

**State of Alabama
Ambient Air Monitoring
2023 Network Plan**

May 26, 2023



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Definitions and Acronyms

AADT	Annual Average Daily Traffic
AAQM	Ambient Air Quality Monitoring
AAQMP	Ambient Air Quality Monitoring Plan
ADEM	Alabama Department of Environmental Management
ARM	Approved Regional Method
AQS	Air Quality System
avg	average
CASTNET	Clean Air Status and Trends Network
CBSA	Core Based Statistical Area
CFR	<i>Code of Federal Regulations</i>
CO	Carbon Monoxide
CSA	Combined Statistical Area
CSN	Chemical Speciation Network
EPA	Environmental Protection Agency
FEM	Federal Equivalent Method
FRM	Federal Reference Method
HDNREM	Huntsville Division of Natural Resources and Environmental Management
hr	hour
hi-vol	high-volume sampler
JCDH	Jefferson County Department of Health
low-vol	low-volume particulate sampler
m ³	cubic meter
min	minute
ml	milliliter
MSA	Metropolitan Statistical Area
NAAQS	National Ambient Air Quality Standards
NCore	National Core multipollutant monitoring station
O ₃	ozone
PAMS	Photochemical Assessment Monitoring Station
Pb	lead
PM	particulate matter
PM _{2.5}	particulate matter ≤2.5 micrometers diameter
PM ₁₀	particulate matter ≤10 micrometers diameter
ppb	parts per billion
PQAO	primary quality assurance organization
PSD	Prevention of Significant Deterioration
PWEI	Population Weighted Emissions Index
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
SLAMS	State or Local Air Monitoring Station
SO ₂	Sulfur Dioxide
SPM	Special Purpose Monitor
STN (PM _{2.5})	Speciation Trends Network
tpy	tons per year
TSP	Total Suspended Particulate
URG	URG-3000N PM _{2.5} Speciation monitoring carbon-specific sampler
° C	degree Celsius
µg/m ³	micrograms (of pollutant) per cubic meter (of air sampled)
µSA	Micropolitan Statistical Area
≥	greater than or equal to
>	greater than
≤	less than or equal to
<	less than

Introduction

In October 2006, the United States Environmental Protection Agency (EPA) issued final Federal Regulations (40 CFR Part 58) concerning state and local agency ambient air monitoring networks. These regulations require states to submit an annual monitoring network review to EPA. This document provides the framework for establishment and maintenance of Alabama's air quality surveillance system, lists changes that occurred during 2022/2023, and changes proposed to take place to the current ambient air monitoring network during 2023/2024. Any changes made to the plan after public comment period will be found in Appendix C.

Public Review and Comment

The annual monitoring network review must be made available for public inspection for thirty (30) days prior to submission to the EPA. For 2023, this document was placed on ADEM's website on 06/01/2023 to begin a 30-day public review period. This document can be accessed at the following link:

<http://www.adem.alabama.gov/newsEvents/publicNotices.cnt>

Or by contacting:

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Overview of Alabama's Air Monitoring Network

Ambient air monitors in the state of Alabama are operated for a variety of monitoring objectives. These objectives include determining whether areas of the state meet the National Ambient Air Quality Standards (NAAQS), to provide public information such as participation in the EPA's AirNow program, Air Quality Index (AQI) reporting for larger Metropolitan Statistical Areas (MSAs), for use in Air Quality Models, and to provide data to Air Quality Researchers. Entities in Alabama monitor all six (6) criteria pollutants which have NAAQS identified for them: Carbon Monoxide (CO), Lead (Pb), Nitrogen Dioxide (NO₂), Ozone (O₃), particulate matter (PM₁₀, PM_{2.5}), and Sulfur Dioxide (SO₂). PM_{2.5} speciated compounds, a non-criteria pollutant, is also monitored for special purposes. In addition, meteorological data may be collected to support air monitoring and aid in analysis of the ambient air monitoring data.

In Alabama, the air quality surveillance system is operated by three separate entities: the Alabama Department of Environmental Management (ADEM), and two local agencies, the Jefferson County Department of Health (JCDH), and the Huntsville Department of Natural Resources and Environmental Management (HDNREM). Each agency is responsible for its own annual network plan. This document reflects only the ADEM air quality surveillance system. An overview of the 2023 ADEM Monitoring Network can be found in Table 1.

The JCDH plan will be available for review on their website by following this link. <https://jcdh.org/SitePages/Misc/AirProgReports.aspx>

The HDNREM plan will be available for review on their website by following this link. <https://www.huntsvilleal.gov/environment/air-quality/>

Currently, the Air Quality Index (AQI) is reported for Huntsville, Birmingham, Mobile, Montgomery and Phenix City on the Internet at the sites listed below.

ADEM <http://adem.alabama.gov/programs/air/airquality/ozone/historical.cnt>

JCDH <https://jcdh.org/SitePages/Programs-Services/EnvironmentalHealth/Air-RadiationProtectionDivision/AirQualForecast.aspx>

HDNREM <https://www.huntsvilleal.gov/environment/air-quality/air-pollution-control-program/air-quality-daily-index-reports/>

Summary of adjustments and proposals for the ADEM AAQMP

Summary of changes in 2022/2023

- **Ashland, AQS ID 01-027-0001**, PM_{2.5} sampling method was changed by replacing the FRM sampler with an FEM BAM-1022 continuous sampler on 01/01/2023.
- **Chickasaw, AQS ID 01-097-0003**, PM_{2.5} sampling method was changed by replacing both the primary FRM manual monitor and the non-FEM BAM 1020 with an FEM BAM-1022 continuous sampler on 01/01/2023. The FEM BAM-1022 PM_{2.5} SLAMS continuous sampler has been designated as the primary monitor at the site. Although two monitors were shut-down, no change in the number of pollutants monitored occurred as a result of this change of equipment.
- **Crossville, AQS ID 01-049-1003**, PM_{2.5} sampling method was changed by replacing the FRM sampler with an FEM BAM-1022 continuous sampler on 01/01/2023.
- **Decatur, AQS ID 01-103-0011**, PM_{2.5} sampling method was changed by replacing both the API T-640 special purpose monitor and the FRM manual monitor with an FEM BAM-1022 continuous sampler on 01/01/2023. Although two monitors were shut-down, no change in the number of pollutants monitored occurred as result of this change of equipment.
- **Duncanville Middle School, AQS ID 01-125-0011**, PM_{2.5} sampling method was moved from VA, Tuscaloosa, AQS ID 01-125-0004, and an FEM BAM-1022 continuous sampler was started at this site on 01/01/2023.
- **Fairhope, AQS ID 01-0003-0010**, PM_{2.5} sampling method was changed by replacing the FRM manual monitor with a FEM BAM-1022 continuous sampler on 01/01/2023.
- **MOM, AQS ID 01-101-1002**, both the primary FRM manual monitor and the non-FEM BAM 1020 were replaced with an FEM BAM-1022 PM_{2.5} continuous sampler on 01/01/2023. Although two monitors were shut-down, no change in the number of pollutants monitored occurred as result of this change of equipment. The continuous FEM BAM-1022 PM_{2.5} SLAMS monitor has been designated as the primary monitor and an FRM manual monitor will continue to operate as the collocated monitor to meet regulatory collocation requirements for this method.
- **Phenix City – South Girard School, AQS ID 01-113-0003**, the FEM BAM-1022 continuous sampler was replaced with an FRM sampler on 03/01/2023.
- **Troy Lead, AQS ID 01-109-0003**, high volume TSP samplers were replaced with updated versions of the same type of equipment on 09/01/2022.
- **VA, Tuscaloosa, AQS ID 01-125-0004**, this site is closed as of 1/1/2023. The collocated PM_{2.5} monitor was approved for shut down and the primary PM_{2.5} monitor moved to Duncanville (01-125-0011) on 01/01/2023 to increase efficiency and utilize the new shelter.
- **Mobile PM10 Seals Park, AQS 01-097-8001**, ADEM has been working with the EPA and the City of Mobile to develop PM10 monitoring in response to citizen concerns of fugitive dust near the downtown area. Data collected will be suitable for NAAQS comparability and adhere to proper siting and monitoring guidelines as found in 40 CFR 58, Appendices A, C, D and E, as appropriate. Site construction is complete and monitoring is expected to start by July 1, 2023.

Summary of proposed changes for 2023/2024

- **Gadsden C College, AQS ID 01-055-0010** A new air monitoring shelter will be installed on the campus of Gadsden Community College in order to move Ozone monitoring from Southside, AQS ID 01-055-0011. Consolidating Ozone monitoring with PM_{2.5} monitoring at this site will improve efficiency and will not reduce the number of pollutants monitored in this MSA. Justification was provided in an addendum to the 2022 network plan.
- **Southside, AQS ID 01-055-0011**, ADEM will shut down this site at the end of ozone season 2023 and move 2024 ozone monitoring in the MSA to Gadsden C College, AQS ID 01-055-0010. Although one site will be shut-down, no change in the number of pollutants monitored in this MSA will occur as a result of this consolidation of monitoring.
- **Ward, Sumter Co., AQS ID 01-119-0003**, ADEM experienced a change in staffing, which delayed the startup of monitoring NO₂ at Ward, Sumter Co. (AQS ID 01-119-0003). Sampling should begin after delivery of the new, larger shelter, scheduled for late summer. The monitor will be designated as a Special Purpose Monitor (SPM) during its 2-year evaluation period.

Table 1 2023 ADEM Ambient Air Monitoring Network

ADEM Site Common Name	AQS ID	Ozone	PM2.5 Local	PM 2.5 Local Collocated	PM2.5 Speciation	PM2.5 Continuous	PM10 Lo-Vol	PM10 Lo-Vol Collocated	PM10 Continuous	Lead TSP	Lead TSP Collocated	NO2	SO2
Fairhope	01-003-0010	X				X ⁴							
Ashland	01-027-0001					X ⁴							
Crossville	01-049-1003					X ⁴							
Wetumpka Westside Technology	01-051-0004	X											
Gadsden C College	01-055-0010					X							
Southside	01-055-0011	X ¹											
Chickasaw	01-097-0003	X				X ⁴							X
Bay Road	01-097-2005	X											
Seals Park ³	01-097-8001						X	X					
MOMS, ADEM	01-101-1002	X		X		X ⁴	X	X					
Decatur	01-103-0011	X				X ⁴							
Troy Lead	01-109-0003									X	X		
Phenix City - South Girard School	01-113-0003	X	X	X	X								
Helena	01-117-0004	X											
Lhoist, Montevallo Plant (DRR)	01-117-9001												X
Ward, Sumter Co.	01-119-0003	X				X						X ²	X
Duncanville Middle School ⁵	01-125-0011	X				X							
¹ Site will be shut down at end of 2023 Ozone season.													
² Ward is scheduled to begin NO ₂ sampling.													
³ Seals Park is scheduled to begin sampling before 07/01/2023.													
⁴ Sampling method changed.													
⁵ Moved PM Sampling from Tuscaloosa, VA to this site.													

Network Plan Description

As per 40 CFR Part 58.10, an annual monitoring network plan which provides for the establishment and maintenance of an air quality surveillance system consisting of the air quality monitors in the state is required to be submitted by all states to the EPA.

Specifically §58.10 (a) requires for each existing and proposed monitoring site:

1. A statement of purpose for each monitor.
2. Evidence that siting and operation of each monitor meets the requirements of Appendices A, C, D, and E of 40 CFR Part 58, where applicable.
3. §58.10 (b) requires the plan contain the following information for each existing and proposed site:
 - a. The Air Quality System (AQS) site identification number.
 - b. The location, including street address and geographical coordinates.
 - c. The sampling and analysis method(s) for each measured parameter.
 - d. The operating schedules for each monitor.
 - e. Any proposals to remove or move a monitoring station within a period of 18 months following plan submittal.
 - f. The monitoring objective and spatial scale of representativeness for each monitor.
 - g. The identification of any sites that are suitable and sites that are not suitable for comparison against the annual PM_{2.5} NAAQS as described in §58.30.
 - h. The Metropolitan Statistical Area (MSA), Core Based Statistical Area (CBSA), Combined Statistical Area (CSA) or other area represented by the monitor.
 - i. The designation of any Pb monitors as either source-oriented or non-source-oriented according to 40 CFR part 58 Appendix D.
 - j. Any source-oriented monitors for which a waiver has been requested or granted by the EPA Regional Administrator as allowed for under paragraph 4.5(a)(ii) of 40 CFR part 58 Appendix D.
 - k. Any source-oriented or non-source-oriented site for which a waiver has been requested or granted by the EPA Regional Administrator for the use of Pb-PM₁₀ monitoring in lieu of Pb-TSP monitoring as allowed for under paragraph 2.10 of Appendix C to 40 CFR part 58.
 - l. The identification of required NO₂ monitors as near-road, area-wide, or vulnerable and susceptible population monitors in accordance with Appendix D, section 4.3 of this part.
 - m. The identification of any PM_{2.5} or FEMs used in the monitoring agency's network where the data are not of sufficient quality such that data are not to be compared to the NAAQS. For required SLAMS where the agency identifies that the PM_{2.5} Class III FEM does not produce data of sufficient quality for comparison to the NAAQS, the monitoring agency must ensure that an operating FRM or filter-based FEM meeting the sample frequency requirements described in § 58.12 or other Class III PM_{2.5} FEM or ARM with data of sufficient quality is operating and reporting data to meet the network design criteria described in Appendix D to this part.

Monitoring Requirements

Appendix A of 40 CFR Part 58 outlines the Quality Assurance Requirements for SLAMS, SPMs, and PSD Air Monitoring. It details calibration and auditing procedures used to collect valid air quality data, the minimum number of collocated monitoring sites, calculations used for data quality assessments, and reporting requirements. All sites operated by ADEM follow the requirements set forth in Appendix A.

Appendix C of 40 CFR Part 58 specifies the criteria pollutant monitoring methods which must be used in SLAMS and NCore stations. All criteria pollutant monitoring operated by ADEM follow the methods specified in Appendix C.

Appendix D of 40 CFR Part 58 specifies network design criteria for ambient air quality monitoring. The overall design criteria, the minimum number of sites for each parameter, the type of sites, the spatial scale of the sites, and the monitoring objectives of the sites are detailed. In designing the air monitoring network for ADEM, the requirements of Appendix D were followed. The specifics for each pollutant network are in their individual chapters.

Appendix E of 40 CFR Part 58 specifies probe material, placement of the monitoring probe and spacing from obstructions. All monitors operated by ADEM were evaluated against Appendix E criteria.

Population and CBSA

Alabama has a 2022 population estimate of 5,074,279. Alabama's Metropolitan and Micropolitan Core Based Statistical Areas with corresponding classifications as Metropolitan or Micropolitan, county names included in that area, the 2020 population base and the 2022 population estimates are listed in Table 2. Alabama's network is represented in Figure 1.

Minimum monitoring requirements vary for each pollutant and can be based on a combination of factors such as population, the level of monitored pollutants, and Core Based Statistical Area boundaries as defined in the latest U.S. Census information. The term "Core Based Statistical Area" (CBSA) is a collective term for both Metropolitan Statistical Areas (MSA) and Micropolitan Statistical Areas (μ SA).

Table 2 Alabama CBSAs

Alabama Core Based Statistical Area	Counties in CBSA	2020 Population Base	2022 Population Estimate	Statistical Area
Anniston-Oxford	Calhoun	116,441	115,788	Metropolitan
Auburn-Opelika	Lee	174,241	180,773	Metropolitan
Birmingham-Hoover	Bibb, Blount, Chilton, Jefferson, Shelby, St. Clair,	1,115,289	1,116,857	Metropolitan
Columbus, GA-AL	Russell County in AL and Chattahoochee, Harris, Marion, Muscogee, Stewart and Talbot Counties in GA	328,883	324,110	Metropolitan
Daphne-Fairhope-Foley	Baldwin	231,767	246,435	Metropolitan
Decatur	Lawrence, Morgan	156,494	157,425	Metropolitan
Dothan	Geneva, Henry, Houston	151,007	152,517	Metropolitan
Florence-Muscle Shoals	Colbert, Lauderdale	150,791	153,911	Metropolitan
Gadsden	Etowah	103,436	103,088	Metropolitan
Huntsville	Limestone, Madison	491,723	514,465	Metropolitan
Mobile	Mobile, Washington	430,197	426,533	Metropolitan
Montgomery	Autauga, Elmore, Lowndes, Montgomery	386,047	385,460	Metropolitan
Tuscaloosa	Hale, Pickens, Tuscaloosa, Greene	268,674	277,494	Metropolitan
Albertville	Marshall	97,612	99,423	Micropolitan
Alexander City	Tallapoosa, Coosa	51,698	51,143	Micropolitan
Atmore	Escambia	36,757	36,666	Micropolitan
Cullman	Cullman	87,866	90,665	Micropolitan
Enterprise	Coffee	53,465	54,805	Micropolitan
Eufaula, AL-GA Micro Area	Barbour County in AL and Quitman Counties in GA	27,458	26,955	Micropolitan
Fort Payne	DeKalb	71,608	71,998	Micropolitan
Jasper, AL Micro Area	Walker	65,342	64,339	Micropolitan
LaGrange, GA-AL Micro Area	Chambers County in AL and Troup County in GA	104,198	104,279	Micropolitan
Ozark	Dale	49,326	49,544	Micropolitan
Scottsboro	Jackson	52,579	52,891	Micropolitan
Selma	Dallas	38,462	36,767	Micropolitan
Talladega-Sylacauga	Talladega	82,149	80,704	Micropolitan
Troy	Pike	33,009	33,014	Micropolitan

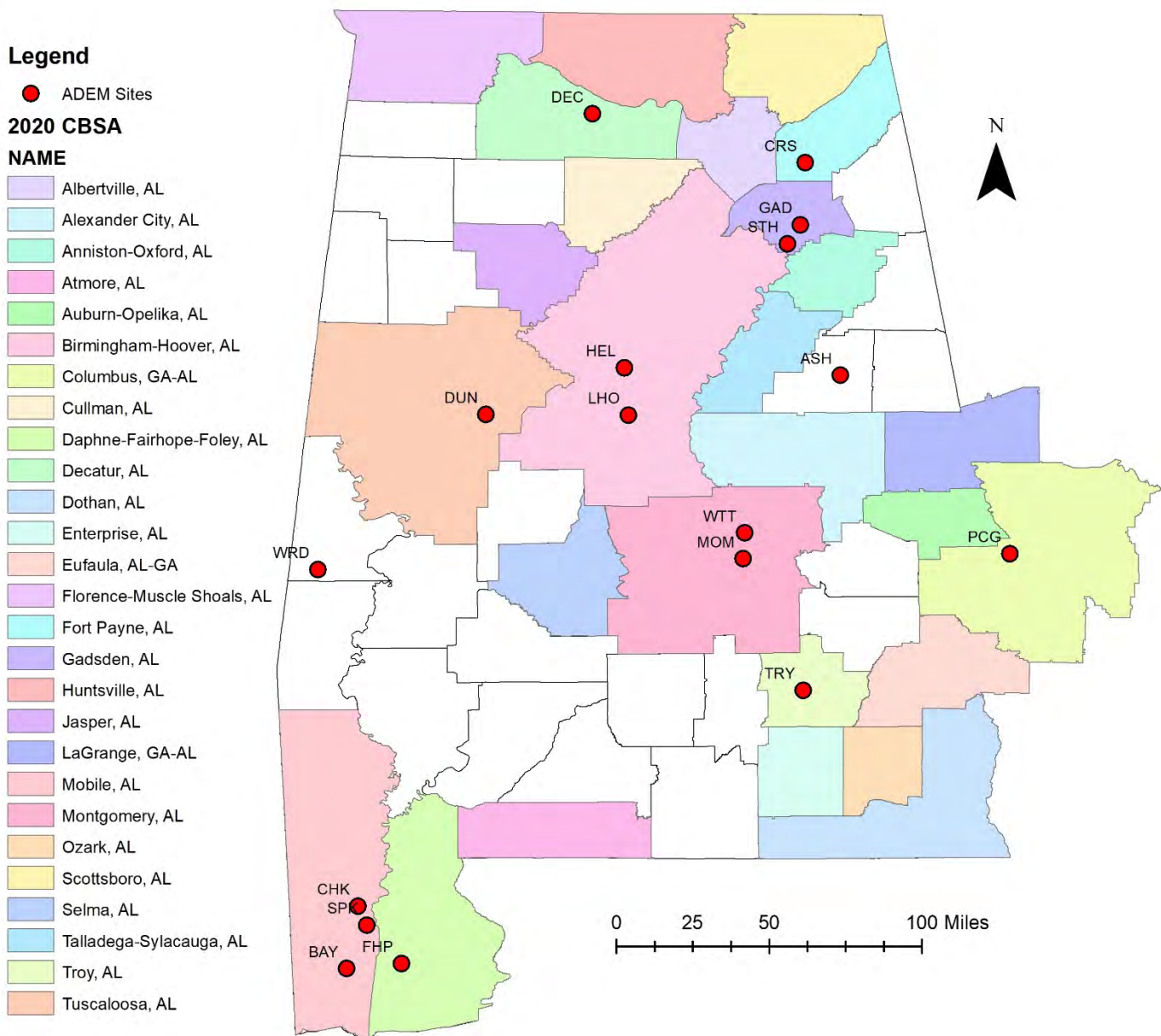


Figure 1 Alabama MSAs and ADEM Monitoring Sites

Types of Monitoring Stations

CASTNET – *Clean Air Status and Trends Network*: is a national air quality monitoring network designed to provide data to assess trends in air quality, atmospheric deposition, and ecological effects due to changes in air pollutant emissions. CASTNET provides long-term monitoring of air quality in rural areas to determine trends in regional atmospheric nitrogen, sulfur, and ozone concentrations and deposition fluxes of sulfur and nitrogen pollutants in order to evaluate the effectiveness of national and regional air pollution control programs. EPA-sponsored CASTNET ozone monitors are Part 58 compliant, therefore the data can be used for regulatory purposes. CASTNET Ozone data is now reported to AQS. There is one CASTNET site in Alabama, **Sand Mountain (SND152), AQS ID 01-049-9991**, in DeKalb County, operated by the EPA.

