



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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Eric J. Holcomb  
Governor

Bruno L. Pigott  
Commissioner

July 3, 2018

Ms. Cathy Stepp  
Regional Administrator  
U.S. Environmental Protection Agency  
Region 5  
77 West Jackson Boulevard  
Chicago, IL 60604-3950

Dear Ms. Stepp:

Re: Request for the Redesignation of Clark,  
Floyd, Lake and Porter Counties, Indiana,  
from "Unclassifiable" to  
"Attainment/Unclassifiable" under the 2012  
Primary Annual PM<sub>2.5</sub> National Ambient Air  
Quality Standard (NAAQS)

The Indiana Department of Environmental Management (IDEM) respectfully requests that United States Environmental Protection Agency (U.S. EPA) redesignate Clark, Floyd, Lake and Porter counties, Indiana, from "unclassifiable" to "attainment/unclassifiable" under the 2012 primary annual PM<sub>2.5</sub><sup>1</sup> NAAQS.

On December 18, 2014, U.S. EPA designated as "nonattainment" Clark and Floyd counties as part of the Louisville, KY-IN nonattainment area under the 2012 primary annual PM<sub>2.5</sub> standard of 12 micrograms per cubic meter (µg/m<sup>3</sup>). The designation was based on monitoring data for Clark and Floyd counties for 2011-2013 showing one of the area's monitors had a design value above the standard. Because air quality monitoring data for 2014 was nearly complete at the time of the designations, U.S. EPA provided a process for reevaluating the area using 2014 data. Monitoring data for Clark and Floyd counties for 2014, when combined with the 2012 and 2013 data, showed all monitors were below the standard and, on March 31, 2015, U.S. EPA redesignated the Louisville area, including Clark and Floyd counties, from "nonattainment" to "unclassifiable" noting that an air quality determination was not possible due to invalid monitoring data for Jefferson County, Kentucky.

Also on December 18, 2014, U.S. EPA designated as "unclassifiable" Lake and Porter counties as part of the Chicago, IL-IN unclassifiable area under the 2012 standard. Quality-assured and certified air monitoring data for Lake and Porter counties for 2011-2013 did not indicate a violation of the PM<sub>2.5</sub> standard. However, U.S. EPA determined that 2011-2013 PM<sub>2.5</sub> monitoring data for Illinois' portion of the area was invalid and, therefore, was unable to make an air quality determination for the area.

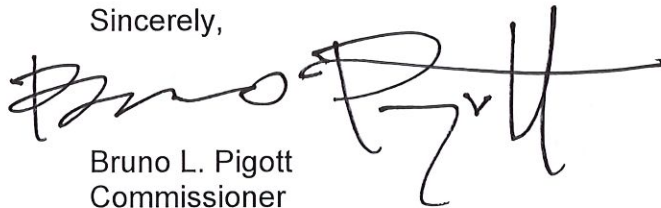
<sup>1</sup> The term PM<sub>2.5</sub> is synonymous with fine particles.

Sufficient quality-assured ambient air monitoring data has since been obtained for both areas that demonstrates attainment of the standard. Submitted with this request is a Technical Support Document (Enclosure 1) demonstrating that monitors in the Louisville, KY-IN area and the Chicago, IL-IN area meet the 2012 primary annual PM<sub>2.5</sub> NAAQS based on quality-assured and certified data for 2015-2017 submitted to U.S. EPA's Air Quality System (AQS). Included with the submittal are AQS Design Value Reports (AMP480) for 2015-2017 for the Louisville, KY-IN area (Enclosure 2) and the Chicago, IL-IN area (Enclosure 3).

This submittal consists of one (1) hard copy of the required documentation. An electronic version of the submittal in PDF format that is identical to the hard copy has been sent to Mr. Doug Aburano, Chief of U.S. EPA Region 5's Attainment Planning and Maintenance Section, and Mr. Chris Panos of U.S. EPA Region 5.

