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July 23, 2024

Ms. Jeaneanne Gettle  
Acting Regional Administrator  
U.S. EPA, Region 4  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, Georgia 30303

RE: Submittal of the Kentucky State Implementation Plan (SIP) revision, satisfying the second 10-year Limited Maintenance Plan of Boone, Campbell, and Kenton Counties for the 1997 8-hour ozone National Ambient Air Quality Standards (NAAQS).

Dear Ms. Gettle:

On behalf of the Commonwealth of Kentucky, the Energy and Environment Cabinet (Cabinet) submits for approval to the United States Environmental Protection Agency (EPA), the following final SIP revision for the second 10-year limited maintenance plan (LMP) of the Cincinnati-Hamilton, OH-KY-IN 1997 8-hour ozone nonattainment area (hereinafter "the Area"). Specifically, the Cabinet has provided a submittal that contains a second maintenance plan for the Area demonstrating continued attainment for an additional ten years after the initial 10-year maintenance period as outlined in Clean Air Act (CAA) Section 175A(b).

On April 30, 2004, EPA designated the Kentucky counties of Boone, Campbell, and Kenton, the Ohio counties of Butler, Clermont, Clinton, Hamilton, and Warren, and a portion of the Indiana county of Dearborn as nonattainment for the 1997 8-hour ozone NAAQS. The SIP revision proposes that the Cincinnati-Hamilton, OH-KY-IN 1997 8-hour ozone nonattainment area second LMP for the Kentucky portion of the Area be approved by EPA due to improved air quality and attainment and maintenance of the 1997 ozone NAAQS.

In accordance with 40 CFR 51.102, the proposed SIP revision was available for public review and comment from August 15, 2023, until September 20, 2023. A virtual public hearing was held on September 20, 2023. If you have any questions regarding this matter, please contact Mr. Michael Kennedy, Director of the Division for Air Quality at (502) 782-6997, or [michael.kennedy@ky.gov](mailto:michael.kennedy@ky.gov).

Sincerely,

A handwritten signature in black ink that reads "Rebecca W. Goodman".

Rebecca W. Goodman  
Secretary

**1997 8-Hour Ozone  
National Ambient Air Quality Standard,  
Limited Second 10-Year Maintenance Plan for  
the Kentucky Counties within the  
Cincinnati-Hamilton, OH-KY-IN  
Maintenance Area**



Prepared by:

Kentucky Energy and Environment Cabinet  
Division for Air Quality  
July 2024

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## **I. Background & Introduction**

### *a. History*

On July 18, 1997, the U.S. Environmental Protection Agency (EPA) promulgated the first National Ambient Air Quality Standard (NAAQS) for ozone under the Clean Air Act (CAA) Amendments of 1990, setting an 8-hour standard of 0.08 parts per million (ppm), based on the 3-year average of the annual fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area.<sup>1</sup>

On April 30, 2004, EPA designated the tri-state Cincinnati-Hamilton, OH-KY-IN area (the Area) under subpart 1 as a “basic” 1997 8-hour ozone NAAQS nonattainment area.<sup>2</sup> The Area consisted of Boone, Campbell, and Kenton counties in Kentucky; Butler, Clermont, Clinton, Hamilton, and Warren counties in Ohio; and a portion of Dearborn County in Indiana.

On January 29, 2010, the Kentucky Energy and Environment Cabinet, Division for Air Quality (Division), submitted a request to redesignate the Kentucky portion of the Area to attainment for the 1997 8-hour ozone NAAQS. The Division also requested approval of the state implementation plan (SIP) revision containing a maintenance plan for the Kentucky portion of the Area.<sup>3</sup> On August 5, 2010, EPA published a final rule to redesignate the Kentucky portion of the Area to attainment for the 1997 8-hour ozone NAAQS.<sup>4</sup>

On March 27, 2008, EPA promulgated a revised NAAQS for the 8-hour ozone standard, lowering the previous standard of 0.08 ppm to 0.075 ppm, which went into effect May 27, 2008.<sup>5</sup> Final area designations for the 2008 standard were published on May 21, 2012, and became effective July 20, 2012.<sup>6</sup> The Area was designated as marginal nonattainment for the 2008 8-hour ozone NAAQS. Although EPA used the Metropolitan Statistical Area (MSA) name of Cincinnati, OH-KY-IN for its 2008 designation, this limited maintenance plan (LMP) will continue to use the Primary Metropolitan Statistical Area (PMSA) name of Cincinnati-Hamilton, OH-KY-IN to remain consistent with the 1997 designation.

On August 26, 2016, the Division submitted a redesignation request and maintenance plan for the Kentucky portion of the Area for the 2008 8-hour ozone NAAQS. On July 5, 2017, EPA published a final rule to redesignate the Kentucky portion of the Area to attainment for the 2008 8-hour ozone NAAQS.<sup>7</sup>

In 2015, EPA revised the 8-hour ozone standard to a level of 0.070 ppm,<sup>8</sup> and designated the Area marginal nonattainment for that standard.<sup>9</sup> Although the Area failed to attain the 2015 standard by the deadline of August 3, 2021 and was reclassified to moderate nonattainment, the

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<sup>1</sup> 62 FR 38856

<sup>2</sup> 69 FR 23857

<sup>3</sup> 75 FR 26685

<sup>4</sup> 75 FR 47218

<sup>5</sup> 73 FR 16436

<sup>6</sup> 77 FR 30087

<sup>7</sup> 82 FR 30976

<sup>8</sup> 80 FR 65291

<sup>9</sup> 83 FR 25776

Area did attain the 2015 standard in the year 2021.<sup>10</sup> The Ohio portion of the area was redesignated to attainment on June 9, 2022.<sup>11</sup> The Division submitted a redesignation request and maintenance plan for the Kentucky portion of the Area on September 21, 2022. On October 4, 2023, EPA published a final rule to redesignate the Kentucky portion of the Area to attainment for the 2015 8-hour ozone NAAQS.<sup>12</sup>

*b. Requirements*

Maintenance Plan Requirements contained in CAA Section 175A include:

- (a) Plan revision
- (b) Subsequent plan revisions
- (c) Nonattainment requirements applicable pending plan approval
- (d) Contingency provisions<sup>13</sup>

Pursuant to Section 175A(b) of the CAA, eight years after an area is redesignated attainment, the state must submit a second maintenance plan demonstrating continued attainment for a further ten years after the initial 10-year maintenance period covered by an initial maintenance plan.<sup>14</sup> When EPA set implementation requirements for the 2008 ozone NAAQS on April 5, 2015, it also revoked the 1997 ozone NAAQS, including requirements for subsequent maintenance plans. However, the D.C. Circuit Court issued a decision in *South Coast Air Quality Management District v. EPA* (South Coast II) that struck down EPA's revocation of the standard in certain regards, including reinstating the requirement for subsequent maintenance plans.<sup>15</sup>

On September 4, 1992, a memo from EPA Director of the Air Quality Management Division, John Calcagni,<sup>16</sup> further elaborated on the requirements of CAA Section 175A, specifying five requirements:

- a. Attainment Inventory
- b. Maintenance Demonstration
- c. Monitoring Network
- d. Verification of Continued Attainment
- e. Contingency Plan<sup>17</sup>

On November 20, 2018, EPA provided states with the resource guidance document *Resource Document for 1997 Ozone NAAQS Areas: Supporting Information for States Developing Maintenance Plans* (the Resource Document) containing technical information to consider when

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<sup>10</sup> 87 FR 60897

<sup>11</sup> 87 FR 35104

<sup>12</sup> 88 FR 68471

<sup>13</sup> 42 USC §7505A

<sup>14</sup> *Id.*

<sup>15</sup> 882 F.3d 1138 (2018).

<sup>16</sup> John Calcagni, Director, Air Quality Management Division, "*Procedures for Processing Requests to Redesignate Areas to Attainment*," (Sep. 4, 1992), (*hereinafter* "Calcagni Memo").

<sup>17</sup> *Id.* at 7-13.

developing second 10-year maintenance plans for the 1997 ozone NAAQS.<sup>18</sup> The Resource Document contains criteria that LMPs should include: (a) Current air quality levels significantly below the level of the standard, and (b) Stable or improving air quality trend.<sup>19</sup>

The initial maintenance period for the Area lasts for ten years after the effective date of approval of the maintenance plan – i.e., in 2020. This second 10-year maintenance plan demonstrates continued maintenance through 2030. Recent design values demonstrate that the Area is continuing to attain the 1997 ozone standard. Kentucky monitors in Boone and Campbell counties yielded design values of 0.061 ppm and 0.063 ppm respectively in 2022.<sup>20</sup> Design values for the nine Ohio monitors in the Area (located in Butler, Clermont, Clinton, Hamilton, and Warren counties) for 2022 were 0.067 ppm, 0.067 ppm, 0.064 ppm, 0.064 ppm, 0.062 ppm, 0.069 ppm, 0.067 ppm, 0.068 ppm, and 0.069 ppm. Recent design values for all monitors in the Area, found in Appendix A, were significantly below the 1997 ozone standard and signify that the entire Area is expected to continue attaining the standard through at least 2030. The Division therefore requests that this subsequent 10-year maintenance plan for the Kentucky portion of the Area be approved by EPA.

## II. Requirements

Each requirement of a maintenance plan is addressed in the order laid out in the *Calcagni Memo* below.

### a. Attainment Inventory

The initial redesignation request and maintenance plan for the Area used an attainment year of 2008, based on monitoring data from 2007-2009, which showed the Area attaining the standard. According to the initial redesignation request and maintenance plan, Kentucky used actual 2008 emissions for point sources. The base year of 2008 for both nonpoint and nonroad emissions was projected using the Lake Michigan Air Directors Consortium (LADCO) 2005 Base Year Inventory methodology. Emissions for the base year, the attainment year, and all interim years for onroad emissions were developed by Ohio-Kentucky-Indiana Regional Council of Governments (OKI) using EPA's MOBILE 6.2 mobile emissions model.

As a part of its request to redesignate the Kentucky portion of the Area to attainment for the 2015 ozone standard, the Division submitted an attainment inventory for 2019. The 2019 attainment year inventory was developed using a combination of sources: (1) Data from the 2017 NEI; (2) Data required to be submitted by sources to the Division,<sup>21</sup> (3) Mobile modeling conducted by OKI for the Area<sup>22</sup>; and (4) EPA's 2016v2 modeling platform.

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<sup>18</sup> EPA: Resource Document for 1997 Ozone NAAQS Areas: Supporting Information for States Developing Maintenance Plans, November 20, 2018.

