Name _____

Phone Number_____

Email_____

Automated License Plate Reader (ALPR) Locations Worksheet

(Chapter 5b: Neighborhood and Freeway Traffic from Trucks and Automobiles, 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 East Los Angles, Boyle Heights, West Commerce?

ALPR data, when cross-referenced with DMV data, can provide information about vehicles (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 vehicle 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 truck with newer cleaner models.

What is the Purpose of this Worksheet?

The purpose of this worksheet is to prioritize locations for ALPR in the East Los Angeles, Boyle Heights, West Commerce community.

Worksheet Instructions

In the table below, please prioritize three (3) locations where you would like ALPR placed in the East Los Angeles, Boyle Heights, West Commerce 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**
Example: I-710 offramp onto Bandini Blvd. in Vernon	*Heavy truck traffic coming from highway onto street.*
Additional Comments:	

Figure 1 – Mobile Nitrogen Dioxide (NO_2) Measurements in East Los Angeles, Boyle Heights, West Commerce

- The NO_2 mobile air monitoring measurements shown below were conducted during the Summer and Fall 2019
- NO_2 is shown since it is a tracer of exhaust from heavy-duty trucks
- Based on mobile air monitoring, elevated NO_2 concentrations were detected near:
    - Intersection of Soto St. and the East LA Interchange in Boyle Heights
    - I-710 offramps onto Washington and Bandini Blvds in Commerce and Vernon

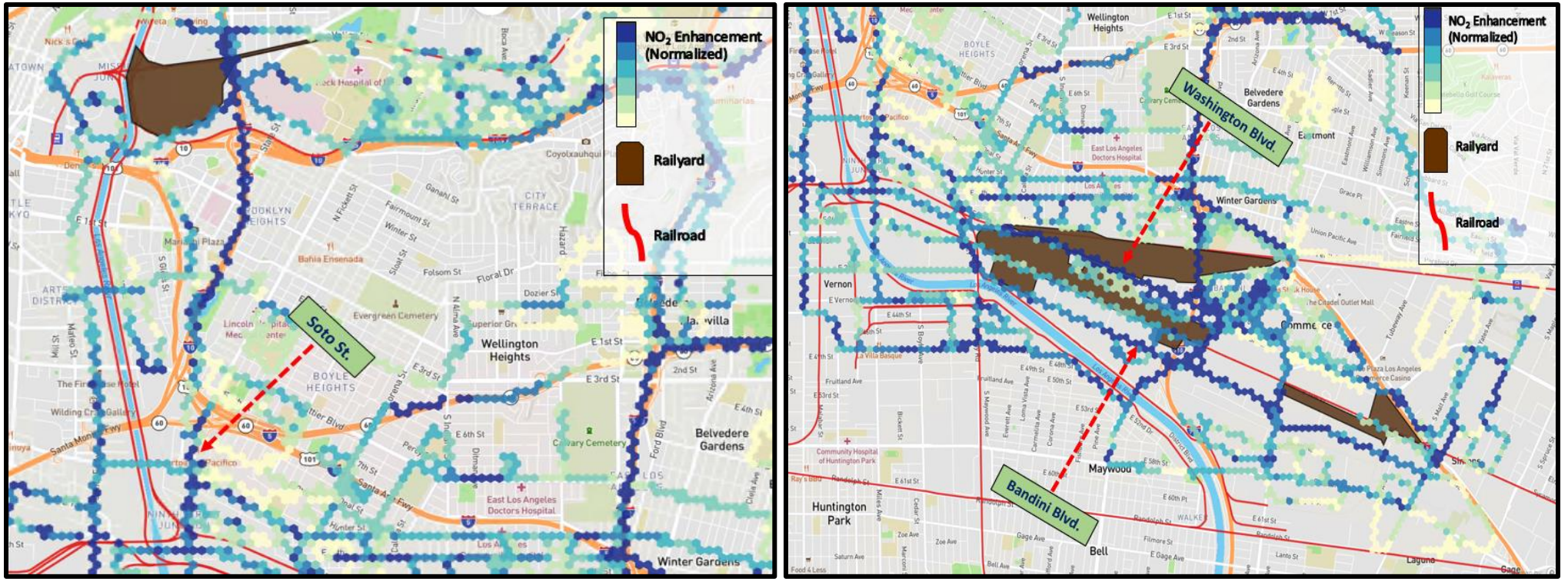

Figure 1: Mobile NO_2 Air Monitoring Measurements in Boyle Heights (left) and Commerce and Vernon (right)