IDEM requests that U.S. EPA proceed with review and approval of this submittal. If you have any questions concerning this request, please do not hesitate to contact Mr. Keith Baugues, Assistant Commissioner of IDEM's Office of Air Quality, at (317) 232-8222 or [kbaugues@idem.IN.gov](mailto:kbaugues@idem.IN.gov).

Sincerely,



Bruno L. Pigott  
Commissioner

BP/kb/sd/bc/gf/as

Enclosures:

1. Indiana's Request for the Redesignation of Clark, Floyd, Lake and Porter Counties, IN, from "Unclassifiable" to "Attainment/Unclassifiable" Under the 2012 Primary Annual PM<sub>2.5</sub> National Ambient Air Quality Standard (NAAQS), Technical Support Document
2. U.S. EPA Air Quality System (AQS) Design Value Report (AMP480) for the Louisville, KY-IN Area (2015-2017)
3. U.S. EPA Air Quality System (AQS) Design Value Report (AMP480) for the Chicago, IL-IN Area (2015-2017)

cc: Chris Panos, U.S. EPA Region 5 (no enclosures)  
John Summerhays, U.S. EPA Region 5 (no enclosures)  
Doug Aburano, U.S. EPA Region 5 (no enclosures)  
Keith Baugues, IDEM-OAQ (no enclosures)  
Scott Deloney, IDEM-OAQ (no enclosures)  
Brian Callahan, IDEM-OAQ (w/enclosures)  
Gale Ferris, IDEM-OAQ (w/enclosures)  
Amy Smith, IDEM-OAQ (w/enclosures)  
File Copy

Enclosure 1

Technical Support Document

Request for the Redesignation of Clark, Floyd, Lake and  
Porter Counties, Indiana, from “Unclassifiable” to  
“Attainment/Unclassifiable” under the 2012 Primary  
Annual PM<sub>2.5</sub> National Ambient Air Quality Standard  
(NAAQS)

June 2018

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## **1.0 Overview**

The purpose of this Technical Support Document (TSD) is to demonstrate that monitors in the Louisville, IL-IN area and the Chicago, IL-IN area are in attainment of the 2012 primary annual PM<sub>2.5</sub><sup>1</sup> National Ambient Air Quality Standard (NAAQS) based on the most recent three years of quality-assured, certified monitoring data (i.e., 2015-2017). As such, Clark and Floyd counties, Indiana, within the Louisville, KY-IN area and Lake and Porter counties, Indiana, within the Chicago, IL-IN area should be redesignated from “unclassifiable” to “attainment/unclassifiable” under the 2012 PM<sub>2.5</sub> NAAQS.

### **1.1 Requirements for Redesignation**

The 2012 primary annual PM<sub>2.5</sub> NAAQS is met at a monitoring site when the 3-year average annual mean concentration, or design value, is 12.0 micrograms per cubic meter (µg/m<sup>3</sup>) or less. Three years of valid average annual means are required to produce a valid annual PM<sub>2.5</sub> NAAQS design value. Based on guidance from U.S. EPA Region 5’s Attainment Planning and Maintenance Section, Indiana understands that the redesignation requests for these areas may be granted if the following requirements are met:

- The most recent monitoring data set for the area demonstrates attainment of the 2012 primary annual standard for PM<sub>2.5</sub>, as published in 40 Code of Federal Regulations (CFR) Part 50.
- The monitoring data meets requirements in 40 CFR Part 58 for quality-assurance, certification, and is recorded in the U.S. EPA Air Quality System (AQS) database.

## **2.0 Assessment of Clark and Floyd Counties**

### **2.1 Background**

On December 18, 2014, U.S. EPA designated as “nonattainment” Clark and Floyd counties, as part of the Louisville, KY-IN nonattainment area, based on monitoring data for 2011-2013 showing one of the area’s monitors had a design value above the standard.<sup>2</sup> Because air quality monitoring data for 2014 was nearly complete at the time of the designations, U.S. EPA provided a process for reevaluating the area using 2014 data. On January 14, 2015, Indiana submitted quality-assured and certified data for 2014 that, when combined with the 2012 and 2013 data, demonstrated that all monitors in Clark and Floyd counties were below the 2012 standard.<sup>3</sup> U.S. EPA

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<sup>1</sup> The term PM<sub>2.5</sub> is synonymous with fine particles.

