

Sampling the City (STC)

July 30th, 2022

1. Nitrogen Oxides (NO_x)
2. Volatile Organic Compounds (VOCs)
3. Particulate Matter (PM)



Saturday, July 30 at 8 AM

At Burnett Bayland Park
(6000 Chimney Rock rd.,
Houston 77081)

Ride Length: 6 mi

- Single-Family Residential
- Multi-Family Residential
- Commercial
- Office
- Public & Institutional
- Industrial
- Park & Open Spaces
- Transportation & Utility
- Undeveloped
- Agriculture Production
- Unknown

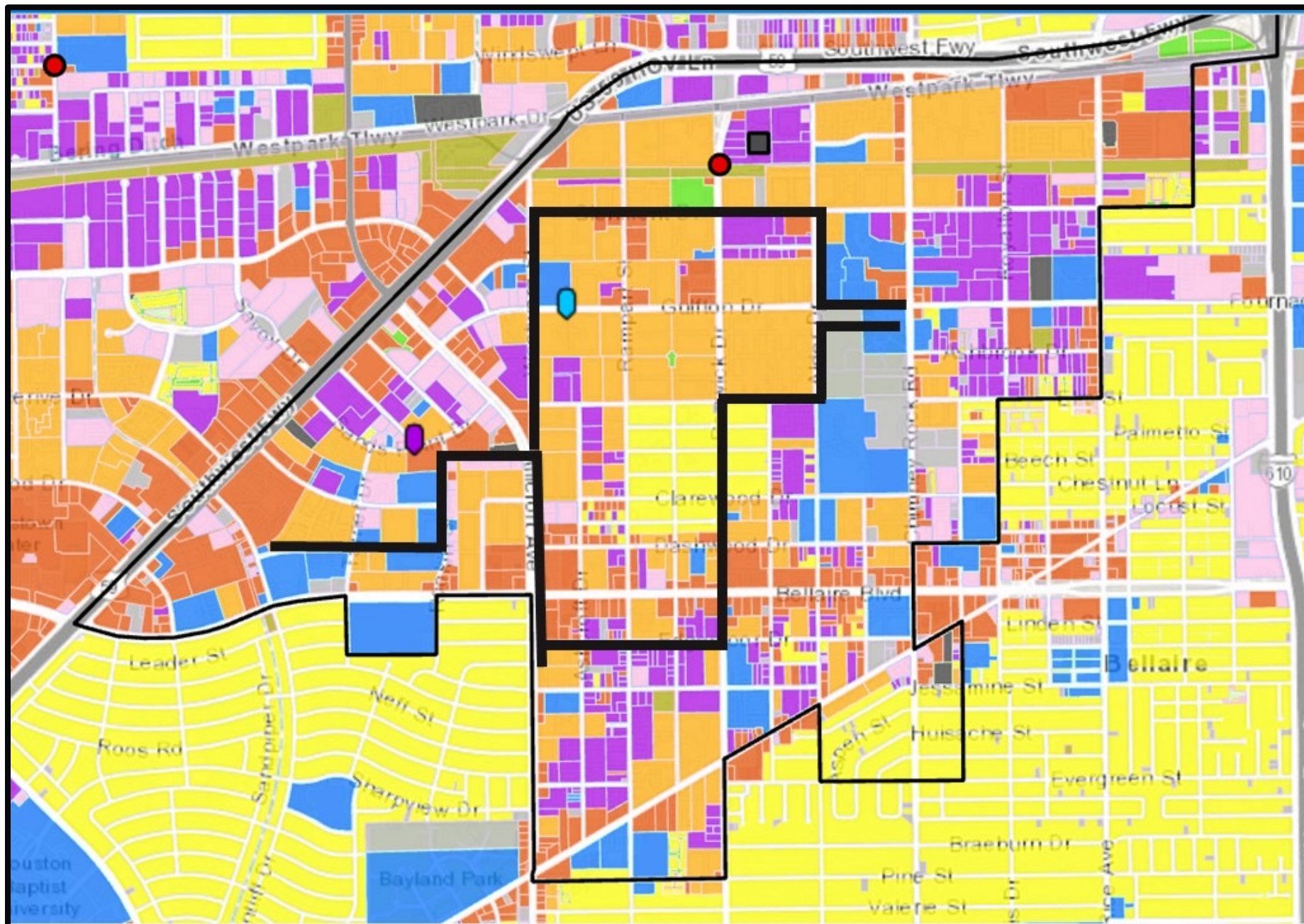
- Texas TRI Facilities, 2020
- Concrete Batch Plants 2021