NCore – *National Core multi-pollutant monitoring station*: Sites that measure multiple pollutants at trace levels in order to provide support to integrated air quality management data needs. Each state is required to operate at least one NCore site. There is one NCore site in Alabama, **North Birmingham, AQS ID 01-073-0023**, located in Jefferson County and operated by JCDH. Refer to the JCDH Ambient Air Network Plan for details.

PAMS – *Photochemical Assessment Monitoring Station*: PAMS are established to obtain more comprehensive data in areas with high levels of ozone pollution by also monitoring oxides of Nitrogen (NO_x) and volatile organic compounds (VOCs). PAMS monitoring requirements were revised in the 2016 ozone NAAQS rule and a PAMS site is required in Jefferson County. Refer to the JCDH Ambient Air Network Plan for details.

SLAMS - *State or Local Ambient Monitoring Station*: SLAMS make up ambient air quality monitoring sites that are primarily needed for NAAQS comparisons. ADEM SLAMS monitors are described in detail in the section labeled ADEM's Pollutant Network Tables.

SPM – *Special Purpose Monitor*: **Ward, Sumter Co., AQS ID 01-119-0003**, will begin its 24 month evaluation period for NO₂ with a Teledyne N500, CAPS NO_x Analyzer this year. **Seals Park, AQS ID 01-097-8001**, will have two special purpose monitors and will begin sampling for PM₁₀ with an FRM local sampler and an FEM E-BAM continuous sampler for the purpose of calculating a valid design value for PM₁₀ in the MSA.

SO2 DRR - *SO2 Data Requirements Rule*: DRR became effective September 21, 2015. Per 40 CFR Part 51, states are required to report all sources that generate >2,000 tpy SO₂, not dependent upon population density. Each source in this category must characterize air quality through air quality modeling or ambient air monitoring. The annual progress report for sources that utilized modeling can be found in Appendix B. The source that chooses monitoring must operate a site equivalent with the SLAMS requirements of 40 CFR Part 58. Alabama has one DRR SO₂ monitoring site, **Lhoist, Montevallo Plant, AQS ID 01-117-9001**, operated by a Lhoist contractor within the ADEM PQAQ. The Lhoist-Montevallo facility was designated attainment/unclassifiable on March 26, 2021 under Round IV of the SO₂ DRR, based on 2017-2019 monitoring data.

STN – *PM_{2.5} Speciation Trends Network*: A PM_{2.5} speciation station designated to be part of the speciation trends network. This network provides chemical species data of fine particulates. There is one STN site in Alabama, **North Birmingham, AQS ID 01-073-0023**, located in Jefferson County and operated by JCDH. Refer to the JCDH Ambient Air Network Plan for details.

Supplemental Speciation – A monitoring site that is not dedicated as an STN site in the Chemical Speciation Network, but has monitors used to gain supplemental data for that network. ADEM provides supplemental speciation data from **Phenix City-South Girard School, AQS ID 01-113-0003**.

ADEM's Monitoring Networks by Pollutant

Carbon Monoxide (CO) Network

On August 12, 2011, the EPA issued a final rule that retained the existing NAAQS for Carbon Monoxide (CO) and made changes to the ambient air monitoring requirements. The EPA revised the minimum requirements for CO monitoring by requiring CO monitors to be collocated with one required near-road NO₂ monitor in CBSAs having a population of 1,000,000 or more persons. ADEM does not operate a near-road monitoring site or CO monitor. For more information regarding CO monitoring in Alabama refer to the JCDH Ambient Air Network Plan for details.

Lead (Pb) Network

In 2008, the EPA revised the NAAQS for lead (Pb). The Pb standard was lowered from 1.5 ug/m³ for a quarterly average to 0.15 ug/m³ based on the highest rolling 3-month average over a 3-year period. The EPA set minimum monitoring requirements for source and population oriented monitoring. Source oriented monitoring is required near sources that have Pb emissions ≥1 ton per year. Population oriented monitoring is required for CBSAs >500,000. In December 2010, the EPA revised the Pb rule to require source-oriented monitors for sources greater than ½ ton per year (tpy) and stated that population oriented monitors would be located at NCore sites. In March 2016, the EPA removed the requirement for Pb monitoring at NCore sites that were not located near a Pb emissions source.

After the initial 2010 ruling, two sources were identified that exceeded the 0.5 tpy threshold: Sanders Lead Company and the Anniston Army Depot. Since then, updated emissions inventories have reduced that to one identified source, Sanders Lead Company, Inc., located in Troy, Pike County, a Micropolitan statistical area, which emits greater than ½ ton of Pb per year. **Troy Lead, AQS ID 01-109-0003**, operated by ADEM, has been monitoring for Pb near that source since 1979. To meet QA requirements, collocated lead monitoring is also occurring at this site.

Nitrogen Dioxide (NO₂) Network

On January 22, 2010, the EPA finalized the monitoring rules for Nitrogen Dioxide (NO₂). The rules require the placement of NO₂ monitors near a major road in each CBSA with a population ≥500,000 people and a second monitor is required near another major road in areas with either a CBSA population ≥2.5 million people, or one or more road segments with an annual average daily traffic (AADT) count ≥250,000 vehicles. For near road NO₂ monitoring, Birmingham-Hoover is the only MSA in Alabama with a population greater than 500,000. However, the population is less than 2.5 million and there are no road segments with AADT greater than 250,000 vehicles. The rules also require an NO₂ monitor to be placed in any urban area with a population greater than or equal to 1 million people to assess community-wide concentrations. Birmingham-Hoover is the only MSA in Alabama with a population greater than 1 million. Refer to the JCDH Ambient Air Network Plan for details. ADEM plans to begin monitoring NO₂ at **Ward, Sumter Co., AQS ID 01-119-0003**, for the purpose of collecting background data. ADEM requests an exclusion flag be placed on the data and the monitor be designated SPM while undergoing its evaluation period.

Ozone (O₃) Network

Effective December 28, 2015, the level of the NAAQS for ozone was changed from 0.075 to 0.070 ppm. To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.070 ppm. Minimum monitoring requirements for ozone are based on population and whether the design value is <85% of the NAAQS, or ≥85% of the NAAQS (See Table 3). Since the NAAQS for ozone is 0.070 parts per million of ozone, then 85% of the NAAQS truncated is

0.059 ppm. ADEM’s Ozone Monitoring Sites and Design Values using 2020-2022 data are described in Table 4.

Table 3 SLAMS Minimum Ozone Monitoring Site Requirements

SLAMS MINIMUM OZONE MONITORING REQUIREMENTS		
MSA population ^{1, 2}	Most recent 3-year design value concentrations \geq 85% of any O3 NAAQS ³	Most recent 3-year design value concentrations <85% of any O3 NAAQS ^{3,4}
>10 million	4	2
4–10 million	3	1
350,000–<4 million	2	1
50,000–<350,000 ⁵	1	0

1 Minimum monitoring requirements apply to the Metropolitan statistical area (MSA).

2 Population based on latest available census figures.

3 The ozone (O3) National Ambient Air Quality Standards (NAAQS) levels and forms are defined in 40 CFR part 50.

4 These minimum monitoring requirements apply in the absence of a design value.

5 Metropolitan statistical areas (MSA) must contain an urbanized area of 50,000 or more population.

Table 4 ADEM Ozone Monitoring Sites and Design Values

Site Name	AQS ID	2020-2022 Design Values	MSA	MSA MAX DV ²	2022 Population Base
Helena ¹	01-117-0004	0.061	Birmingham-Hoover	0.063	1,116,857
Phenix City - South Girard School ¹	01-113-0003	0.057	Columbus, GA-AL	0.057	324,110
Columbus-Airport GA	13-215-0008	0.057			
Fairhope	01-003-0010	0.058	Daphne-Fairhope-Foley	0.058	246,435
Decatur	01-103-0011	0.060	Decatur	0.060	157,425
Southside	01-055-0011	0.057	Gadsden	0.057	103,088
Chickasaw	01-097-0003	0.057	Mobile	0.057	426,533
Bay Road ⁴	01-097-2005	0.054			
Wetumpka Westside Technology	01-051-0004	0.053	Montgomery	0.058	385,460
MOMS, ADEM	01-101-1002	0.058			
Duncanville Middle School ³	01-125-0011	0.055	Tuscaloosa	0.055	277,494
Ward, Sumter Co.	01-119-0003	0.053	not in MSA	N/A	NA
DV \geq 85% of the NAAQS					
¹ Only site within MSA operated by ADEM					
² MSA MAX DV may be obtained from monitors not operated by ADEM					
³ Data continued from Duncanville, Tuscaloosa 01-125-0010					
⁴ Invalid design value due to invalid data completeness.					

Ozone Monitoring Requirements for Alabama MSAs

Birmingham-Hoover MSA

Using the Birmingham-Hoover MSA 2022 population estimate and the design value from Table 4, two Ozone monitors are required in this MSA. ADEM operates **Helena, AQS ID 01-117-0004**, in Shelby County. Other ozone sites in this MSA are located within the jurisdiction of the JCDH. For more information regarding ozone monitoring in Jefferson County refer to the JCDH ambient air network plan. No changes to ADEM's site are planned.

Columbus, GA-AL MSA

Using the Columbus GA-AL MSA 2022 population estimate and the design value from Table 4, zero Ozone monitors are required for this MSA. ADEM operates one ozone monitor at **Phenix City-South Girard School, AQS ID 01-113-0003**, in Russell County, Alabama. For more information regarding other ozone monitoring in this MSA, refer to the State of Georgia's ambient air network plan. No changes are planned.

Daphne-Fairhope-Foley MSA

Using the Daphne-Fairhope-Foley MSA 2022 population estimate and the design value from Table 4, zero Ozone monitors are required for this MSA. There is currently one Ozone site, **Fairhope, AQS ID 01-003-0010** in Baldwin County, Alabama. No changes are planned.

Decatur MSA

Using the Decatur MSA 2022 population estimate and the design value from Table 4, one Ozone monitor is required for this MSA. There is currently one Ozone site, **Decatur, AQS ID 01-103-0011**, in Morgan County, Alabama. No changes are planned.

Gadsden MSA

Using the Gadsden MSA 2022 population estimate and the design value from Table 4, zero Ozone monitors are required for this MSA. There is currently one Ozone site, **Southside, AQS ID 01-055-0011**, in Etowah County, Alabama. ADEM will close this site at the end of the 2023 ozone season and move 2024 ozone monitoring to **Gadsden Community College, AQS ID 01-055-0010** to consolidate monitoring in the MSA.

Huntsville MSA

ADEM does not operate any ozone monitors in this MSA. For information regarding ozone monitoring in Huntsville refer to the HDNREM ambient air network plan.

Mobile MSA

Using the Mobile MSA 2022 population estimate and the design value from Table 4, one Ozone monitor is required for this MSA. There are currently two Ozone sites, **Chickasaw, AQS ID 01-097-0003**, and **Bay Road, 01-097-2005**, both in Mobile County, Alabama. No changes are planned.

Montgomery MSA

Using the Montgomery MSA 2022 population estimate and the design value from Table 4, one Ozone monitor is required for this MSA. There are currently two Ozone sites, **MOMS, ADEM, AQS ID 01-101-1002**, in Montgomery County, Alabama, and **Wetumpka Westside Technology Park, AQS ID 01-051-0004** in Elmore County, Alabama. No changes are planned.

Tuscaloosa MSA

Using the Tuscaloosa MSA 2022 population estimate and design value from Table 4, zero Ozone monitors are required for this MSA. There is currently one Ozone site, **Duncanville Middle School, AQS ID 01-125-0011** in Tuscaloosa County, Alabama. No changes are planned.

Anniston-Oxford and Auburn-Opelika MSAs

The MSAs of Auburn-Opelika and Anniston-Oxford were evaluated by ADEM during the 5-year assessment. It was determined that due to the close proximity of ozone monitors in the neighboring MSAs, additional ozone monitors would not be needed. Since these areas do not have design values, no ozone monitors are required by Appendix D of 40 CFR Part 58.

Sites not located in an MSA

Ward, Sumter Co., AQS ID 01-119-0003, represents rural, background ozone values for the state. The historical design values for this monitor have been less than 85% of the NAAQS. No changes are planned for ozone monitoring at this site.

PM_{2.5} Network

Minimum monitoring requirements for PM_{2.5} are based on population and whether the design value is <85% of the NAAQS, or ≥85% of the NAAQS (See Table 5). Additionally, a regional background site and a regional transport site are required.

Also, CBSAs with populations greater than one million but less than four million were required to operate a PM_{2.5} monitor at its NO₂ near road site by January 1, 2017. ADEM does not operate an NO₂ near road site. More information regarding this requirement in Alabama can be found in the JCDH ambient air network plan.

PM_{2.5} design values in Table 6 are based on 2019-2022 data. Design values must be less than **29.75** ug/m³ (85% of the NAAQS) to meet the 24-hour standard of 35 ug/m³ and less than **10.2** ug/m³ (85% of the NAAQS) to meet the annual standard of 12 ug/m³ (effective March 18, 2013).

Table 5 PM_{2.5} Minimum Monitoring Site Requirements

PM _{2.5} MINIMUM MONITORING REQUIREMENTS		
MSA population ^{1,2}	Most recent 3-year design value ≥85% of any PM _{2.5} NAAQS ³	Most recent 3-year design value <85% of any PM _{2.5} NAAQS ^{3,4}
>1,000,000	3	2
500,000–1,000,000	2	1
50,000–<500,000 ⁵	1	0

1 Minimum monitoring requirements apply to the Metropolitan statistical area (MSA).

2 Population based on latest available census figures.

3 The PM_{2.5} National Ambient Air Quality Standards (NAAQS) levels and forms are defined in 40 CFR part 50.

4 These minimum monitoring requirements apply in the absence of a design value.

5 Metropolitan statistical areas (MSA) must contain an urbanized area of 50,000 or more population.

Section 4.7.2 of Appendix D of 40 CFR Part 58 requires a collocated continuous PM_{2.5} monitor in each MSA that is required to have a FRM monitor. The number of collocated continuous monitors required for an MSA will be equal to at least half of the required FRM monitors for that MSA. This is not required if the continuous monitor is a FEM that is labeled as the primary and comparable to the NAAQS. The state is also required to operate PM_{2.5} speciation monitors to characterize the constituents of PM_{2.5}. The number of speciation monitors is determined by the EPA Region IV.

Currently, there are no MSA's in Alabama that meet the population and design value criteria to require PM_{2.5} FRM monitoring. Continuous PM_{2.5} monitors satisfy the reporting requirement to AirNow. Every Alabama MSA with the exception of Birmingham-Hoover has a population less than 500,000 and design values <85% of the NAAQS for either the 24-hour or annual standard.

ADEM's PM_{2.5} Network is described in Table 6.

Table 6 ADEM PM_{2.5} Monitoring Sites and Design Values

Site Name	AQS Site ID	PM _{2.5} 24 hr DV 2020- 2022	PM _{2.5} Annual DV 2020- 2022	MSA	24hr MSA MAX DV ²	Annual MSA MAX DV ²	2022 Population Base
Phenix City - South Girard School ¹	01-113-0003	24	9.1	Columbus, GA-AL ²	26	9.1	324,110
Fairhope	01-003-0010	15	7.5	Daphne-Fairhope-Foley	15	7.5	246,435
Decatur	01-103-0011	16	7.4	Decatur	16	7.4	157,425
Gadsden C College	01-055-0010	20	8.2	Gadsden	20	8.2	103,088
Chickasaw	01-097-0003	16	7.9	Mobile	16	7.9	426,533
MOMS, ADEM	01-101-1002	16	7.9	Montgomery	16	7.9	385,460
VA, Tuscaloosa ³	01-125-0004	18	7.6	Tuscaloosa	18	7.6	277,494
Duncanville Middle School	01-125-0011	*	*		*	*	
Ashland (Background/Regional Transport)	01-027-0001	15	6.8	Not in MSA	NA	NA	NA
Crossville (Background)	01-049-1003	16	7.2	Not in MSA	NA	NA	NA
Ward (Background)	01-119-0003	*	*	Not in MSA	NA	NA	NA
DV ≥ 85% of the NAAQS							
*Not enough data to calculate a valid design value.							
¹ Only site within MSA operated by ADEM. MSA MAX DV may be obtained from monitors not operated by ADEM.							
² One Georgia monitor is lacking enough valid data to meet completeness requirements to calculate design value.							
³ Site closed 12/31/2022 and PM sampling was moved to Duncanville Middle School, AQS 01-125-0011, in this MSA.							

PM_{2.5} Monitoring Requirements for Alabama MSAs

Birmingham-Hoover MSA

ADEM does not operate PM_{2.5} monitors in the Birmingham-Hoover MSA. For more information regarding PM_{2.5} monitoring in this MSA refer to the JCDH ambient air network plan.

Columbus, GA-AL MSA

Using the Columbus, GA-AL MSA 2022 population base and the design value from Table 6, zero FRM monitors are required. ADEM operates one FRM monitor on a 1 in 3 day frequency, one collocated FRM monitor on a 1 in 6 day frequency for quality assurance, and one speciation monitor at **Phenix City – South Girard School, AQS ID 01-113-0003**. The FEM BAM-1022 continuous monitor was replaced by an FRM monitor. No further changes are planned. For more information regarding other PM_{2.5} monitoring in this MSA refer to the State of Georgia’s ambient air network plan.

Daphne-Fairhope-Foley MSA

Using the Daphne-Fairhope-Foley MSA 2022 population base and the design value from Table 6, zero FRM monitors are required. There is currently one FEM BAM-1022 PM_{2.5} continuous monitor located at **Fairhope, AQS ID 01-003-0010**. No changes are planned.

Decatur MSA

Using the Decatur MSA 2022 population base and the design value from Table 6, zero FRM monitors are required. There is currently one FEM BAM-1022 PM_{2.5} continuous monitor located at **Decatur, AQS ID 01-103-0011**. The API T-640 and the FRM monitor were shut down at the beginning of the year. The T640 continuous monitor completed its 2-year evaluation period on August 1, 2022, but was removed for quality assurance reasons. No further evaluation period is required, making the collocated FRM sampler unnecessary. No further changes are planned.

Gadsden MSA

Using the Gadsden MSA 2022 population base and the design value from Table 6, zero FRM monitors are required. There is currently one FEM BAM-1022 PM_{2.5} continuous monitor at **Gadsden Community College, AQS ID 01-055-0010**. No changes are planned.

Huntsville MSA

ADEM does not operate PM_{2.5} monitors in the Huntsville MSA. For information regarding PM_{2.5} monitoring in this MSA refer to the HDNREM ambient air network plan.

Mobile MSA

Using the Mobile MSA 2022 population base and the design value from Table 6, zero FRM monitors are required. There is currently one FEM BAM-1022 continuous monitor located at **Chickasaw, AQS ID 01-097-0003**. No changes are planned.

Montgomery MSA

Using the Montgomery MSA 2022 population base and the design value from Table 6, zero FRM monitors are required. There is currently one FEM BAM-1022 continuous monitor and one collocated FRM monitor on a 1 in 6 day frequency for quality assurance located at **MOMS, ADEM, AQS ID 01-101-1002**. No changes are planned.

Tuscaloosa MSA

Using the Tuscaloosa MSA 2022 population base and the design value from Table 6, zero FRM monitors are required. PM_{2.5} sampling in this MSA moved from VA, Tuscaloosa, AQS ID 01-125-0004 to Duncanville Middle School, AQS ID 01-125-0011. There is currently one FEM BAM-1022 continuous monitor located at **Duncanville Middle School, AQS ID 01-125-0011**. No further changes are planned.

Anniston-Oxford and Auburn-Opelika MSAs

The MSAs of Anniston-Oxford and Auburn-Opelika were evaluated to determine the need for monitors during the 5-yr network review. It was determined that due to the close proximity of PM_{2.5} monitors in neighboring MSAs, additional monitors would not be needed. PM_{2.5} monitoring in the adjacent MSAs continues to provide adequate coverage. Since these areas do not have design values, no FRM monitors are required by Appendix D of 40 CFR Part 58.

PM_{2.5} Monitors not located in MSAs

Ashland, AQS ID 01-027-0001, serves as a regional transport site in between the large MSAs of Birmingham-Hoover, Alabama and Atlanta-Sandy Springs-Roswell, Georgia using one continuous FEM BAM-1022 PM_{2.5} monitor. No changes are planned.

