



City of Dallas

Dallas Community Air Management Program (D-CAMP) Update

**Parks, Trails & Environment
Committee
September 5, 2023**

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Air Sensor Status



Sensors Deployed to Field & In Prep.



- We have a total of 24 sensors
- Five sensors deployed beginning in February
- Locations include:
 - ✓ West Dallas Multipurpose Center
 - ✓ Fish Trap Lake Park
 - ✓ Larry Johnson Recreation Center
 - ✓ Mill Creek Batch Plant
 - ✓ South Central Park (Joppa)
- Three sensors ready for deployment pending landowner permission
- Eight new sensors at Hinton for co-location
 - ✓ Four are set up for ozone, nitrogen dioxide, particulates and sulfur dioxide
 - ✓ Four are set up ozone, nitrogen dioxide, particulates, carbon monoxide, and total volatile organic compounds
- Eight more ready for co-location as soon as the group now at Hinton have completed the co-location process



Sensors Information



- Seven of the eight at Hinton should be ready for deployment soon
- Data from the reference monitors has been compiled and forwarded to AQMesh so they can calculate correction factors
- Once we have correction factors, we will prepare that group for deployment and put out eight more



Sensor Dashboard



- Data Analytics has completed the online dashboard
- This dashboard is set up for the five units in the field now
- You can access the dashboard here:
<https://experience.arcgis.com/experience/3a7658ea674a4ae6b586001eaebd8462>
- Please provide your comments and feedback to us if you see something needs to be changed or improved



City of Dallas Air Quality Monitoring

4-Point Hourly Monitoring, a collaboration between DBI and OEQS

Select a station
Larry Johnson Recreation...