<sup>2</sup> 80 FR 2205, <https://www.federalregister.gov/documents/2015/01/15/2015-00021/air-quality-designations-for-the-2012-primary-annual-fine-particle-pm25>.

<sup>3</sup> Indiana’s Request for Reconsideration of Nonattainment Designations for Clark and Floyd Counties and Enclosure 1: Early 2014 SLAMS certification Report for Jeffersonville PM<sub>2.5</sub> Data can be found at <https://www.in.gov/idem/airquality/2427.htm>.

evaluated the updated data and, on March 31, 2015, redesignated the Louisville area, including Clark and Floyd counties, from “nonattainment” to “unclassifiable”, noting that an air quality determination was not possible due to invalid data for Jefferson County, Kentucky.<sup>4</sup>

## 2.2 Geographical Description

Clark and Floyd counties, IN, are part of the historical Louisville PM<sub>2.5</sub> nonattainment area that also includes Jefferson and Bullitt (partial) counties, KY. Cities in the area include Clarksville and New Albany in Indiana, as well as Louisville, KY. Several agencies within Indiana and Kentucky are responsible for assuring that counties within the area comply with federal Clean Air Act (CAA) requirements. These agencies include:

- The Indiana Department of Environmental Management (IDEM), which is responsible for Clark and Floyd counties, IN.
- The Louisville Metro Air Pollution Control District (LMAPCD), which is responsible for Jefferson County, KY.
- The Kentucky Department for Environmental Protection (KDEP), which is responsible for Bullitt County, KY, and planning components for Kentucky’s portion of the area.

There are currently seven air quality monitors measuring PM<sub>2.5</sub> concentrations in the Louisville, KY-IN area. IDEM operates three monitors in Indiana’s portion of the area, including two monitors in Clark County and one monitor in Floyd County. The remaining four monitors are located in Jefferson County, KY, and are operated by LMAPCD. IDEM, LMAPDC, and KDEP have worked cooperatively with one another and with U.S. EPA Regions 5 (Indiana) and 4 (Kentucky) to address attainment planning issues such as comprehensive plans for multi-state areas designated under previous standards.

## 2.3 Monitoring Data

Indiana is basing its redesignation request on 2015-2017 PM<sub>2.5</sub> air monitoring data (i.e., 2015-2017 design values), which are the most recent three years of quality-assured and certified air monitoring data. An assessment of monitoring data for the Louisville, KY-IN area shows that the annual average PM<sub>2.5</sub> concentrations are below the standard of 12.0 µg/m<sup>3</sup> and that the 2015-2017 design values indicate attainment. Design values are summarized in Table 2.1 and the U.S. EPA AQS Design Value Report (AMP480) for the Louisville, KY-IN area is provided in Enclosure 2.

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<sup>4</sup> 80 FR 18535, <https://www.federalregister.gov/documents/2015/04/07/2015-07948/additional-air-quality-designations-and-technical-amendment-to-correct-inadvertent-error-in-air>.

**Table 2.1: 2015-2017 Design Value Summary, Louisville, KY-IN Area**

State	County	Site ID	Site Name	2015-2017 Design Values ( $\mu\text{g}/\text{m}^3$ )
IN	Clark	18-019-0006	Jeffersonville – Walnut St.	9.6
		18-019-0008	Charlestown State Park	8.0
	Floyd	18-043-1004	New Albany	8.5
KY	Jefferson	21-111-0043	Southwick (Southern Ave.)	9.7
		21-111-0051	Watson Lane	9.2
		21-111-0067	Cannons Lane	8.6
		21-111-0075	Durrett Lane	9.4

#### 2.4 Requested Redesignations

Based on the assessment of 2015-2017 PM<sub>2.5</sub> air monitoring data for the Louisville, KY-IN area, Indiana is requesting the redesignation of Clark and Floyd counties, IN, from “unclassifiable” to “attainment/unclassifiable” under the 2012 primary annual PM<sub>2.5</sub> NAAQS, as shown in Table 2.2.

