



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
REGION 6  
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DALLAS, TEXAS 75270

May 15, 2020

Robert E. Blanz, Ph.D., P.E., Associate Director  
Office of Water Quality  
Arkansas Division of Environmental Quality  
5301 Northshore Drive  
North Little Rock, AR 72118-5317

RE: Arkansas's 2018 Integrated Water Quality Monitoring and Assessment Report

Dr. Blanz:

The U.S. Environmental Protection Agency (EPA) has reviewed the 2018 State of Arkansas Clean Water Act (CWA) § 303(d)/§ 305(b) Integrated Water Quality Monitoring and Assessment Report, which contains Arkansas's Section 303(d) list of water quality limited segments, transmitted February 27, 2020. EPA is taking action to approve all of the waterbodies identified by Arkansas as impaired on the Section 303(d) list.

In accordance with 40 C.F.R. § 130.7(b)(5), states are required to "assemble and evaluate all existing and readily available water quality-related data to develop the list" required by Section 303(d) of the CWA and 40 C.F.R. § 130.7(b)(1). EPA concludes that Arkansas has met the requirements of 40 C.F.R. §130.7(b) with regard to all of the waterbody-pollutant combinations listed by the State, identified in Enclosure 1. Therefore, EPA approves the State's decision to list these waters.

While EPA is approving all impairments identified by the State of Arkansas on the Section 303(d) list, EPA is at this time taking no action and requesting additional information from Arkansas regarding the development and application of water quality standards on the State's waterbodies subject to minerals Ecoregional Reference values as to those pollutants. As discussed with you on April 28, 2020, EPA appreciates the ongoing work being done by Arkansas Division of Environmental Quality (ADEQ) to update water quality standards pertaining to minerals, and ADEQ's expressed commitment to continue working to address minerals water quality standards. EPA remains ready to provide support to the State in these efforts to assure achievement of the State's water quality goals and CWA requirements.

In addition, EPA is taking no action at this time and requesting additional information from Arkansas on a number of waterbody/pollutant combinations for which the State's evaluation of data and information or application of water quality standards and assessment methodology is unclear. EPA requests additional information from the State regarding the impairment status of Lake Poinsette for turbidity, Lake Greenlee for turbidity, and Cox Creek Lake for turbidity. EPA is also requesting clarification from the State regarding the appropriate application of water quality standards and assessment methodology to assess South Fork Spring River for dissolved oxygen and Lake Ouachita for mercury (Enclosure 1).

EPA appreciates ADEQ's effort to develop the 2018 Integrated Water Quality Monitoring and Assessment Report. If you have any questions or concerns, please feel free to contact me directly at (214) 665-7107, or your staff may contact Richard Wooster, Chief Water Quality Protection Section at (214) 665-6473.

Sincerely,

*Charles Maguire*

Charles W. Maguire  
Director  
Water Division

Enclosure

cc: Becky W. Keogh, Arkansas Department of Energy and Environment Secretary

Review of Arkansas's 2018  
Section 303(d) Waterbody List

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## **I. Introduction**

The Environmental Protection Agency Region 6 (EPA) received the State of Arkansas's 2018 Clean Water Act (CWA) Section 303(d) list of impaired waters from the Arkansas Division of Environmental Quality (ADEQ) on February 27, 2020. The EPA also received Arkansas's 2018 Water Quality Integrated Report with the same submittal. Based on our review of the State's CWA Section 303(d) water body list ("Section 303(d) list") and available data, the EPA is approving Arkansas's 2018 list with further action pending. The purpose of this review document is to describe the rationale for the EPA's approval.

In December 2017, the EPA issued guidance for integrating the development and submission of 2018 Section 305(b) water quality reports and Section 303(d) lists of impaired waters. This guidance document, and previous EPA guidance, recommended that states develop an Integrated Report of the quality of waters by placing all waters into one of five assessment categories. By following this guidance, Category 5 of the Integrated Report is the State's Section 303(d) list. The EPA's action in review and approval of the State's Integrated Reports is limited to waterbodies included in Category 5 that comprises the State's Section 303(d) lists.

The EPA reviewed the assessment methodology used by the State in developing the Section 303(d) list and the State's description of the data and information considered. The EPA's review of Arkansas's 2018 Section 303(d) list is based on the EPA's analysis of whether the State reasonably considered existing and readily available water quality-related data and information and reasonably identified waters required to be listed.

For all CWA purposes, the 2018 Section 303(d) list the EPA is approving is comprised of 175 assessment units (254 waterbody / pollutant combinations) and constitutes the applicable list of impaired waters in the State of Arkansas.

## **II. Statutory and Regulatory Background**

### **A. Identification of Water Quality Limited Segments (WQLSs) for Inclusion on Section 303(d) list**

Section 303(d)(1) of the CWA directs states to identify those waters within its jurisdiction for which effluent limitations required by Section 301(b)(1)(A) and (B) are not stringent enough to implement any applicable water quality standard, and to establish a priority ranking for such waters, taking into account the severity of the pollution and the uses to be made of such waters. The Section 303(d) listing requirement applies to waters impaired by point and/or nonpoint sources, pursuant to the EPA's long-standing interpretation of Section 303(d).

