



Fisk & Crawford Former Power Plants





Background

Activity	Date
PERRO/LVEJO meeting	August 30
CLC letter outlining concerns	September 18
Concept proposed	October 10
Draft work plan	November 21
Community Fact Sheet	November 29
Monitoring conducted	December 3-6
Present results	February



Key Questions

- Are elevated levels of dust blowing into the surrounding community from the sites?
- Do people in communities surrounding the plants have higher levels of radiation exposure compared to communities not near the plants?



Work Plan Objectives

- Collect perimeter particulate readings (normal conditions)
- Collect perimeter particulate readings (abnormal conditions)
- Collect meteorological data (temp, wind speed/direction, pressure)
- Collect real-time gamma radiation screening readings with GPS
 - Surrounding neighborhoods & compare



Participants

U.S. EPA (Superfund, Brownfields, ARD, LCD)

Weston Solutions, Inc.

Illinois EPA

ATSDR/CDC

Illinois Department of Public Health

City of Chicago Bureau of Environmental Health & Safety Management

PERRO

LVEJO

Midwest Generation, LLC

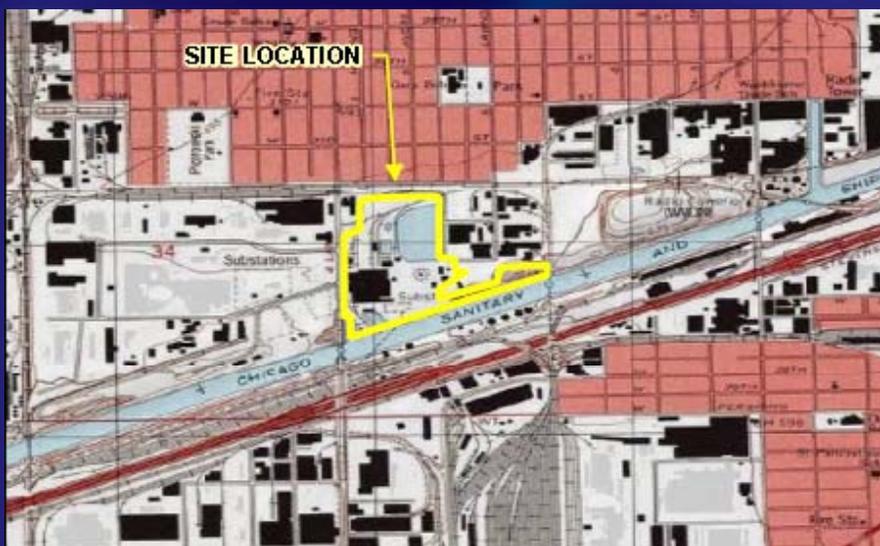


Crawford Property Boundary





Around Crawford





Around Crawford



Data Ram #3 - December 5th at 10:23am



Inside Crawford



Coal Pile Storage Area

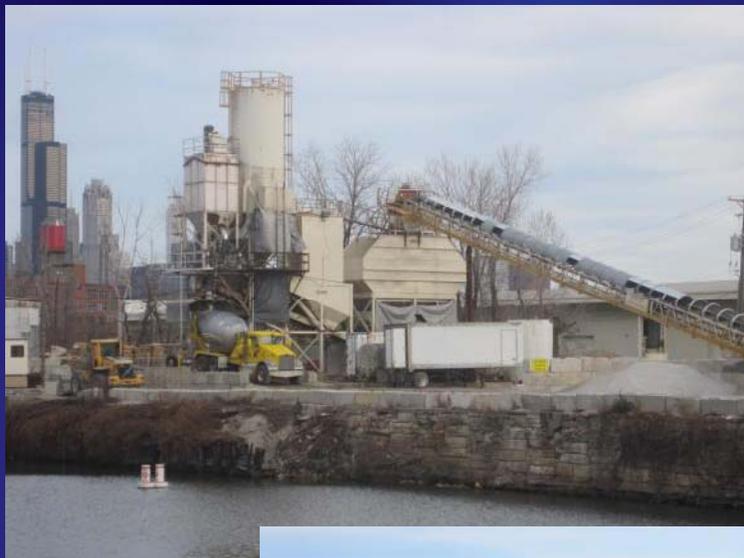


Fisk Property Boundary





Around Fisk





Stationary Particulate Data





