REGION 7
LENEXA, KS 66219

November 12, 2024

Mr. Ed Tormey
Division Administrator
Environmental Services Division
Iowa Department of Natural Resources
Wallace State Office Building
502 East 9th Street
Des Moines, Iowa 50319

Re: Partial Approval/Partial Disapproval of Iowa's 2024 Section 303(d) List

Dear Mr. Tormey:

The U.S. Environmental Protection Agency has completed its review of the Clean Water Act Section 303(d) List of Water Quality Limited Segments still requiring Total Maximum Daily Loads, which was submitted as part of the Iowa Department of Natural Resources' 2024 Integrated Report. The list was submitted by Iowa DNR on May 9, 2024. Additional information was requested by the EPA, and a final version of WQLSs was submitted by the Iowa DNR on June 24, 2024. The EPA's decision applies to this final submittal.

Iowa DNR's IR submittal included:

1) A letter identifying the submittal as Iowa's 2024 IR;
2) A 2024 IR, including sections for 305(b);
3) An assessment and listing methodology;
4) A final 2024 303(d) list of WQLSs;
5) A summary of waters removed from Iowa's 2022 section 303(d) list of WQLSs;
6) External data pertinent to Iowa DNR's assessment and listing decisions;
7) A TMDL Vision Strategy for prioritizing impaired waters for restoration and developing TMDLs;
8) A public participation responsiveness summary, including copies of all public comments and state responses.

The Iowa DNR's section 303(d) list submission contains five categories of waters, with Category 5 waters indicating WQLSs still requiring TMDLs subject to the EPA's approval. The state submitted 705 WQLSs for 577 water bodies within Category 5 of Iowa DNR's 303(d) list. Based on its review, the EPA

has determined that the Iowa DNR's 2024 CWA 303(d) list partially meets and partially does not meet the requirements of CWA section 303(d) and the EPA's implementing regulations. The EPA is therefore partially approving and partially disapproving the state's 2024 303(d) list.

The EPA has identified seven WQLSs to include on Iowa's list, resulting in a total of 712 WQLSs for 581 water bodies for the list. For the seven WQLSs the EPA is partially disapproving (Table 1), the EPA will place these waters on public notice from November 12 to December 12, 2024. Upon completion of the public notice, the EPA will respond to comments received and transmit the list to Iowa DNR.

Table 1. Parameters and water quality limited segments included in Iowa's 2024 303(d) list.

Assessment ID	Assessment Name	Parameter	Data Range	Number of Samples Exceeding 10 mg/L
IA 02-CED-456	Cedar River	Nitrate plus nitrite as N	2020-2022	4
IA 04-LDM-1011	Des Moines River	Nitrate plus nitrite as N	2012-2014	2
IA 04-UDM-1211	Des Moines River	Nitrate plus nitrite as N	2020-2022	8
IA 02-IOW-628	Iowa River	Nitrate as N	2020-2022	13
IA 02-IOW-628	Iowa River	Nitrate plus nitrite as N	2020-2022	3
IA 04-RAC-1116	Raccoon River	Nitrate plus nitrite as N	2020-2022	8
IA 03-SSK-927	South Skunk River	Nitrate plus nitrite as N	2020-2022	2

I congratulate you and your staff for the portion of the list the EPA is approving. This process requires a significant amount of staff resources and involves a complex evaluation and assessment of water quality data. We look forward to working with the Iowa DNR on the development of the 2026 section 303(d) list in the near future. If you would like to further discuss the EPA's 2024 action, please contact my staff, David Pratt at (913) 551-7552 or Chelsea Paxson at (913) 551-7609.

Sincerely,

JEFFERY ROBICHAUD

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Jeffery Robichaud
Director
Water Division

Enclosures
1. Decision document

cc: Lori McDaniel
Iowa DNR

Kayla Lyon
Iowa DNR

Mark Moeller

Iowa DNR

Amy Shields
EPA R7

James Havard
EPA OWOW

Rosaura Conde
EPA OWOW

United States Environmental Protection Agency Region 7

2024 Decision Document

Iowa's Clean Water Act Section 303(d) List of

Water Quality Limited Segments Still Requiring TMDLs

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Date

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Contents

1. Introduction

This document sets forth the U.S. Environmental Protection Agency's (EPA) reasoning for partially approving/partially disapproving Iowa's 2024 Clean Water Act (CWA) Section 303(d) list (303(d) list). The EPA received Iowa's initial 2024 303(d) list on May 9, 2024, through the Assessment, Total Maximum Daily Load (TMDL) Tracking and Implementation System (ATTAINS)[1]. Following the review of Iowa's submission, the EPA requested revisions. A revised submission was received in ATTAINS June 24, 2024, and the EPA is acting on this revised submission.

The EPA has conducted a review of the state's 2024 303(d) list and supporting documentation and information, including changes made from the previous 303(d) list. The EPA reviewed information submitted in ATTAINS and available through Iowa's ADBNet, including data available through AQuIA and BioNet. Based on this review, the EPA has determined that Iowa's 303(d) list of water quality limited segments (WQLSs) still requiring TMDLs (i.e., Category 5 of the state's Integrated Report (IR)) partially satisfies the requirements of Section 303(d) of the CWA and the EPA's implementing regulations. Therefore, the EPA hereby partially approves/partially disapproves Iowa's 2024 303(d) list. The EPA is identifying seven WQLSs to add to the state's 303(d) list. Additional information regarding these additions can be found in the section explaining *Identification of waters for inclusion on the Section 303(d) list*.

The EPA's action regarding Iowa's 303(d) list does not extend to any waterbodies, or portions of waterbodies, that are within Indian country, as defined in 18 USC Section 1151. The EPA is taking no action to approve or disapprove the state's 303(d) list with respect to those waters. The EPA, or eligible Indian Tribes, as appropriate, will retain responsibilities under Section 303(d) for those waters.

2. The EPA's Analysis of Iowa's Submission

Section 303(d)(1) of the CWA and the EPA's implementing regulations at 40 CFR 130.7 require states, territories, and authorized Tribes (herein referred to as "states") to identify waters for which effluent limitations required by CWA Section 301(b)(1)(A) and (B) are not stringent enough to implement any applicable water quality standard. States need not identify on their lists waters where the following controls are adequate to implement applicable standards:

1. Technology-based effluent limitations required by the Act;
2. More stringent effluent limitations required by state or local authority; and
3. Other pollution control requirements required by state, local, or federal authority. 40 CFR 130.7(b)(1) and (2).

CWA Section 303(d) lists must identify WQLSs still requiring TMDLs. 40 CFR 130.7(b). The definition of "water quality limited segment" in 40 CFR 130.2(j) includes any segment where it is known that water quality does not meet applicable water quality standards (referred to as "impaired waters") and any segment that is not expected to meet applicable water quality standards (referred to as "threatened waters").[2] The term

[1] Iowa Department of Natural Resource's (Iowa DNR) submission letter states that the ATTAINS submission is the official submission, except in instances of discrepancy between ATTAINS and the provided Excel version of Iowa DNR's CWA Section 303(d) list. In the event of data discrepancies, the list included in the EPA's decision document is the EPA-approved 303(d) list implementable for CWA purposes.

[2] EPA uses this term to reflect the combination of a water segment and an applicable water quality standard that is not attained or is threatened. For example, if a segment is not meeting three applicable water quality standards then there are three WQLSs for that segment.

"applicable water quality standards" refers to those water quality standards established under Section 303 of the Act, including numeric criteria, narrative criteria, water body uses, and antidegradation requirements. 40 CFR 130.7(b)(3). A WQLS must be on the 303(d) list and requires a TMDL unless the state can demonstrate that no pollutant(s) causes or contributes to the impairment.[3] In addition, in developing their CWA 303(d) lists, states must meet several procedural, submission, and content requirements as described in this decision document.

States must submit their 303(d) lists to the EPA on April 1 of every even-numbered year. 40 CFR 130.7(d)(1). The EPA must approve or disapprove the 303(d) list not later than 30 days after submission. The EPA approves a list only if it meets the requirements of 40 CFR 130.7(b). 40 CFR 130.7(d)(2). If the EPA approves the listing(s), the state must incorporate the listing(s) into its current Water Quality Management (WQM) plan. If the EPA disapproves a listing decision(s), the EPA must, not later than 30 days after the date of such disapproval, identify waters for inclusion on the 303(d) list (i.e., add the waters to the list). The EPA then must promptly issue a public notice seeking comment on the listing(s). After considering public comment and making any revisions the EPA deems appropriate, the EPA must transmit the listing(s) to the state, which must incorporate the listing(s) into its WQM plan. 40 CFR 130.7(d)(2).

In its submission, Iowa used the EPA's recommended categorization for IR reporting:

- Category 1: All designated uses are supported, and no use is threatened.
- Category 2: Available data and/or information indicate that some, but not all of the designated uses are supported.
- Category 3: There is insufficient available data and/or information to make a use support determination. This is denoted as category 3a in Iowa's methodology.
- Category 4: One or more designated uses are impaired or threatened but establishment of a TMDL is not required for the particular cause. The EPA's recommendation for this category includes subcategories 4a, 4b, and 4c.
- Category 5: Available data and/or information indicate that at least one designated use is not being supported or is threatened, and a TMDL is needed. This is denoted as category 5a in Iowa's methodology.

Additionally, Iowa modifies these main categories and identifies the following subcategories:

- Category 3b: Includes water body segments with 'evaluated data' suggesting a potential impairment. According to Iowa DNR's methodology, "waters 'evaluated' as impaired are identified as having insufficient data to determine whether beneficial uses are met." Data determined by Iowa DNR to be 'evaluated data' are not deemed of adequate quality or quantity to determine that a designated use is or is not met according to state water quality standards. Iowa DNR's use of 'evaluated data' for statistical analysis is allowed per the EPA's guidance. Iowa DNR uses this analysis to ensure statistical certainty before listing a water body segment as impaired. Iowa DNR places subcategory 3b water body segments on a list of waters in need of further investigation (WINOFI).

[3] CWA Sections 303(d)(1)(A) and 303(d)(1)(C); 40 CFR § 130.7(b)(4); EPA 2006 Integrated Reporting Memorandum at page 60; EPA 2024 Integrated Reporting Memorandum at pages 18-19. EPA Integrated Reporting Memoranda may be found at https://www.epa.gov/tmdl/integrated-reporting-guidance-under-cwa-sections-303d-305b-and-314.

Iowa DNR further divides subcategory 3b into categories 3bc and 3bu. These subcategories specify whether the assessed aquatic life uses of a stream segment are within the watershed size specified for Iowa DNR's biological assessment protocol.
    - Category 3bc: The 'c' (calibrated) specification indicates the assessed aquatic life use was within a watershed size of 10 to 500 square miles and the stream has been assessed as potentially impaired.
    - Category 3bu: The 'u' (uncalibrated) specification indicates the assessed aquatic life use was within a watershed outside the calibrated range of the biological assessment protocol but the stream has been assessed as potentially impaired.
- Category 4d: Waters impaired by a fish kill where enforcement actions have been taken against a responsible party. Subcategory 4d constitutes a variation on the EPA's guidance.
- Category 5b: Indicates the cause of impairment, usually either a biological impairment or fish kill, is unknown and additional information is required before TMDL development.
    - Category 5bv: The 'v' (verified) category indicates a verified biological impairment based upon monitored assessments.
- Category 5p: Applies to perennial streams and intermittent streams with perennial pools and presumptively applies the primary contact recreation and aquatic life uses to the segment.

Although Iowa's IR describes the status of all of Iowa's waters, the EPA is only acting on the waters listed in Category 5 of the IR, which is the Section 303(d) list. The statutory and regulatory requirements, and the EPA's review of the state's compliance with the requirements, are described in detail in this document. To the extent that any EPA-approved listing decisions are unchanged from prior approved Section 303(d) list actions, the EPA incorporates the reasoning of those previous list actions unless otherwise noted.

A. Supporting documentation for making listing determinations

The EPA regulations at 40 CFR 130.7(b)(6) require states to include, as part of their submissions to the EPA, documentation to support the state's determination to list or not to list its waters. Such documentation must include, at a minimum, the information discussed in subsections i through iv, immediately below.

i. Description of the methodology used to develop the 303(d) list. 40 CFR 130.7(b)(6)(i).

The EPA regulations at 40 CFR 130.7(b)(6) require states to include a description of the methodology used to develop the 303(d) list.[4] The EPA finds that Iowa has provided a description of its methodologies used for determining whether its waters are achieving the state's water quality standards in its *Methodology for Iowa's 2024 Water Quality Assessment, Listing, and Reporting Pursuant to Sections 305(b), 303(d), and 314 of the Federal Clean Water Act*, satisfying the regulatory requirement to provide a "description of the methodology used to develop the list." 40 CFR 130.7(b)(6)(i). The EPA has considered the state's methodology as part of its review of the state's 303(d) list.

Since the 2022 submission, Iowa DNR has substantially revised their methodology. The EPA does not approve or disapprove assessment methodologies. Instead, in acting on CWA 303(d) lists, the EPA evaluates whether the state met listing requirements in determining whether applicable water quality standards are met and included waters requiring TMDLs on its 303(d) list.[5] Additional methodology changes for the 2024 list include:

[4] EPA 2006 Integrated Reporting Memorandum at 29.
[5] EPA 2024 Integrated Reporting Memorandum at 15.

- One assessment cycle will be used to impair and delist all impairments. Previously, two assessment cycles were used to assess listings and delistings.
- The 10% rule has been modified to consistently assess data sets with less than 10 samples (referred to in the methodology as the 7, 8, 9 rule).
- All Class C (drinking water) and Class HH (human health) waters will be assessed for toxic parameters using annual averages when sufficient data exists and overall averages when insufficient data exists.
- Ammonia assessments for Class B (aquatic life) waters will be assessed as impaired when there is more than one criteria exceedance in a three-year period.

