

Name _____

Phone Number _____

Email _____

Automated License Plate Reader (ALPR) Locations Worksheet

(Chapter 5b: Neighborhood Truck Traffic, Action 3)

What is an ALPR?

An ALPR is a high-speed, computer-controlled camera system that can capture license plate numbers that come into its view.

How can ALPR reduce emissions in San Bernardino, Muscoy?

ALPR data, when cross-referenced with DMV data, can provide information about trucks (e.g., the chassis model-year and weight class for heavy-duty diesel trucks), which can help build a picture of the fleet makeup that pass a specific location over time. The truck information gathered can be used to estimate emissions. South Coast AQMD staff is exploring the possibility of using this information to notify heavy-duty diesel truck owners that may qualify for incentive programs to replace their older, higher polluting trucks with newer cleaner models.

What is the Purpose of this Worksheet?

The purpose of this worksheet is to prioritize locations for ALPR in the San Bernardino, Muscoy community.

Worksheet Instructions

In the table below, please prioritize three (3) locations where you would like ALPR placed in the San Bernardino, Muscoy community. The figures on the following pages provide air monitoring and planning information that may be useful in determining the locations that you prioritize in the table below.

Location Description (Intersection, City Block, Address, etc.)	Comments
<i>Example: Mt. Vernon Ave. and Kingman St.</i>	<i>NO2 concentrations are elevated and there are truck restrictions there</i>
Additional Comments:	

Figures 1a and 1b – Mobile Nitrogen Dioxide (NO₂) Measurements in San Bernardino, Muscoy

- NO₂ measurements from mobile monitoring were conducted in Fall 2019.
- NO₂ is a tracer for emissions from sources, such as, heavy-duty trucks.
- NO₂ concentrations were generally detected near the BNSF railway, industrial corridors, and freeways.