16.1

All Stations Average PM10 in $\mu\text{g}/\text{m}^3$

An increase of 0.9 $\mu\text{g}/\text{m}^3$

6.4

All Stations Average PM2.5 in $\mu\text{g}/\text{m}^3$

An increase of 0.3 $\mu\text{g}/\text{m}^3$

51.8

All Stations Average NO2 in ppb

A decrease of 5.7 ppb

26.9

All Stations Average O3 in ppb

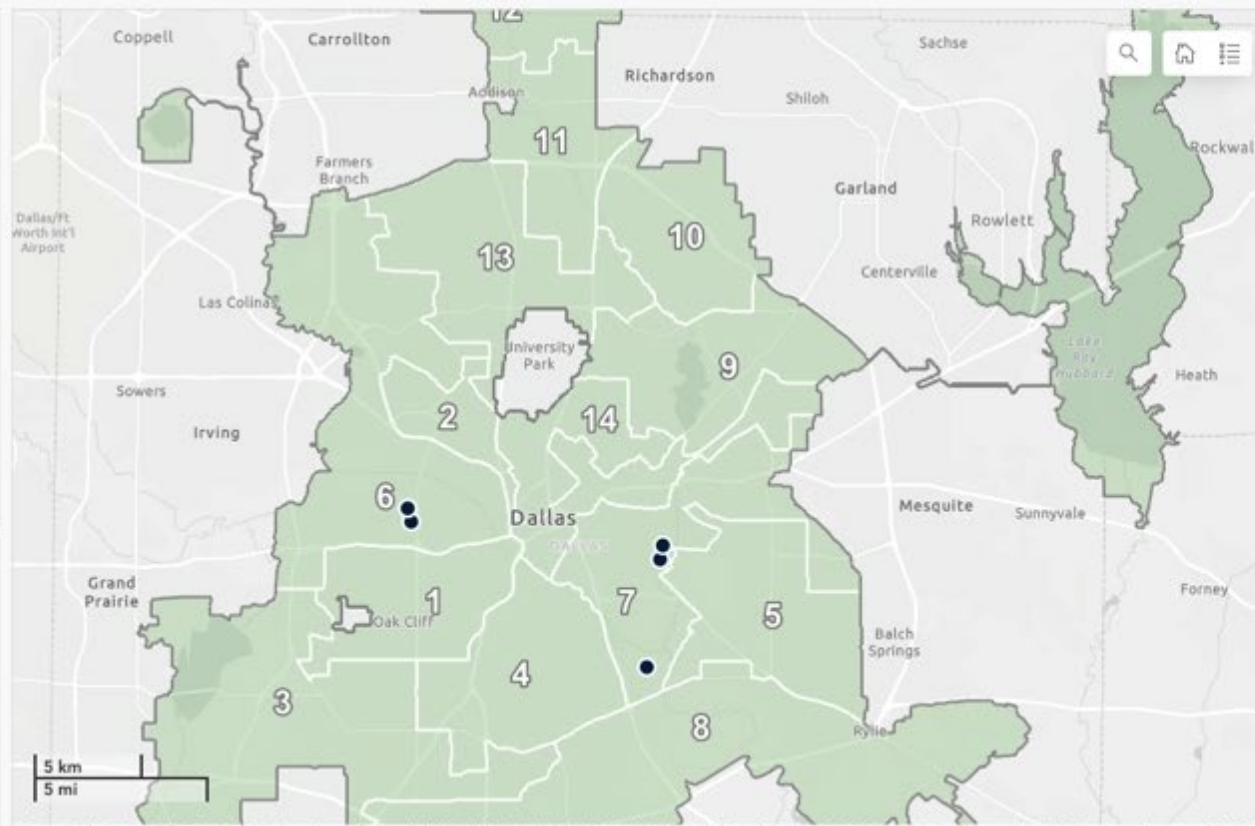
An increase of 0.5 ppb

op number cards for all stations averages are calculated across the previous 24 hours. Increases and decreases are in comparison to 24 hours prior. The 24-hour, 1-hour, and 1-hour rolling averages are calculated every hour. The gauge range thresholds: Low, Medium and High were provided by OEQS and may vary from other organizations threshold standards. This dashboard was created by the Office of Data Analytics and Business Intelligence. Data Source: Office of Environmental Quality & Sustainability

For further questions about the air quality monitoring program please contact the Office of Environmental Quality and Sustainability.

Disclaimer: (1) The data presented on this dashboard are not validated or verified, (2) The data do not come from regulatory monitors, (3) this data cannot be used to infer violations of the National Ambient Air Quality Standards (NAAQS) or other regulatory violations. This data should be used with discretion.

Link To Air Quality Data: [Air Monitor Station Raw Data](#), [Air Monitoring Station Hourly Readings](#)



Air Monitoring Station:
Larry Johnson Recreation Center



PM10
24-hour rolling average



PM2.5
24-hour rolling average

No data

NO2
1-hour rolling average



O3
8-hour rolling average

Low

Medium

High





Path Forward



Sensor Data Report



- Sensor data for March through May are online at <https://www.dallasclimateaction.com/dallas-community-air-management-program>
- We are working on a report for June through August, but not finished at this time
- In addition to updating the information in the first report, we want to add tables and graphs that compare neighborhood data with reference monitors