The EPA appreciates the state's collaboration on some of these changes, particularly for using data sets with less than 10 samples and assessing ammonia as a pollutant with toxic effects. Additionally, the EPA would like to note items discussed with the state regarding its 2024 303(d) methodology, particularly for pollutants with toxic effects and aluminum.

As the EPA noted in its public comment to Iowa DNR, the state is not assessing all pollutants with toxic effects with reasonable consideration of the individual pollutant, endpoints, and adverse effects being considered. A complete list of conventional pollutants designated pursuant to CWA section 304(a)(4) includes biochemical oxygen demand, total suspended solids, pH, fecal coliform, and oil and grease. 40 CFR 401.16. Pollutants not designated otherwise are categorized as nonconventional pollutants, all of which must be assessed considering the individual pollutant, endpoints, and adverse effects being considered in order to be protective of the water quality standard.

During Iowa's development of the 2024 list, the EPA also discussed Iowa's aluminum methodology, which was updated based upon the new EPA-approved water quality standard (2021). Iowa's new criteria for aluminum is expressed as the bioavailable portion of aluminum. In its water quality standards, Iowa noted that it intends with footnote (r) to provide flexibility in using an emerging, bioavailable analytical method once such a method is validated and approved. In its action letter approving the new criteria for aluminum, the EPA found that Iowa's intent is scientifically sound. For characterizing ambient waters, Iowa may utilize, as scientifically appropriate and as allowable by state and federal regulations, analytical methods that measure the bioavailable fraction of aluminum. The EPA's current understanding is that research on new analytical methods is still ongoing to address concerns with including aluminum bound to particulate matter (i.e., clay) in the total recoverable aluminum concentrations.

Because of this change in standards, Iowa DNR has updated their listing methodology approach for assessing aluminum. According to the new methodology, Iowa DNR is assessing total recoverable aluminum data greater than the bioavailable criterion as 'No Determination Possible'. While total recoverable aluminum data may overestimate bioavailable aluminum, evaluating available total recoverable aluminum data is protective of Iowa's aluminum criteria. Total recoverable aluminum data should be considered until a bioavailable method is available.

The EPA has confirmed that this change in methodology approach did not affect the determination of WQLSs in Iowa's 2024 list and reminds Iowa DNR that it must provide a technical, science-based rationale for not evaluating total recoverable aluminum data rather than defaulting assessments to 'No Determination Possible'.

ii. Description of the data and information used to identify waters. 40 CFR 130.7(b)(6)(ii).

The EPA regulations at 40 CFR 130.7(b)(6)(ii) require states to provide a description of the data and information used to identify waters, including a description of the data and information used by the state as required by 40 CFR 130.7(b)(5).

According to the state's methodology, Iowa DNR used the following data sources to assess water quality conditions to develop the state's 303(d) list:

- Iowa Department of Natural Resources (data assembled from various state programs includes water quality data, fish kills, fish tissue, biology, and continuous dissolved oxygen)
- Iowa drinking water suppliers
- Illinois Environmental Protection Agency
- Minnesota Pollution Control Agency
- Missouri Department of Natural Resources
- Nebraska Department of Environment and Energy
- South Dakota Department of Agriculture and Natural Resources
- Wisconsin Department of Natural Resources
- Iowa Surface Water Supplies
- Long Term Resource Monitoring Program (a part of the Upper Mississippi Environmental Science Center's Upper Mississippi River Restoration Environmental Management Program)
- Meskwaki Nation
- U.S. Environmental Protection Agency (USEPA) Region 7
- U.S. Army Corps of Engineers (USACE)
- U.S. Geological Survey (USGS)
- Prairie Rivers of Iowa

The EPA finds that Iowa has provided a description of the data and information that it assembled and evaluated.[6]

iii. A rationale for any decision to not use any existing and readily available data and information for any one of the categories of waters as described in 40 CFR 130.7(b)(5). 40 CFR 130.7(b)(6)(iii).

The EPA regulations at 40 CFR 130.7(b)(6)(iii) require states to provide a rationale for any decision to not use existing and readily available data and information for any waters as described in 40 CFR 130.7(b)(5). The EPA evaluates whether a state provides a technical, science-based rationale for decisions not to use data or information in developing the list.[7] The EPA has considered the state's rationale as part of its review of the state's 303(d) list and finds Iowa did not provide a technical, science-based rationale for not using all of the available data it assembled and evaluated to develop its list. 40 CFR 130.7(b)(6)(iii). Specific details are provided in Section C of this document.

[6] *Methodology for Iowa's 2024 Water Quality Assessment, Listing, and Reporting Pursuant to Sections 305(b), 303(d), and 314 of the Federal Clean Water Act* at 13.

[7] EPA's 2024 Integrated Reporting Memorandum at footnote 15; EPA's 2006 Integrated Reporting Memorandum at 37.

iv. Other reasonable information requested by the Region. 40 CFR 130.7(b)(6)(iv).

The EPA regulations at 40 CFR 130.7(b)(6)(iv) require states to provide any other reasonable information requested by the EPA. Upon request by the EPA, each state must demonstrate good cause for not including a water or waters on the list. Consistent with 40 CFR 130.7(b)(6)(iv), good cause includes, but is not limited to:

- assessment and interpretation of more recent or accurate data in the record demonstrate that the applicable water quality standards is met;
- more sophisticated water quality modeling;
- flaws in the original analysis that led to the water being listed;
- changes in conditions.

Good cause may also include:

- an EPA-approved or established TMDL;
- demonstration that the impairment is being addressed through more stringent effluent limits or other pollution control requirements; or
- demonstration that the impairment is not caused by a pollutant.

The EPA requested Iowa DNR provide additional information demonstrating good cause regarding their assessment of Clear Creek (IA 01-UIA-235) and Ludlow Creek (IA 01-YEL-446). Iowa provided additional information demonstrating good cause such that the state was not required to list these waters.

B. Public participation

The EPA regulations require states to provide for public participation in the development of their 303(d) lists, including describing their process for involving the public and other stakeholders. 40 CFR 130.7(a). States are expected to demonstrate how they considered public comments in their final decisions. The EPA considers the public comments and state responses as appropriate in its actions on 303(d) lists in determining whether a state has provided reasoned support for its submission.[8]

The state's 2024 303(d) list submission to the EPA included a full list of public comments and the state's responses to comments. Iowa DNR placed their 303(d) list on public notice from March 14, 2024, to April 12, 2024. The notice was distributed through the state's EcoNewsWire and made available through the Iowa DNR's website on ADBNet. During the public notice, the state received six public comments, including comments from the EPA, Iowa Environmental Council, Iowa Chapter of the Sierra Club, and three private citizens. Broadly, these comments addressed:

- Pollutants with toxic effects. The EPA requested Iowa DNR to:
    - Revise assessment of Class "C" waters, removing the non-defensible use of the 10% rule in relation to the nitrate as N, nitrate plus nitrite as N, nitrite as N, and any other pollutants with toxic effects treated as conventional pollutants;
    - Evaluate listings according to the Iowa narrative criteria for Class "C" waters, limiting substances to concentrations in the surface water that are nontoxic or nondetrimental to humans and to the treatment process; and

[8] EPA's 2006 Integrated Reporting Memorandum at 25-26.

    - Assess pollutants with toxic effects with reasonable consideration of the individual pollutant, endpoints, and adverse effects being considered.
- Iowa's lack of numeric nutrient criteria, including microcystin criteria and criteria protective of aquatic life use.
- Prioritization of Outstanding Iowa Waters and pace of TMDL development.
- Iowa's lack of consideration of all readily available data.

The EPA concludes Iowa provided an opportunity for public comment on its 303(d) list. While the EPA acknowledges that Iowa responded to public comments in its final decision, the state did not provide sufficient reasoning for all comments, as explained in the following sections.

C. Assembling, evaluating, and using data and information

i. Assemble and evaluate data and information

States must assemble and evaluate all existing and readily available water quality-related data and information to develop the CWA 303(d) list. 40 CFR 130.7(b)(5). In reviewing a state's 303(d) list submission, the EPA considers whether the state has satisfied the requirements under 40 CFR 130.7(b)(5) to assemble and evaluate all existing and readily available water quality-related data and information when developing their CWA 303(d) lists. This includes, at a minimum, all existing and readily available data and information about the following categories of waters: (1) waters identified as partially meeting or not meeting designated uses, or as threatened, in the state's most recent CWA Section 305(b) report; (2) waters for which dilution calculations or predictive modeling indicate non-attainment of applicable water quality standards; (3) waters for which water quality problems have been reported by local, state, and federal agencies; members of the public; academic institutions (these organizations and groups should be actively solicited for research they may be conducting or reporting); and (4) waters identified as impaired or threatened in any CWA Section 319 nonpoint source assessment submitted to the EPA. In addition to these minimum categories, states are required to assemble and evaluate any other water quality-related data and information that is existing and readily available. 40 CFR 130.7(b)(5).

In addition, the EPA recommends procedures for assessing waters shared between states regarding water-quality data and list inconsistencies. The guidance further recommends that the EPA regional offices and interstate commissions, where applicable, assist in resolving inconsistencies for shared waters.[9] Iowa DNR's methodology addresses shared waters and highlights the state's coordination efforts with and use of data from the states of Minnesota, Wisconsin, Illinois, and Missouri for Mississippi River assessments through the Upper Mississippi River Basin Association's (UMRBA's) Water Quality Task Force.

The EPA has reviewed the state's submission, including the state's description of the data and information that it assembled and evaluated and finds that the state did not satisfy the requirement to assemble and evaluate all existing and readily available water quality-related data and information to develop its list under 40 CFR 130.7(b)(5). The state solicited data from the previously listed organizations from July 31, 2023, to August 31, 2023, but did not assemble and evaluate publicly available data from the Iowa Water Quality Information System, which includes data from the University of Iowa's Iowa Institute for Hydrologic Research (IIHR) and continuous data from the U.S. Geological Survey; data from local and state entities available through the

[9] EPA's 2006 Integrated Reporting Memorandum at 42 to 43.

organization Upper Iowa River; and volunteer data available through the Clean Water Hub. The EPA discusses the exclusion of this data in detail in the section below.

ii. Use of data and information

States must use existing and readily available water quality-related data and information in developing the CWA 303(d) list, 40 CFR 130.7(b)(5), unless they provide a rationale not to use them, 40 CFR 130.7(b)(6)(iii). The EPA evaluates whether a state provides a technical, science-based rationale for decisions not to use data or information in developing the list.[10]

In 2000, the Iowa legislature enacted its 'Credible Data Law' which sets out, in statute, minimum requirements for the use of water-quality data for purposes of state water quality standards development and review, designated use support or classification determinations, water quality degradation identification, water quality assessment, CWA Section 303(d) list changes, and TMDL establishment. However, a WQLS will not be removed from the state's CWA Section 303(d) list simply because the data upon which the impairment was based have aged beyond the stipulations of Iowa's 'Credible Data Law'. Rather, changes to a WQLS requires a technical, science-based rationale. Data excluded from the state's analysis must be based on a technical, science-based rationale and not rely solely upon Iowa's 'Credible Data Law'.

The EPA evaluated whether Iowa provided a technical, science-based rationale for any decisions not to use existing and readily available water quality-related data or information to make a water quality standards attainment status determination and concluded the state did not provide such a rationale for the purposes of 40 CFR 130.7(b)(6)(iii).

As noted in the public comments received, Iowa DNR has not assembled and evaluated all readily available data. Further, it has not provided a technical, science-based rationale for excluding some data and information. The EPA understands Iowa's assertion that "data collected would need to be collected under a DNR or appropriate agency approved QAPP for it to be used for impairing water"[11] and that "test strip sampling methods […] do not meet the accuracy requirements for performing clean water act assessments," to summarize the state's more specific technical concerns in its response to comments. However, the EPA's review and rationale regarding the data and information commented upon differs from that presented by the state in that the EPA believes other data sources should have been assembled and evaluated. The EPA's review primarily addressed those waters referenced in public comments addressed to the state.

In its review, the EPA also considered data accessible online from Upper Iowa River, Clean Water Hub, and Iowa Water Quality Information System. These sites compile data from various entities, including Iowa DNR fisheries, municipalities, volunteers, Iowa State University's IIHR, U.S. Geological Survey, and others. Based upon the data reviewed for the specific waterbodies that were commented upon during the public notice period, the EPA did not find additional waters to add to Iowa DNR's 2024 list. The EPA finds that there are questions and uncertainty about whether the available data and information are temporally or spatially representative or adequately reviewed for quality control. In some instances, samples were collected as single samples or multiple samples collected within a single day, which are the only existing and readily available data and information for the location.

[10] EPA's 2024 Integrated Reporting Memorandum at footnote 15; EPA's 2006 Integrated Reporting Memorandum at 37.
[11] Iowa DNR's Public Participation Responsiveness Summary for Iowa's 2024 Clean Water Act Section 303(d) List.

Additionally, the EPA notes that there is a large volume of data available through the online sites. Where the EPA was able to do so, it identified specific waterbodies. The EPA's statutory duty under section 303(d) focuses on the identification of specific waterbodies that are not meeting the applicable standards. When the EPA disapproves a section 303(d) list, its statutory remedy is to identify water body segments that the state was expected to include on its list.