The EPA regulations implementing Section 303(d) require states to identify water quality limited segments (WQLSs) that need TMDLs (See 40 C.F.R. § 130.7(b)). WQLSs are defined in regulation as segments “where it is known that water quality does not meet applicable water quality standards, and/or is not expected to meet applicable water quality standards, even after the application of the technology-based effluent limitations required by sections 301(b) and 306 of the Act” (40 C.F.R. § 130.2(j)). Thus, states do not need to list waters where the following controls are adequate to implement applicable standards: (1) technology-based effluent limitations required by the CWA; (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 C.F.R. §130.7(b)(1).

## **B. Consideration of Existing and Readily Available Water Quality Related Data and Information**

In developing Section 303(d) lists, states are required to assemble and evaluate all existing and readily available water quality-related data and information, including, at a minimum, consideration of existing and readily available data and information about the following categories of waters: (1) waters identified as 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 nonattainment of applicable standards; (3) waters for which water quality problems have been reported by governmental agencies, members of the public, or academic institutions; and (4) waters identified as impaired or threatened in any Section 319 nonpoint assessment submitted to the EPA (40 C.F.R. § 130.7(b)(5)). In addition to these minimum categories, states are required to consider any other data and information that is existing and readily available.

The EPA's 1991 Guidance for Water Quality-Based Decisions describes categories of water quality-related data and information that may be existing and readily available (see Guidance for Water Quality- Based Decisions: The TMDL Process, EPA Office of Water, April 1991). While states are required to evaluate all existing and readily available water quality-related data and information, states may, if they provide a reasonable technical rationale, decide not to rely on particular data or information in determining whether to list particular waters.

In addition to requiring states to assemble and evaluate all existing and readily available water quality-related data and information, the EPA regulations at 40 C.F.R. §130.7(b)(6) require states to include, as part of the submission to the EPA, documentation to support decisions excluding particular data and information and decisions to list or not list waters. Such documentation needs to include, at a minimum, the following information: (1) a description of the methodology used to develop the list; (2) a description of the data and information used to identify waters; (3) a rationale for any decision not to use any existing and readily available data and information 40 C.F.R. § 130.7(b)(5), and (4) any other reasonable information requested by the Region.

### **C. Priority Ranking**

The EPA regulations also codify and interpret the requirement in Section 303(d)(1)(A) of the CWA that states establish a priority ranking for listed waters. The regulations at 40 C.F.R. § 130.7(b)(4) require states to prioritize waters on the Section 303(d) lists for TMDL development, and also to identify those WQLSs targeted for TMDL development in the next two years. In prioritizing and targeting waters, states must, at a minimum, take into account the severity of the pollution and the uses to be made of such waters (CWA Section 303(d)(1)(A)). As long as these factors are taken into account, the CWA provides that states establish priorities. States may consider other factors relevant to prioritizing waters for TMDL development, including immediate programmatic needs such as wasteload allocations for permits, vulnerability of particular waters as aquatic habitats, recreational, economic, and aesthetic importance of particular waters, degree of public interest and support, and state or national policies and priorities (see 57 Fed. Reg. 33040, 33045 (July 24, 1992), and the EPA's 1991 Guidance).

### **D. Applicable Water Quality Standards**

For purposes of identifying waters for the Section 303(d) list, the terms “water quality standard applicable to such waters” and “applicable water quality standards” refer to those water quality standards established under Section 303 of the Act. On April 27, 2000, the EPA promulgated a rule under which the “applicable standard” for Clean Water Act purposes depends on when the relevant States or authorized Tribes promulgated that standard. Standards that States or authorized Tribes have promulgated before May 30, 2000 are effective upon promulgation by the States or authorized Tribes. Standards that States or authorized Tribes promulgated on or after May 30, 2000 become effective only upon EPA approval (40 C.F.R § 131.21(c)). The EPA interprets CWA Section 303(d) to require the EPA establishment or approval of section 303(d) lists only for impairments of waters with Federally-approved water quality standards.

### **E. Public Participation**

The process for identifying WQLS requires the involvement of the general public and is commonly referred to as the public participation process. The public participation process is intended to foster public awareness and open processes of government decision making (See 40 CFR § 25.1(a)). At a minimum, the public participation process must provide, encourage and assist the participation of the public or segments of the public which may have a particular interest in a given program or decision (See 40 CFR § 25.3(a) and § 25.4(b)(5)). The public notification must be provided far enough in advance of agency action to allow time for public response which in general should not be less than 30 days (See 40 CFR § 25.4(c)). The state's public participation process is to be clearly described in the state continuing planning process (See 40 CFR § 130.7(a)).

### III. Analysis of Arkansas's Submission

#### A. Background

In reviewing Arkansas's submittals, the EPA first reviewed the methodology used by the State to develop its 2018 Section 303(d) list in light of Arkansas's approved water quality standards, and then reviewed the actual lists of waters. EPA reviewed the State's 2018 assessment methodology transmitted to EPA by the Arkansas Division of Environmental Quality (ADEQ) in November 2017, which later was included with the State's Integrated Report submission, and has concluded that the waters the State included in the Section 303(d) list were placed on the list in compliance with Section 303(d) of the CWA and 40 C.F.R. § 130.7. The EPA's review is based on an analysis of whether the State reasonably considered existing and readily available water quality-related data and information and reasonably identified waters required to be listed. Arkansas considered data and information pertaining to the categories under 40 C.F.R. § 130.7(b)(5), and the 175 WQLSs proposed by Arkansas are correctly listed per 40 C.F.R. § 130.7(b)(1).

