MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

MONITORING NETWORK PLAN 2024

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1.0 Background

Federal Regulations (40 CFR 58.10) require that State and Local Agencies operating an ambient air quality monitoring network shall review their air quality monitoring network on an annual basis. Any needed modifications to the network should be identified. A detailed monitoring network description should also be included. In addition, the plan shall be available for public comment. MDEQ's Monitoring Network Plan is available on the MDEQ website at *http://www.deq.state.ms.us*.

The Monitoring Network review that is specified in *40 CFR 58.10* contains the following elements that apply to each monitoring site:

- The Air Quality System (AQS) site identification number.
- The location, including street address and geographical coordinates.
- The sampling and analysis method(s) for each measured parameter.
- The operating schedules for each monitor.
- Any proposals to remove or move a monitoring station within a period of 18 months following plan submittal.
- The monitoring objective and spatial scale of representativeness for each monitor as defined in appendix D of part 58.
- The identification of any sites that are suitable and sites that are not suitable for comparison against the annual Particulate Matter (PM)2.5 and Ozone National Ambient Air Quality Standards (NAAQS) as described in part 58.30.
- The Metropolitan Statistical Area (MSA), Core Based Statistical Area (CBSA), Consolidated Statistical Area (CSA) and other areas represented by the monitor.
- The annual monitoring network plans and or periodic network assessments are subject to Regional approval according to part 58.14.

2.0 Overview

In the State of Mississippi, the Mississippi Department of Environmental Quality (MDEQ) is the only agency operating an ambient air quality network. There are no local agencies. In Mississippi, as in other State agencies, network monitors are operated for a variety of monitoring objectives. These objectives include determining if an area of the State meets the NAAQS, for public information such as the Environmental Protection Agency (EPA) AirNow data mapping web site, Air Quality Index (AQI) reporting for public information, background data collection, spatial considerations, and special projects. The AQI forecast is currently reported for the Jackson Metro area, Biloxi/Gulfport area and DeSoto County area on the MDEQ web site at https://www.mdeq.ms.gov/air/air-quality-forecast/. In addition, hourly Ozone (O3), Particulate Matter (PM), Nitrogen Dioxide (NO2), Sulfur Dioxide (SO2), and Carbon Monoxide (CO) data is reported to the EPA AirNow website.

All site data are suitable for the NAAQS comparisons per appendices A, C, D, and E. MDEQ's Quality Management Plan (QMP) is current with an approval date of 10/03/2019, while the Criteria Pollutants Quality Assurance Project Plan (QAPP) has an EPA approval date of 12/06/18. The QMP was reviewed February 2023. The QAPP was reviewed and revised on May 15, 2023. The revised

QAPP is currently being reviewed by EPA for approval. MDEQ's SOPs were reviewed, revised, and submitted to EPA (November - December 2022 and January - April 2023).

40 CFR 58 has set minimum monitoring requirements for the pollutants that are to be compared with the NAAQS. These minimum requirements are based on population, the level of monitored pollutants, and MSA as defined in the latest US Census information (See 10.0 for the US Census information). The tables below and the discussion on the following pages summarize this information.

3.0 Site Discussion

Mississippi's air quality monitoring network has been reviewed based on the historic monitoring data, air quality monitoring regulations, data representation based on spatial considerations, special data needs and changes needed based on the monitoring regulations. The items used in the evaluation were the AQS database, the 40 Code of Federal Regulations (CFR) parts 53 and 58 documents, census data and maps. All monitors operated by MDEQ are State and Local Air Monitoring Stations (SLAMS).

The following sections describe the purposes and any changes related to each site in the ambient air monitoring network in the State of Mississippi based on our review of existing monitoring efforts.

4.0 Metropolitan Statistical Area (MSA)-NON MSA

Memphis MSA:

1. **Hernando** (DeSoto Co. 28.033.0002) – MDEQ operates an O3 monitor, and a continuous Federal Equivalent Method (FEM) PM2.5 monitor at this site that is designated as a transport monitor and therefore is a required monitor. MDEQ has a Regional Monitoring Agreement (RMA) with Shelby County, TN Health Department, and Arkansas Department of Energy and Environment Division of Environmental Quality to meet Appendix D requirements section 2, e. A copy of this agreement is attached (See Section 11.0) and is on file at EPA Region 4. MDEQ has no plans to change the current monitoring efforts at this site.

    - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. See Appendix A for a summary of MDEQ's siting criteria information.

    - **Sampling train:** The probe tubing is Fluorinated Ethylene Propylene (FEP), and the probe fittings are Perfluoroalkoxy (PFA). The stainless-steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel. See Appendix A for a summary of MDEQ's O3 Residence Time.

Jackson MSA:

1. **Jackson NCore** (Hinds Co. 28.049.0020) – The NCore site contains a full complement of monitors, including meteorological. The monitoring parameters currently include O3, SO2, CO, Nitric Oxides as NOy, manual Federal Reference Method (FRM) PM2.5, continuous FEM PM2.5, continuous FEM PM_{10}, FEM PM10-2.5, speciated PM2.5, wind speed, wind direction, ambient temperature, and relative humidity. The FEM PM2.5 continuous monitor operates as the primary PM2.5 monitor while

the FRM $PM_{2.5}$ will operate 1/3-day. MDEQ has no plans to change the current monitoring efforts at this site.

- **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. See Appendix A for a summary of MDEQ's Jackson NCore siting criteria information.

- **Sampling train:** The probe tubing is FEP, and the probe fittings are PFA. The stainless-steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel. See Appendix A for a summary of MDEQ's O3, SO2, CO Residence Time.

2. **Jackson Metro MSA** (Hinds Co. 28.049.0021) – MDEQ operates an O3 monitor, and a continuous FEM PM2.5 monitor at this site. MDEQ has no plans to change the current monitoring efforts at this site.

- **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. See Appendix A for a summary of MDEQ's Hinds Co. siting criteria information.

- **Sampling train:** The probe tubing is FEP, and the probe fittings are PFA. The stainless-steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel. See Appendix A for a summary of MDEQ's O3 Residence Time.

Hattiesburg MSA:

1. **Hattiesburg** (Forrest Co. 28.035.0004) – MDEQ operates a continuous FEM $PM_{2.5}$ monitor at this site. In addition, a collocated FRM $PM_{2.5}$ monitor will continue to operate on a 1/6-day schedule to meet MDEQ's collocated requirements. MDEQ has no plans to change the current monitoring efforts at this site.

- **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. See Appendix A for a summary of MDEQ's Hattiesburg siting criteria information.

Gulfport-Biloxi-Pascagoula MSA:

1. **Gulfport** (Harrison Co. 28.047.0008) – MDEQ operates an ozone monitor, and a continuous FEM PM2.5 monitor at this site. MDEQ has no plans to change the current monitoring efforts at this site.

- **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. See Appendix A for a summary of MDEQ's Gulfport siting criteria information.

- **Sampling train:** The probe tubing is FEP, and the probe fittings are PFA. The stainless-steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel. See Appendix A for a summary of MDEQ's OZONE Residence Time.

2. **Waveland** (Hancock Co. 28.045.0003) – MDEQ operates an ozone monitor, and a continuous FEM PM2.5 monitor at this site. MDEQ has no plans to change the current monitoring efforts at this site.

- **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. See Appendix A for a summary of MDEQ's Waveland siting criteria information.

- **Sampling train:** The probe tubing is FEP, and the probe fittings are PFA. The stainless-steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel. See Appendix A for a summary of MDEQ's OZONE Residence Time.

3. **Pascagoula** (Jackson Co. 28.059.0006)- MDEQ operates an OZONE, SO2, nitrogen oxide (NOx) monitor, and a continuous FEM PM2.5 monitor at this site. The NOx monitor is designated as an RA-40 site. The SO2 monitor is designated as a population weighted exposure index (PWEI) site. MDEQ has no plans to change the current monitoring efforts at this site.

   - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. See Appendix A for a summary of MDEQ's Pascagoula siting criteria information.

   - **Sampling train:** The probe tubing is FEP, and the probe fittings are PFA. The stainless-steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel. See Appendix A for a summary of MDEQ's OZONE, SO2 and NOx Residence Time.

     MDEQ will establish a Special Purpose Monitoring (SPM) station in the Cherokee Community of Pascagoula, MS by June 2024. This SPM station will be operated for a minimum of one year near the Cherokee community, which is situated in close proximity to the Bayou Casotte Industrial Complex. The pollutants of concern identified by EPA and the Agency for Toxic Substances and Disease Registry (ATSDR) for the Cherokee Community include particulate matter smaller than 10 microns in diameter (PM10), PM10 metals, volatile organic compounds (VOC), and total reduced sulfur compounds. PM10 and total reduced sulfur compounds will be monitored continuously, while PM10 metals and VOCs will be sampled on a 1 in 6-day schedule. Additionally, near fenceline SPODs that trigger sample canisters are proposed for the project to capture any high concentration VOC plumes that may occur outside of a regularly scheduled sample day near the Bayou Casotte Industrial Complex.

     This proposed multi-pollutant air quality monitoring project will obtain quality, long term monitoring data necessary to identify the presence of any air quality problem associated with the pollutants of greatest concern in the Cherokee community. The main concern for the Cherokee community is the potential for cumulative risk associated with the proximity to an industrial complex housing multiple types of industrial sources. The benefit of identifying whether an air quality problem exists in this Environmental Justice (EJ) community will be to (1) put citizens' minds at ease should no air quality problem be found or (2) give MDEQ and other agencies the necessary data to identify ways to mitigate any air quality problem and/or reduce any unacceptable risk to the community.

Non- MSA Sites:

1. **Meridian** (Lauderdale Co. 28.075.0003) – An ozone monitor is operated at this site. MDEQ has no plans to change the current monitoring efforts at this site.

   - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. See Appendix A for a summary of MDEQ's Meridian siting criteria information.

   - **Sampling train:** The probe tubing is FEP, and the probe fittings are PFA. The stainless-steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel. See Appendix A for a summary of MDEQ's OZONE Residence Time.

2. **Tupelo** (Lee Co. 28.081.0005) – An ozone monitor is operated at this site. MDEQ has no plans to change the current monitoring efforts at this site.

   - **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. See Appendix A for a summary of MDEQ's siting criteria information.

- **Sampling train:** The probe tubing is FEP, and the probe fittings are PFA. The stainless-steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel. See Appendix A for a summary of MDEQ's OZONE Residence Time.

3. **Cleveland** (Bolivar Co. 28.011.0002) – MDEQ operates an ozone monitor, and a continuous FEM PM2.5 monitor (Background) at this site. MDEQ has no plans to change the current monitoring efforts at this site.

- **Site Approval Status:** Site and monitors meet all design criteria for the monitoring network. See Appendix A for a summary of MDEQ's Cleveland siting criteria information.

- **Sampling train:** The probe tubing is FEP, and the probe fittings are PFA. The stainless-steel fitting at the funnel has been drilled and the FEP tubing pushed through the fitting and extends into the funnel. See Appendix A for a summary of MDEQ's OZONE Residence Time.

5.0 NCore Site Tables

AQS ID	MSA	Site Name	County	City	Latitude	Longitude	Street Address	Elevation (meters)	Site start date	Location Setting
28-049-0020	Jackson	Jackson NCore	Hinds	Jackson	32.19.45	90.10.58	232 E Woodrow Wilson	93	7/01/2013	Urban and city center

Parameter	Monitoring Objective	Measurement Scale	Designation	Type	Method	Schedule	Comment
CO	Pop. Exp.	Neighborhood	NCore	Continuous Monitor	Non-Dispersive IR	Jan-Dec	
NO_y	Pop. Exp.	Neighborhood /Urban	NCore	Continuous Monitor	Chemiluminescence	Jan-Dec	
O_3	Pop. Exp.	Neighborhood /Urban	NCore	Continuous Monitor	UV Photometry	Jan-Dec	
SO_2	Pop. Exp.	Neighborhood	NCore	Continuous Monitor	UV fluorescence	Jan-Dec	
FRM $PM_{2.5}$	Pop. Exp	Neighborhood	NCore	Manual Reference Monitor (3 Day)	Gravimetric Analysis	Jan-Dec	
FEM $PM_{2.5}$	Pop. Exp	Neighborhood	NCore	Continuous Monitor	Broadband Spectroscopy	Jan-Dec	T640x
$PM_{2.5}$ Speciation	Pop. Exp	Neighborhood	NCore	Manual Monitor (3 Day)	Multiple Methods	Jan-Dec	
PM coarse	Pop. Exp	Neighborhood	NCore	Continuous Monitor	Difference by Broadband Spectroscopy	Jan-Dec	T640x
Meteorological	--	--	NCore	--	Wind speed, direction, ambient temperature, humidity	Jan-Dec	
Radiation	Pop. Exp	Urban	Rad Net	Continuous / Manual Monitor		Jan-Dec	Non NCore

6.0 Network Tables

NETWORK DESIGN TABLES MISSISSIPPI

PM10

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Collocated	Type	Method	Schedule	Comment
Jackson NCore	Hinds	Jackson	28-049-0020	Pop. Exp.	Urban	1	No	Continuous	239	Jan-Dec	T640x

PM2.5

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Collocated	Type	Method	Schedule
Hernando	DeSoto	Memphis	28-033-0002	Transport	Urban	1	No	Continuous	236 T640	Jan-Dec
Hattiesburg	Forrest	Hattiesburg	28-035-0004	Pop. Exp.	Neighborhood	1	Yes	Manual (1/6 day) collocated Continuous	145 SEQ 236 T640	Jan-Dec Jan-Dec
Waveland	Hancock	Gulf/Biloxi	28-045-0003	Pop. Exp.	Neighborhood	0	No	Continuous	236 T640	Jan-Dec
Gulfport	Harrison	Gulf/Biloxi	28-047-0008	Pop. Exp.	Neighborhood	1	No	Continuous	236 T640	Jan-Dec
Pascagoula	Jackson	Pascagoula	28-059-0006	Pop. Exp.	Neighborhood	0	No	Continuous	236 T640	Jan-Dec
Jackson NCore	Hinds	Jackson	28-049-0020	Pop. Exp.	Neighborhood	1	No	PM10-2.5 (primary) Manual (3 Day) Continuous	238 T640x 240 T640x 145 SEQ	Jan-Dec Jan-Dec Jan-Dec
Jackson	Hinds	Jackson	28-049-0021	Pop. Exp.	Neighborhood	1	No	Continuous	236 T640	Jan-Dec
Cleveland	Bolivar	N/A	28-011-0002	Background	Neighborhood	1	No	Continuous	236 T640	Jan-Dec

Comments: All manual monitors are FRM and classified as SLAMS. The continuous FEM monitors will be primary.

SO2

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Type	Method	Schedule
Jackson NCore	Hinds	Jackson	28-049-0020	Pop. Exp.	Neighborhood	1	Continuous	600	Jan-Dec
Pascagoula	Jackson	Pascagoula	28-059-0006	Pop. Exp.	Neighborhood	0	Continuous	060	Jan-Dec

Comments: All monitors are classified as SLAMS

NOx/NOy

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Type	Method	Schedule
Jackson NCore	Hinds	Jackson	28-049-0020	Pop. Exp.	Neighborhood /Urban	1	Continuous	699	Jan-Dec
Pascagoula	Jackson	Pascagoula	28-059-0006	Pop. Exp.	Neighborhood	0	Continuous	099	Jan-Dec

Comments: All monitors are classified as SLAMS

CO

Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Type	Method	Schedule
Jackson NCore	Hinds	Jackson	28-049-0020	Pop. Exp.	Neighborhood	1	Continuous	055	Jan-Dec