D. Identification of waters for inclusion on the Section 303(d) list

As noted above, the EPA regulations at 40 CFR 130.7(b)(6) require states to provide documentation to support the state's determination to list or not to list its waters. The EPA has reviewed the state's submission, including its assessment methodology and additional supporting documentation for its listing determinations.

i. Approval of identification of waters for inclusion on the 303(d) list

The EPA determined that Iowa's 2024 303(d) list encompasses some waters consistent with the CWA 303(d) and 40 CFR 130.7 requirements, and the EPA is partially approving all waters the state included on the 303(d) list. The EPA's partial approval of the waters on the 303(d) list is based on the EPA's review of the state's submission including the description of the data and information concerning individual waters, documentation to support decisions to rely or not rely on particular data and information, and a description of how data and information were applied to make water quality standards attainment status determinations. The EPA also considered applicable public comments and responses. The 2024 Iowa 303(d) list, as approved by the EPA, can be found in Table 2 and is available to the public through the EPA's How's My Waterway.

ii. Approval of exclusion of waters identified on previous 303(d) lists

Iowa's 2024 303(d) list submission delists 84 WQLSs. In reviewing the state's 2024 303(d) list, the EPA carefully considered the state's decision to remove certain WQLSs from the 303(d) list submission, its justification for those removals, any applicable comments and responses, and the methodology and standards used in making those decisions. The EPA concludes that the decisions to remove WQLSs identified as part of the 303(d) list are reasonable, based on applicable water quality standards and sound science, and the removal decisions are properly justified. Specific state delistings can be found in Table 3 of this document.

- New data indicates water quality improvement. This applies to 79 WQLSs.
- Consistent with the EPA's regulations at 40 CFR 130.7(b), the state appropriately moved previously-listed waters to Category 4a of the IR where an EPA-approved TMDL is now in place. This applies to 4 WQLSs. The EPA-approved TMDLs are for bacteria impairments for Brushy Creek Lake (IA 04-UDM-1276), Lake Keohma (IA 03-SSK-930), and Prairie Rose Lake (IA 05-NSH-1462). Additionally, there is an EPA-approved TMDL for chlorophyll-a for Lake Anita (IA 05-NSH-1435), though new data also indicates this water is no longer impaired.
- Assessment errors in a previous listing cycle resulted in an incorrectly impaired water. This applies to 1 WQLSs. This error applies to Lake Anita (IA 05-NSH-1435) and the impairment for cyanobacteria hepatotoxic microcystins. This water body was originally impaired in 2014 for algal growth/chlorophyll-a and was incorrectly translated into ATTAINS in 2016. The correct impairment is for chlorophyll-a.

iii. Disapproval and identification of additional waters for inclusion on the list, including identification of pollutants causing or expected to cause a violation of applicable Water Quality Standards (130.7(b)(4))

As part of their CWA 303(d) lists, states are required to identify the pollutants causing or expected to cause violations of the applicable water quality standard. 40 CFR 130.7(b)(4). States must identify in their 303(d) lists

all pollutants that are known to be causing or are expected to cause violations of the applicable water quality standard.[12] The EPA is partially disapproving the state's 2024 303(d) list and identifying seven WQLSs for inclusion on the list. The section below includes the WQLSs and rationale for disapproval. Many of the statements in this decision document echo comments the EPA provided in a public comment to Iowa that were not adequately addressed by the state.

The EPA provided Iowa DNR with a public comment regarding its assessment of nitrate as nitrogen (N), nitrite as N, and nitrate plus nitrite as N. Due to the known human health toxicity of nitrate, the EPA requested that Iowa DNR revise assessment of Class "C" waters, removing the non-defensible use of the 10% rule in relation to nitrate as N, nitrite as N, and nitrate plus nitrite as N.

Iowa DNR has not revised its assessment of these parameters to adequately address them as pollutants with toxic effects or given reasonable consideration of the endpoints and adverse effects being considered. Rather, Iowa DNR has submitted its 2024 303(d) list assessing these parameters using the 10% binomial exceedance statistical approach. As noted in its public comment, the EPA has stated that "[u]se of this rule when addressing conventional pollutants, is appropriate if its application is consistent with the manner in which applicable WQC [Water Quality Criteria] are expressed,"[13] but that such use "regarding effects of toxics is not appropriate[.]"[14]

The EPA regulations at 40 CFR 141.62 sets the MCLs for nitrate, nitrite, and nitrate plus nitrite equivalent to the maximum contaminant level goals (MCLGs). The EPA promulgated the MCLGs for nitrate, nitrite, and nitrate plus nitrite "in order to account for the possible additive toxicity of these two chemicals and also to protect against the deterioration of drinking water quality[.]" Both nitrate and nitrite could result in methemoglobin which will not transport oxygen to human, particularly infant, tissues and "thus can lead to asphyxia (i.e. blue babies) which, if sufficiently severe, can lead to death." Based on the review of data, the EPA concluded that the applicable MCLGs were adequate "to protect infants, and all other groups, against the nononcogenic effects presented by nitrate and nitrite in drinking water[.]"[15]

Furthermore, Subrule 61.3(3)(c)(2) of Iowa's Water Quality Standards, *Specific water quality criteria*, states that "all substances toxic or detrimental to humans or detrimental to treatment process shall be limited to nontoxic or nondetrimental concentrations in the surface water" for streams designated for drinking water use. Iowa's water quality standards, Criteria for Chemical Constituents, provides for drinking water use protection for nitrate as N at 10 milligrams/liter (mg/L), nitrite as N at 1 mg/L, and nitrate plus nitrite as N at 10 mg/L.

Because of nitrate and nitrite's known toxicity, the EPA includes the following parameters and WQLSs in Iowa's 2024 303(d) list (Table 1):

- Nitrate as N: Iowa River (IA 02-IOW-628);

[12] EPA's 2006 Integrated Reporting Memorandum at 17 to 19.
[13] EPA's 2006 Integrated Reporting Memorandum at 41.
[14] EPA's 2004 Integrated Reporting Memorandum at 30.
[15] 40 CFR Parts 141, 142, and 143, EPA's National Primary Drinking Water Regulations: Final Rule, 1991.

- Nitrate plus nitrite as N: Cedar River (IA 02-CED-456), Des Moines River (IA 04-LDM-1011), Des Moines River (IA 04-UDM-1211), Iowa River (IA 02-IOW-628), Raccoon River (IA 04-RAC-1116), and South Skunk River (IA 03-SSK-927).

Existing and readily available data and information support inclusion of these waterbodies on the 303(d) list for exceedances of the nitrate and nitrate plus nitrite WQSs associated with the drinking water use.

Table 1. Parameters and water quality limited segments included in Iowa's 2024 303(d) list.

Assessment ID	Assessment Name	Parameter	Data Range	Number of Samples Exceeding 10 mg/L
IA 02-CED-456	Cedar River	Nitrate plus nitrite as N	2020-2022	4
IA 04-LDM-1011	Des Moines River	Nitrate plus nitrite as N	2012-2014	2
IA 04-UDM-1211	Des Moines River	Nitrate plus nitrite as N	2020-2022	8
IA 02-IOW-628	Iowa River	Nitrate as N	2020-2022	13
IA 02-IOW-628	Iowa River	Nitrate plus nitrite as N	2020-2022	3
IA 04-RAC-1116	Raccoon River	Nitrate plus nitrite as N	2020-2022	8
IA 03-SSK-927	South Skunk River	Nitrate plus nitrite as N	2020-2022	2

E. Priority ranking and two-year TMDL development (130.7(b)(4))

The CWA and its regulations require states to establish a priority ranking for the waters on their CWA 303(d) list "taking into account the severity of the pollution and the uses to be made of such waters." CWA Section 303(d)(1)(A); 40 CFR 130.7(b)(4). The regulations at 40 CFR 130.7(d)(1) provide that states submit to the EPA "the list of waters, pollutants causing impairment, and the priority ranking including waters targeted for TMDL development within the next two years[.]"

Iowa provided a description of how all listed WQLSs are prioritized for TMDL development within the state's 303(d) list submission. The submission includes a priority ranking for all WQLSs that identifies waters targeted for TMDL development in the next two years. The state's submission did not have full information regarding how Iowa took into account the severity of the pollution and the uses of the impaired waters in its priority ranking. Accordingly, discussion with the state to address the regulatory requirements of prioritization is ongoing.

F. Tribal consultation by the EPA

The EPA's policy is to consult on a government-to-government basis with federally recognized tribal governments when EPA actions and decisions may affect Tribes. To promote coordination and consultation, all Tribes that may be affected by the EPA's upcoming action on the state's CWA 303(d) list were identified, notified of the upcoming state's list submission for EPA action, and offered the opportunity to engage in consultation with the EPA. [16] The offer for consultation and coordination concluded after the EPA received Iowa's final 2024 303(d) list.

The EPA offered consultation on this action to Tribes with Tribal Lands within or adjacent to Iowa and posted the offer to the Tribal Consultation Opportunities Tracking System. The EPA coordinated with Tribes to be responsive to requests for information, receive input, and discuss whether and how to engage in government-

[16] EPA Policy on Consultation with Indian Tribes, 2023. Accessible online at www.epa.gov/system/files/documents/2023-12/epa-policy-on-consultation-with-indian-tribes-2023.pdf.

to-government consultation. The EPA received one comment but no requests for consultation. Tribes interested in coordinating or consulting on Iowa waters on future listing cycles are encouraged to contact the EPA.

3. Summary of the EPA's Decision on the 2024 CWA 303(d) List

After careful review of Iowa's final CWA 303(d) list submission, the EPA has determined that Iowa's 2024 303(d) list partially meets the requirements of Section 303(d) of the CWA and the EPA's implementing regulations. Therefore, the EPA partially approves/partially disapproves Iowa's 2024 303(d) list. The EPA will seek public comment for 30 days on the waters it has identified for inclusion on the 303(d) list.

Table 2. The EPA-approved Iowa 2024 CWA Section 303(d) list, including those waters omitted by Iowa DNR.

Definitions: N – Nitrogen; **Bold** – WQLSs added to list; PCBs - Polychlorinated biphenyls; and aka - Also Known As.