The State's 2018 Integrated Report was made available to the EPA Region 6 electronically on February 27, 2020 and provided by ADEQ on a CD with the hardcopy submittal letter. The Integrated Report from Arkansas consisted of the following portions that are necessary for the Section 303(d) waterbody list:

- **Waterbodies and corresponding pollutants that make up the State's Section 303(d) list**
- **Prioritization of waterbodies for TMDL development**
- **Identification of waters targeted for TMDL development over the next biennium**

The EPA's approval of Arkansas's 2018 Section 303(d) list extends only to the items listed in Table 1.

At this time, the EPA is taking no action and requesting additional information regarding the issues described below with the expectation that these issues will be reconsidered or resolved in the near term. The EPA is in the process of evaluating available data for these water bodies to determine whether an assessment is possible or there is agreement that there are insufficient data for an assessment.

- Lake Poinsette, Lake Greenlee, Cox Creek Lake: Additional information is requested regarding attainment status based on data and information.
- Lake Ouachita: Clarification is requested regarding the appropriate application of water quality standards and assessment methodology to determine attainment status for mercury.
- South Fork Spring River: Clarification is requested regarding the appropriate application of water quality standards and assessment methodology to determine attainment status for dissolved oxygen.

Assessment Unit identifiers and planning segments for the specific waterbodies identified

above are identified in Table 2. Additionally, EPA is taking no action at this time and requesting an update regarding progress made towards the development and application of water quality standards on the State's waterbodies subject to minerals Ecoregional Reference values.

## **B. Identification of Waters and Consideration of Existing and Readily Available Water Quality-Related Data and Information**

The EPA has reviewed Arkansas's description of the data and information considered for identifying waters on the Section 303(d) list. With the exception of the waters noted above on which EPA is taking no action at this time, the EPA concludes that the State properly assembled and evaluated all existing and readily available data and information, including data and information relating to the categories of waters specified in 40 C.F.R. § 130.7(b)(5) and properly identified and listed WQLSs as required by 40 C.F.R. § 130.7(b)(1). In particular, the State relied on information from the 2018 Section 305(b) water quality assessments; assessments performed under the CWA Section 319 non-point source program; and data and information obtained through an extensive process to solicit information from state, federal and citizen sources. The State's evaluation of data and information in each of these categories is described below.

- *Waters identified by the state in its most recent section 305(b) report as "partially meeting" or "not meeting" designated uses or as "threatened" (40 C.F.R. §130.7(b)(5)(i)):* Arkansas produced the 2018 Integrated Reports consistent with the EPA's guidance regarding combined CWA 305(b) reports and 303(d) lists. The EPA concludes that Arkansas made listing decisions using existing and readily available data and information in development of the 2018 Section 303(d) waterbody lists.
- *Waters for which water quality problems have been reported by local, state, or federal agencies; members of the public; or academic institutions (40 C.F.R. §130.7(b)(5)(iii)):* The State solicited data and information in preparation for the 2018 Section 303(d) list. Data and information obtained as a result of this effort were evaluated and considered. The State's submittal identified several entities that contributed data or information and responded to public comments related to assessments for individual waterbodies.
- *Waters identified by the State as impaired or threatened in a nonpoint assessment submitted to the EPA under Section 319 of the CWA or in any updates of the assessment (40 C.F.R. §130.7(b)(5)(iv)):* The State's 2018 Section 303(d) list includes all waters that have data to support nonpoint source pollution impairment. Arkansas's listing approach and methodologies direct CWA Section 319 activities and resources to the highest priorities. Watershed assessments are often conducted for waterbodies that are already listed in order to collect current data to support TMDL development.

Based upon this review, the EPA concludes that with regards to the waters identified in the State's 2018 Section 303(d) list, the State's process for developing the list

substantially meets the requirements of 40 C.F.R. § 130.7(b)(1-6) regarding the consideration of all existing and readily available water quality-related data and information, as well as the requirements of 40 C.F.R. § 130.7(b)(1).

### **C. Waters Removed from the Section 303(d) list**

When a State includes a waterbody/parameter combination on the 303(d) list, it may conclude in a subsequent listing cycle that the waterbody/parameter combination no longer belongs on the 303(d) list. A waterbody/parameter combination need not be included on the 303(d) list when a TMDL is no longer required. The following justifications have been identified as reasons for the removal of a waterbody/parameter combination from a state's 303(d) list:

1. The state has prepared and the EPA has approved a TMDL for the listed water.
2. The original basis for listing the water was incorrect.
3. New data or information indicates that the applicable water quality standard for the water is being met and the designated uses are fully supported.
4. The state has adopted and the EPA has approved a site-specific water quality standard for the water, and the new water quality standard is being met.

The State removed 53 waterbody/parameter combinations based on new data and information indicating that the applicable water quality standard for the water is now being met.