Crossville, AQS ID 01-049-1003, represents rural, background PM_{2.5} values for the northeast part of the state using one continuous FEM BAM-1022 PM_{2.5} monitor. No changes are planned.

Ward, Sumter Co., AQS ID 01-119-0003, represents rural, background PM_{2.5} values for the state using one continuous FEM BAM-1022 PM_{2.5} monitor. No changes are planned.

PM₁₀ Network

PM₁₀ has been a criteria pollutant since 1987. Since that time there has been widespread monitoring of the PM₁₀ levels in Alabama. In 2006, the EPA modified the NAAQS for PM₁₀ to revoke the annual standard. Currently, there is a daily standard of 150 ug/m³ based on 3 years of data.

The Montgomery MSA has a population between 250,000 and 500,000 and PM₁₀ concentrations are less than 80% of the NAAQS daily standard. According to Table D-4 of Appendix D to Part 58, 0 to 1 PM₁₀ monitors are required.

Montgomery MSA

ADEM operates two low-volume PM₁₀ monitors on a 1 in 6 day schedule at MOMS, ADEM, AQS ID 01-101-1002, one being the collocated quality assurance monitor. No changes are planned.

Mobile MSA

ADEM set up a new PM₁₀ site at James Seals Park & Community Center, 540 Texas Street, Mobile. This site will be operational by 7/1/2023. The new site will have two Special Purpose Monitors, a FRM 2025i monitor run on a 1 in 6 day schedule and an EBAM continuous monitor. A third monitor will be set up to collect filters for particle analysis.

Sulfur Dioxide (SO₂) Network

Effective August 23, 2010, the EPA strengthened the primary NAAQS for SO₂. The EPA established a new 1-hour standard at 75 ppb, based on the 3-year average of the annual 99th percentile of 1-hour daily maximum concentrations. According to the EPA, for a short-term 1-hour SO₂ standard, it is more technically appropriate, efficient, and effective to use modeling as the principal means of assessing compliance for medium to larger sources, and to rely more on monitoring for groups of smaller sources and sources not as conducive to modeling. Such an approach is consistent with the EPA's historical approach and longstanding guidance for SO₂. The EPA is setting specific minimum requirements that inform states on where they are required to place SO₂ monitors. The final monitoring regulations require monitors to be placed in Core Based Statistical Areas (CBSAs) based on a Population Weighted Emissions Index (PWEI) for the area. The final rule requires:

- 3 monitors in CBSAs with PWEI values $\geq 1,000,000$ or more;
- 2 monitors in CBSAs with PWEI values $< 1,000,000$ but $> 100,000$; and
- 1 monitor in CBSAs with PWEI values $> 5,000$.

According to the latest PWEI calculations listed in Table 7 only the Birmingham-Hoover MSA requires SO₂ monitoring. ADEM operates two SO₂ monitors: **Chickasaw, AQS ID 01-097-0003**, for the Mobile MSA and **Ward, Sumter Co., AQS ID 01-119-0003**, not located in an MSA, for background purposes. For more information regarding SO₂ monitoring in the Birmingham-Hoover MSA refer to the JCDH ambient air monitoring network plan.

Effective September 21, 2015, the SO₂ Data Requirements Rule (DRR) per 40 CFR Part 51, requires states to report all sources that generate $> 2,000$ tpy SO₂, not dependent upon population density. Each source in this category must characterize air quality through air quality modeling or ambient air monitoring. Sources that model must provide an annual report located in Appendix D) Each source that chooses monitoring must operate their site equivalent with the SLAMS requirements of 40 CFR Part 58. Lhoist North America of Alabama, LLC – Montevallo Plant, located within the Birmingham-Hoover MSA, has monitored SO₂ in accordance with the DRR since January 1, 2017. The site is **Lhoist, Montevallo Plant, AQS ID 01-117-9001**, and operates within ADEM's PQAO.

Table 7 SO₂ Minimum Monitoring Site Requirements

SO ₂ Population Weighted Emissions Index (PWEI) Calculations using 2020 Census Base and 2017 National Emissions Inventory (NEI) v2				
CBSA Name	2020 NEI SO₂ (tpy)	Population Est (2022)	PWEI in Million persons-tpy	Required Monitors
Birmingham-Hoover	12,680	1,116,857	14,162	1
Mobile	4,233	426,533	1,806	0
Columbus, GA-AL	2,480	324,110	804	0
Montgomery	1,402	385,460	540	0
Tuscaloosa	696	277,494	193	0
Huntsville	256	514,465	132	0
Decatur	398	157,425	63	0
Daphne-Fairhope-Foley	233	246,435	57	0
Dothan	303	152,517	46	0
Auburn-Opelika	217	180,773	39	0
Scottsboro	733	52,891	39	0
Florence-Muscle Shoals	181	153,911	28	0
LaGrange, GA-AL	242	104,279	25	0
Anniston-Oxford	197	115,788	23	0
Troy	501	33,014	17	0
Talladega-Sylacauga	184	80,704	15	0
Albertville	122	99,423	12	0
Cullman	81	90,665	7	0
Selma	192	36,767	7	0
Enterprise	118	54,805	6	0
Gadsden	52	103,088	5	0
Ozark	94	49,544	5	0

Quality Assurance

The ADEM has an EPA-approved Quality Assurance Program Plan (QAPP) and Quality Management Plan (QMP) that details the activities used to control and document the quality of the data collected. ADEM is an independent Primary Quality Assurance Organization (PQAO) as defined by 40 CFR Part 58. Part of the EPA-required quality control program for particulate monitoring is the use of collocated particulate monitors. 40 CFR Part 58, Appendix A requires a percentage of manual particulate monitors to be collocated with FRM monitors so that quality statistics can be calculated. ADEM includes monitors for this purpose.

ADEM AAQMP Pollutant Network Tables

A description of ADEM's ambient air monitoring network, followed by detailed site evaluations, will be presented in this section.

Included will be:

- Site Common Name
- County/CBSA
- AQS ID
- Address
- Latitude and Longitude
- Monitoring Objective/Scale
- Beginning and Ending Sampling Date
- Method, Method Code and Operating Schedule
- Comparability to the NAAQS

Ozone

Site Common Name	County/CBSA	AQS ID	Address	Latitude	Longitude	Monitoring Objective / Scale	Date Began	Date Ended	Method, Method Code and Schedule	NAAQS
Fairhope	Baldwin/Daphne-Fairhope-Foley MSA	01-003-0010	Fairhope High School, Fairhope	30.497478	-87.880258	Population Exposure/ Neighborhood	3/1/2000	active	U, 087, C	Y
Wetumpka Westside Technology Park	Elmore/Montgomery MSA	01-051-0004	3148 Elmore Road, Wetumpka	32.53568	-86.255193	Highest Concentration/ Urban	3/1/2018	active	U, 087, C	Y
Gadsden C College ¹	Etowah/Gadsden MSA	01-055-0010	1001 Wallace Drive, Gadsden	33.991494	-85.992647	Population Exposure/ Urban	3/1/2024	active	U, 087, C	Y
Southside	Etowah/Gadsden MSA	01-055-0011	1450 Parker Anderson Lane, Southside	33.904039	-86.053867	Highest Concentration/ Neighborhood	4/26/2002	10/31/2022	U, 087, C	Y
Chickasaw	Mobile/Mobile MSA	01-097-0003	Iroquois and Azalea Chickasaw	30.770181	-88.087761	Population Exposure/ Neighborhood	3/2/1982	active	U, 087, C	Y
Bay Road	Mobile/Mobile MSA	01-097-2005	Bay Road, Mobile	30.474305	-88.141022	Population Exposure and Highest Concentration/	3/1/1999	active	U, 087, C	Y
MOMS, ADEM	Montgomery/Montgomery MSA	01-101-1002	1350 Coliseum Blvd, Montgomery	32.412811	-86.263394	Population Exposure/ Neighborhood	6/2/1993	active	U, 087, C	Y
Decatur	Morgan/Decatur MSA	01-103-0011	Wallace Development Center, Decatur	34.530717	-86.967536	Population Exposure/ Urban	4/1/2000	active	U, 087, C	Y
Phenix City - South Girard	Russell/Columbus GA-AL MSA	01-113-0003	510 6th Place South, Phenix City	32.437028	-84.999653	Highest Concentration/ Urban	3/1/2018	active	U, 087, C	Y
Helena	Shelby/Birmingham-Hoover MSA	01-117-0004	Bearden Farm, Helena	33.317142	-86.825754	Population Exposure/ Urban	1/1/1983	active	U, 087, C	Y
Ward, Sumter Co.	Sumter/no MSA	01-119-0003	NNE of Ward Post Office	32.362606	-88.277992	General/Background/ Regional	3/1/2013	active	U, 087, C	Y
Duncanville Middle	Tuscaloosa/Tuscaloosa MSA	01-125-0011	11205 Eagle Pkwy, Duncanville	33.095379	-87.481501	Population Exposure/ Urban	3/1/2022	active	U, 087, C	Y
U = UV Photometric Ozone Analyzer; C = Continuous										
¹ Scheduled to start 3/1/2024 ² Continued from Duncanville, Tuscaloosa 01-125-0010										

PM2.5

AQS ID	Site Common Name	County/CBSA	Address	Latitude	Longitude	Monitoring Objective/Scale	Date Began	Date Ended	Method, Method Code and Schedule	NAAQS
01-003-0010	Fairhope	Baldwin/Daphne-Fairhope-Foley MSA	Fairhope High School, Fairhope	30.497478	-87.880258	Population Exposure/ Neighborhood	1/1/2000	12/22/2022	L, 145, 3	Y
							1/1/2023	active	B, 209, C	Y
01-027-0001	Ashland	Clay/no MSA	Ashland Airport, Ashland	33.284928	-85.803608	Regional Transport/ Regional	1/1/1999	12/28/2022	L, 145, 3	Y
							1/1/2023	active	B, 209, C	Y
01-049-1003	Crossville	DeKalb/no MSA	13112 Hwy 68, Crossville	34.288567	-85.969858	General/Background/ Neighborhood	1/1/1999	12/31/2022	L, 145, 3	Y
							1/1/2023	active	B, 209, C	Y
01-055-0010	Gadsden C College	Etowah/ Gadsden MSA	1001 Wallace Drive, Gadsden	33.991494	-85.992647	Population Exposure/ Urban	1/1/2000	12/7/2021	L, 145, 3	Y
							12/7/2021	active	B, 209, C	Y
01-097-0003	Chickasaw	Mobile/Mobile MSA	Iroquois and Azalea, Chickasaw	30.770181	-88.087761	Population Exposure/ Regional	7/19/2002	12/31/2022	L, 145, 3	Y
							1/1/2011	12/31/2022	B, 731, C	N
							1/1/2023	active	B, 209, C	Y
01-101-0002	MOMS, ADEM ¹	Montgomery/ Montgomery MSA	1350 Coliseum Blvd, Montgomery	32.412811	-86.263394	Population Exposure/ Neighborhood	1/16/2009	2/14/2023	L, 145, 3	Y
							4/1/2009	12/31/2022	B, 731, C	N
							2/14/2023	active	B, 209, C	Y
							1/16/2009	active	L, 145, 6	Y
01-103-0011	Decatur ¹	Morgan/Decatur MSA	Wallace Ctr.Hwy 31, Decatur	34.530717	-86.967536	Population Exposure/ Middle	8/7/2001	12/31/2022	L, 145, 3	Y
							8/1/2020	1/31/2023	T, 236, C	N
							2/1/2023	active	B, 209, C	Y
01-113-0003	Phenix City - S. Girard School ¹	Russell/Columbus GA-AL MSA	510 6th Place South, Phenix City	32.437028	-84.999653	Highest Concentration/ Urban	9/18/2017	2/28/2023	B, 209, C	Y
							2/17/2023	active	L, 145, 3	Y
							1/18/2017	active	L, 145, 6	Y
01-119-0003	Ward, Sumter Co.	Sumter/no MSA	NNE of Ward Post Office, Ward	32.362606	-88.277992	General/Background/ Regional	1/1/2021	active	B, 209, C	Y
01-125-0004	VA, Tuscaloosa ¹	Tuscaloosa/ Tuscaloosa MSA	3701 Loop Road East, Tuscaloosa	33.189931	-87.484189	Population Exposure/ Neighborhood	10/1/2002	12/28/2022	L, 145, 3	Y
							1/1/2021	12/7/2022	L, 145, 6	Y
01-125-0011	Duncanville Middle School ²	Tuscaloosa/ Tuscaloosa MSA	11205 Eagle Pkwy, Duncanville	33.095379	-87.481501	Population Exposure/ Urban	1/1/2023	active	B, 209, C	Y

B = Beta Attenuation Monitor; L = Low Volume Sequential Sampler; T = T640; 3 = 24 hours every 3rd day; 6 = 24 hours every 6th day; C = Continuous

¹Site closed and PM monitoring moved to Duncanville Middle School 01-125-0011. ²New parameter at site.

PM10

Site Common Name	County / CBSA	AQS ID	Address	Latitude	Longitude	Monitoring Objective / Scale	Date Began	Date Ended	Method, Method Code and Schedule	NAAQS
MOMS, ADEM	Montgomery / Montgomery MSA	01-101-1002	1350 Coliseum Blvd, Montgomery	32.412811	-86.263394	Population Exposure/ Neighborhood	9/16/1993	active	L, 127, 6	Y
						Quality Assurance/ Neighborhood	1/1/2013	active	L, 127, 6	Y
Seals Park	Mobile/Mobile MSA	01-097-8001	540 Texas St, Mobile, AL 36603	30.679499	-88.04658	Population Exposure/ Neighborhood	Est. 7/1/2023	active	L, 127, 6	Y
							Est. 7/1/2023	active	B, 226, C	Y

L = Low Volume Sequential Sampler; B = Beta Attenuation Monitor; 6 = 24 hours every 6th day; C= continuous

SO₂

Site Common Name	County / CBSA	AQS ID	Address	Latitude	Longitude	Monitoring Objective / Scale	Date Began	Date Ended	Method, Method Code and Schedule	NAAQS
Chickasaw	Mobile / Mobile MSA	01-097-0003	Iroquois And Azalea, Chickasaw	30.76972	-88.0875	Population Exposure / Neighborhood	1/1/2013	active	P, 100, C	Y
Lhoist	Shelby / Birmingham-Hoover MSA	01-117-9001	7444 St. Hwy 25, Calera	33.0928	-86.8072	High Concentration – SO2 DRR / Middle	1/1/2017	active	P, 100, C	Y
Ward	Sumter / no MSA	01-119-0003	NNE of Ward Post Office, Ward	32.362606	-88.277992	General/Background / Regional	1/1/2018	active	P, 100, C	Y

P = Pulsed Fluorescent C = Continuous

Lead

Site Common Name	County/CBSA	AQS ID	Address	Latitude	Longitude	Monitoring Objective / Scale	Date Began	Date Ended	Method, Method Code and Schedule	NAAQS
Troy Lead	Pike/Troy μ SA	01-109-0003	Henderson Road, Troy	31.790479	-85.978974	Highest Concentration / Neighborhood	1/1/1979	active	Hi-Vol 813, 6	Y
							1/1/1979	active	Hi-Vol 813, 6	Y

Hi-Vol = Hi-Volume Total Suspended Particulate G = Lead Analysis by Graphite Furnace 6 = 24 hours every 6th day

NO2

Site Common Name	County / CBSA	AQS ID	Address	Latitude	Longitude	Monitoring Objective / Scale	Proposed Beginning Date	Date Ended	Method, Method Code and Schedule	NAAQS
Ward	Sumter / no MSA	01-119-0003	NNE of Ward Post Office, Ward	32.362606	-88.277992	General/Background / Regional	TBD		CAP, 212, C	N

CAP = Cavity Attenuated Phase Shift C = Continuous

Appendix A

Site Assessments with EJ Screening

All of ADEM's sites were evaluated for compliance and were found to meet the requirements of 40 CFR 58, Appendices A, C, D and E, as appropriate. Additionally, all sites were screened for environmental justice metrics using EPA's EJ Screen: Environmental Justice Screening and Mapping Tool. EJ Screening Standard Reports were obtained by dropping a pin at each longitude and latitude and are attached to each site evaluation.

The following issues were observed during site evaluations and any corrective actions noted.

Table 8 Issues observed during site assessments

Site	Issue	Correction
Troy AQS ID 01-109-0003	Tree dripline was 10.6m from the air inlet.	A large tree will need to be delimbed or removed soon.

ASHLAND
Ashland Airport, Ashland, Clay County

AQS ID 01-027-0001
33.284928, -85.803608



MSA: N/A 227.01 m to Airport Road

Property Type: Residential (private)

NORTH

SOUTH

EAST

WEST



Parameter	Monitoring Objective/Scale	Schedule	Start Date**	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
BAM-1022*	Regional Transport/Regional	Continuous	01-01-2023	209	Inlet Head	2.0 m	N/A	33.5 m	11.2 m Southeast

*This monitor is operating at time of evaluation. Method changes at this site are documented in the PM2.5 Pollutant Network Table.

** This site has been monitoring PM2.5 since 01/01/1999.

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 03/10/2023

1 mile Ring Centered at 33.284925,-85.803609, ALABAMA, EPA Region 4

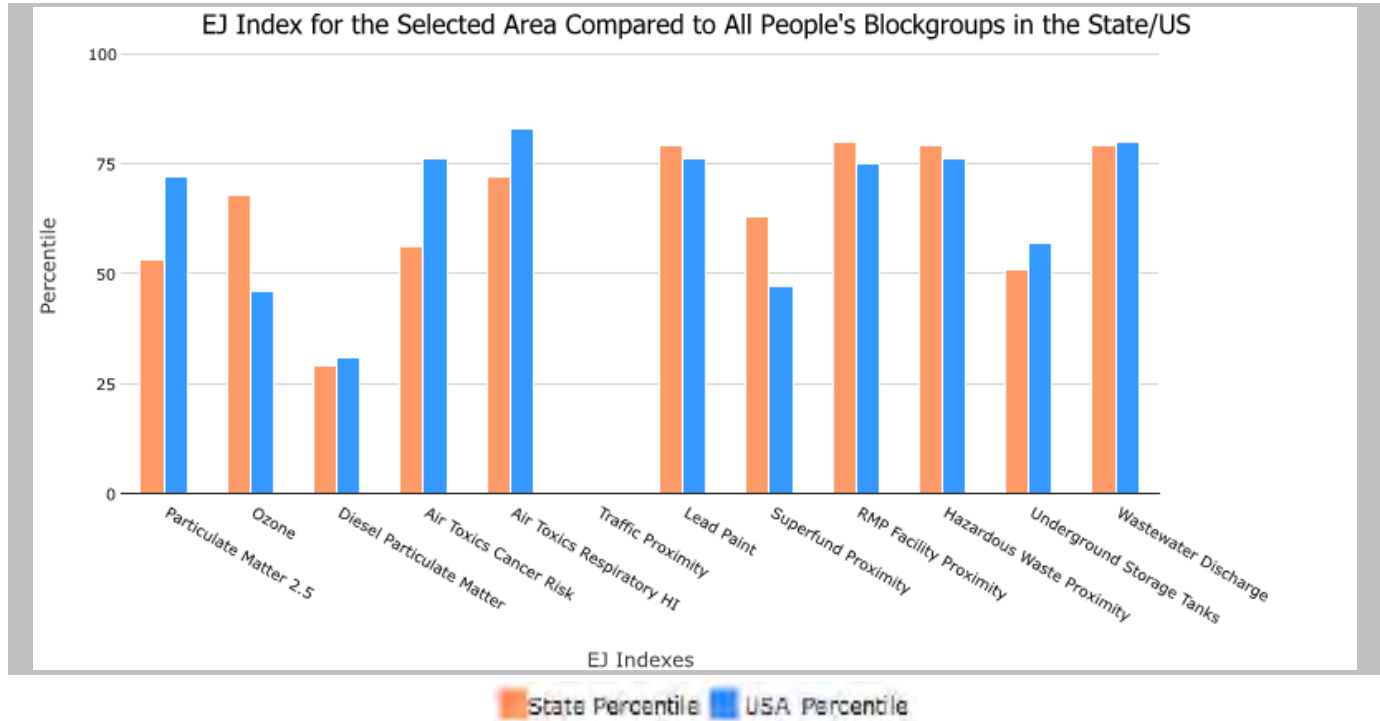
Approximate Population: 224

Input Area (sq. miles): 3.14

ASHLAND AQS ID 01-027-0011

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	53	72
Ozone EJ index	68	46
Diesel Particulate Matter EJ index*	29	31
Air Toxics Cancer Risk EJ index*	56	76
Air Toxics Respiratory HI EJ index*	72	83
Traffic Proximity EJ index	N/A	N/A
Lead Paint EJ index	79	76
Superfund Proximity EJ index	63	47
RMP Facility Proximity EJ index	80	75
Hazardous Waste Proximity EJ index	79	76
Underground Storage Tanks EJ index	51	57
Wastewater Discharge EJ index	79	80

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

BAY ROAD
Bay Road, Theodore, Mobile County

AQS ID 01-097-2005
30.474305, -88.141022



MSA: Mobile 68.5 m to Bay Road

Property Type: Agricultural (county)

NORTH

SOUTH

EAST

WEST



Parameter	Monitoring Objective/ Scale	Schedule	Start Date	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
Ozone	Population Exposure and Highest Concentration/ Urban	Continuous	03/01/1999	087	Teflon	4.4m	1.2m	34.4 m	13.8 m South