Particulates

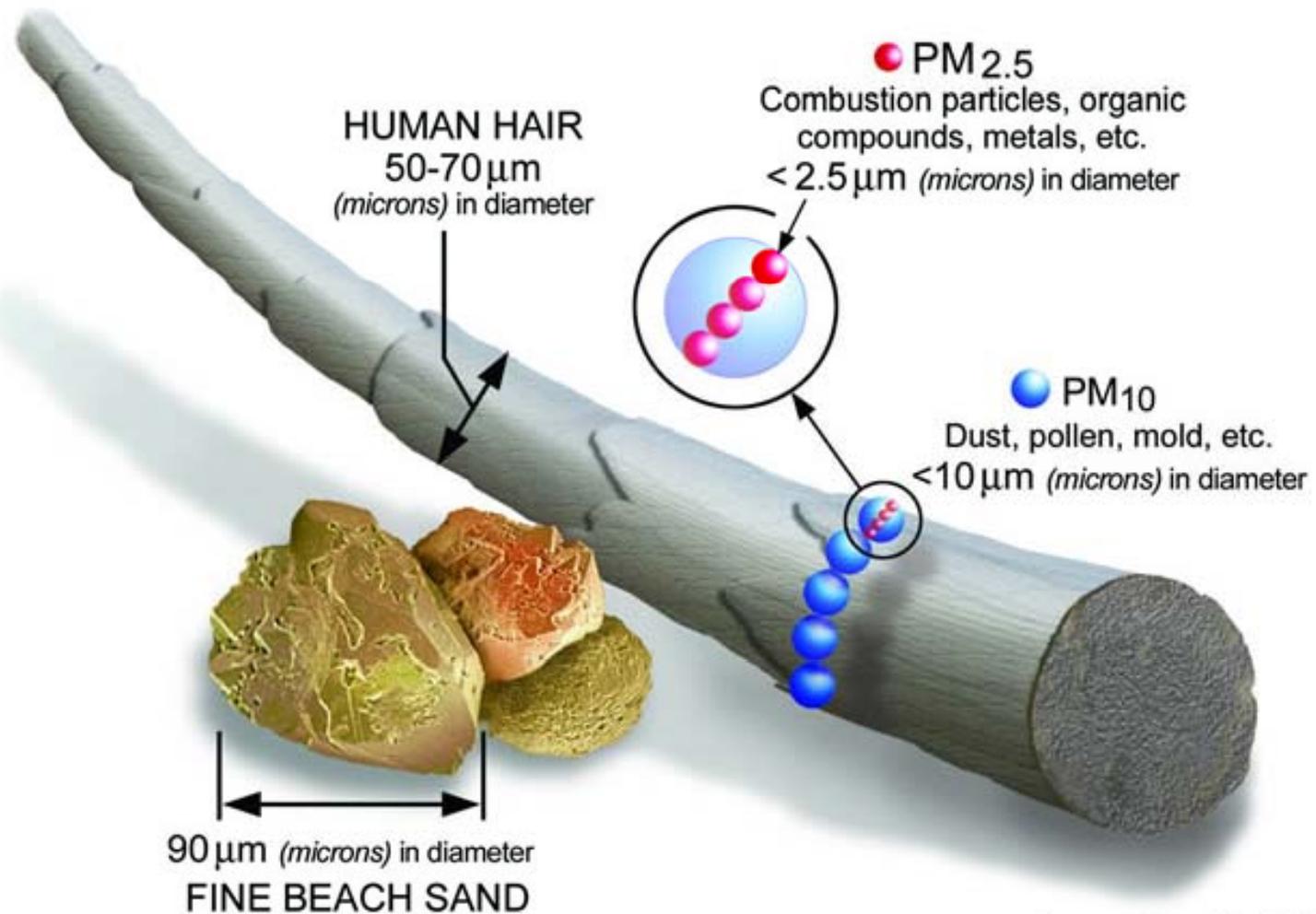


Image courtesy of the U.S. EPA



Stationary Data - Crawford

Date	Time	Weather Information ¹					Particulate TWA ($\mu\text{g}/\text{m}^3$)			
		Temperature (°F)	Barometer (inches)	Relative Humidity (%)	Originating Wind Direction	Wind Speed (mp h)	Location			
							Dataram 1	Dataram 2	Dataram 3	Dataram 4
December 3, 2012 ² DAY 1 Mist – AM Wind – PM Warm	10:00 a.m.	62.8	29.61	73	S	13	77.2	84.1	96.3	96.2
	11:00 a.m.	64.2	29.88	73	S	11	69.5	77.5	89.5	88.7
	12:00 p.m.	67.1	29.84	69	S	12	61.4	69.8	80.6	79.5
	1:00 p.m.	71.1	29.81	61	S	17	52.7	60.4	71.9	68.8
	2:00 p.m.	71.1	29.78	60	S	21	45.5	52.4	62.8	59.4
	3:00 p.m.	71.1	29.77	58	S	20	39.8	46.2	55.7	52.0
	4:00 p.m.	70.0	29.81	61	SSW	17	35.4	41.4	50.4	46.2
	5:00 p.m.	68.0	29.80	63	SSW	15	32.2	37.9	46.7	41.9
	6:00 p.m.	66.9	29.81	62	SSW	23	31.4	37.7	--	41.8
Average		68.0	29.79	64	SSW	17	49.5	56.4	69.2	63.8
December 5, 2012 ³ DAY 3 Clear Calm Cold	9:00 a.m.	36.4	29.70	39	NE	3	4.4	15.4	8.4	7.7
	10:00 a.m.	37.8	29.74	45	NNE	3	4.2	11.6	9.1	5.7
	11:00 a.m.	38.1	29.75	47	NNE	5	4.3	12.6	8.5	4.7
	12:00 p.m.	43.7	29.74	47	ENE	3	4.9	11.7	8.1	4.5
	1:00 p.m.	45.2	29.74	45	ESE	2	5.3	10.2	7.3	4.4
	2:00 p.m.	42.9	29.71	45	ENE	3	6.1	9.3	6.9	4.3
	3:00 p.m.	39.6	29.67	46	ENE	2	6.5	8.4	7.2	4.0
	4:00 p.m.	37.0	29.66	49	ENE	2	7.2	7.9	4.0	3.8
	5:00 p.m.	40.5	29.62	54	NE	0	7.2	7.6	4.5	4.0
Average		40.1	29.70	46	ENE	3	5.6	10.5	7.1	4.8