**Table 2.2: Requested Designations**

County	Current Designation	Requested Designation
Clark	Unclassifiable	Attainment/Unclassifiable
Floyd	Unclassifiable	Attainment/Unclassifiable

### 3.0 Assessment of Lake and Porter Counties

#### 3.1 Background

On December 18, 2014, U.S. EPA designated as “unclassifiable” Lake and Porter counties as part of the Chicago, IL-IN unclassifiable area under the 2012 primary annual PM<sub>2.5</sub> standard of 12 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). Quality-assured and certified air monitoring data for Lake and Porter counties for 2011-2013 did not indicate any violation of the PM<sub>2.5</sub> standard. However, U.S. EPA determined that 2011-2013 PM<sub>2.5</sub> monitoring data for Illinois’ portion of the area was invalid and, therefore, was unable to make an air quality determination for the area.

#### 3.2 Geographical Description

Lake and Porter counties are part of the historical Chicago-Gary-Lake County, IL-IN PM<sub>2.5</sub> nonattainment area that also includes Cook, DuPage, Grundy (partial), Kane, Kendall (partial), Lake, McHenry, and Will counties, IL. Both Lake and Porter counties, IN, are included in the planning jurisdiction of the Northwest Indiana Regional Planning Commission (NIRPC), the designated MPO for the Northwest Indiana area.

There are currently 20 air quality monitors measuring PM<sub>2.5</sub> concentrations in the Chicago, IL-IN area. The Indiana Department of Environmental Management (IDEM)

operates a total of four monitors in Indiana's portion of the area, including three in Lake County and one in Porter County. The remaining 16 monitors are located in the Illinois portion of the area and are operated by the Illinois Environmental Protection Agency (IEPA).

### 3.3 Monitoring Data

The 2012 primary annual PM<sub>2.5</sub> NAAQS is met at a monitoring site when the 3-year average annual mean concentration, or design value, is 12.0 µg/m<sup>3</sup> or less. Three years of valid average annual means are required to produce a valid annual PM<sub>2.5</sub> NAAQS design value.

Indiana is basing its redesignation request on 2015-2017 PM<sub>2.5</sub> air monitoring data (i.e., 2015-2017 design values), which are the most recent three years of quality-assured and certified air monitoring data. An assessment of 2015-2017 monitoring data for the Chicago, IL-IN area shows that annual average PM<sub>2.5</sub> concentrations are below the standard of 12.0 µg/m<sup>3</sup> and that 2015-2017 design values indicate attainment. Design values are summarized in Table 3.1, and a U.S. EPA AQS Design Value Report (AMP480) for the Chicago, IL-IN area is provided in Enclosure 3.

**Table 3.1: 2015-2017 Design Value Summary, Chicago, IL-IN Area**

State	County	Site ID	Site Name	2015-2017 Design Values (µg/m <sup>3</sup> )
IN	Lake	18-089-0006	East. Chicago – Franklin Sch.	9.3
		18-089-0031	Gary – Madison St.	9.2
		18-089-2004	Hammond – Purdue	8.7
	Porter	18-127-0024	Ogden Dunes	8.3
IL	Cook	17-031-0001	Alsip	9.5
		17-031-0022	Washington HS	9.3
		17-031-0052	Mayfair Pump Station	9.1
		17-031-0057	Springfield Pump Station	10.2
		17-031-0076	Com Ed	9.5
		17-031-3103	Schiller Park	10.5
		17-031-3301	Summit	9.7
		17-031-4007	Des Plaines	9.4
		17-031-4201	Northbrook	8.4
		17-031-6005	Cicero	10
	DuPage	17-043-4002	Naperville	8.3
	Kane	17-089-0003	Elgin	8.3
		17-089-0007	Aurora	8.3
	McHenry	17-111-0001	Cary	8.2*
	Will	17-197-1002	Joliet	7.9
		17-197-1011	Braidwood	7.9

\*Incomplete

### 3.4 Requested Redesignations

Based on the assessment of 2015-2017 PM<sub>2.5</sub> air monitoring data for the Chicago, IL-IN area, Indiana is requesting the redesignation of Lake and Porter counties, IN, from “unclassifiable” to “attainment/unclassifiable” under the 2012 primary annual PM<sub>2.5</sub> NAAQS, as shown in Table 3.2.