<sup>19</sup> *Id.*

<sup>20</sup> Please see page 5 in section II. b., *Maintenance Demonstration*, regarding the validity of Boone County's design value for 2022.

<sup>21</sup> 401 KAR 52:020, available at <https://apps.legislature.ky.gov/law/kar/401/052/020.pdf>; and 401 KAR 52:030, available at <https://apps.legislature.ky.gov/law/kar/401/052/030.pdf>.

<sup>22</sup> Mobile emissions data was developed by OKI from emission factors produced by EPA's MOVES3 software program and data extracted from the region's updated travel-demand model.

The Kentucky portion of the 2008 and 2019 attainment inventories is shown below in Table 1. Emissions for the Kentucky portion of the Area in 2019 were substantially lower than the emissions in the 2008 attainment inventory, demonstrating that air quality is significantly improving as emissions continue to decrease. For more information on the development of these inventories, please see the original submissions.<sup>23</sup>

**Table 1 – 2008 Attainment Inventory v. Most Recent Complete Inventory (2019) in tons per summer day (tpsd) for the Kentucky Portion of the Area**

	NO <sub>x</sub>		VOCs	
	2008	2019	2008	2019
<b>Boone Total</b>	<b>47.84</b>	<b>13.97</b>	<b>20.29</b>	<b>12.83</b>
Point	23.27	5.99	2.81	2.75
Nonpoint	5.02	2.54	8.41	7.29
Onroad	8.53	4.70	4.00	1.30
Nonroad	11.02	0.74	5.07	1.49
<b>Campbell Total</b>	<b>11.56</b>	<b>3.79</b>	<b>8.42</b>	<b>3.95</b>
Point	0.02	0.29	0.28	0.40
Nonpoint	1.32	0.92	4.34	2.23
Onroad	4.88	2.20	2.29	0.80
Nonroad	5.34	0.38	1.51	0.52
<b>Kenton Total</b>	<b>19.79</b>	<b>7.68</b>	<b>14.85</b>	<b>6.78</b>
Point	0.03	0.28	1.17	0.43
Nonpoint	4.06	1.53	7.88	4.11
Onroad	8.37	5.30	3.85	1.50
Nonroad	7.33	0.57	1.95	0.74
<b>Kentucky Total</b>	<b>79.19</b>	<b>25.44</b>	<b>43.56</b>	<b>23.56</b>

<sup>23</sup> <https://www.regulations.gov/docket/EPA-R04-OAR-2010-0134/document>

*b. Maintenance Demonstration*

According to the *Calcagni Memo*, “[a] A State may generally demonstrate maintenance of the NAAQS by either showing that future emissions of a pollutant or its precursors will not exceed the level of the attainment inventory, or by modeling to show that the future mix of sources and emission rates will not cause a violation of the NAAQS.”<sup>24</sup> Subsequent guidance from EPA regarding the option of a LMP has stated that “[a] LMP submission may primarily rely on air quality data to demonstrate that the area is not expected to experience a future NAAQS violation, and it does not need to include projected future year emissions inventories or air quality modeling to make that demonstration, though including such information could further support the maintenance demonstration.”<sup>25</sup> According to EPA guidance, an area is only eligible for the LMP option if it is below 85% of the level of the standard.<sup>26</sup>

Since an area is considered to be meeting the 1997 ozone NAAQS when monitored ozone levels are below 0.085 ppm,<sup>27</sup> an area is eligible to submit a LMP if its current design value is at or below 0.071 ppm. The Area’s most recent three-year design value (derived from 2020-2022 quality assured monitoring data) is 0.069 ppm, indicating that the Area is eligible to submit this LMP.

Table 2 shows monitored fourth high maximum values for each individual monitor in the Area over the past three years, as well as their respective 2020-2022 design values. It should be noted that due to siting issues that could not be resolved, the Boone County monitor (21-015-0003) was relocated to a new site (21-015-0008) in 2022. The original Boone County monitor (21-015-003) has been permanently discontinued.<sup>28</sup> For this reason, 2022 monitoring data for Boone County is incomplete and the 2020-2022 design value is invalid. The other monitors in the Area have produced design values demonstrating that current air quality levels are significantly below the level of the 1997 ozone standard. Monitoring data and design values shown in Table 2 can be found in Appendix A.

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<sup>24</sup> *Calcagni memo, supra note \*\** at 9.

<sup>25</sup> “Resource Document for 1997 Ozone NAAQS Areas: Supporting Information for States Developing Maintenance Plans,” *supra note \*\** at 3.

<sup>26</sup> *Id.*, *supra note \*\** at 2.

<sup>27</sup> [Appendix I to 40 CFR Part 50](#) at §2.3(a).

<sup>28</sup> Kentucky Annual Ambient Air Monitoring Network Plan: <https://eec.ky.gov/Environmental-Protection/Air/Air-Monitoring/Pages/default.aspx>



**Table 1 – 8-hour Ozone Annual 4th High Maximum Values and Design Values for the Cincinnati-Hamilton, OH-KY-IN Maintenance Area, 2020-2022 (ppm)**

Site ID	County	Annual 4 <sup>th</sup> High Maximum Values			2020-2022 Design Values
		2020	2021	2022	
21-015-0003	Boone, KY	0.062	0.061	-	0.061*
21-037-3002	Campbell, KY	0.063	0.064	0.062	0.063
39-017-0018	Butler, OH	0.070	0.064	0.067	0.067
39-017-0023	Butler, OH	0.067	0.066	0.070	0.067
39-017-9991	Butler, OH	0.064	0.063	0.066	0.064
39-025-0022	Clermont, OH	0.064	0.065	0.063	0.064
39-027-1002	Clinton, OH	0.062	0.062	0.064	0.062
39-061-0006	Hamilton, OH	0.070	0.070	0.069	0.069
39-061-0010	Hamilton, OH	0.070	0.064	0.068	0.067
39-061-0040	Hamilton, OH	0.068	0.069	0.067	0.068
39-165-0007	Warren, OH	0.071	0.069	0.069	0.069

\* Invalid design value

Furthermore, the Area has a stable or improving air quality trend. This is evident from the mainly decreasing trend in Figure 1, which displays the design values for the Kentucky portion of the Area from 2002 to 2022 in comparison to the 1997, 2008, and 2015 ozone NAAQS. It should be noted that complete design value data for the Campbell County monitor (21-037-3002) was not available until 2010 since the monitor was established on August 1, 2007.<sup>29</sup> For this reason, Campbell County design values are not depicted in Figure 1 until 2010. Additionally, it should be noted that Boone County’s 2022 design value is not valid, and therefore is not displayed in Figure 1. Design values used to develop Figure 1 can be found in Appendix A.

<sup>29</sup> Kentucky Annual Ambient Air Monitoring Network Plan: <https://eec.ky.gov/Environmental-Protection/Air/Air-Monitoring/Pages/default.aspx>

**Figure 1 – 8-hour Ozone Design Values for the Kentucky Portion of the Cincinnati-Hamilton, OH-KY-IN Maintenance Area**

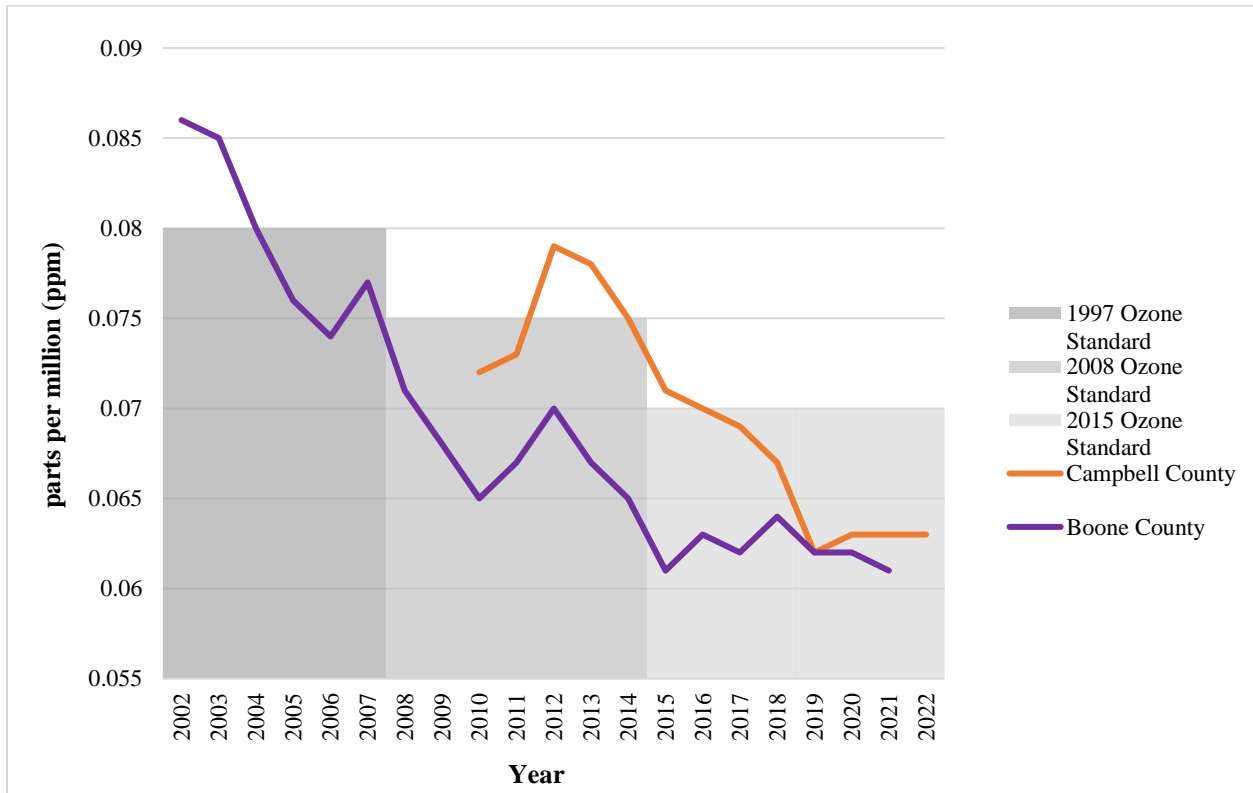


Figure 2 displays the design values for the Ohio portion of the Area from 2002 to 2022 in comparison to the 1997, 2008, and 2015 ozone NAAQS. It should be noted that the design values displayed in Figure 2 for counties with multiple monitors (Butler and Hamilton) are the maximum design values for each county, i.e., the highest design value for each year. Overall, Figure 2 demonstrates how the Ohio portion of the Area has a stable or improving air quality trend. Design values used to develop Figure 2 can be found in Appendix A.