OZONE

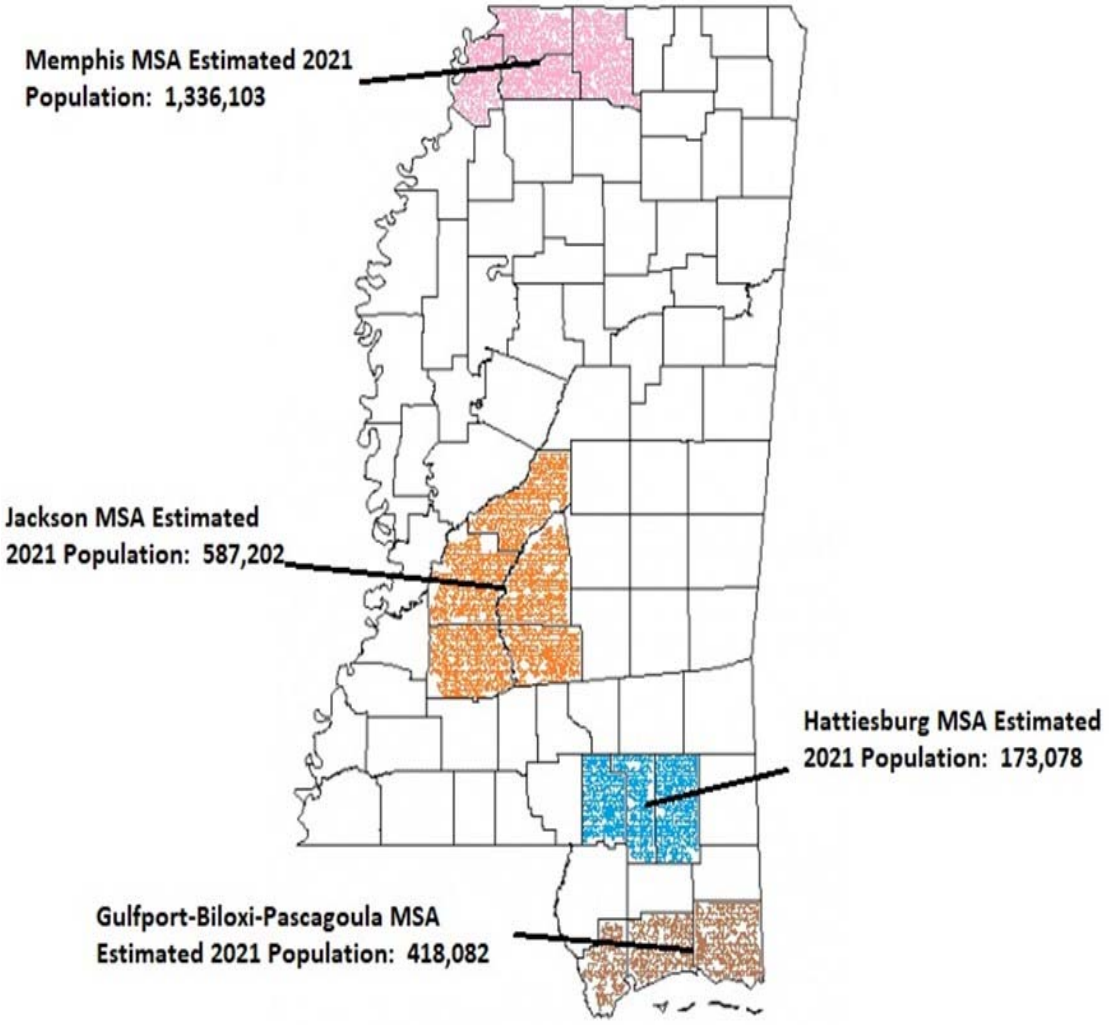
Location	County	MSA	AQS ID	Monitoring Objective	Measurement Scale	MSA Min Required	Type	Method	Schedule
Cleveland	Bolivar	N/A	28-011-0002	Pop. Exp.	Urban	0	Continuous	UV Absorp	Mar - Oct
Gulfport	Harrison	Gulf/Biloxi/Pas	28-047-0008	Pop. Exp.	Urban	1	Continuous	UV Absorp	Mar - Oct
Waveland	Hancock	Gulf/Biloxi/Pas	28-045-0003	Pop. Exp.	Urban	0	Continuous	UV Absorp	Mar - Oct
Hernando	DeSoto	Memphis	28-033-0002	Pop. Exp.	Urban	1	Continuous	UV Absorp	Mar - Oct
Jackson	Hinds	Jackson	28-049-0021	Pop. Exp.	Urban	1	Continuous	UV Absorp	Mar - Oct
Jackson NCore	Hinds	Jackson	28-049-0020	Pop. Exp.	Urban	1	Continuous	UV Absorp	Jan - Dec
Meridian	Lauderdale	N/A	28-075-0003	Pop. Exp.	Urban	0	Continuous	UV Absorp	Mar - Oct
Pascagoula	Jackson	Gulf/Biloxi/Pas	28-059-0006	Pop. Exp.	Urban	1	Continuous	UV Absorp	Mar - Oct
Tupelo	Lee	N/A	28-081-0005	Pop. Exp.	Urban	0	Continuous	UV Absorp	Mar - Oct

Comments: All monitors are classified as SLAM

7.0 Site Location Coordinates

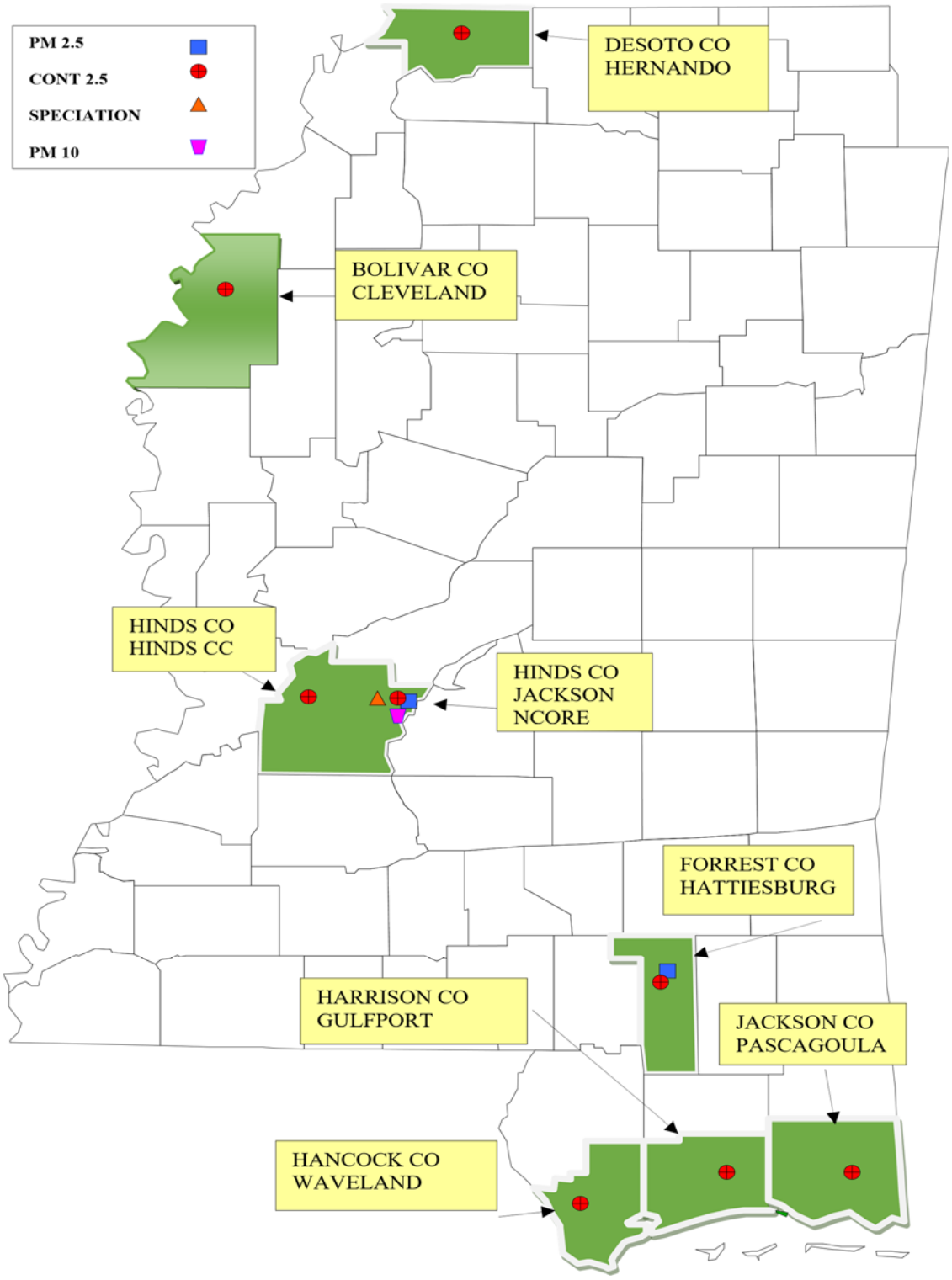
	SITE ID	LAT			LONG			NAME	COUNTY	ADDRESS
1	28-011-0002	33	45	3	90	44	3	CLEVELAND	BOLIVAR	HWY 8 Cleveland (Delta State)
2	28-033-0002	34	49	14	89	59	16	HERNANDO	DESOTO	5 East South St.
3	28-035-0004	31	19	26	89	17	32	HATTIESBURG	FORREST	101 Ferguson St.
4	28-045-0003	30	18	4	89	23	45	WAVELAND	HANCOCK	400 Baltic St.
5	28-047-0008	30	23	24	89	2	59	GULFPORT YC	HARRISON	47 Maples Dr.
	28-049-0021	32	19	14	90	10	50	HINDS CC	HINDS	3925 Sunset Dr.
7	28-049-0020	32	19	45	90	10	58	JACKSON NCORE	HINDS	232 E Woodrow Wilson
8	28-059-0006	30	22	41	88	32	2	PASCAGOULA	JACKSON	Hospital Rd. and LT Eugene J Majure Dr.
9	28-075-0003	32	21	52	88	43	53	MERIDIAN	LAUDERDALE	Hwy 19 and 53rd Ave.
10	28-081-0005	34	15	54	88	45	58	TUPELO	LEE	West Jackson at Tupelo Airport

8.0 MSA and Pollutant Maps

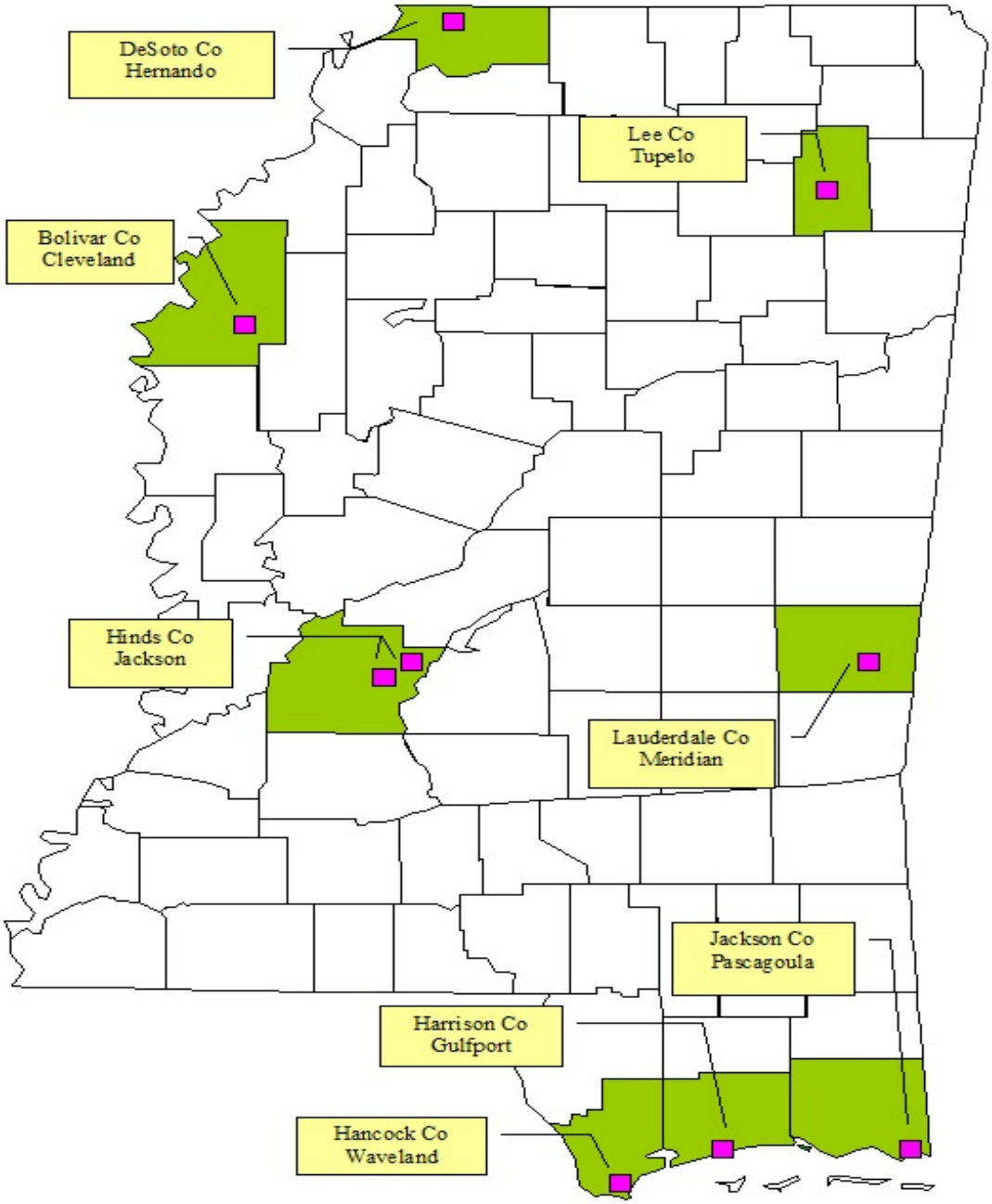


MISSISSIPPI MSA AREAS 2024

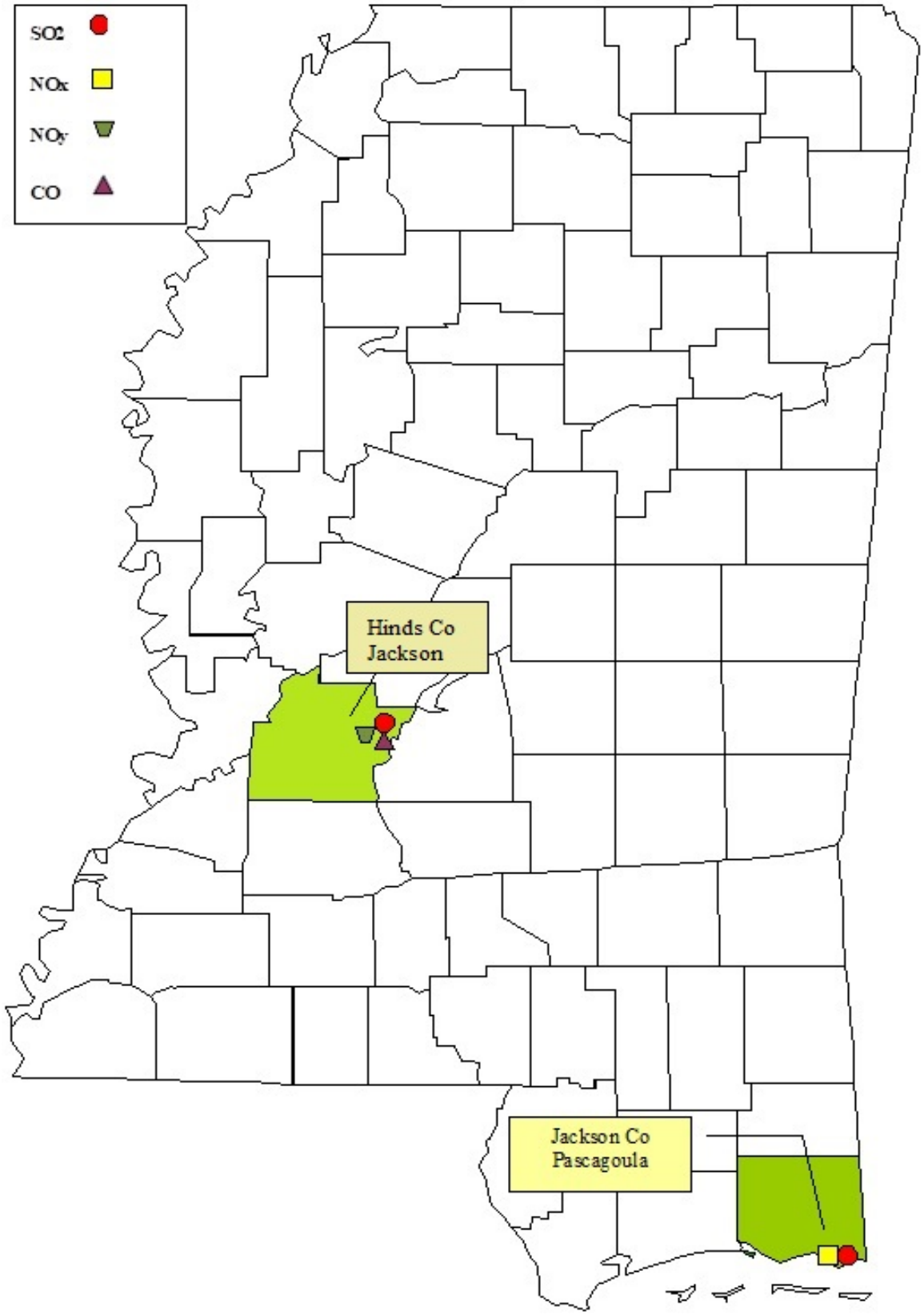
MEMPHIS – DeSoto, Tunica, Marshall, Tate
JACKSON – Hinds, Rankin, Copiah, Simpson, Madison
HATTIESBURG – Lamar, Forrest, Perry
GULFPORT-BILOXI-PASAGOULA – Hancock, Harrison, Jackson