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
1	IA 01-MAQ-20	Backbone Lake	*Escherichia coli (E. coli)*	Primary Contact Recreation	
2	IA 04-UDM-1291	Badger Lake	Secchi Disk Transparency	Primary Contact Recreation	
3	IA 02-WFC-820	Bailey Creek	Biological Integrity	Aquatic Life	
4	IA 03-SSK-3053	Ballard Creek	Fish Kill(s)	Aquatic Life	
5	IA 06-LSR-1631	Barringer Slough	Dissolved Oxygen	Aquatic Life	
6	IA 01-TRK-215	Bass Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
7	IA 01-TRK-215	Bass Creek	Thermal Modifications	Aquatic Life	
8	IA 01-TRK-216	Bass Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	X
9	IA 01-UIA-251	Bear Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
10	IA 01-VOL-297	Bear Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
11	IA 02-CED-517	Bear Creek	Benthic Macroinvertebrates	Aquatic Life	X
12	IA 02-CED-517	Bear Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
13	IA 02-CED-523	Bear Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
14	IA 01-UIA-286	Beaver Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
15	IA 01-UIA-286	Beaver Creek	Thermal Modifications	Aquatic Life	
16	IA 02-CED-555	Beaver Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
17	IA 02-CED-557	Beaver Creek	Benthic Macroinvertebrates	Aquatic Life	
18	IA 02-CED-582	Beaver Creek	Benthic Macroinvertebrates	Aquatic Life	
19	IA 04-UDM-1233	Beaver Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
20	IA 02-WFC-818	Beeds Lake	Secchi Disk Transparency	Primary Contact Recreation	
21	IA 04-UDM-1243	Big Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
22	IA 04-UDM-6540	Big Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
23	IA 04-UDM-1242	Big Creek Lake	Chlorophyll-a	Primary Contact Recreation	
24	IA 02-ICD-602	Big Hollow Creek	Fish Kill(s)	Aquatic Life	
25	IA 02-ICD-6496	Big Hollow Lake	Chlorophyll-a	Primary Contact Recreation	X
26	IA 02-ICD-6496	Big Hollow Lake	pH	Aquatic Life, Primary Contact Recreation	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
27	IA 02-ICD-6496	Big Hollow Lake	Secchi Disk Transparency	Primary Contact Recreation	
28	IA 06-BSR-1522	Big Sioux River	Fish Kill(s)	Aquatic Life	
29	IA 06-BSR-1522	Big Sioux River	Selenium	Aquatic Life	X
30	IA 06-BSR-1524	Big Sioux River	pH	Aquatic Life, Primary Contact Recreation	X
31	IA 06-BSR-1525	Big Sioux River	pH	Aquatic Life, Primary Contact Recreation	X
32	IA 02-IOW-656	Big Wall Lake	Dissolved Oxygen	Aquatic Life	
33	IA 01-UIA-284	Bigalks Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
34	IA 01-UIA-284	Bigalks Creek	Thermal Modifications	Aquatic Life	
35	IA 02-CED-546	Black Hawk Creek	Benthic Macroinvertebrates	Aquatic Life	
36	IA 02-CED-546	Black Hawk Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
37	IA 02-CED-550	Black Hawk Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
38	IA 04-RAC-1134	Black Hawk Lake	*Escherichia coli (E. coli)*	Primary Contact Recreation	
39	IA 01-YEL-433	Bloody Run	Benthic Macroinvertebrates	Aquatic Life	X
40	IA 01-YEL-433	Bloody Run	*Escherichia coli (E. coli)*	Primary Contact Recreation	
41	IA 02-CED-518	Blue Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
42	IA 04-RAC-3105	Blue Heron Lake	Secchi Disk Transparency	Primary Contact Recreation	X
43	IA 01-TRK-221	Bohemian Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
44	IA 04-UDM-1252	Boone River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
45	IA 04-UDM-1256	Boone River	Fish Kill(s)	Aquatic Life	
46	IA 06-BOY-1502	Boyer River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
47	IA 06-BOY-1502	Boyer River	Selenium	Aquatic Life	
48	IA 04-UDM-1255	Briggs Woods Lake	Secchi Disk Transparency	Primary Contact Recreation	X
49	IA 01-TRK-217	Brockamp Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
50	IA 06-BSR-1529	Broken Kettle Creek	Biological Integrity	Aquatic Life	
51	IA 01-WPS-358	Brophy Creek	Benthic Macroinvertebrates	Aquatic Life	
52	IA 06-WEM-1735	Browns Lake	Turbidity	Primary Contact Recreation	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
53	IA 01-VOL-317	Brush Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
54	IA 01-VOL-318	Brush Creek	Benthic Macroinvertebrates	Aquatic Life	
55	IA 04-RAC-1209	Brushy Creek	Fish Kill(s)	Aquatic Life	
56	IA 04-RAC-1818	Brushy Creek	Fish Kill(s)	Aquatic Life	
57	IA 01-MAQ-45	Buck Creek	Benthic Macroinvertebrates	Aquatic Life	
58	IA 01-YEL-428	Buck Creek	Benthic Macroinvertebrates	Aquatic Life	X
59	IA 04-EDM-985	Buffalo Creek	Fish Bioassessments	Aquatic Life	
60	IA 04-EDM-986	Buffalo Creek	Fish Bioassessments	Aquatic Life	
61	IA 02-CED-580	Burr Oak Creek	Benthic Macroinvertebrates	Aquatic Life	
62	IA 02-CED-581	Burr Oak Creek	Benthic Macroinvertebrates	Aquatic Life	
63	IA 04-UDM-1826	Buttermilk Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
64	IA 02-WIN-845	Calmus Creek	Biological Integrity	Aquatic Life	
65	IA 01-NEM-6372	Candlelight Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
66	IA 01-UIA-260	Canoe Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
67	IA 06-WEM-1714	Carter Lake	Dissolved Oxygen	Primary Contact Recreation	X
68	IA 01-UIA-275	Casey Springs	*Escherichia coli (E. coli)*	Primary Contact Recreation	
69	IA 01-TRK-124	Catfish Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
70	IA 01-TRK-125	Catfish Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
71	IA 01-TRK-125	Catfish Creek	Fish Kill(s)	Aquatic Life	
72	IA 03-SKU-6549	Cedar Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
73	IA 03-SKU-905	Cedar Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
74	IA 04-LDM-1053	Cedar Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
75	IA 04-LDM-1054	Cedar Creek	Fish Bioassessments	Aquatic Life	
76	IA 02-CED-449	Cedar River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
77	IA 02-CED-451	Cedar River	Benthic Macroinvertebrates	Aquatic Life	
78	IA 02-CED-456	Cedar River	Copper	Aquatic Life	
79	IA 02-CED-462	Cedar River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
80	IA 02-CED-469	Cedar River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
81	IA 02-CED-470	Cedar River	*Escherichia coli (E. coli)*	Primary Contact Recreation	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
82	IA 02-CED-472	Cedar River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
83	IA 02-CED-477	Cedar River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
84	IA 02-CED-477	Cedar River	Mercury - Fish Consumption Advisory	Human Health	
85	IA 02-CED-478	Cedar River	Mercury - Fish Consumption Advisory	Human Health	
86	IA 02-CED-479	Cedar River	Mercury - Fish Consumption Advisory	Human Health	
87	**IA 02-CED-456**	**Cedar River**	**Nitrate plus nitrite as N**	**Drinking Water**	**X**
88	IA 06-LSR-1663	Center Lake	Secchi Disk Transparency	Primary Contact Recreation	X
89	IA 05-CHA-1318	Centerville Reservoir Upper	Mercury - Fish Consumption Advisory	Human Health	
90	IA 05-CHA-1313	Chariton Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
91	IA 05-CHA-1307	Chariton River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
92	IA 05-CHA-1308	Chariton River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
93	IA 05-CHA-1310	Chariton River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
94	IA 05-CHA-1310	Chariton River	Fish Bioassessments	Aquatic Life	
95	IA 05-CHA-1311	Chariton River	Biological Integrity	Aquatic Life	
96	IA 05-CHA-1311	Chariton River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
97	IA 05-CHA-1312	Chariton River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
98	IA 03-SKM-886	Chatfield Lake	Mercury - Fish Consumption Advisory	Human Health	
99	IA 01-UIA-6437	Clark Creek	Fish Kill(s)	Aquatic Life	
100	IA 01-UIA-235	Clear Creek	Benthic Macroinvertebrates	Aquatic Life	X
101	IA 01-UIA-249	Clear Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
102	IA 01-TRK-134	Cloie Branch	Benthic Macroinvertebrates	Aquatic Life	
103	IA 01-TRK-134	Cloie Branch	Temperature	Aquatic Life	
104	IA 01-MAQ-51	Coffins Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
105	IA 01-UIA-280	Coldwater Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
106	IA 01-UIA-265	Coon Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
107	IA 05-CHA-1323	Cooper Creek	Benthic Macroinvertebrates	Aquatic Life	
108	IA 02-IOW-630	Coralville Reservoir	Chlorophyll-a	Primary Contact Recreation	X

