

In-use emission Testing Results

Clean Fuels Program Advisory Group
Meeting

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Background

In-Use Emissions Testing Program

- 25 heavy-duty vehicles
- Criteria, greenhouse gases, and ammonia emissions
- Gas vehicles' NO_x and PM emissions are lower than diesel counterpart
- Gas vehicles emit high level of ammonia emissions
- SCR can reduce NH₃ and NO_x emissions



Background

Real-World In-Use Emission Testing

- Model year 2010 diesel truck
- 2,500-mile route from Morgantown WV to Riverside
- Low PM and NOx, mostly freeway
- Limited urban traffic conditions



Objective

- Assess real-world in-use emissions from heavy-duty trucks under urban traffic condition
- Measure exhaust plume



Test Matrix

- Test six heavy-duty drayage trucks
 - 2007 & 2013 15L Cummins diesel
 - 2013 12L Cummins Westport CNG
 - 2013 15L DDC, Volvo, & Navistar diesel
- Drive trucks on typical truck routes
 - Ontario to POLA to Ontario
 - Ontario to Needles to Blythe
 - Blythe to Ontario
 - Ontario to Irvine to Ontario
- Measure in-use emissions and exhaust plume



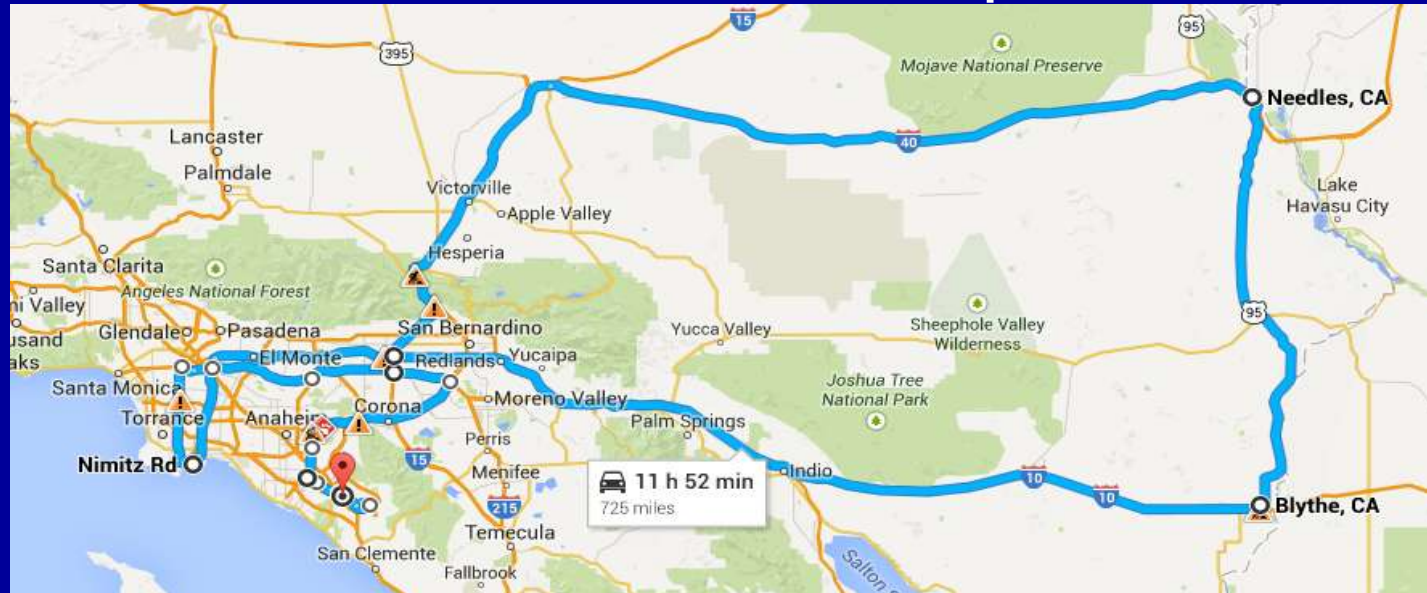
Status

- Test six heavy-duty drayage trucks

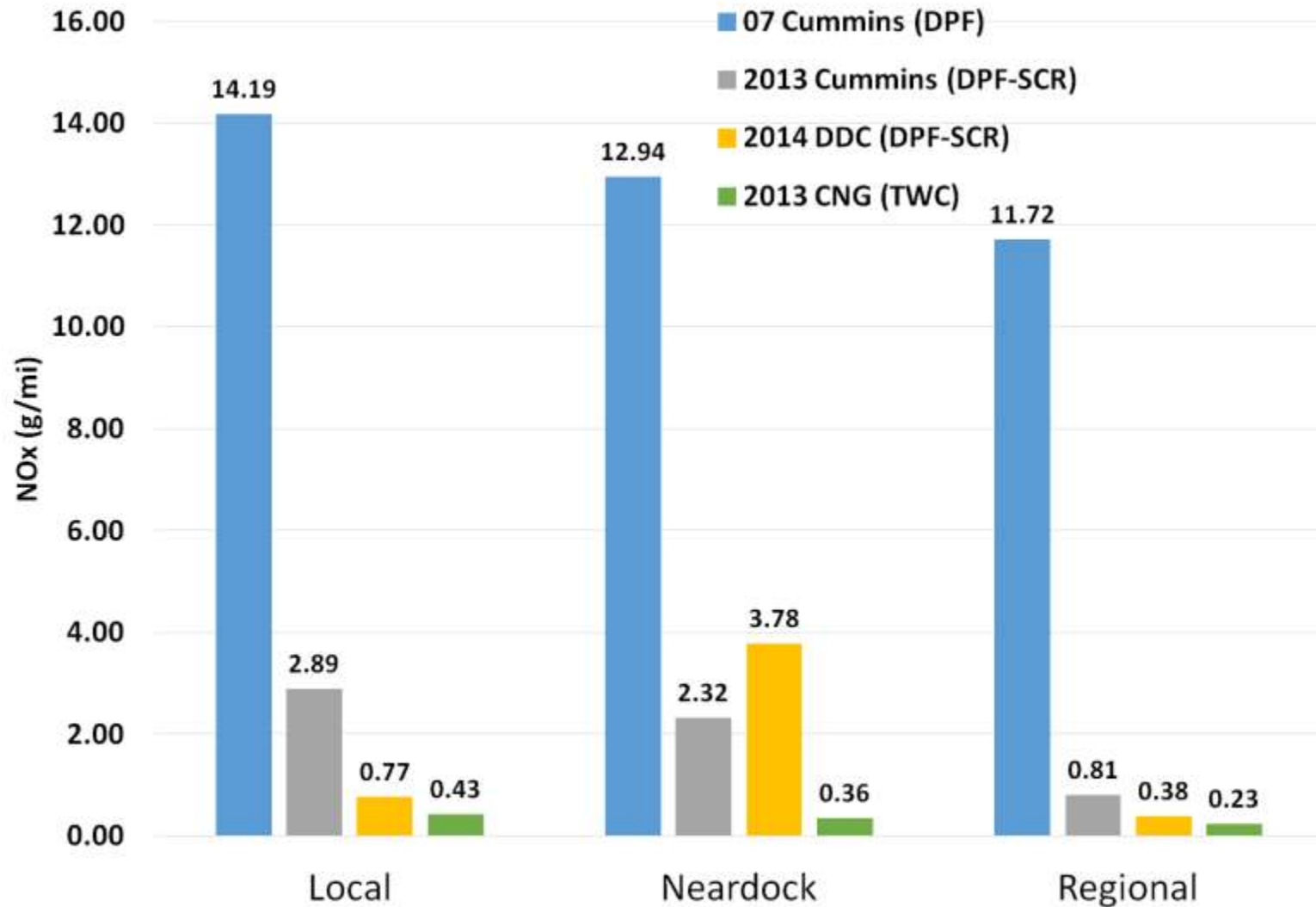
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Preliminary Results



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