MDEQ PARTICULATE SITES 2024



MDEQ OZONE SITES - 2024



MDEQ SO2 / NOx/ NOy/ CO SITES - 2024

9.0 Site Maps and Current Photos

CLEVELAND

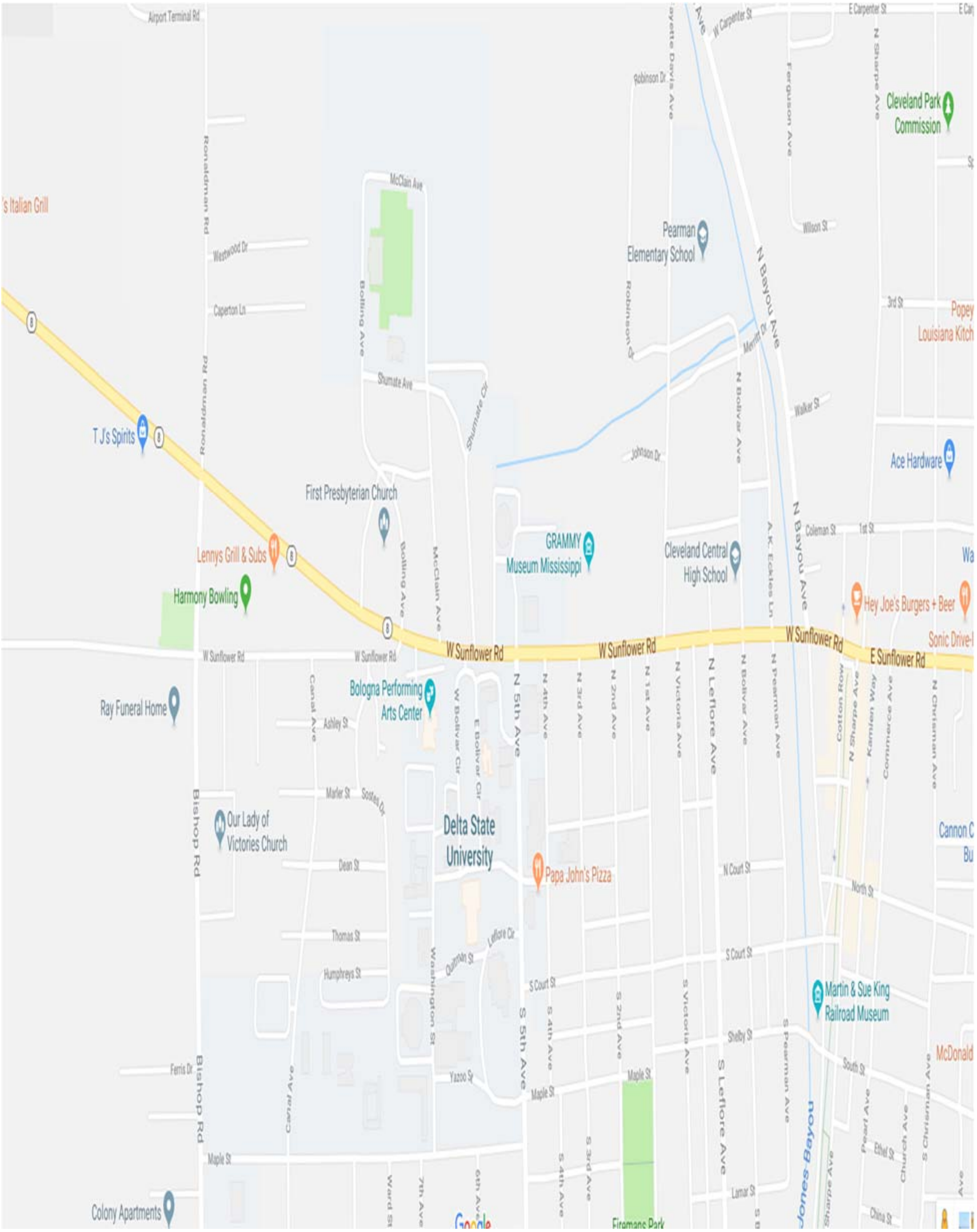
Cleveland-North (2023)

Cleveland-South (2023)

Cleveland-East (2023)

Cleveland-West (2023)

Cleveland-28-011-0002 (2023)


Airport Terminal Rd
W Carpenter St
E Carpenter St
Robinson Dr
N Sharpe Ave
Cleveland Park
Commission
Ferguson Ave
Ronaldman Rd
McClain Ave
Westwood Dr
Wilson St
Pearman
Elementary School
N Bayou Ave
Caperton Ln
Bolling Ave
Robinson Dr
3rd St
Merritt Dr
Shumate Ave
Shumate Cir
N Bolivar Ave
Walker St
T J's Spirits
Johnson Dr
Ace Hardware
First Presbyterian Church
A.K. Eckles Ln
Coleman St
1st St
GRAMMY
Museum Mississippi
Cleveland Central
High School
Lennys Grill & Subs
Harmony Bowling
McClain Ave
Hey Joe's Burgers + Beer
W Sunflower Rd
E Sunflower Rd
N 5th Ave
N 4th Ave
N 3rd Ave
N 2nd Ave
N 1st Ave
N Victoria Ave
N Leflore Ave
N Pearman Ave
Cotton Row
Kamien Way
Commerce Ave
N Chrisman Ave
Ray Funeral Home
Canal Ave
Ashley St
Bologna Performing
Arts Center
W Bolivar Cir
E Bolivar Cir
Marler St
Bishop Rd
Our Lady of
Victories Church
Delta State
University
Dean St
Papa John's Pizza
N Court St
North St
Thomas St
Humphreys St
Washington St
Leflore Cir
S Court St
Martin & Sue King
Railroad Museum
S 5th Ave
S 4th Ave
S 2nd Ave
S Victoria Ave
S Leflore Ave
S Pearman Ave
Shelby St
South St
McDonald
Ferris Dr
Yazoo St
Maple St
Jones Bayou
Pearl Ave
Church Ave
S Chrisman Ave
Ethel St
Lamar St
China St
Colony Apartments
Ward St
7th Ave
6th Ave
S 3rd Ave
Google
Firemans Park


Tim & Nancy Harvey
Stadium at Dave " Boo...
Robinson Dr
Cleveland 28-011-0002
Shumate Cir
Shumate Cir
Walter Sillers Coliseum
GRAMMY
Museum Mississippi
Interactive exhibits &...
Office of Admissions
McClain Ave
Shumate Cir
ATM
W Sunflower Rd
W Sunflower Rd
W Sunflower Rd

HERNANDO

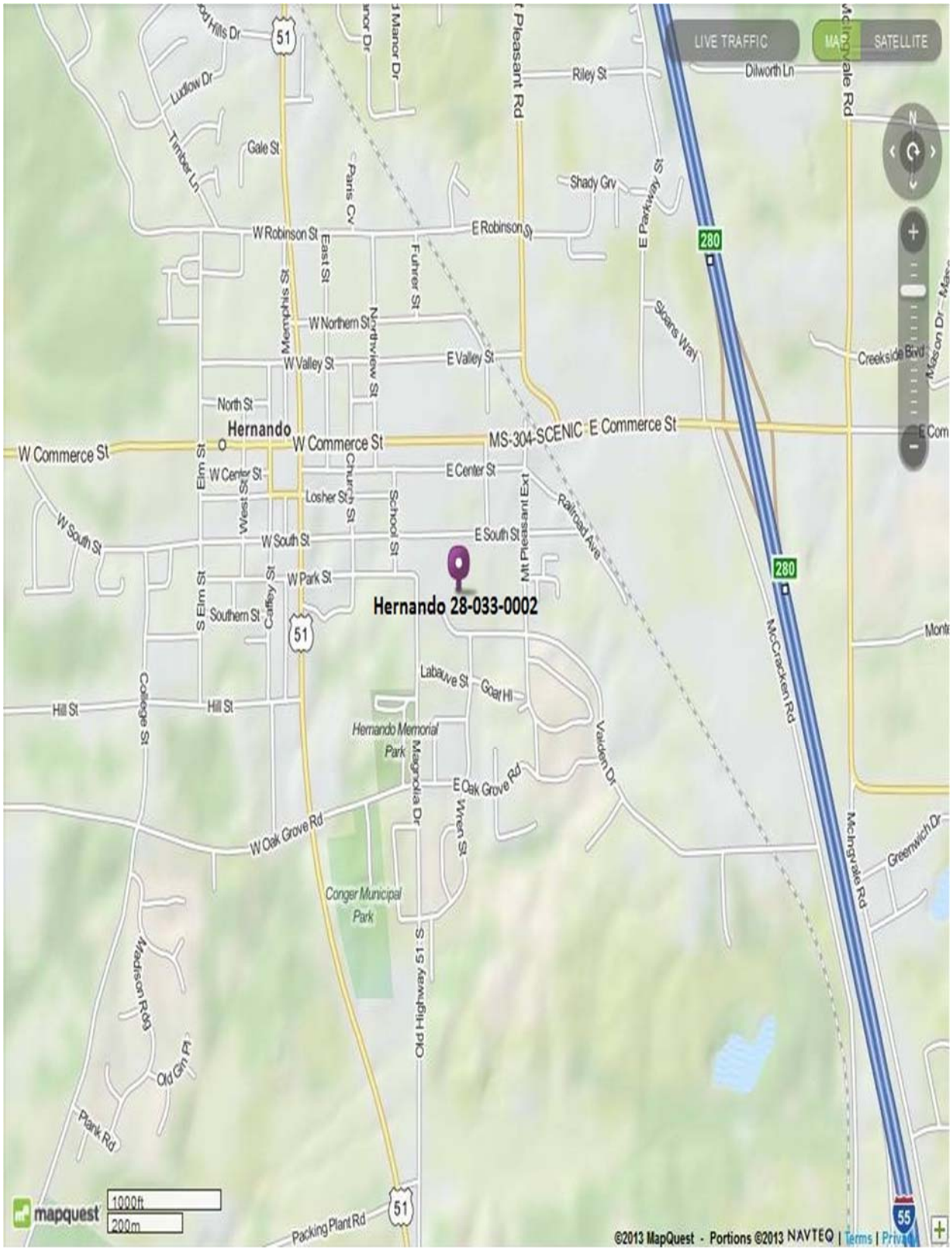
Hernando-North (2023)

Hernando-South (2023)

Hernando-East (2023)

Hernando-West (2023)

Hernando-28-033-0002 (2023)


Hernando 28-033-0002
Hernando
W Commerce St
E Commerce St
MS-304-SCENIC
W Center St
E Center St
W South St
E South St
W Park St
Losher St
W Robinson St
E Robinson St
W Northern St
W Valley St
E Valley St
North St
Riley St
Dilworth Ln
Shady Grv
Gale St
Ludlow Dr
Timber Ln
Paris Cv
Manor Dr
Pleasant Rd
E Parkway St
Memphis St
East St
Fulmer St
Northview St
Sloans Way
Creekside Blvd
Mason Dr
Elm St
West St
Church St
School St
Mt Pleasant Ext
Railroad Ave
S Elm St
Caffey St
Southern St
Labauve St
Goar Hl
Hill St
College St
Hernando Memorial Park
Magnolia Dr
Wren St
Vaiden Dr
Conger Municipal Park
Old Highway 51 S
Madison Rd93
Old Gin Pl
Plank Rd
Packing Plant Rd
McCracken Rd
McIngvale Rd
Greenwich Dr
Monte
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51
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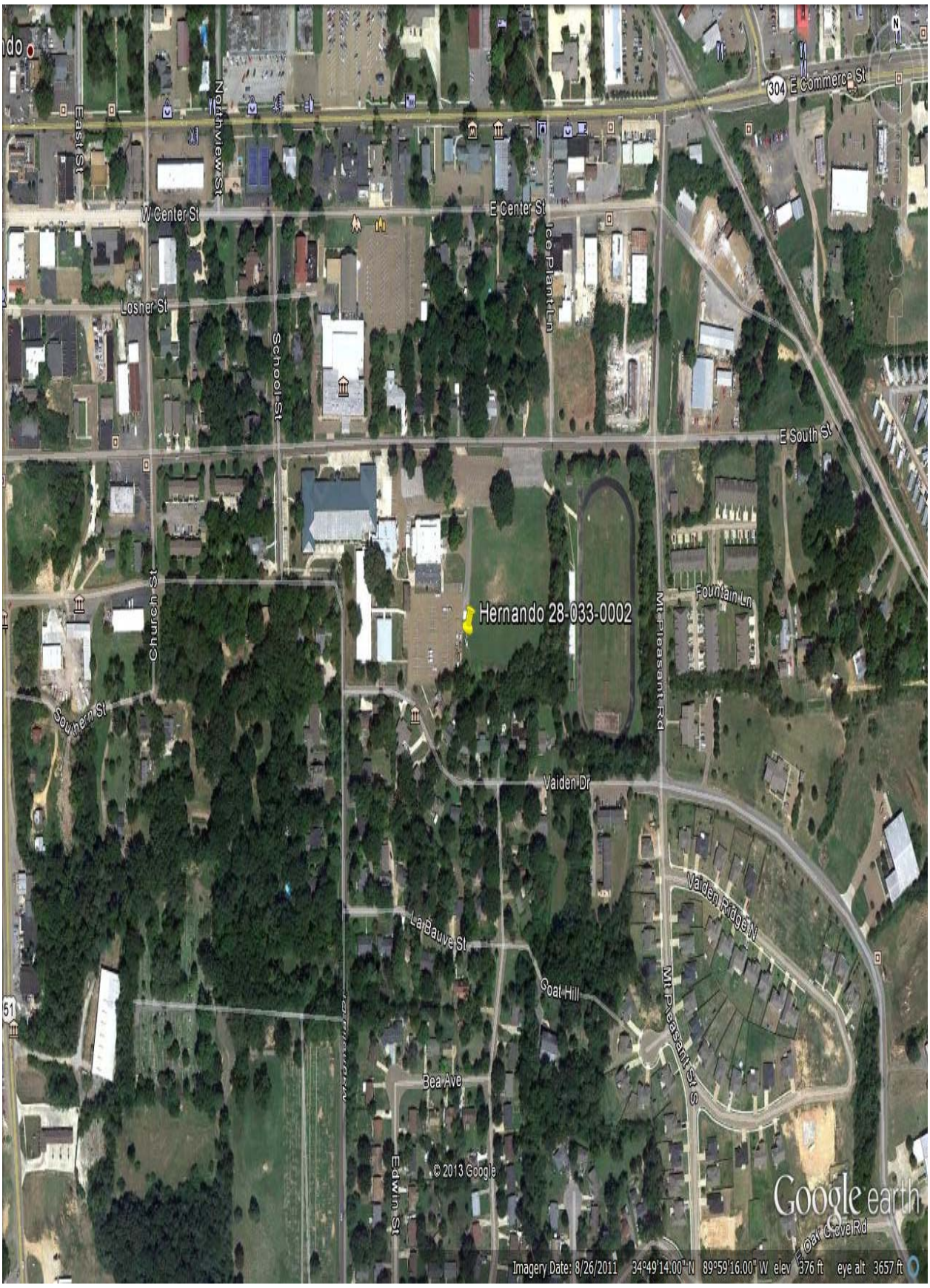
LIVE TRAFFIC
SATELLITE
1000ft
200m
mapquest
©2013 MapQuest - Portions ©2013 NAVTEQ | Terms | Privacy


E Commerce St
304
East St
North View St
W Center St
E Center St
Ice Plant Ln
Losher St
School St
E South St
Church St
Hernando 28-033-0002
Fountain Ln
Mt Pleasant Rd
Southern St
Vaiden Dr
Vaiden Ridge Dr
LaBauve St
Goat Hill
Mt Pleasant St
51
Bea Ave
Edwin St
© 2013 Google
Google earth
Imagery Date: 8/26/2011 34°49'14.00" N 89°59'16.00" W elev 376 ft eye alt 3657 ft

TUPELO

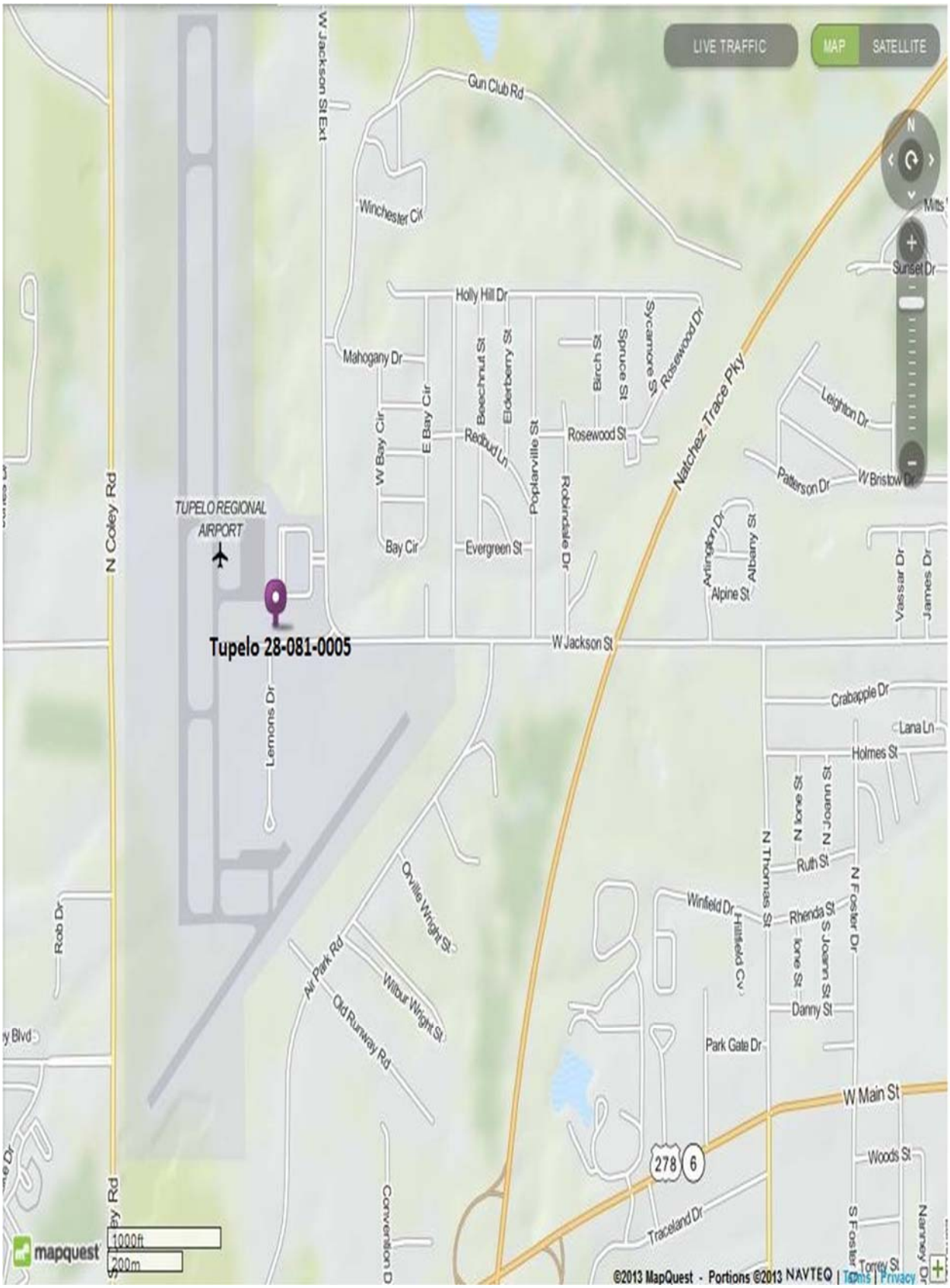
Tupelo-North (2023)

