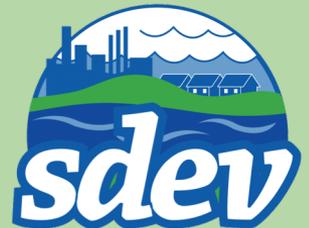


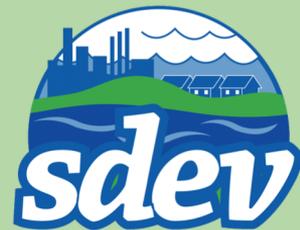
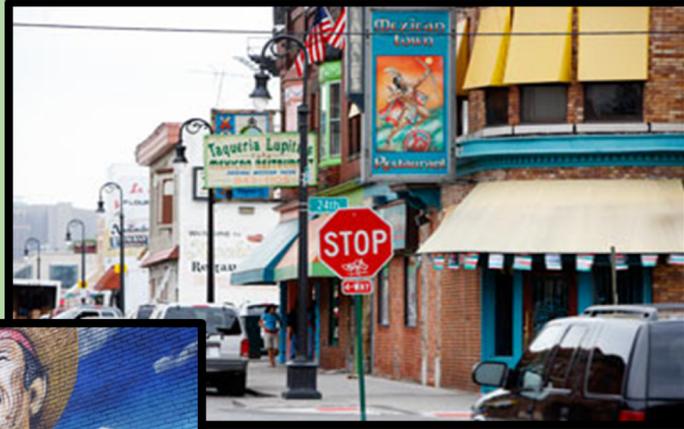
Southwest Detroit Approach to Cutting Diesel Emissions

CMAQ Session

2019 Midwest Clean Diesel Initiative Steering
Committee Meeting
April 24, 2019 – U.S. EPA Region 5

Maggie Striz Calnin, Director – Healthy Air Program,
Southwest Detroit Environmental Vision





SOUTHWEST DETROIT

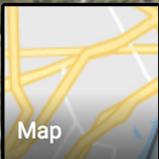
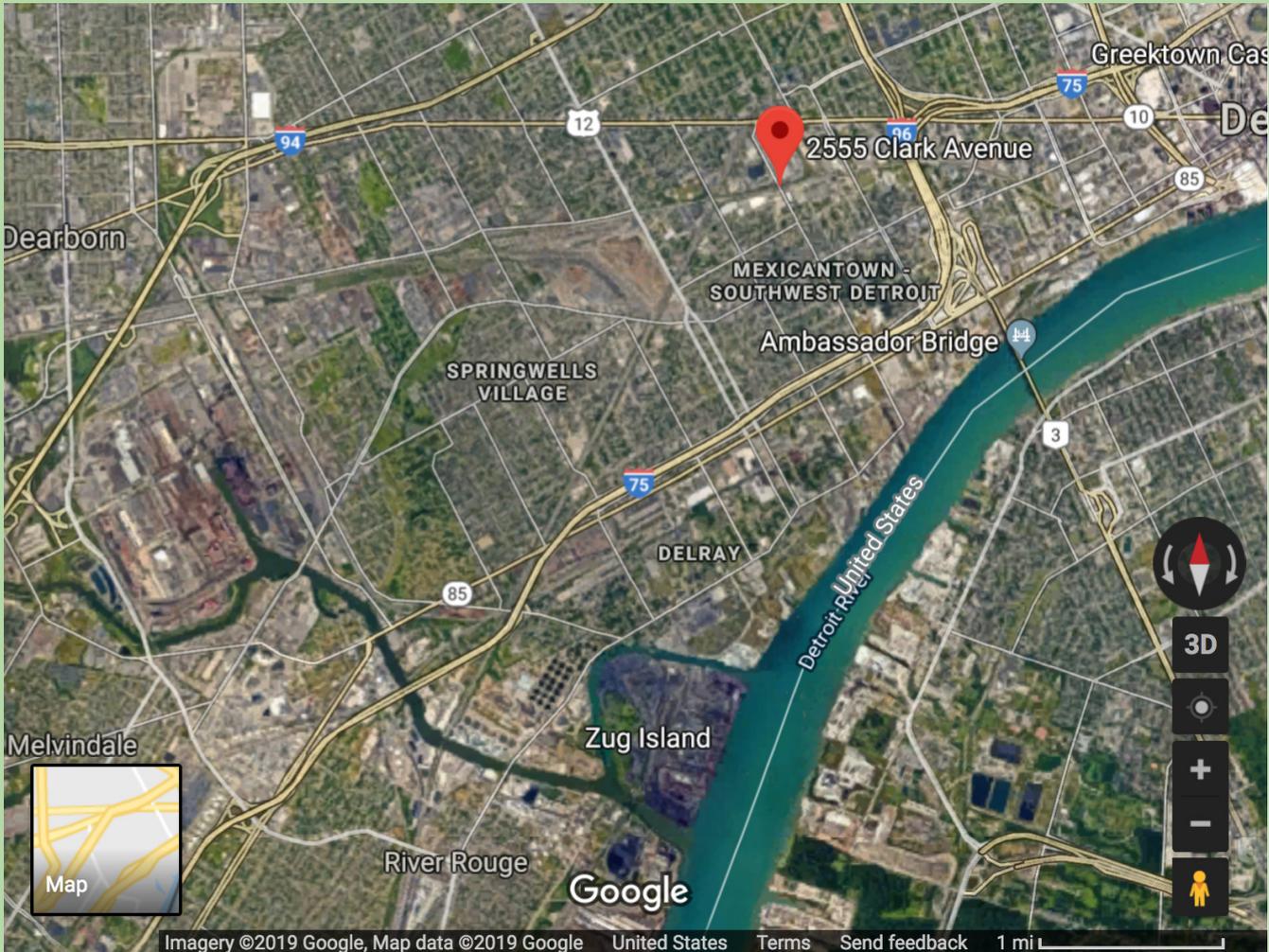