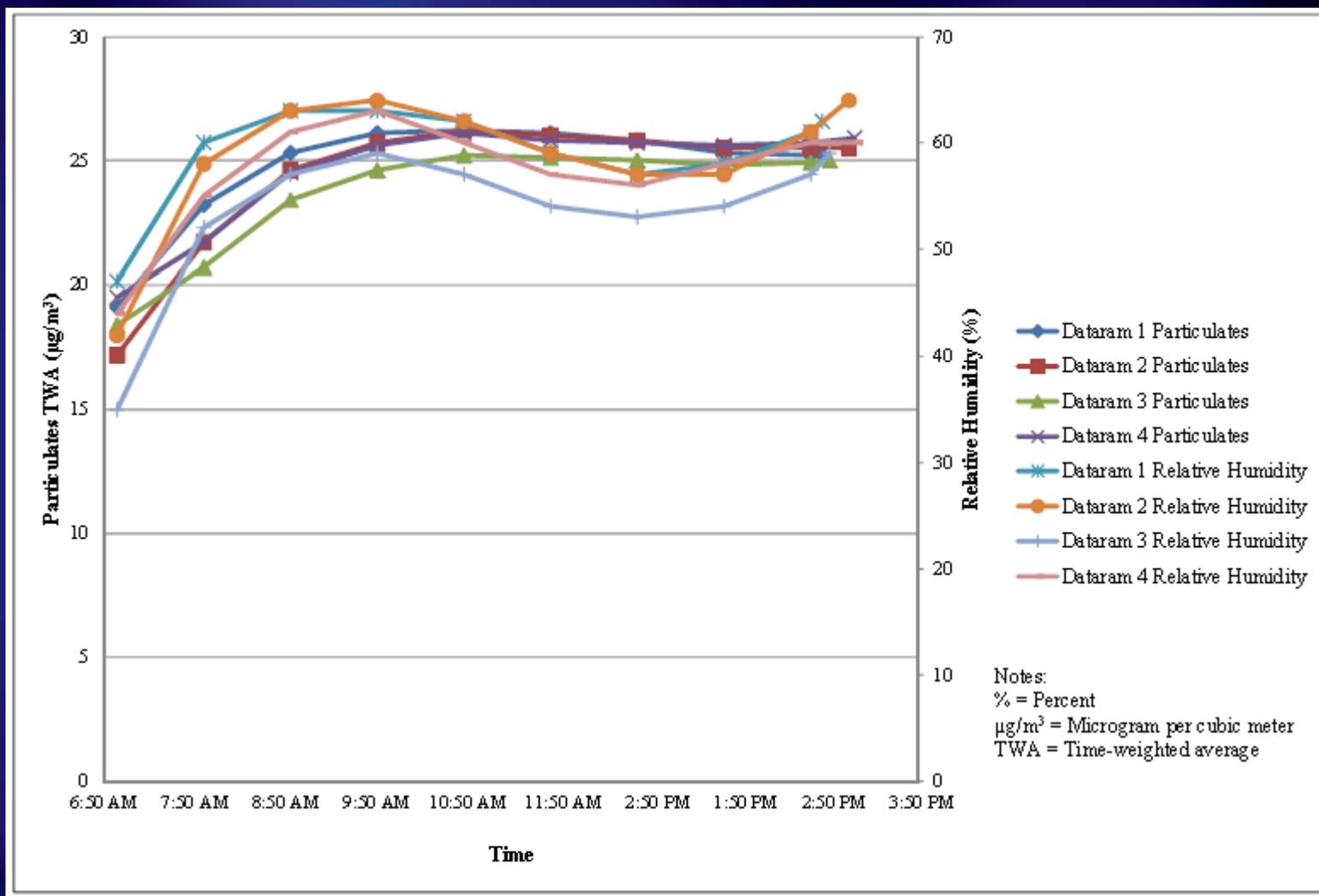
Stationary Data - Fisk

Date	Time	Weather Information ¹					Particulate TWA ($\mu\text{g}/\text{m}^3$)			
		Temperature (°F)	Barometer (inches)	Relative Humidity (%)	Originating Wind Direction	Wind Speed (mph)	Location			
							Dataram 1	Dataram 2	Dataram 3	Dataram 4
December 4, 2012 ² DAY 2 Sun Wind Warm Wind shift	9:00 a.m.	52.3	30.00	40	SSW	8	4.0	5.8	7.5	8.2
	10:00 a.m.	57.9	30.14	36	WSW	4	3.9	5.6	6.5	8.2
	11:00 a.m.	55.7	29.58	35	WSW	4	3.7	5.3	5.9	7.8
	12:00 p.m.	54.6	30.00	35	ESE	9	3.3	4.9	5.3	7.3
	1:00 p.m.	57.6	29.70	33	SW	6	3.0	4.8	5.0	7.0
	2:00 p.m.	58.4	30.69	33	SSW	6	2.9	4.9	5.0	6.8
	3:00 p.m.	57.8	29.77	34	WSW	7	2.8	4.8	4.8	6.8
	4:00 p.m.	55.9	29.80	38	SE	4	2.8	4.8	4.8	6.7
	5:00 p.m.	55.1	29.96	41	ESE	6	2.9	4.8	4.9	6.8
Average		56.1	29.96	36	WSW	6	3.3	5.1	5.5	7.3
December 6, 2012 ³ DAY 4 Calm Cold	7:00 a.m.	35.5	29.44	42	SSE	3	19.1	17.2	18.4	19.5
	8:00 a.m.	35.5	29.44	56	SSE	2	23.2	21.7	20.7	21.7
	9:00 a.m.	37.3	29.43	61	SSW	3	25.3	24.6	23.4	24.5
	10:00 a.m.	39.9	29.43	62	SSW	2	26.1	25.7	24.6	25.6
	11:00 a.m.	42.8	29.37	60	SSW	3	26.2	26.2	25.2	26.1
	12:00 p.m.	45.0	29.36	57	SSW	3	26.1	26.0	25.1	25.8
	1:00 p.m.	45.6	29.31	56	SSW	3	25.8	25.8	25.0	25.7
	2:00 p.m.	45.7	29.26	57	SSW	3	25.3	25.5	24.8	25.6
	3:00 p.m.	45.6	29.26	60	SSE	3	25.2	25.5	24.9	25.7
	4:00 p.m.	44.9	29.26	61	SSE	3	25.2	25.5	25.0	25.9
Average		41.8	29.36	57	SSW	3	24.8	24.4	23.7	24.6