In reviewing the State's 2018 Section 303(d) waterbody list, the EPA carefully considered Arkansas's decision to remove certain waterbody-pollutant combinations from the State's 2016 303(d) list, the justification for those removals, and the methodology used in making those decisions. The EPA concludes that the removal decisions identified in the Integrated Report are reasonable and based on all existing and readily available water quality-related data and information.

### **D. Priority Ranking and Schedule for Development of TMDLS for Listed Waters and Pollutants**

Pursuant to the listing methodologies set out in the State's submittals, Arkansas prioritized WQLSs for TMDL development into three Priority Areas:

1. High priority waters pose the highest risk of affecting public health or welfare or have a substantial impact to aquatic life.
2. Medium priority waters pose moderate risk to public health, welfare or to aquatic life.
3. Low priority waters pose the lowest risk to public health of welfare and have a secondary impact to aquatic life.

The EPA reviewed the State's priority ranking of listed waters for TMDL development, and concluded that the State properly took into account the severity of pollution and the uses to be made of such waters, as required by 40 C.F.R. § 130.7(b)(4), as well as other relevant factors such as imminent human health problems or local support for water



quality improvement. In addition, the EPA concluded that the State listed WQLS targeted for TMDL development in the next two years, as required by 40 C.F.R. § 130.7(d).

#### **IV. Final Recommendation on Arkansas's 2018 Section 303(d) List Submittal**

After careful review of Arkansas's final Section 303(d) list submittal package, the EPA has determined that Arkansas's 2018 Section 303(d) list meets the requirements of Section 303(d) of the Clean Water Act (CWA) and the EPA's implementing regulations with regard to all of the waterbody-pollutant combinations listed by the State. As a result, the EPA approves Arkansas's 2018 Section 303(d) list with further action pending as described above.

#### **V. References**

The following list includes documents that were used directly or indirectly as a basis for the EPA's review and approval of the State's Section 303(d) list. This list is not meant to be an exhaustive list of all records, but to provide the primary documents the Region relied upon in making decisions to approve the State's list.

40 C.F.R. Part 130 Water Quality Planning and Management

40 C.F.R. Part 131 Water Quality Standards

July 29, 2005, Memorandum from Diane Regas, Director, Office of Wetlands, Oceans, and Watersheds, US EPA to Water Division Directors transmitting EPA's "Guidance for 2006 Assessment, Listing and Reporting Requirements Pursuant to Sections 303(d), 305(b) and 314 of the Clean Water Act"

October 12, 2006, Memorandum from Diane Regas, Director, Office of Oceans, Wetlands, and Watersheds entitled *Information Concerning 2008 Clean Water Act Sections 303(d), 305(b), and 314 Integrated Reporting and Listing Decisions*.

May 5, 2009, Memorandum from Suzanne Schwartz, Acting Director, Office of Wetlands, Oceans, and Watersheds, entitled *Information Concerning 2010 Clean Water Act Sections 303(d), 305(b), and 314 Integrated Reporting and Listing Decisions*.

March 21, 2011, Memorandum from Denise Keehner, Director, Office of Wetlands, Oceans, and Watersheds, entitled *Information Concerning 2012 Clean Water Act Sections 303(d), 305(b), and 314 Integrated Reporting and Listing Decisions*.

April 1991, "Guidance for Water Quality-Based Decisions: The TMDL Process," EPA 440/4-91-001.

August 8, 1997, Memorandum from Robert Perciasepe, Assistant Administrator for Water, US EPA, regarding "New Policies for Establishing and Implementing TMDLs."

September, 1997, Guidance from Office of Water, Headquarters, US EPA regarding

“Guidelines for Preparation of the Comprehensive State Water Quality Assessments (305(b) Reports) and Electronic Updates” Supplement, EPA-841-B-97-002B.

August 23, 1999, Federal Register Notice. *Proposed Revisions to the Water Quality Management and Planning Regulations*, 64 FR 46012.

April 27, 2000, Federal Register Notice, *EPA Review and Approval of State and Tribal Water Quality Standards*, 65 FR 24641