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 03/30/2023

1 mile Ring Centered at 30.474304,-88.141020, ALABAMA, EPA Region 4

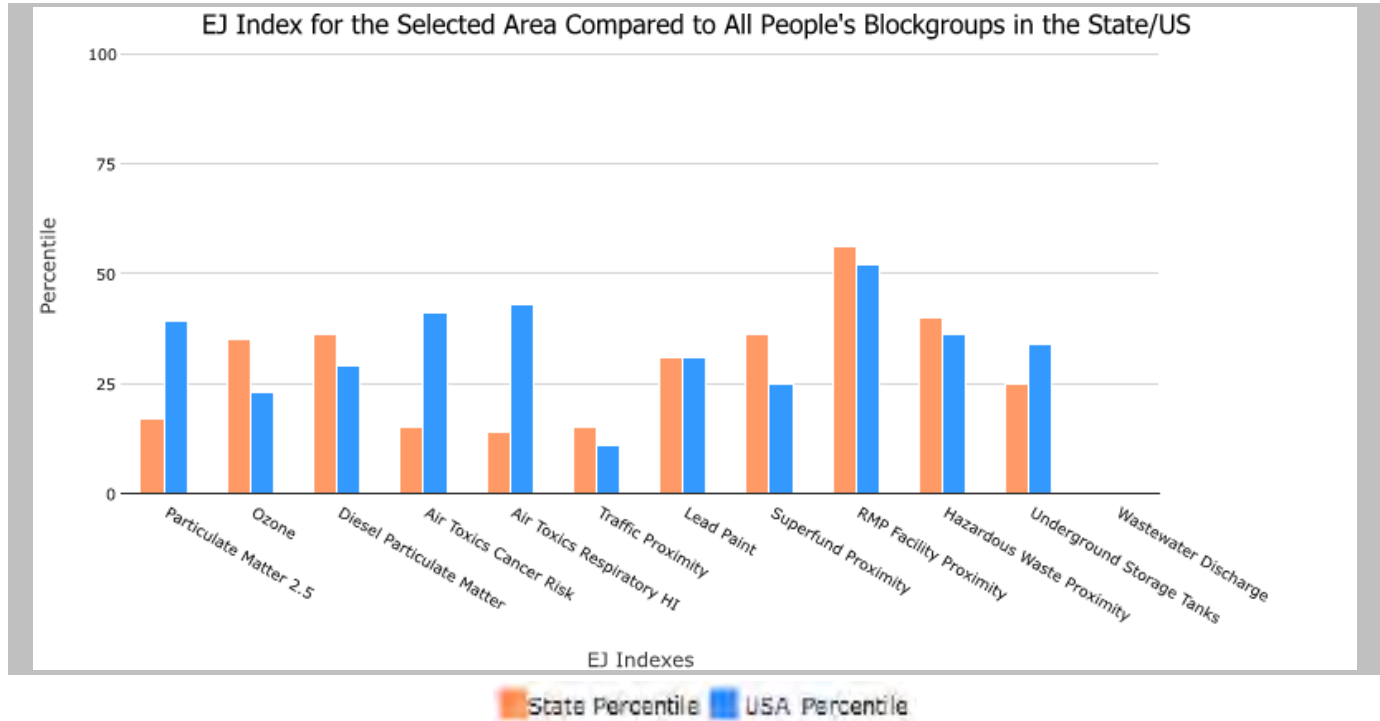
Approximate Population: 375

Input Area (sq. miles): 3.14

BAY ROAD AQS ID 01-097-2005

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	17	39
Ozone EJ index	35	23
Diesel Particulate Matter EJ index*	36	29
Air Toxics Cancer Risk EJ index*	15	41
Air Toxics Respiratory HI EJ index*	14	43
Traffic Proximity EJ index	15	11
Lead Paint EJ index	31	31
Superfund Proximity EJ index	36	25
RMP Facility Proximity EJ index	56	52
Hazardous Waste Proximity EJ index	40	36
Underground Storage Tanks EJ index	25	34
Wastewater Discharge EJ index	0	0

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



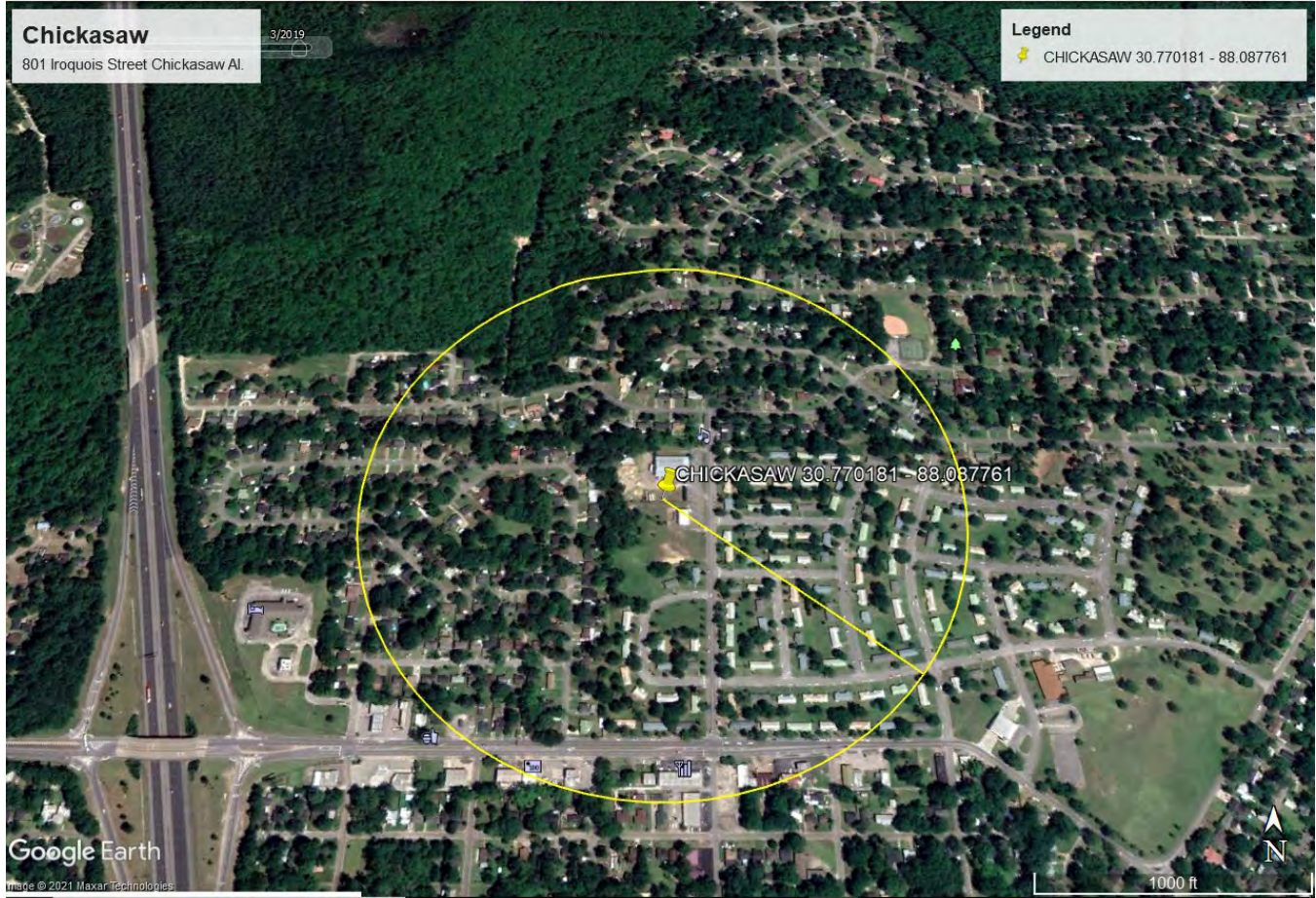
*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

CHICKASAW

801 Iroquois St., Chickasaw, Mobile County

AQS ID 01-097-0003

30.770181, -88.087761



MSA: Mobile 58.9 m from Iroquois St

Property Type: Commercial (city)

NORTH



SOUTH



EAST



WEST



Parameter	Monitoring Objective/ Scale	Schedule	Start Date**	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
Ozone	Population Exposure/ Neighborhood	Continuous	03/02/1982	087	Teflon/ Teflon	4.3m	1.2 m	12.8 m	4.2 m Southwest
SO2			01/01/2013	100	Teflon/ Teflon	4.8m	1.7 m	15.2 m	
BAM-1022*	Population Exposure/ Regional		01/01/2023	209	Inlet Head	2.0 m	2.1 m	7.9 m	

*This monitor is operating at time of evaluation. Method changes at this site are documented in the PM2.5 Pollutant Network Table.

** This site has been monitoring PM2.5 since 01/01/2015.

This site meets all requirements of 40 CFR Part 58.

1 mile Ring Centered at 30.770183,-88.087772, ALABAMA, EPA Region 4

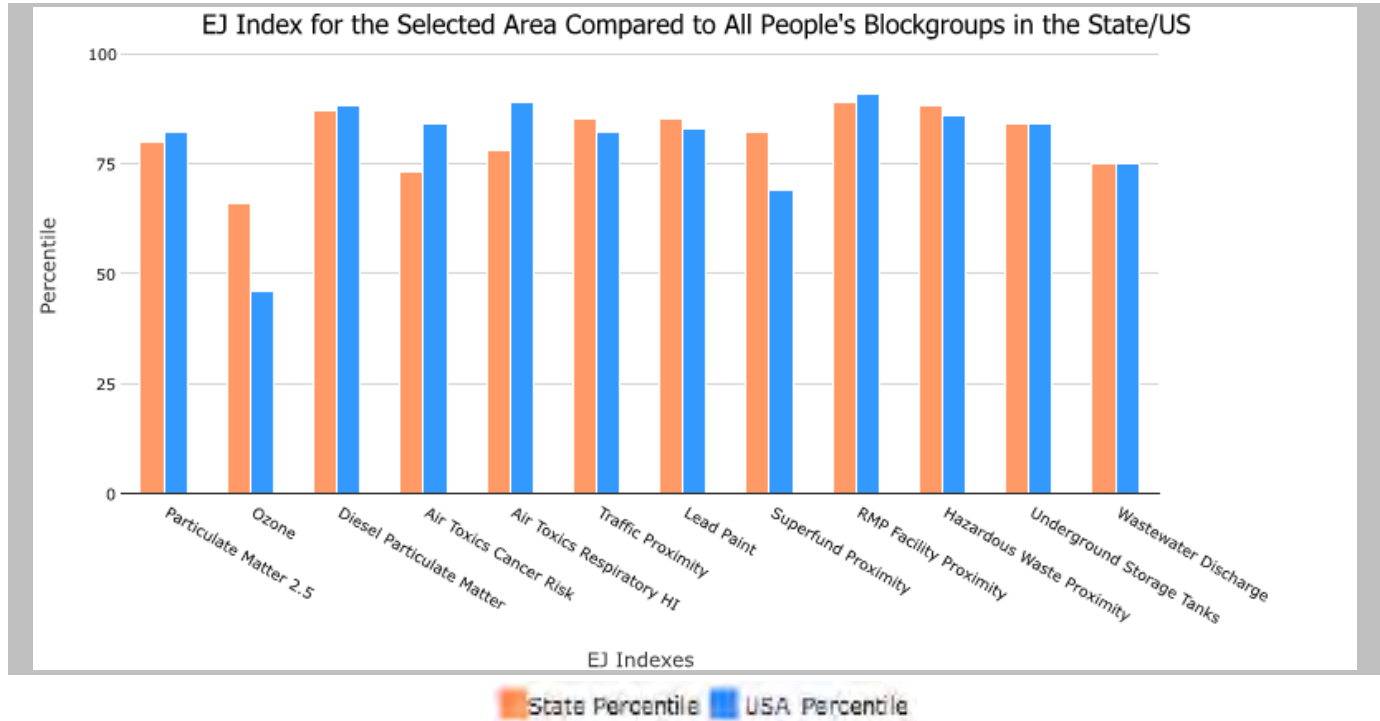
Approximate Population: 5,605

Input Area (sq. miles): 3.14

CHICKASAW AQS ID 01-097-0003

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	80	82
Ozone EJ index	66	46
Diesel Particulate Matter EJ index*	87	88
Air Toxics Cancer Risk EJ index*	73	84
Air Toxics Respiratory HI EJ index*	78	89
Traffic Proximity EJ index	85	82
Lead Paint EJ index	85	83
Superfund Proximity EJ index	82	69
RMP Facility Proximity EJ index	89	91
Hazardous Waste Proximity EJ index	88	86
Underground Storage Tanks EJ index	84	84
Wastewater Discharge EJ index	75	75

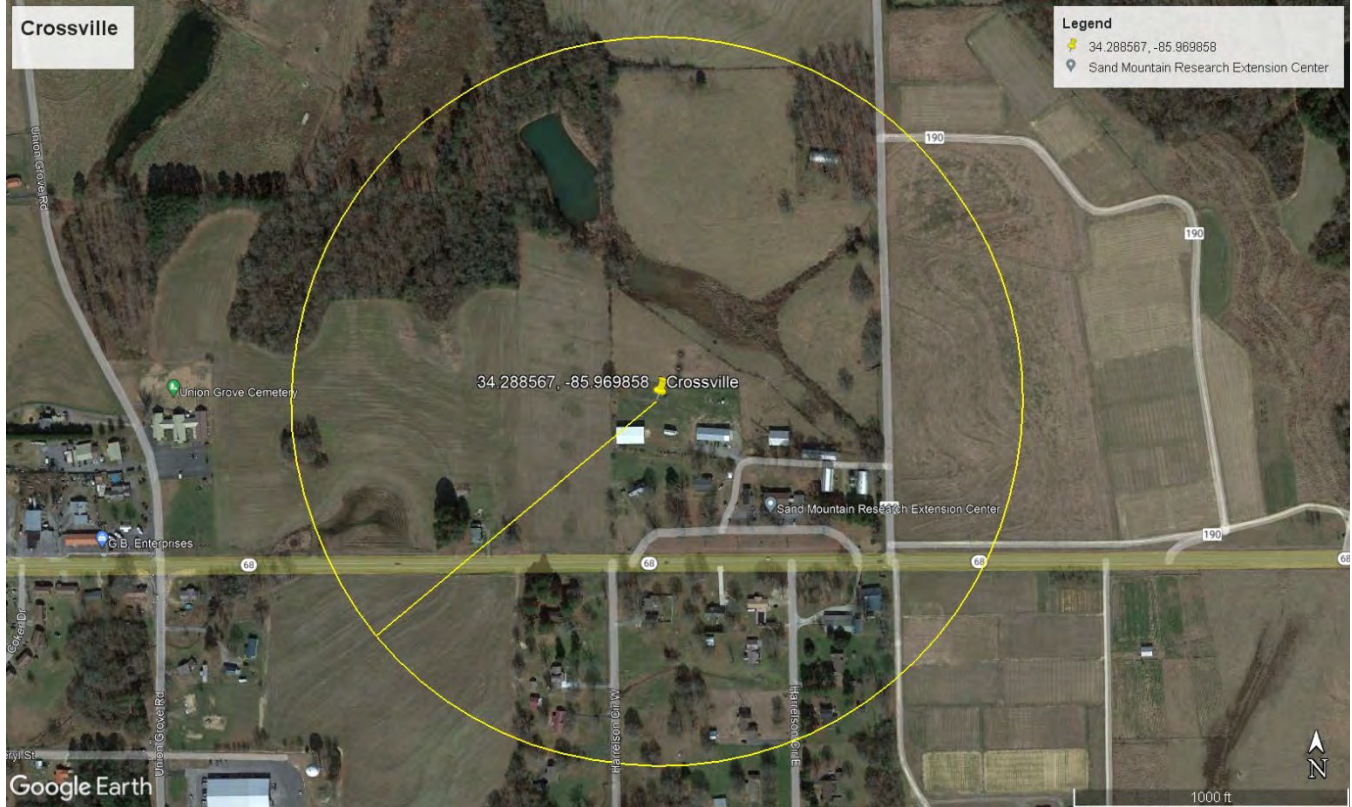
EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

CROSSVILLE
13112 Highway 68, Crossville, DeKalb County

AQS ID 01-049-1003
34.288567, -85.969858



µSA: Fort Payne 172.2 m from Hwy 68

Property Type: Agricultural

NORTH

SOUTH

EAST

WEST



Parameter	Monitoring Objective/Scale	Schedule	Start Date**	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
BAM-1022*	General Background/Neighborhood	Continuous	01/01/2023	209	Inlet Head	2.0 m	N/A	23.5 m	9.8 m East

*This monitor is operating at time of evaluation. Method changes at this site are documented in the PM2.5 Pollutant Network Table.

**This site has been monitoring PM2.5 since 10/01/2002.

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 03/01/2023

1 mile Ring Centered at 34.288550,-85.969847, ALABAMA, EPA Region 4

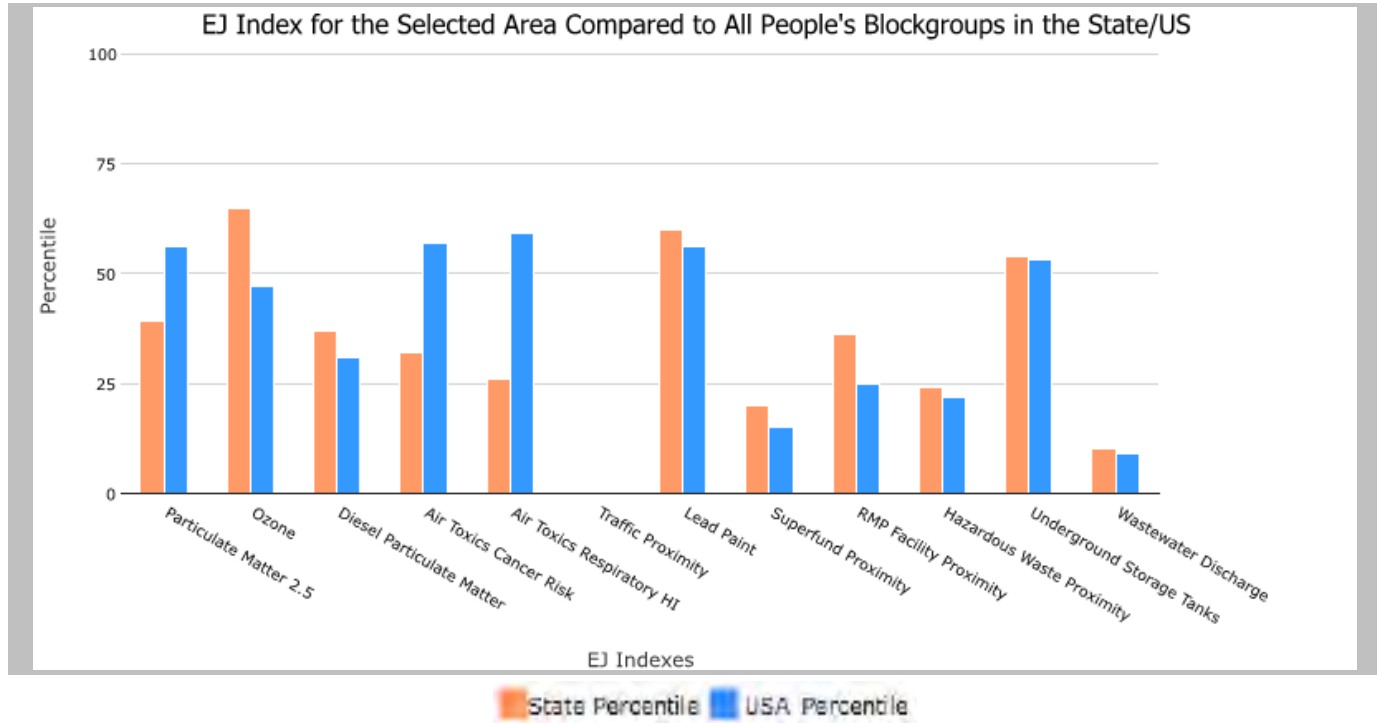
Approximate Population: 325

Input Area (sq. miles): 3.14

CROSSVILLE AQS ID 01-049-1003

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	39	56
Ozone EJ index	65	47
Diesel Particulate Matter EJ index*	37	31
Air Toxics Cancer Risk EJ index*	32	57
Air Toxics Respiratory HI EJ index*	26	59
Traffic Proximity EJ index	0	0
Lead Paint EJ index	60	56
Superfund Proximity EJ index	20	15
RMP Facility Proximity EJ index	36	25
Hazardous Waste Proximity EJ index	24	22
Underground Storage Tanks EJ index	54	53
Wastewater Discharge EJ index	10	9

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

DECATUR
JH Crow Drive, Decatur, Morgan County

AQS ID 01-103-0011
34.530717, -86.967536



MSA: Decatur 507.37 m to Hwy 31

Property Type: Commercial

NORTH



SOUTH



EAST



WEST



Parameter	Monitoring Objective/ Scale	Schedule	Start Date**	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
Ozone	Population Exposure/Urban	Continuous	04/01/2000	047	Teflon/Teflon	4.3 m	1.7 m	21.7 m	14.4 m Southwest
BAM-1022*	Population Exposure/Middle	Continuous	02/01/2023	209	Inlet Head	4.6 m	2.1 m	25.0 m	

*This monitor is operating at time of evaluation. Method changes at this site are documented in the PM2.5 Pollutant Network Table.