Tupelo-South (2023)

Tupelo-East (2023)

Tupelo-West (2023)

Tupelo-28-081-0005 (2023)


LIVE TRAFFIC
MAP
SATELLITE
Gun Club Rd
W Jackson St Ext
Winchester Cir
Holly Hill Dr
Mahogany Dr
W Bay Cir
E Bay Cir
Beechnut St
Elderberry St
Redbud Ln
Poplarville St
Robindale Dr
Evergreen St
Bay Cir
Birch St
Spruce St
Sycamore St
Rosewood Dr
Rosewood St
Natchez Trace Pky
Leighton Dr
Patterson Dr
W Bristow Dr
Sunset Dr
N Coley Rd
TUPELO REGIONAL AIRPORT
Tupelo 28-081-0005
Lemons Dr
W Jackson St
Arlington Dr
Albany St
Alpine St
Vassar Dr
James Dr
Crabapple Dr
Lana Ln
Holmes St
N Thomas St
N Jone St
N Joann St
Ruth St
N Foster Dr
Winfield Dr
Hatfield Cv
Rhenda St
S Jone St
S Joann St
Danny St
Park Gate Dr
Orville Wright St
Air Park Rd
Wilbur Wright St
Old Runway Rd
Rob Dr
W Main St
Woods St
278
6
Traceland Dr
S Foster Dr
Torrey St
Convention D
1000ft
200m
mapquest
©2013 MapQuest - Portions ©2013 NAVTEQ | Terms | Privacy


Mahogany Dr
W Jackson Street Extended
E Bay Cir
Sourwood Dr
Persimmon Dr
Huckleberry Trail
Bay Cir
Beechnut St
Elderberry St
Redbud Ln
Hickory Dr
Evergreen St
Holly Hill Dr
Poplar Hills Dr
Tupelo 28-081-0005
W Jackson St
Lemons Dr
Colley Rd
HP Park Rd
© 2013 Google
Google earth
Imagery Date: 10/28/2012 34°15'56.88" N 88°45'50.19" W elev 342 ft eye alt 5372 ft

MERIDIAN

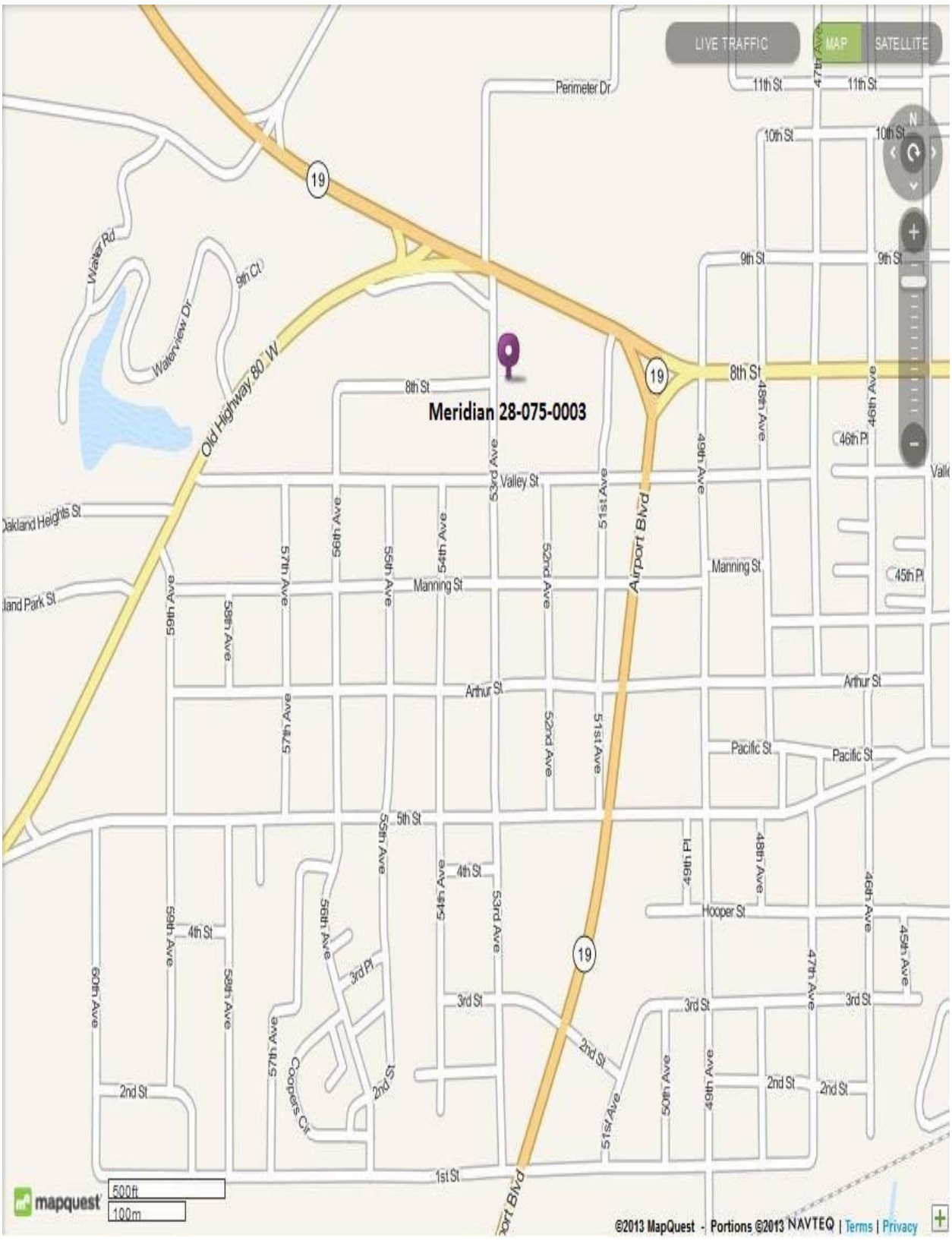
Meridian-North (2023)

Meridian-South (2023)

Meridian-East (2023)

Meridian-West (2023)

Meridian-28-075-0003 (2023)


LIVE TRAFFIC
MAP
SATELLITE
Meridian 28-075-0003
Old Highway 30 W
Airport Blvd
Perimeter Dr
Waterview Dr
Oakland Heights St
Manning St
Arthur St
Pacific St
Hooper St
Valley St
8th St
9th St
10th St
11th St
1st St
2nd St
3rd St
4th St
5th St
46th Ave
47th Ave
48th Ave
49th Ave
50th Ave
51st Ave
52nd Ave
53rd Ave
54th Ave
55th Ave
56th Ave
57th Ave
58th Ave
59th Ave
60th Ave
45th Pl
46th Pl
49th Pl
500 ft
100 m
mapquest
©2013 MapQuest - Portions ©2013 NAVTEQ | Terms | Privacy

NCORE

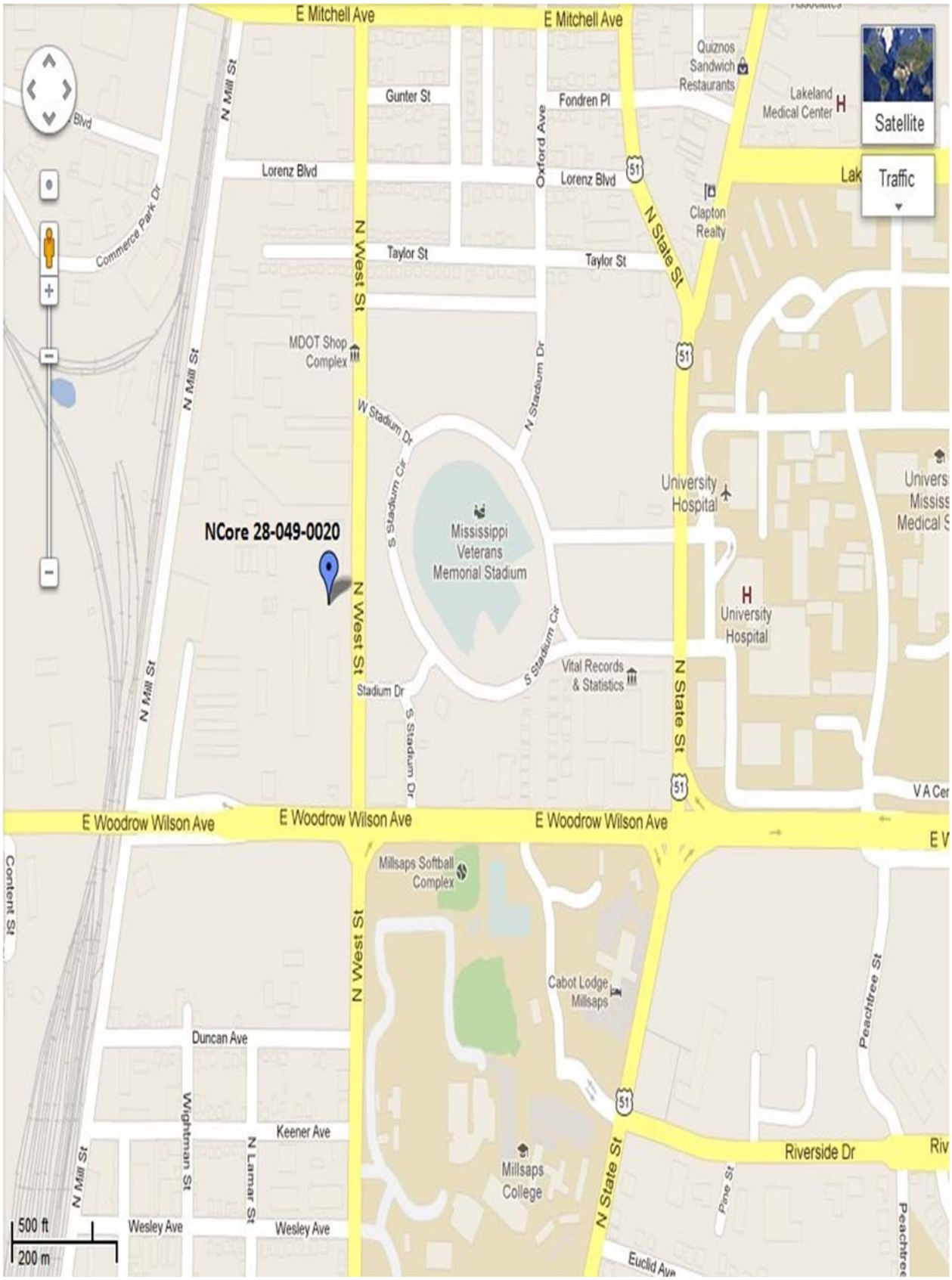
Ncore-North (2023)

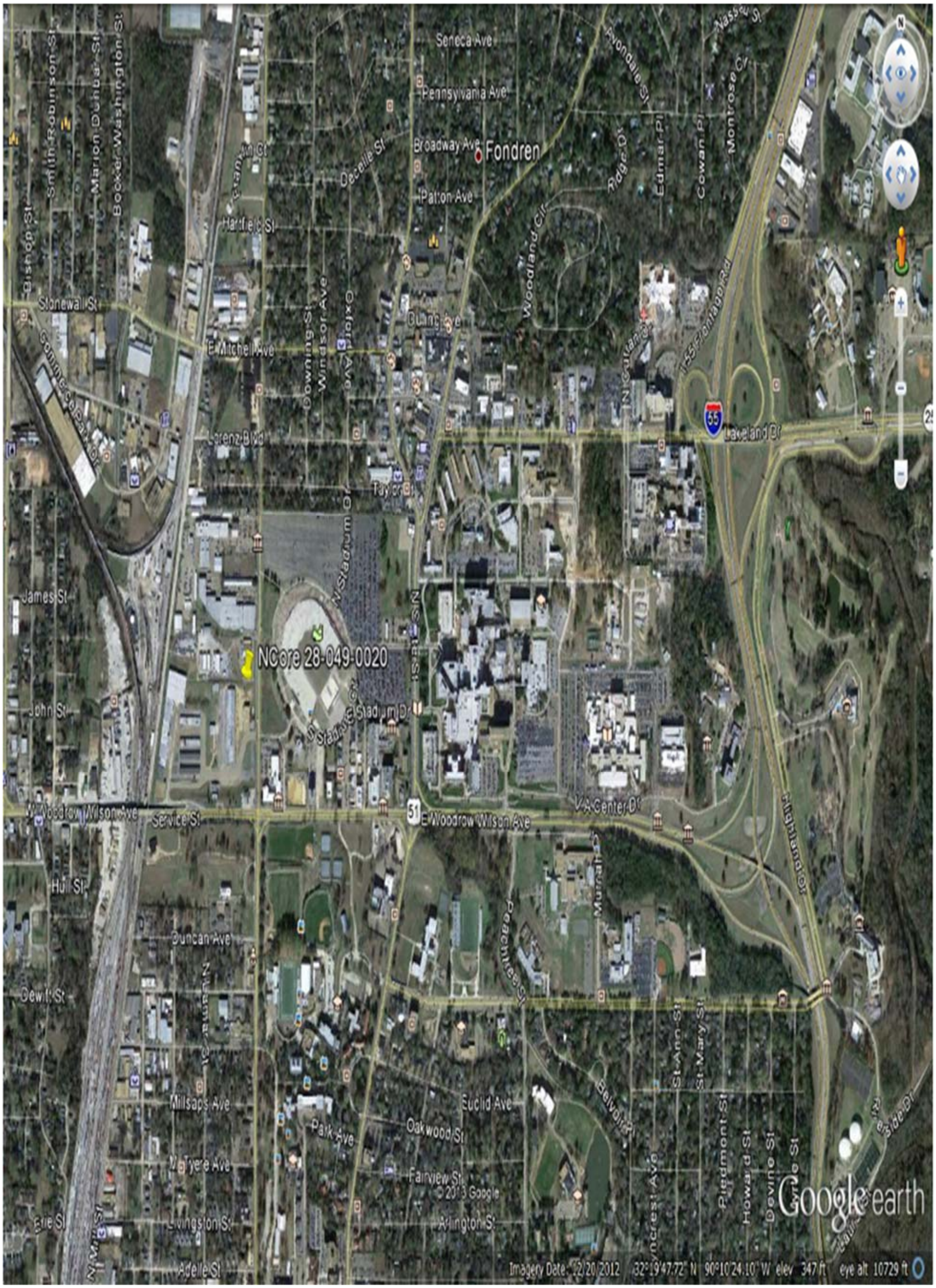
Ncore-South (2023)

Ncore-East (2023)

Ncore-West (2023)

Jackson Ncore-28-049-0020 (2023)


E Mitchell Ave
E Mitchell Ave
Quiznos Sandwich Restaurants
Lakeland Medical Center
Satellite
Traffic
Gunter St
Fondren Pl
Oxford Ave
Lorenz Blvd
Lorenz Blvd
Clapton Realty
N Mill St
Commerce Park Dr
N West St
Taylor St
Taylor St
N State St
MDOT Shop Complex
W Stadium Dr
N Stadium Dr
S Stadium Cir
University Hospital
NCore 28-049-0020
Mississippi Veterans Memorial Stadium
University Hospital
S Stadium Cir
Vital Records & Statistics
Stadium Dr
S Stadium Dr
E Woodrow Wilson Ave
E Woodrow Wilson Ave
E Woodrow Wilson Ave
Millsaps Softball Complex
Cabot Lodge Millsaps
Peachtree St
Duncan Ave
Keener Ave
Wightman St
N Lamar St
Millsaps College
Riverside Dr
Pine St
Wesley Ave
Wesley Ave
Euclid Ave
500 ft
200 m