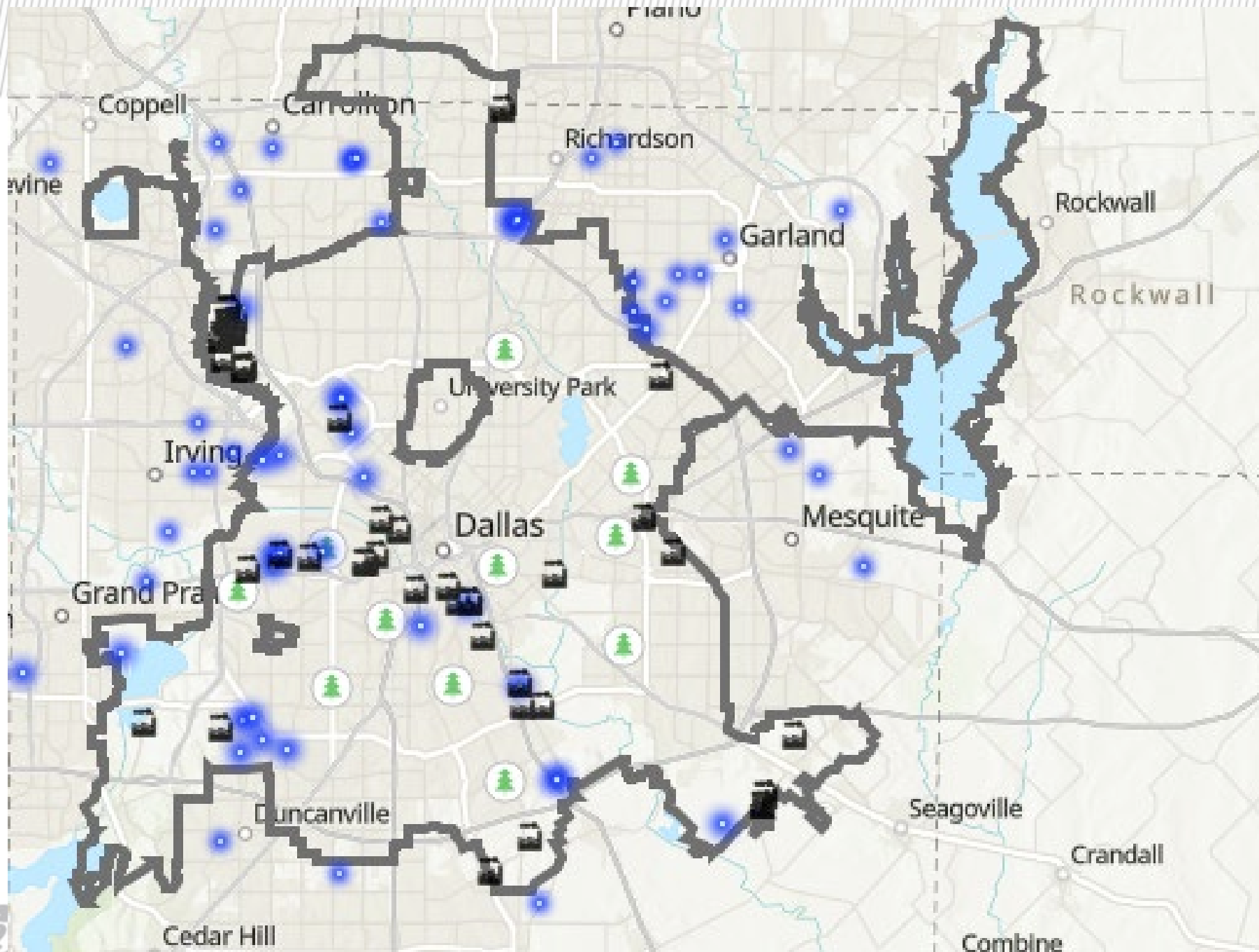


State EJ Grant West Dallas



- Administrative hurdles are nearly cleared
- We have been in contact with Texas A&M Transportation Institute (TTI) and are working to finalize the sites for their sensors
- TTI will purchase five Aeroqual AQY-R sensors similar to those used in Breathe Easy Dallas
- Their five sensors will be placed in West Dallas in addition to the two we already have there
- The two sensors we have in the area will be upgraded to AQMesh units with SO₂ sensors when they become available





- Major Sources
- Batch Plants
- Parks

Operational Sites EJ Scores



EJ Scores of Operational Sites

S. No	Location	Avg. Environmental Score	Avg. Health Indicator Score	Overall EJ Score	Category
1	Mill Creek Batch Plant	94.2	90.5	92.35	High
2	Larry Johnson Recreation Center	93	90.5	91.75	
3	West Dallas Multipurpose Center	96	87.5	91.75	
4	Fish Trap Lake	95.6	86.5	91.05	
5	Dallas Zoo Parking Lot	94	84.5	89.25	
6	Joppa Momma Farms	80.2	76	78.1	Moderate
7	South Central Park (Joppa neighborhood)	80	76	78	
8	Floral Farms	80	76	78	

