

AIR

Georgia Department of Natural Resources

2 Martin Luther King, Jr., Drive, S.E., Suite 1152 East, Atlanta, Georgia 30334-4100

Mark Williams, Commissioner

Environmental Protection Division

F. Allen Barnes, Director

Phone: 404/656-4713 FAX: 404/651-5778

JAN 18 2011

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGIONAL OFFICE
ATLANTA, GEORGIA

2011 JAN 21 AIR PLANNING BRANCH
RECEIVED
JAN 25 REC'D

Ms. Gwendolyn Keyes Fleming
Regional Administrator
U.S. EPA, Region 4
61 Forsyth Street, S.W.
Atlanta, Georgia 30303-3104

RE: Recommended Designations for the NO₂ National Ambient Air Quality Standard

Dear Ms. Fleming:

On January 22, 2010, the United States Environmental Protection Agency (U.S. EPA) strengthened the National Ambient Air Quality Standard for nitrogen dioxide (NO₂) by supplementing the existing standard of 53 parts per billion (ppb) with a 1-hour primary standard of 100 ppb (3-year average of the 98th percentile daily maximum 1-hour concentration) (75 FR 6474, February 9, 2010). Section 107(d) of the Clean Air Act requires each state to submit to the EPA, no later than one year following promulgation of a new or revised NAAQS, its recommended designation for each area of the State as attainment, non-attainment, or unclassifiable under the standard. The Georgia Environmental Protection Division (EPD) has developed recommended designations in accordance with Section V, "Designation of Areas", of the National Ambient Air Quality Standards for NO₂; Final Rule, as promulgated January 22, 2010, and U.S. EPA's November 12, 2010 letter to EPD.

EPA's November 12, 2010 letter to EPD states that recommendations are to be based on the latest available NO₂ monitoring data, which EPA expects will be from 2007-2009 or 2008-2010. On January 22, 2010, U.S. EPA also revised the ambient monitoring requirements for NO₂. The revised requirements include a two-tier network design. The first tier is to consist of near-road monitors to be placed in locations of expected maximum 1-hour NO₂ concentrations near heavily trafficked roads in urban areas. The second tier is to consist of monitors located to characterize areas with the maximum expected NO₂ concentrations at the neighborhood and larger spatial scales (also referred to as "area-wide" monitors.) EPD is required to establish one near-road monitoring site within the Augusta-Richmond County Core Based Statistical Area (CBSA) and two near-road monitoring sites within the Atlanta CBSA. One area-wide monitor is required within the Atlanta CBSA. All new monitors are required to be in operation by January 1, 2013.

Currently, EPD has four ambient NO₂ monitors in the Atlanta CBSA that began operation prior to 2007 (13-089-0002 in DeKalb County, 13-121-0048 in Fulton County (moth-balled beginning in April, 2009), 13-223-0003 in Paulding County, and 13-247-0001 in Rockdale County). One or more of these existing monitors meet the requirement for an area-wide monitor, but none of them would be considered near-road monitors. Ambient NO₂ measurements at these sites have concentrations well below the NAAQS. An AQS Quicklook Report summarizing NO₂ monitoring data from 2007-present is attached.

Ms. Gwendolyn Keyes Fleming

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Georgia EPD recommends that all counties be designated as "attainment/unclassifiable" for the revised NO₂ standard. **EPD is recommending that no areas in Georgia be designated "nonattainment."** Should future NO₂ monitoring data indicate a violation of the revised NO₂ standard at one or more of these areas, EPD reserves the right to revise these recommendations along with boundary recommendations for nonattainment area(s).

If you have any questions or need further information, please contact Jac Capp at (404) 363-7016 or Jimmy Johnston at (404) 363-7014.

