Worksheet 1B. Examine Category 2 Climate-Smart Design Considerations: *Impacts of Climate Change on Management Actions*

*Black Ducks-Wetlands*

| **B1** | **B2** | **B3** | **B4** | **B5** | **B6** | **B7** | **B8** |
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| **Action number** | **Existing management action** | **Changes in effectiveness of management action due to: climate impacts on target stressor** | **Changes in effectiveness of management action due to: climate impacts on management action** | **Time frame or constraint for using the action and implementation (e.g., urgency, longer or shorter term)** | **What changes are needed to adapt the action (place, time, and engineering design)** | **Climate-Smart Management Action** | **Notes** |
| 1 | **Chesapeake Rivers Conservation Phase II**: Conservation easements and habitat protection & restoration. | * There is little direct effect of climate changes on development, but increases in frequency and intensity of rainstorms may increase effects of development and agriculture.
 | A variety of climate change impacts including flooding, salt marsh migration, salinity changes, large storm events, sea level rise, could affect quality, area, and location of wetlands & upland habitats intended for preservation  | * The urgency comes primarily from the threat of development.
 | * Plantings need to account for changing climate conditions.
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| 2 | **Rappahannock River Conservation Partnership Phase I**: Conservation easements & habitat management. |  |  |  |  |  |  |
| 3 | **Nanticoke Watershed Improvement Project (Maryland**): *Phragmites* eradiation. |  |  |  |  | . |  |
| 4 | **Dragon Run, Phase I (Virginia)**: Conservation easements.  |  |  | . |  |  |  |
| 5 | **Chesapeake Rivers Conservation Phase I**: Conservation easements & habitat protection.  |  |  |  |  |  |  |