Figure 2 – Mobile Nitrogen Dioxide (NO_2) Measurements in East Los Angeles, Boyle Heights, West Commerce

- Figure 2 shows the NO_2 mobile air monitoring measurements throughout ELABHWC

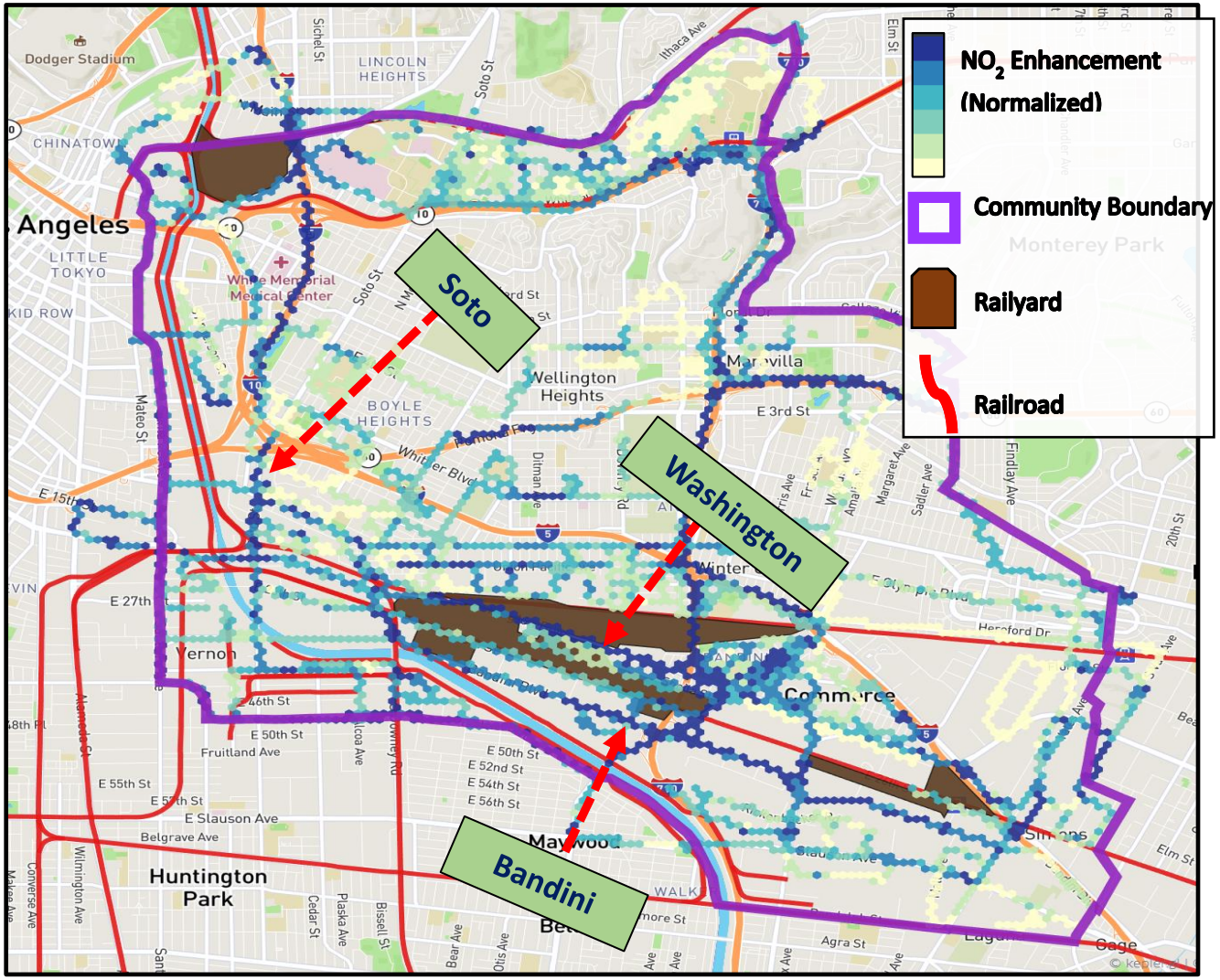

Figure 2: Mobile NO_2 Air Monitoring Measurements in ELABHWC

Figure 3 – Truck Routes in East Los Angeles, Boyle Heights, West Commerce

- Figure 3 shows truck routes throughout ELABHWC in green. Trucks are prohibited on streets in orange. Boundary of Emissions Study Area is shown in purple.
- Elevated NO_2 levels are associated with designated truck routes, such as Soto St. and Washington Blvd.