**Figure 2 – 8-hour Ozone Design Values for the Ohio Portion of the Cincinnati-Hamilton, OH-KY-IN Maintenance Area**

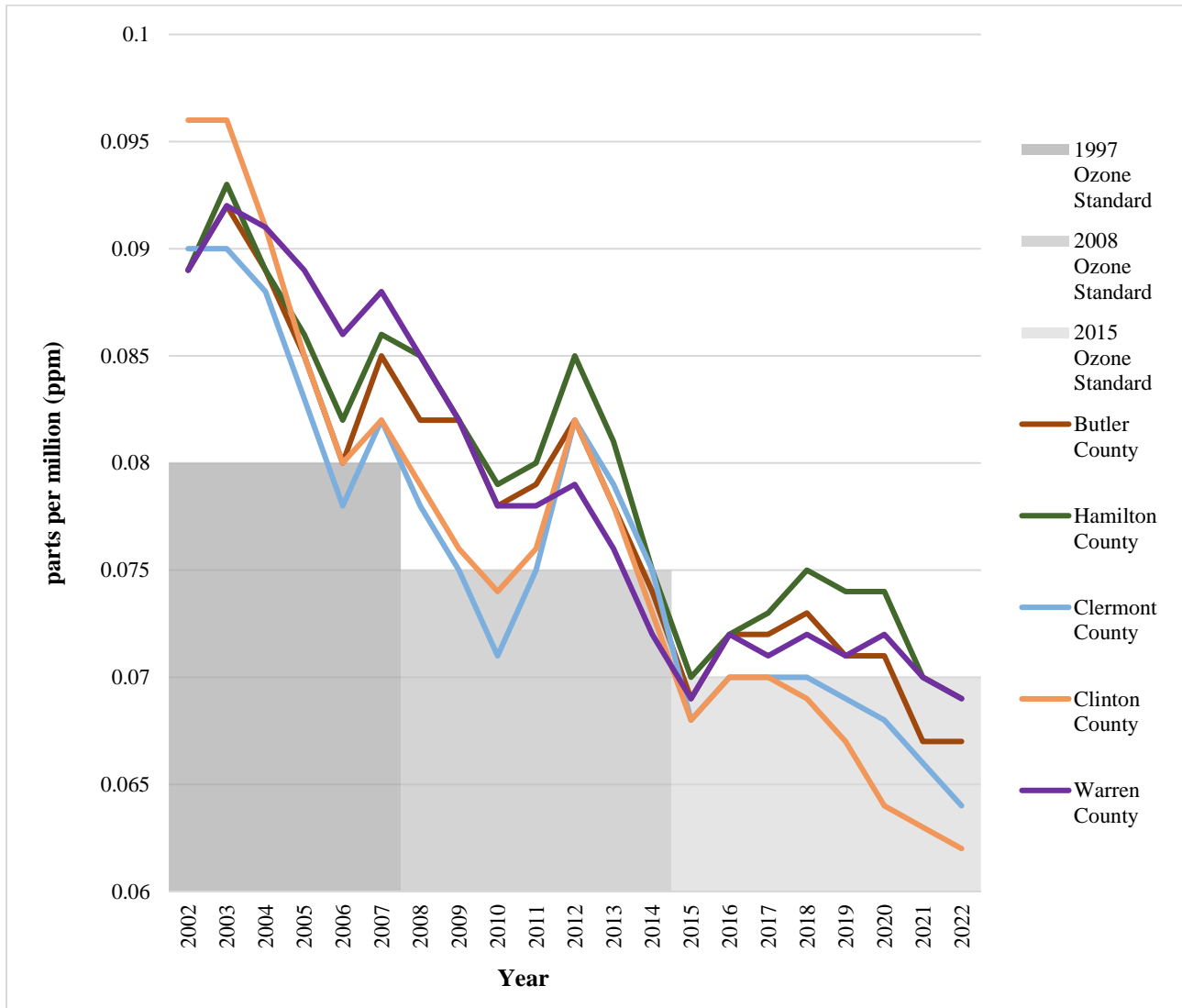


Table 3 shows the design values for the entire Area from 2012 – 2022, which can be found in Appendix A. It should be noted that each design value was calculated by averaging the annual fourth-high maximum values of the 3 most recent years. Overall, Table 3 demonstrates a declining trend in the design values for all the monitors in the Area. Because these trends show continual improvements with regard to air quality in the Area, the Division believes the Area will continue attaining the 1997 ozone NAAQS.

**Table 2 – 8-hour Ozone Design Values for the Cincinnati-Hamilton, OH-KY-IN Maintenance Area (ppm)**

Site ID and Location	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
21-015-0003 (Boone, KY)	0.070	0.067	0.065	0.061	0.063	0.062	0.064	0.063	0.064	0.061	0.061*
21-037-3002 (Campbell, KY)	0.079	0.078	0.075	0.071	0.070	0.069	0.067	0.065	0.063	0.063	0.063
39-017-0018 (Butler, OH)	0.082	0.078	0.073	0.069	0.070	0.071	0.073	0.071	0.071	0.067	0.067
39-017-0023 (Butler, OH)	0.079	0.076	0.073	0.069	0.072	0.072	0.073	0.070	0.069	0.066	0.067
39-017-9991 (Butler, OH)	0.082*	0.077	0.074	0.068	0.069	0.069	0.070	0.068	0.066	0.064	0.064
39-025-0022 (Clermont, OH)	0.082	0.079	0.075	0.068	0.070	0.070	0.070	0.069	0.068	0.066	0.064
39-027-1002 (Clinton, OH)	0.082	0.078	0.073	0.068	0.070	0.070	0.069	0.067	0.064	0.063	0.062
39-061-0006 (Hamilton, OH)	0.085	0.081	0.075	0.070	0.072	0.073	0.075	0.074	0.074	0.070	0.069
39-061-0010 (Hamilton, OH)	0.080	0.075	0.073	0.069	0.072	0.070	0.072	0.070	0.070	0.067	0.067
39-061-0040 (Hamilton, OH)	0.080	0.078	0.073	0.069	0.071	0.071	0.072	0.071	0.070	0.069	0.068
39-165-0007 (Warren, OH)	0.079	0.076	0.072	0.069	0.072	0.071	0.072	0.071	0.072	0.070	0.069

\* Invalid design value

*c. Monitoring Network*

According to the *Calcagni Memo*, areas should continue to operate an air quality monitoring network, in accordance with the Code of Federal Regulations (CFR) in 40 CFR Part 58, to verify continued attainment once redesignated. Additionally, the *Calcagni Memo* requires the maintenance plan to “contain provisions for continued operation of air quality monitors that will provide such verification.”<sup>30</sup>

The Division will continue to operate an ambient air quality monitoring network consistent with the network plan and assessments required by 40 CFR Part 58.10 and 40 CFR Part 58, Appendix D. Any modification to the network will be conducted in accordance with 40 CFR Part 58.14. As

<sup>30</sup> *Calcagni Memo*, *supra* note 9, at 11.

required by 40 CFR Part 58.16, all data collected will be recorded in the Air Quality System (AQS) database and will be available to the public.

*d. Verification of Continued Attainment*

If a maintenance demonstration is based on projected future inventories, the state submitting a maintenance plan should indicate how it will track progress against this metric to ensure assumptions about growth and other factors are accurate.<sup>31</sup>

The Division requires major point sources in all counties to submit air emissions information annually.<sup>32</sup> Pursuant to the Air Emissions Reporting Rule (AERR), 40 CFR Part 51 Subpart A, the Division assists in the preparation of new periodic inventories for all sectors every three years. These inventories will be prepared for future years to comply with the inventory reporting requirements established in the CFR. Emissions information will be compared to the 2019 attainment year and the 2035 projected maintenance year inventories to assess emission trends and to ensure continued compliance with the standard.

The Kentucky portion of the Area currently has two monitors measuring ozone. In accordance with 40 CFR Part 58, the Division is committed to the continued operation of an EPA-approved ambient air quality monitoring network. The ozone-monitoring season for the Area runs from March 1 through October 31. Since there will be no cap on emissions for areas using the LMP, continued operation of the monitoring network is crucial in verifying attainment. Kentucky's Annual Monitoring Network Plan provides the framework for its air quality surveillance. The monitoring network plan undergoes an annual review process to ensure consistency with the regulation.<sup>33</sup>

The Division has the legal authority to implement and enforce the maintenance plan requirements for Boone, Campbell, and Kenton counties.<sup>34</sup> This includes the right to enforce emission control measures that may be necessary to address future ozone attainment issues. Verification of continued attainment is achieved through operating an ambient ozone monitoring network of which the Division operates and manages.

*e. Contingency Plan*

Section 175A(d) of the CAA requires maintenance plans to include provisions for the prompt correction of any violation of the NAAQS.<sup>35</sup> At a minimum, such contingency measures must include all measures contained in the SIP for the Area prior to redesignation. In addition to measures to be adopted to correct any violation, the plan should also contain "a schedule and

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<sup>31</sup> *Id.* at 11.

<sup>32</sup> 401 KAR 52:020, 401 KAR 52:030

<sup>33</sup> EEC, <https://eec.ky.gov/Environmental-Protection/Air/Division%20Reports/2021%20Kentucky%20Annual%20Ambient%20Air%20Monitoring%20Network%20Plan.pdf>

<sup>34</sup> 40 C.F.R. Part 52 Subpart S - Kentucky

<sup>35</sup> 42 U.S.C. §7505a.(d).

procedure for adoption and implementation, and a specific time limit for action” as well as “specific indicators, or triggers” for action.<sup>36</sup>

Future reviews of actual emissions for this redesignated Area will be performed using the latest emission factors, models, and methodologies. For these periodic inventories, the Division will review the assumptions made for the purpose of the maintenance demonstration concerning projected growth of activity levels. If any of these assumptions appear to have changed substantially, the Division will re-project emissions. If an annual fourth-high monitored value of 0.085 ppm or greater occurs in a single ozone season, or if periodic emission inventory updates reveal excessive or unanticipated growth greater than 10% in ozone precursor emissions within the maintenance area, the Division will evaluate existing control measures to see if any further emission reduction measures should be implemented at that time. Implementation of necessary controls in response to an initial "indicator" will take place as expeditiously as possible, but no later than twelve months from the conclusion of the most recent ozone season (October 31) in which the annual fourth-high monitored value of 0.085 ppm or greater occurred.