APIS



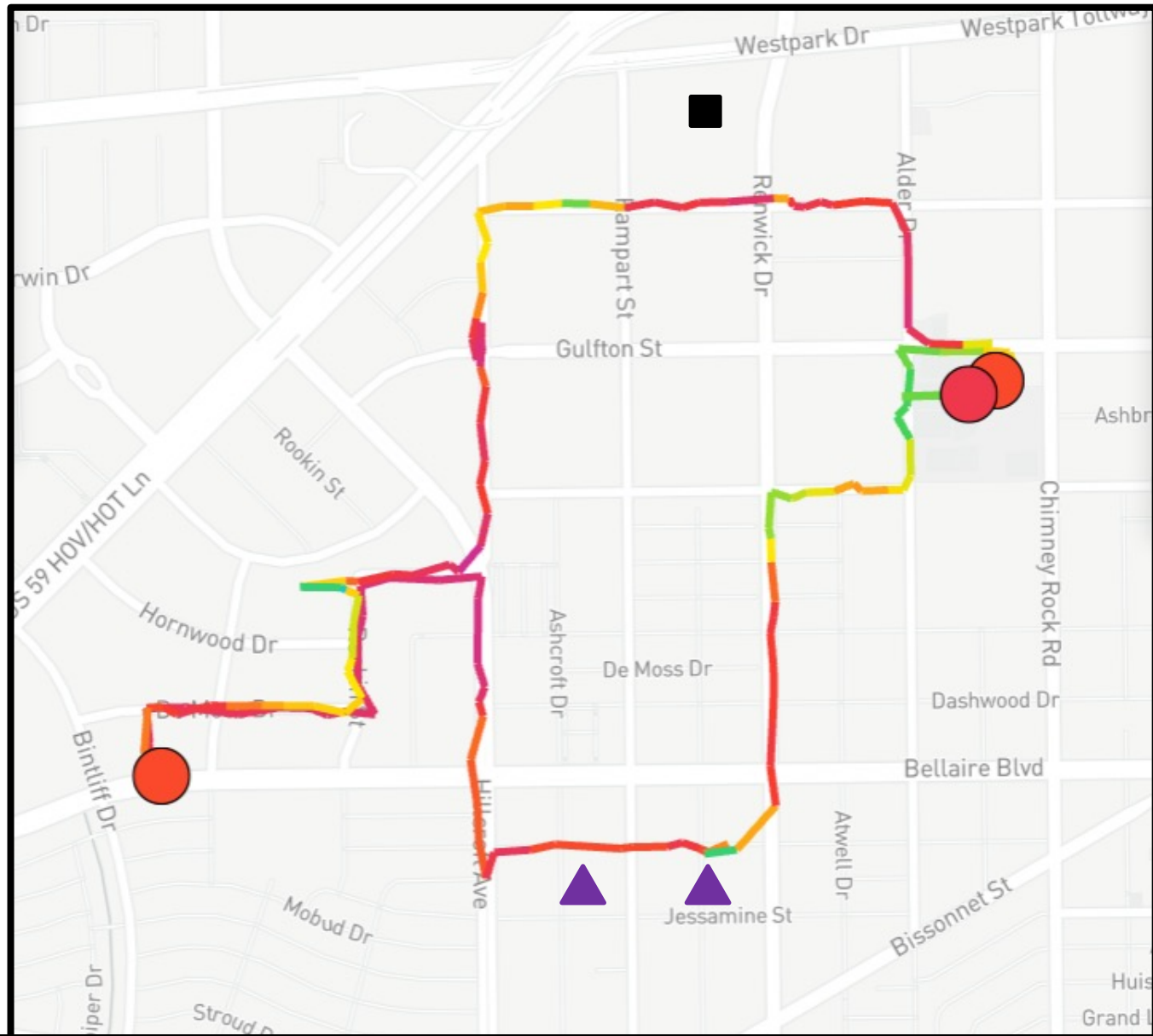
Purple Air



Overall AQI

Quick takeaways:

- High levels at concrete batch plant in the north
- High levels when passing by the west side
- Metal shops at the south side

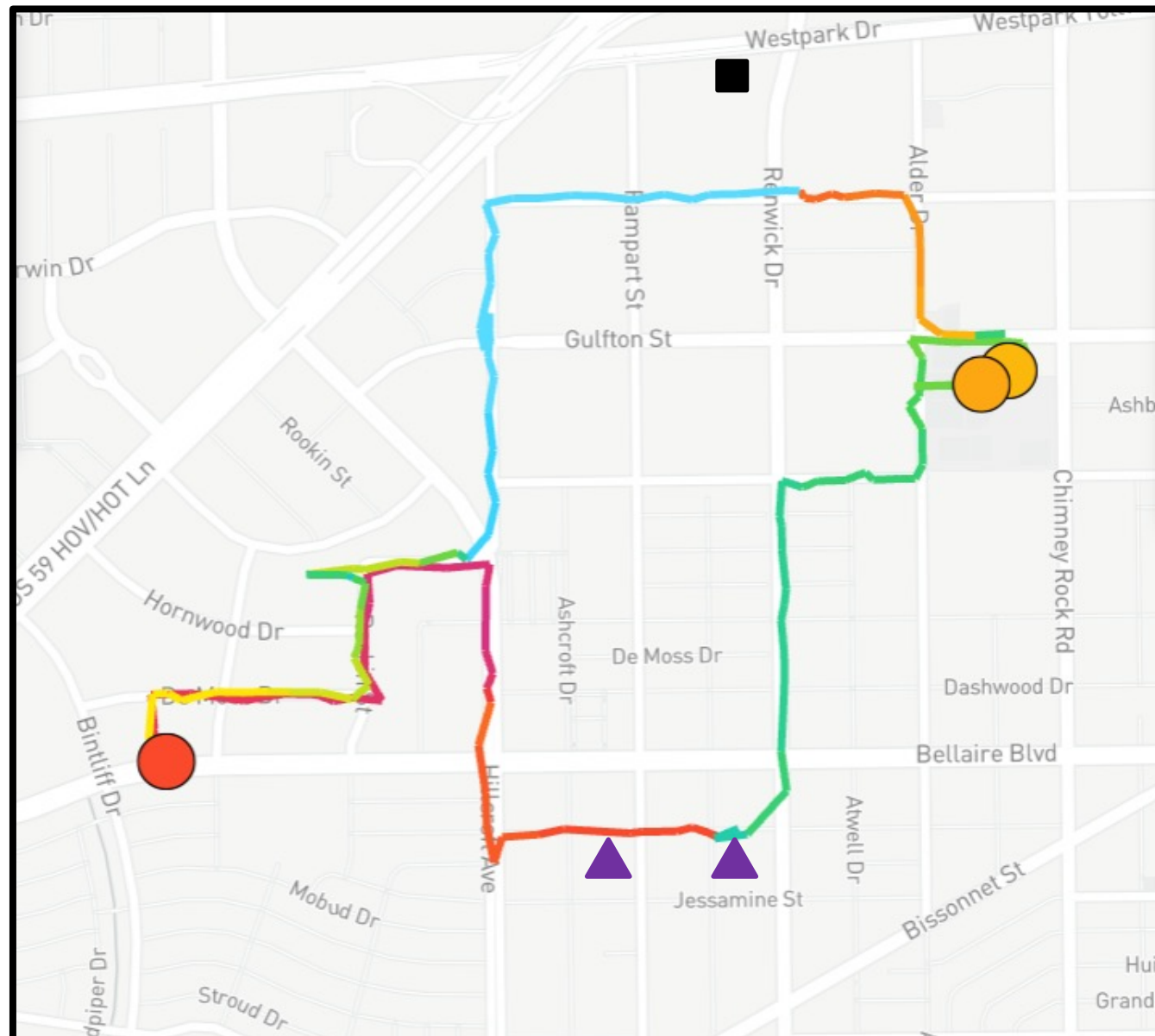


NO₂

- Highest levels recorded on the west side
- Moderate levels near metal shops on south side
- Average: 40 ppb
- Peak: 481 ppb

EPA Standards:

- 1 hour: 100 ppb
- Annual: 53 ppb

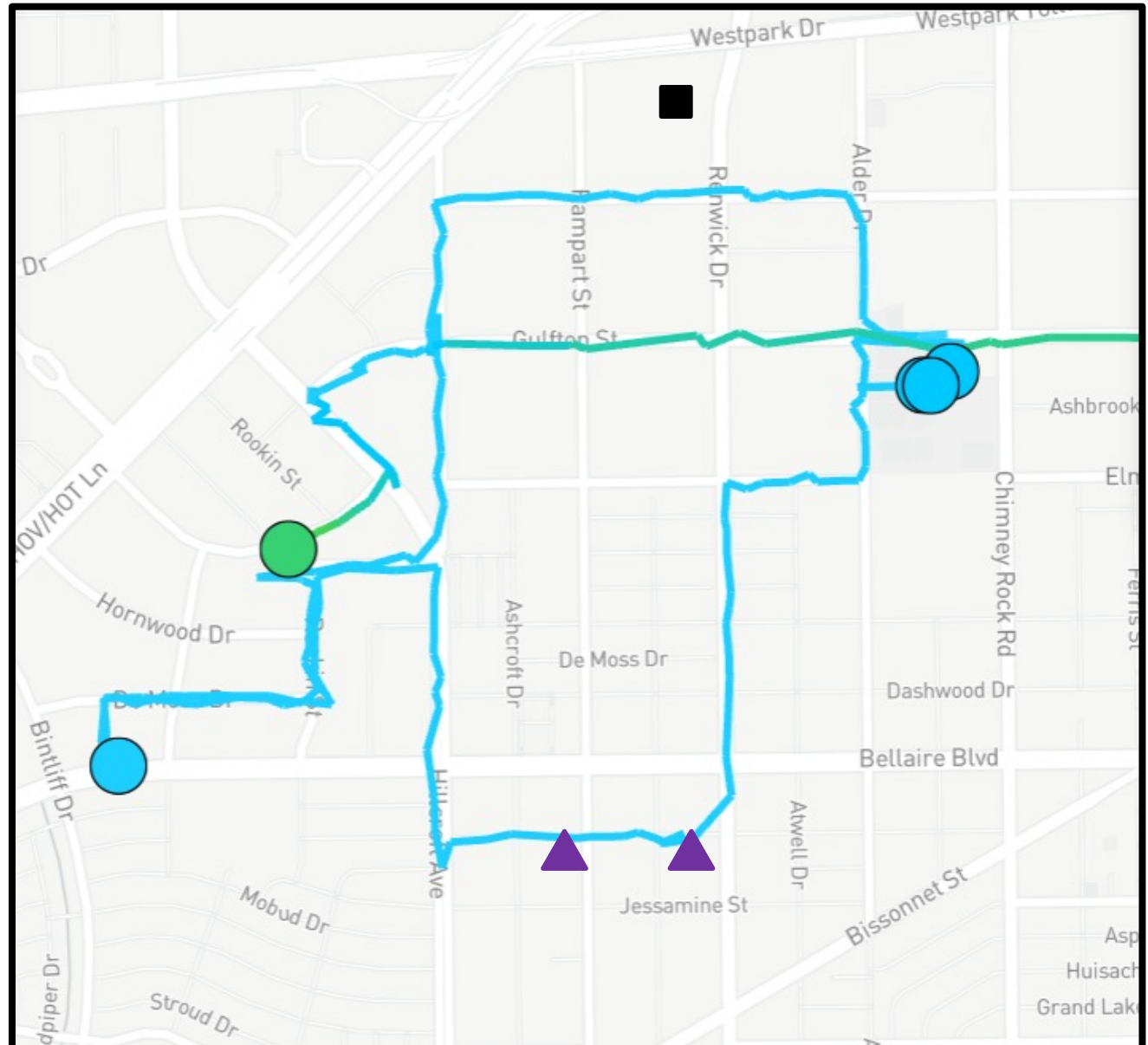


Plume Index



VOC

- Low levels measured throughout ride

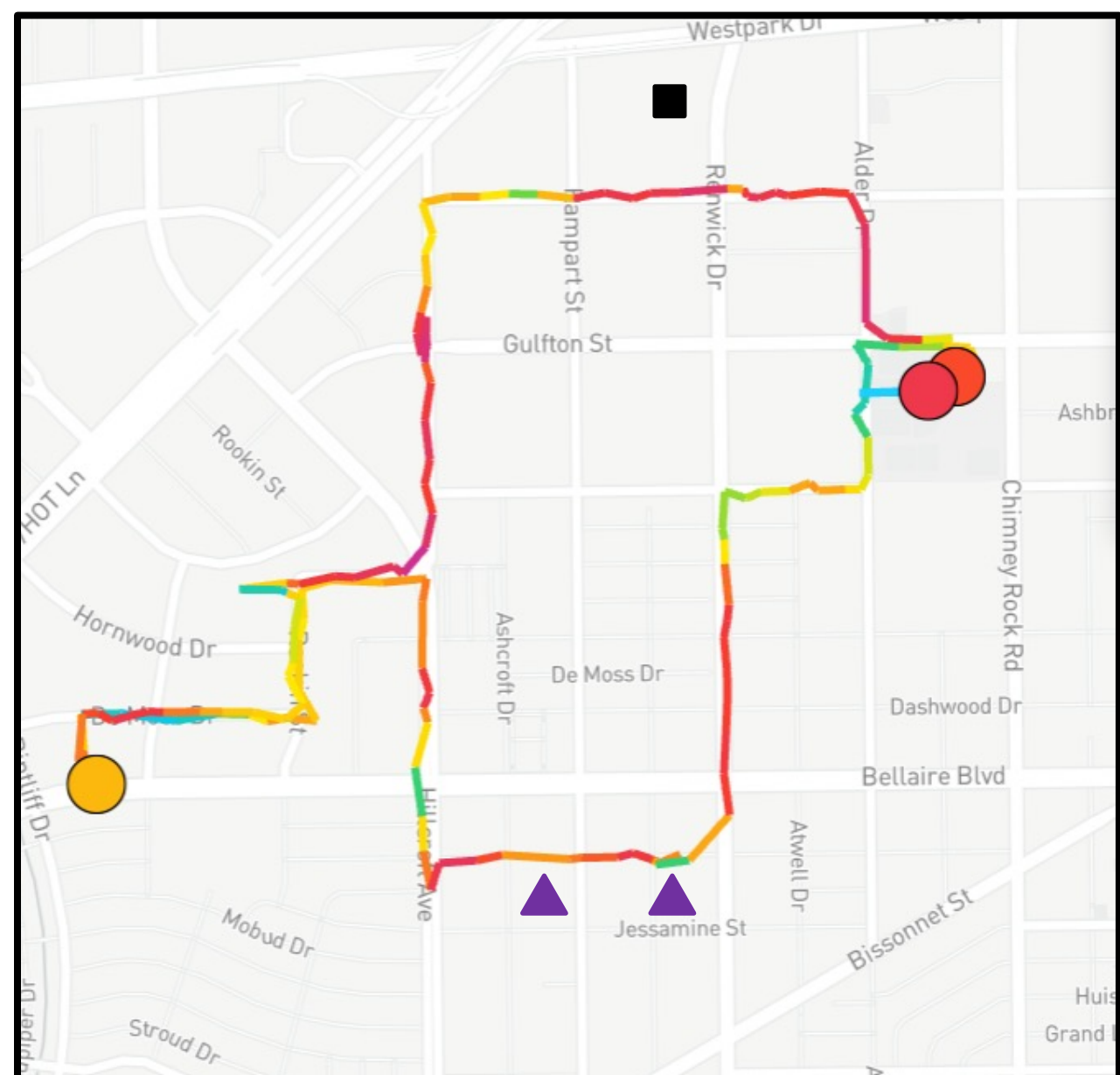


PM

- Highest at concrete batch plant and near west side
- Moderate near south side
- Average: 5 ug/m³
- Peak: 31 ug/m³

EPA Standards:

- 24 hour: 35 ug/m³
- Annual: 12 ug/m³



Plume Index



FLOW

July 30, 2022

	NO2	VOC	PM
Average	40 ppb	108 ppb	5 ug/m3
Peak	481 ppb	413 ppb	31 ug/m3

C.A.M.P.

April – August 2022

	NO2	VOC	PM	O3
Average	5 ppb	141	8.9 ug/m3	15.8 ppb
Peak	50 ppb	333	85 ug/m3	165.2 ppb