** This site has been monitoring PM2.5 since 01/01/1999.

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 01/23/2023

1 mile Ring Centered at 34.530702,-86.967466, ALABAMA, EPA Region 4

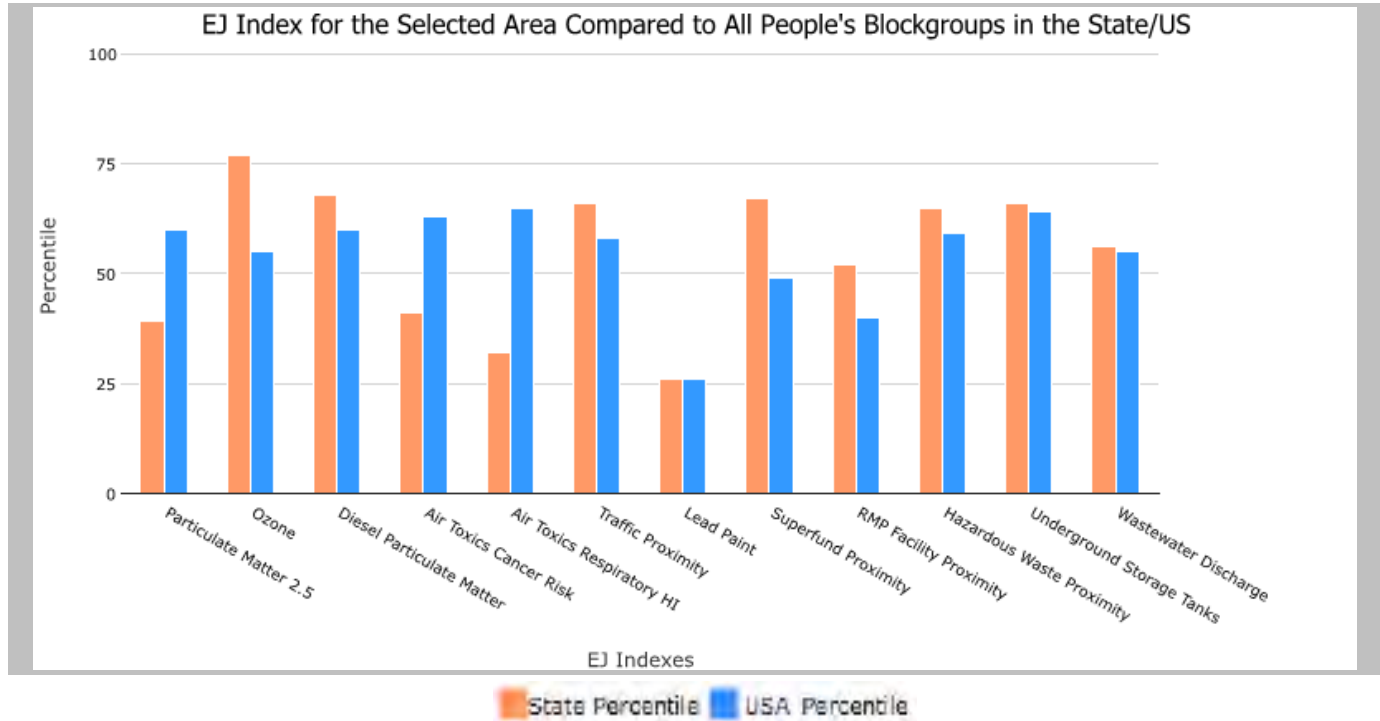
Approximate Population: 323

Input Area (sq. miles): 3.14

DECATUR AQS ID 01-103-0011

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	39	60
Ozone EJ index	77	55
Diesel Particulate Matter EJ index*	68	60
Air Toxics Cancer Risk EJ index*	41	63
Air Toxics Respiratory HI EJ index*	32	65
Traffic Proximity EJ index	66	58
Lead Paint EJ index	26	26
Superfund Proximity EJ index	67	49
RMP Facility Proximity EJ index	52	40
Hazardous Waste Proximity EJ index	65	59
Underground Storage Tanks EJ index	66	64
Wastewater Discharge EJ index	56	55

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

DUNCANVILLE MIDDLE SCHOOL
 Duncanville, Tuscaloosa County

AQS ID 01-125-0011
 33.095379, -87.481507



MSA: Tuscaloosa

Property Type: Commercial

NORTH

SOUTH

EAST

WEST



Parameter	Monitoring Objective/Scale	Schedule	Start Date	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
Ozone	Population	Continuous	03/02/2022	087	Teflon	4.4 m	1.6m	28.3 m	7.6 m NW
BAM-1022	Exposure		01/01/2023	209	Inlet	4.7 m	2.0 m	30.9 m	

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 03/01/2023

1 mile Ring Centered at 33.095378,-87.481502, ALABAMA, EPA Region 4

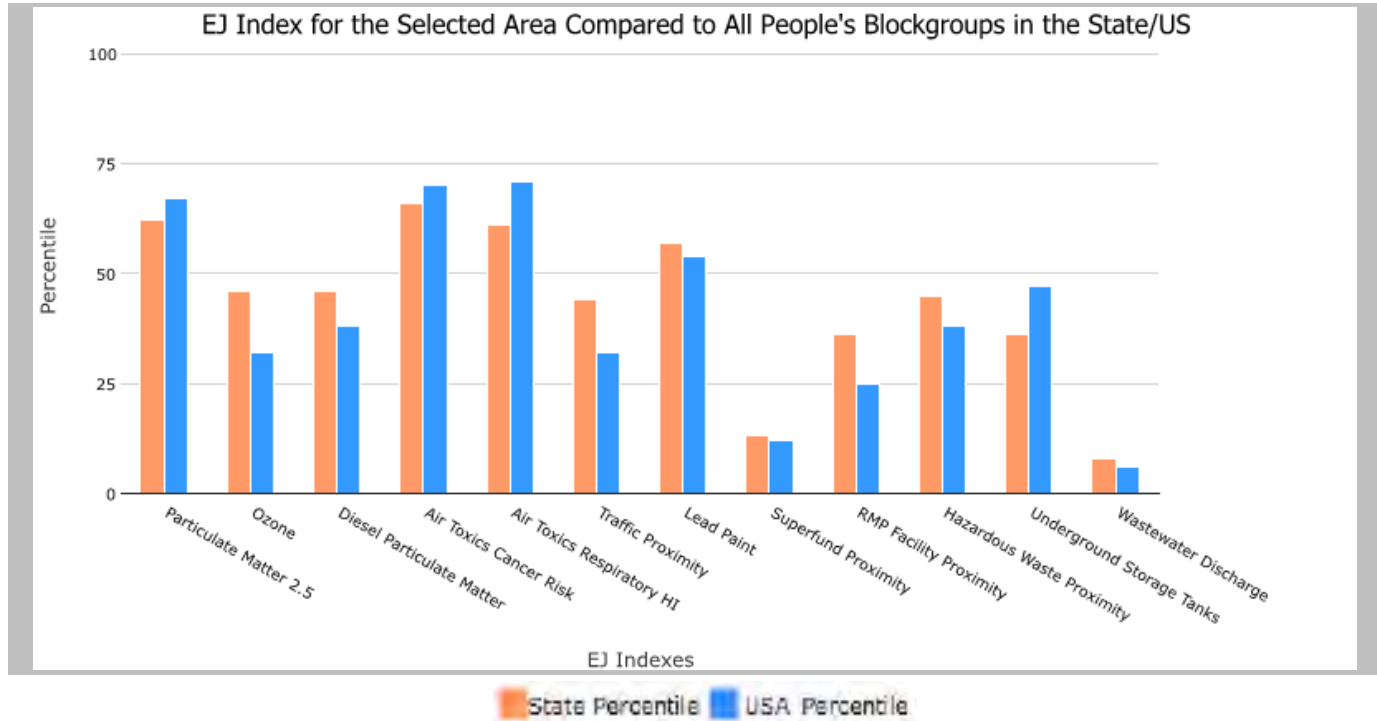
Approximate Population: 208

Input Area (sq. miles): 3.14

Duncanville Middle School

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	62	67
Ozone EJ index	46	32
Diesel Particulate Matter EJ index*	46	38
Air Toxics Cancer Risk EJ index*	66	70
Air Toxics Respiratory HI EJ index*	61	71
Traffic Proximity EJ index	44	32
Lead Paint EJ index	57	54
Superfund Proximity EJ index	13	12
RMP Facility Proximity EJ index	36	25
Hazardous Waste Proximity EJ index	45	38
Underground Storage Tanks EJ index	36	47
Wastewater Discharge EJ index	8	6

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

FAIRHOPE

1 Pirate Drive, Fairhope, Baldwin County

AQS ID 01-003-0010

30.497478, -87.880258



MSA: Daphne-Fairhope-Foley 549.7 m from Pirate Drive

Property Type: Commercial (county)

NORTH

SOUTH

EAST

WEST



Parameter	Monitoring Objective/ Scale	Schedule	Start Date**	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
Ozone	Population Exposure/ Neighborhood	Continuous	03/01/2000	087	Teflon	4.4 m	1.8 m	21.9 m	7.2 m
Bam-1022*			01/01/2023	209	Inlet Head	2.0 m	N/A	21.3 m	Northeast

*This monitor is operating at time of evaluation. Method changes at this site are documented in the PM2.5 Pollutant Network Table

**This site has been monitoring for PM2.5 since 01/01/2000.

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 02/23/2023

1 mile Ring Centered at 30.497490,-87.880301, ALABAMA, EPA Region 4

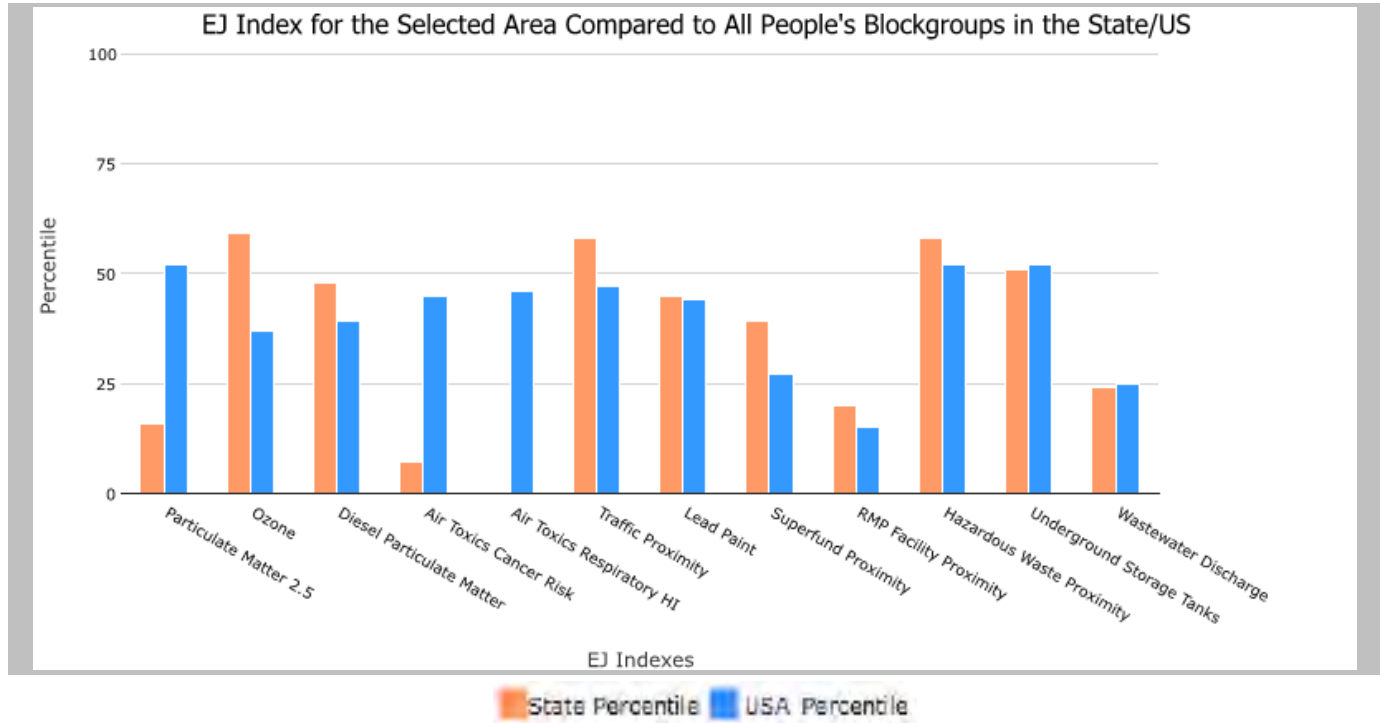
Approximate Population: 2,848

Input Area (sq. miles): 3.14

FAIRHOPE AQS ID 01-003-0010

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	16	52
Ozone EJ index	59	37
Diesel Particulate Matter EJ index*	48	39
Air Toxics Cancer Risk EJ index*	7	45
Air Toxics Respiratory HI EJ index*	0	46
Traffic Proximity EJ index	58	47
Lead Paint EJ index	45	44
Superfund Proximity EJ index	39	27
RMP Facility Proximity EJ index	20	15
Hazardous Waste Proximity EJ index	58	52
Underground Storage Tanks EJ index	51	52
Wastewater Discharge EJ index	24	25

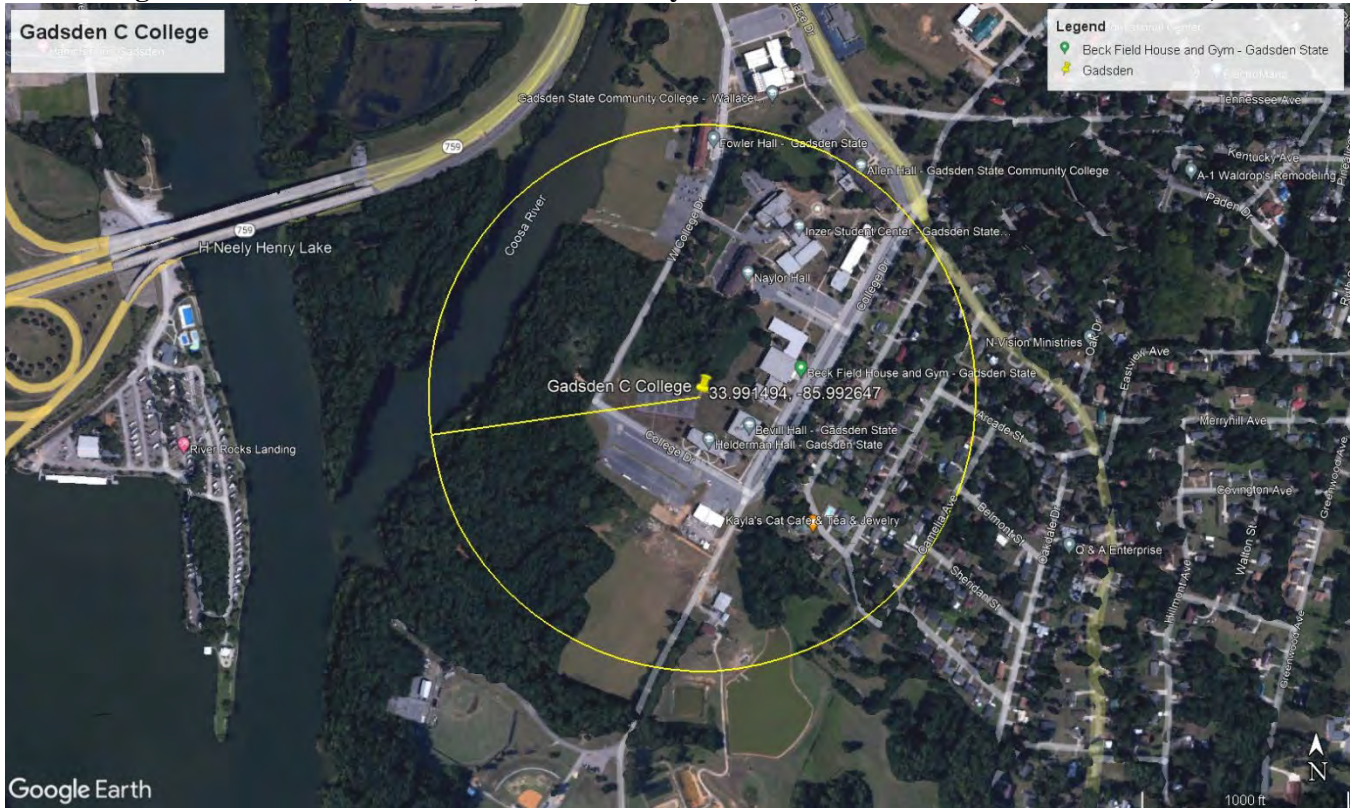
EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

GADSDEN C COLLEGE
1001 George Wallace Drive, Gadsden, Etowah County

AQS ID 01-055-0011
33.991494, -85.992647



MSA: Gadsden 411.4 m from George Wallace Dr.

Property Type: Commercial

NORTH



SOUTH



EAST



WEST



Parameter	Monitoring Objective/ Scale	Schedule	Start Date	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
BAM-1022	Population Exposure/ Urban	Continuous	10-01-2002	209	Inlet Head	2.1 m	N/A	12.2 m	8.6 m North

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 02/13/2023

EJScreen Report (Version 2.11)



1 mile Ring Centered at 33.991465,-85.992647, ALABAMA, EPA Region 4

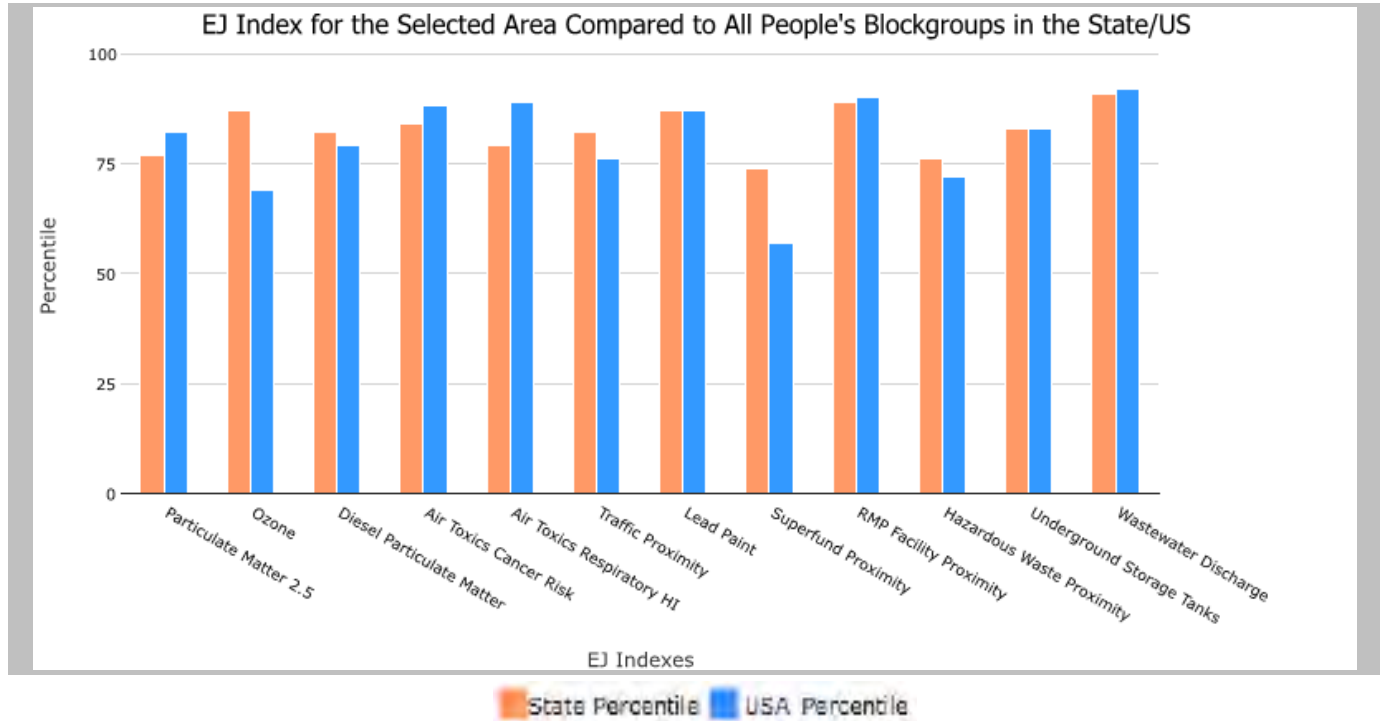
Approximate Population: 3,592

Input Area (sq. miles): 3.14

GADSDEN C COLLEGE AQS ID 01-055-0010

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	77	82
Ozone EJ index	87	69
Diesel Particulate Matter EJ index*	82	79
Air Toxics Cancer Risk EJ index*	84	88
Air Toxics Respiratory HI EJ index*	79	89
Traffic Proximity EJ index	82	76
Lead Paint EJ index	87	87
Superfund Proximity EJ index	74	57
RMP Facility Proximity EJ index	89	90
Hazardous Waste Proximity EJ index	76	72
Underground Storage Tanks EJ index	83	83
Wastewater Discharge EJ index	91	92

