Appendix F:
Vulnerability Assessment Technical Advisory Committee Interview Questionnaire

Passaic River Basin Climate Resilience Plan
Vulnerability Assessment TAC Interviews

Name(s):
Title(s):
Organization:
Date:

Climate Change Impacts for this Study
The extent of each of these impacts will be determined as part of this study: • Extreme precipitation events • Sea level rise and storm surge • Extreme heat events

Step One: Discuss the transportation assets in your county
What transportation assets in your county are considered critical and are also located within the Passaic River Basin?
What are the transportation assets that your county is responsible for?

Step 2: Assess the Criticality of your Asset.
This section helps identify each asset's importance for disaster management, evacuation, business continuity, economy, and social aspects of the region.
Are these assets located on evacuation rotes?
How heavily used are these assets? What is ADT (Annual Average Daily Traffic) and ADTT (Annual Average Daily Truck Traffic) of the roadways and the annual ridership of the transit assets?
Is there a detour for these assets should they be taken out of service during a disaster? What is the detour, and the detour length (if known)?
Do the assets have any significant historic, societal/cultural, or tourism importance?

Step 3: Assess the Sensitivity of your Assets.
This section helps identify how sensitive or vulnerable the assets in your sector are to current and expected climate conditions.
What are the known **present day** climate conditions that stress your assets?
How are the assets in your sector sensitive to **present day** climate variability, including seasonal variability? In effect, how do the assets respond, e.g. they flood, or the train breakdowns are more frequently.
What type of flooding event (rain, snow, stormy conditions, tidal flooding, etc. or amount of precipitation over a timeframe) causes risks or challenges to your assets? How long is the asset/corridor out of operation?
If these conditions are made worse by climate change, how severely do you think the assets would be impacted? (High, medium, low; dollar amount; number of affected users; or extent of damage to the infrastructure network)
What is the approximate temperature threshold at which point there would be a risk to/challenge for your asset(s)? Does temperature affect the asset quickly or over an extended timeframe? How long is the asset/corridor out of operation?

Step 4: Assess the Capacity to Adapt to Climate Change
This section explores how well equipped the assets perform to current and expected climate conditions.
How well do the assets in your area respond to current flooding conditions? How well do the assets in your area respond during extreme heat?
What is the "adaptive capacity" of the assets? In other words, how well prepared are the assets to handle the expected impacts of climate change? (Well prepared, moderately prepared, poorly prepared, not sure). Please describe why you think this.
To what extent do current plans, policies, and regulations explicitly account for the impacts of climate change, or inherently provide a buffer against climate impacts? If possible, please provide examples.
How adequate are these existing plans, policies, or regulations for managing climate impacts? (very good, good, fair, poor) How could these be more useful?

Step 5: Follow-up on Action Items from 12/6/17 TAC meeting
This plan will include maps for two representative flooding events. We will select from the four events listed below. • 5-year event = 20% annual chance exceedance probability • 25-year event = 4% annual chance exceedance probability (matches NJDEP's design guidance) • 100-year event = 1% annual chance exceedance probability (matches FEMA National Flood Insurance Program • Flash flood event (TBD)
Do you have a preference from the options above of which flooding events should be mapped as part of the existing vulnerability assessment? Are there others not listed here you feel are important?