Seneca Ave
Pennsylvania Ave
Broadway Ave
Fondren
Patton Ave
Hartfield St
Avondale St
Ridge Dr
Edmar Pl
Cowan Pl
Montrose Cir
Nassau St
Smith Robinson St
Marion Dunbar St
Booker Washington St
Bishop St
Stonewall St
E Mitchell Ave
Downing St
Windsor Ave
Oxford Ave
Woodland Cir
I-55 Frontage Rd
Lorenz Blvd
Taylor
Lakeland Dr
55
N Stadium Dr
N State St
James St
NCore 28-049-0020
John St
W Woodrow Wilson Ave
Service St
51
E Woodrow Wilson Ave
VA Center Dr
Highland Dr
Hull St
Duncan Ave
Dewitt St
Murrah St
Peachtree St
Millsaps Ave
Euclid Ave
Park Ave
Oakwood St
Belvoir Pl
St Ann St
St Mary St
Piedmont St
Howard St
Devine St
Riverside Dr
Fairview St
Arlington St
Livingston St
Erie St
Adelle St
N Mill St
© 2013 Google
Google earth
Imagery Date: 12/20/2012 32°19'47.72" N 90°10'24.10" W elev 347 ft eye alt 10729 ft

HINDS COMMUNITY COLLEGE (CC)

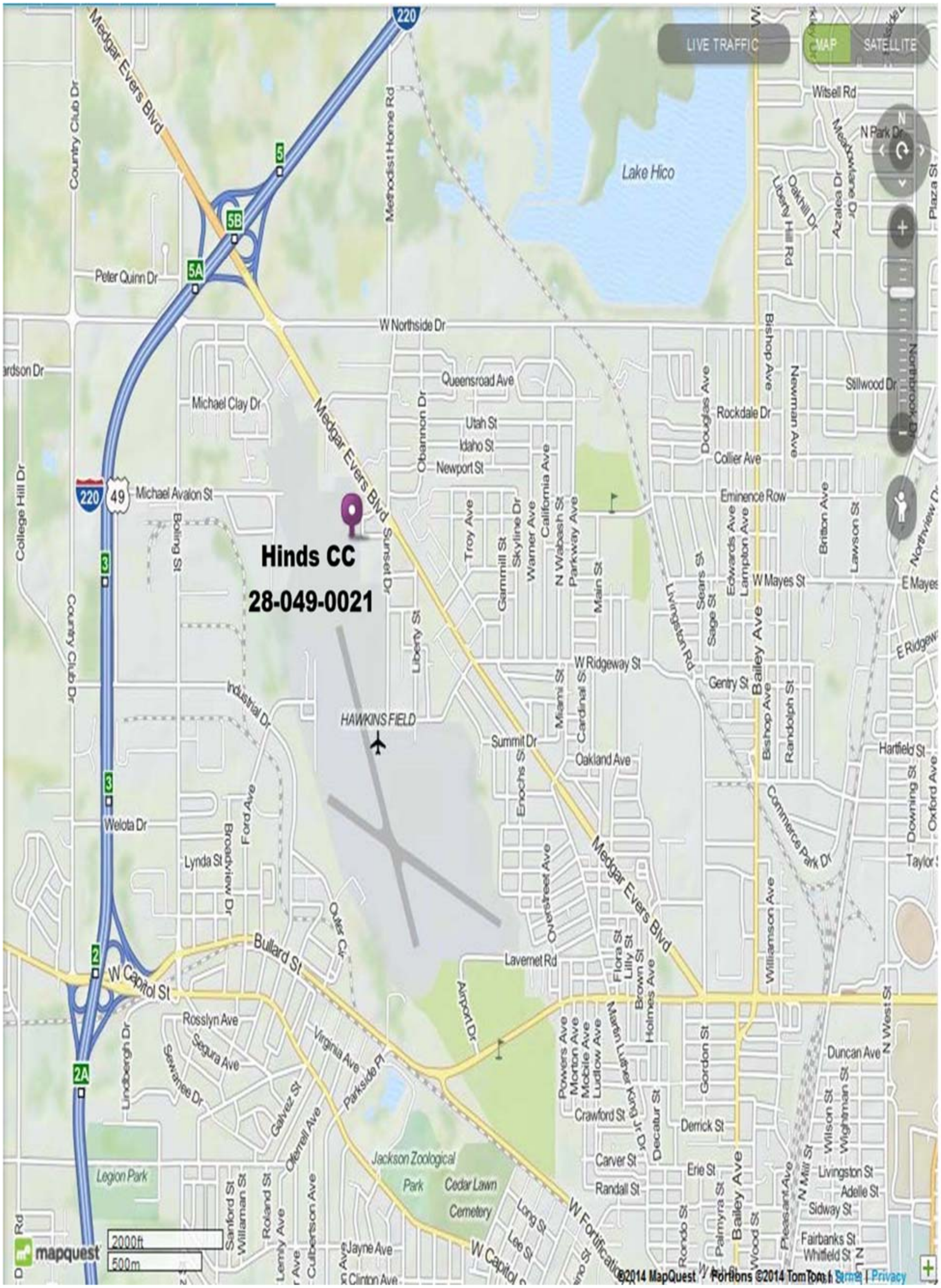
Hinds CC-North (2023)

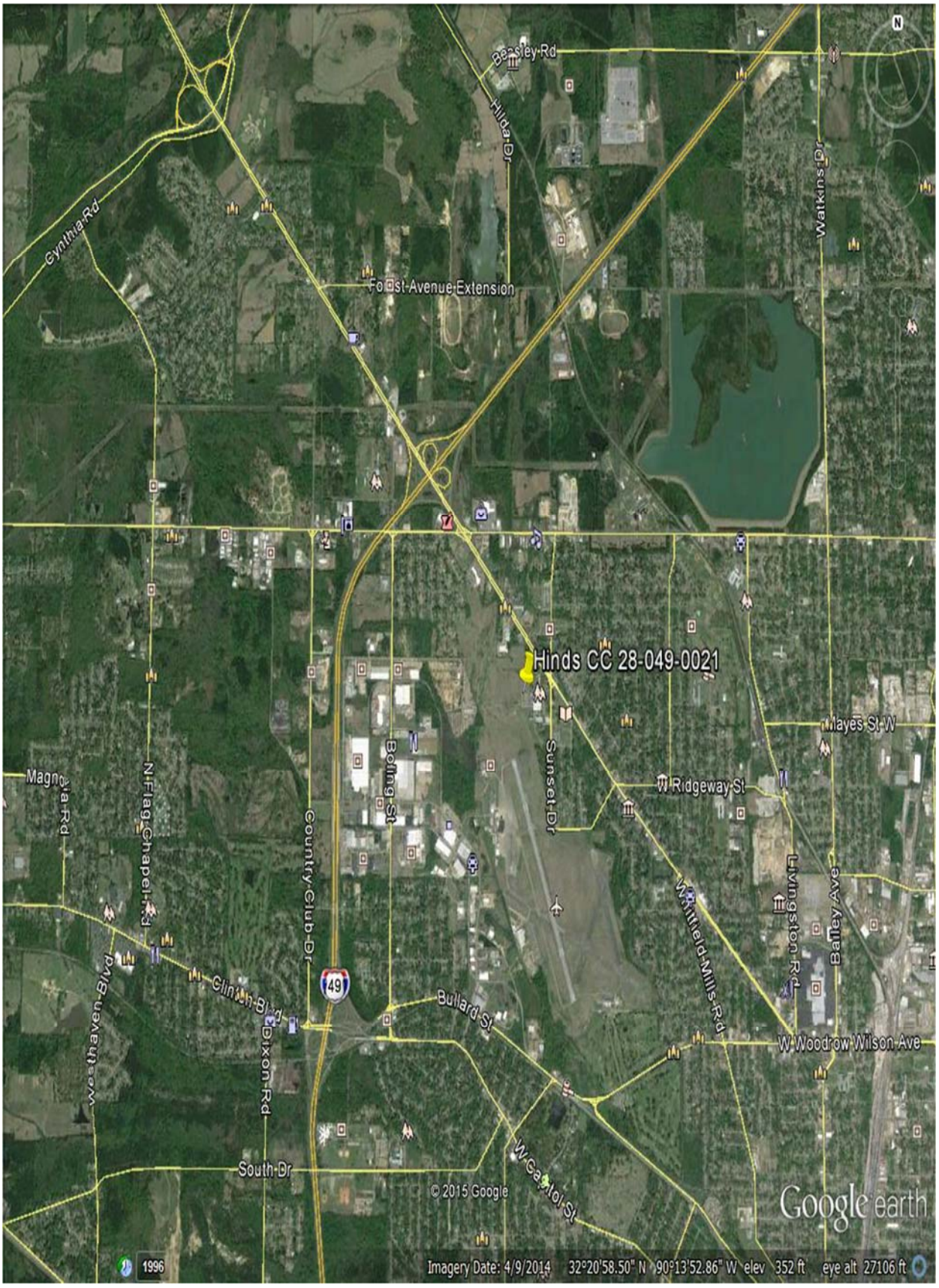
Hinds CC-South (2023)

Hinds CC-East (2023)

Hinds CC-West (2023)

Hinds CC-28-049-0021 (2023)


Hinds CC
28-049-0021
HAWKINS FIELD
Lake Hico
Medgar Evers Blvd
W Northside Dr
Michael Avalon St
Michael Clay Dr
Peter Quinn Dr
Country Club Dr
College Hill Dr
Methodist Home Rd
Queensroad Ave
Utah St
Idaho St
Newport St
Obannon Dr
Sunset Dr
Liberty St
Troy Ave
Gammill St
Skyline Dr
Warner Ave
California Ave
N Wabash St
Parkway Ave
Main St
Livingston Rd
Sears St
Sage St
Edwards Ave
Lampton Ave
Bailey Ave
Bishop Ave
Newman Ave
Douglas Ave
Rockdale Dr
Collier Ave
Eminence Row
W Mayes St
W Ridgeway St
Gentry St
Randolph St
Britton Ave
Lawson St
Stillwood Dr
Northbrook Dr
Witsell Rd
N Park Dr
Meadowlane Dr
Liberty Hill Rd
Oakhill Dr
Azalea Dr
Plaza St
Boling St
Industrial Dr
Summit Dr
Oakland Ave
Miami St
Cardinal St
Enochs St
Commerce Park Dr
Hartfield St
Downing St
Oxford Ave
Taylor
Welota Dr
Lynda St
Broadview Dr
Ford Ave
Outer Cir
Overstreet Ave
Lavernet Rd
Airport Dr
Bullard St
W Capitol St
Rosslyn Ave
Segura Ave
Sewanee Dr
Lindbergh Dr
Virginia Ave
Parkside Pl
Galvez St
Otterrell Ave
Powers Ave
Morton Ave
Mobile Ave
Ludlow Ave
Martin Luther King Jr Dr
Flora St
Lily St
Brown St
Holmes Ave
Decatur St
Gordon St
Williamson Ave
Duncan Ave
N West St
Crawford St
Derrick St
Carver St
Randall St
Erie St
Wilson St
Wightman St
Livingston St
Adelle St
Sidway St
Fairbanks St
Whitfield St
Pleasant Ave
N Mill St
Rondo St
Palmyra St
Wood St
Jackson Zoological Park
Cedar Lawn Cemetery
Legion Park
W Fortification St
Long St
Lee St
Jayne Ave
Clinton Ave
Sanford St
Willaman St
Roland St
Lemly Ave
Culbertson Ave
220
49
5
5B
5A
3
2
2A
LIVE TRAFFIC
MAP
SATELLITE
mapquest
2000ft
500m
©2014 MapQuest · Portions ©2014 TomTom | Terms | Privacy


Beasley Rd
Hilda Dr
Watkins Dr
Cynthia Rd
Forest Avenue Extension
Hinds CC 28-049-0021
Hayes St W
Sunset Dr
W Ridgeway St
Boling St
Country Club Dr
N Flag Chapel Rd
Magnolia Rd
Livingston Rd
Bailey Ave
Whitfield Mills Rd
Westhaven Blvd
Clinton Blvd
Dixon Rd
Bullard St
W Woodrow Wilson Ave
South Dr
W Capitol St
49
© 2015 Google
Google earth
1996
Imagery Date: 4/9/2014 32°20'58.50" N 90°13'52.86" W elev 352 ft eye alt 27106 ft

GULFPORT

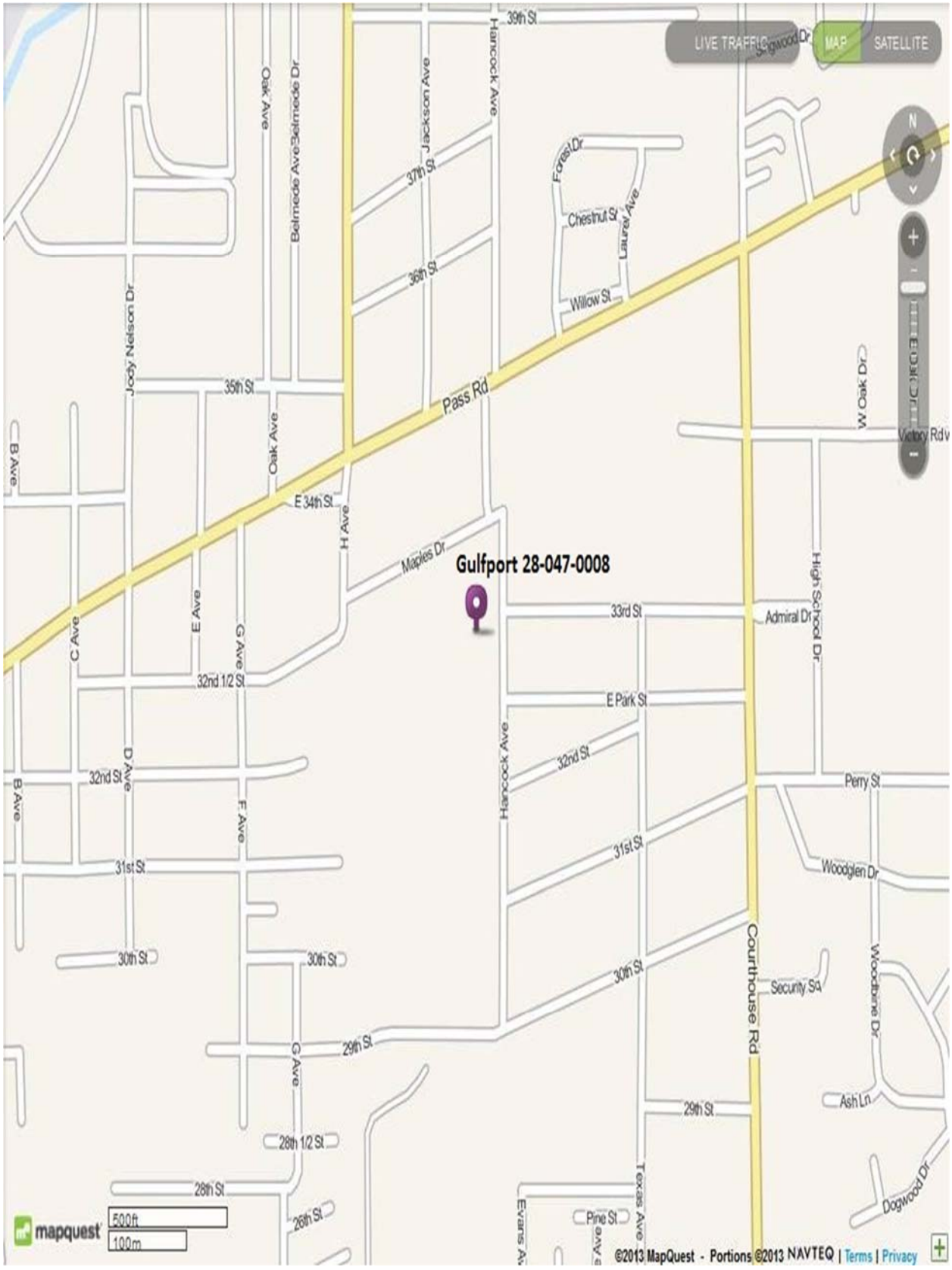
Gulfport-North (2023)

Gulfport-South (2023)

Gulfport-East (2023)

Gulfport-West (2023)

Gulfport-28-047-0008 (2023)


Gulfport 28-047-0008
Pass Rd
39th St
37th St
36th St
35th St
E 34th St
32nd 1/2 St
32nd St
31st St
30th St
29th St
28th 1/2 St
28th St
26th St
Jackson Ave
Hancock Ave
Oak Ave
Belmede Ave
Belmede Dr
Jody Nelson Dr
B Ave
C Ave
D Ave
E Ave
F Ave
G Ave
H Ave
Maples Dr
Forest Dr
Chestnut St
Laurel Ave
Willow St
W Oak Dr
Victory Rd
33rd St
Admiral Dr
High School Dr
E Park St
Perry St
Woodglen Dr
Courthouse Rd
Security Sq
Woodbine Dr
Ash Ln
Dogwood Dr
Texas Ave
Pine St
Evans Ave
LIVE TRAFFIC
MAP
SATELLITE
mapquest
500 ft
100 m
©2013 MapQuest - Portions ©2013 NAVTEQ | Terms | Privacy