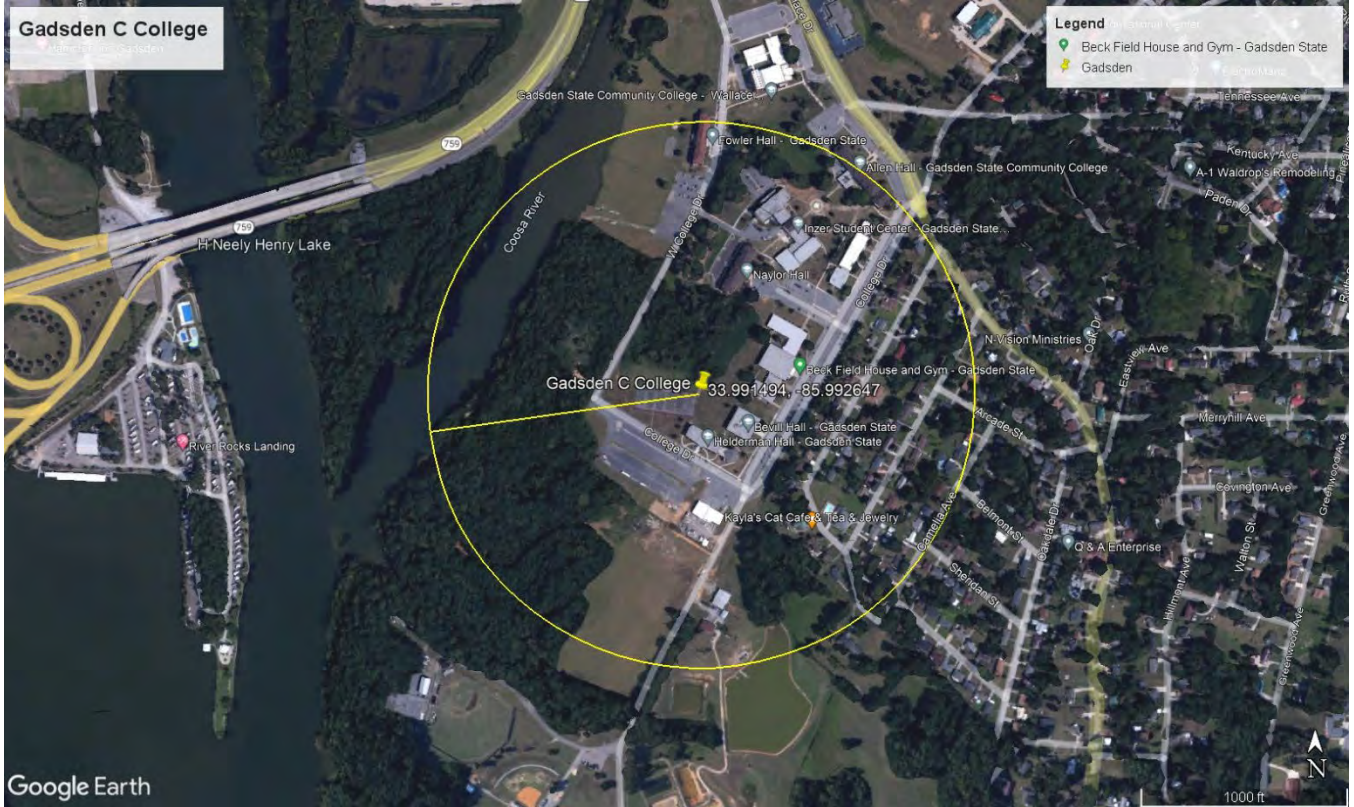
EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

GADSDEN C COLLEGE
1001 George Wallace Drive, Gadsden, Etowah County

AQS ID 01-055-0011
33.991494, -85.992647



MSA: Gadsden 411.4 m from George Wallace Dr.

Property Type: Commercial

NORTH



SOUTH



EAST



WEST



Parameter	Monitoring Objective/ Scale	Schedule	Start Date	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
BAM-1022	Population Exposure/ Urban	Continuous	10-01-2002	209	Inlet Head	2.1 m	N/A	12.2 m	8.6 m North

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 02/13/2023

1 mile Ring Centered at 33.991465,-85.992647, ALABAMA, EPA Region 4

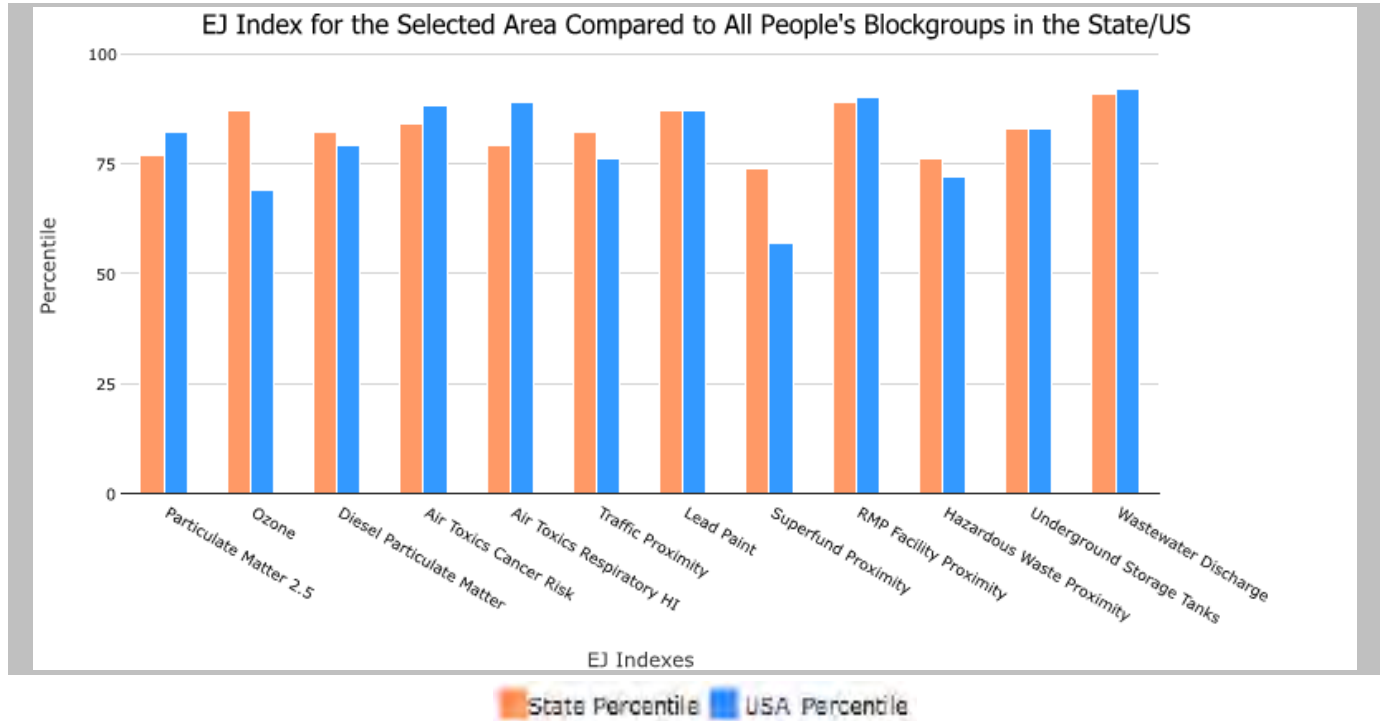
Approximate Population: 3,592

Input Area (sq. miles): 3.14

GADSDEN C COLLEGE AQS ID 01-055-0010

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	77	82
Ozone EJ index	87	69
Diesel Particulate Matter EJ index*	82	79
Air Toxics Cancer Risk EJ index*	84	88
Air Toxics Respiratory HI EJ index*	79	89
Traffic Proximity EJ index	82	76
Lead Paint EJ index	87	87
Superfund Proximity EJ index	74	57
RMP Facility Proximity EJ index	89	90
Hazardous Waste Proximity EJ index	76	72
Underground Storage Tanks EJ index	83	83
Wastewater Discharge EJ index	91	92

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

HELENA

237 Limestone Drive, Helena, Shelby County

AQS ID 01-117-0004

33.317142, -86.825754



MSA: Birmingham-Hoover 33.5m to Limestone Drive

Property Type: Agricultural (private)

NORTH



SOUTH



EAST



WEST



Parameter	Monitoring Objective/Scale	Schedule	Start Date	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
Ozone	Population Exposure/Urban	Continuous	01/01/1983	087	Teflon/Teflon	4.4 m	1.6 m	15.5 m	13 m North

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 03/01/2023

1 mile Ring Centered at 33.317140,-86.825754, ALABAMA, EPA Region 4

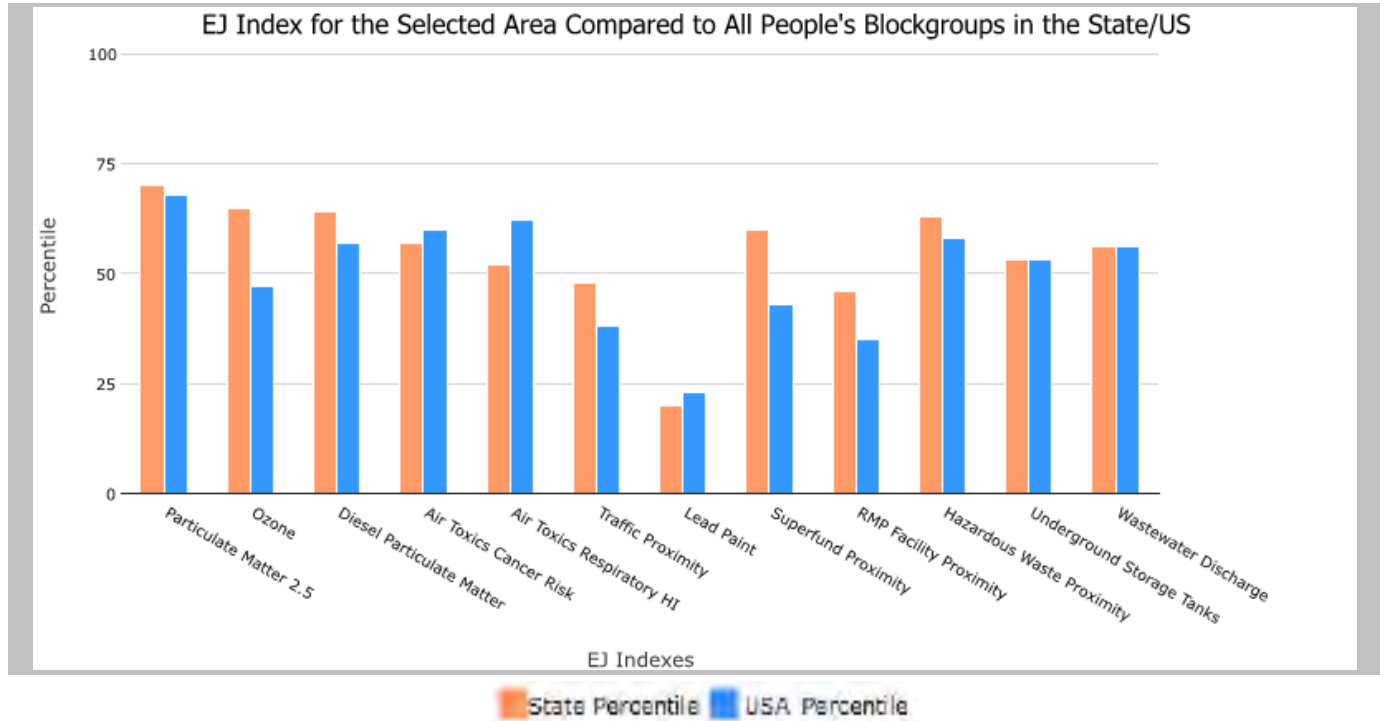
Approximate Population: 3,097

Input Area (sq. miles): 3.14

HELENA AQS ID 01-117-0004

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	70	68
Ozone EJ index	65	47
Diesel Particulate Matter EJ index*	64	57
Air Toxics Cancer Risk EJ index*	57	60
Air Toxics Respiratory HI EJ index*	52	62
Traffic Proximity EJ index	48	38
Lead Paint EJ index	20	23
Superfund Proximity EJ index	60	43
RMP Facility Proximity EJ index	46	35
Hazardous Waste Proximity EJ index	63	58
Underground Storage Tanks EJ index	53	53
Wastewater Discharge EJ index	56	56

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

LHOIST, MONTEVALLO PLANT
 7444 Highway 25, Calera, Shelby County

AQS ID 01-017-9001
 33.0928, -86.8072



MSA: Birmingham-Hoover 22 m from Hwy 25

Property Type: Industrial (private)

NORTH



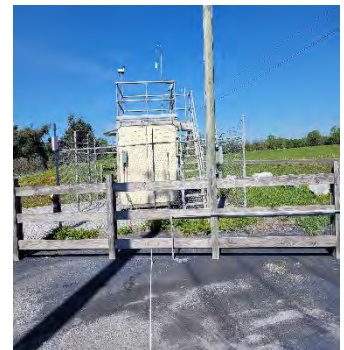
SOUTH



EAST



WEST



Parameter	Monitoring Objective/ Scale	Schedule	Start Date	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
SO2	Highest Concentration/ Middle	Continuous	01/01/2017	100	Teflon	3.9 m	1.5 m	17.7 m	4.0 m Southwest

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 04/11/2023

1 mile Ring Centered at 33.092865,-86.807216, ALABAMA, EPA Region 4

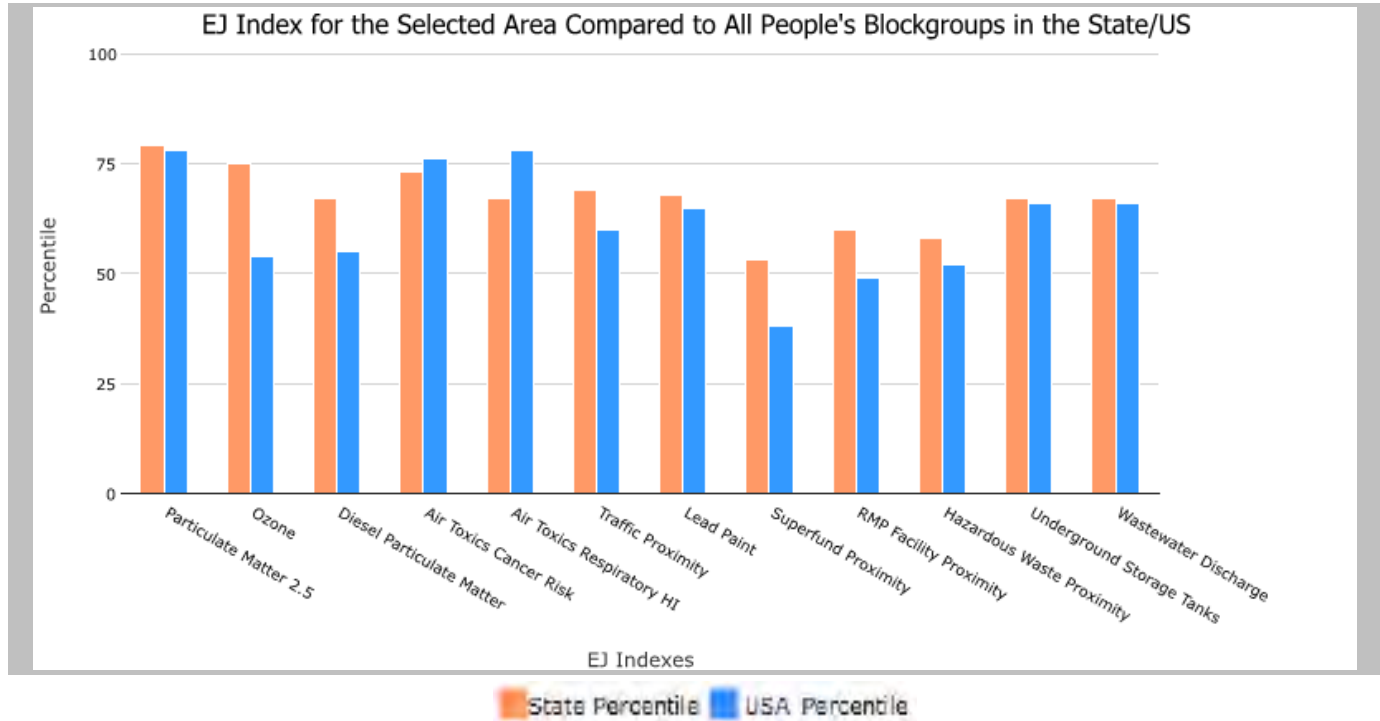
Approximate Population: 226

Input Area (sq. miles): 3.14

LHOIST AQS ID 01-017-9001

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	79	78
Ozone EJ index	75	54
Diesel Particulate Matter EJ index*	67	55
Air Toxics Cancer Risk EJ index*	73	76
Air Toxics Respiratory HI EJ index*	67	78
Traffic Proximity EJ index	69	60
Lead Paint EJ index	68	65
Superfund Proximity EJ index	53	38
RMP Facility Proximity EJ index	60	49
Hazardous Waste Proximity EJ index	58	52
Underground Storage Tanks EJ index	67	66
Wastewater Discharge EJ index	67	66

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

MOMS, ADEM

1350 Coliseum Boulevard, Montgomery, Montgomery County

AQS ID 01-101-1002

32.412811, -86.263394



MSA: Montgomery 285.75 m to Coliseum Boulevard

Property Type: Commercial (state)

NORTH

SOUTH

EAST

WEST



Parameter	Monitoring Objective/Scale	Schedule	Start Date**	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance between collocated samplers	Distance from probe to nearest tree dripline	Height of nearest tree/Direction
Ozone	Population	Continuous	06/02/1993	087	Teflon	4.3 m	1.8 m	N/A	64.0 m	10.2 m
BAM-1022*	Exposure/Neighborhood	1/6 day	01/01/2023	209	Inlet Head	4.7 m	2.0 m	1.1 m	65.3 m	West
PM 2.5 CO	01/16/2009		731	4.6 m		2.1 m	1.1 m	64.4 m		
PM 10	09/16/1993		127	3.2 m		2.1 m	1.3 m	57.0 m		
PM 10 CO	01/01/2013		3.2 m	2.1 m		1.3 m	58.6 m			

*This monitor is operating at time of evaluation. Method changes at this site are documented in the PM2.5 Pollutant Network Table.

