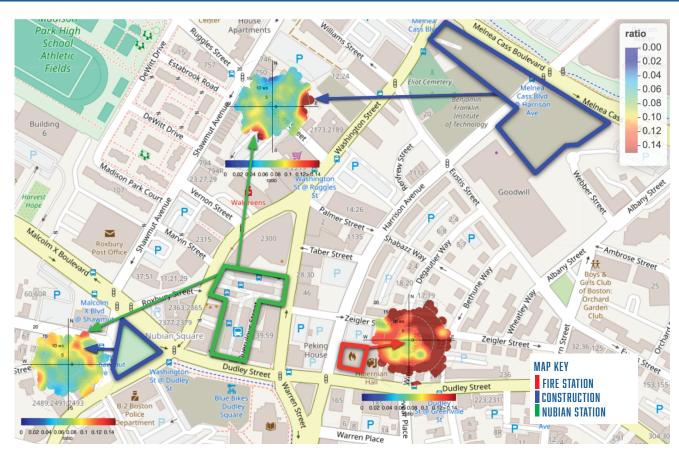
## CLEARING THE AIR ON NUBIAN STATION'S NO2 IMPACT

NO2 EMISSIONS FROM NUBIAN STATION AND LOCAL CONSTRUCTION

## WHERE DO GAS-PHASE POLLUTANTS COME FROM?



MAJOR SOURCES OF DIESEL POLLUTION INCLUDE NUBIAN STATION (GREEN), CONSTRUCTION SITES (BLUE), AND BOSTON FIRE DEPARTMENT ENGINE 14 (RED).

NUBIAN STATION IS SURROUNDED BY MAJOR ROADS, USED BY BOTH GAS VEHICLES LIKE CARS AND DIESEL VEHICLES LIKE BUSES AND CONSTRUCTION EQUIPMENT.

DIESEL COMBUSTION EMITS MORE NITROGEN OXIDES (NO<sub>x</sub>) THAN GAS COMBUSTION, SO BY ANALYZING THE RATIO OF NO<sub>x</sub> TO CARBON MONOXIDE (CO), WE CAN MAKE INFERENCES ABOUT WHAT PROPORTION OF POLLUTION IS FROM DIESEL COMBUSTION.

A HIGHER RATIO (INDICATED BY WARMER COLORS) SUGGESTS A HIGHER PROPORTION OF THAT POLLUTION COMES FROM DIESEL COMBUSTION.

THE ENVIRONMENTAL PROTECTION AGENCY (EPA)

**ANNUAL MEAN STANDARD FOR NO₂ (BLUE) IS 53** 

THE WORLD HEALTH ORGANIZATION (WHO) ANNUAL

MEAN AIR QUALITY GUIDELINE FOR NO₂ (GREEN) IS

OVER THIS ONE YEAR PERIOD FROM JULY 2022-2023.

NO2 LEVELS MET THE EPA STANDARDS BUT FAILED TO

MEET WHO AIR QUALITY GUIDELINES.

PARTS PER BILLION (PPB).

5.14 PPR.

## HEALTH IMPACTS OF NO2

## WEEKLY NO2 EMISSIONS NEAR NUBIAN STATION



HEALTH EFFECTS OF NO2 EXPOSURE INCLUDE:

- INCREASED INFLAMMATION OF THE AIRWAYS

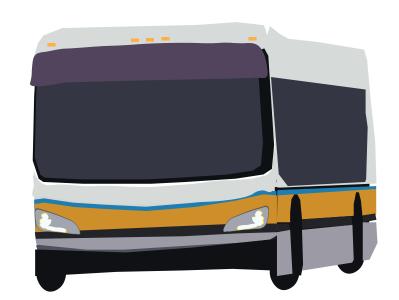
INFANTS, CHILDREN, AND PEOPLE WITH CHRONIC

RESPIRATORY DISEASE ARE AT HIGHEST RISK.

- REDUCED LUNG FUNCTION
- WORSENED COUGHING AND WHEEZING

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Sources: American Lung Association, US Environmental Protection Agency, World Health Organization