If a three-year average fourth-high monitored value of 0.085 ppm or greater (i.e., a violation of the standard) occurs within the maintenance area, an “action level” response will take effect. It should be noted that the monitored violation would trigger the Division’s response, rather than certified monitor data. The Division, in conjunction with the metropolitan planning organization or regional council of governments, will determine additional control measures needed to assure future attainment of the NAAQS for ozone. Appropriate contingency measures will be selected to be in place within twenty-four months of a triggered violation.

The contingency measures chosen will be selected based on their ability to bring the Area back into attainment. Potential contingency measures currently maintained by the Division are shown in the following list.

- Implementation of a program to require additional emission reductions on stationary sources, including Reasonably Available Control Technology (RACT) for point sources of VOC and NOx, and, specifically, the adoption of new and revised RACT rules based on Groups II, III, and IV CTGs;
- Implementation of a program to enhance inspection of stationary sources;
- Implementation of fuel programs, including incentives for alternative fuels;
- Restriction of certain roads or lanes to, or construction of such roads or lanes for use by, passenger buses or high-occupancy vehicles;
- Trip-reduction ordinances;
- Employer-based transportation management plans, including incentives;
- Programs for new construction and major reconstructions of paths or tracks for use by pedestrians or by non-motorized vehicles when economically feasible and in the public interest;
- Implementation of a modern vehicle inspection/maintenance program;

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<sup>36</sup> *Calcagni Memo, supra* note 9, at 12-13.

- Implementation of diesel retrofit programs, including incentives for performing retrofits for fleet vehicle operations;
- Additional engine idling reduction programs.

The Division reserves the right to implement other contingency measures if new control programs should be developed and deemed more advantageous for the Area. Prior to the implementation of any contingency measure(s) not listed, the Division will solicit input from all interested and affected parties in the Area. The Division may, after consultation with EPA, implement other contingency measures not listed here.

### **III. Transportation Conformity**

In accordance with CAA Section 176(c), transportation conformity is required to ensure that transportation plans, transportation improvement programs (TIPs), and federally supported highway transit project activities conform to the purpose of the SIP. This means that transportation activities will not cause new air quality violations, worsen existing violations, or delay timely attainment of the NAAQS. Maintenance areas following maintenance plans must demonstrate conformity by remaining below emissions budgets for the area. On November 24, 1993, EPA promulgated the transportation conformity regulations to implement Section 176(c) of the CAA, which apply to highways and mass transit.<sup>37</sup> These regulations form the procedures and criteria for deciding whether programs, transportation plans, and projects funded under title 23 U.S.C., or the Federal Transit Act, conform to the state SIP.

As stated in EPA's *Limited Maintenance Plan Option for Nonclassifiable Ozone Nonattainment Areas* (LMP Guidance)<sup>38</sup>, limited maintenance plan areas emissions budgets are considered non-constraining during the length of the initial maintenance period since it is unlikely that the area would experience enough growth within that time to result in an ozone NAAQS violation. Therefore, no cap on emissions is required during the maintenance period that proceeds through 2030.

Upon EPA's approval of this LMP, the budget test requirements of the conformity rule in 40 CFR sections 93.118, 93.119, and 93.120 are considered satisfied. Pursuant to 40 CFR 93.108, for transportation plans, transportation improvement programs, and regionally significant projects to proceed, they still require conformity determinations. In accordance with 40 CFR 93.109(e), a regional emissions analysis is not required in a conformity analysis for this Area. However, it should be noted that the Area is still required to do a regional emissions analysis with a budget test for the 2008 and 2015 8-hour ozone NAAQS.

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<sup>37</sup> 58 FR 62188

<sup>38</sup> EPA: Limited Maintenance Plan Option for Nonclassifiable Ozone Nonattainment Areas, November 16, 1994.

#### **IV. Conclusion**

The most recent three years of ozone monitoring data (2020-2022) for the Area demonstrate continued compliance with the 1997 8-hour ozone NAAQS, with current air quality levels significantly below the level of the standard. Furthermore, the Area has a stable or improving air quality trend. This LMP shows emissions continue to remain below the level of the initial attainment inventory and the Division will continue to operate its monitoring network to verify continued attainment. The contingency plan is in place in the event of a violation of the standard.

The Division therefore requests that this subsequent 10-year LMP for the Kentucky counties located within the Cincinnati-Hamilton, OH-KY-IN 1997 8-hour ozone maintenance area be approved by EPA.



# **APPENDIX A**

## **Monitoring Data**

User ID: JNALL

DESIGN VALUE REPORT

Report Request ID: 2128364

Report Code: AMP480

Sep. 8, 2023

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	21	015									
	21	037									
	21	117									
	39	017									
	39	025									
	39	027									
	39	061									
	39	165									
	18	029									

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
DESIGN VALUE	44201		

SELECTED OPTIONS

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

DATE CRITERIA

Start Date	End Date
2002	2022

APPLICABLE STANDARDS

Standard Description
Ozone 8-hour 2015

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2002

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2002				2001				2000				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	244	100	.094	Y	243	99	.083	Y	244	100	.083	Y	100	.086	Y
21-037-0003	700 ALEXANDRIA PK, WATER PLT, FT THOMAS	242	99	.102	Y	237	97	.088	Y	243	99	.093	Y	98	.094	Y
21-117-0007	1401 DIXIE HWY, UNIVERSITY COLLEGE	242	99	.096	Y	243	99	.082	Y	234	96	.087	Y	98	.088	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: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2003

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2003				2002				2001				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	236	96	.078	Y	244	100	.094	Y	243	99	.083	Y	98	.085	Y
21-037-0003	700 ALEXANDRIA PK, WATER PLT, FT THOMAS	241	98	.085	Y	242	99	.102	Y	237	97	.088	Y	98	.091	Y
21-117-0007	1401 DIXIE HWY, UNIVERSITY COLLEGE	241	98	.079	Y	242	99	.096	Y	243	99	.082	Y	99	.085	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2004

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2004				2003				2002				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	244	100	.070	Y	236	96	.078	Y	244	100	.094	Y	99	.080	Y
21-037-0003	700 ALEXANDRIA PK, WATER PLT, FT THOMAS	238	97	.076	Y	241	98	.085	Y	242	99	.102	Y	98	.087	Y
21-117-0007	1401 DIXIE HWY, UNIVERSITY COLLEGE	231	94	.072	U	241	98	.079	Y	242	99	.096	Y	97	.082	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2005

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2005				2004				2003				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	233	95	.082	Y	244	100	.070	Y	236	96	.078	Y	97	.076	Y
21-037-0003	700 ALEXANDRIA PK, WATER PLT, FT THOMAS	244	100	.090	Y	238	97	.076	Y	241	98	.085	Y	98	.083	Y
21-117-0007	1401 DIXIE HWY, UNIVERSITY COLLEGE	242	99	.084	Y	231	94	.072	U	241	98	.079	Y	97	.078	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).
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2006

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2006				2005				2004				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	243	99	.071	U	233	95	.082	Y	244	100	.070	Y	98	.074	Y
21-037-0003	700 ALEXANDRIA PK, WATER PLT, FT THOMAS	12	5	.033 *	U	244	100	.090	Y	238	97	.076	Y	67	.066	N
21-117-0007	1401 DIXIE HWY, UNIVERSITY COLLEGE	238	97	.075	U	242	99	.084	Y	231	94	.072	U	97	.077	Y

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 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

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**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2007

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2007				2006				2005				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	243	99	.078	U	243	99	.071	U	233	95	.082	Y	98	.077	Y
21-037-0003	700 ALEXANDRIA PK, WATER PLT, FT THOMAS				*	12	5	.033	* U	244	100	.090	Y	35	.061	N
21-037-3002	524A JOHN'S HILL ROAD	122	50	.086	* U				*				*	17	.086	N
21-117-0007	1401 DIXIE HWY, UNIVERSITY COLLEGE	242	99	.085	U	238	97	.075	U	242	99	.084	Y	98	.081	Y

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

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**Pollutant:** Ozone(44201)

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**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2008

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2008				2007				2006				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	240	98	.064	Y	243	99	.078	U	243	99	.071	U	99	.071	Y
21-037-0003	700 ALEXANDRIA PK, WATER PLT, FT THOMAS				*				*	12	5	.033*	U	2	.033	N
21-037-3002	524A JOHN'S HILL ROAD	241	98	.075	Y	122	50	.086*	U				*	49	.080	N
21-117-0007	1401 DIXIE HWY, UNIVERSITY COLLEGE	241	98	.073	Y	242	99	.085	U	238	97	.075	U	98	.077	Y

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

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**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2009

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2009				2008				2007				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	240	98	.064	U	240	98	.064	Y	243	99	.078	U	98	.068	Y
21-037-3002	524A JOHN'S HILL ROAD	243	99	.068	U	241	98	.075	Y	122	50	.086*	U	82	.076	Y
21-117-0007	1401 DIXIE HWY, UNIVERSITY COLLEGE	241	98	.074	U	241	98	.073	Y	242	99	.085	U	98	.077	Y

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

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**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2010

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2010				2009				2008				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	244	100	.067	U	240	98	.064	U	240	98	.064	Y	99	.065	Y
21-037-3002	524A JOHN'S HILL ROAD	237	97	.073	U	243	99	.068	U	241	98	.075	Y	98	.072	Y
21-117-0007	1401 DIXIE HWY, UNIVERSITY COLLEGE	88	36	.064 *	U	241	98	.074	U	241	98	.073	Y	77	.070	Y

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

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**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2011

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2011				2010				2009				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	238	97	.070	U	244	100	.067	U	240	98	.064	U	98	.067	Y
21-037-3002	524A JOHN'S HILL ROAD	242	99	.080	U	237	97	.073	U	243	99	.068	U	98	.073	Y
21-117-0007	1401 DIXIE HWY, UNIVERSITY COLLEGE				*	88	36	.064 *	U	241	98	.074	U	45	.069	N

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

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**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2012

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2012				2011				2010				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	244	100	.074	Y	238	97	.070	U	244	100	.067	U	99	.070	Y
21-037-3002	524A JOHN'S HILL ROAD	242	99	.084	Y	242	99	.080	U	237	97	.073	U	98	.079	Y
21-117-0007	1401 DIXIE HWY, UNIVERSITY COLLEGE				*				*	88	36	.064*	U	12	.064	N

- Notes:**
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
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**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2013

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2013				2012				2011				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	243	99	.059	Y	244	100	.074	Y	238	97	.070	U	99	.067	Y
21-037-3002	524A JOHN'S HILL ROAD	243	99	.072	Y	242	99	.084	Y	242	99	.080	U	99	.078	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: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2014