All data points at <https://r5imt.net/pilsen/>

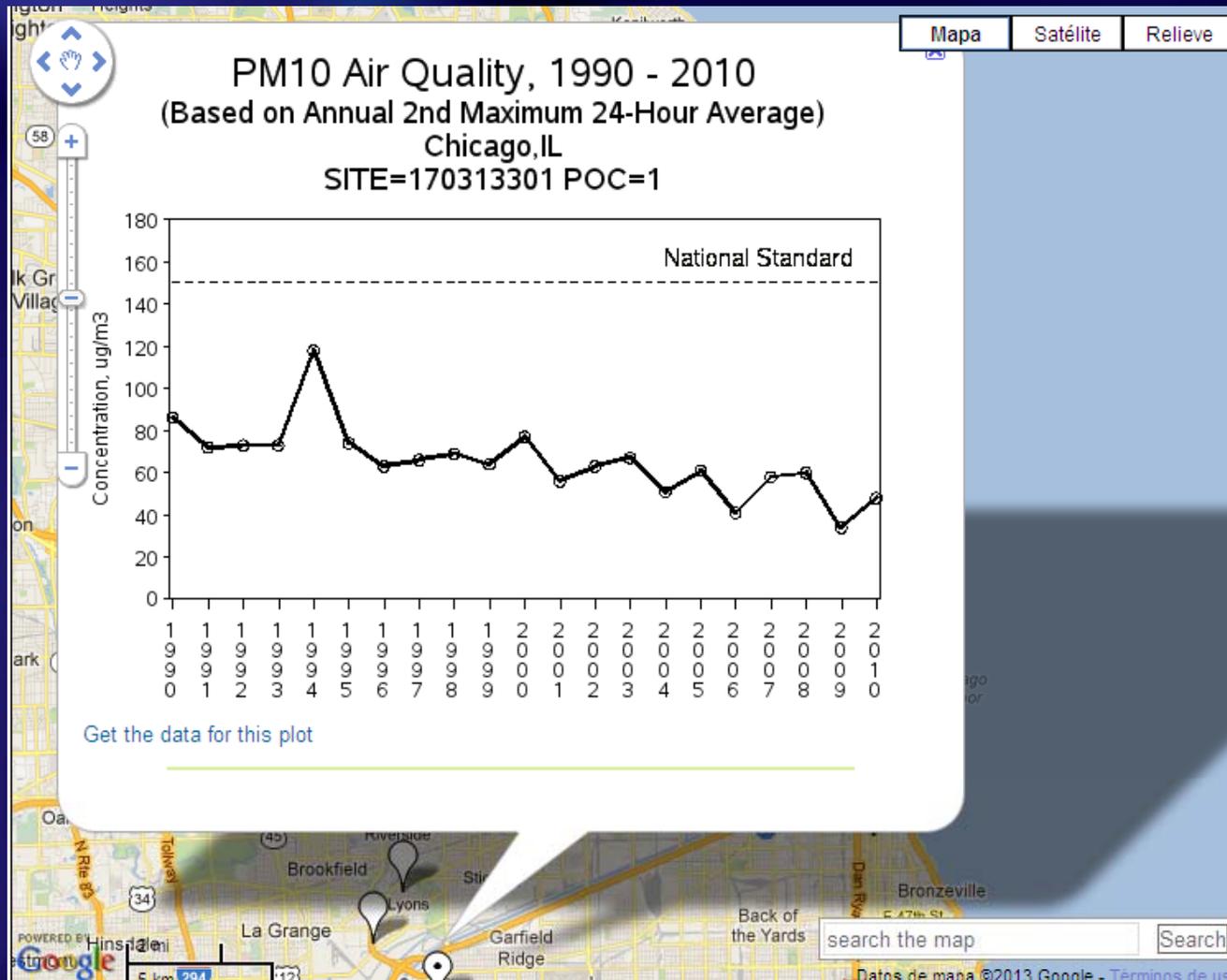


Particulate & Relative Humidity





Regional Particulate Data



<http://www.epa.gov/airtrends/pm.html>