**Table 1. State of Arkansas's 2018 § 303(d) List**

Planning Segment	Waterbody Name	Assessment Unit	Parameter	Conclusion
1A	Dorcheat Bayou	AR_11140203_020	Turbidity	Concur
1A	Dorcheat Bayou	AR_11140203_022	Turbidity	Concur
1A	Little Bodcau Creek	AR_11140205_010	Dissolved Oxygen	Concur
1B	Red River	AR_11140106_001	Turbidity	Concur
1B	Red River	AR_11140106_003	Turbidity	Concur
1B	Red River	AR_11140106_005	Turbidity	Concur
1B	Red River	AR_11140106_025	Turbidity	Concur
1B	Red River	AR_11140201_007	Turbidity	Concur
1B	Bois D'Arc Creek	AR_11140201_008	Dissolved Oxygen	Concur
1B	Bois D'Arc Creek	AR_11140201_009	Dissolved Oxygen	Concur
1B	Red River	AR_11140201_011	Turbidity	Concur
1B	Days Creek	AR_11140302_003	Lead	Concur
1C	Little River	AR_11140109_001	Temperature	Concur
1C	Saline River	AR_11140109_014	Dissolved Oxygen	Concur
1C	Cossatot River	AR_11140109_018	Dissolved Oxygen	Concur
1C	Bear Creek	AR_11140109_025	Copper	Concur
1C	Short Creek	AR_11140109_819	pH	Concur
1C	Caney Creek	AR_11140109_921	pH	Concur
1D	Mill Creek	AR_11140108_019	pH	Concur
1D	Barren Creek	AR_11140108_907	pH	Concur
2A	Bayou Macon	AR_08050002_003	Chloride	Concur
2A	Bayou Macon	AR_08050002_006	Chloride	Concur
2B	Bayou Bartholomew	AR_08040205_001	Dissolved Oxygen	Concur
2B	Bayou Bartholomew	AR_08040205_001	Lead	Concur
2B	Bayou Bartholomew	AR_08040205_006	Lead	Concur
2B	Bayou Bartholomew	AR_08040205_013	Dissolved Oxygen	Concur
2B	Bearhouse Creek	AR_08040205_901	Dissolved Oxygen	Concur
2B	Harding Creek	AR_08040205_902	Lead	Concur
2B	Cross Bayou	AR_08040205_905	Dissolved Oxygen	Concur
2B	Chemin-A-Haut Cr.	AR_08040205_907	Dissolved Oxygen	Concur
2B	Overflow Creek	AR_08040205_908	Turbidity	Concur
2B	Overflow Creek	AR_08040205_908	Chloride	Concur
2B	Main Street Ditch	AR_08040205_909	Dissolved Oxygen	Concur
2B	Main Street Ditch	AR_08040205_909	Lead	Concur
2B	Bayou Imbeau	AR_08040205_910	Dissolved Oxygen	Concur
2B	Bayou Imbeau	AR_08040205_910	Pathogens	Concur
2B	Bayou Imbeau	AR_08040205_910	Lead	Concur
2B	Able's Creek	AR_08040205_911	Turbidity	Concur
2C	North Fork Saline River	AR_08040203_011	Dissolved Oxygen	Concur

Planning Segment	Waterbody Name	Assessment Unit	Parameter	Conclusion
2C	Alum Fork Saline River	AR_08040203_014	Dissolved Oxygen	Concur
2C	Alum Fork Saline River	AR_08040203_014	pH	Concur
2C	Alum Fk. Saline River	AR_08040203_018	pH	Concur
2C	Middle Fork Saline River	AR_08040203_019	Dissolved Oxygen	Concur
2C	Cox Creek	AR_08040203_4110	pH	Concur
2C	Saline River	AR_08040203_913	Turbidity	Concur
2C	Lockett Creek	AR_08040203_922	Dissolved Oxygen	Concur
2C	Saline River	AR_08040204_002	Temperature	Concur
2C	Big Creek	AR_08040204_005	pH	Concur
2C	Big Creek	AR_08040204_005	Lead	Concur
2D	Moro Creek	AR_08040201_001	Dissolved Oxygen	Concur
2D	Moro Creek	AR_08040201_001	Turbidity	Concur
2D	Moro Creek	AR_08040201_001	Lead	Concur
2D	Ouachita River	AR_08040201_005	Lead	Concur
2D	Smackover Creek	AR_08040201_006	Dissolved Oxygen	Concur
2D	Smackover Creek	AR_08040201_006	pH	Concur
2D	Smackover Creek	AR_08040201_006	Turbidity	Concur
2D	Smackover Creek	AR_08040201_006	Lead	Concur
2D	Smackover Creek	AR_08040201_007	Dissolved Oxygen	Concur
2D	Smackover Creek	AR_08040201_007	pH	Concur
2D	Smackover Creek	AR_08040201_007	Turbidity	Concur
2D	Smackover Creek	AR_08040201_007	Lead	Concur
2D	Smackover Creek	AR_08040201_406	Dissolved Oxygen	Concur
2D	Smackover Creek	AR_08040201_406	pH	Concur
2D	Smackover Creek	AR_08040201_406	Turbidity	Concur
2D	Smackover Creek	AR_08040201_406	Lead	Concur
2D	ECC Tributary	AR_08040201_606	pH	Concur
2D	ECC Tributary	AR_08040201_606	Copper	Concur
2D	ECC Tributary	AR_08040201_606	Nitrate	Concur
2D	Salt Creek	AR_08040201_806	pH	Concur
2D	Moro Creek	AR_08040201_901	Dissolved Oxygen	Concur
2D	Moro Creek	AR_08040201_901	Lead	Concur
2D	E. Two Bayou	AR_08040201_905	pH	Concur
2D	E. Two Bayou	AR_08040201_905	Pathogens	Concur
2D	Ouachita River	AR_08040202_002	Lead	Concur
2D	Ouachita River	AR_08040202_004	Dissolved Oxygen	Concur
2D	Bayou De L'outre	AR_08040202_006	pH	Concur
2D	Bayou De L'outre	AR_08040202_006	Turbidity	Concur
2D	Bayou De L'outre	AR_08040202_006	Lead	Concur
2D	Bayou De L'outre	AR_08040202_006	Zinc	Concur
2D	Bayou De L'outre	AR_08040202_007	pH	Concur