** This site has been monitoring PM2.5 since 01/16/2009.

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 03/22/2023

1 mile Ring Centered at 32.412795,-86.263389, ALABAMA, EPA Region 4

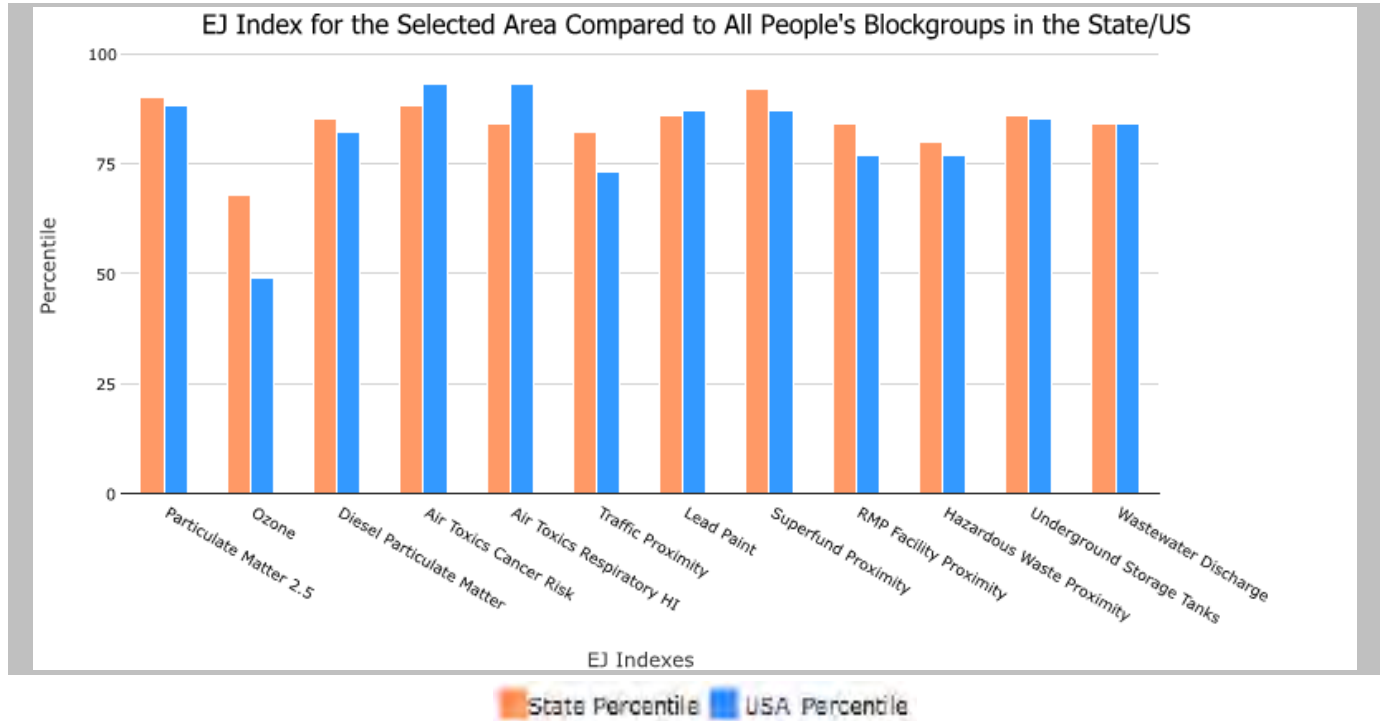
Approximate Population: 4,107

Input Area (sq. miles): 3.14

MOMS, ADEM AQS ID 01-101-1002

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	90	88
Ozone EJ index	68	49
Diesel Particulate Matter EJ index*	85	82
Air Toxics Cancer Risk EJ index*	88	93
Air Toxics Respiratory HI EJ index*	84	93
Traffic Proximity EJ index	82	73
Lead Paint EJ index	86	87
Superfund Proximity EJ index	92	87
RMP Facility Proximity EJ index	84	77
Hazardous Waste Proximity EJ index	80	77
Underground Storage Tanks EJ index	86	85
Wastewater Discharge EJ index	84	84

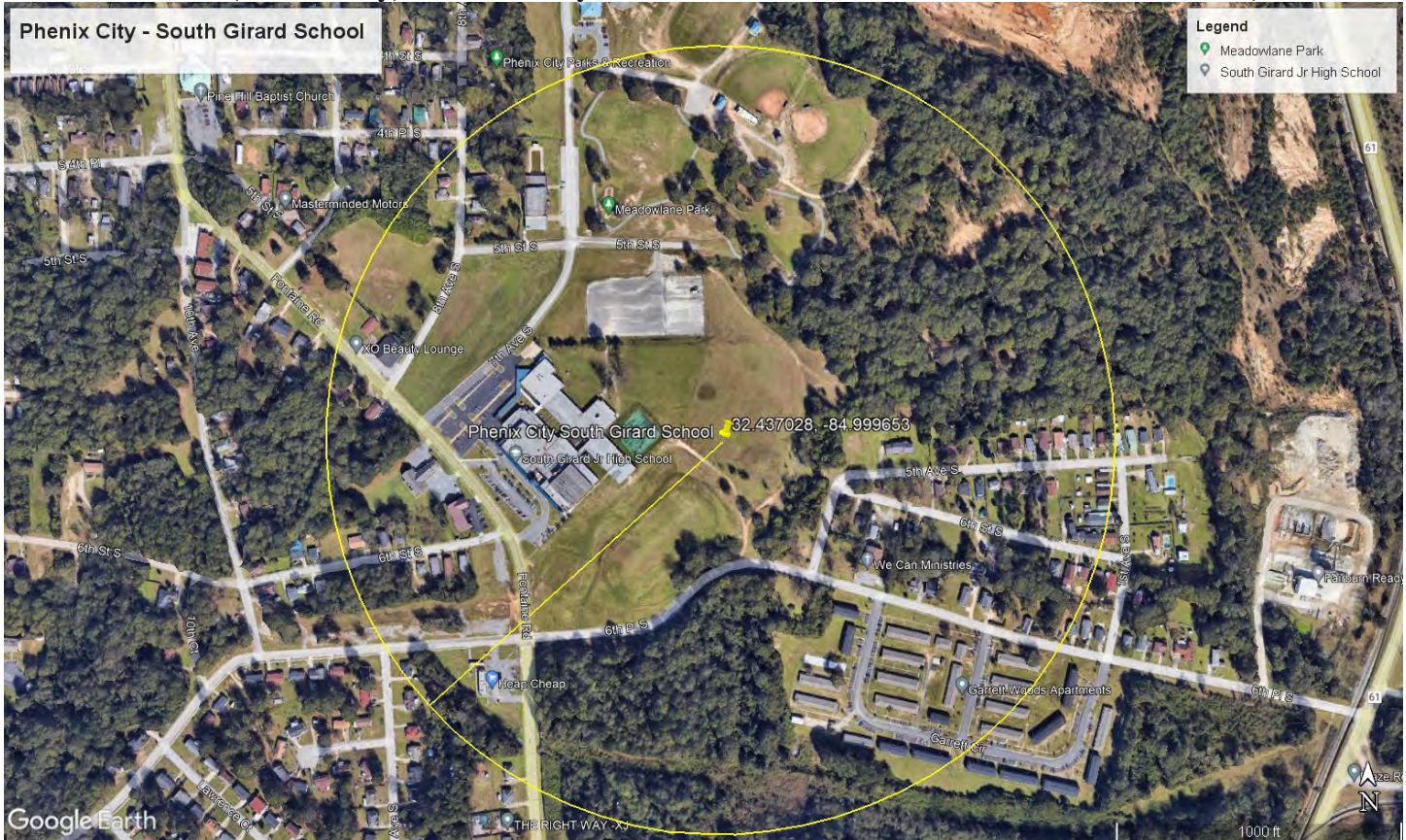
EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

PHENIX CITY-SOUTH GIRARD SCHOOL
510 6th Place South, Phenix City, Russell County

AQS ID 01-113-0003
32.437028, -84.999653



MSA: Columbus GA-AL 108.24 m to 6th Place South

Property Type: Commercial (city)

NORTH



SOUTH



EAST



WEST



Parameter	Monitoring Objective/Scale	Schedule	Start Date**	AQS Method	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance between collocated samplers	Distance from probe to nearest tree dripline	Height nearest tree/ Direction
Ozone	Highest	Continuous	03/01/2018	087	Teflon	4.5 m	1.8 m	N/A	42+m	9.6 m S
PM2.5*	Concentration /Urban	1/3 day	02/17/2023	145	Inlet	4.7 m	2.1 m	1.3 m		
PM2.5CO		1/6 day	01/18/2017	145	Inlet	4.7 m	2.1 m	1.3 m		
SASS	Population	1/6 day	06/12/2017	811	Inlet	4.3 m	1.6 m	N/A		
URG	Exposure/No scale		06/12/2017	812	Inlet	4.7m	2.0 m			

*This monitor is operating at time of evaluation. Method changes at this site are documented in the PM2.5 Pollutant Network Table.

** This site has been monitoring PM2.5 since 01/18/2017.

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 03/08/2023

1 mile Ring Centered at 32.437044,-84.999514, ALABAMA, EPA Region 4

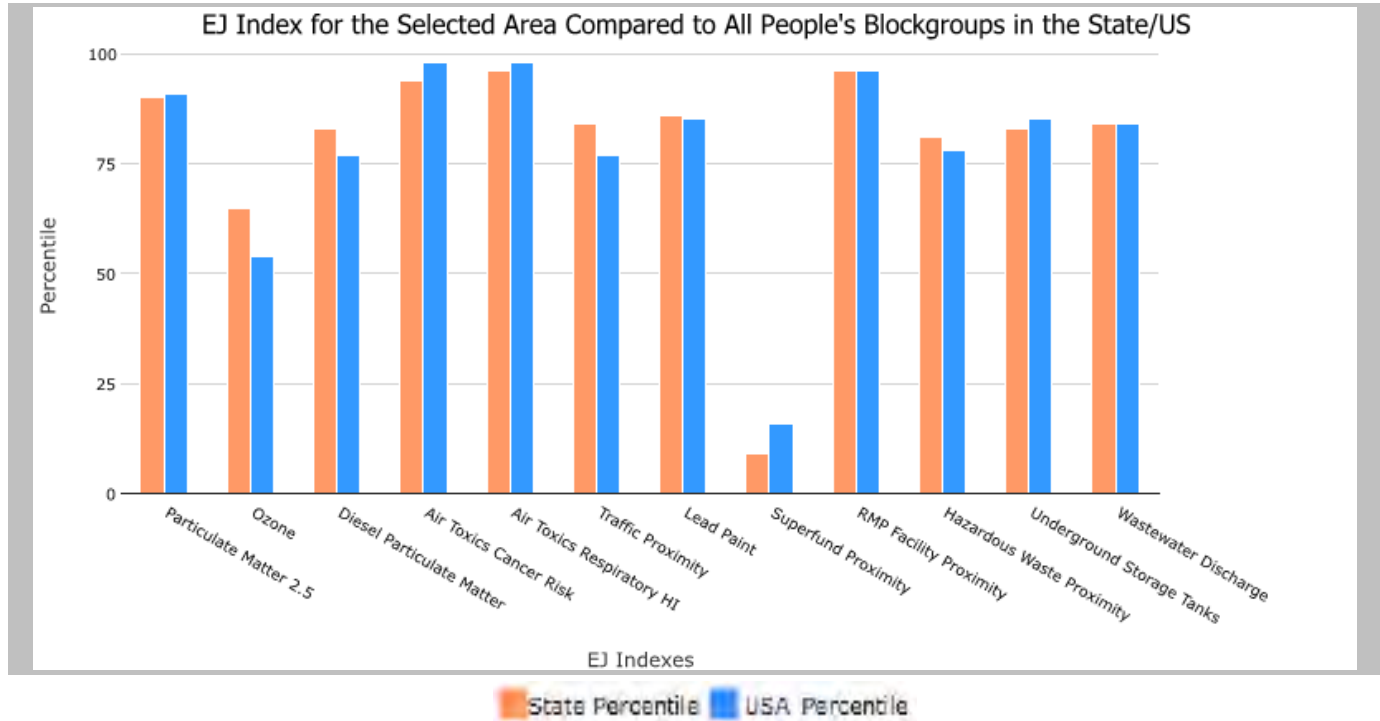
Approximate Population: 2,797

Input Area (sq. miles): 3.14

PHENIX CITY - SOUTH GIRARD SCHOOL AQS ID 01-113-0003

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	90	91
Ozone EJ index	65	54
Diesel Particulate Matter EJ index*	83	77
Air Toxics Cancer Risk EJ index*	94	98
Air Toxics Respiratory HI EJ index*	96	98
Traffic Proximity EJ index	84	77
Lead Paint EJ index	86	85
Superfund Proximity EJ index	9	16
RMP Facility Proximity EJ index	96	96
Hazardous Waste Proximity EJ index	81	78
Underground Storage Tanks EJ index	83	85
Wastewater Discharge EJ index	84	84

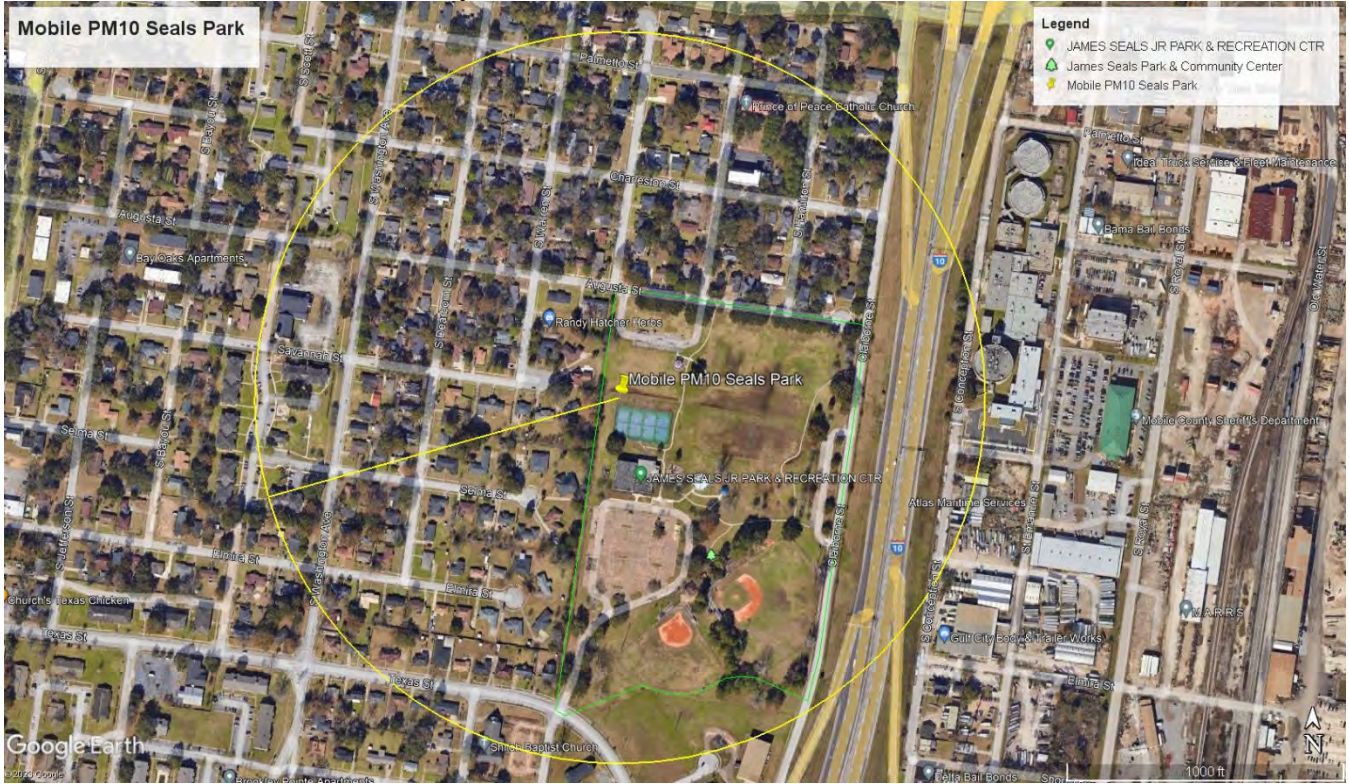
EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

Seals Park
540 Texas St., Mobile, Mobile County

AQS ID 01-097-8001
30.679486, -88.046557



MSA: Mobile 58.9 m from Iroquois St

Property Type: Commercial (city)

NORTH



SOUTH



EAST



WEST



Parameter	Monitoring Objective/ Scale	Schedule	Start Date	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
PM10 FRM	Source oriented/ Neighborhood	1/6 days	TBD*	81102	TDB*	TBD*	TBD*	TBD*	20m/West
PM10 FEM		Continuous	TBD*	81102					
Mini-Vol		1/6 days	TBD*	N/A					

*Complete site assessment will be included in official submittal to EPA after site is operational.

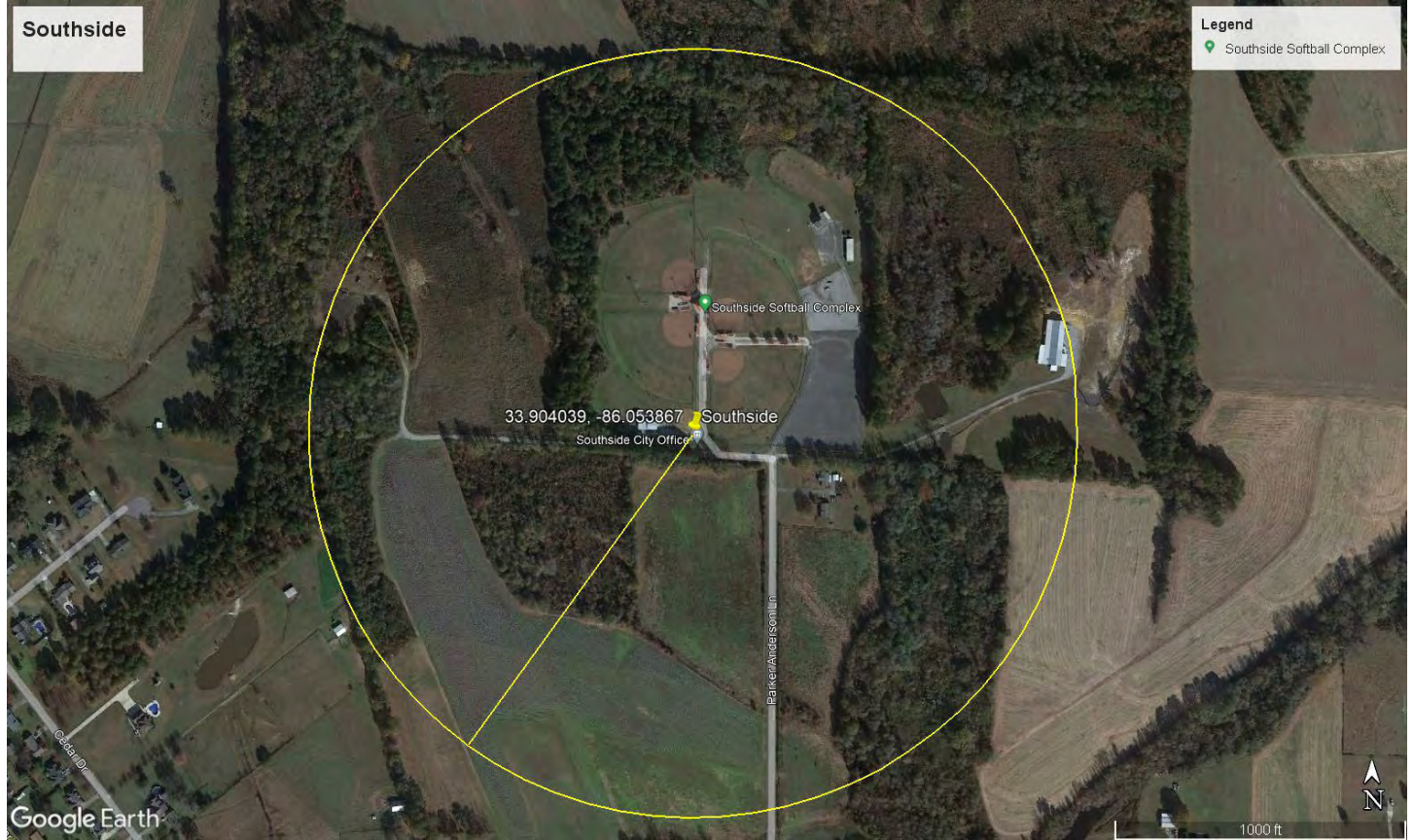
Evaluation Date: 04/20/2023

SOUTHSIDE

1450 Parker Anderson Lane, Southside, Etowah County

AQS ID 01-055-0011

33.904039, -86.053867



MSA: Gadsden 83.8 m from Parker Anderson Lane

Property Type: Agricultural (city)

NORTH

SOUTH

EAST

WEST



Parameter	Monitoring Objective/ Scale	Schedule	Start Date	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
Ozone	Highest Concentration/ Neighborhood	Continuous	04/26/2002	047	Teflon	4.1 m	1.7 m	11.7 m	17.6 m South

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 02/13/2023

1 mile Ring Centered at 33.904010,-86.053851, ALABAMA, EPA Region 4

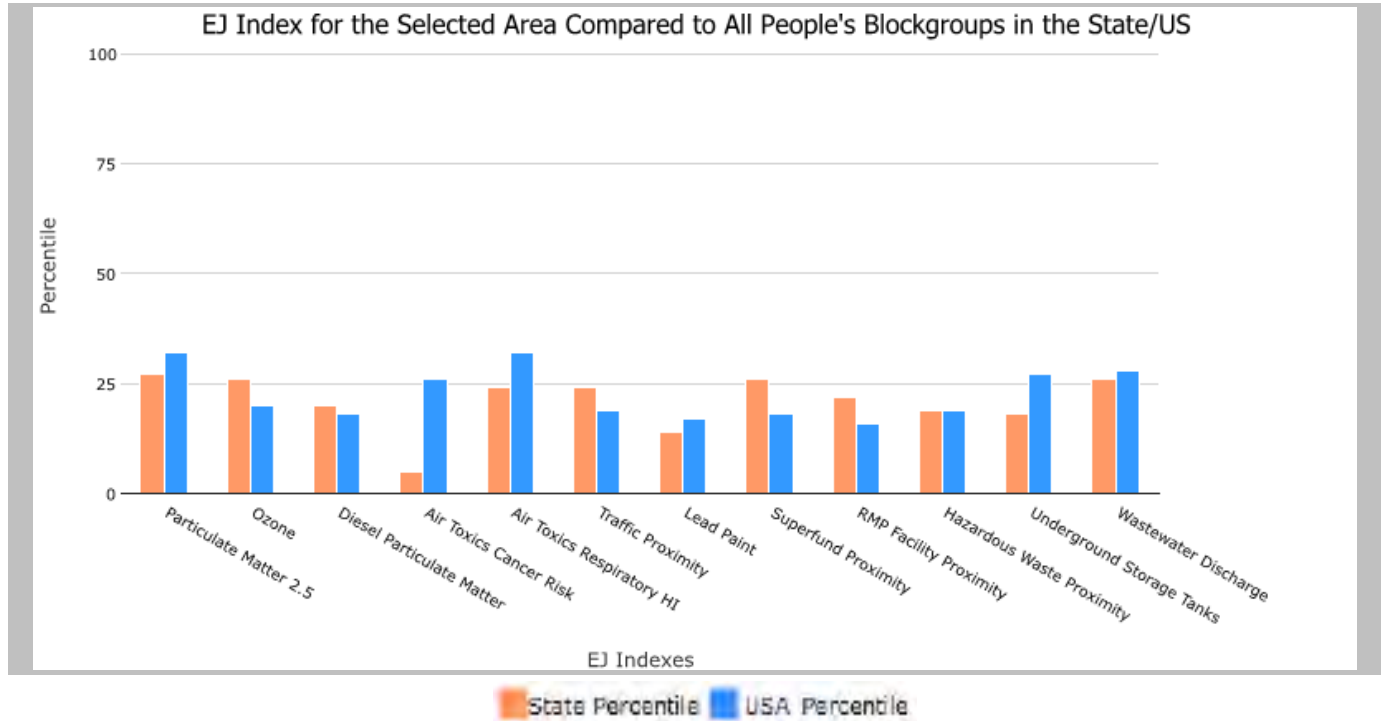
Approximate Population: 1,513

Input Area (sq. miles): 3.14

SOUTHSIDE AQS ID 01-055-0011

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	27	32
Ozone EJ index	26	20
Diesel Particulate Matter EJ index*	20	18
Air Toxics Cancer Risk EJ index*	5	26
Air Toxics Respiratory HI EJ index*	24	32
Traffic Proximity EJ index	24	19
Lead Paint EJ index	14	17
Superfund Proximity EJ index	26	18
RMP Facility Proximity EJ index	22	16
Hazardous Waste Proximity EJ index	19	19
Underground Storage Tanks EJ index	18	27
Wastewater Discharge EJ index	26	28