Sincerely,



F. Allen Barnes
Director

FAB:JB:klc

Attachments

c: Dick Schutt, U.S. EPA Region 4
Jac Capp

**RECOMMENDED DESIGNATION STATUS FOR GEORGIA COUNTIES
2010 NO2 NAAQS**

County Name	Designation Recommendation
Appling	Attainment/Unclassifiable
Atkinson	Attainment/Unclassifiable
Bacon	Attainment/Unclassifiable
Baker	Attainment/Unclassifiable
Baldwin	Attainment/Unclassifiable
Banks	Attainment/Unclassifiable
Barrow	Attainment/Unclassifiable
Bartow	Attainment/Unclassifiable
Ben Hill	Attainment/Unclassifiable
Berrien	Attainment/Unclassifiable
Bibb	Attainment/Unclassifiable
Bleckley	Attainment/Unclassifiable
Brantley	Attainment/Unclassifiable
Brooks	Attainment/Unclassifiable
Bryan	Attainment/Unclassifiable
Bulloch	Attainment/Unclassifiable
Burke	Attainment/Unclassifiable
Butts	Attainment/Unclassifiable
Calhoun	Attainment/Unclassifiable
Camden	Attainment/Unclassifiable
Candler	Attainment/Unclassifiable
Carroll	Attainment/Unclassifiable
Catoosa	Attainment/Unclassifiable
Charlton	Attainment/Unclassifiable
Chatham	Attainment/Unclassifiable
Chattahoochee	Attainment/Unclassifiable
Chattooga	Attainment/Unclassifiable
Cherokee	Attainment/Unclassifiable
Clarke	Attainment/Unclassifiable
Clay	Attainment/Unclassifiable
Clayton	Attainment/Unclassifiable
Clinch	Attainment/Unclassifiable
Cobb	Attainment/Unclassifiable
Coffee	Attainment/Unclassifiable
Colquitt	Attainment/Unclassifiable
Columbia	Attainment/Unclassifiable
Cook	Attainment/Unclassifiable
Coweta	Attainment/Unclassifiable
Crawford	Attainment/Unclassifiable
Crisp	Attainment/Unclassifiable
Dade	Attainment/Unclassifiable
Dawson	Attainment/Unclassifiable

**RECOMMENDED DESIGNATION STATUS FOR GEORGIA COUNTIES
2010 NO2 NAAQS**

County Name	Designation Recommendation
Decatur	Attainment/Unclassifiable
DeKalb	Attainment/Unclassifiable
Dodge	Attainment/Unclassifiable
Dooly	Attainment/Unclassifiable
Dougherty	Attainment/Unclassifiable
Douglas	Attainment/Unclassifiable
Early	Attainment/Unclassifiable
Echols	Attainment/Unclassifiable
Effingham	Attainment/Unclassifiable
Elbert	Attainment/Unclassifiable
Emanuel	Attainment/Unclassifiable
Evans	Attainment/Unclassifiable
Fannin	Attainment/Unclassifiable
Fayette	Attainment/Unclassifiable
Floyd	Attainment/Unclassifiable
Forsyth	Attainment/Unclassifiable
Franklin	Attainment/Unclassifiable
Fulton	Attainment/Unclassifiable
Gilmer	Attainment/Unclassifiable
Glascok	Attainment/Unclassifiable
Glynn	Attainment/Unclassifiable
Gordon	Attainment/Unclassifiable
Grady	Attainment/Unclassifiable
Greene	Attainment/Unclassifiable
Gwinnett	Attainment/Unclassifiable
Habersham	Attainment/Unclassifiable
Hall	Attainment/Unclassifiable
Hancock	Attainment/Unclassifiable
Haralson	Attainment/Unclassifiable
Harris	Attainment/Unclassifiable
Hart	Attainment/Unclassifiable
Heard	Attainment/Unclassifiable
Henry	Attainment/Unclassifiable
Houston	Attainment/Unclassifiable
Irwin	Attainment/Unclassifiable
Jackson	Attainment/Unclassifiable
Jasper	Attainment/Unclassifiable
Jeff Davis	Attainment/Unclassifiable
Jefferson	Attainment/Unclassifiable
Jenkins	Attainment/Unclassifiable
Johnson	Attainment/Unclassifiable
Jones	Attainment/Unclassifiable