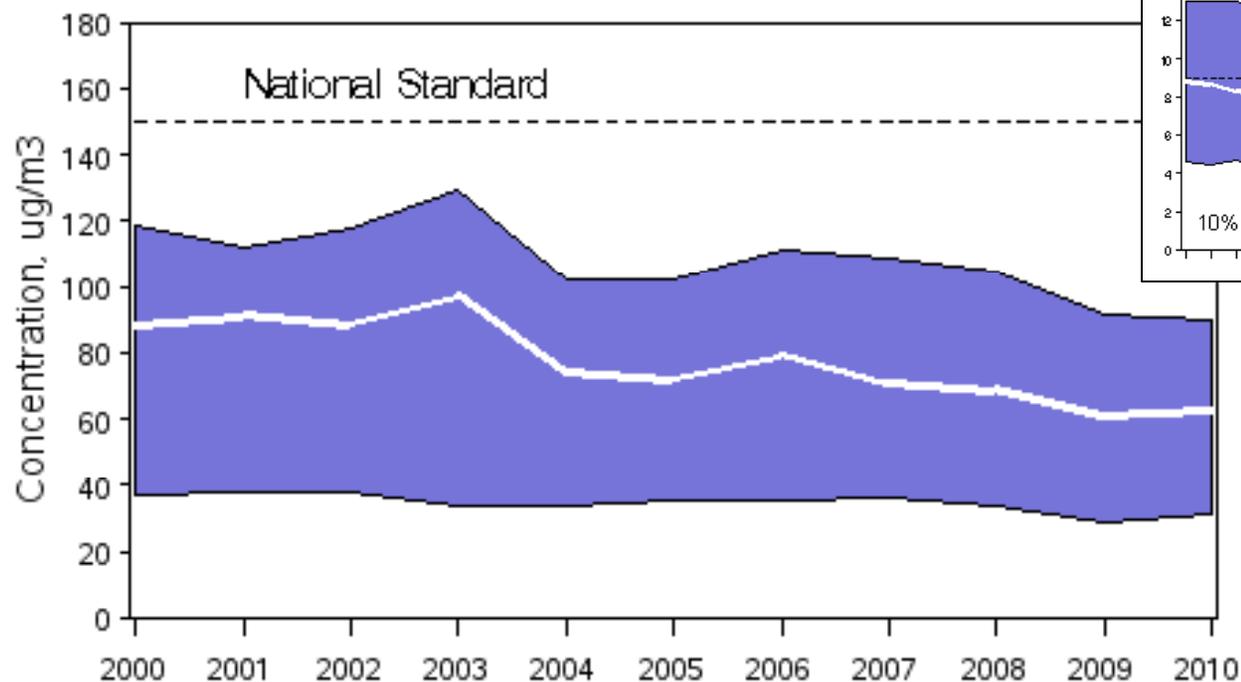


National Particulate Data

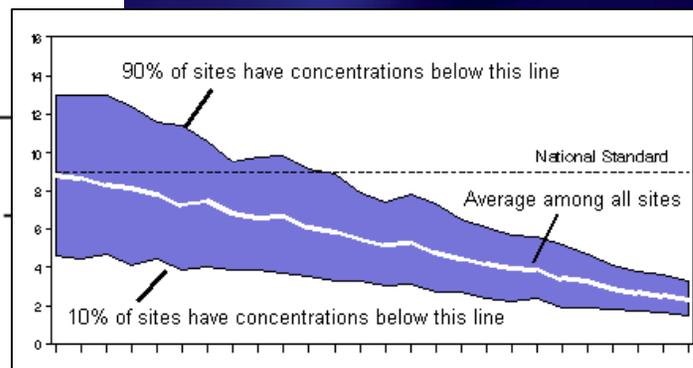
PM10 Air Quality, 2000 - 2010

(Based on Annual 2nd Maximum 24-Hour Average)