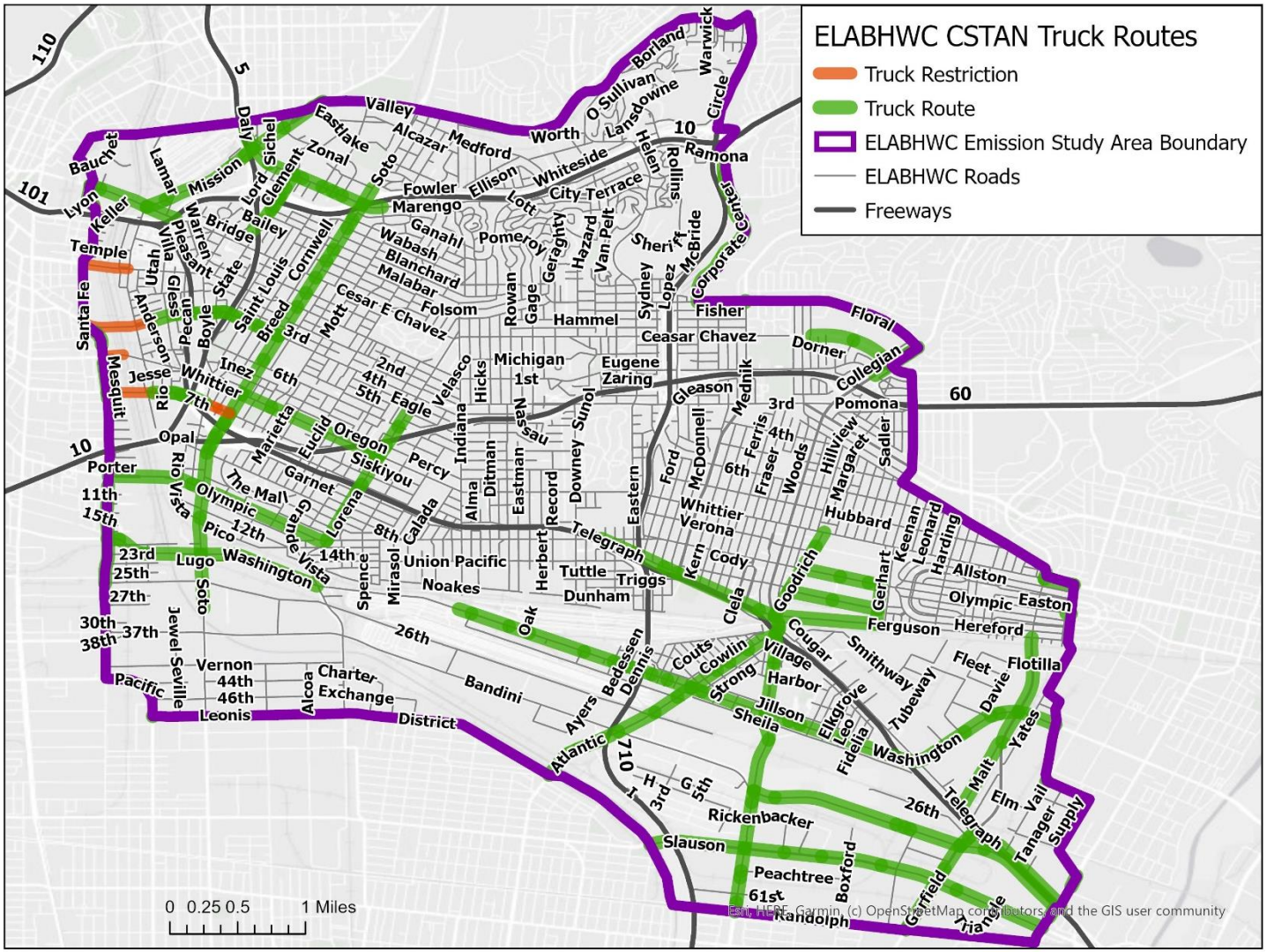

Figure 3: Designated Truck Routes in ELABHWC*

*More information available at: https://www.metro.net/projects/call_projects/cstan/

Figure 4 – Truck Traffic in East Los Angeles, Boyle Heights, West Commerce

- Figure 4 shows truck traffic throughout ELABHWC. Thicker lines correspond with increased truck traffic. Boundary of Emissions Study Area is shown in purple.
- Streets with higher levels of truck traffic are associated with elevated levels of NO_2 such as Bandini Blvd.