Planning Segment	Waterbody Name	Assessment Unit	Parameter	Conclusion
2D	Bayou De L'outré	AR_08040202_007	Turbidity	Concur
2D	Bayou De L'outré	AR_08040202_007	Lead	Concur
2D	Bayou De L'outré	AR_08040202_007	Zinc	Concur
2D	Bayou De L'outré	AR_08040202_008	pH	Concur
2D	Bayou De L'outré	AR_08040202_008	Turbidity	Concur
2D	Bayou De L'outré	AR_08040202_008	Lead	Concur
2D	Bayou De L'outré	AR_08040202_008	Zinc	Concur
2D	Bayou De L'outré	AR_08040202_008	Selenium	Concur
2D	Loutré Creek	AR_08040202_909	Chloride	Concur
2D	Loutré Creek	AR_08040202_909	Sulfate	Concur
2D	Loutré Creek	AR_08040202_909	Total Dissolved Solids	Concur
2D	Loutré Creek	AR_08040202_909	Selenium	Concur
2E	Cornie Bayou	AR_08040206_015	pH	Concur
2E	Cornie Bayou	AR_08040206_015	Turbidity	Concur
2E	Cornie Bayou	AR_08040206_015	Lead	Concur
2E	Little Cornie Creek	AR_08040206_016	Lead	Concur
2E	Little Cornie Creek	AR_08040206_716	Lead	Concur
2E	Little Cornie Creek	AR_08040206_816	Lead	Concur
2E	Walker Branch	AR_08040206_916	Lead	Concur
2F	Fiddlers Creek	AR_08040101_032	Dissolved Oxygen	Concur
2F	Fiddlers Creek	AR_08040101_032	pH	Concur
2F	Ouachita River	AR_08040101_033	Dissolved Oxygen	Concur
2F	South Fk. Ouachita River	AR_08040101_043	Dissolved Oxygen	Concur
2F	Prairie Creek	AR_08040101_048	Dissolved Oxygen	Concur
2F	Irons Fork Creek	AR_08040101_838	Dissolved Oxygen	Concur
2F	Irons Fork Creek	AR_08040101_838	pH	Concur
2F	Indian Springs Creek	AR_08040101_902	Dissolved Oxygen	Concur
2F	Indian Springs Creek	AR_08040101_902	Sulfate	Concur
2F	Indian Springs Creek	AR_08040101_902	Total Dissolved Solids	Concur
2F	Irons Fork Creek	AR_08040101_929	pH	Concur
2F	South Fork Caddo	AR_08040102_023	Dissolved Oxygen	Concur
2F	Cove Creek	AR_08040102_976	Dissolved Oxygen	Concur
2F	Cove Creek	AR_08040102_976	pH	Concur
2G	Terre Noir Creek	AR_08040103_002	pH	Concur
2G	Terre Noir Creek	AR_08040103_003	pH	Concur
2G	Terre Rouge Creek	AR_08040103_031	Turbidity	Concur
3A	Arkansas River	AR_08020401_001	Dissolved Oxygen	Concur
3A	Wabbaseka Bayou	AR_08020401_003	Dissolved Oxygen	Concur
3B	Bayou Meto	AR_08020402_001	Dissolved Oxygen	Concur

Planning Segment	Waterbody Name	Assessment Unit	Parameter	Conclusion
3B	Bayou Meto	AR_08020402_003	Dissolved Oxygen	Concur
3B	Bayou Two Prairie	AR_08020402_006	Dissolved Oxygen	Concur
3B	Bayou Meto	AR_08020402_007	Total Dissolved Solids	Concur
3B	Bayou Meto	AR_08020402_007	Priority Organics	Concur
3B	Bayou Two Prairie	AR_08020402_106	Dissolved Oxygen	Concur
3B	Bayou Two Prairie	AR_08020402_206	Dissolved Oxygen	Concur
3B	Bayou Two Prairie	AR_08020402_306	Dissolved Oxygen	Concur
3B	Pickthorne	AR_08020402_4010	Unknown	Concur
3B	Rodgers	AR_08020402_4020	Dissolved Oxygen	Concur
3B	Bayou Two Prairie	AR_08020402_806	Dissolved Oxygen	Concur
3B	Bayou Meto	AR_08020402_907	Dissolved Oxygen	Concur
3C	Fourche Creek	AR_11110207_024	Dissolved Oxygen	Concur
3C	Fourche Creek	AR_11110207_024	Turbidity	Concur
3C	Saracen	AR_11110207_4010	PCB	Concur
3C	White Oak Bayou	AR_11110207_912	Dissolved Oxygen	Concur
3D	E. Fork Cadron Creek	AR_11110205_002	Turbidity	Concur
3D	Cadron Creek	AR_11110205_014	Dissolved Oxygen	Concur
3D	N. Fork Cadron Creek	AR_11110205_015	Dissolved Oxygen	Concur
3E	Fourche LaFave R.	AR_11110206_001	Dissolved Oxygen	Concur
3E	Fourche LaFave R.	AR_11110206_008	Dissolved Oxygen	Concur
3E	Fourche LaFave R.	AR_11110206_008	pH	Concur
3E	Fourche LaFave R.	AR_11110206_008	Temperature	Concur
3E	West Gafford Creek	AR_11110206_012	pH	Concur
3E	S. Fourche LaFave R.	AR_11110206_014	Dissolved Oxygen	Concur
3E	Nimrod - Lower	AR_11110206_4052	Dissolved Oxygen	Concur
3E	Negro Branch	AR_11110206_514	pH	Concur
3E	Turner Creek	AR_11110206_808	pH	Concur
3E	Dry Fork Creek	AR_11110206_914	pH	Concur
3F	W. Fk. Point Remove	AR_11110203_018	pH	Concur
3F	Rock Cypress Creek	AR_11110203_033	Turbidity	Concur
3F	Driver	AR_11110203_4020	pH	Concur
3F	Stone Dam Creek	AR_11110203_904	Dissolved Oxygen	Concur
3F	Trimble Creek	AR_11110203_918	pH	Concur
3F	Whig Creek	AR_11110203_931	Dissolved Oxygen	Concur
3F	Whig Creek	AR_11110203_931	Ammonia	Concur
3G	Petit Jean River	AR_11110204_011	Turbidity	Concur
3G	Blue Mountian - Lower	AR_11110204_4061	Dissolved Oxygen	Concur
3G	Blue Mountian - Lower	AR_11110204_4061	Turbidity	Concur
3H	Lee Creek	AR_11110104_4020	pH	Concur
3H	Mulberry River	AR_11110201_007	pH	Concur

