

Appendix 1: Survey Questions

Part 1: History Collection Questionnaire

1. How do you think flooding currently affects the reservation or will in the future, if at all?
 - i. How much of a problem is flooding for the reservation?
 - ii. How do you think flooding of the reservation will change in the future?
 - iii. What makes current and future flooding a concern for the reservation?
2. Describe any mitigation (structural e.g., bulkheads, erosion control, levees, or small dams) and/or adaptation (natural e.g., relocating structures, elevating, or adapting locations of activities to accommodate water level changes and flooding) efforts made to reduce the effects of flooding during your lifetime or those of previous generations with which you were in contact?
 - i. What changes to mitigation and/or adaptation occurred during your lifetime or those of previous generations with which you were in contact?
 - ii. How, if at all, was mitigation and/or adaptation influenced by traditional knowledge? e.g., knowledge of flooding, fish migrations, salinity, fishing spots, shore-based facility/cannery, wildlife habits, hunting areas
 - iii. How did mitigation and/or adaptation impact the reservation?
 - iv. What, if anything, makes mitigation and/or adaptation on the reservation positive or negative?
3. What, if any, changes do you recommend that future generations make to mitigate and/or adapt to the effects of flooding?
 - i. How, if at all, should traditional knowledge be incorporated into the mitigation and/or adaptation efforts of future generations?
 - ii. What, if anything, should future generations prioritize when planning to reduce the impact of flooding?
 - iii. When should future generations implement mitigation and/or adaptation efforts?
4. Are there any specific challenges or opportunities about environmental changes for the tribe or the reservation that have not been covered in the above questions? Briefly list or describe.

Part 2: Sea Level Rise Visualizations

The map shows cultural resources identified in *Defining the York River Indigenous Cultural Landscape* and the predicted extent of average tidal flooding in 2040, 2060, and 2080.

List the resources you think should be prioritized based on the numbers you assigned on the map. Briefly explain what the resource is and why it should be prioritized:

- 1.
- 2.
- 3.

[There is no limit to the number of resources you include. Please add more numbers as needed.]

Part 3: Visualization Questionnaire

The maps of predicted sea level rise show future high tides based on NOAA and Commonwealth of Virginia scientific studies.

1. How, if at all, did the maps change your priorities for future mitigation and/or adaptation efforts?
 - i. What about the maps changed your priorities for future mitigation and/or adaptation efforts?

- ii. When should future generations implement changes?
 - iii. Should there be a different level of focus on incorporating traditional knowledge into future mitigation and/or adaptation efforts?
2. What, if anything, would be useful to see in future maps that might improve awareness and/or mitigation / adaptation planning?

Part 4: Resiliency Resources and Strategies Questionnaire

Place an asterisks (*) beside strategies that include traditional knowledge

1. What physical resources could facilitate efforts to adapt and/or mitigate flooding on the reservation and address the priorities you identified on the maps?
 - a. How could these physical resources be prepared for or help the reservation prepare for flooding?
 - b. How could these physical resources absorb or help the reservation absorb the effects of flooding?
 - c. How could these physical resources recover or help the reservation recover from flooding?
 - d. How could these physical resources be adapted or help the reservation adapt to the effects of flooding?
2. What information resources could facilitate efforts to adapt and/or mitigate flooding on the reservation and address the priorities you identified on the maps?
 - a. How could these information resources be prepared for or help the reservation prepare for flooding?
 - b. How could these information resources absorb or help the reservation absorb the effects of flooding?
 - c. How could these information resources recover or help the reservation recover from flooding?
 - d. How could these information resources be adapted or help the reservation adapt to the effects of flooding?
3. What cognitive resources could facilitate efforts to adapt and/or mitigate flooding on the reservation and address the priorities you identified on the maps?
 - a. How could these cognitive resources be prepared for or help the reservation prepare for flooding?
 - b. How could these cognitive resources absorb or help the reservation absorb the effects of flooding?
 - c. How could these cognitive resources recover or help the reservation recover from flooding?
 - d. How could these cognitive resources be adapted or help the reservation adapt to the effects of flooding?
4. What social resources could facilitate efforts to adapt and/or mitigate flooding on the reservation and address the priorities you identified on the maps?
 - a. How could these social resources be prepared for or help the reservation prepare for flooding?
 - b. How could these social resources absorb or help the reservation absorb the effects of flooding?
 - c. How could these social resources recover or help the reservation recover from flooding?
 - d. How could these social resources be adapted or help the reservation adapt to the effects of flooding?
5. What resources, if any, that do not fit into these categories do you think would be useful?

6. Describe any challenges or opportunities you may foresee to implementing these strategies.