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
109	IA 02-IOW-630	Coralville Reservoir	*Escherichia coli (E. coli)*	Primary Contact Recreation	
110	IA 02-IOW-630	Coralville Reservoir	Turbidity	Primary Contact Recreation	
111	IA 02-ICD-605	Cottonwood Drain	Biological Integrity	Aquatic Life	
112	IA 01-VOL-303	Cox Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
113	IA 01-VOL-304	Cox Creek	Benthic Macroinvertebrates	Aquatic Life	
114	IA 01-TRK-210	Crane Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
115	IA 01-TRK-211	Crane Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
116	IA 01-TRK-212	Crane Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
117	IA 01-TRK-213	Crane Creek	Benthic Macroinvertebrates	Aquatic Life	
118	IA 06-LSR-1583	Crawford Creek Impoundment	pH	Aquatic Life, Primary Contact Recreation	X
119	IA 01-NEM-86	Crow Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
120	IA 06-LSR-1634	Dan Greene Slough	Dissolved Oxygen	Aquatic Life	
121	IA 06-LSR-1634	Dan Greene Slough	pH	Aquatic Life	
122	IA 06-FLO-1562	Deep Creek	Biological Integrity	Aquatic Life	
123	IA 02-CED-591	Deer Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
124	IA 04-LDM-1002	Des Moines River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
125	IA 04-LDM-1003	Des Moines River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
126	IA 04-LDM-1004	Des Moines River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
127	IA 04-LDM-1004	Des Moines River	Fish Kill(s)	Aquatic Life	
128	IA 04-LDM-1005	Des Moines River	Fish Kill(s)	Aquatic Life	
129	IA 04-LDM-1010	Des Moines River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
130	IA 04-LDM-1010	Des Moines River	Fish Kill(s)	Aquatic Life	
131	IA 04-UDM-1215	Des Moines River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
132	IA 04-UDM-1216	Des Moines River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
133	IA 04-UDM-1217	Des Moines River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
134	IA 04-UDM-1219	Des Moines River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
135	IA 04-UDM-1220	Des Moines River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
136	IA 04-UDM-1220	Des Moines River	Mercury - Fish Consumption Advisory	Human Health	
137	IA 04-UDM-1221	Des Moines River	Mercury - Fish Consumption Advisory	Human Health	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
138	IA 04-UDM-1222	Des Moines River	Mercury - Fish Consumption Advisory	Human Health	
139	IA 04-UDM-1223	Des Moines River	Mercury - Fish Consumption Advisory	Human Health	
140	**IA 04-LDM-1011**	**Des Moines River**	**Nitrate plus nitrite as N**	**Drinking Water**	**X**
141	**IA 04-UDM-1211**	**Des Moines River**	**Nitrate plus nitrite as N**	**Drinking Water**	**X**
142	IA 06-WEM-1716	Desoto Bend	Chlorophyll-a	Primary Contact Recreation	
143	IA 06-WEM-1716	Desoto Bend	Turbidity	Primary Contact Recreation	
144	IA 03-NSK-861	Diamond Lake	Chlorophyll-a	Aquatic Life	
145	IA 06-LSR-1672	Diamond Lake	pH	Aquatic Life	
146	IA 01-TRK-202	Dibble Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
147	IA 05-CHA-1336	Dick Creek	Biological Integrity	Aquatic Life	
148	IA 01-YEL-438	Dousman Creek	Dissolved Oxygen	Aquatic Life	
149	IA 04-UDM-6494	Drainage Ditch 97	Fish Kill(s)	Aquatic Life	
150	IA 01-TRK-2002	Dry Branch	*Escherichia coli (E. coli)*	Primary Contact Recreation	
151	IA 02-CED-507	Dry Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
152	IA 06-BSR-1878	Dry Creek	Biological Integrity	Aquatic Life	
153	IA 01-TRK-189	Dry Mill Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
154	IA 01-UIA-272	Dry Run	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
155	IA 01-UIA-272	Dry Run	Thermal Modifications	Aquatic Life	
156	IA 02-CED-554	Dry Run	Biological Integrity	Aquatic Life	
157	IA 02-CED-554	Dry Run	*Escherichia coli (E. coli)*	Primary Contact Recreation	
158	IA 02-CED-6293	Dry Run	*Escherichia coli (E. coli)*	Primary Contact Recreation	
159	IA 02-CED-2063	Dry Run (North Branch)	*Escherichia coli (E. coli)*	Primary Contact Recreation	
160	IA 02-CED-2062	Dry Run (South Branch)	*Escherichia coli (E. coli)*	Primary Contact Recreation	
161	IA 01-UIA-6552	Dry Run Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
162	IA 01-UIA-254	Duck Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
163	IA 02-IOW-779	Eagle Lake	pH	Aquatic Life	X
164	IA 02-CED-1880	East Branch Blue Creek	Fish Kill(s)	Aquatic Life	
165	IA 02-IOW-769	East Branch Iowa River	Benthic Macroinvertebrates	Aquatic Life	
166	IA 05-NSH-1823	East Branch West Nishnabotna River	Biological Integrity	Aquatic Life	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
167	IA 05-GRA-1350	East Fork Medicine Creek	Biological Integrity	Aquatic Life	
168	IA 04-LDM-1065	East Lake (Osceola)	Dissolved Oxygen	Aquatic Life	X
169	IA 05-NSH-1414	East Nishnabotna River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
170	IA 05-NSH-1415	East Nishnabotna River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
171	IA 05-NOD-1391	East Nodaway River	Biological Integrity	Aquatic Life	
172	IA 05-NOD-1391	East Nodaway River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
173	IA 05-NOD-1392	East Nodaway River	Fish Bioassessments	Aquatic Life	
174	IA 06-LSR-1652	East Okoboji Lake	Mercury	Human Health	X
175	IA 01-UIA-279	East Pine Creek	Benthic Macroinvertebrates	Aquatic Life	
176	IA 02-IOW-777	East Twin Lake	Chlorophyll-a	Aquatic Life	X
177	IA 02-IOW-777	East Twin Lake	Total Suspended Solids (TSS)	Aquatic Life	X
178	IA 02-IOW-773	Eldred Sherwood Lake	*Escherichia coli (E. coli)*	Primary Contact Recreation	
179	IA 01-TRK-175	Elk Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
180	IA 06-LSR-1629	Elk Lake	Chlorophyll-a	Aquatic Life	
181	IA 06-LSR-1629	Elk Lake	pH	Aquatic Life	
182	IA 06-LSR-1629	Elk Lake	Total Suspended Solids (TSS)	Aquatic Life	
183	IA 02-IOW-657	Elm Lake	Chlorophyll-a	Aquatic Life	
184	IA 02-IOW-657	Elm Lake	Total Suspended Solids (TSS)	Aquatic Life	
185	IA 04-LDM-1057	English Creek	Benthic Macroinvertebrates	Aquatic Life	
186	IA 02-WIN-840	Fin And Feather Lake	pH	Aquatic Life	X
187	IA 05-CHA-1341	Fivemile Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
188	IA 02-SHL-788	Flood Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
189	IA 06-FLO-1552	Floyd River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
190	IA 06-FLO-1552	Floyd River	Selenium	Aquatic Life	
191	IA 06-FLO-1553	Floyd River	Fish Bioassessments	Aquatic Life	
192	IA 06-FLO-1554	Floyd River	Biological Integrity	Aquatic Life	
193	IA 06-FLO-6266	Floyd River	Fish Kill(s)	Aquatic Life	
194	IA 04-UDM-1752	Fourmile Lake	Dissolved Oxygen	Aquatic Life	
195	IA 04-FOX-994	Fox River	Fish Bioassessments	Aquatic Life	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
196	IA 04-FOX-995	Fox River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
197	IA 04-FOX-995	Fox River	Fish Bioassessments	Aquatic Life	
198	IA 01-UIA-248	French Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
199	IA 03-SKU-896	Geode Lake	Mercury - Fish Consumption Advisory	Human Health	
200	IA 02-CED-465	George Wyth Lake	Secchi Disk Transparency	Primary Contact Recreation	
201	IA 04-LDM-6311	Grade Lake	Mercury - Fish Consumption Advisory	Human Health	
202	IA 01-TRK-127	Granger Creek	*Escherichia coli (E. coli)*	Secondary Contact Recreation	
203	IA 01-VOL-322	Grannis Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
204	IA 04-RAC-1118	Grays Lake	Chlorophyll-a	Primary Contact Recreation	X
205	IA 04-RAC-1118	Grays Lake	Secchi Disk Transparency	Primary Contact Recreation	
206	IA 05-PLA-1472	Green Valley Lake	pH	Aquatic Life, Primary Contact Recreation, Drinking Water	X
207	IA 06-LSR-1625	Gustafson Lake	*Escherichia coli (E. coli)*	Primary Contact Recreation	
208	IA 06-LSR-1625	Gustafson Lake	Secchi Disk Transparency	Primary Contact Recreation	
209	IA 04-RAC-6537	Halburn Creek	Fish Kill(s)	Aquatic Life	
210	IA 03-NSK-862	Hawthorn Lake	Chlorophyll-a	Primary Contact Recreation	
211	IA 01-YEL-447	Hecker Creek	Chloride	Aquatic Life	
212	IA 01-YEL-447	Hecker Creek	Fish Bioassessments	Aquatic Life	
213	IA 01-VOL-307	Hewett Creek	Benthic Macroinvertebrates	Aquatic Life	
214	IA 01-VOL-307	Hewett Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
215	IA 01-VOL-307	Hewett Creek	Thermal Modifications	Aquatic Life	
216	IA 01-NMQ-110	Hickory Creek	Biological Integrity	Aquatic Life	
217	IA 03-SSK-950	Hickory Grove Lake	Secchi Disk Transparency	Primary Contact Recreation	
218	IA 04-UDM-1304	High Lake	Chlorophyll-a	Aquatic Life	
219	IA 04-UDM-1304	High Lake	Total Suspended Solids (TSS)	Aquatic Life	
220	IA 02-CED-552	Holland Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
221	IA 02-CED-6491	Holland Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
222	IA 01-MAQ-53	Honey Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
223	IA 01-MAQ-6560	Honey Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
224	IA 05-CHA-1337	Honey Creek	*Escherichia coli (E. coli)*	Secondary Contact Recreation	
225	IA 05-CHA-2019	Honey Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
226	IA 01-TRK-191	Howard Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
227	IA 02-CED-504	Indian Creek	Benthic Macroinvertebrates	Aquatic Life	
228	IA 02-CED-504	Indian Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
229	IA 02-CED-505	Indian Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
230	IA 03-SSK-943	Indian Creek	Benthic Macroinvertebrates	Aquatic Life	
231	IA 03-SSK-943	Indian Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
232	IA 05-NSH-1425	Indian Creek	Biological Integrity	Aquatic Life	
233	IA 06-BSR-1531	Indian Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
234	IA 02-IOW-677	Iowa Lake	*Escherichia coli (E. coli)*	Primary Contact Recreation	
235	IA 02-IOW-677	Iowa Lake	Mercury - Fish Consumption Advisory	Human Health	
236	IA 04-BLU-969	Iowa Lake	Ammonia	Aquatic Life	X
237	IA 04-BLU-969	Iowa Lake	Chlorophyll-a	Aquatic Life	X
238	IA 04-BLU-969	Iowa Lake	pH	Aquatic Life, Drinking Water	X
239	IA 04-BLU-969	Iowa Lake	Total Suspended Solids (TSS)	Aquatic Life	X
240	IA 02-IOW-624	Iowa River	Benthic Macroinvertebrates	Aquatic Life	
241	IA 02-IOW-633	Iowa River	Mercury - Fish Consumption Advisory	Human Health	
242	IA 02-IOW-634	Iowa River	Mercury - Fish Consumption Advisory	Human Health	
243	IA 02-IOW-635	Iowa River	Mercury - Fish Consumption Advisory	Human Health	
244	IA 02-IOW-638	Iowa River	Mercury - Fish Consumption Advisory	Human Health	
245	IA 02-IOW-639	Iowa River	*Escherichia coli (E. coli)*	Primary Contact Recreation	X
246	IA 02-IOW-639	Iowa River	Mercury - Fish Consumption Advisory	Human Health	
247	IA 02-IOW-640	Iowa River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
248	IA 02-IOW-640	Iowa River	Mercury - Fish Consumption Advisory	Human Health	
249	IA 02-IOW-641	Iowa River	Mercury - Fish Consumption Advisory	Human Health	
250	IA 02-IOW-642	Iowa River	Mercury - Fish Consumption Advisory	Human Health	
251	IA 02-IOW-644	Iowa River	Mercury - Fish Consumption Advisory	Human Health	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
252	IA 02-IOW-645	Iowa River	Mercury - Fish Consumption Advisory	Human Health	
253	IA 02-IOW-646	Iowa River	Mercury - Fish Consumption Advisory	Human Health	
254	IA 02-IOW-647	Iowa River	Mercury - Fish Consumption Advisory	Human Health	
255	IA 02-IOW-648	Iowa River	Mercury - Fish Consumption Advisory	Human Health	
256	**IA 02-IOW-628**	**Iowa River**	**Nitrate as N**	**Drinking Water**	**X**
257	**IA 02-IOW-628**	**Iowa River**	**Nitrate plus nitrite as N**	**Drinking Water**	**X**
258	IA 01-UIA-247	Irish Hollow Creek	Benthic Macroinvertebrates	Aquatic Life	
259	IA 05-CHA-1332	Jackson Creek	Biological Integrity	Aquatic Life	
260	IA 05-CHA-1332	Jackson Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
261	IA 01-NMQ-105	Johns Creek	Benthic Macroinvertebrates	Aquatic Life	
262	IA 06-LSR-1605	Johns Creek	Fish Bioassessments	Aquatic Life	
263	IA 05-CHA-1330	Jordan Creek	Biological Integrity	Aquatic Life	
264	IA 05-CHA-1330	Jordan Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
265	IA 06-WED-1686	Keg Creek	Fish Bioassessments	Aquatic Life	
266	IA 06-WED-1687	Keg Creek	Biological Integrity	Aquatic Life	
267	IA 04-LDM-1080	Lake Ahquabi	Secchi Disk Transparency	Primary Contact Recreation	
268	IA 05-NSH-1435	Lake Anita	Secchi Disk Transparency	Primary Contact Recreation	X
269	IA 03-SKU-924	Lake Darling	*Escherichia coli (E. coli)*	Primary Contact Recreation	
270	IA 01-WPS-356	Lake Hendricks	Chlorophyll-a	Primary Contact Recreation	
271	IA 03-SSK-930	Lake Keomah	Mercury - Fish Consumption Advisory	Human Health	
272	IA 06-WEM-1711	Lake Manawa	*Escherichia coli (E. coli)*	Primary Contact Recreation	X
273	IA 06-WEM-1711	Lake Manawa	Turbidity	Primary Contact Recreation	
274	IA 04-LDM-1016	Lake Miami	Mercury - Fish Consumption Advisory	Human Health	
275	IA 06-BSR-1532	Lake Pahoja	*Escherichia coli (E. coli)*	Primary Contact Recreation	
276	IA 04-LDM-1035	Lake Wapello	Mercury - Fish Consumption Advisory	Human Health	
277	IA 02-CED-524	Lime Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
278	IA 02-CED-525	Lime Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
279	IA 01-MAQ-54	Lindsey Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
280	IA 02-IOW-705	Little Bear Creek	Biological Integrity	Aquatic Life	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
281	IA 02-CED-574	Little Cedar River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
282	IA 04-RAC-1176	Little Clear Lake	Dissolved Oxygen	Aquatic Life	X
283	IA 04-RAC-1176	Little Clear Lake	pH	Aquatic Life	X
284	IA 04-UDM-6542	Little Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
285	IA 01-TRK-131	Little Maquoketa River	Benthic Macroinvertebrates	Aquatic Life	
286	IA 05-GRA-1357	Little River	Fish Bioassessments	Aquatic Life	
287	IA 05-GRA-1358	Little River Watershed Lake	*Escherichia coli (E. coli)*	Primary Contact Recreation	
288	IA 05-GRA-1358	Little River Watershed Lake	Mercury - Fish Consumption Advisory	Human Health	
289	IA 06-BSR-1798	Little Rock River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
290	IA 06-BSR-1799	Little Rock River	Benthic Macroinvertebrates	Aquatic Life	
291	IA 06-BSR-1800	Little Rock River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
292	IA 06-LSR-1564	Little Sioux River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
293	IA 06-LSR-1565	Little Sioux River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
294	IA 06-LSR-1570	Little Sioux River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
295	IA 06-LSR-1573	Little Sioux River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
296	IA 06-LSR-1577	Little Sioux River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
297	IA 06-LSR-1578	Little Sioux River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
298	IA 06-LSR-1578	Little Sioux River	Fish Bioassessments	Aquatic Life	
299	IA 06-LSR-1579	Little Sioux River	Benthic Macroinvertebrates	Aquatic Life	
300	IA 06-LSR-1659	Little Spirit Lake	Ammonia	Aquatic Life	X
301	IA 01-TRK-160	Little Turkey River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
302	IA 01-TRK-162	Little Turkey River	Benthic Macroinvertebrates	Aquatic Life	
303	IA 01-TRK-162	Little Turkey River	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
304	IA 01-TRK-163	Little Turkey River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
305	IA 01-TRK-207	Little Turkey River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
306	IA 01-TRK-208	Little Turkey River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
307	IA 01-TRK-209	Little Turkey River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
308	IA 01-VOL-328	Little Volga River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
309	IA 01-VOL-328	Little Volga River	Mercury - Fish Consumption Advisory	Human Health	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
310	IA 04-UDM-1278	Lizard Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
311	IA 04-UDM-1281	Lizard Lake	pH	Aquatic Life	X
312	IA 05-GRA-1381	Loch Ayr	Secchi Disk Transparency	Primary Contact Recreation	
313	IA 03-SSK-2007	Long Dick Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
314	IA 03-SSK-960	Long Dick Creek	Benthic Macroinvertebrates	Aquatic Life	
315	IA 05-GRA-1376	Lotts Creek	Fish Bioassessments	Aquatic Life	
316	IA 02-IOW-758	Lower Pine Lake	*Escherichia coli (E. coli)*	Primary Contact Recreation	
317	IA 01-YEL-446	Ludlow Creek	Biological Integrity	Aquatic Life	
318	IA 01-TRK-123	Lux Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
319	IA 04-UDM-1260	Lyons Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
320	IA 01-NEM-81	Mad Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
321	IA 06-BOY-1505	Manteno Park Pond	Dissolved Oxygen	Aquatic Life	
322	IA 06-LSR-1581	Maple River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
323	IA 06-LSR-1581	Maple River	Selenium	Aquatic Life	
324	IA 01-MAQ-13	Maquoketa River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
325	IA 01-MAQ-14	Maquoketa River	Benthic Macroinvertebrates	Aquatic Life	
326	IA 01-MAQ-15	Maquoketa River	Benthic Macroinvertebrates	Aquatic Life	
327	IA 01-MAQ-15	Maquoketa River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
328	IA 01-MAQ-16	Maquoketa River	Benthic Macroinvertebrates	Aquatic Life	
329	IA 01-MAQ-16	Maquoketa River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
330	IA 01-MAQ-19	Maquoketa River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
331	IA 04-RAC-1160	Marrowbone Creek	Benthic Macroinvertebrates	Aquatic Life	
332	IA 04-RAC-1160	Marrowbone Creek	Dissolved Oxygen	Aquatic Life	
333	IA 05-PLA-1470	McKinley Lake	Chlorophyll-a	Primary Contact Recreation	
334	IA 05-PLA-1470	McKinley Lake	PCBS - Fish Consumption Advisory	Human Health	
335	IA 05-PLA-1470	McKinley Lake	Secchi Disk Transparency	Primary Contact Recreation	
336	IA 02-CED-508	McLoud Run	*Escherichia coli (E. coli)*	Primary Contact Recreation	
337	IA 02-CED-508	McLoud Run	Fish Kill(s)	Aquatic Life	
338	IA 04-LDM-1089	Meadow Lake	Secchi Disk Transparency	Primary Contact Recreation	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
339	IA 02-CED-463	Meyers Lake	Chlorophyll-a	Primary Contact Recreation	
340	IA 01-TRK-128	Middle Fork Catfish Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
341	IA 01-TRK-6487	Middle Fork Catfish Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
342	IA 05-GRA-1378	Middle Fork Grand River	Biological Integrity	Aquatic Life	
343	IA 05-GRA-1378	Middle Fork Grand River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
344	IA 01-TRK-138	Middle Fork Little Maquoketa River	Benthic Macroinvertebrates	Aquatic Life	
345	IA 05-NOD-1400	Middle Nodaway River	Biological Integrity	Aquatic Life	
346	IA 04-LDM-1083	Middle River	Biological Integrity	Aquatic Life	
347	IA 04-LDM-1083	Middle River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
348	IA 06-LSR-1667	Milford Creek	Benthic Macroinvertebrates	Aquatic Life	
349	IA 06-LSR-1615	Mill Creek	Biological Integrity	Aquatic Life	
350	IA 04-LDM-1045	Miller Creek	Fish Kill(s)	Aquatic Life	
351	IA 01-YEL-427	Miners Creek	Benthic Macroinvertebrates	Aquatic Life	
352	IA 01-VOL-314	Mink Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
353	IA 02-CED-6490	Minnehaha Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
354	IA 01-UIA-283	Minor Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
355	IA 01-NEM-61	Mississippi River	Fecal Coliform	Primary Contact Recreation	
356	IA 01-NEM-62	Mississippi River	Fecal Coliform	Primary Contact Recreation	
357	IA 01-NEM-62	Mississippi River	PCBS - Fish Consumption Advisory	Human Health	
358	IA 01-NEM-63	Mississippi River	Fecal Coliform	Primary Contact Recreation	
359	IA 06-WEM-1707	Missouri River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
360	IA 06-WEM-1708	Missouri River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
361	IA 06-WEM-1709	Missouri River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
362	IA 06-WEM-1715	Missouri River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
363	IA 06-WEM-1720	Missouri River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
364	IA 06-WEM-1721	Missouri River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
365	IA 06-WEM-1722	Missouri River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
366	IA 03-SSK-6508	Montgomery Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
367	IA 02-CED-513	Morgan Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
368	IA 05-NOD-1404	Mormon Trail Lake	Mercury - Fish Consumption Advisory	Human Health	
369	IA 04-LDM-1071	Morris Lake	Dissolved Oxygen	Aquatic Life	X
370	IA 02-IOW-658	Morse Lake	Chlorophyll-a	Aquatic Life	
371	IA 02-IOW-658	Morse Lake	pH	Aquatic Life	X
372	IA 02-IOW-658	Morse Lake	Total Suspended Solids (TSS)	Aquatic Life	
373	IA 02-CED-6489	Mosquito Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
374	IA 06-WED-1699	Mosquito Creek	Biological Integrity	Aquatic Life	
375	IA 06-WED-1701	Mosquito Creek	Biological Integrity	Aquatic Life	
376	IA 04-LDM-1048	Muchakinock Creek	Biological Integrity	Aquatic Life	
377	IA 04-LDM-1049	Muchakinock Creek	Fish Bioassessments	Aquatic Life	
378	IA 02-CED-519	Mud Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
379	IA 05-NSH-1457	Mud Creek	Fish Bioassessments	Aquatic Life	
380	IA 06-BSR-1546	Mud Creek	Biological Integrity	Aquatic Life	
381	IA 06-BSR-1546	Mud Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
382	IA 06-BSR-1546	Mud Creek	pH	Aquatic Life, Primary Contact Recreation	
383	IA 05-GRA-1361	Nine Eagles Lake	Mercury - Fish Consumption Advisory	Human Health	
384	IA 05-CHA-1335	Ninemile Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
385	IA 05-CHA-1335	Ninemile Creek	Fish Bioassessments	Aquatic Life	
386	IA 05-NSH-1412	Nishnabotna River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
387	IA 05-NOD-1401	Nodaway Lake	Secchi Disk Transparency	Primary Contact Recreation	
388	IA 05-NOD-1389	Nodaway River (aka West Nodaway R.)	*Escherichia coli (E. coli)*	Primary Contact Recreation	
389	IA 04-LDM-1988	North Banner Lake	Mercury - Fish Consumption Advisory	Human Health	
390	IA 01-UIA-255	North Bear Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
391	IA 01-TRK-223	North Branch Turkey River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
392	IA 01-VOL-330	North Branch Volga River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
393	IA 01-VOL-330	North Branch Volga River	Mercury - Fish Consumption Advisory	Human Health	
394	IA 04-FAB-992	North Fabius River	Fish Bioassessments	Aquatic Life	
395	IA 02-CED-551	North Fork Black Hawk Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
396	IA 01-TRK-129	North Fork Catfish Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
397	IA 01-TRK-6486	North Fork Catfish Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
398	IA 01-NMQ-88	North Fork Maquoketa River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
399	IA 01-NMQ-88	North Fork Maquoketa River	Fish Kill(s)	Aquatic Life	
400	IA 01-NMQ-90	North Fork Maquoketa River	Benthic Macroinvertebrates	Aquatic Life	
401	IA 01-NMQ-90	North Fork Maquoketa River	Biological Integrity	Aquatic Life	
402	IA 01-NMQ-90	North Fork Maquoketa River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
403	IA 01-YEL-2005	North Fork Yellow River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
404	IA 01-YEL-448	North Fork Yellow River	Dissolved Oxygen	Aquatic Life	
405	IA 04-RAC-1139	North Raccoon River	Benthic Macroinvertebrates	Aquatic Life	
406	IA 04-RAC-1139	North Raccoon River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
407	IA 04-LDM-1097	North River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
408	IA 04-LDM-1097	North River	Fish Bioassessments	Aquatic Life	
409	IA 03-NSK-853	North Skunk River	Chromium	Aquatic Life	
410	IA 03-NSK-853	North Skunk River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
411	IA 03-NSK-854	North Skunk River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
412	IA 03-NSK-859	North Skunk River	Biological Integrity	Aquatic Life	
413	IA 01-TRK-205	Nutting Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
414	IA 06-LSR-1638	Ocheyedan River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
415	IA 02-IOW-685	Old Mans Creek	Benthic Macroinvertebrates	Aquatic Life	
416	IA 01-TRK-198	Otter Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
417	IA 01-TRK-198	Otter Creek	Thermal Modifications	Aquatic Life	
418	IA 02-CED-514	Otter Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
419	IA 02-CED-594	Otter Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
420	IA 06-BOY-1518	Otter Creek	Benthic Macroinvertebrates	Aquatic Life	X
421	IA 02-IOW-720	Otter Creek Lake	Secchi Disk Transparency	Primary Contact Recreation	X
422	IA 01-UIA-257	Paint Creek (aka Pine Creek)	*Escherichia coli (E. coli)*	Primary Contact Recreation	
423	IA 02-SHL-790	Palmer Creek	Fish Kill(s)	Aquatic Life	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
424	IA 01-UIA-259	Patterson Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
425	IA 01-TRK-168	Pecks Creek	Benthic Macroinvertebrates	Aquatic Life	
426	IA 01-TRK-168	Pecks Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
427	IA 06-BSR-1527	Perry Creek	Biological Integrity	Aquatic Life	
428	IA 02-CED-485	Pike Run	Benthic Macroinvertebrates	Aquatic Life	
429	IA 02-CED-486	Pike Run	Biological Integrity	Aquatic Life	
430	IA 01-TRK-179	Pine Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
431	IA 01-TRK-6638	Pine Creek	*Escherichia coli (E. coli)*	Secondary Contact Recreation	
432	IA 01-UIA-278	Pine Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
433	IA 06-LSR-1649	Pleasant Lake	Chlorophyll-a	Aquatic Life	
434	IA 06-LSR-1649	Pleasant Lake	pH	Aquatic Life	
435	IA 06-LSR-1649	Pleasant Lake	Total Suspended Solids (TSS)	Aquatic Life	
436	IA 01-MAQ-46	Plum Creek	Benthic Macroinvertebrates	Aquatic Life	
437	IA 01-MAQ-46	Plum Creek	Fish Kill(s)	Aquatic Life	
438	IA 01-MAQ-47	Plum Creek	Fish Kill(s)	Aquatic Life	
439	IA 06-WED-1683	Plum Creek	Biological Integrity	Aquatic Life	
440	IA 01-TRK-165	Point Hollow Creek (aka White Pine Creek)	Benthic Macroinvertebrates	Aquatic Life	
441	IA 01-TRK-165	Point Hollow Creek (aka White Pine Creek)	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
442	IA 03-SKM-888	Pollmiller Park Lake	Mercury - Fish Consumption Advisory	Human Health	
443	IA 02-IOW-6396	Prairie Creek	Wastewater	General Use	
444	IA 03-SSK-6598	Prairie Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
445	IA 04-UDM-1796	Prairie Creek	Biological Integrity	Aquatic Life	
446	IA 04-UDM-6545	Prairie Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
447	IA 06-LSR-1647	Prairie Lake	pH	Aquatic Life	
448	**IA 04-RAC-1116**	**Raccoon River**	**Nitrate plus nitrite as N**	**Drinking Water**	**X**