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2014				2013				2012				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	244	100	.062	Y	243	99	.059	Y	244	100	.074	Y	100	.065	Y
21-037-3002	524A JOHN'S HILL ROAD	240	98	.071	Y	243	99	.072	Y	242	99	.084	Y	99	.075	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015  
**Statistic:** Annual 4th Maximum

**Design Value Year:** 2015

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** .07

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2015				2014				2013				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	242	99	.062	Y	244	100	.062	Y	243	99	.059	Y	99	.061	Y
21-037-3002	524A JOHN'S HILL ROAD	243	99	.071	Y	240	98	.071	Y	243	99	.072	Y	99	.071	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).
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2016

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2016				2015				2014				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	240	98	.065	Y	242	99	.062	Y	244	100	.062	Y	99	.063	Y
21-037-3002	524A JOHN'S HILL ROAD	243	99	.069	Y	243	99	.071	Y	240	98	.071	Y	99	.070	Y

- Notes:**
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 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

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**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2017

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2017				2016				2015				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	221	90	.060	Y	240	98	.065	Y	242	99	.062	Y	96	.062	Y
21-037-3002	524A JOHN'S HILL ROAD	227	93	.068	Y	243	99	.069	Y	243	99	.071	Y	97	.069	Y

- Notes:**
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  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: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2018

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2018				2017				2016				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	241	98	.068	S	221	90	.060	Y	240	98	.065	Y	95	.064	Y
21-037-3002	524A JOHN'S HILL ROAD	239	98	.066	S	227	93	.068	Y	243	99	.069	Y	97	.067	Y

- Notes:**
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  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: Sep. 8, 2023

Pollutant: Ozone(44201)

Standard Units: Parts per million(007)

NAAQS Standard: Ozone 8-hour 2015

Statistic: Annual 4th Maximum Level: .07

Design Value Year: 2019

REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

State: Kentucky

Site ID	Poc STREET ADDRESS	2019				2018				2017				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	237	97	.062	Y	241	98	.068	S	221	90	.060	Y	95	.063	Y
21-037-3002	524A JOHN'S HILL ROAD	237	97	.062	Y	239	98	.066	S	227	93	.068	Y	96	.065	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2020

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2020				2019				2018				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	239	98	.062	Y	237	97	.062	Y	241	98	.068	S	98	.064	Y
21-037-3002	524A JOHN'S HILL ROAD	237	97	.063	Y	237	97	.062	Y	239	98	.066	S	97	.063	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).
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2021

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2021				2020				2019				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD	213	87	.061	Y	239	98	.062	Y	237	97	.062	Y	94	.061	Y
21-037-3002	524A JOHN'S HILL ROAD	237	97	.064	Y	237	97	.063	Y	237	97	.062	Y	97	.063	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015  
**Statistic:** Annual 4th Maximum

**Design Value Year:** 2022

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** .07

**State:** Kentucky

Site ID	Poc STREET ADDRESS	2022				2021				2020				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
21-015-0003	KY 338 & LOWER RIVER ROAD				*	213	87	.061	Y	239	98	.062	Y	62	.061	N
21-015-0008	9101 Camp Ernst Rd	196	80	.066	Y				*				*	27	.066	N
21-037-3002	524A JOHN'S HILL ROAD	239	98	.062	Y	237	97	.064	Y	237	97	.063	Y	97	.063	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).
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  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: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2002

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2002				2001				2000				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	210	98	.098	Y	212	99	.087	U	209	98	.084	Y	98	.089	Y
39-017-0023	2200 HENSLEY AVE.	213	100	.100	Y	213	100	.083	U	213	100	.082	Y	100	.088	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	0			* X	0			* X	0			* X			N
39-025-0022	2400 CLERMONT CENTER DR.	210	98	.098	Y	206	96	.083	U	204	95	.090	Y	96	.090	Y
39-027-1002	300 Oak Drive Wilmington, 45177	206	96	.099	Y	213	100	.093	U	213	100	.097	Y	99	.096	Y
39-061-0006	11590 GROOMS RD	210	98	.100	Y	211	99	.088	U	208	97	.081	Y	98	.089	Y
39-061-0010	6950 RIPPLE RD.	205	96	.096	Y	202	94	.080	U	208	97	.080	Y	96	.085	Y
39-061-0040	250 WM. HOWARD TAFT	213	100	.095	Y	211	99	.083	U	212	99	.085	Y	99	.087	Y
39-165-0007	430 S EAST ST.	212	99	.098	Y	213	100	.085	U	212	99	.086	Y	99	.089	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).
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015  
**Statistic:** Annual 4th Maximum

**Design Value Year:** 2003

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

Site ID	Poc STREET ADDRESS	2003				2002				2001				3 - Year		
		Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Valid	Percent	4th	Cert&	Percent	Design	D. V.
		Days	Complete	Max	Eval	Days	Complete	Max	Eval	Days	Complete	Max	Eval	Complete	Value	Validity
39-017-0018	1707 Runway Drive, Room #4	211	99	.083	Y	210	98	.098	Y	212	99	.087	U	99	.089	Y
39-017-0023	2200 HENSLEY AVE.	209	98	.094	Y	213	100	.100	Y	213	100	.083	U	99	.092	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	0			* X	0			* X	0			* X			N
39-025-0022	2400 CLERMONT CENTER DR.	209	98	.090	Y	210	98	.098	Y	206	96	.083	U	97	.090	Y
39-027-1002	300 Oak Drive Wilmington, 45177	212	99	.096	Y	206	96	.099	Y	213	100	.093	U	98	.096	Y
39-061-0006	11590 GROOMS RD	209	98	.093	Y	210	98	.100	Y	211	99	.088	U	98	.093	Y
39-061-0010	6950 RIPPLE RD.	212	99	.087	Y	205	96	.096	Y	202	94	.080	U	96	.087	Y
39-061-0040	250 WM. HOWARD TAFT	211	99	.083	Y	213	100	.095	Y	211	99	.083	U	99	.087	Y
39-165-0007	430 S EAST ST.	211	99	.095	Y	212	99	.098	Y	213	100	.085	U	99	.092	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2004

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2004				2003				2002				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	213	100	.076	Y	211	99	.083	Y	210	98	.098	Y	99	.085	Y
39-017-0023	2200 HENSLEY AVE.	212	99	.075	Y	209	98	.094	Y	213	100	.100	Y	99	.089	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	0			* X	0			* X	0			* X			N
39-025-0022	2400 CLERMONT CENTER DR.	211	99	.076	Y	209	98	.090	Y	210	98	.098	Y	98	.088	Y
39-027-1002	300 Oak Drive Wilmington, 45177	213	100	.078	Y	212	99	.096	Y	206	96	.099	Y	98	.091	Y
39-061-0006	11590 GROOMS RD	210	98	.076	Y	209	98	.093	Y	210	98	.100	Y	98	.089	Y
39-061-0010	6950 RIPPLE RD.	213	100	.075	Y	212	99	.087	Y	205	96	.096	Y	98	.086	Y
39-061-0040	250 WM. HOWARD TAFT	212	99	.076	Y	211	99	.083	Y	213	100	.095	Y	99	.084	Y
39-165-0007	430 S EAST ST.	212	99	.081	Y	211	99	.095	Y	212	99	.098	Y	99	.091	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2005

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2005				2004				2003				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	213	100	.088	Y	213	100	.076	Y	211	99	.083	Y	100	.082	Y
39-017-0023	2200 HENSLEY AVE.	212	99	.086	Y	212	99	.075	Y	209	98	.094	Y	99	.085	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	0			* X	0			* X	0			* X			N
39-025-0022	2400 CLERMONT CENTER DR.	211	99	.083	Y	211	99	.076	Y	209	98	.090	Y	99	.083	Y
39-027-1002	300 Oak Drive Wilmington, 45177	213	100	.083	Y	213	100	.078	Y	212	99	.096	Y	100	.085	Y
39-061-0006	11590 GROOMS RD	213	100	.089	Y	210	98	.076	Y	209	98	.093	Y	99	.086	Y
39-061-0010	6950 RIPPLE RD.	213	100	.085	Y	213	100	.075	Y	212	99	.087	Y	100	.082	Y
39-061-0040	250 WM. HOWARD TAFT	211	99	.087	Y	212	99	.076	Y	211	99	.083	Y	99	.082	Y
39-165-0007	430 S EAST ST.	210	98	.092	Y	212	99	.081	Y	211	99	.095	Y	99	.089	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Design Value Year:** 2006

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Statistic:** Annual 4th Maximum **Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2006				2005				2004				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	213	100	.076	Y	213	100	.088	Y	213	100	.076	Y	100	.080	Y
39-017-0023	2200 HENSLEY AVE.	212	99	.079	Y	212	99	.086	Y	212	99	.075	Y	99	.080	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	0			* X	0			* X	0			* X			N
39-025-0022	2400 CLERMONT CENTER DR.	212	99	.077	Y	211	99	.083	Y	211	99	.076	Y	99	.078	Y
39-027-1002	300 Oak Drive Wilmington, 45177	213	100	.081	Y	213	100	.083	Y	213	100	.078	Y	100	.080	Y
39-061-0006	11590 GROOMS RD	213	100	.081	Y	213	100	.089	Y	210	98	.076	Y	99	.082	Y
39-061-0010	6950 RIPPLE RD.	213	100	.081	Y	213	100	.085	Y	213	100	.075	Y	100	.080	Y
39-061-0040	250 WM. HOWARD TAFT	213	100	.078	Y	211	99	.087	Y	212	99	.076	Y	99	.080	Y
39-165-0007	430 S EAST ST.	213	100	.086	Y	210	98	.092	Y	212	99	.081	Y	99	.086	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2007

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2007				2006				2005				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	213	100	.091	U	213	100	.076	Y	213	100	.088	Y	100	.085	Y
39-017-0023	2200 HENSLEY AVE.	213	100	.091	U	212	99	.079	Y	212	99	.086	Y	99	.085	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	0			* X	0			* X	0			* X			N
39-025-0022	2400 CLERMONT CENTER DR.	209	98	.086	U	212	99	.077	Y	211	99	.083	Y	99	.082	Y
39-027-1002	300 Oak Drive Wilmington, 45177	213	100	.082	U	213	100	.081	Y	213	100	.083	Y	100	.082	Y
39-061-0006	11590 GROOMS RD	207	97	.089	U	213	100	.081	Y	213	100	.089	Y	99	.086	Y
39-061-0010	6950 RIPPLE RD.	213	100	.086	U	213	100	.081	Y	213	100	.085	Y	100	.084	Y
39-061-0040	250 WM. HOWARD TAFT	210	98	.086	U	213	100	.078	Y	211	99	.087	Y	99	.083	Y
39-165-0007	430 S EAST ST.	213	100	.088	U	213	100	.086	Y	210	98	.092	Y	99	.088	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Design Value Year:** 2008