**RECOMMENDED DESIGNATION STATUS FOR GEORGIA COUNTIES
2010 NO2 NAAQS**

County Name	Designation Recommendation
Lamar	Attainment/Unclassifiable
Lanier	Attainment/Unclassifiable
Laurens	Attainment/Unclassifiable
Lee	Attainment/Unclassifiable
Liberty	Attainment/Unclassifiable
Lincoln	Attainment/Unclassifiable
Long	Attainment/Unclassifiable
Lowndes	Attainment/Unclassifiable
Lumpkin	Attainment/Unclassifiable
McDuffie	Attainment/Unclassifiable
McIntosh	Attainment/Unclassifiable
Macon	Attainment/Unclassifiable
Madison	Attainment/Unclassifiable
Marion	Attainment/Unclassifiable
Meriwether	Attainment/Unclassifiable
Miller	Attainment/Unclassifiable
Mitchell	Attainment/Unclassifiable
Monroe	Attainment/Unclassifiable
Montgomery	Attainment/Unclassifiable
Morgan	Attainment/Unclassifiable
Murray	Attainment/Unclassifiable
Muscogee	Attainment/Unclassifiable
Newton	Attainment/Unclassifiable
Oconee	Attainment/Unclassifiable
Oglethorpe	Attainment/Unclassifiable
Paulding	Attainment/Unclassifiable
Peach	Attainment/Unclassifiable
Pickens	Attainment/Unclassifiable
Pierce	Attainment/Unclassifiable
Pike	Attainment/Unclassifiable
Polk	Attainment/Unclassifiable
Pulaski	Attainment/Unclassifiable
Putnam	Attainment/Unclassifiable
Quitman	Attainment/Unclassifiable
Rabun	Attainment/Unclassifiable
Randolph	Attainment/Unclassifiable
Richmond	Attainment/Unclassifiable
Rockdale	Attainment/Unclassifiable
Schley	Attainment/Unclassifiable
Screven	Attainment/Unclassifiable
Seminole	Attainment/Unclassifiable
Spalding	Attainment/Unclassifiable

**RECOMMENDED DESIGNATION STATUS FOR GEORGIA COUNTIES
2010 NO2 NAAQS**

County Name	Designation Recommendation
Stephens	Attainment/Unclassifiable
Stewart	Attainment/Unclassifiable
Sumter	Attainment/Unclassifiable
Talbot	Attainment/Unclassifiable
Taliaferro	Attainment/Unclassifiable
Tattnall	Attainment/Unclassifiable
Taylor	Attainment/Unclassifiable
Telfair	Attainment/Unclassifiable
Terrell	Attainment/Unclassifiable
Thomas	Attainment/Unclassifiable
Tift	Attainment/Unclassifiable
Toombs	Attainment/Unclassifiable
Towns	Attainment/Unclassifiable
Treutlen	Attainment/Unclassifiable
Troup	Attainment/Unclassifiable
Turner	Attainment/Unclassifiable
Twiggs	Attainment/Unclassifiable
Union	Attainment/Unclassifiable
Upson	Attainment/Unclassifiable
Walker	Attainment/Unclassifiable
Walton	Attainment/Unclassifiable
Ware	Attainment/Unclassifiable
Warren	Attainment/Unclassifiable
Washington	Attainment/Unclassifiable
Wayne	Attainment/Unclassifiable
Webster	Attainment/Unclassifiable
Wheeler	Attainment/Unclassifiable
White	Attainment/Unclassifiable
Whitfield	Attainment/Unclassifiable
Wilcox	Attainment/Unclassifiable
Wilkes	Attainment/Unclassifiable
Wilkinson	Attainment/Unclassifiable
Worth	Attainment/Unclassifiable

