

# CSN Filter Archive and Long-term Storage

- CSN began sample collection in 2000
- Teflon, Nylon, and Quartz filters are collected for every sampling event at every site
  - Nylon filter extracts are stored under refrigeration for about 6 months
  - Teflon filters have been stored under refrigeration since 2003
  - Quartz filter remnants were stored in a freezer until late 2018 and then stored under refrigeration
- The CSN repository has close to 450,000 filters
- The rental rate for cold storage has gone up significantly
- UCD has space for 5-7 years of cold storage
- Considering two options:
  - Keep at least 5 years of both Teflon and quartz filters in cold storage for 5 years; rotate old ones out to make room for new ones. Keep old filters in room temperature-controlled storage.
  - Keep 1 year of Teflon filters and at least 5 years of quartz filters in cold storage. Keep remaining filters in room temperature-controlled storage. This is based on the CFR requirements for PM<sub>2.5</sub> FRM Teflon filters to be kept cold for 1 year.