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
449	IA 02-IOW-1899	Ralston Creek	Hydrocarbons - Priority Organics	General Use	
450	IA 04-LDM-1073	Red Haw Lake	Mercury - Fish Consumption Advisory	Human Health	
451	IA 04-LDM-1017	Red Rock Reservoir	*Escherichia coli (E. coli)*	Primary Contact Recreation	
452	IA 04-LDM-1017	Red Rock Reservoir	Turbidity	Primary Contact Recreation	
453	IA 02-IOW-6412	Rhine Creek	Fish Kill(s)	Aquatic Life	
454	IA 02-WIN-832	Rice Lake	Chlorophyll-a	Aquatic Life	X
455	IA 02-WIN-832	Rice Lake	pH	Aquatic Life, Primary Contact Recreation	
456	IA 01-TRK-186	Roberts Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
457	IA 01-TRK-188	Roberts Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
458	IA 04-LDM-1019	Roberts Creek Lake	Turbidity	Primary Contact Recreation	
459	IA 01-NEM-6373	Robin Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
460	IA 01-MAQ-2	Rock Creek	Dissolved Oxygen	Aquatic Life	
461	IA 02-CED-3026	Rock Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
462	IA 02-CED-585	Rock Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
463	IA 02-CED-586	Rock Creek	Benthic Macroinvertebrates	Aquatic Life	X
464	IA 02-CED-586	Rock Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
465	IA 02-CED-587	Rock Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
466	IA 02-CED-588	Rock Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
467	IA 06-BSR-1534	Rock River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
468	IA 06-BSR-1537	Rock River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
469	IA 06-BSR-1538	Rock River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
470	IA 06-BSR-1538	Rock River	pH	Aquatic Life, Primary Contact Recreation	
471	IA 02-CED-526	Rodgers Park Lake	Chlorophyll-a	Primary Contact Recreation	
472	IA 02-IOW-6403	Roff Creek	Wastewater	General Use	
473	IA 01-TRK-218	Rogers Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
474	IA 01-MAQ-6561	Routherford Branch	*Escherichia coli (E. coli)*	Primary Contact Recreation	
475	IA 05-PLA-2064	Sands Timber Lake (aka Blockton Reservoir)	Turbidity	Aquatic Life	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
476	IA 03-SKU-902	Saunders Branch	Ammonia	Aquatic Life	
477	IA 03-SKU-902	Saunders Branch	Coal Tar	Aquatic Life	
478	IA 03-SKU-902	Saunders Branch	Dissolved Oxygen	Aquatic Life	
479	IA 04-UDM-1213	Saylorville Reservoir	Chlorophyll-a	Primary Contact Recreation	X
480	IA 04-UDM-1213	Saylorville Reservoir	Secchi Disk Transparency	Primary Contact Recreation	
481	IA 02-SHL-782	Shell Rock River	Mercury - Fish Consumption Advisory	Human Health	
482	IA 02-SHL-783	Shell Rock River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
483	IA 02-SHL-783	Shell Rock River	Mercury - Fish Consumption Advisory	Human Health	
484	IA 02-SHL-784	Shell Rock River	Mercury - Fish Consumption Advisory	Human Health	
485	IA 02-SHL-787	Shell Rock River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
486	IA 01-MAQ-1	Shrickers Slough	Chlorophyll-a	Aquatic Life	
487	IA 01-MAQ-1	Shrickers Slough	Secchi Disk Transparency	Aquatic Life	
488	IA 01-UIA-6596	Siewers Spring	*Escherichia coli (E. coli)*	Primary Contact Recreation	
489	IA 01-MAQ-44	Silver Creek	Benthic Macroinvertebrates	Aquatic Life	
490	IA 01-TRK-192	Silver Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
491	IA 01-TRK-2057	Silver Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
492	IA 01-UIA-250	Silver Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
493	IA 01-UIA-282	Silver Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
494	IA 05-NSH-1454	Silver Creek	Fish Bioassessments	Aquatic Life	
495	IA 02-SHL-796	Silver Lake	pH	Aquatic Life, Primary Contact Recreation	
496	IA 06-BSR-1533	Sixmile Creek	Biological Integrity	Aquatic Life	
497	IA 06-BSR-1533	Sixmile Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
498	IA 04-UDM-1250	Skillet Creek	Biological Integrity	Aquatic Life	
499	IA 03-SKU-889	Skunk River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
500	IA 02-CED-6565	Slough Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
501	IA 06-WEM-1734	Snyder Bend Lake	Chlorophyll-a	Primary Contact Recreation	
502	IA 06-WEM-1734	Snyder Bend Lake	Turbidity	Primary Contact Recreation	
503	IA 04-LDM-1033	Soap Creek	Fish Bioassessments	Aquatic Life	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
504	IA 06-SOL-1673	Soldier River	Benthic Macroinvertebrates	Aquatic Life	
505	IA 06-SOL-1673	Soldier River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
506	IA 06-SOL-1673	Soldier River	Selenium	Aquatic Life	
507	IA 04-LDM-1085	South Banner Lake	Mercury - Fish Consumption Advisory	Human Health	
508	IA 01-UIA-252	South Bear Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
509	IA 03-SKU-6271	South Big Creek	Fish Kill(s)	Aquatic Life	
510	IA 01-TRK-171	South Cedar Creek (aka Cedar Creek)	*Escherichia coli (E. coli)*	Primary Contact Recreation	
511	IA 01-TRK-130	South Fork Catfish Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
512	IA 05-CHA-1327	South Fork Chariton River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
513	IA 05-CHA-1327	South Fork Chariton River	Fish Bioassessments	Aquatic Life	
514	IA 05-CHA-1328	South Fork Chariton River	Biological Integrity	Aquatic Life	
515	IA 05-CHA-1328	South Fork Chariton River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
516	IA 02-IOW-748	South Fork Iowa River	Benthic Macroinvertebrates	Aquatic Life	
517	IA 02-IOW-748	South Fork Iowa River	Dissolved Oxygen	Aquatic Life	
518	IA 02-IOW-751	South Fork Iowa River	Benthic Macroinvertebrates	Aquatic Life	
519	IA 02-IOW-752	South Fork Iowa River	Benthic Macroinvertebrates	Aquatic Life	
520	IA 02-IOW-752	South Fork Iowa River	Dissolved Oxygen	Aquatic Life	X
521	IA 04-RAC-1181	South Raccoon River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
522	IA 04-LDM-1074	South River	Benthic Macroinvertebrates	Aquatic Life	
523	IA 04-LDM-1074	South River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
524	IA 03-SSK-926	South Skunk River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
525	IA 03-SSK-927	South Skunk River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
526	IA 03-SSK-931	South Skunk River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
527	IA 03-SSK-934	South Skunk River	Biological Integrity	Aquatic Life	
528	IA 03-SSK-934	South Skunk River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
529	IA 03-SSK-935	South Skunk River	Benthic Macroinvertebrates	Aquatic Life	
530	**IA 03-SSK-927**	**South Skunk River**	**Nitrate plus nitrite as N**	**Drinking Water**	**X**
531	IA 04-RAC-1168	South Twin Lake	Chlorophyll-a	Aquatic Life	
532	IA 04-RAC-1168	South Twin Lake	Turbidity	Aquatic Life	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
533	IA 01-NEM-87	Spencer Creek	Fish Kill(s)	Aquatic Life	
534	IA 02-CED-589	Spring Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
535	IA 02-CED-6566	Spring Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
536	IA 06-LSR-1569	Spring Lake	Secchi Disk Transparency	Primary Contact Recreation	X
537	IA 01-UIA-288	Staff Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
538	IA 01-NEM-6370	Stafford Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
539	IA 01-TRK-178	Steeles Branch	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
540	IA 01-TRK-6568	Steeles Branch	*Escherichia coli (E. coli)*	Primary Contact Recreation	
541	IA 06-LSR-1644	Stony Creek	Biological Integrity	Aquatic Life	
542	IA 04-RAC-1143	Storm Lake	*Escherichia coli (E. coli)*	Primary Contact Recreation	
543	IA 02-CED-489	Sugar Creek	Benthic Macroinvertebrates	Aquatic Life	
544	IA 04-RAC-1174	Sunken Grove Lake	pH	Aquatic Life	X
545	IA 01-YEL-439	Suttle Creek	Benthic Macroinvertebrates	Aquatic Life	
546	IA 01-YEL-439	Suttle Creek	Dissolved Oxygen	Aquatic Life	
547	IA 04-UDM-1232	Swan Lake	Chlorophyll-a	Aquatic Life	
548	IA 04-UDM-1232	Swan Lake	pH	Aquatic Life	
549	IA 04-UDM-1232	Swan Lake	Sedimentation/Siltation	Aquatic Life	
550	IA 01-UIA-274	Ten Mile Creek	Benthic Macroinvertebrates	Aquatic Life	
551	IA 01-UIA-274	Ten Mile Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
552	IA 01-TRK-121	Tetes Des Morts Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
553	IA 01-TRK-122	Tetes Des Morts Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
554	IA 05-GRA-1351	Thompson River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
555	IA 05-NSH-1436	Troublesome Creek	Fish Bioassessments	Aquatic Life	
556	IA 01-UIA-269	Trout Creek (aka Trout Run)	Benthic Macroinvertebrates	Aquatic Life	
557	IA 01-UIA-269	Trout Creek (aka Trout Run)	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
558	IA 01-UIA-266	Trout River	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
559	IA 04-UDM-6543	Turkey Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
560	IA 01-TRK-148	Turkey River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
561	IA 01-TRK-148	Turkey River	Mercury - Fish Consumption Advisory	Human Health	
562	IA 01-TRK-149	Turkey River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
563	IA 01-TRK-152	Turkey River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
564	IA 01-TRK-153	Turkey River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
565	IA 01-TRK-154	Turkey River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
566	IA 01-TRK-156	Turkey River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
567	IA 02-CED-590	Turtle Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
568	IA 05-GRA-1367	Twelve Mile Creek Lake	Chlorophyll-a	Primary Contact Recreation	X
569	IA 05-GRA-1367	Twelve Mile Creek Lake	Secchi Disk Transparency	Primary Contact Recreation	
570	IA 04-UDM-1231	Twelve-mile Lake	Chlorophyll-a	Aquatic Life	
571	IA 04-UDM-1231	Twelve-mile Lake	Total Suspended Solids (TSS)	Aquatic Life	
572	IA 01-UIA-273	Twin Springs Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
573	IA 01-VOL-325	Unnamed Creek (aka Volga Lake Outlet)	*Escherichia coli (E. coli)*	Primary Contact Recreation	
574	IA 04-LDM-1046	Unnamed Creek (near Eddyville)	Fish Kill(s)	Aquatic Life	
575	IA 01-WPS-394	Unnamed Creek (near Hazleton)	Fish Kill(s)	Aquatic Life	
576	IA 01-TRK-1885	Unnamed Tributary to Bass Creek	Fish Kill(s)	Aquatic Life	
577	IA 04-UDM-6541	Unnamed Tributary to Big Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
578	IA 04-UDM-6544	Unnamed Tributary to Big Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
579	IA 03-SKU-6410	Unnamed tributary to Brush Creek	Wastewater	General Use	
580	IA 01-TRK-6408	Unnamed tributary to Catfish Creek	Wastewater	General Use	
581	IA 03-SKU-6573	Unnamed Tributary to Cedar Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
582	IA 03-SKU-6581	Unnamed Tributary to Cedar Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
583	IA 03-SKU-6585	Unnamed Tributary to Cedar Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
584	IA 02-CED-6594	Unnamed Tributary to Cedar River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
585	IA 02-CED-6294	Unnamed Tributary to Dry Run	*Escherichia coli (E. coli)*	Primary Contact Recreation	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
586	IA 01-UIA-6557	Unnamed Tributary to Dry Run Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
587	IA 01-UIA-6558	Unnamed Tributary to Dry Run Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
588	IA 01-UIA-6600	Unnamed Tributary to Dry Run Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
589	IA 03-SSK-6599	Unnamed Tributary to Ioway Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
590	IA 03-SKU-6591	Unnamed Tributary to Lake Geode	*Escherichia coli (E. coli)*	Primary Contact Recreation	
591	IA 01-WPS-6457	Unnamed Tributary to Lake Hendricks	*Escherichia coli (E. coli)*	Primary Contact Recreation	
592	IA 02-CED-6432	Unnamed Tributary to Lime Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
593	IA 01-TRK-6612	Unnamed Tributary to Little Maquoketa River	Fish Kill(s)	Aquatic Life	
594	IA 06-BSR-1934	Unnamed Tributary to Little Rock River	Fish Kill(s)	Aquatic Life	
595	IA 06-LSR-6342	Unnamed Tributary to Little Sioux River	Fish Kill(s)	Aquatic Life	
596	IA 01-MAQ-1963	Unnamed Tributary to Maquoketa River	Fish Kill(s)	Aquatic Life	
597	IA 04-RAC-2036	Unnamed Tributary to Marrowbone Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
598	IA 02-IOW-6588	Unnamed Tributary to Muddy Creek	Dissolved Oxygen	Aquatic Life	
599	IA 01-YEL-3066	Unnamed Tributary to North Fork Yellow River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
600	IA 01-TRK-6620	Unnamed Tributary to Otter Creek	Fish Kill(s)	Aquatic Life	
601	IA 02-IOW-3063	Unnamed Tributary to Price Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
602	IA 02-IOW-3064	Unnamed Tributary to Price Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
603	IA 02-IOW-6300	Unnamed Tributary to Ralston Creek	Fish Kill(s)	Aquatic Life	
604	IA 05-CHA-1915	Unnamed Tributary to Rathbun Reservoir	Fish Kill(s)	Aquatic Life	
605	IA 02-CED-3027	Unnamed Tributary to Rock Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
606	IA 01-UIA-6569	Unnamed Tributary to Silver Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
607	IA 02-IOW-6401	Unnamed tributary to Snyder Creek	Wastewater	General Use	
608	IA 02-CED-6567	Unnamed Tributary to Spring Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
609	IA 01-TRK-6580	Unnamed Tributary to Tetes Des Morts Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
610	IA 01-TRK-6589	Unnamed Tributary to Tetes Des Morts Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
611	IA 01-TRK-6460	Unnamed Tributary to Turkey River	*Escherichia coli (E. coli)*	Secondary Contact Recreation	
612	IA 01-UIA-6554	Unnamed Tributary to Unnamed Tributary to Dry Run Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
613	IA 01-UIA-6555	Unnamed Tributary to Unnamed Tributary to Dry Run Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
614	IA 01-UIA-6556	Unnamed Tributary to Unnamed Tributary to Dry Run Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
615	IA 01-YEL-6575	Unnamed Tributary to Unnamed Tributary to Yellow River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
616	IA 01-UIA-6597	Unnamed Tributary to Upper Iowa River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
617	IA 01-TRK-2058	Unnamed Tributary to UT to Silver Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
618	IA 01-UIA-6570	Unnamed Tributary to Waterloo Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
619	IA 02-CED-6262	Unnamed Tributary to West Branch Wapsinonoc Creek (aka Hoover Creek)	*Escherichia coli (E. coli)*	Primary Contact Recreation	
620	IA 02-WFC-2075	Unnamed Tributary to West Fork Cedar River	Fish Kill(s)	Aquatic Life	
621	IA 01-YEL-2059	Unnamed Tributary to Yellow River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
622	IA 01-YEL-6574	Unnamed Tributary to Yellow River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
623	IA 01-YEL-6582	Unnamed Tributary to Yellow River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
624	IA 01-UIA-236	Upper Iowa River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
625	IA 01-UIA-236	Upper Iowa River	Mercury - Fish Consumption Advisory	Human Health	
626	IA 01-UIA-237	Upper Iowa River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
627	IA 01-UIA-237	Upper Iowa River	Mercury - Fish Consumption Advisory	Human Health	
628	IA 01-UIA-238	Upper Iowa River	Mercury - Fish Consumption Advisory	Human Health	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
629	IA 01-UIA-239	Upper Iowa River	Benthic Macroinvertebrates	Aquatic Life	
630	IA 01-UIA-239	Upper Iowa River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
631	IA 01-UIA-239	Upper Iowa River	Mercury - Fish Consumption Advisory	Human Health	
632	IA 01-UIA-240	Upper Iowa River	Mercury - Fish Consumption Advisory	Human Health	
633	IA 01-UIA-241	Upper Iowa River	Benthic Macroinvertebrates	Aquatic Life	
634	IA 01-UIA-241	Upper Iowa River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
635	IA 01-UIA-241	Upper Iowa River	Mercury - Fish Consumption Advisory	Human Health	
636	IA 01-UIA-242	Upper Iowa River	Mercury - Fish Consumption Advisory	Human Health	
637	IA 01-UIA-243	Upper Iowa River	Mercury - Fish Consumption Advisory	Human Health	
638	IA 01-UIA-244	Upper Iowa River	Mercury - Fish Consumption Advisory	Human Health	
639	IA 01-UIA-245	Upper Iowa River	Mercury - Fish Consumption Advisory	Human Health	
640	IA 01-VOL-291	Volga River	Mercury - Fish Consumption Advisory	Human Health	
641	IA 01-VOL-294	Volga River	Mercury - Fish Consumption Advisory	Human Health	
642	IA 01-VOL-295	Volga River	Mercury - Fish Consumption Advisory	Human Health	
643	IA 01-VOL-296	Volga River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
644	IA 05-CHA-1329	Walker Branch	*Escherichia coli (E. coli)*	Primary Contact Recreation	
645	IA 01-WPS-372	Walnut Creek	Fish Kill(s)	Aquatic Life	
646	IA 02-IOW-708	Walnut Creek	Benthic Macroinvertebrates	Aquatic Life	
647	IA 02-IOW-709	Walnut Creek	Fish Bioassessments	Aquatic Life	
648	IA 03-SSK-953	Walnut Creek	Fish Bioassessments	Aquatic Life	
649	IA 04-RAC-1120	Walnut Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
650	IA 01-WPS-332	Wapsipinicon River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
651	IA 01-WPS-333	Wapsipinicon River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
652	IA 01-WPS-335	Wapsipinicon River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
653	IA 01-WPS-336	Wapsipinicon River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
654	IA 01-WPS-340	Wapsipinicon River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
655	IA 01-WPS-342	Wapsipinicon River	Mercury - Fish Consumption Advisory	Human Health	
656	IA 01-WPS-343	Wapsipinicon River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
657	IA 01-WPS-343	Wapsipinicon River	Mercury - Fish Consumption Advisory	Human Health	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
658	IA 01-WPS-354	Wapsipinicon River	Biological Integrity	Aquatic Life	
659	IA 01-WPS-354	Wapsipinicon River	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
660	IA 01-WPS-354	Wapsipinicon River	Fish Kill(s)	Aquatic Life	
661	IA 01-WPS-6416	Wapsipinicon River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
662	IA 01-UIA-253	Waterloo Creek	Benthic Macroinvertebrates	Aquatic Life	
663	IA 01-UIA-253	Waterloo Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation, Secondary Contact Recreation	
664	IA 06-LSR-1620	Waterman Creek	Benthic Macroinvertebrates	Aquatic Life	X
665	IA 06-LSR-1620	Waterman Creek	Dissolved Oxygen	Aquatic Life	X
666	IA 05-GRA-1356	Weldon River	Biological Integrity	Aquatic Life	
667	IA 04-RAC-1151	West Branch Buttrick Creek	Benthic Macroinvertebrates	Aquatic Life	
668	IA 06-FLO-1558	West Branch Floyd River	Fish Bioassessments	Aquatic Life	
669	IA 05-PLA-1480	West Branch One Hundred And Two River	Biological Integrity	Aquatic Life	
670	IA 02-CED-6264	West Branch Wapsinonoc	*Escherichia coli (E. coli)*	Primary Contact Recreation	
671	IA 02-WFC-801	West Fork Cedar River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
672	IA 06-LSR-1598	West Fork Little Sioux River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
673	IA 06-LSR-1598	West Fork Little Sioux River	Selenium	Aquatic Life	
674	IA 06-LSR-1599	West Fork Little Sioux River	Biological Integrity	Aquatic Life	
675	IA 05-CHA-1333	West Jackson Creek	Benthic Macroinvertebrates	Aquatic Life	
676	IA 04-LDM-1082	West Lake (Osceola)	Dissolved Oxygen	Aquatic Life	X
677	IA 05-NSH-1441	West Nishnabotna River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
678	IA 05-NSH-1446	West Nishnabotna River	Biological Integrity	Aquatic Life	
679	IA 05-NSH-1447	West Nishnabotna River	Fish Kill(s)	Aquatic Life	
680	IA 06-LSR-2066	West Okoboji Lake - Emersons Bay	*Escherichia coli (E. coli)*	Primary Contact Recreation	
681	IA 04-UDM-1270	West Otter Creek	Fish Kill(s)	Aquatic Life	
682	IA 04-UDM-1754	West Swan Lake	Chlorophyll-a	Aquatic Life	
683	IA 04-UDM-1754	West Swan Lake	Total Suspended Solids (TSS)	Aquatic Life	
684	IA 05-TAR-1497	West Tarkio Creek	Biological Integrity	Aquatic Life	