Gulfport 28-047-0008
37th St
36th St
Chestnut St
Laurel Ave
Forest Dr
Jackson Ave
Washington Ave
Belmede Dr
Oak Ave
Jody Nelson Dr
Pass Rd
E 34th St
H Ave
Maples Cir
E Ave
33rd St
Courthouse Rd
W Oak Dr
High School Dr
Admiral Dr
32nd 1/2 St
E Park St
32nd St
31st St
D Ave
30th 1/2 St
F Ave
Hancock Ave
30th St
29th St
© 2013 Google
Google earth
Imagery Date: 11/10/2011 30°23'25.13" N 89°02'58.19" W elev 31 ft eye alt 4238 ft

WAVELAND

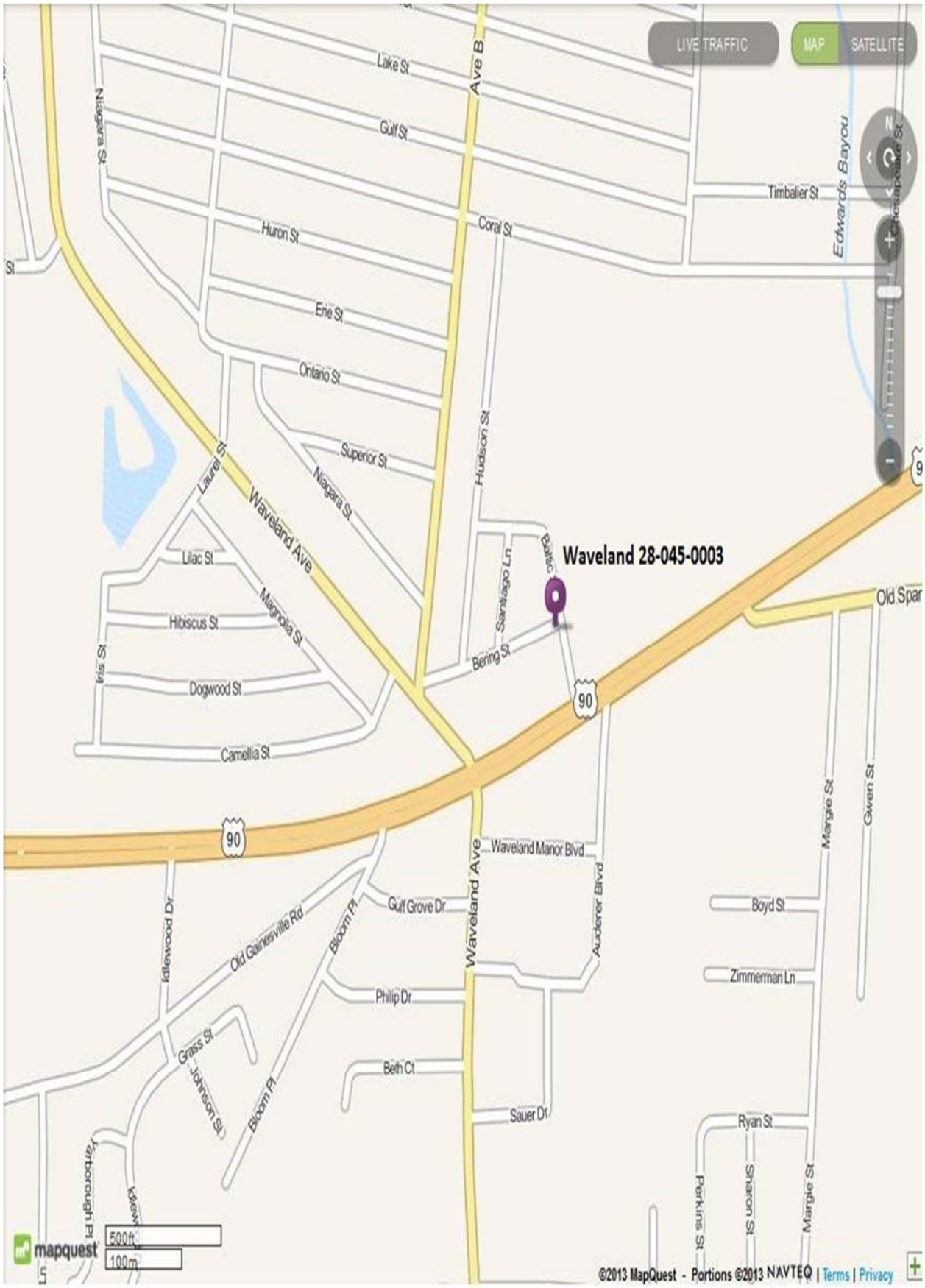
Waveland-North (2023)

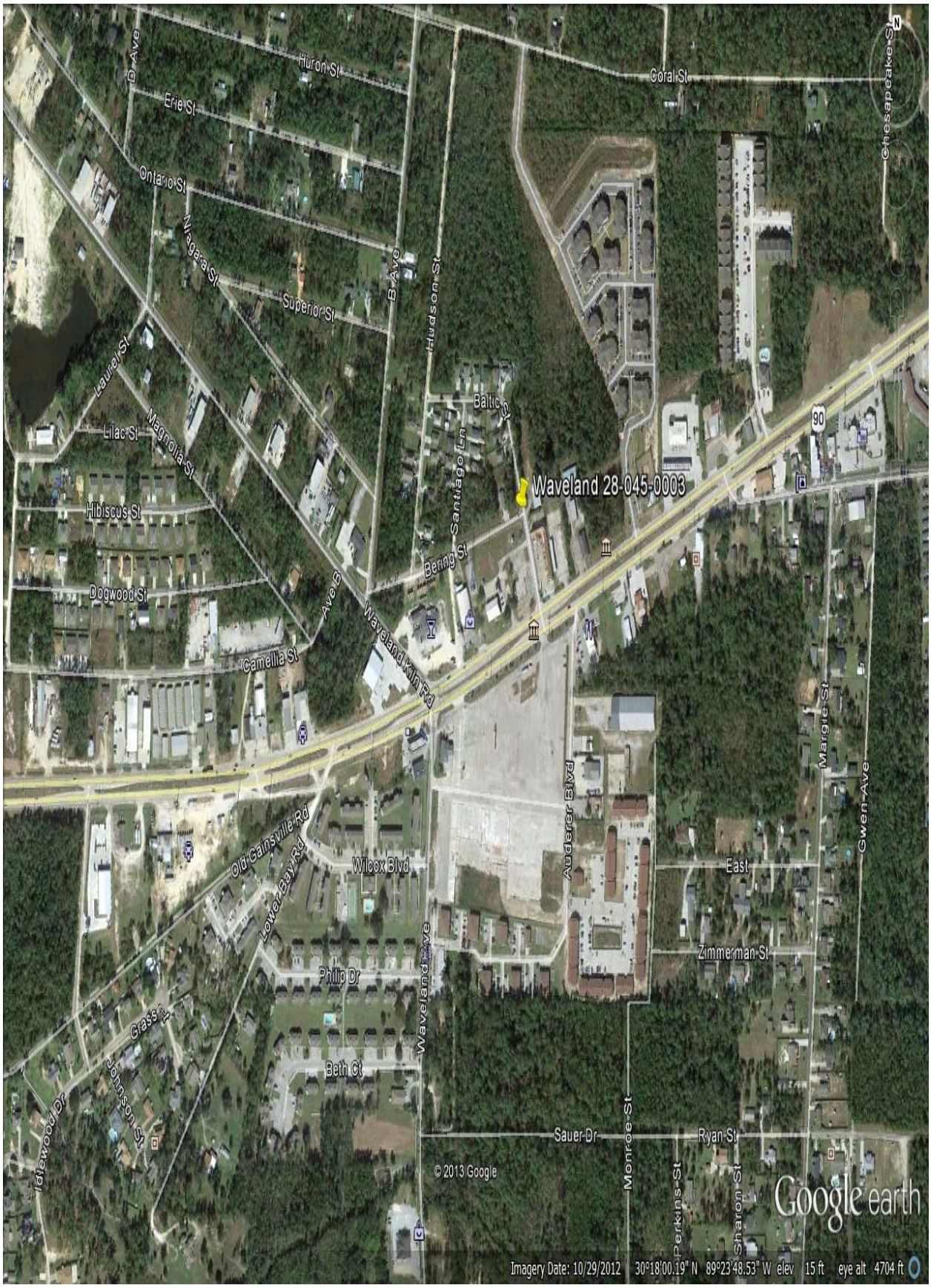
Waveland-South (2023)

Waveland-East (2023)

Waveland-West (2023)

Waveland-28-045-0003 (2023)


LIVE TRAFFIC
MAP
SATELLITE
Waveland 28-045-0003
Lake St
Gulf St
Huron St
Erie St
Ontario St
Superior St
Niagara St
Lilac St
Hibiscus St
Dogwood St
Camellia St
Iris St
Laurel St
Waveland Ave
Ave B
Hudson St
Santiago Ln
Bering St
Timbalier St
Coral St
Edwards Bayou
Chesapeake St
Old Spar
90
Waveland Manor Blvd
Gulf Grove Dr
Philip Dr
Beth Ct
Sauer Dr
Auderer Blvd
Boyd St
Zimmerman Ln
Ryan St
Margie St
Gwen St
Perkins St
Sharon St
Old Gainesville Rd
Bloom Pl
Grass St
Johnson St
Idlewood Dr
Yarborough Pl
mapquest
500ft
100m
©2013 MapQuest - Portions ©2013 NAVTEQ | Terms | Privacy


Waveland 28-045-0003
Huron St
Erie St
Ontario St
Niagara St
Superior St
Coral St
Chesapeake St
D Ave
B Ave
Hudson St
Laurel St
Lilac St
Magnolia St
Hibiscus St
Dogwood St
Camellia St
Baltic St
Santiago Ln
Bering St
Ave B
Waveland Kiln Rd
90
Auderer Blvd
Margie St
Gwen Ave
East
Zimmerman St
Old Gainsville Rd
Lower Bay Rd
Wilcox Blvd
Philip Dr
Waveland Ave
Beth Ct
Grass Ln
Johnson St
Idlewood Dr
Sauer Dr
Ryan St
Monroe St
Perkins St
Sharon St
© 2013 Google
Google earth
Imagery Date: 10/29/2012 30°18'00.19" N 89°23'48.53" W elev 15 ft eye alt 4704 ft

PASCAGOULA

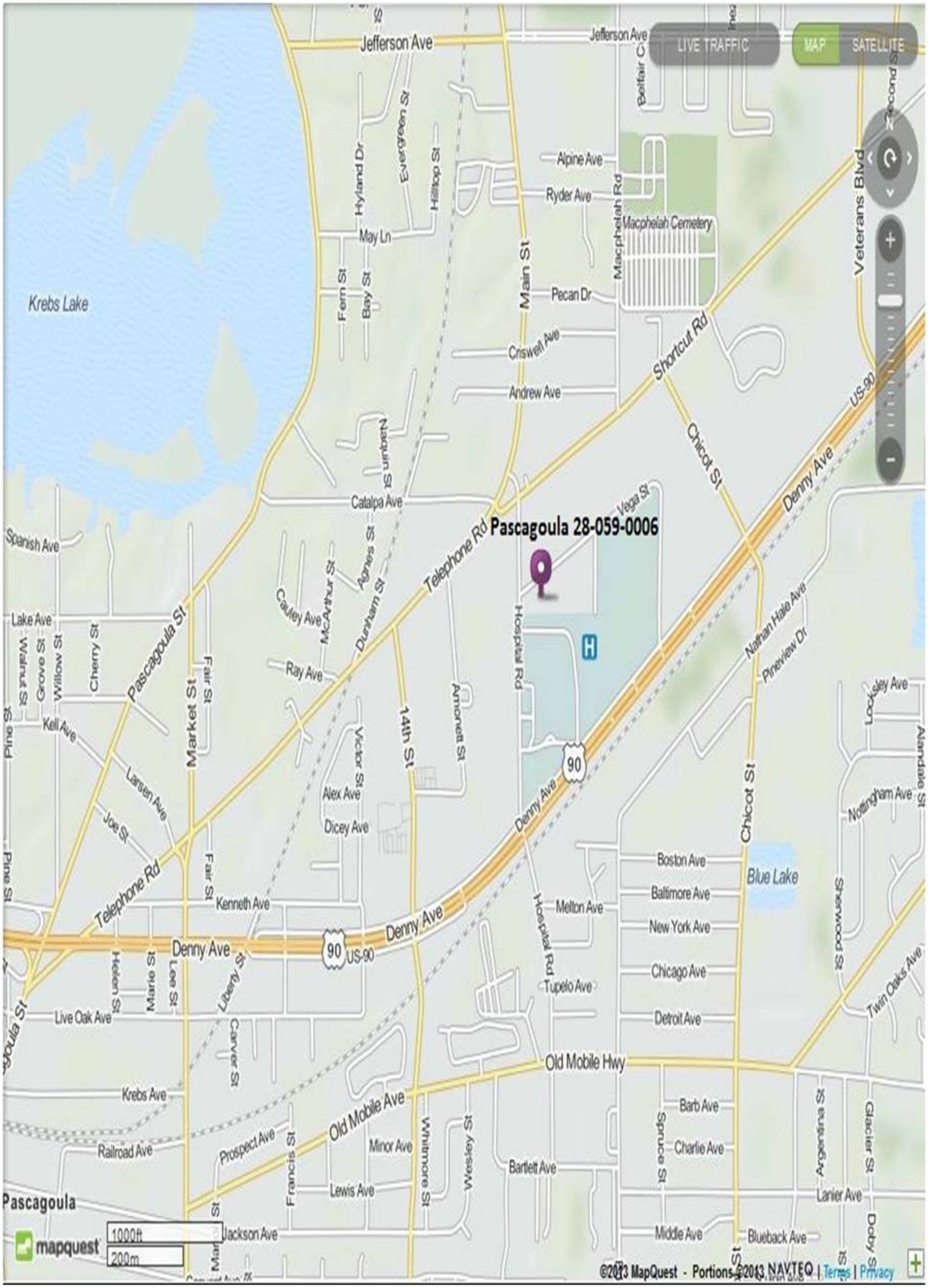
Pascagoula-North (2023)

Pascagoula-South (2023)

Pascagoula-East (2023)

Pascagoula-West (2023)

Pascagoula-28-059-0006 (2023)


Pascagoula 28-059-0006
LIVE TRAFFIC
MAP
SATELLITE
Jefferson Ave
Krebs Lake
Hyland Dr
Evergreen St
Hilltop St
May Ln
Fern St
Bay St
Main St
Alpine Ave
Ryder Ave
Macphelah Rd
Macphelah Cemetery
Pecan Dr
Criswell Ave
Andrew Ave
Shortcut Rd
Veterans Blvd
Chicot St
US-90
Denny Ave
Naquin St
Catalpa Ave
Vega St
Telephone Rd
Spanish Ave
Agnes St
McArthur St
Cauley Ave
Dunham St
Hospital Rd
Lake Ave
Walnut St
Grove St
Willow St
Cherry St
Pascagoula St
Market St
Fair St
Ray Ave
Nathan Hale Ave
Pineview Dr
Kell Ave
Larsen Ave
Joe St
Pine St
Victor St
14th St
Amonett St
Alex Ave
Dicey Ave
90
Nottingham Ave
Alandale St
Boston Ave
Baltimore Ave
Blue Lake
Kenneth Ave
Melton Ave
New York Ave
Chicago Ave
Helen St
Marie St
Lee St
Liberty St
Tupelo Ave
Sherwood St
Twin Oaks Ave
Live Oak Ave
Carver St
Detroit Ave
Old Mobile Hwy
Krebs Ave
Old Mobile Ave
Railroad Ave
Prospect Ave
Francis St
Minor Ave
Whitmore St
Wesley St
Barb Ave
Spruce St
Charlie Ave
Argentina St
Glacier St
Bartlett Ave
Lewis Ave
Lanier Ave
Pascagoula
Jackson Ave
Middle Ave
Blueback Ave
Doby St
mapquest
1000ft
200m
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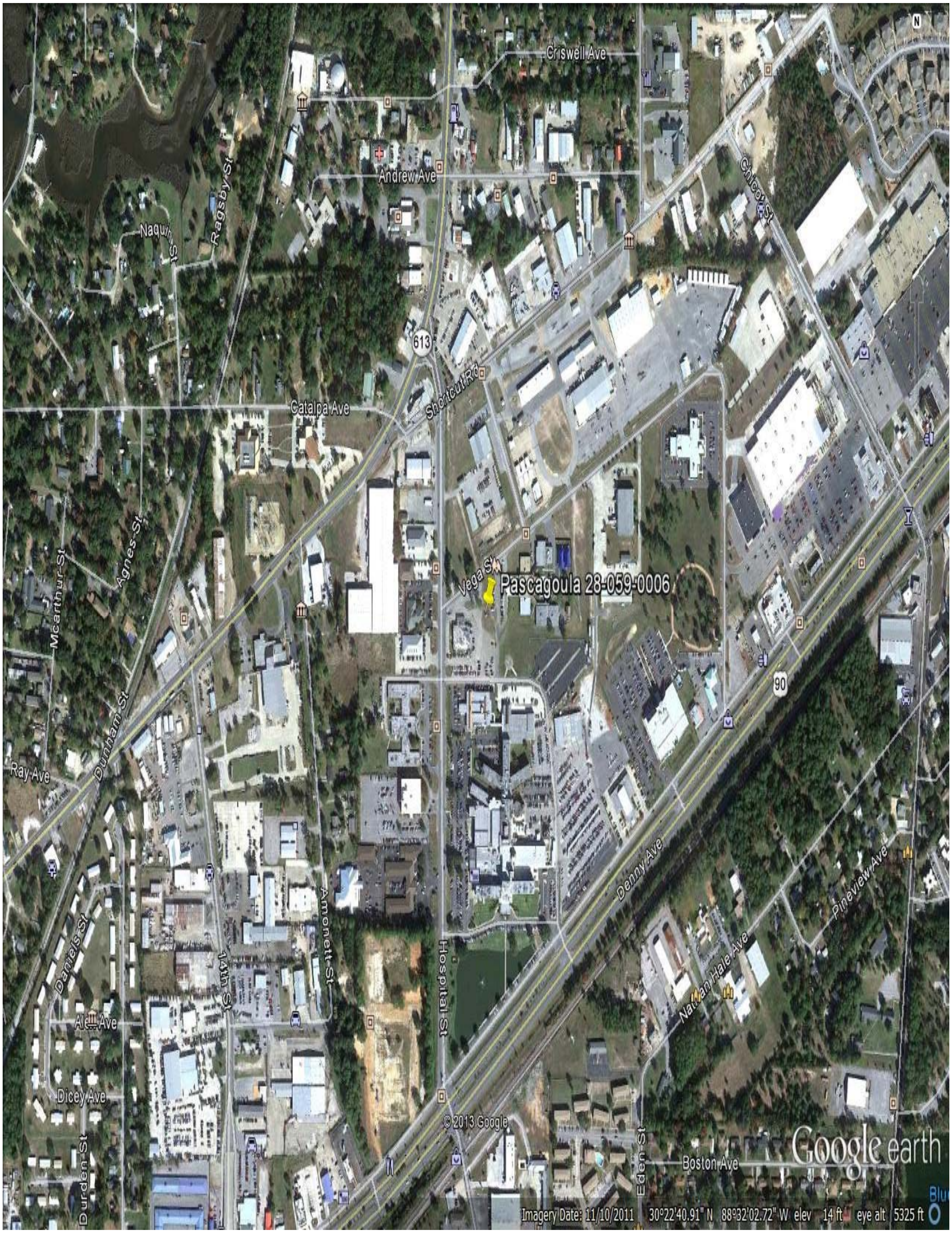