National Trend based on 601 Sites



2000 to 2010 : 29% decrease in National Average





Mobile Data

- 3 runs/day





Mobile Perimeter Runs



All data points at <https://r5imt.net/pilsen/>



Data

- Radiation screening
 - Background



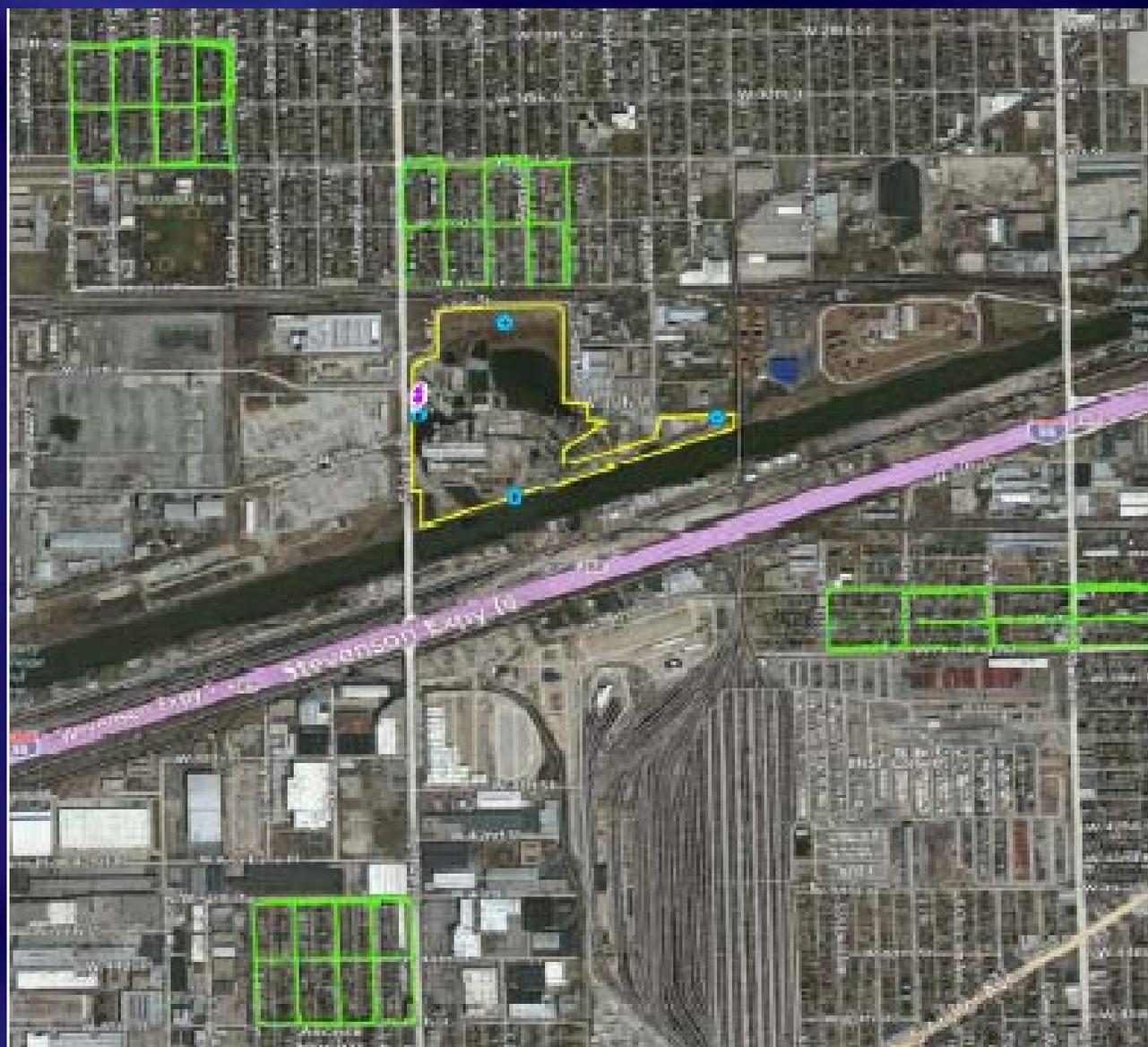


Rad Screening Around Fisk





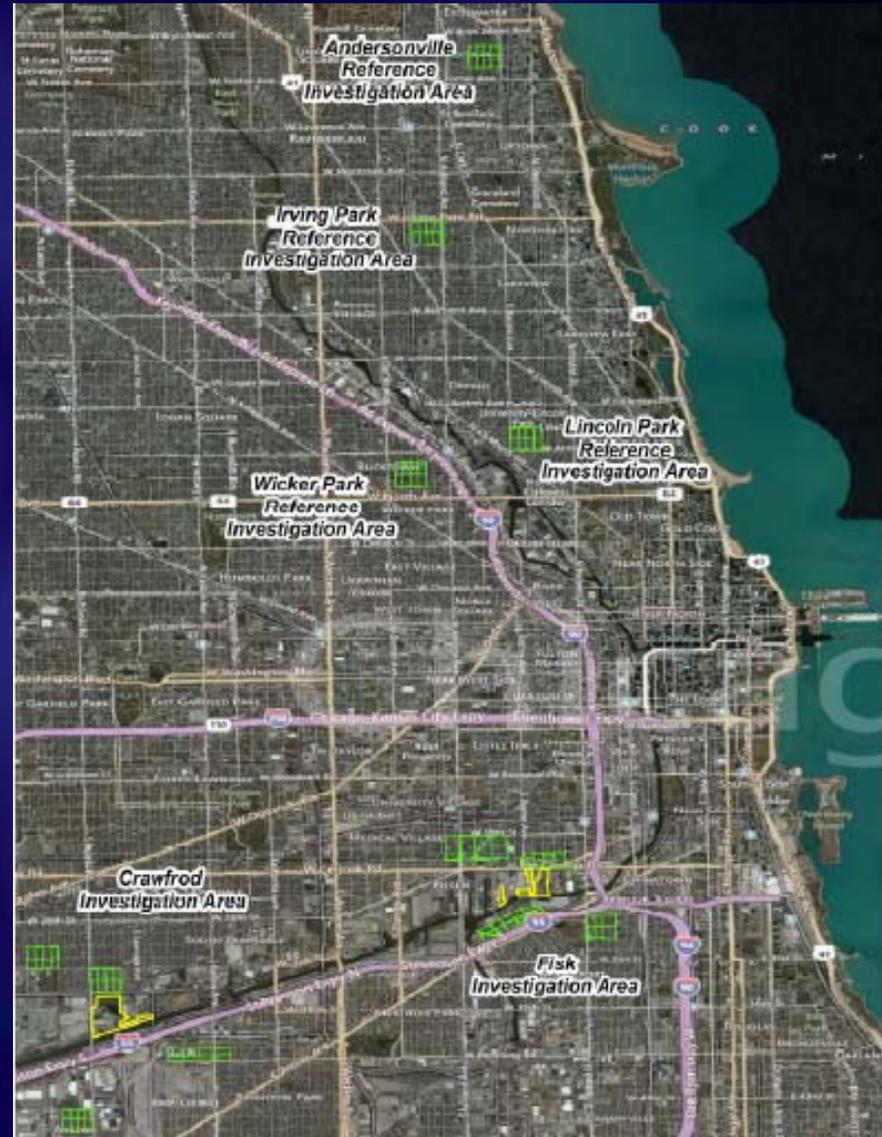
Rad Screening Around Crawford





Rad Screening Reference Areas

All data points at <https://r5imt.net/pilsen/>





Results

DUST

- Particulate (PM-10) monitoring in both stable & unstable conditions did not reveal levels of concern for dust from either site.
- Particulate (PM-10) levels are consistent with background dust levels found in urban areas.

RADIATION

- Gamma radiation levels surrounding both sites are similar to reference neighborhoods.
- Gamma radiation levels are consistent with background levels found in urban areas.



Outreach - Fact Sheets



Air Testing Set Near Pilsen, Little Village Coal Plants

Fisk Station and Crawford Station Sites
Chicago, Illinois November / December 2012

For more information
For questions, comments or more
information about tests near the Fisk
and Crawford sites, contact:

Paul Ruesch
On-Scene Coordinator
312-886-7898
rueschpaul@epa.gov

Heriberto León
Community Involvement
Coordinator
312-886-6163
leonherberto@epa.gov

Superfund Division
77 W Jackson Blvd.
Chicago, IL 60604

You may call the EPA toll free at
800-621-8431, weekdays,
8:30 a.m. - 4:30 p.m.

Or visit:
www.epa.gov/region5/cleanup/pilsenlittlevillage

To keep the community better
informed, EPA is working with:

Pilsen Environmental Rights and
Reform Organization
312-854-9247
www.pilsenperro.org

Little Village Environmental Justice
Organization
773-762-6991
info@ljejo.org



The Fisk Station is seen from a street in the Pilsen neighborhood.

The U.S. Environmental Protection Agency will be conducting air monitoring and radiation screening around Midwest Generation's Fisk Station and Crawford Station sites in December.

The EPA will monitor the air around the facilities and check for radiation in residential areas near the sites. This will help the EPA address concerns about human health and the environment in southwest Chicago's Pilsen and Little Village communities.