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Statistic:** Annual 4th Maximum **Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2008				2007				2006				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	204	95	.079	Y	213	100	.091	U	213	100	.076	Y	98	.082	Y
39-017-0023	2200 HENSLEY AVE.	209	98	.071	Y	213	100	.091	U	212	99	.079	Y	99	.080	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	0			* X	0			* X	0			* X			N
39-025-0022	2400 CLERMONT CENTER DR.	207	97	.071	Y	209	98	.086	U	212	99	.077	Y	98	.078	Y
39-027-1002	300 Oak Drive Wilmington, 45177	208	97	.076	Y	213	100	.082	U	213	100	.081	Y	99	.079	Y
39-061-0006	11590 GROOMS RD	209	98	.086	Y	207	97	.089	U	213	100	.081	Y	98	.085	Y
39-061-0010	6950 RIPPLE RD.	206	96	.077	Y	213	100	.086	U	213	100	.081	Y	99	.081	Y
39-061-0040	250 WM. HOWARD TAFT	211	99	.080	Y	210	98	.086	U	213	100	.078	Y	99	.081	Y
39-165-0007	430 S EAST ST.	205	96	.082	Y	213	100	.088	U	213	100	.086	Y	99	.085	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Design Value Year:** 2009

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Statistic:** Annual 4th Maximum **Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2009				2008				2007				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	213	100	.076	U	204	95	.079	Y	213	100	.091	U	98	.082	Y
39-017-0023	2200 HENSLEY AVE.	210	98	.073	U	209	98	.071	Y	213	100	.091	U	99	.078	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	0			* X	0			* X	0			* X			N
39-025-0022	2400 CLERMONT CENTER DR.	213	100	.069	U	207	97	.071	Y	209	98	.086	U	98	.075	Y
39-027-1002	300 Oak Drive Wilmington, 45177	209	98	.070	U	208	97	.076	Y	213	100	.082	U	98	.076	Y
39-061-0006	11590 GROOMS RD	210	98	.072	U	209	98	.086	Y	207	97	.089	U	98	.082	Y
39-061-0010	6950 RIPPLE RD.	174	81	.065	U	206	96	.077	Y	213	100	.086	U	92	.076	Y
39-061-0040	250 WM. HOWARD TAFT	210	98	.074	U	211	99	.080	Y	210	98	.086	U	98	.080	Y
39-165-0007	430 S EAST ST.	213	100	.077	U	205	96	.082	Y	213	100	.088	U	99	.082	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2010

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2010				2009				2008				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	211	99	.080	U	213	100	.076	U	204	95	.079	Y	98	.078	Y
39-017-0023	2200 HENSLEY AVE.	213	100	.077	U	210	98	.073	U	209	98	.071	Y	99	.073	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	0			* X	0			* X	0			* X			N
39-025-0022	2400 CLERMONT CENTER DR.	213	100	.075	U	213	100	.069	U	207	97	.071	Y	99	.071	Y
39-027-1002	300 Oak Drive Wilmington, 45177	212	99	.076	U	209	98	.070	U	208	97	.076	Y	98	.074	Y
39-061-0006	11590 GROOMS RD	213	100	.080	U	210	98	.072	U	209	98	.086	Y	99	.079	Y
39-061-0010	6950 RIPPLE RD.	210	98	.079	U	174	81	.065	U	206	96	.077	Y	92	.073	Y
39-061-0040	250 WM. HOWARD TAFT	214	100	.075	U	210	98	.074	U	211	99	.080	Y	99	.076	Y
39-165-0007	430 S EAST ST.	213	100	.076	U	213	100	.077	U	205	96	.082	Y	99	.078	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015  
**Statistic:** Annual 4th Maximum

**Design Value Year:** 2011

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

Site ID	Poc STREET ADDRESS	2011				2010				2009				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	213	100	.082	U	211	99	.080	U	213	100	.076	U	100	.079	Y
39-017-0023	2200 HENSLEY AVE.	213	100	.078	U	213	100	.077	U	210	98	.073	U	99	.076	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	173	81	.079	U	0			* X	0			* X	27	.079	N
39-025-0022	2400 CLERMONT CENTER DR.	212	99	.082	U	213	100	.075	U	213	100	.069	U	100	.075	Y
39-027-1002	300 Oak Drive Wilmington, 45177	213	100	.084	U	212	99	.076	U	209	98	.070	U	99	.076	Y
39-061-0006	11590 GROOMS RD	211	99	.088	U	213	100	.080	U	210	98	.072	U	99	.080	Y
39-061-0010	6950 RIPPLE RD.	209	98	.078	U	210	98	.079	U	174	81	.065	U	92	.074	Y
39-061-0040	250 WM. HOWARD TAFT	213	100	.085	U	214	100	.075	U	210	98	.074	U	99	.078	Y
39-165-0007	430 S EAST ST.	211	99	.082	U	213	100	.076	U	213	100	.077	U	100	.078	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2012

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2012				2011				2010				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	202	94	.084	Y	213	100	.082	U	211	99	.080	U	98	.082	Y
39-017-0023	2200 HENSLEY AVE.	213	100	.083	Y	213	100	.078	U	213	100	.077	U	100	.079	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	199	93	.085	Y	173	81	.079	U	0			* X	58	.082	N
39-025-0022	2400 CLERMONT CENTER DR.	211	99	.091	Y	212	99	.082	U	213	100	.075	U	99	.082	Y
39-027-1002	300 Oak Drive Wilmington, 45177	213	100	.086	Y	213	100	.084	U	212	99	.076	U	100	.082	Y
39-061-0006	11590 GROOMS RD	206	96	.087	Y	211	99	.088	U	213	100	.080	U	98	.085	Y
39-061-0010	6950 RIPPLE RD.	186	87	.083	Y	209	98	.078	U	210	98	.079	U	94	.080	Y
39-061-0040	250 WM. HOWARD TAFT	213	100	.082	Y	213	100	.085	U	214	100	.075	U	100	.080	Y
39-165-0007	430 S EAST ST.	213	100	.080	Y	211	99	.082	U	213	100	.076	U	100	.079	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015  
**Statistic:** Annual 4th Maximum

**Design Value Year:** 2013

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2013				2012				2011				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	213	100	.068	U	202	94	.084	Y	213	100	.082	U	98	.078	Y
39-017-0023	2200 HENSLEY AVE.	209	98	.068	U	213	100	.083	Y	213	100	.078	U	99	.076	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	203	95	.069	Y	199	93	.085	Y	173	81	.079	U	90	.077	Y
39-025-0022	2400 CLERMONT CENTER DR.	211	99	.066	U	211	99	.091	Y	212	99	.082	U	99	.079	Y
39-027-1002	300 Oak Drive Wilmington, 45177	212	99	.064	U	213	100	.086	Y	213	100	.084	U	100	.078	Y
39-061-0006	11590 GROOMS RD	205	96	.069	U	206	96	.087	Y	211	99	.088	U	97	.081	Y
39-061-0010	6950 RIPPLE RD.	207	97	.064	U	186	87	.083	Y	209	98	.078	U	94	.075	Y
39-061-0040	250 WM. HOWARD TAFT	213	100	.069	U	213	100	.082	Y	213	100	.085	U	100	.078	Y
39-165-0007	430 S EAST ST.	212	99	.067	U	213	100	.080	Y	211	99	.082	U	99	.076	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2014

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2014				2013				2012				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	210	98	.069	Y	213	100	.068	U	202	94	.084	Y	97	.073	Y
39-017-0023	2200 HENSLEY AVE.	212	99	.070	Y	209	98	.068	U	213	100	.083	Y	99	.073	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	203	95	.069	Y	203	95	.069	Y	199	93	.085	Y	94	.074	Y
39-025-0022	2400 CLERMONT CENTER DR.	211	99	.068	Y	211	99	.066	U	211	99	.091	Y	99	.075	Y
39-027-1002	300 Oak Drive Wilmington, 45177	211	99	.070	Y	212	99	.064	U	213	100	.086	Y	99	.073	Y
39-061-0006	11590 GROOMS RD	208	97	.071	Y	205	96	.069	U	206	96	.087	Y	96	.075	Y
39-061-0010	6950 RIPPLE RD.	212	99	.073	Y	207	97	.064	U	186	87	.083	Y	94	.073	Y
39-061-0040	250 WM. HOWARD TAFT	213	100	.069	Y	213	100	.069	U	213	100	.082	Y	100	.073	Y
39-165-0007	430 S EAST ST.	213	100	.071	Y	212	99	.067	U	213	100	.080	Y	100	.072	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2015

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2015				2014				2013				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	212	99	.070	Y	210	98	.069	Y	213	100	.068	U	99	.069	Y
39-017-0023	2200 HENSLEY AVE.	201	94	.070	Y	212	99	.070	Y	209	98	.068	U	97	.069	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	188	88	.068	Y	203	95	.069	Y	203	95	.069	Y	93	.068	Y
39-025-0022	2400 CLERMONT CENTER DR.	210	98	.070	Y	211	99	.068	Y	211	99	.066	U	99	.068	Y
39-027-1002	300 Oak Drive Wilmington, 45177	213	100	.070	N	211	99	.070	Y	212	99	.064	U	99	.068	Y
39-061-0006	11590 GROOMS RD	209	98	.072	Y	208	97	.071	Y	205	96	.069	U	97	.070	Y
39-061-0010	6950 RIPPLE RD.	212	99	.070	Y	212	99	.073	Y	207	97	.064	U	98	.069	Y
39-061-0040	250 WM. HOWARD TAFT	211	99	.071	Y	213	100	.069	Y	213	100	.069	U	100	.069	Y
39-165-0007	430 S EAST ST.	213	100	.071	Y	213	100	.071	Y	212	99	.067	U	100	.069	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2016