Criswell Ave
Andrew Ave
Ragsby St
Naquin St
Chicot St
613
Shortcut Rd
Catalpa Ave
Agnes St
Mcarthur St
Vega St
Pascagoula 28-059-0006
90
Dunham St
Ray Ave
Denny Ave
Pineview Ave
Amonett St
Hospital St
14th St
Daniels St
Nathan Hale Ave
Dicey Ave
Durden St
Eden St
Boston Ave
© 2013 Google
Google earth
Imagery Date: 11/10/2011 30°22'40.91" N 88°32'02.72" W elev 14 ft eye alt 5325 ft

HATTIESBURG

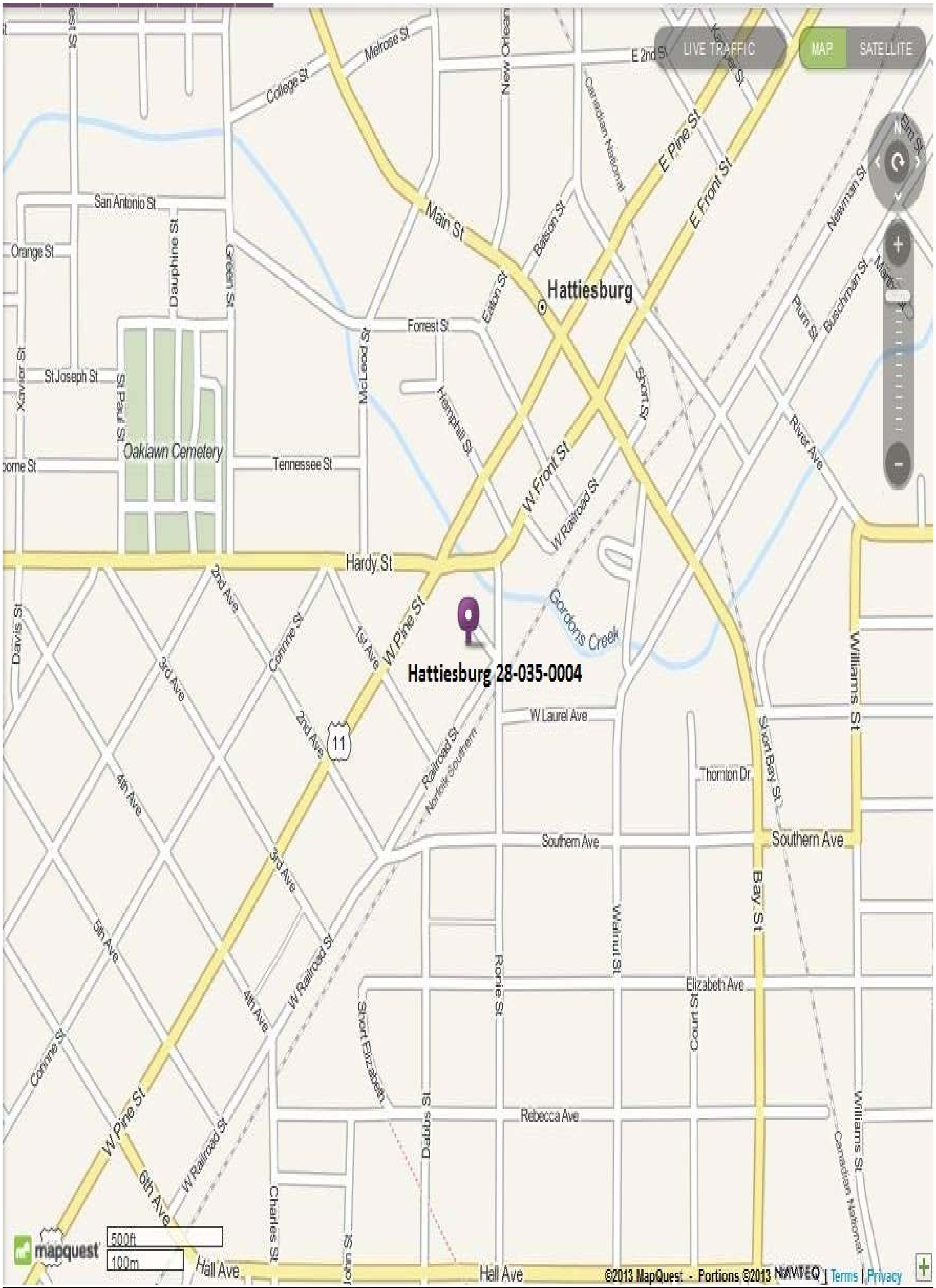
Hattiesburg-North (2023)

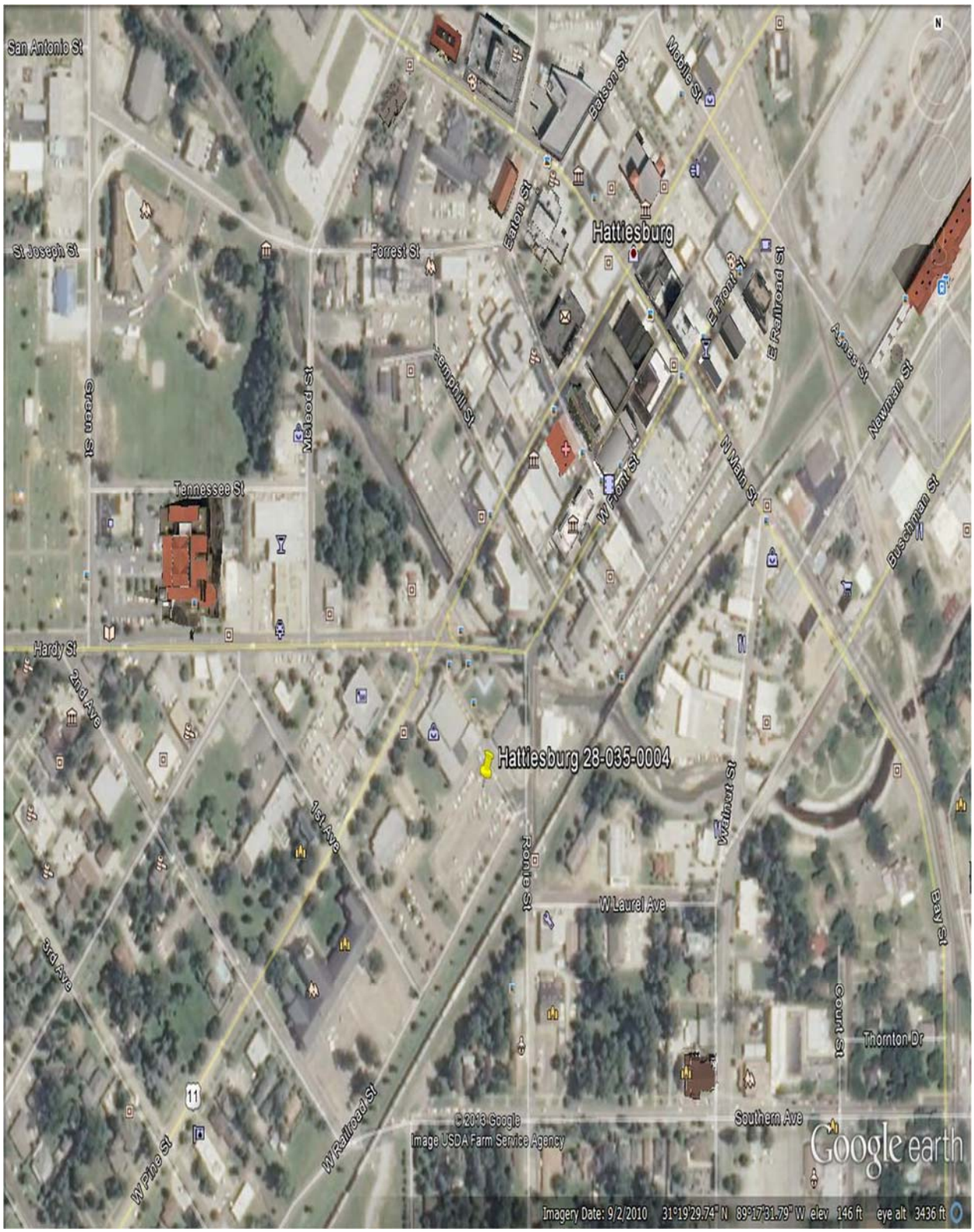
Hattiesburg-South (2023)

Hattiesburg-East (2023)

Hattiesburg-West (2023)

Hattiesburg-28-035-0004 (2023)


Hattiesburg
Hattiesburg 28-035-0004
Oaklawn Cemetery
Gordons Creek
Hardy St
W Pine St
E Pine St
E Front St
W Front St
Main St
Forrest St
Tennessee St
San Antonio St
Orange St
St Joseph St
Dauphine St
Green St
St Paul St
Xavier St
Davis St
McLeod St
Hemphill St
Eaton St
Batson St
Short St
College St
Melrose St
New Orleans
E 2nd St
Canadian National
Newman St
Buschman St
Plum St
River Ave
Elm St
W Railroad St
Railroad St
Norfolk Southern
W Laurel Ave
Thornton Dr
Short Bay St
Williams St
Southern Ave
Bay St
Walnut St
Ronie St
Court St
Elizabeth Ave
Short Elizabeth
Dabbs St
Rebecca Ave
Charles St
John St
Hall Ave
Corinne St
1st Ave
2nd Ave
3rd Ave
4th Ave
5th Ave
6th Ave
11
LIVE TRAFFIC
MAP
SATELLITE
mapquest
500ft
100m
©2013 MapQuest - Portions ©2013 NAVTEQ | Terms | Privacy


San Antonio St
St. Joseph St
Forrest St
Eaton St
Hattiesburg
Edison St
Mobile St
E Front St
E Railroad St
Agnes St
Newman St
Campbell St
Mabson St
Green St
Tennessee St
W Front St
W Main St
Buschman St
Hardy St
2nd Ave
Hattiesburg 28-035-0004
1st Ave
Rouse St
Walnut St
W Laurel Ave
Bay St
3rd Ave
Court St
Thornton Dr
Southern Ave
W Railroad St
W Pine St
11
© 2013 Google
Image USDA Farm Service Agency
Google earth
Imagery Date: 9/2/2010 31°19'29.74" N 89°17'31.79" W elev 146 ft eye alt 3436 ft

10.0 US Census Information

Annual Estimates of the Resident Population for Metropolitan Statistical Areas in the United States and Puerto Rico:			
Geographic Area	April 1, 2020 Estimates Base	Population Estimate (as of July 1)	
		2020	2021
United States	**331,449,281**	**331,501,080**	**331,893,745**
Gulfport-Biloxi, MS Metro Area	416,259	416,312	418,082
Hattiesburg, MS Metro Area	172,231	172,287	173,078
Jackson, MS Metro Area	591,978	590,626	587,202
Memphis, TN-MS-AR Metro Area	1,337,779	1,337,311	1,336,103

Note: The estimates are developed from a base that incorporates the 2020 Census, Vintage 2020 estimates, and (for the U.S. only) 2020 Demographic Analysis estimates. For population estimates methodology statements, see http://www.census.gov/programs-surveys/popest/technical-documentation/methodology.html. The estimates feature geographic boundaries from the Vintage 2020 estimates series; the geographic boundaries for these 2021 population estimates are as of January 1, 2020. The Office of Management and Budget's statistical area delineations for metropolitan, micropolitan, and combined statistical areas, as well as metropolitan divisions, are those issued by that agency in March 2020.

Suggested Citation:

Annual Estimates of the Resident Population for Metropolitan Statistical Areas in the United States and Puerto Rico: April 1, 2020 to July 1, 2021 (CBSA-MET-EST2021-POP)

Source: U.S. Census Bureau, Population Division

Release Date: March 2022

11.0 Regional Monitoring Agreement

LEE HARRIS
MAYOR

SHELBY COUNTY HEALTH DEPARTMENT

Public Health
Prevent. Promote. Protect.
Shelby County Health Department

MICHELLE A. TAYLOR, MD DRPH, MPA
HEALTH DIRECTOR & OFFICER

May 5, 2023

Ms. Michelle Walker Owenby, Air Director
Tennessee Department of Environment and Conservation Air Pollution Control Division
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Ave., 15th Floor
Nashville, TN 37243-1531

Ms. Melissa Fortenberry, Air Division Chief
Mississippi Department of Environmental Quality
Office of Pollution Control
Air Division
P.O. Box 2261
Jackson, MS 39201

Mr. David Witherow, P.E., Associate Director
Office of Air Quality
Arkansas Department of Energy and Environment
5301 Northshore Dr.
North Little Rock, AR 72118-5317

Dear All,

In accordance with the provisions of the Memorandum of Agreement (MOA) signed in May and June of 2008 between the Shelby County Health Department (SCHD), Mississippi Department of Environmental Quality (MDEQ) and the Arkansas Department of Energy and Environment - Division of Environmental Quality (DEQ), this letter serves as a notification that each respective agency in the MOA have been contacted by the SCHD and no changes have been made in the current monitoring network. With this MOA, all agencies are meeting EPA monitoring requirements.

If changes to the network will or will not be made in the future, please notify the respective agencies of your intent.

If you have any questions, please call me at (901) 222-9193.

Sincerely,

Kasia S. Alexander

Kasia Smith-Alexander
Bureau Director, Environmental Health Services
Shelby County Health Department

Mission
To promote, protect and improve the health of ALL in Shelby County.

814 Jefferson Avenue♦ Memphis, TN 38105♦ 901 222-9000♦ www.shelbytnhealth.com

MEMORANDUM OF AGREEMENT ON AIR QUALITY MONITORING FOR CRITERIA POLLUTANTS FOR THE MEMPHIS, TN- MS- AR METROPOLITAN STATISTICAL AREA (MSA)

Participating Agencies:

Shelby County Health Department (SCHD)
Air Pollution Control Program

Mississippi Department of Environmental Quality (MDEQ)
Office of Pollution Control, Air Division

Arkansas Department of Energy and Environment
Division of Environmental Quality (DEQ)

PURPOSE / OBJECTIVE / GOALS

The purpose of this Memorandum of Agreement (MOA) is to inform the entities of the Memphis, Tennessee-Mississippi-Arkansas Metropolitan Statistical Area of monitoring network changes. The MOA between SCHD, MDEQ, and DEQ is to collectively meet United States Environmental Protection Agency (EPA) minimum monitoring requirements for particles of an aerodynamic diameter of 10 micrometers and less ($PM_{2.5}$), and ozone; as well as other criteria pollutants air quality monitoring deemed necessary to meet the needs of the MSA as determined reasonable by all parties. This MOA will formalize and reaffirm the collective agreement in order to provide adequate criteria pollutant monitoring for the Memphis, TN-MS-AR MSA as required by 40 CFR 58 Appendix D, Section 2, (e).

