Breakout Group A

WE CHANGED OUR MINDS

Availability of data to populate our "asset inventory"

- Around the table, most felt these data exist presently, many already in electronic form (though nothing is centralized)
- General agreement to keep level of infrastructure asset collection at a relatively high level (aka– not bolts, more like water tanks and feet of pipe)
- No specific gaps were identified, but there was interest in gathering additional info BEYOND human-built infrastructure (i.e., on water source) as it would likely impact built environment as well as information on actual amount of water produced on a daily basis (and if this is adequate for the population)

Suggested resources we could use

- ADEC's Drinking water program has an electronic databases associated with its: drinking water survey, surface water system report and sanitary survey
- Community masterplans (owned by the state/state-funded)
- Wastewater deals with a very broad
- Community operators
- RMW's
- Environmental health specialists
- EPA Vulnerability Assessments (2005)

Initial criteria used to evaluate infrastructure included in database

- Condition of system
- Environmental risk to system
- Community capacity/resilience profile

Condition of system

- Age (check IHS/EPA non-Alaskan criteria, be aware of the fact that thee may not be applicable to Alaska)
- Operation/functionality
- Type of material they are constructed out of (length of pipe)*

Environmental risk to system

- Erosion
- Storm surge
- Permafrost thaw/degradation
- Turbidity of source water
- Pathogen threat (as related to climate change)

Community capacity/resilience profile

- Best practices score
- Adequate emergency plans
- History of system function (SNCs, O&M history)

What will the "database" look like?

- There will be a spreadsheet-like database of collected data that corresponds to the med to high level infrastructure info collected
- Each piece of collected infrastructure will have a score for:
  - Condition of system
  - Environmental risk to system
  - Community capacity/resilience profile
- However, we do not see an additional layer to this data base that involves GIS layers for things like permafrost distribution/thaw, erosion risk, etc.
- These maps (along with the database) can be used for decision-making Example: NTUA (Navajo Tribal Utility Association)

Response approach discussion

- Some of our original scoring criteria were relegated to the "related to response" list
  - These include: Other health factors, emerging pathogen threat, demographic profile

Other

- There was a strong push to collect data on actual water produced by treatment plant on a daily basis (in addition to info on peak/design performance)
- There was a desire to track historical performance – this may be part of functionality, but these trends may also be useful in other contexts