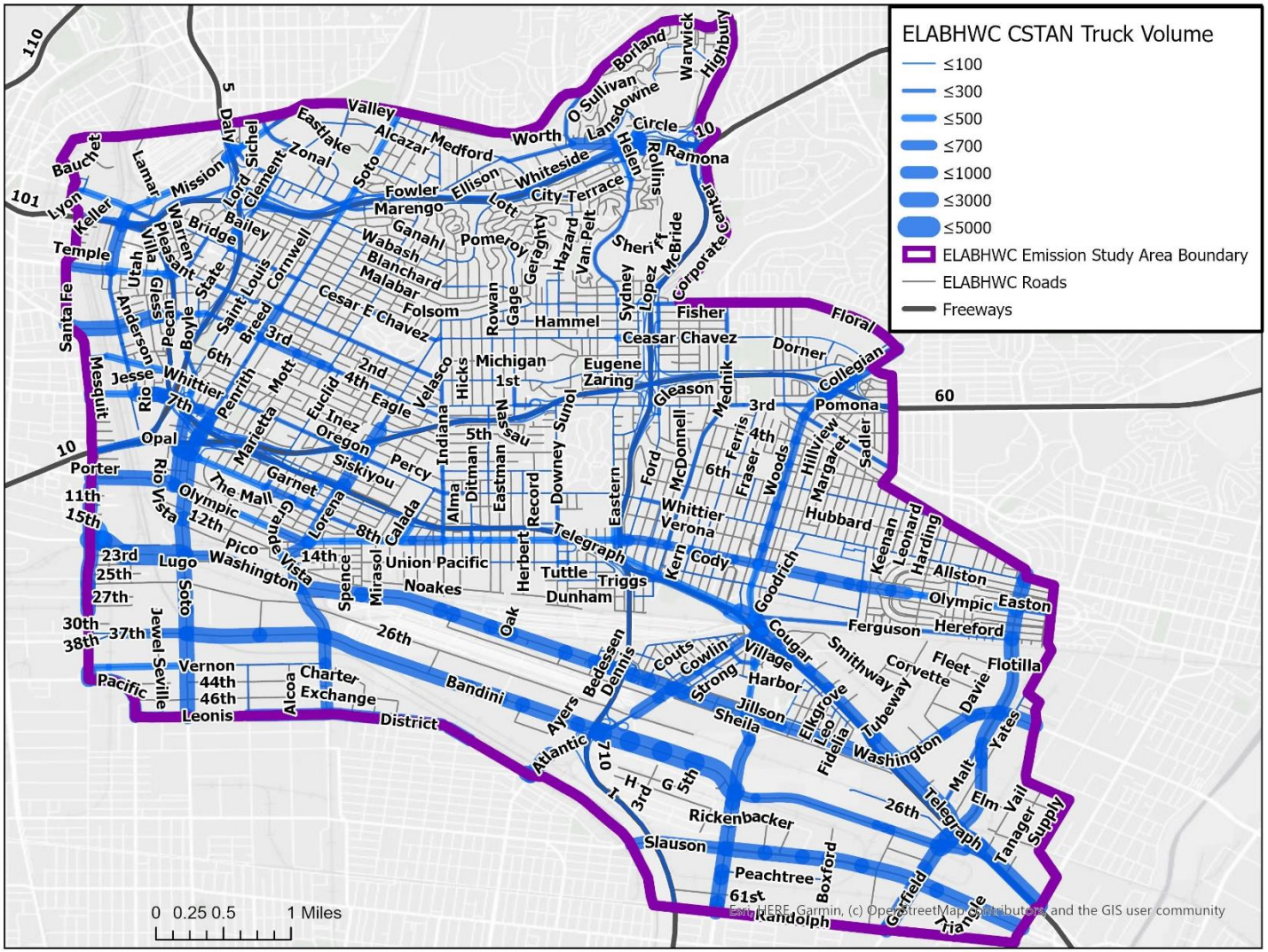

Figure 4: Truck traffic in ELABHWC*

*More information available at: https://www.metro.net/projects/call_projects/cstan/