***Table 3.2: Requested Designations***

<b>County</b>	<b>Current Designation</b>	<b>Requested Designation</b>
Lake	Unclassifiable	Attainment/Unclassifiable
Porter	Unclassifiable	Attainment/Unclassifiable

### 4.0 Conclusion

This technical analysis of the most recent three years of quality-assured, certified PM<sub>2.5</sub> monitoring data (i.e., 2015-2017) indicates that monitors in the Louisville, IL-IN area and the Chicago, IL-IN area are in attainment of the 2012 primary annual PM<sub>2.5</sub> NAAQS. Monitoring data is recorded in U.S. EPA’s AQS. As such, Clark and Floyd counties, IN, within the Louisville, KY-IN area and Lake and Porter counties, IN, within the Chicago, IL-IN area should be redesignated from “unclassifiable” to “attainment/unclassifiable” under the 2012 PM<sub>2.5</sub> NAAQS.

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## Enclosure 2

U.S. EPA Air Quality System (AQS) Design Value Report  
(AMP480) for the Louisville, KY-IN Area (2015-2017)

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User ID: MMBECKER

## DESIGN VALUE REPORT

Report Request ID: 1662689

Report Code: AMP480

Jun. 20, 2018

## GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
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31140

## PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
DESIGN VALUE	88101		

## SELECTED OPTIONS

Option Type	Option Value
WORKFILE DELIMITER	,
SINGLE EVENT PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS
QUARTERLY DATA IN WORKFILE	NO
AGENCY ROLE	PQAO
USER SITE METADATA	STREET ADDRESS
MERGE PDF FILES	YES

## DATE CRITERIA

Start Date	End Date
2017	2017

## APPLICABLE STANDARDS

Standard Description
PM25 24-hour 2012
PM25 Annual 2012

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Jun. 20, 2018

- Notes:
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Jun. 20, 2018

Pollutant: Site-Level PM2.5 - Local Conditions (88101)  
Standard Units: Micrograms/cubic meter (LC) (105)  
NAAQS Standard: PM25 24-hour 2012 / PM25 Annual 2012  
Statistic: Annual Weighted Mean Level: 12  
Statistic: Annual 98th Percentile Level: 35

Design Value Year: 2017

REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

State Name: Indiana

Site ID / STREET ADDRESS	2017					2016					2015					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	Days	Qtrrs	Perctil	Mean	Eval	Days	Qtrrs	Perctil	Mean	Eval	Days	Qtrrs	Perctil	Mean	Eval	Value	Ind.	Value	Ind.
18-019-0006	120	4	19.4	8.7	Y	363	4	19.8	9.3	Y	359	4	25.8	10.7	Y	22	Y	9.6	Y
JEFFERSONVILLE PFAU- 719 WALNUT ST																			
18-019-0008	114	4	14.1	7.4	Y	116	4	16.3	7.9	Y	109	4	21.7	8.8	Y	17	Y	8.0	Y
12500 St. Rd. 62-Charlestown State Park/ Indiana Armory																			
18-043-1004	120	4	17.6	8.0	Y	121	4	17.1	8.3	Y	121	4	21.5	9.3	Y	19	Y	8.5	Y
2230 GREEN VALLEY ROAD/GREEN VALLEY ELEMENTARY SCHOOL																			

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk (\*).