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: AIO

QUICKLOOK CRITERIA PARAMETERS

Report Request ID: 810497

Report Code: AMP450

Nov. 23, 2010

Tribal	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	Region	Method	Duration	Begin Date	End Date
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GEOGRAPHIC SELECTIONS

Parameter	Classification	Parameter	Method	Duration

42602

SELECTED OPTIONS

Option Type	Option Value	Order	Column	Sort Order
EVENTS PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS	1	PARAMETER_CODE	
MERGE PDF FILES	YES	2	STATE_CODE	
WORKFILE DELIMITER	,	3	COUNTY_CODE	
		4	SITE_ID	
		5	POC	
		6	DATES	
		7	EDT_ID	

GLOBAL DATES

Start Date	End Date
2007	2010

APPLICABLE STANDARDS

Standard Description
NO2 1-hour
NO2 Annual 1971

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Nov. 23, 2010

EXCEPTIONAL DATA TYPES

EDT	DESCRIPTION
0	NO EVENTS
1	EVENTS EXCLUDED
2	EVENTS INCLUDED
5	EVENTS WITH CONCURRENCE EXCLUDED

Note: The * indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 QUICK LOOK REPORT (AMP450)

Nov. 23, 2010

SITE ID	Nitrogen dioxide (NO2) (42602)	P O C	POAO CITY	COUNTY	ADDRESS	Georgia			Parts per billion (008)						
						YEAR	METH	COMPT	1ST MAX 1-HR	2ND MAX 1-HR	98TH PCTL	OBS	PCT COMP	ARITH MEAN	CERT EDT
13-247-0001	1 0437 Conyers		Conyers	Rockdale	MONASTERY , 3780 GA HWY 212	2009	074	4	21.0	21.0	18.0	8051	92	3.52	0
13-247-0001	1 0437 Conyers		Conyers	Rockdale	MONASTERY , 3780 GA HWY 212	2010	074	2	37.0	35.0	24.0	4933	56	3.68*	0

Note: The * indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 QUICK LOOK REPORT (AMP450)

Nov. 23, 2010

METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
42602	074	INSTRUMENTAL	CHEMILUMINESCENCE

Note: The * indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
QUICK LOOK REPORT (AMP450)

Nov. 23, 2010

PQAOS USED IN THIS REPORT

PQAO	AGENCY DESCRIPTION
0437	Georgia Air Protection Branch Ambient Monitoring Program

Note: The * indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 QUICK LOOK REPORT (AMP450)