EPA will attempt to monitor the air on both windy days and calm days. This is expected to show how weather and site activity may affect dust levels. The air monitoring will only measure how much dust is around the perimeter of the sites. It will not show what is in the dust. If EPA finds a significant amount of dust is leaving the site, the Agency may do more tests to find out what is in the dust.

The radiation screening in residential areas near the two stations is in response to community concerns that radiation levels may be higher than what would normally be expected. The Pilsen and Little Village screenings will be compared to background readings of radiation from other Chicago residential areas. Unlike the air monitoring, the radiation screening will be done only once.



Se examina el aire cerca de plantas de carbón en Pilsen y La Villita

Las estaciones de Fisk y Crawford
Chicago, Illinois Noviembre / Diciembre 2012

Para más información
Si tiene preguntas, comentarios o
desea más información sobre el aire
cerca de Fisk y Crawford, póngase
en contacto con:

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Coordinador de Acciones en
Terreno
312-886-7898
rueschpaul@epa.gov

Heriberto León
Coordinador de Participación
Comunitaria
312-886-6163
leonherberto@epa.gov

Superfund Division
77 W Jackson Blvd.
Chicago, IL 60604

Puede llamar al número gratuito de
la EPA, 800-621-8431, lunes a
viernes, 8:30 a.m. - 4:30 p.m.

Or visite:
www.epa.gov/region5/cleanup/pilsenlittlevillage

Para mantener a la comunidad
mejor informada, la EPA
colabora con:

Organización sobre Derechos y
Reformas Ambientales en Pilsen
312-854-9247
www.pilsenperro.org

Little Village Environmental Justice
Organization
773-762-6991
info@ljejo.org



La estación de Fisk, vista desde una calle en el barrio de Pilsen.

La Agencia de Protección Ambiental de EE.UU. (EPA por sus siglas en inglés) llevará a cabo monitoreo de aire y detección de radiación alrededor de las estaciones Fisk y Crawford de Midwest Generation en diciembre. La EPA realizará el monitoreo de aire alrededor de las instalaciones e investigará si hay radiación en las zonas residenciales cercanas a ellas. Con estas medidas la EPA procura abordar preocupaciones sobre la salud humana y el medio ambiente en las comunidades de Pilsen y La Villita en el suroeste de Chicago.