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Jun. 20, 2018

Pollutant: Site-Level PM2.5 - Local Conditions (88101)  
Standard Units: Micrograms/cubic meter (LC) (105)  
NAAQS Standard: PM25 24-hour 2012 / PM25 Annual 2012  
Statistic: Annual Weighted Mean Level: 12  
Statistic: Annual 98th Percentile Level: 35

Design Value Year: 2017

REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

State Name: Kentucky

Site ID / STREET ADDRESS	2017					2016					2015					24-Hour		Annual	
	Cred. Comp.	98th	Wtd.	Cert&	Eval	Cred. Comp.	98th	Wtd.	Cert&	Eval	Cred. Comp.	98th	Wtd.	Cert&	Eval	Design Valid		Design Valid	
	Days	Qtrts	Perctil	Mean		Days	Qtrts	Perctil	Mean		Days	Qtrts	Perctil	Mean		Value	Ind.	Value	Ind.
21-111-0043 37TH & SOUTHERN AVENUE	352	4	17.9	9.2	Y	339	4	19.2	9.5	Y	325	4	22.3	10.4	Y	20	Y	9.7	Y
21-111-0051 7201 WATSON LN, WATSON LN ELEMENTARY SCH	327	4	18.9	8.8	Y	341	4	16.3	8.2	Y	330	4	22.9	10.4	Y	19	Y	9.2	Y
21-111-0067 2730 CANNONS LANE, BOWMAN FIELD	350	4	17.6	8.2	Y	344	4	18.5	8.2	Y	349	4	21.7	9.5	Y	19	Y	8.6	Y
21-111-0075 1517 Durrett Lane	121	4	20.7	8.9	Y	120	4	18.7	9.2	Y	115	4	22.1	10.0	Y	21	Y	9.4	Y

- Notes:**
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk (\*).

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Jun. 20, 2018

CERTIFICATION EVALUATION AND CONCURRENCE FLAG MEANINGS

FLAG	MEANING
M	The monitoring organization has revised data from this monitor since the most recent certification letter received from the state.
N	The certifying agency has submitted the certification letter and required summary reports, but the certifying agency and/or EPA has determined that issues regarding the quality of the ambient concentration data cannot be resolved due to data completeness, the lack of performed quality assurance checks or the results of uncertainty statistics shown in the AMP255 report or the certification and quality assurance report.
S	The certifying agency has submitted the certification letter and required summary reports. A value of "S" conveys no Regional assessment regarding data quality per se. This flag will remain until the Region provides an "N" or "Y" concurrence flag.
U	Uncertified. The certifying agency did not submit a required certification letter and summary reports for this monitor even though the due date has passed, or the state's certification letter specifically did not apply the certification to this monitor.
X	Certification is not required by 40 CFR 58.15 and no conditions apply to be the basis for assigning another flag value
Y	The certifying agency has submitted a certification letter, and EPA has no unresolved reservations about data quality (after reviewing the letter, the attached summary reports, the amount of quality assurance data submitted to AQS, the quality statistics, and the highest reported concentrations).

**Notes:** 1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).  
2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.  
3. Annual Values not meeting completeness criteria are marked with an asterisk (\*).

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Enclosure 3

U.S. EPA Air Quality System (AQS) Design Value Report  
(AMP480) for the Chicago, IL-IN Area (2015-2017)

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User ID: BJR

## DESIGN VALUE REPORT

Report Request ID: 1663567

Report Code: AMP480

Jun. 22, 2018

## GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	18	089									
	18	127									
	17	031									
	17	043									
	17	089									
	17	111									
	17	197									

## PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
DESIGN VALUE	88101		

## SELECTED OPTIONS

Option Type	Option Value
WORKFILE DELIMITER	,
SINGLE EVENT PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS
QUARTERLY DATA IN WORKFILE	NO
AGENCY ROLE	PQAO
USER SITE METADATA	STREET ADDRESS
MERGE PDF FILES	YES

## DATE CRITERIA

Start Date	End Date
2017	2017

## APPLICABLE STANDARDS

Standard Description
PM25 24-hour 2012
PM25 Annual 2012

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Jun. 22, 2018

- Notes:
1. Computed design values are a snapshot of the data at the time the report was run (may not be all data for year).
  2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
  3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Jun. 22, 2018

Pollutant: Site-Level PM<sub>2.5</sub> - Local Conditions (88101)  
Standard Units: Micrograms/cubic meter (LC) (105)  
NAAQS Standard: PM<sub>25</sub> 24-hour 2012 / PM<sub>25</sub> Annual 2012  
Statistic: Annual Weighted Mean Level: 12  
Statistic: Annual 98th Percentile Level: 35