Planning Segment	Waterbody Name	Assessment Unit	Parameter	Conclusion
3H	Mulberry River	AR_11110201_008	pH	Concur
3H	Little Mulberry Creek	AR_11110201_012	pH	Concur
3H	Friley Creek	AR_11110201_912	pH	Concur
3H	E. Fk. Illinois Bayou	AR_11110202_013	Dissolved Oxygen	Concur
3H	Horsehead	AR_11110202_4050	pH	Concur
3I	Poteau River	AR_11110105_001	Dissolved Oxygen	Concur
3I	Poteau River	AR_11110105_031	Turbidity	Concur
3I	Poteau River	AR_11110105_031	Sulfate	Concur
3I	Unnamed Tributary to Poteau	AR_11110105_831	Chloride	Concur
3I	Unnamed Tributary to Poteau	AR_11110105_831	Total Dissolved Solids	Concur
3J	Illinois River	AR_11110103_020	Chloride	Concur
3J	Illinois River	AR_11110103_020	Sulfate	Concur
3J	Illinois River	AR_11110103_024	Chloride	Concur
3J	Illinois River	AR_11110103_024	Sulfate	Concur
3J	Moores Creek	AR_11110103_026	Sulfate	Concur
3J	Illinois River, Muddy Fork	AR_11110103_027	Sulfate	Concur
3J	Fayetteville	AR_11110103_4080	pH	Concur
4A	White River	AR_08020303_005	Dissolved Oxygen	Concur
4A	Boat Gunwale Slash	AR_08020303_914	Dissolved Oxygen	Concur
4A	Big Creek	AR_08020304_010	Chloride	Concur
4A	Big Creek	AR_08020304_010	Total Dissolved Solids	Concur
4A	Prairie Cypress	AR_08020304_014	Dissolved Oxygen	Concur
4A	Prairie Cypress	AR_08020304_014	Copper	Concur
4B	Bayou DeView	AR_08020302_002	Dissolved Oxygen	Concur
4B	Bayou DeView	AR_08020302_004	Dissolved Oxygen	Concur
4B	Bayou DeView	AR_08020302_004	Sulfate	Concur
4B	Bayou DeView	AR_08020302_005	Dissolved Oxygen	Concur
4B	Bayou DeView	AR_08020302_005	Sulfate	Concur
4B	Bayou DeView	AR_08020302_006	Dissolved Oxygen	Concur
4B	Bayou DeView	AR_08020302_006	Sulfate	Concur
4B	Bayou DeView	AR_08020302_007	Dissolved Oxygen	Concur
4B	Bayou DeView	AR_08020302_007	Sulfate	Concur
4B	Flag Slough Ditch	AR_08020302_011	Dissolved Oxygen	Concur
4B	Bayou DeView (Cow Ditch)	AR_08020302_012	Dissolved Oxygen	Concur
4B	Buffalo Creek	AR_08020302_014	Dissolved Oxygen	Concur
4B	Cache River	AR_08020302_016	Dissolved Oxygen	Concur
4B	Cache River	AR_08020302_016	Lead	Concur
4B	Frierson	AR_08020302_4020	Copper	Concur
4B	Caney Creek	AR_08020302_903	Dissolved Oxygen	Concur