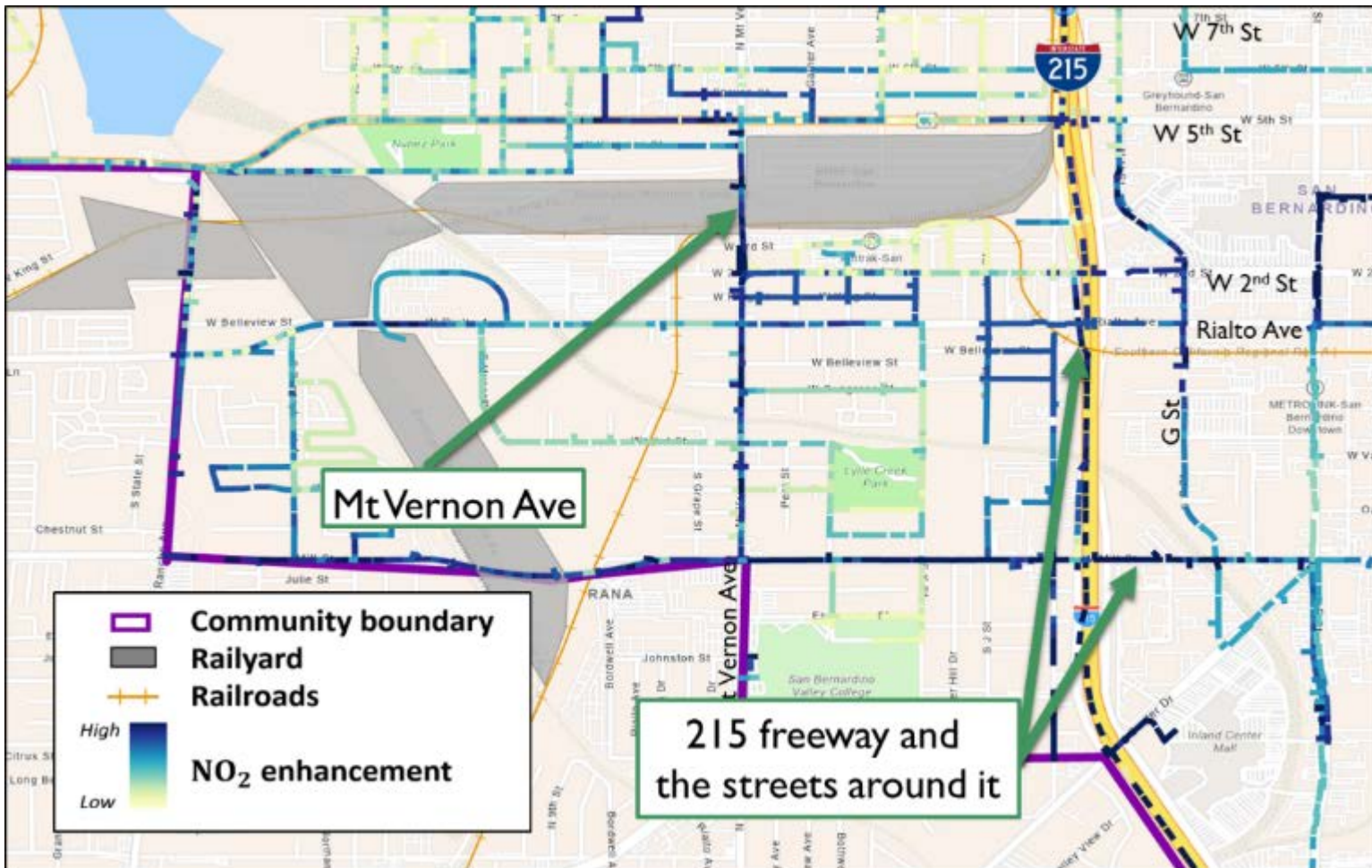
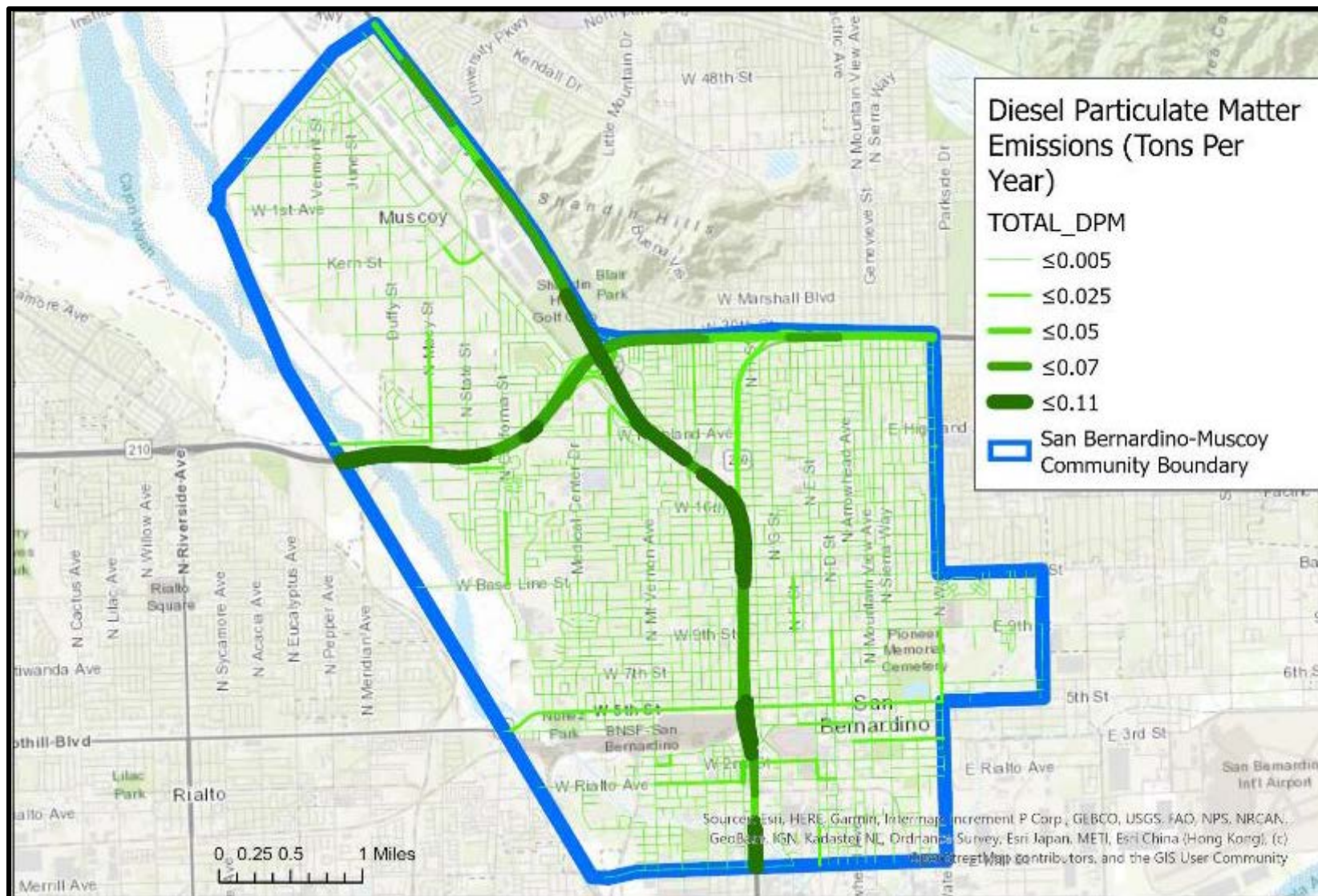


Figure 1a

Figure 2 – Diesel Particulate Matter (DPM) Emissions in San Bernardino, Muscoy*

- The map shows on-road emissions data developed using vehicle miles traveled and emissions by vehicle grouping.
- DPM emissions are considered a toxic air contaminant (TAC) and contribute to 2/3 of the cancer risk in the basin.
- Based on the map below, DPM emissions are shown to be higher near freeways and major intersections.