Impact Ranges of Sites

Legend	
High	>80
Moderate	70-80
Low	<70



EJ Scores of Proposed Sites



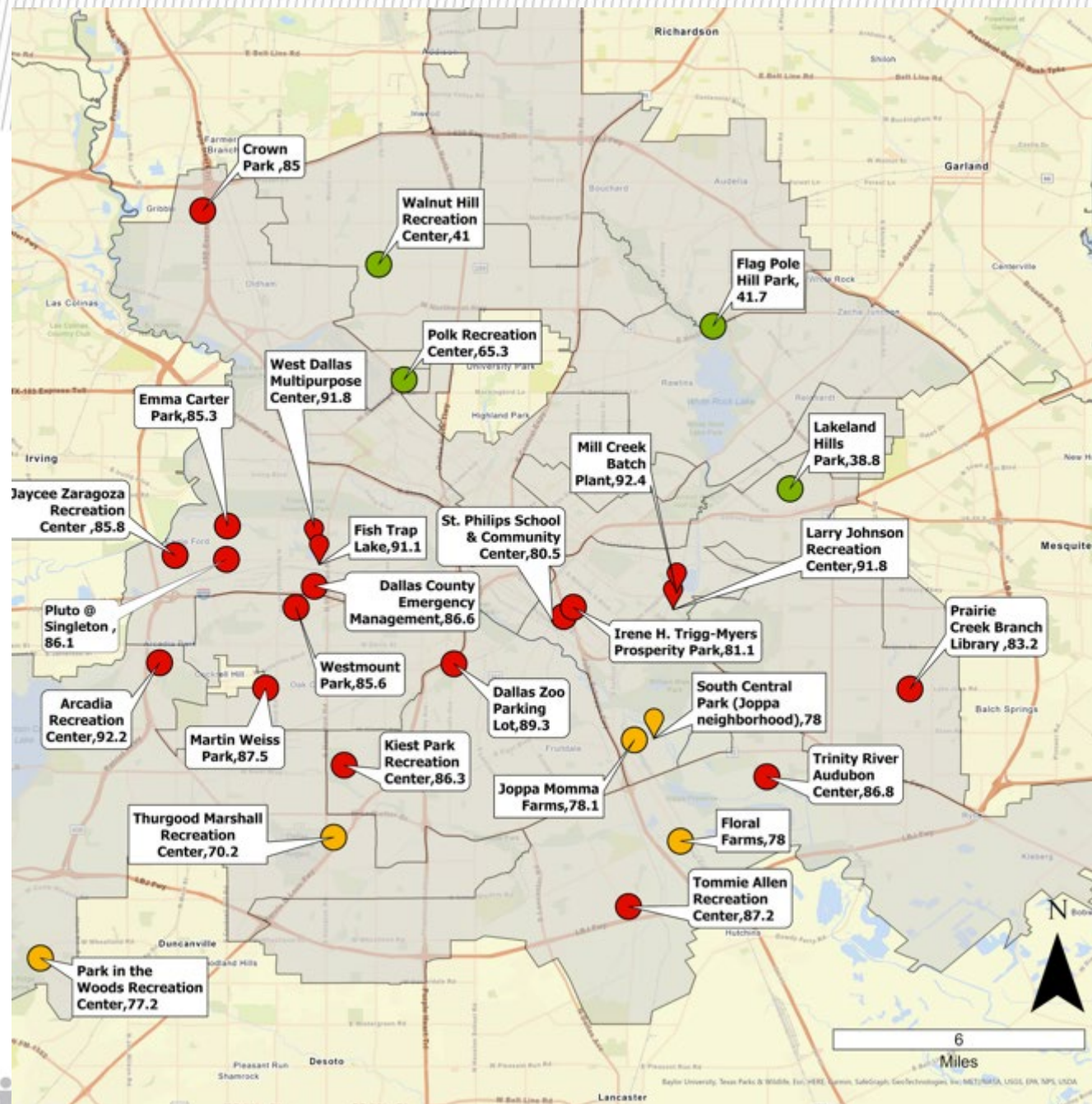
S. No	Location	Avg. Environmental Score	Avg. Health Indicator Score	Overall EJ Score	Category
1	Arcadia Recreation Center	96.8	87.5	92.2	High
2	Martin Weiss Park	92	83	87.5	
3	Tommie Allen Recreation Center	90.8	83.5	87.2	
4	Trinity River Audubon Center	89.6	84	86.8	
5	Dallas County Emergency Management	92.2	81	86.6	
6	Kiest Park Recreation Center	90.6	82	86.3	
7	Pluto @ Singleton	90.2	82	86.1	
8	Jaycee Zaragoza Recreation Center	91	80.5	85.8	
9	Westmount Park	91.2	80	85.6	
10	Emma Carter Park	89.6	81	85.3	
11	Crown Park	80.4	89.5	85.0	
12	Prairie Creek Branch Library	85.4	81	83.2	
13	Irene H. Trigg-Myers Prosperity Park	86.2	76	81.1	
14	St. Philips School & Community Center	86	75	80.5	
15	Park in the Woods Recreation Center	80.4	74	77.2	Moderate
16	Thurgood Marshall Recreation Center	76.8	63.5	70.15	
17	Polk Recreation Center	72	58.5	65.25	Low
18	Flag Pole Hill Park	42.8	40.5	41.65	
19	Walnut Hill Recreation Center	39	43	41	
20	Lakeland Hills Park	57	20.5	38.75	

EJ Scores of Proposed Sites

Impact Ranges of Sites

Legend	
High	>80
Moderate	70-80
Low	<70





Dallas Air Sensor Summit



- Bring together all parties that are using non-regulatory sensors or are interested in using non-regulatory sensors
 - ✓ Cities include Denton, Lewisville, & Plano & others
 - ✓ EPA Region 6, TCEQ, NCTCOG
 - ✓ The Nature Conservancy, Downwinders, Midlothian Breathe, West Dallas 1, Joppa, Dixon Circle, and others
 - ✓ Academic institutions, UTD, UNT, UTA, Texas A&M
- Featured speaker will be Andrea Clements from EPA Office of Research & Development in Research Triangle Park
- When: September 8th from 8:30AM to 12:30PM
- Where: City Hall Auditorium on L1





Questions and Comments

Kevin Overton

Maritza Figy

***With Special Thanks to
Christopher Morris***

Brittany Wells

***Without Them, We Would
Have Never Gotten This Far***



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