$PM_{2.5}$ MSA monitoring network include:

County	Federal Referenced Method $PM_{2.5}$	Federal Equivalent Method $PM_{2.5}$	Continuous $PM_{2.5}$	Speciation $PM_{2.5}$	Collocated $PM_{2.5}$
Shelby County, TN **SCHD**	**4** (includes 2 at Alabama, 1 at NCore, and 1 at the Near Road station)	1		1	2
Crittenden County, AR **DEQ**	1		1		
DeSoto County, MS **MDEQ**		1			

Criteria Air Pollutant MSA monitoring network include:

County	PM_{10}	$PM_{10-2.5}$	O_3	$NO_x/NOy/NO/NO_2$	CO	SO_2
Shelby County, TN **SCHD**	2 (TEOM at Alabama Ave. and T640x at NCore)	1	3	3 (includes 1 NO_x/NO_2 at the Near Road Station, 1 NO/NO_y at NCore/PAMS, 1 true NO_2 at NCore/PAMS)	2 (includes 1 trace at NCore and 1 at the Near Road Station)	1 (trace at NCore)
Crittenden County, AR **DEQ**			1	1		
DeSoto County, MS **MDEQ**			1			

RESPONSIBILITIES / ACTIONS

Each of the parties to this Agreement is responsible for ensuring that its obligations under the MOA are met. As conditions warrant, the affected agencies may conduct telephone conference calls, meetings, or other communications to discuss monitoring activities for the MSA. Each affected agency shall inform the other affected agencies via telephone or email of any monitoring changes occurring within its jurisdiction of the MSA at its earliest convenience, after learning of the need for the change or making the changes. Such unforeseen changes may include evictions from monitoring sites, destruction of monitoring sites due to natural disasters, or any occurrences that result in an extended (greater than one quarter) or permanent change in the monitoring network.

LIMITATIONS

- All commitments made in this MOA are subject to the availability of appropriated funds and each agency's budget priorities. Nothing in this MOA obligates SCHD, MDEQ, or DEQ to expend appropriations or to enter into any contract, assistance agreement, interagency agreement or other financial obligation.

- This MOA is neither a fiscal nor a funds obligation document. Any endeavor involving reimbursement or contribution of funds between parties to this agreement will be handled in accordance with applicable laws, regulations, and procedures, and will be subject to separate agreements that will be affected in writing by representatives of the parties.

- This MOA does not create any right or benefit enforceable by law or equity against SCHD, MDEQ, or DEQ, their officers or employees, or any other person. This MOA does not apply to any entity outside SCHD, MDEQ, or DEQ.

- No proprietary information or intellectual property is anticipated to arise out of this MOA.

TERMINATION

This Memorandum of Agreement may be revised upon the mutual consent of SCHD, MDEQ and DEQ. Each party reserves the right to terminate this MOA. A thirty (30) day written notice must be given prior to the date of termination.

12.0 Equipment List

Inventory Number	Item	Manufacturer	Type	Serial Number	Condition	Purchase Date
OZONE						
89589	OZONE ANALYZER	API	400E	159	Decommissioned 5/9/2023	6/1/2003
90741	OZONE ANALYZER	API	400E	1099	Fair	9/1/2006
90743	OZONE ANALYZER	API	400E	1101	Decommissioned 5/9/2023	9/1/2006
91211	OZONE ANALYZER	API	400E	1563	Decommissioned 5/9/2023	12/31/2007
91212	OZONE ANALYZER	API	400E	1098	Fair	9/1/2006
92174	OZONE ANALYZER	API	T400	131	Fair	6/14/2011
92175	OZONE ANALYZER	API	T400	132	Decommissioned 5/9/2023	6/14/2011
93180	OZONE ANALYZER	API	T400	1858	Good	6/17/2015
93181	OZONE ANALYZER	API	T400	1857	Good	6/17/2015
93182	OZONE ANALYZER	API	T400	1856	Fair	6/17/2015
93493	OZONE ANALYZER	API	T400	3304	Good	6/16/2017
93494	OZONE ANALYZER	API	T400	3305	Good	6/16/2017
93495	OZONE ANALYZER	API	T400	3306	Good	6/16/2017
93846	OZONE ANALYZER	API	T400	4206	Good	8/20/2018
93847	OZONE ANALYZER	API	T400	4207	Good	8/20/2018
94473	OZONE ANALYZER	API	T400	6496	Good	6/24/2021
94581	OZONE ANALYZER	API	T400	6771	Good	3/16/2022
94580	OZONE ANALYZER	API	T400	6772	Good	3/16/2022
94581	OZONE ANALYZER	API	T400	6771	Good	3/16/2022
94799	OZONE ANALYZER	API	T400	7088	Good	2/22/2023
94802	OZONE ANALYZER	API	T400	7089	Good	2/22/2023

SO2						
90923	SO2 ANALYZER	API	100E	68	Decommissioned 5/9/2023	6/1/2007
92019	SO2 ANALYZER	API	100EU	128	Decommissioned 5/9/2023	6/15/2010
93620	SO2 ANALYZER	API	T100U	279	Good	7/12/2017
93621	SO2 ANALYZER	API	T100U	280	Good	7/12/2017
94472	SO2 ANALYZER	API	T100U	435	Good	1/2023
NOy/NO2/NOx/NO						
92990	NOx ANALYZER	API	T200	1655	Fair	10/31/2014
94800	NOx ANALYZER	API	T200	8075	Good	2/2023
93194	NOy ANALYZER	API	T200U	235	Fair	10/21/2015
94790	NOy ANALYZER	API	T200U	489	Good	2/2023
CO						
93615	CO ANALYZER	API	T300U	379	Fair	6/22/2017
94789	CO ANALYZER	API	T300U	618	Good	1/2023
PARTICULATE SAMPLERS						
91054	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B220020708	Fair	9/14/2007
91055	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B220030708	Fair	9/14/2007
91056	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B220040708	Fair	9/14/2007
91057	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B220050708	Fair	9/14/2007
91142	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B22026	Fair	11/14/2007
91143	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B2202679	Fair	11/14/2007
91144	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B220270709	Fair	11/14/2007
91794	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B225390905	Good	6/12/2009
92143	SEQUENTIAL AIR SAMPLER	Thermo	2025	2025B227831104	Good	4/15/2011
92144	SEQUENTIAL AIR SAMPLER	R&P	2025	2025B227481104	Good	4/15/2011
93390	CONTINUOUS PARTICULATE SAMPLER	API	T640	105	Good	1/20/2017

93391	CONTINUOUS PARTICULATE SAMPLER	API	T640	111	Good	1/20/2017
93392	CONTINUOUS PARTICULATE SAMPLER	API	T640	107	Good	1/20/2017
93393	CONTINUOUS PARTICULATE SAMPLER	API	T640	108	Good	1/20/2017
93394	CONTINUOUS PARTICULATE SAMPLER	API	T640	110	Good	1/20/2017
93395	CONTINUOUS PARTICULATE SAMPLER	API	T640	109	Good	1/20/2017
93396	CONTINUOUS PARTICULATE SAMPLER	API	T640	106	Good	1/20/2017
93397	CONTINUOUS PARTICULATE SAMPLER	API	T640	104	Good	1/20/2017
93808	CONTINUOUS PARTICULATE SAMPLER	API	T640	60-S	Good	Jun-18
93676	CONTINUOUS PARTICULATE SAMPLER	API	T640X	286	Good	12/11/2017
-	CONTINUOUS PARTICULATE SAMPLER	API	T640X	-	Good	2020
FLOW DEVICES						
91790	FLOW METER	BGI	Deltacal	781	Good	6/12/2009
92219	FLOW METER	BGI	Deltacal	1051	Good	9/15/2011
92220	FLOW METER	BGI	Deltacal	1052	Good	9/15/2011
93370	FLOW METER	BIOS	220-H	151292	Good	9/27/2016
93371	FLOW METER	BIOS	220-L	146603	Good	9/27/2016
93652	FLOW METER	BGI	Tetracal	156675	Good	10/24/2017
93674	FLOW METER	BGI	Deltacal	158052	Good	1/9/2018
N/A	FLOW METER	BGI	Tetracal	600	Good	10/31/2009
N/A	FLOW METER	BGI	Tetracal	603	Good	10/31/2009
94036	FLOW METER	Alicat	Whisper	208693	Good	1-22-2020
94037	FLOW METER	Alicat	Whisper	208694	Good	1-22-2020
94791	FLOW METER	BGI	TetraCal	206970	Good	11/2023
94797	FLOW METER	BGI	TetraCal	206971	Good	11/2023

DATA LOGGERS						
91050	DATA LOGGER	ESC	8832	A2059	Fair	9/14/2007
91051	DATA LOGGER	ESC	8832	A2058	Fair	9/14/2007
91134	DATA LOGGER	ESC	8832	A2020	Fair	11/14/2007
91135	DATA LOGGER	ESC	8832	A2021	Decommissioned 5/9/2023	11/14/2007
91136	DATA LOGGER	ESC	8832	A2040	Fair	11/14/2007
91137	DATA LOGGER	ESC	8832	A2041	Fair	11/14/2007
91788	DATA LOGGER	ESC	8832	A3222K	Fair	6/12/2009
91789	DATA LOGGER	ESC	8832	A3223K	Good	6/12/2009
92942	DATA LOGGER	ESC	8832	A4838K	Fair	7/1/2014
92943	DATA LOGGER	ESC	8832	A4837K	Good	7/1/2014
92944	DATA LOGGER	ESC	8832	A4836K	Good	7/1/2014
92945	DATA LOGGER	ESC	8832	A4839K	Good	7/1/2014
92949	DATA LOGGER	ESC	8832	A4838K	Good	7/1/2014
94072	DATA LOGGER	Agilaire	8872	0923	Good	7-24-2019
94077	DATA LOGGER	Agilaire	8872	0924	Good	7-24-2019
94078	DATA LOGGER	Agilaire	8872	0925	Good	7-24-201
94234	DATA LOGGER	Agilaire	8872	1011	Good	4/30/2020
94233	DATA LOGGER	Agilaire	8872	1110	Good	4/30/2020
94234	DATA LOGGER	Agilaire	8872	1011	Good	4/30/2020
94235	DATA LOGGER	Agilaire	8872	1009	Good	4/30/2020
94783	DATA LOGGER	Agilaire	8872	1326	Good	12/2022
94784	DATA LOGGER	Agilaire	8872	1325	Good	12/2022
94785	DATA LOGGER	Agilaire	8872	1329	Good	12/2022
94786	DATA LOGGER	Agilaire	8872	1328	Good	12/2022
94787	DATA LOGGER	Agilaire	8872	1327	Good	12/2022

CALIBRATORS						
91872	Level 2 Bench	Thermo	49i	092000067	Good	
92084	CALIBRATOR	API	T700U	55	Fair	10/31/2017
92849	CALIBRATOR	API	T700U	167	Fair	3/1/2014
92850	CALIBRATOR	API	T700	814	Fair	3/1/2014
93385	CALIBRATOR	API	T703U	122	Good	12/27/2017
93386	CALIBRATOR	API	T703U	123	Good	12/27/2017
93387	CALIBRATOR	API	T703U	3010	Good	12/30/2016
93490	CALIBRATOR	API	T703U	180	Good	6/17/2017
93491	CALIBRATOR	API	T703U	181	Good	6/17/2017
93492	CALIBRATOR	API	T703U	182	Good	6/17/2017
93656	CALIBRATOR	API	T703U	190	Good	11/17/2017
93675	CALIBRATOR	API	T703U	194	Good	12/5/2017
93677	CALIBRATOR	API	T700	3732	Good	1/8/2018
93852	CALIBRATOR	API	T703U	230	Good	8/8/2018
93853	CALIBRATOR	API	T703U	231	Good	Aug-18
94470	CALIBRATOR	API	T703U	359	Good	7/12/2021
94471	CALIBRATOR	API	T703U	360	Good	7/12/2021
94474	CALIBRATOR	API	T700U	694	Good	7/12/2021
ZERO AIR UNITS						
N/A	ZERO AIR UNIT	API	701	1875	Fair	
83371	ZERO AIR UNIT	Sabio	2020	5930537	Decommissioned	5/1/1993
89694	ZERO AIR UNIT (Audit)	Sabio	2020	2440703	Fair	8/1/2003
91623	ZERO AIR UNIT	API	701-H	2839	Fair	12/12/2008
92435	ZERO AIR UNIT	Sabio	2020	04160912D	Decommissioned 5/9/2023	8/17/2012

92436	ZERO AIR UNIT	Sabio	2020	-	Decommissioned 5/9/2023	8/17/2012
92437	ZERO AIR UNIT	Sabio	2020	04170912D	Fair	8/17/2012
92486	ZERO AIR UNIT	Sabio	2020	04140912D	Fair	8/17/2012
92487	ZERO AIR UNIT	Sabio	2020	04130912D	Decommissioned 5/9/2023	8/17/2012
93388	ZERO AIR UNIT	API	701H	1653	Good	1/20/2017
93389	ZERO AIR UNIT	API	701H	1654	Good	1/20/2017
93496	ZERO AIR UNIT	API	701H	1684	Good	6/16/2017
93848	ZERO AIR UNIT	API	701H	1744	Good	8/1/2018
93849	ZERO AIR UNIT	API	701H	1745	Good	8/1/2018
93916	ZERO AIR UNIT	API	701	1611	Good	2/1/2019
93917	ZERO AIR UNIT	API	701	1610	Good	2/1/2019
93915	ZERO AIR UNIT	API	701	1609	Good	2/1/2019
94582	ZERO AIR UNIT	API	701H	978	Good	2/2023
94798	ZERO AIR UNIT	API	701H	1074	Good	2/2023
94801	ZERO AIR UNIT	API	701	2334	Good	2/2023
Meteorology Equipment						
Inventory Number	Item	Manufacturer	Type	Serial Number	Condition	Purchase Date
89576	Translator	MetOne	-	C1734	Fair	5/1/2003
89684	WEATHER STATION	-	-	C1735	Fair	5/1/2003
91632	WEATHER STATION	Auto Met	-	H10447	Decommissioned	1/15/2009
91633	WEATHER STATION	Metone	-	H10709	Decommissioned	1/15/2009
91634	WEATHER STATION	Metone	466A	H10448	Decommissioned	1/15/2009

Appendix A:

2023-2024 Siting Criteria and Residence Time Summary

AQS #	Site Name:	Parameter	Probe Tubing and Fittings	Probe Rain Shield Material	Height of Probe from ground to Inlet (meters)	Residence Time Seconds	Nearest Road/ Meters	Obstructions < 10 Meters	Tree Drip Line < 10 Meters	270 Degrees Unrestricted Airflow (yes/no)
28-011-0002	Cleveland	Ozone	Teflon	Stainless	4.5 m	3.97 s	Shumate Circle / 63.2 m	No	No	Yes
28-011-0002	Cleveland	PM	N/A	N/A	4.2 m	N/A	Shumate Circle / 62.2 m	No	No	Yes
28-033-0002	Hernando	Ozone	Teflon	Stainless	4.5 m	4.56 s	Vaiden Dr / 72.5 m	No	No	Yes
28-033-0002	Hernando	PM	N/A	N/A	4.2 m	N/A	Vaiden Dr / 71.5 m	No	No	Yes
28-045-0003	Waveland	Ozone	Teflon	Stainless	5.18 m	4.42 s	Bering St / 16.92 m	No	No	Yes
28-045-0003	Waveland	PM	N/A	N/A	4.83 m	N/A	Bering St / 14.5 m	No	No	Yes
28-047-0008	Gulfport YC	Ozone	Teflon	Stainless	4.08 m	4.08 s	Hancock AVE / 29.72 m	No	No	Yes
28-047-0008	Gulfport YC	PM	N/A	N/A	3.96 m	N/A	Hancock AVE / 29.72 m	No	No	Yes
28-049-0021	Hinds CC	Ozone	Teflon	Stainless	4.5 m	4.63 s	Medgar Evers Dr / > 300 m	No	No	Yes
28-049-0021	Hinds CC	PM	N/A	N/A	4.0 m	N/A	Medgar Evers Dr / > 300 m	No	No	Yes
28-075-0003	Meridian	Ozone	Teflon	Stainless	4.5 m	3.90 s	53rd Ave / 22 m	No	No	Yes
28-035-0004	Hattiesburg	PM	N/A	N/A	3.5 m	N/A	Ronie St. / 13.72 m	No	No	Yes
28-081-0005	Tupelo	Ozone	Teflon	Stainless	4.35 m	3.78 s	W. Jackson St / 4.63 m	No	No	Yes
28-049-0020	NCore	Ozone	Teflon	Stainless	4.5 m	4.91 s	N. West St./ 42 m	No	No	Yes
28-049-0020	NCore	SO2	Teflon	Stainless	4.5 m	6.29 s	N. West St./ 42 m	No	No	Yes
28-049-0020	NCore	CO	Teflon	Stainless	4.5 m	2.46 s	N. West St./ 42 m	No	No	Yes
28-049-0020	NCore	PM	N/A	N/A	4.0 m	N/A	N. West St./ 42 m	No	No	Yes
28-059-0006	Pascagoula	Ozone	Teflon	Stainless	4.57 m	3.73 s	LT Eugene J Majure Dr./ 12.95 m	No	No	Yes
28-059-0006	Pascagoula	SO2	Teflon	Stainless	5.30 m	3.97 s	LT Eugene J Majure Dr./ 12.95 m	No	No	Yes
28-059-0006	Pascagoula	NOx	Teflon	Stainless	4.57 m	7.30 s	LT Eugene J Majure Dr./ 12.95 m	No	No	Yes
28-059-0006	Pascagoula	PM	N/A	N/A	4.42 m	N/A	LT Eugene J Majure Dr./ 12.95 m	No	No	Yes