Nov. 23, 2010

SITE ID	Nitrogen dioxide (NO2) (42602)	P O C	POAO CITY	COUNTY	ADDRESS	YEAR	METH	QTRS	Georgia		Parts per billion (008)						
									1ST	2ND	1-HR	98TH	PCT	ARITH	MEAN	CERT	EDT
									MAX	MAX	1-HR	PCTL	OBS	COMP			
13-089-0002	1 0437	Decatur	DeKalb	2390-B Wildcat Road, Decatur GA	2007	074	3	69.0	67.0	65.0	7911	90	14.50	0			
13-089-0002	1 0437	Decatur	DeKalb	2390-B Wildcat Road, Decatur GA	2008	074	4	80.0	62.0	58.0	7990	91	13.04	0			
13-089-0002	1 0437	Decatur	DeKalb	2390-B Wildcat Road, Decatur GA	2009	074	4	67.0	56.0	50.0	8110	93	10.66	0			
13-099-0002	1 0437	Decatur	DeKalb	2390-B Wildcat Road, Decatur GA	2010	074	2	77.0	75.0	60.0	4926	56	12.93*	0			
13-121-0048	1 0437	Atlanta	Fulton	GA. TECH., Ford ES&T Bldg, 311 Ferst St NW, Atlanta GA	2007	074	4	93.0	86.0	75.0	8103	93	17.06	0			
13-121-0048	1 0437	Atlanta	Fulton	GA. TECH., Ford ES&T Bldg, 311 Ferst St NW, Atlanta GA	2008	074	4	67.0	65.0	63.0	8224	94	15.20	0			
13-121-0048	1 0437	Atlanta	Fulton	GA. TECH., Ford ES&T Bldg, 311 Ferst St NW, Atlanta GA	2009	074	1	65.0	58.0	56.0	2771	32	15.58*	0			
13-223-0003	1 0437	Not in a city	Paulding	YORKVILLE	2007	074	4	31.0	30.0	25.0	8538	97	3.11	0			
13-223-0003	1 0437	Not in a city	Paulding	YORKVILLE	2008	074	3	35.0	22.0	19.0	7880	90	2.64	0			
13-223-0003	1 0437	Not in a city	Paulding	YORKVILLE	2009	074	4	33.0	25.0	16.0	8259	94	2.47	0			
13-223-0003	1 0437	Not in a city	Paulding	YORKVILLE	2010	074	2	22.0	19.0	16.0	4926	56	2.30*	0			
13-247-0001	1 0437	Conyers	Rockdale	CONYERS MONASTERY, 3780 GA HWY 212	2007	074	4	36.0	34.0	27.0	8331	95	5.26	0			
13-247-0001	1 0437	Conyers	Rockdale	CONYERS	2008	074	4	37.0	33.0	28.0	8519	97	5.12	0			

Note: The * indicates that the mean does not satisfy summary criteria.

Georgia Department of Natural Resources

Environmental Protection Division • Air Protection Branch

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Mark Williams, Commissioner

F. Allen Barnes, Director

December 14, 2010

MEMORANDUM

To: Allen Barnes

Through: Jac Capp

From: Jimmy Johnston

Subject: Designation Recommendations for NO₂ NAAQS

On January 22, 2010, U.S. EPA revised the National Ambient Air Quality Standard (NAAQS) for nitrogen dioxide (NO₂). In that same action, EPA also revised the air quality monitoring requirements to be consistent with the revised standard. The revised monitoring requirement require two “near-road” monitors in the Atlanta Core-Based Statistical Area (CBSA), one near-road monitor in the Augusta CBSA, and one “area-wide” monitor in the Atlanta CBSA. All new monitors are required to be in operation by January 1, 2013. There are four existing NO₂ monitors in the Atlanta CBSA, none of which qualify as a near-road monitor. One or more of the existing NO₂ monitors does satisfy the area-wide monitoring requirement. All four of these existing monitors indicate compliance with the standard.

AQS Number	Monitor Location	3-year Design Value* 98 th percentile of daily 1-hour maximum, parts per billion (ppb)
13-089-0002	South DeKalb, DeKalb County	62
13-121-0048	Georgia Tech, Fulton County	68
13-226-0003	Yorkville, Paulding County	20
13-247-0001	Conyers, Rockdale County	24

*The 3-year design values are based on 2007 to 2009 data except for Georgia Tech. The Georgia Tech monitor was moth-balled in April, 2009. Thus, the 3-year design value for the Georgia Tech monitor is based on 2006 to 2008 data.

We recommend that all areas of Georgia be classified as attainment¹. Note that both the preamble to the promulgated NO₂ standard and EPA’s November 12, 2010, letter state that EPA will designate areas with violating monitors as “nonattainment” and all other areas of the country as “unclassifiable” to indicate that there is insufficient data to determine whether or not they are attaining the revised NO₂ NAAQS (i.e., the near-road monitors are not in place.) However, we do not recommend that any areas be designated as unclassifiable because 1) the monitoring data that we do have indicates compliance with the standard, and 2) most counties will not be required to have an ambient NO₂ monitor.

¹ U.S. EPA’s historical and current practice is to designate areas that are attaining the standard as well as areas without monitors as “attainment/unclassifiable.” EPD’s recommendations are consistent with this practice.