La EPA intentará monitorear el aire en días con viento y sin viento para ver cómo el tiempo y las actividades en las instalaciones podrían estar afectando los niveles de polvo. El monitoreo de aire sólo medirá la cantidad de polvo por el perímetro de los sitios y no lo que contiene el polvo. Si la EPA encuentra que sale una cantidad considerable de polvo de los sitios, la agencia podría hacer más pruebas para averiguar lo que tiene el polvo. La detección de radiación en áreas residenciales cerca de las dos estaciones responde a la preocupación de la comunidad de que los niveles de radiación podrían ser más altos de lo normal. Los análisis en Pilsen y La Villita se compararán con los de otras áreas residenciales de Chicago. A diferencia del monitoreo del aire, la detección de radiación se hará de una sola vez.



Region 5

Serving Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin and 35 Tribes

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Environmental Issues in Chicago's Little Village & Pilsen Neighborhoods

EPA is coordinating with representatives from the City of Chicago Department of Public Health, Illinois Environmental Protection Agency, Illinois Department of Public Health, and the Agency for Toxic Substances and Disease Registry on a number of projects in Chicago's Pilsen and Little Village Neighborhoods. Here you can find consolidated information about the different environmental activities in the community.

- [Air Issues](#)
- Cleanup Sites
 - [Celotex Superfund Site](#)
 - [Loewenthal Metals Corp.](#) (former smelter)
 - [Midwest Generation Crawford Generating Station](#)
 - [Midwest Generation Fisk Generating Station](#)
 - [Peoples Gas 22nd Street Station](#) (former manufactured gas plant)
 - [Peoples Gas Crawford Station](#) (former manufactured gas plant)
- Environmental Justice
 - [View of Pilsen neighborhood from EJ Mapper](#)
 - [View of Little Village neighborhood from EJ Mapper](#)
 - [Search the EJ View Mapper](#)

Site Information

Little Village & Pilsen Neighborhoods
Chicago, IL (Cook County)

Contact Information

Community Involvement Coordinator

[Heriberto León](#)
(leon.heriberto@epa.gov)
312-886-6163 or 800-621-8431, ext. 66163

Links [EXIT](#) [Disclaimer](#)

- [Agency for Toxic Substances & Disease Registry](#)
- [City of Chicago Department](#)

Updates

December 2012

EPA staff is currently evaluating the data from the air monitoring along the perimeter of both Midwest Generation - Crawford Station and Fisk Station sites and the radiation screening in the surrounding neighborhood streets. This evaluation is expected to last through early next month.



Region 5 Air and Radiation

Serving Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin and 35 Tribes

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- Air Toxics
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- Tribes
- Vehicles

Air Issues in Chicago's Pilsen Neighborhood

The EPA continues to be concerned about air pollution in the Pilsen neighborhood. EPA is evaluating air quality data gathered by two monitors in the community maintained by Illinois EPA and Cook County Department of Environmental Control.

You will need Adobe Reader to view some of the files on this page. See [EPA's PDF page](#) to learn more.

Air Quality System (AQS) Ambient Monitoring Data

- [Lead Monitoring in the Pilsen Neighborhood](#) - April 2011 [EXIT Disclaimer](#)
- [Monitoreo del plomo en el vecindario de Pilsen](#) - April 2011 [EXIT Disclaimer](#)
- [Ambient monitoring data from Air monitor #1 and #2 for Pilsen area January 2010 - September 2011 \(PDF\)](#) (4pp, 62K)
- [Ambient monitoring data monthly averages for Pilsen area January 2010 - September 2011 \(PDF\)](#) (1pp, 54K)

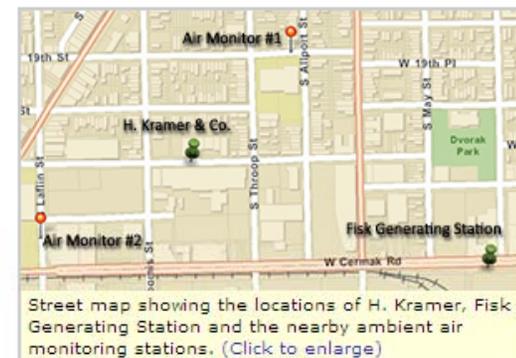
More information about air emissions

- [AirData: Access to Air Pollution Data](#)

Nonattainment Designation for the 2008 Lead National Ambient Air Quality Standard

- [Federal Register: Air Quality Designations for the 2008 Lead \(Pb\) National Ambient Air Quality Standards \(PDF\)](#) (24pp, 229K) Nov. 22, 2011
- [Illinois Area Designations for the 2008 Lead National Ambient Air Quality Standards \(PDF\)](#) (16pp, 1.6MB) Nov. 8, 2011
- [Response to Comments on the State and Tribal Designation Recommendations for the 2008 Lead \(Pb\) National Ambient Air Quality Standards \(NAAQS\) \(PDF\)](#) (14pp, 525K) October 2011
- [Fact Sheet Final Revisions to the National Ambient Air Quality Standards for Lead \(PDF\)](#) (6pp, 94K)
- [October 2008 Final National Ambient Air Quality Standards for Lead - General Overview \(PDF\)](#) (21pp, 778K)

Enforcement History





Outreach Ideas

- Final Fact Sheet (same distribution)
- Final report (POLREP)
- Updated websites
- Community Availability Session
 - Loewenthal Metals
 - Pilsen Area Soils Assessment
 - Former Manufactured Gas Plants
 - Fisk/Crawford Air Monitoring



Questions

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