

Data Intake Processing and Verification Report

Background Information

- **Original Dataset Name:**
 - Observations of carbon dioxide (CO₂), methane (CH₄), and carbon monoxide (CO) mole fractions from the NIST Northeast Corridor urban testbed, 2015-2022
- **GHG Center Dataset Title:** Carbon Dioxide and Methane Concentrations from the Northeast Corridor (NEC) Urban Test Bed
- **Dataset Provider:** NIST
- **Date Obtained:** August 2025
- **Location Obtained From:**
 - <https://data.nist.gov/pdr/lps/ark:/88434/mds2-3012>
- **Data Location in GHG Center:** nec-testbed-ghg-concentrations
- **Data POC(s):** Dr. Anna Karion
- **Dataset File Type(s):** CSV (.csv)
- **Projection (if different from WGS84):** N/A

Data Transfer Confirmation

An SHA-256 checksum is used to detect high-level errors within data transmissions. Results from individual checksum file comparisons of pre-transfer and post-transfer shows all files were transferred successfully and no individual files had any transfer issues.

Data Intake Process

- https://us-ghg-center.github.io/ghgc-docs/data_workflow/nec-testbed-ghg-concentrations_Data_Flow.html

Summary

- We are confident that the display of data in the GHG Center is correct
- There were no problems identified in the data
- Link to [Data Usage Notebook](#)
- Link to [US GHG Center Data Catalog overview page](#)

Report Completed on: 9/15/2024

MSFC POC for questions: [Deborah Smith](#), [Siddharth Chaudhary](#)