Design Value Year: 2017

REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

State Name: Illinois

Site ID / STREET ADDRESS	2017					2016					2015					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	Days	Qtrrs	Perctil	Mean	Eval	Days	Qtrrs	Perctil	Mean	Eval	Days	Qtrrs	Perctil	Mean	Eval	Value	Ind.	Value	Ind.
17-031-0001 4500 W. 123RD ST.	56	4	20.5	8.7	Y	56	4	16.9	8.6	Y	55	4	23.4	11.1	Y	20	Y	9.5	Y
17-031-0022 3535 E. 114TH ST.	116	4	18.3	8.4	Y	118	4	17.7	8.4	Y	117	4	24.8	11.0	Y	20	Y	9.3	Y
17-031-0052 4850 WILSON AVE.	117	4	23.3	8.7	Y	111	4	17.9	8.7	Y	115	4	24.0	10.0	Y	22	Y	9.1	Y
17-031-0057 1745 N. SPRINGFIELD	57	4	20.9	8.9	Y	61	4	17.5	9.2	Y	55	4	37.1	12.5	Y	25	Y	10.2	Y
17-031-0076 7801 LAWDALE	57	4	23.0	8.4	Y	58	4	19.0	9.0	Y	57	4	24.7	11.1	Y	22	Y	9.5	Y
17-031-1016 50TH ST. AND GLENCOE	0	0	23.8*	*	Y	0	0	19.9*	*	Y	0	0	24.0*	*	Y	23	N		N
17-031-3103 4743 MANNHEIM RD.	111	4	23.8	10.3	Y	117	4	17.6	9.4	Y	114	4	25.1	11.8	Y	22	Y	10.5	Y
17-031-3301 60TH ST. & 74TH AVE.	98	3	25.1*	8.9*	Y	113	4	17.0	9.1	Y	110	3	27.1*	11.0*	Y	23	Y	9.7	Y
17-031-4007 9511 W. HARRISON ST	356	4	22.9	9.3	Y	116	3	18.9*	8.9 *	Y	112	4	25.3	9.9	Y	22	N	9.4	Y
17-031-4201 750 DUNDEE ROAD	326	3	20.9*	8.1*	Y	127	4	18.4	8.0	Y	108	3	22.4*	9.1*	Y	21	Y	8.4	Y
17-031-6005 13TH ST. & 50TH AVE.	54	3	23.6*	8.6*	Y	58	4	18.8	8.9	Y	56	3	30.1*	12.5	N	24	Y	10.0	Y

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2. Some PM<sub>2.5</sub> 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.  
3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Jun. 22, 2018

Pollutant: Site-Level PM2.5 - Local Conditions (88101)  
Standard Units: Micrograms/cubic meter (LC) (105)  
NAAQS Standard: PM25 24-hour 2012 / PM25 Annual 2012  
Statistic: Annual Weighted Mean Level: 12  
Statistic: Annual 98th Percentile Level: 35

Design Value Year: 2017

REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

State Name: Illinois

Site ID / STREET ADDRESS	2017					2016					2015					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	Days	Qtrrs	Perctil	Mean	Eval	Days	Qtrrs	Perctil	Mean	Eval	Days	Qtrrs	Perctil	Mean	Eval	Value	Ind.	Value	Ind.
17-043-4002 400 S. EAGLE ST.	171	4	22.0	8.2	Y	112	4	14.8	7.8	Y	117	4	22.5	9.0	Y	20	Y	8.3	Y
17-089-0003 258 LOVELL ST.	114	4	20.5	8.0	Y	107	3	15.7*	7.9 *	Y	101	3	19.6*	8.9*	Y	19	Y	8.3	Y
17-089-0007 1240 N. HIGHLAND AVE.	117	4	19.8	8.1	Y	111	4	17.4	8.0	M	116	4	18.8	8.9	Y	19	Y	8.3	Y
17-111-0001 FIRST ST. & THREE OAKS RD.	58	4	17.1	7.2	Y	42	1	14.7*	7.3 *	N	50	3	34.9*	9.9*	Y	22	N	8.2	N
17-197-1002 MIDLAND & CAMPBELL STS	108	4	19.6	8.7	Y	104	3	16.6*	8.0 *	Y	96	2	19.6*	7.0*	N	19	Y	7.9	Y
17-197-1011 36400 S. ESSEX RD.	346	4	18.5	7.8	Y	120	4	18.0	7.5	Y	55	4	16.3	8.4	Y	18	Y	7.9	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Jun. 22, 2018