Number	Water Body ID	Water Body Name	Impairment Cause	Impaired Use	New Listing
685	IA 02-IOW-778	West Twin Lake	Chlorophyll-a	Aquatic Life	
686	IA 02-IOW-778	West Twin Lake	pH	Aquatic Life	
687	IA 02-IOW-778	West Twin Lake	Total Suspended Solids (TSS)	Aquatic Life	
688	IA 04-LDM-1059	White Breast Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
689	IA 04-LDM-1825	White Breast Creek	Biological Integrity	Aquatic Life	
690	IA 03-SSK-929	White Oak Conservation Area Lake	Chlorophyll-a	Primary Contact Recreation	X
691	IA 03-SSK-929	White Oak Conservation Area Lake	Secchi Disk Transparency	Primary Contact Recreation	
692	IA 01-NMQ-103	Whitewater Creek	Benthic Macroinvertebrates	Aquatic Life	
693	IA 01-NMQ-103	Whitewater Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
694	IA 02-CED-6593	Willow Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
695	IA 06-FLO-1829	Willow Creek	Fish Kill(s)	Aquatic Life	
696	IA 06-LSR-1611	Willow Creek	Benthic Macroinvertebrates	Aquatic Life	
697	IA 06-LSR-1626	Willow Creek	Benthic Macroinvertebrates	Aquatic Life	
698	IA 06-LSR-1626	Willow Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
699	IA 06-LSR-6299	Willow Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
700	IA 05-PLA-1477	Wilson Park Lake	Secchi Disk Transparency	Primary Contact Recreation	
701	IA 02-WIN-826	Winnebago River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
702	IA 02-WIN-827	Winnebago River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
703	IA 02-WIN-831	Winnebago River	Biological Integrity	Aquatic Life	
704	IA 02-CED-530	Wolf Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
705	IA 05-CHA-1339	Wolf Creek	Biological Integrity	Aquatic Life	
706	IA 05-CHA-1339	Wolf Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
707	IA 01-TRK-219	Wonder Creek	*Escherichia coli (E. coli)*	Primary Contact Recreation	
708	IA 01-YEL-2060	Yellow River	*Escherichia coli (E. coli)*	Primary Contact Recreation	
709	IA 01-YEL-435	Yellow River	Fish Bioassessments	Aquatic Life	
710	IA 01-YEL-436	Yellow River	Fish Kill(s)	Aquatic Life	
711	IA 01-YEL-437	Yellow River	Fish Bioassessments	Aquatic Life	
712	IA 06-BOY-1514	Yellow Smoke Park Lake	Mercury - Fish Consumption Advisory	Human Health	

