

Real-World Greenhouse Gas Emissions from a MY2010 Diesel Truck Traveling Across the Continental United States

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Funded by SCAQMD and CARB, aimed at assessing in-use emissions of a USEPA 2010 emissions-compliant vehicle

WVU Transportable Emissions Measurement System (TEMS), comprised of a full-scale CVS dilution tunnel and laboratory-grade emissions measurement system operating according to principles set forth in 40 CFR 1065

A Mack heavy-duty Class-8 tractor, powered by a MY 2011, 12.8 liter diesel engine, equipped with a DOC-DPF and urea-SCR NOx after-treatment system



Conducted over a total distance of 2,450 miles driven between Morgantown, WV and Riverside, CA

Variety of typically non-integrated sources ~170 channels* of data (~2.4 GB of data)

Regulated gaseous and particulate matter emissions, as well as GHG (N₂O, CO₂, CH₄, and NH₃)