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

TROY, LEAD
Henderson Road, Troy, Pike County

AQS ID 01-109-0003
31.790479, -85.978974



μSA: Troy 15.2 m Henderson Road

Property Type: Industrial (private)

NORTH

SOUTH

EAST

WEST



Parameter	Monitoring Objective/ Scale	Schedule	Start Date	AQS Method Code	Probe Inlet Height from ground	Distance between collocated samplers	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
Lead TSP	Highest Concentration/ Neighborhood	Every 6 days	01/01/2009	044	2.1 m	2.0 m	12.4 m	13.8 m North
Lead TSP Co					2.1 m	2.0 m	10.6 m	13.8 m North

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 03/23/2023

EJScreen Report (Version 2.11)



1 mile Ring Centered at 31.790481,-85.978974, ALABAMA, EPA Region 4

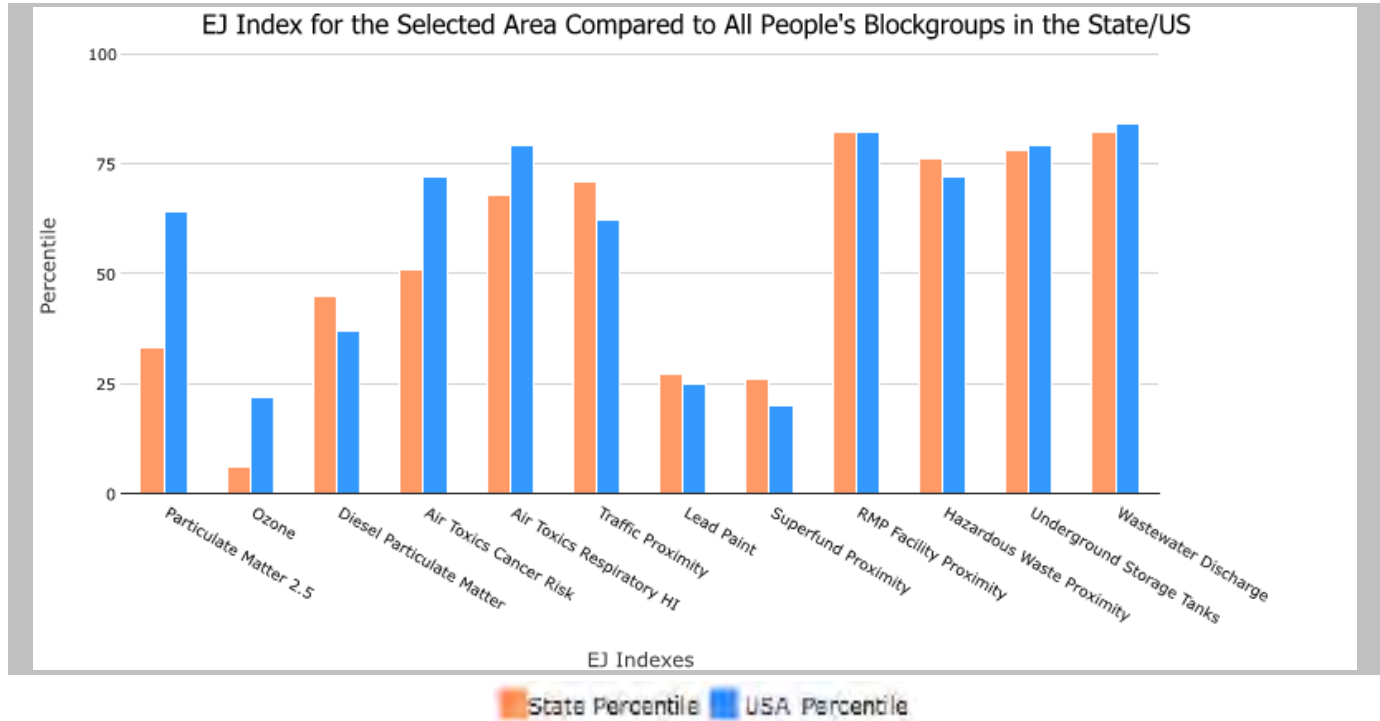
Approximate Population: 2,863

Input Area (sq. miles): 3.14

TROY LEAD AQS ID 01-109-0003

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	33	64
Ozone EJ index	6	22
Diesel Particulate Matter EJ index*	45	37
Air Toxics Cancer Risk EJ index*	51	72
Air Toxics Respiratory HI EJ index*	68	79
Traffic Proximity EJ index	71	62
Lead Paint EJ index	27	25
Superfund Proximity EJ index	26	20
RMP Facility Proximity EJ index	82	82
Hazardous Waste Proximity EJ index	76	72
Underground Storage Tanks EJ index	78	79
Wastewater Discharge EJ index	82	84

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.



MSA: N/A 44.8 m to County Rd. 16 / 10

Property Type: Agricultural (private)

NORTH



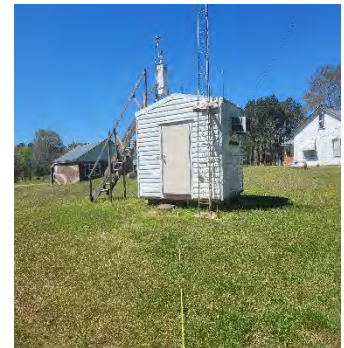
SOUTH



EAST



WEST



Parameter	Monitoring Objective/Scale	Schedule	Start Date	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
BAM-1022	General	Continuous	01/01/2021	209	Inlet Head	5.0 m	2.0 m	22.2 m	Southeast
Ozone	Background/		03/01/2013	087	Teflon	3.9 m	1.0 m	23.9 m	
SO2	Regional		01/04/2018	100		3.9 m	1.1 m	23.9 m	

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 03-15-2023

EJScreen Report (Version 2.11)



1 mile Ring Centered at 32.362613,-88.277987, ALABAMA, EPA Region 4

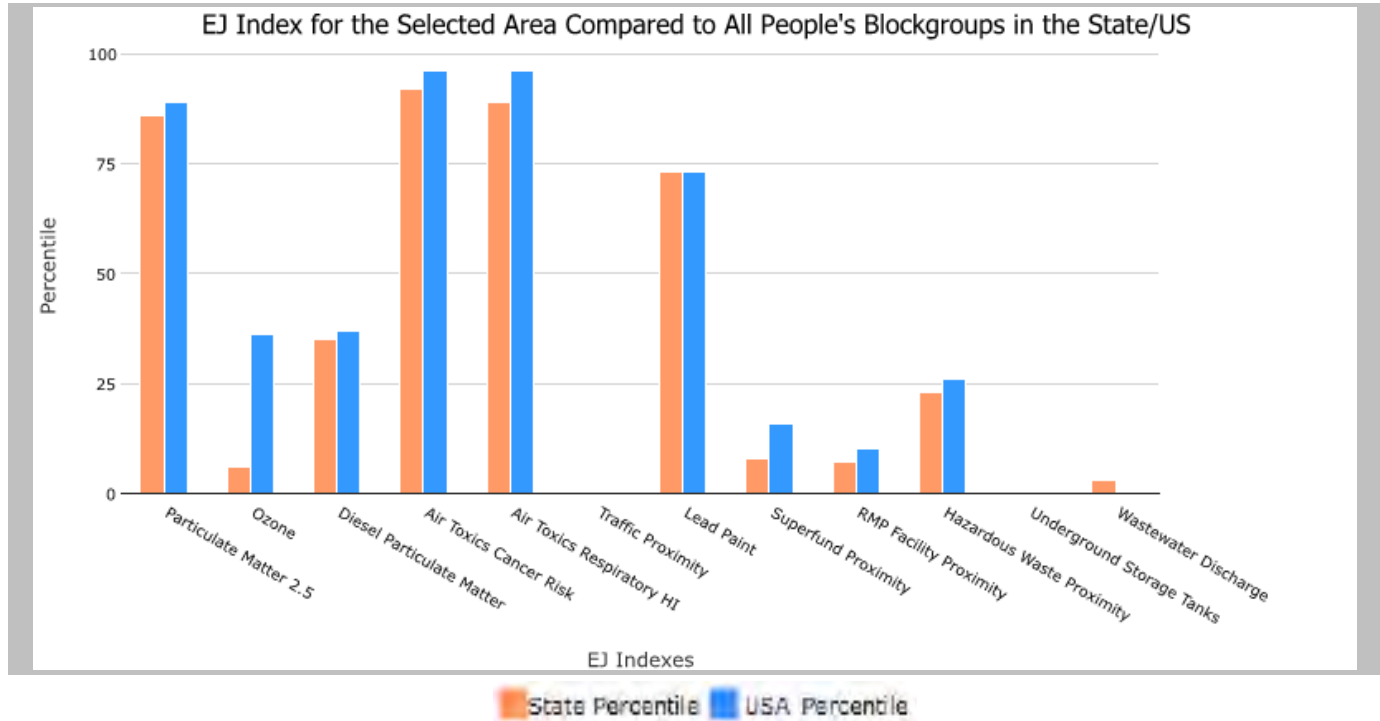
Approximate Population: 21

Input Area (sq. miles): 3.14

WARD, SUMTER CO. AQS ID 01-119-0003

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	86	89
Ozone EJ index	6	36
Diesel Particulate Matter EJ index*	35	37
Air Toxics Cancer Risk EJ index*	92	96
Air Toxics Respiratory HI EJ index*	89	96
Traffic Proximity EJ index	N/A	N/A
Lead Paint EJ index	73	73
Superfund Proximity EJ index	8	16
RMP Facility Proximity EJ index	7	10
Hazardous Waste Proximity EJ index	23	26
Underground Storage Tanks EJ index	0	0
Wastewater Discharge EJ index	3	0

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

WETUMPKA WESTSIDE TECHNOLOGY PARK

3148 Elmore Road, Wetumpka, Elmore County

AQS ID 01-051-0004

32.535680, -86.255193



MSA: Montgomery 56.08 m to Hwy 14

Property Type: Industrial (city)

NORTH



SOUTH



EAST



WEST



Parameter	Monitoring Objective/ Scale	Schedule	Start Date	AQS Method Code	Probe/Rain Shield Material	Probe Inlet Height from ground	Distance from probe to supporting structure	Distance from probe to nearest tree dripline	Height of nearest tree/ Direction from probe to tree
Ozone	Highest Concentration/ Urban	Continuous	03/20/2018	087	Teflon / Teflon	4.0 m	1.4 m	21.6 m	5.6 m East

This site meets all requirements of 40 CFR Part 58.

Evaluation Date: 03/10/2023

1 mile Ring Centered at 32.535686,-86.255166, ALABAMA, EPA Region 4

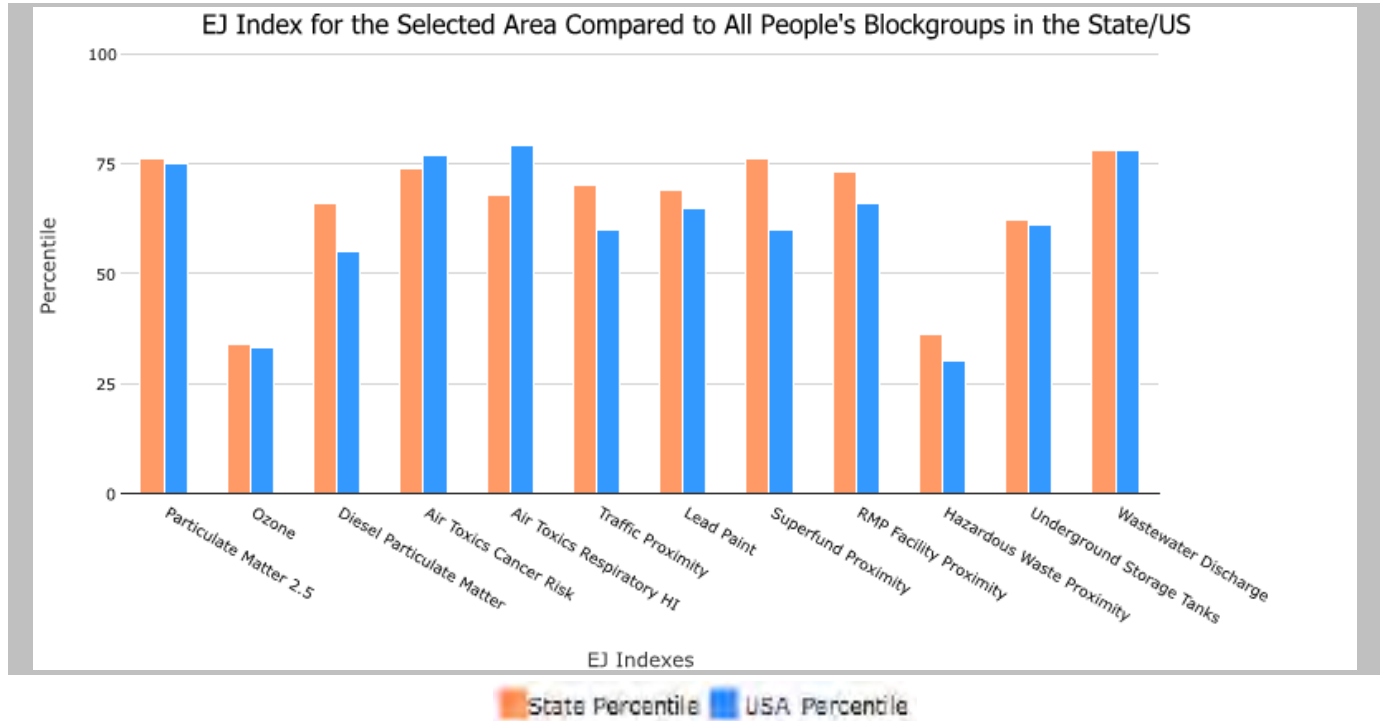
Approximate Population: 132

Input Area (sq. miles): 3.14

WETUMPKA WESTSIDE TECHNOLOGY PARK AQS ID 01-151-0004

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	76	75
Ozone EJ index	34	33
Diesel Particulate Matter EJ index*	66	55
Air Toxics Cancer Risk EJ index*	74	77
Air Toxics Respiratory HI EJ index*	68	79
Traffic Proximity EJ index	70	60
Lead Paint EJ index	69	65
Superfund Proximity EJ index	76	60
RMP Facility Proximity EJ index	73	66
Hazardous Waste Proximity EJ index	36	30
Underground Storage Tanks EJ index	62	61
Wastewater Discharge EJ index	78	78

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

Appendix B

DRR SO₂ Annual Report

The Alabama Department of Environmental Management (ADEM) submits this annual assessment pursuant to the United States Environmental Protection Agency’s (EPA) Data Requirements Rule (DRR) for the 2010 1-hour Sulfur Dioxide (SO₂) Primary National Ambient Air Quality Standard (NAAQS). Specifically, Title 40 of the Code of Federal Regulation (CFR), Part 51.1205(b) states, “For any area where modeling of actual SO₂ emissions serve[s] as the basis for designating such area as attainment for the 2010 SO₂ NAAQS, the air agency shall submit an annual report to the EPA Regional Administrator by July 1 of each year.... that is available for public inspection, that documents the annual SO₂ emissions of each applicable source in each such area and provides an assessment of the cause of any emissions increase from the previous year.” This report satisfies this requirement.

Table A-1: Alabama SO₂ DRR Sources

Facility No.	Plant Name
201-0001	International Paper Company- Prattville Mill
414-0001	Alabama Power Company- Plant Gorgas
211-0003	Continental Carbon- Carbon Black plant

Continental Carbon- Carbon Black plant

Per the DRR Rule, any source which models using allowable/potential emissions and shows compliance with the 1-hour SO₂ NAAQS is not subject to the Annual Reporting process. In Alabama, this applies to Continental Carbon- Carbon Black plant (211-0003) in Russell County, Alabama. Further, as of 12/31/22, the Continental Carbon Plant in Phenix City, Alabama, has ceased operation. Therefore, Continental Carbon will not be included in future reports.

Alabama Power Company- Plant Gorgas

As of April 2019, the Alabama Power Company- Plant Gorgas facility ceased operation. On 1/20/2023, EPA approved ADEM’s termination request for Gorgas. As such, Gorgas will not be included in this or future reports.

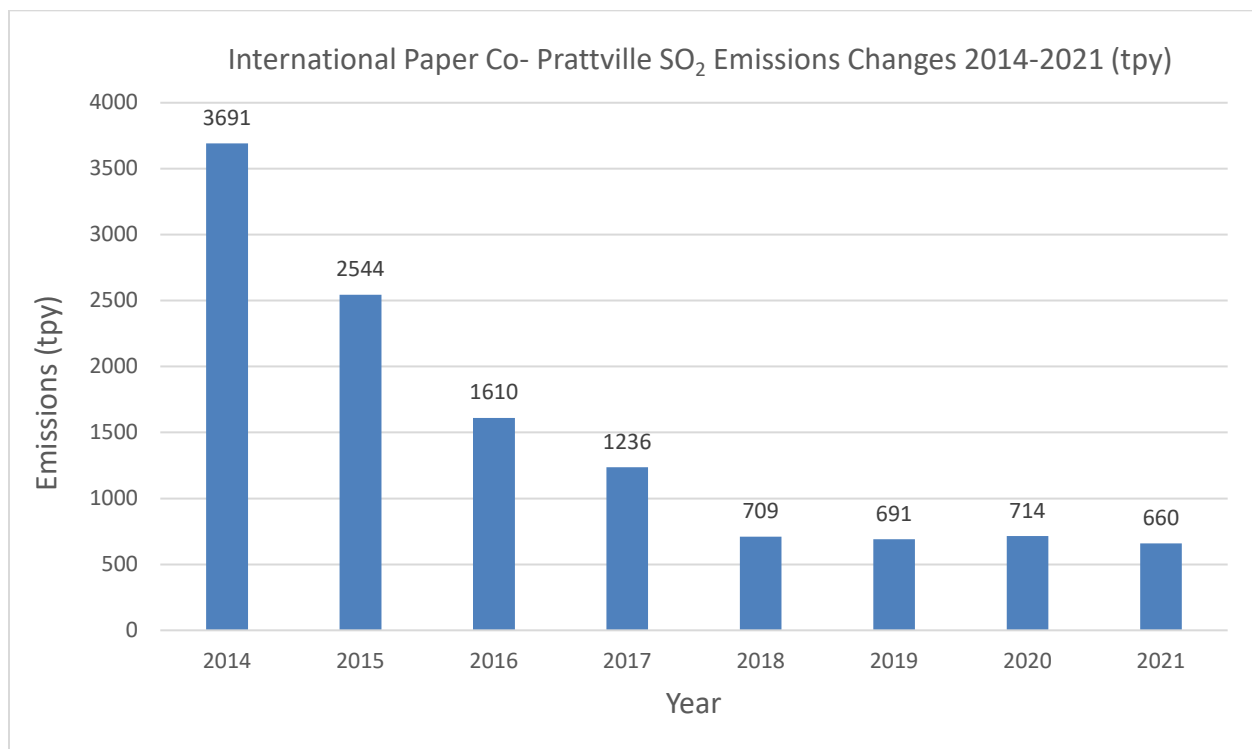
International Paper Company- Prattville Mill

For this review, actual emissions from the last eight Title V reporting periods were compared (2014-2021) to assess possible increases in SO₂ emissions. This data is presented both graphically and in table form below. (Table A-2 and Figure A-1, respectively). Between the base year of 2014 and 2021, the International Paper- Prattville facility showed a continued decrease in SO₂ emissions.

Table A-2: International Paper Co- Prattville Mill SO₂ Emissions (2014-2021)

Facility No.	Plant Name	Year	SO ₂ Emissions (tpy)
201-0001	International Paper- Prattville Mill	2014	3691
		2015	2544
		2016	1610
		2017	1236
		2018	709
		2019	691
		2020	714
		2021	660

Figure A-1: International Paper- Prattville Mill SO₂ Emissions 2014- 2021



Based on the analysis of 2021 emissions compared to previous year's emissions, which were the basis of the modeled emissions, it is reasonable to conclude that no additional modeling is necessary for International Paper- Prattville. The existing modeling was approved by EPA in its attainment/unclassifiable determination for Autauga County and can still be relied on to demonstrate that the 1-hour SO₂ NAAQS continues to be met in this area.

Appendix C Comments

The following table contains changes made to the plan after the public comment period.

Page	Change