Table 3. The EPA-approved 2024 CWA Section 303(d) list delistings and rationales.

Definitions: TMDL - Total Maximum Daily Load and EPA - U.S. Environmental Protection Agency.

Number	Water Body Number	Water Body Name	Impairment Cause	Impaired Use	2024 Delisting Rationale
1	IA 06-LSR-2048	Ashton Creek	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
2	IA 01-NMQ-1886	Bear Creek	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
3	IA 01-YEL-440	Bear Creek	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
4	IA 02-IOW-702	Bear Creek	Biological Integrity	Aquatic Life	New data indicates water quality standard is attained.
5	IA 04-LDM-1947	Bear Creek	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
6	IA 02-IOW-753	Beaver Creek	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
7	IA 02-WFC-818	Beeds Lake	Chlorophyll-a	Primary Contact Recreation	New data indicates water quality standard is attained.
8	IA 02-IOW-656	Big Wall Lake	pH	Aquatic Life	New data indicates water quality standard is attained.
9	IA 05-CHA-1338	Bob White Lake	*Escherichia coli (E. coli)*	Primary Contact Recreation	New data indicates water quality standard is attained.
10	IA 04-UDM-1255	Briggs Woods Lake	pH	Aquatic Life, Primary Contact Recreation	New data indicates water quality standard is attained.
11	IA 04-RAC-1208	Brushy Creek	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
12	IA 04-UDM-1276	Brushy Creek Lake	*Escherichia coli (E. coli)*	Primary Contact Recreation	TMDL approved by EPA (4a).
13	IA 06-LSR-1663	Center Lake	Chlorophyll-a	Primary Contact Recreation	New data indicates water quality standard is attained.
14	IA 01-MAQ-38	Central Park Lake	Chlorophyll-a	Primary Contact Recreation	New data indicates water quality standard is attained.
15	IA 01-TRK-134	Cloie Branch	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
16	IA 04-UDM-1214	Des Moines River	*Escherichia coli (E. coli)*	Primary Contact Recreation	New data indicates water quality standard is attained.

Number	Water Body Number	Water Body Name	Impairment Cause	Impaired Use	2024 Delisting Rationale
17	IA 02-IOW-6551	Drainage Ditch 81	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
18	IA 06-BSR-1878	Dry Creek	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
19	IA 01-WPS-380	East Branch Buffalo Creek	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
20	IA 04-RAC-1161	Elk Run	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
21	IA 02-IOW-657	Elm Lake	pH	Aquatic Life	New data indicates water quality standard is attained.
22	IA 02-IOW-704	Hannen Lake	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
23	IA 01-YEL-441	Hickory Creek	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
24	IA 05-NSH-1435	Lake Anita	Cyanobacteria Hepatoxic Microcystins	Primary Contact Recreation	Listing error. Impairment is for chlorophyll-a.
25	IA 05-NSH-1435	Lake Anita	Chlorophyll-a	Primary Contact Recreation	TMDL approved by EPA and new data indicates water quality standard is attained.
26	IA 01-WPS-356	Lake Hendricks	pH	Aquatic Life, Primary Contact Recreation	New data indicates water quality standard is attained.
27	IA 03-SSK-930	Lake Keomah	*Escherichia coli (E. coli)*	Primary Contact Recreation	TMDL approved by EPA (4a).
28	IA 02-IOW-629	Lake Macbride	Chlorophyll-a	Primary Contact Recreation	New data indicates water quality standard is attained.
29	IA 02-IOW-629	Lake Macbride	*Escherichia coli (E. coli)*	Primary Contact Recreation	New data indicates water quality standard is attained.
30	IA 06-WEM-1711	Lake Manawa	Chlorophyll-a	Primary Contact Recreation	New data indicates water quality standard is attained.
31	IA 04-LDM-1016	Lake Miami	pH	Aquatic Life, Primary Contact Recreation	New data indicates water quality standard is attained.
32	IA 05-PLA-1476	Lake Of Three Fires	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.

Number	Water Body Number	Water Body Name	Impairment Cause	Impaired Use	2024 Delisting Rationale
33	IA 05-PLA-1476	Lake Of Three Fires	pH	Aquatic Life, Primary Contact Recreation, Drinking Water	New data indicates water quality standard is attained.
34	IA 03-SSK-1918	Lake Petocka (formerly Lake Patoka)	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
35	IA 06-LSR-1564	Little Sioux River	Selenium	Aquatic Life	New data indicates water quality standard is attained.
36	IA 04-UDM-1281	Lizard Lake	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
37	IA 03-SSK-2007	Long Dick Creek	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
38	IA 06-BOY-1505	Manteno Park Pond	Chlorophyll-a	Primary Contact Recreation	New data indicates water quality standard is attained.
39	IA 06-LSR-1656	Marble Lake	pH	Aquatic Life	New data indicates water quality standard is attained.
40	IA 01-NEM-61	Mississippi River	Aluminum	Aquatic Life	New data indicates water quality standard is attained.
41	IA 01-NEM-62	Mississippi River	Aluminum	Aquatic Life	New data indicates water quality standard is attained.
42	IA 01-NEM-64	Mississippi River	Aluminum	Aquatic Life	New data indicates water quality standard is attained.
43	IA 01-NEM-70	Mississippi River	Aluminum	Aquatic Life	New data indicates water quality standard is attained.
44	IA 01-NEM-75	Mississippi River	Aluminum	Aquatic Life	New data indicates water quality standard is attained.
45	IA 02-ICM-619	Mississippi River	Aluminum	Aquatic Life	New data indicates water quality standard is attained.
46	IA 03-SKM-884	Mississippi River	Aluminum	Aquatic Life	New data indicates water quality standard is attained.
47	IA 06-BSR-1546	Mud Creek	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
48	IA 01-YEL-444	Norfolk Creek	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.

Number	Water Body Number	Water Body Name	Impairment Cause	Impaired Use	2024 Delisting Rationale
49	IA 06-BSR-1545	Otter Creek	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
50	IA 04-RAC-1180	Pickerel Lake	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
51	IA 01-MAQ-3040	Plum Creek	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
52	IA 04-RAC-1883	Poor Farm Creek	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
53	IA 05-NSH-1462	Prairie Rose Lake	*Escherichia coli (E. coli)*	Primary Contact Recreation	TMDL approved by EPA (4a).
54	IA 04-RAC-1159	Purgatory Creek	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
55	IA 04-LDM-1019	Roberts Creek Lake	Chlorophyll-a	Primary Contact Recreation	New data indicates water quality standard is attained.
56	IA 04-LDM-1019	Roberts Creek Lake	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
57	IA 03-NSK-865	Rock Creek Lake	*Escherichia coli (E. coli)*	Primary Contact Recreation	New data indicates water quality standard is attained.
58	IA 06-BSR-1534	Rock River	Selenium	Aquatic Life	New data indicates water quality standard is attained.
59	IA 01-TRK-192	Silver Creek	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
60	IA 04-UDM-1229	Silver Lake	pH	Aquatic Life, Primary Contact Recreation	New data indicates water quality standard is attained.
61	IA 06-LSR-1669	Silver Lake	Secchi Disk Transparency	Primary Contact Recreation	New data indicates water quality standard is attained.
62	IA 02-IOW-750	South Fork Iowa River	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
63	IA 04-RAC-1183	South Raccoon River	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
64	IA 04-RAC-1196	Springbrook Lake	*Escherichia coli (E. coli)*	Primary Contact Recreation	New data indicates water quality standard is attained.

Number	Water Body Number	Water Body Name	Impairment Cause	Impaired Use	2024 Delisting Rationale
65	IA 05-PLA-1471	Summit Lake	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
66	IA 04-RAC-1199	Swan Lake	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
67	IA 05-GRA-1367	Twelve Mile Creek Lake	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
68	IA 02-CED-6567	Unnamed Tributary to Spring Creek	Ammonia	Aquatic Life	New data indicates water quality standard is attained.
69	IA 02-CED-6567	Unnamed Tributary to Spring Creek	Dissolved Oxygen	Aquatic Life	New data indicates water quality standard is attained.
70	IA 01-TRK-6562	Unnamed Tributary to Turkey River	pH	Aquatic Life, Primary Contact Recreation	New data indicates water quality standard is attained.
71	IA 01-YEL-6575	Unnamed Tributary to Unnamed Tributary to Yellow River	pH	Aquatic Life, Primary Contact Recreation	New data indicates water quality standard is attained.
72	IA 01-TRK-2058	Unnamed Tributary to UT to Silver Creek	Ammonia	Aquatic Life	New data indicates water quality standard is attained.
73	IA 01-YEL-2059	Unnamed Tributary to Yellow River	pH	Aquatic Life, Primary Contact Recreation	New data indicates water quality standard is attained.
74	IA 01-YEL-6574	Unnamed Tributary to Yellow River	pH	Aquatic Life, Primary Contact Recreation	New data indicates water quality standard is attained.
75	IA 01-YEL-6582	Unnamed Tributary to Yellow River	pH	Aquatic Life, Primary Contact Recreation	New data indicates water quality standard is attained.
76	IA 01-NEM-6498	Upper Brown Lake	pH	Aquatic Life	New data indicates water quality standard is attained.
77	IA 06-FLO-1558	West Branch Floyd River	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
78	IA 01-WPS-6618	West Branch Pine Creek	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
79	IA 06-LSR-1834	West Fork Little Sioux River	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
80	IA 01-NMQ-103	Whitewater Creek	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.

Number	Water Body Number	Water Body Name	Impairment Cause	Impaired Use	2024 Delisting Rationale
81	IA 01-NMQ-104	Whitewater Creek	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
82	IA 03-SSK-6626	Wolf Creek	Fish Kill(s)	Aquatic Life	New data indicates recovery of fish community from pollutant-caused fish kill.
83	IA 01-YEL-2060	Yellow River	pH	Aquatic Life, Primary Contact Recreation	New data indicates water quality standard is attained.
84	IA 01-YEL-437	Yellow River	pH	Aquatic Life, Primary Contact Recreation	New data indicates water quality standard is attained.