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2016				2015				2014				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	210	98	.073	S	212	99	.070	Y	210	98	.069	Y	98	.070	Y
39-017-0023	2200 HENSLEY AVE.	204	95	.076	S	201	94	.070	Y	212	99	.070	Y	96	.072	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	201	94	.071	Y	188	88	.068	Y	203	95	.069	Y	92	.069	Y
39-025-0022	2400 CLERMONT CENTER DR.	211	99	.073	S	210	98	.070	Y	211	99	.068	Y	99	.070	Y
39-027-1002	300 Oak Drive Wilmington, 45177	210	98	.071	S	213	100	.070	N	211	99	.070	Y	99	.070	Y
39-061-0006	11590 GROOMS RD	211	99	.075	S	209	98	.072	Y	208	97	.071	Y	98	.072	Y
39-061-0010	6950 RIPPLE RD.	211	99	.073	S	212	99	.070	Y	212	99	.073	Y	99	.072	Y
39-061-0040	250 WM. HOWARD TAFT	212	99	.073	S	211	99	.071	Y	213	100	.069	Y	99	.071	Y
39-165-0007	430 S EAST ST.	207	97	.074	S	213	100	.071	Y	213	100	.071	Y	99	.072	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015  
**Statistic:** Annual 4th Maximum

**Design Value Year:** 2017

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2017				2016				2015				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	244	100	.070	S	210	98	.073	S	212	99	.070	Y	99	.071	Y
39-017-0023	2200 HENSLEY AVE.	244	100	.072	S	204	95	.076	S	201	94	.070	Y	96	.072	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	212	87	.069	Y	201	94	.071	Y	188	88	.068	Y	90	.069	Y
39-025-0022	2400 CLERMONT CENTER DR.	240	98	.068	S	211	99	.073	S	210	98	.070	Y	98	.070	Y
39-027-1002	300 Oak Drive Wilmington, 45177	244	100	.070	S	210	98	.071	S	213	100	.070	N	99	.070	Y
39-061-0006	11590 GROOMS RD	244	100	.072	S	211	99	.075	S	209	98	.072	Y	99	.073	Y
39-061-0010	6950 RIPPLE RD.	229	93	.068	S	211	99	.073	S	212	99	.070	Y	97	.070	Y
39-061-0040	250 WM. HOWARD TAFT	365	100	.071	S	212	99	.073	S	211	99	.071	Y	99	.071	Y
39-165-0007	430 S EAST ST.	240	98	.068	S	207	97	.074	S	213	100	.071	Y	98	.071	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015  
**Statistic:** Annual 4th Maximum

**Design Value Year:** 2018

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2018				2017				2016				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	243	99	.076	S	244	100	.070	S	210	98	.073	S	99	.073	Y
39-017-0023	2200 HENSLEY AVE.	233	95	.073	S	244	100	.072	S	204	95	.076	S	97	.073	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	239	98	.070	Y	212	87	.069	Y	201	94	.071	Y	93	.070	Y
39-025-0022	2400 CLERMONT CENTER DR.	243	99	.069	S	240	98	.068	S	211	99	.073	S	99	.070	Y
39-027-1002	300 Oak Drive Wilmington, 45177	244	100	.067	S	244	100	.070	S	210	98	.071	S	99	.069	Y
39-061-0006	11590 GROOMS RD	241	98	.080	S	244	100	.072	S	211	99	.075	S	99	.075	Y
39-061-0010	6950 RIPPLE RD.	242	99	.075	S	229	93	.068	S	211	99	.073	S	97	.072	Y
39-061-0040	250 WM. HOWARD TAFT	361	99	.072	S	365	100	.071	S	212	99	.073	S	99	.072	Y
39-165-0007	430 S EAST ST.	238	97	.075	S	240	98	.068	S	207	97	.074	S	97	.072	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2019

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2019				2018				2017				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	240	98	.067	Y	243	99	.076	S	244	100	.070	S	99	.071	Y
39-017-0023	2200 HENSLEY AVE.	244	100	.067	Y	233	95	.073	S	244	100	.072	S	98	.070	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	230	94	.065	Y	239	98	.070	Y	212	87	.069	Y	93	.068	Y
39-025-0022	2400 CLERMONT CENTER DR.	241	98	.071	Y	243	99	.069	S	240	98	.068	S	98	.069	Y
39-027-1002	300 Oak Drive Wilmington, 45177	243	99	.065	Y	244	100	.067	S	244	100	.070	S	100	.067	Y
39-061-0006	11590 GROOMS RD	241	98	.072	Y	241	98	.080	S	244	100	.072	S	99	.074	Y
39-061-0010	6950 RIPPLE RD.	243	99	.067	Y	242	99	.075	S	229	93	.068	S	97	.070	Y
39-061-0040	250 WM. HOWARD TAFT	360	99	.071	Y	361	99	.072	S	365	100	.071	S	99	.071	Y
39-165-0007	430 S EAST ST.	235	96	.070	Y	238	97	.075	S	240	98	.068	S	97	.071	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)  
**Standard Units:** Parts per million(007)  
**NAAQS Standard:** Ozone 8-hour 2015  
**Statistic:** Annual 4th Maximum

**Design Value Year:** 2020

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**Level:** .07

**State:** Ohio

Site ID	Poc STREET ADDRESS	2020				2019				2018				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	235	96	.070	Y	240	98	.067	Y	243	99	.076	S	98	.071	Y
39-017-0023	2200 HENSLEY AVE.	243	99	.067	Y	244	100	.067	Y	233	95	.073	S	98	.069	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	244	100	.064	Y	230	94	.065	Y	239	98	.070	Y	97	.066	Y
39-025-0022	2400 CLERMONT CENTER DR.	244	100	.064	Y	241	98	.071	Y	243	99	.069	S	99	.068	Y
39-027-1002	300 Oak Drive Wilmington, 45177	228	93	.062	Y	243	99	.065	Y	244	100	.067	S	97	.064	Y
39-061-0006	11590 GROOMS RD	242	99	.070	Y	241	98	.072	Y	241	98	.080	S	98	.074	Y
39-061-0010	6950 RIPPLE RD.	243	99	.070	Y	243	99	.067	Y	242	99	.075	S	99	.070	Y
39-061-0040	250 WM. HOWARD TAFT	355	97	.068	Y	360	99	.071	Y	361	99	.072	S	98	.070	Y
39-165-0007	430 S EAST ST.	244	100	.071	Y	235	96	.070	Y	238	97	.075	S	98	.072	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: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum **Level:** .07

**Design Value Year:** 2021

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2021				2020				2019				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	242	99	.064	Y	235	96	.070	Y	240	98	.067	Y	98	.067	Y
39-017-0023	2200 HENSLEY AVE.	234	96	.066	Y	243	99	.067	Y	244	100	.067	Y	98	.066	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	241	98	.063	Y	244	100	.064	Y	230	94	.065	Y	97	.064	Y
39-025-0022	2400 CLERMONT CENTER DR.	241	98	.065	Y	244	100	.064	Y	241	98	.071	Y	99	.066	Y
39-027-1002	300 Oak Drive Wilmington, 45177	239	98	.062	Y	228	93	.062	Y	243	99	.065	Y	97	.063	Y
39-061-0006	11590 GROOMS RD	242	99	.070	Y	242	99	.070	Y	241	98	.072	Y	99	.070	Y
39-061-0010	6950 RIPPLE RD.	242	99	.064	Y	243	99	.070	Y	243	99	.067	Y	99	.067	Y
39-061-0040	250 WM. HOWARD TAFT	362	99	.069	Y	355	97	.068	Y	360	99	.071	Y	98	.069	Y
39-165-0007	430 S EAST ST.	244	100	.069	Y	244	100	.071	Y	235	96	.070	Y	99	.070	Y

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

Report Date: Sep. 8, 2023

**Pollutant:** Ozone(44201)

**Standard Units:** Parts per million(007)

**NAAQS Standard:** Ozone 8-hour 2015

**Statistic:** Annual 4th Maximum      **Level:** .07

**Design Value Year:** 2022

**REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.**

**State:** Ohio

Site ID	Poc STREET ADDRESS	2022				2021				2020				3 - Year		
		Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Valid Days	Percent Complete	4th Max	Cert& Eval	Percent Complete	Design Value	D. V. Validity
39-017-0018	1707 Runway Drive, Room #4	240	98	.067	Y	242	99	.064	Y	235	96	.070	Y	98	.067	Y
39-017-0023	2200 HENSLEY AVE.	243	99	.070	Y	234	96	.066	Y	243	99	.067	Y	98	.067	Y
39-017-9991	Ecology Research Center, Miami University, Oxford, Ohio 45056	220	90	.066	Y	241	98	.063	Y	244	100	.064	Y	96	.064	Y
39-025-0022	2400 CLERMONT CENTER DR.	235	96	.063	Y	241	98	.065	Y	244	100	.064	Y	98	.064	Y
39-027-1002	300 Oak Drive Wilmington, 45177	243	99	.064	Y	239	98	.062	Y	228	93	.062	Y	97	.062	Y
39-061-0006	11590 GROOMS RD	243	99	.069	Y	242	99	.070	Y	242	99	.070	Y	99	.069	Y
39-061-0010	6950 RIPPLE RD.	239	98	.068	Y	242	99	.064	Y	243	99	.070	Y	99	.067	Y
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39-165-0007	430 S EAST ST.	243	99	.069	Y	244	100	.069	Y	244	100	.071	Y	100	.069	Y

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

Report Date: Sep. 8, 2023

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 ('\*').

# **APPENDIX B**

**Public Notice**

**and**

**Statement of Consideration**

**KENTUCKY DIVISION FOR AIR QUALITY PUBLIC NOTICE FOR  
1997 8-HOUR OZONE NATIONAL AMBIENT AIR QUALITY STANDARD, SECOND  
10-YEAR LIMITED MAINTENANCE PLAN FOR KENTUCKY PORTION OF THE  
CINCINNATI-HAMILTON OH-KY-IN MAINTENANCE AREA**

The Kentucky Energy and Environment Cabinet (Cabinet) is requesting EPA's approval that the proposed State Implementation Plan (SIP) revision satisfies the requirements for the second 10-year Limited Maintenance Plan (LMP) for the 1997 8-hour ozone National Ambient Air Quality Standard (NAAQS) for Boone, Campbell and Kenton counties located in the Cincinnati-Hamilton, OH-KY-IN 1997 8-hour ozone nonattainment area. The draft SIP revision LMP demonstrates that emissions continue to remain below the level of the 2008 attainment inventory. The draft SIP revision LMP also ensures the Kentucky Division for Air Quality (Division) will continue to operate its monitoring network to verify continued attainment of the standard and provides a contingency plan in the event of a violation of the standard.

In accordance with 40 CFR 51.102, the Cabinet is making this proposed plan available for public inspection and provides the opportunity for public comment regarding Kentucky's second 10-year LMP for the Cincinnati-Hamilton, OH-KY-IN 1997 8-hour ozone nonattainment area. The proposed plan can be found at <https://eec.ky.gov/Environmental-Protection/Air/Pages/Public-Notices.aspx>. The public comment period will be open from August 15, 2023 through September 20, 2023. Comments should be submitted in writing to the contact person by either mail or email.