Pollutant: Site-Level PM2.5 - Local Conditions (88101)  
Standard Units: Micrograms/cubic meter (LC) (105)  
NAAQS Standard: PM25 24-hour 2012 / PM25 Annual 2012  
Statistic: Annual Weighted Mean Level: 12  
Statistic: Annual 98th Percentile Level: 35

Design Value Year: 2017

REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

State Name: Indiana

Site ID / STREET ADDRESS	2017					2016					2015					24-Hour		Annual	
	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Cred.	Comp.	98th	Wtd.	Cert&	Design	Valid	Design	Valid
	Days	Qtrrs	Perctil	Mean	Eval	Days	Qtrrs	Perctil	Mean	Eval	Days	Qtrrs	Perctil	Mean	Eval	Value	Ind.	Value	Ind.
18-089-0006	117	4	21.1	8.7	Y	120	4	17.9	8.6	Y	119	4	26.5	10.6	Y	22	Y	9.3	Y
2400 Cardinal Dr.- Washington School (formerly Benjamin Franklin Elem School)																			
18-089-0022	0	0	21.0*	*	Y	0	0	18.2*	*	Y	0	0	23.5*	*	Y	21	N		N
201 MISSISSIPPI ST., IITRI BUNKER																			
18-089-0026	0	0	22.7*	*	Y	0	0	21.0*	*	Y	0	0	25.6*	*	Y	23	N		N
25TH AND BURR STREET- Truck Stop																			
18-089-0031	120	4	20.5	8.9	Y	119	4	20.0	8.6	Y	118	4	24.3	10.0	Y	22	Y	9.2	Y
650 Madison St./ Gary water/ IN American Water Company																			
18-089-2004	118	4	20.2	8.2	Y	122	4	19.8	8.1	Y	120	4	25.5	9.9	Y	22	Y	8.7	Y
PURDUE UNIV CALUMET-POWERS BUILDING 2200 169th St.																			
18-127-0024	120	4	19.7	7.9	Y	122	4	18.5	7.9	Y	121	4	22.1	9.2	Y	20	Y	8.3	Y
84 DIANA RD/ WATER TREATMENT PLANT																			

- Notes:**
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
PRELIMINARY DESIGN VALUE REPORT

Report Date: Jun. 22, 2018

CERTIFICATION EVALUATION AND CONCURRENCE FLAG MEANINGS

FLAG	MEANING
M	The monitoring organization has revised data from this monitor since the most recent certification letter received from the state.
N	The certifying agency has submitted the certification letter and required summary reports, but the certifying agency and/or EPA has determined that issues regarding the quality of the ambient concentration data cannot be resolved due to data completeness, the lack of performed quality assurance checks or the results of uncertainty statistics shown in the AMP255 report or the certification and quality assurance report.
S	The certifying agency has submitted the certification letter and required summary reports. A value of "S" conveys no Regional assessment regarding data quality per se. This flag will remain until the Region provides an "N" or "Y" concurrence flag.
U	Uncertified. The certifying agency did not submit a required certification letter and summary reports for this monitor even though the due date has passed, or the state's certification letter specifically did not apply the certification to this monitor.
X	Certification is not required by 40 CFR 58.15 and no conditions apply to be the basis for assigning another flag value
Y	The certifying agency has submitted a certification letter, and EPA has no unresolved reservations about data quality (after reviewing the letter, the attached summary reports, the amount of quality assurance data submitted to AQS, the quality statistics, and the highest reported concentrations).

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3. Annual Values not meeting completeness criteria are marked with an asterisk ('\*').