Highways
Steel Mills
Chemical Plants

Coal Fired
Power Plants

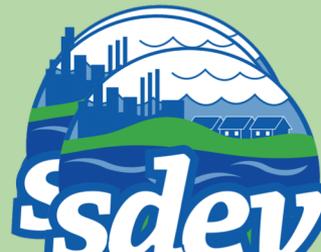
Top 10 Busiest Int'l Border
in North America

-
- Automobile Plant
 - Waste Water Treatment Plant
 - Intermodal Freight Terminal
 - Oil Refinery
 - Port of Detroit
 - I-94; I-75; I-96



WHAT WE DO

- Mission to improve the environment and strengthen the economy of Southwest Detroit
- Work in collaboration with residents, community organizations, government agencies, schools, businesses, and industry
- Focus on environmental issues including:
 - Improving indoor and outdoor air quality
 - Remediating blight (illegal dumping and graffiti*)
 - Compatible neighborhood land use
 - Green stormwater infrastructure
 - Community sustainability projects
 - Community and youth engagement





Past CMAQ Work w/ Partners

A project in 2012 consisted of two main components to reduce diesel emissions from a company located at the Detroit Fort St. Produce Terminal:

1) Electric reefer (refrigeration) units installed on 9 truck trailers, to replace diesel units.

- Plug-in capability also installed on each trailer so the reefer units can be plugged in while the trailers are parked (while unloading or loading produce, or when needed for additional refrigerator space).

2) Updates to electrical infrastructure at the Produce Terminal.

- Reefer units can be plugged directly into the building while they are parked. Other trucks & trailers with plug-in capabilities can also use the electrical outlets while unloading or loading produce.



Past CMAQ Work w/ Partners (cont.)

A project from 2011 consisted of:

- Retrofitting 9 trucks with emissions controls
- Installing BACs & APUs (idle reduction technology) on 16 class 8A trucks
- Repowered four tier 0 diesel engines with newer, cleaner engines



Supplemental Environmental Project impacting SW Detroit Diesel: Rail

- Late 2006, installation of horsepower reduction technology occurred with a switcher locomotive (CSX Transportation).
- This was associated with a Detroit Air Toxics Initiative project funded by U.S. EPA to the Michigan Department of Environmental Quality (Grant No: XA96515301-0).
- There was a separate SEP project in development/active to install idle reduction tech on most all switchyard locomotives in Detroit area

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