The Cabinet will conduct a virtual public hearing on September 20, 2023 at 10:00 a.m. (Eastern Time). This hearing will be held to receive comments on the proposed SIP revision. This hearing is open to the public and all interested persons will be given the opportunity to present testimony. To assure that all comments are accurately recorded, the Division requests that oral comments presented at the hearing are also provided in written form, if possible. It is not necessary that the hearing be held or attended in order for persons to comment on the proposed submittal to EPA. If no request for a public hearing is received by September 13, 2023, the hearing will be cancelled, and notice of the cancellation will be posted at <https://eec.ky.gov/Environmental-Protection/Air/Pages/Public-Notices.aspx>. Written comments should be sent to the contact person and must be received by September 20, 2023, to be considered part of the public record.

Please note that registration is required to participate in this hearing. You must either email your name and mailing address to [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov) or mail this information to Blake Borwig, Division for Air Quality, 300 Sower Building, 2nd Floor, Frankfort, KY 40601. Please put "Registration for 1997 8-hour ozone NAAQS second 10-year LMP for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN Maintenance Area public hearing" as the subject line, and state in the body of the message if you plan to speak during the hearing.

**CONTACT PERSON:** Blake Borwig, Environmental Scientist II, Evaluation Section, Division for Air Quality, 300 Sower Boulevard, Frankfort, Kentucky 40601. Phone: (502) 782-2751; Email: [blake.borwig@ky.gov](mailto:blake.borwig@ky.gov).

**The Energy and Environment Cabinet does not discriminate on the basis of race, color, national origin, sex, age, religion or disability and provides, upon request, reasonable accommodation including auxiliary aids and services necessary to afford an individual with a disability an equal opportunity to participate in all services, programs and activities.**

**STATEMENT OF CONSIDERATION  
Relating to Proposed SIP**

**Second 10-Year Limited Maintenance Plan for the Kentucky Portion of the  
Cincinnati-Hamilton, OH-KY-IN 1997 Ozone NAAQS Maintenance Area**

**Energy and Environment Cabinet  
Kentucky Department for Environmental Protection  
Division for Air Quality**

From August 15, 2023, until September 20, 2023, the Kentucky Division for Air Quality (Division) provided an opportunity for comments on the proposed State Implementation Plan (SIP) revision regarding the second 10-year Limited Maintenance Plan (LMP) for Boone, Campbell, and Kenton counties within the Cincinnati-Hamilton, OH-KY-IN 1997 8-hour ozone maintenance area. The public notice announcing the public comment period included an opportunity to request a virtual public hearing. A request for a public hearing was received; therefore, the scheduled virtual public hearing was held by the Division on September 20<sup>th</sup> at 10 a.m. EDT, however no one attended the hearing apart from Division staff.

During the public comment period, the Division only received comments from the U.S. Environmental Protection Agency (U.S. EPA). All comments and responses are listed below.

**Response to Comments for the proposed SIP revision regarding the second 10-year Limited Maintenance Plan for the Kentucky portion of the Cincinnati-Hamilton, OH-KY-IN Maintenance Area**

- 1. Comment:** Section II (e) Requirements, Contingency Plan (page 8 of the document) – The document states, “If a three-year average fourth-high monitored value of 0.071 ppm [parts per million] or greater (i.e., a violation of the standard) occurs within the maintenance area, an “action level” response will take effect. The Division, in conjunction with the metropolitan planning organization or regional council of governments, will determine additional control measures needed to assure future attainment of the NAAQS for ozone. Contingency measures that can be implemented in a short time will be selected in order to be in place within twenty-four months of a triggered violation.”
- a. Please fully define when it will be determined that this violation trigger has occurred, e.g., at the time of the monitored violation or at the time data has been fully certified and fully gone through the quality control process.
  - b. Also, please clarify that the contingency measures will be selected based on their ability to bring the area back into attainment.
  - c. Also, please commit to implementing appropriate contingency measure(s) within 24 months of the clearly defined violation trigger.

*(Lynorae Benjamin, U.S. EPA)*

**Response:** The Division acknowledges this comment.

- a. Please see page 11 for added language. “It should be noted that the monitored violation would trigger the Division’s response, rather than certified monitor data.” Evaluation of existing control measures to see if any further emission reduction measures should be



implemented starts at the time of the monitored violation, not when data has been fully certified.

- b. Please see page 11 for the added language, “The contingency measures chosen will be selected based on their ability to bring the Area back into attainment.”
- c. Please see page 11 for the added language, “Appropriate contingency measures will be selected to be in place within twenty-four months of a triggered violation.”

**2. Comment:** Section II (e) Requirements, *Contingency Plan* (page 8 of the document) – The document states, “Potential contingency measures may be chosen from the following list; however, the Division also reserves the right to implement other contingency measures if new control programs should be developed and deemed more advantageous for the area.” Please revise this language to state that the Division will seek out and receive the EPA approval prior to implementing other contingency measures if the Division determines that new control programs not listed here are needed/are more advantageous for the area.

*(Lynorae Benjamin, U.S. EPA)*

**Response:** The Division acknowledges this comment. Please see the added language on page 12, “Prior to the implementation of any contingency measure(s) not listed, the Division will solicit input from all interested and affected parties in the Area. The Division may, after consultation with EPA, implement other contingency measures not listed here”.

**3. Comment:** Section I (b) Background & Introduction, *Requirements* (page 3 of the document) – The document states, “Recent design values demonstrate that the Area is continuing to attain the 1997 ozone standard. In 2021, Boone County had a design value of 0.061 ppm and Campbell County had a design value of 0.063 ppm; these design values signify that the Kentucky portion of the Area is expected to continue attaining the standard through at least 2030.” All monitors in the nonattainment area, including those in other states in a multi-state area, must be taken into account when determining whether an area is attaining and expected to continue attaining the standard. While Appendix A does include Ohio monitor data, the analyses and conclusions documented in the narrative should be based on all of the monitors in the area, not just the Kentucky monitors.

*(Lynorae Benjamin, U.S. EPA)*

**Response:** The Division acknowledges this comment. The SIP’s narrative has been updated to include all monitors in the entire maintenance area.

**4. Comment:** Section II (b) Requirements, Maintenance Demonstration (page 5 and 6 of the document) – Table 2 and narrative, Figure 1 and Table 3 and narrative, only include Kentucky monitoring data instead of monitoring data for the entire multistate area. All monitors in the nonattainment area, including those in other states in a multi-state area, must be taken into account when determining whether an area is attaining and expected to continue attaining the standard and also taken into account for determining the possibility of submitting a Limited Maintenance Plan. While Appendix A does include Ohio monitor data, the analyses and conclusions documented in the narrative, Tables and Figures should be based on all of the monitors in the area, not just the Kentucky monitors.

*(Lynorae Benjamin, U.S. EPA)*

**Response:** The Division acknowledges this comment. The SIP’s narrative has been updated to include all monitors in the entire maintenance area. Additionally, Table 2 has been updated with 2020-2022 8-hour Ozone annual 4th high maximum values and design values for all monitors in the entire Area, and Table 3 has been updated with 8-hour Ozone design values from 2012-2022 for all monitors in the entire Area. Figure 2 has also been added to further demonstrate reductions of ozone in the entire Area.

**5. Comment:** Section II (e) Requirements, *Contingency Plan* (page 8 of the document) – The document states, “If an annual fourth-high monitored value of 0.071 ppm or greater occurs in a single ozone season, or if periodic emission inventory updates reveal excessive or unanticipated growth greater than 10% in ozone precursor emissions within the maintenance area, the Division will evaluate existing control measures to see if any further emission reduction measures should be implemented at that time. Implementation of necessary controls in response to an initial "indicator" response will take place as expeditiously as possible, but in no event later than twelve months from a monitored value of 0.071 ppm or greater at the conclusion of the most recent ozone season (October 31).” Please note, the standard in question for this maintenance plan is the 1997 Ozone NAAQS, i.e., 0.08 ppm, effectively 0.084 ppm and is not the 2015 Ozone NAAQS of 0.070 ppm.

*(Lynorae Benjamin, U.S. EPA)*

**Response:** The Division acknowledges this comment. The wording has been corrected in the document to properly reflect the 1997 Ozone NAAQS.

**6. Comment:** Section II (e) Requirements, *Contingency Plan* (page 8 of the document) – The document states, “If a three-year average fourth-high monitored value of 0.071 ppm or greater (i.e., a violation of the standard) occurs within the maintenance area, an “action level” response will take effect. The Division, in conjunction with the metropolitan planning organization or regional council of governments, will determine additional control measures needed to assure future attainment of the NAAQS for ozone. Contingency measures that can be implemented in a short time will be selected in order to be in place within twenty-four months of a triggered violation.” Please note, the standard in question for this maintenance plan is the 1997 Ozone NAAQS, i.e., 0.08 ppm, effectively 0.084 ppm and is not the 2015 Ozone NAAQS of 0.070 ppm.

*(Lynorae Benjamin, U.S. EPA)*

**Response:** The Division acknowledges this comment. The wording has been corrected in the document to properly reflect the 1997 Ozone NAAQS.

**7. Comment: Section III Transportation Conformity** (page 9 of the document)

- a. Please revise the sentence regarding the cap on emissions at the end of paragraph 2.
- b. In the middle of paragraph 3, please add that a regional emissions analysis with the budget test is still required for the 2008 and 2015 8-hour ozone NAAQS for this Area.
- c. In the last sentence of the paragraph, the EPA suggests rewording to say, “In accordance with 40 CFR 93.109(e), a regional emissions analysis is not required in a conformity analysis for this Area”

*(Lynorae Benjamin, U.S. EPA)*

**Response:** The Division acknowledges this comment. The additional language and suggested edits suggested by EPA are now reflected in the document.

- a. Please see the revised language on page 12, “Therefore, no cap on emissions is required during the maintenance period that proceeds through 2030.”
- b. As stated in 40 CFR 93.109(e), “an area is not required to satisfy the regional emissions analysis for §93.118 and/or §93.119 for a given pollutant and NAAQS, if the area has an adequate or approved limited maintenance plan for such pollutant and NAAQS”. Please see the added language on page 12, “However, it should be noted that the Area is still required to do a regional emissions analysis with a budget test for the 2008 and 2015 8-hour ozone NAAQS.”
- c. Please see the changed language on page 12, “In accordance with 40 CFR 93.109(e), a regional emissions analysis is not required in a conformity analysis for this Area.”