Planning Segment	Waterbody Name	Assessment Unit	Parameter	Conclusion
4B	Lost Creek Ditch	AR_08020302_909	Chloride	Concur
4C	Village Creek	AR_11010013_006	Dissolved Oxygen	Concur
4C	Village Creek	AR_11010013_007	Dissolved Oxygen	Concur
4C	Village Creek	AR_11010013_008	Dissolved Oxygen	Concur
4C	White River	AR_11010013_017	Temperature	Concur
4C	Departee Creek	AR_11010013_020	Dissolved Oxygen	Concur
4C	Departee Creek	AR_11010013_020	Zinc	Concur
4C	Glaise Creek	AR_11010013_021	Dissolved Oxygen	Concur
4C	Glaise Creek	AR_11010013_021	Zinc	Concur
4D	Bayou Des Arc	AR_08020301_006	Dissolved Oxygen	Concur
4D	Bayou Des Arc	AR_08020301_006	Temperature	Concur
4D	Bayou Des Arc	AR_08020301_006	Turbidity	Concur
4D	Bayou Des Arc	AR_08020301_007	Dissolved Oxygen	Concur
4D	Bayou Des Arc	AR_08020301_007	Lead	Concur
4D	Bull Creek	AR_08020301_009	Dissolved Oxygen	Concur
4D	Bull Creek	AR_08020301_009	Zinc	Concur
4D	Cypress Bayou	AR_08020301_010	Dissolved Oxygen	Concur
4D	Wattensaw Bayou	AR_08020301_015	Dissolved Oxygen	Concur
4E	S. Fk Little Red River	AR_11010014_036	pH	Concur
4E	S. Fk Little Red River	AR_11010014_038	pH	Concur
4E	S. Fk Little Red River	AR_11010014_040	Dissolved Oxygen	Concur
4E	S. Fk Little Red River	AR_11010014_940	pH	Concur
4F	Hicks Creek	AR_11010004_015	Pathogens	Concur
4F	Greenbrier Creek	AR_11010004_017	Dissolved Oxygen	Concur
4G	Fourche River	AR_11010009_008	Turbidity	Concur
4G	Strawberry River	AR_11010012_006	pH	Concur
4H	Spring River	AR_11010010_006	Temperature	Concur
4H	English Creek	AR_11010010_009	Dissolved Oxygen	Concur
4H	Gut Creek	AR_11010010_906	Dissolved Oxygen	Concur
4I	Crooked Creek	AR_11010003_049	Temperature	Concur
4K	White River	AR_11010001_023	Sulfate	Concur
4K	West Fork White River	AR_11010001_024	Turbidity	Concur
4K	West Fork White River	AR_11010001_024	Sulfate	Concur
4K	West Fork White River	AR_11010001_024	Total Dissolved Solids	Concur
4K	Kings River	AR_11010001_037	Total Dissolved Solids	Concur
4K	Kings River	AR_11010001_542	Dissolved Oxygen	Concur
4K	West Fork White River	AR_11010001_624	Dissolved Oxygen	Concur
4K	West Fork White River	AR_11010001_624	Sulfate	Concur
4K	Town Branch	AR_11010001_824	Turbidity	Concur



Planning Segment	Waterbody Name	Assessment Unit	Parameter	Conclusion
4K	Leatherwood Creek	AR_11010001_916	Dissolved Oxygen	Concur
4K	Middle Fork White River	AR_11010001_926	Dissolved Oxygen	Concur
4K	Town Branch	AR_11010001_959	Total Dissolved Solids	Concur
5A	St. Francis River	AR_08020203_008	Dissolved Oxygen	Concur
5A	St. Francis River	AR_08020203_008	Chloride	Concur
5A	St. Francis River	AR_08020203_009	Dissolved Oxygen	Concur
5A	St. Francis River	AR_08020203_009	Chloride	Concur
5A	Ten Mile Bayou	AR_08020203_906	Dissolved Oxygen	Concur
5B	L' Anguille River	AR_08020205_001	Dissolved Oxygen	Concur
5B	L' Anguille River	AR_08020205_001	Chloride	Concur
5B	L' Anguille River	AR_08020205_001	Total Dissolved Solids	Concur
5B	L' Anguille River	AR_08020205_002	Dissolved Oxygen	Concur
5B	L' Anguille River	AR_08020205_002	Chloride	Concur
5B	L' Anguille River	AR_08020205_002	Total Dissolved Solids	Concur
5B	L' Anguille River	AR_08020205_003	Dissolved Oxygen	Concur
5B	L' Anguille River	AR_08020205_003	Chloride	Concur
5B	L' Anguille River	AR_08020205_003	Total Dissolved Solids	Concur
5B	L' Anguille River	AR_08020205_004	Dissolved Oxygen	Concur
5B	L' Anguille River	AR_08020205_004	Chloride	Concur
5B	L' Anguille River	AR_08020205_005	Dissolved Oxygen	Concur
5B	L' Anguille River	AR_08020205_005	Chloride	Concur
5B	L' Anguille River	AR_08020205_005	Sulfate	Concur
5B	L' Anguille River	AR_08020205_005	Total Dissolved Solids	Concur
5B	First Creek	AR_08020205_007	Dissolved Oxygen	Concur
5B	Second Creek	AR_08020205_008	Dissolved Oxygen	Concur
5B	Caney Creek	AR_08020205_901	Dissolved Oxygen	Concur
5B	Prairie Creek	AR_08020205_902	Total Dissolved Solids	Concur
5C	Little River, Left	AR_08020204_001	Dissolved Oxygen	Concur
5C	Little River, