                 |    |    |           |    |            | 9            | 5.0    |     |
| <i>Polygonum hydropiper</i>        |   |   |    |           |    |    |               | 1 |    |             |    |    |                 |    |    |           | 1  | 2          | 4            | 2.2    |     |
| <i>Polygonum sagittatum</i>        |   |   |    |           | 3  | 10 | 8             | 1 | 6  | 2           | 1  |    |                 |    |    |           |    |            | 31           | 17.2   |     |
| <i>Pontaeaderia cordata</i>        |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            | 0            | 0.0    |     |
| <i>Solanum dulcamara</i>           |   |   |    |           |    |    |               |   |    |             |    |    |                 | 2  |    |           |    |            | 2            | 1.1    |     |
| <i>Solidago altissima</i>          |   |   |    |           |    |    |               |   | 1  | 3           |    |    |                 | 1  |    |           |    |            | 5            | 2.8    |     |
| <i>Symplotrichum lanceolata</i>    |   |   |    |           |    |    |               |   | 1  | 5           |    | 5  | 2               |    | 2  | 2         |    |            | 17           | 9.4    |     |
| <i>Thelypteris palustris</i>       |   |   | 2  | 9         | 10 | 3  | 1             |   |    |             |    |    |                 |    |    |           |    |            | 25           | 13.9   |     |
| <i>Todxicodendron radicans</i>     |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            | 0            | 0.0    |     |
| <i>Typha angustifolia</i>          |   |   | 10 | 10        | 10 | 10 | 10            | 9 | 6  | 5           | 7  |    |                 |    | 5  |           | 2  |            | 84           | 46.7   |     |
| <i>Verbena hastata</i>             |   |   |    |           | 1  | 1  |               |   |    |             |    |    |                 |    |    |           |    |            | 2            | 1.1    |     |
| <i>Vernonia novaboracensis</i>     |   |   |    |           |    |    |               |   | 2  |             |    |    |                 |    |    |           |    |            | 2            | 1.1    |     |
| <i>Viburnum dentatum</i>           |   |   |    |           |    |    |               |   |    |             | 10 |    |                 |    |    |           |    |            | 10           | 5.6    |     |
| <i>Viburnum lentago</i>            | 2   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            | 2            | 1.1    |     |
| <b>TOTALS</b>                      |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    | <b>541</b> | <b>300.5</b> |        |     |

Table N: MILL RIVER FRESHWATER TIDAL MARSH VEGETATION, NORTH SITE (MR-N) -- FREQUENCY BY SPECIES AND ZONE, 2008

(By percent cover)

| Vegetation Zone:<br>Species        | Chain no.: Chains are 5 m. apart and 5 m. long, with 10 sampling points per chain: Total 180 points |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            | 2008         |        |     |
|------------------------------------|---|---|----|-----------|----|----|---------------|---|----|-------------|----|----|-----------------|----|----|-----------|----|------------|--------------|--------|-----|
|                                    | Upper marsh   |   |    | Mid.marsh |    |    | Shrub thicket |   |    | Shrub/marsh |    |    | Dogwood thicket |    |    | Low marsh |    |            | Total        | %Cover |     |
|                                    | 1   | 2 | 3  | 4         | 5  | 6  | 7             | 8 | 9  | 10          | 11 | 12 | 13              | 14 | 15 | 16        | 17 | 18         |              |        |     |
| <i>Impatiens capensis</i>          |   | 8 | 6  | 7         | 10 | 10 | 10            | 3 | 8  | 8           | 6  | 2  | 3               | 3  | 7  | 2         | 7  |            | 100          | 55.6   |     |
| <i>Cornus amomum</i>               |   |   |    |           |    |    |               | 6 | 10 | 5           | 8  | 10 | 10              | 10 | 10 | 9         | 8  | 8          | 94           | 52.2   |     |
| <i>Typha angustifolia</i>          |   |   | 10 | 10        | 10 | 10 | 10            | 9 | 6  | 5           | 7  |    |                 |    | 5  |           | 2  |            | 84           | 46.7   |     |
| <i>Lythrum salicaria</i>           |   | 4 | 8  | 5         | 4  | 3  | 4             | 3 | 1  | 9           |    |    |                 |    |    | 8         |    | 2          | 51           | 28.3   |     |
| <i>Polygonum sagittatum</i>        |   |   |    |           | 3  | 10 | 8             | 1 | 6  | 2           | 1  |    |                 |    |    |           |    |            | 31           | 17.2   |     |
| <i>Thelypteris palustris</i>       |   |   | 2  | 9         | 10 | 3  | 1             |   |    |             |    |    |                 |    |    |           |    |            | 25           | 13.9   |     |
| <i>Symplotrichum lanceolata</i>    |   |   |    |           |    |    |               |   | 1  | 5           |    | 5  | 2               |    | 2  | 2         |    |            | 17           | 9.4    |     |
| <i>Onoclea sensibilis</i>          |   |   | 10 | 3         |    |    |               |   |    |             | 2  |    |                 |    |    |           |    |            | 15           | 8.3    |     |
| <i>Bohemeria cylindrica</i>        |   |   |    | 2         | 2  | 5  | 5             |   |    |             |    |    |                 |    |    |           |    |            | 14           | 7.8    |     |
| <i>Mikania scandens</i>            |   |   |    | 2         |    | 3  | 1             |   |    |             | 3  | 3  |                 |    |    |           |    |            | 12           | 6.7    |     |
| <i>Hibiscus moscheutos</i>         |   |   |    |           |    |    |               | 6 | 4  |             |    |    |                 |    |    |           |    |            | 10           | 5.6    |     |
| <i>Viburnum dentatum</i>           |   |   |    |           |    |    |               |   |    |             | 10 |    |                 |    |    |           |    |            | 10           | 5.6    |     |
| <i>Polygonum arifolium</i>         |   | 3 | 4  | 1         |    |    |               |   |    | 1           |    |    |                 |    |    |           |    |            | 9            | 5.0    |     |
| <i>Parthenocissus quinquefolia</i> | 1   |   |    |           |    |    |               |   |    |             |    |    | 4               | 3  | 1  |           |    |            | 9            | 5.0    |     |
| <i>Peltandra virginiana</i>        |   |   |    |           |    |    |               |   |    |             |    |    |                 |    | 1  |           | 2  | 2          | 4            | 9      | 5.0 |
| <i>Cuscuta gronovii</i>            | 1   |   |    |           |    | 1  | 1             |   | 4  |             |    |    |                 |    |    |           |    | 1          | 8            | 4.4    |     |
| <i>Solidago altissima</i>          |   |   |    |           |    |    |               |   | 1  | 3           |    |    |                 | 1  |    |           |    |            | 5            | 2.8    |     |
| <i>Mimulus ringens</i>             |   |   |    |           | 3  | 1  |               |   |    |             |    |    |                 |    |    |           |    |            | 4            | 2.2    |     |
| <i>Polygonum hydropiper</i>        |   |   |    |           |    |    |               | 1 |    |             |    |    |                 |    |    |           | 1  | 2          | 4            | 2.2    |     |
| <i>Cinna arundinacea</i>           | 1   |   |    |           |    |    |               |   |    |             | 2  |    |                 |    |    | 1         |    |            | 4            | 2.2    |     |
| <i>Iris pseudacorus</i>            |   | 3 |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            | 3            | 1.7    |     |
| <i>Pilea pumila</i>                |   |   |    |           | 1  |    |               |   |    | 1           |    |    |                 |    |    | 1         |    |            | 3            | 1.7    |     |
| <i>Leersia oryzoides</i>           |   |   |    |           |    |    |               |   |    | 3           |    |    |                 |    |    |           |    |            | 3            | 1.7    |     |
| <i>Cephalanthus occidentalis</i>   |   |   |    |           |    |    |               |   |    |             |    |    |                 | 3  |    |           |    |            | 3            | 1.7    |     |
| <i>Viburnum lentago</i>            | 2   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            | 2            | 1.1    |     |
| <i>Verbena hastata</i>             |   |   |    |           | 1  | 1  |               |   |    |             |    |    |                 |    |    |           |    |            | 2            | 1.1    |     |
| <i>Geum laciniatum</i>             |   |   |    |           |    |    |               |   |    | 1           |    |    |                 | 1  |    |           |    |            | 2            | 1.1    |     |
| <i>Vernonia novaboracensis</i>     |   |   |    |           |    |    |               |   | 2  |             |    |    |                 |    |    |           |    |            | 2            | 1.1    |     |
| <i>Solanum dulcamara</i>           |   |   |    |           |    |    |               |   |    |             |    |    |                 | 2  |    |           |    |            | 2            | 1.1    |     |
| <i>Eupatorium maculatum</i>        |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    | 1         |    | 1          | 2            | 1.1    |     |
| <i>Bidens connata</i>              |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    | 1          | 1            | 0.6    |     |
| <i>Apios americana</i>             |   |   |    |           |    |    |               |   |    |             |    |    |                 |    | 1  |           |    |            | 1            | 0.6    |     |
| <i>Todxicodendron radicans</i>     |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            | 0            | 0.0    |     |
| <i>Pontaeaderia cordata</i>        |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            | 0            | 0.0    |     |
| <i>Cicuta maculata</i>             |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            | 0            | 0.0    |     |
| <i>Nyphaea odorata</i>             |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            | 0            | 0.0    |     |
| <i>Bidens frondosa</i>             |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    |            | 0            | 0.0    |     |
| <b>TOTALS</b>                      |   |   |    |           |    |    |               |   |    |             |    |    |                 |    |    |           |    | <b>541</b> | <b>300.5</b> |        |     |