*Source: CARB on-road emissions estimations

Figure 3 – City of San Bernardino Truck Restrictions Map*

- The map below shows roadways where truck travel is currently restricted:
 - Figure 3a shows portions of N I St. and W 24th St., W 25th St., and W 26th St.
 - Figure 3b shows portions of Meridian Ave. and Poplar St. on the left and portions of N. Mt. Vernon Ave., Kingman St., Cabrera Ave., and Tia Juana St N on the right.

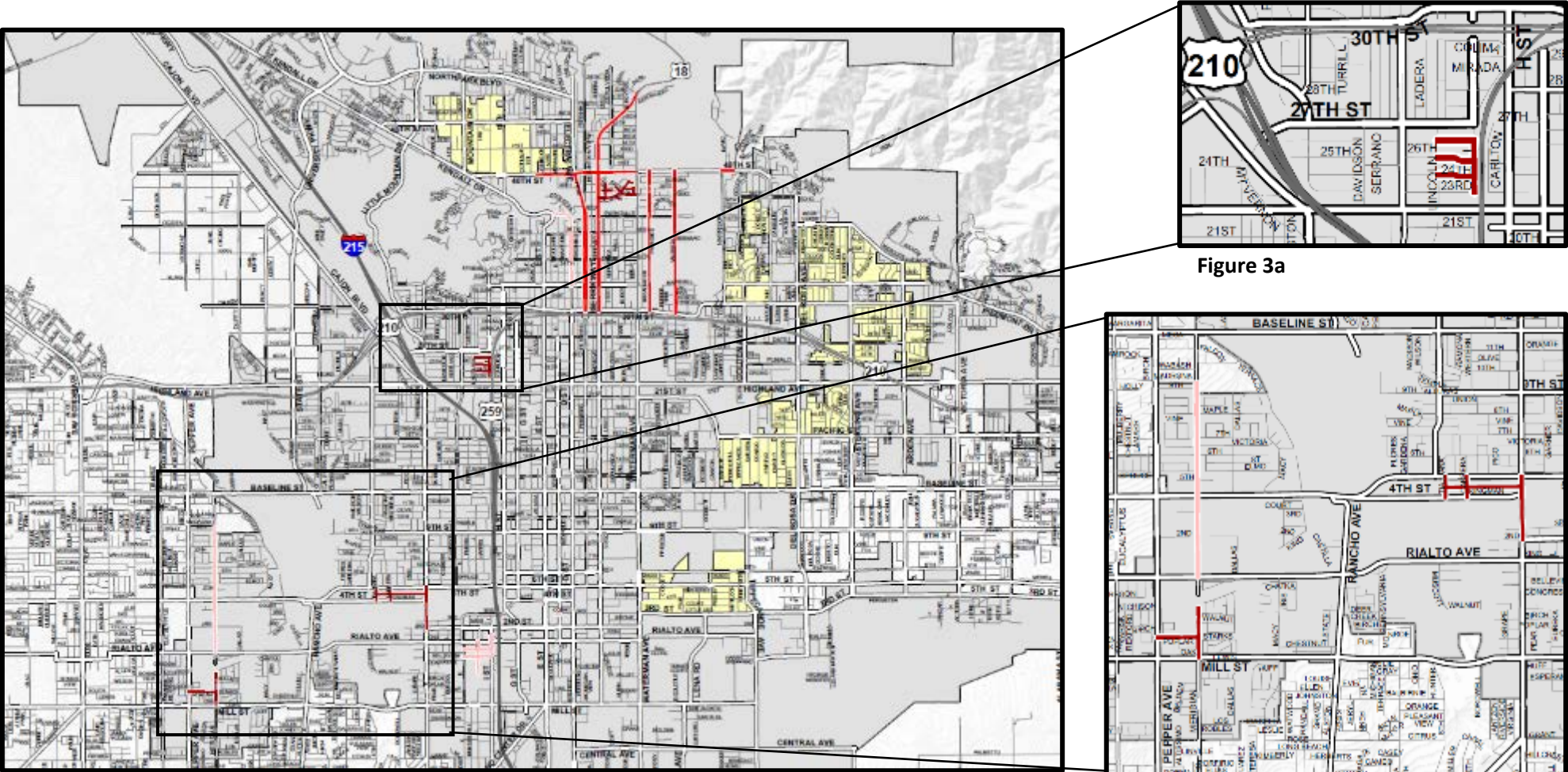


Figure 3a

Figure 3b

*Source: City of San Bernardino Public Works Department – Traffic Engineering Division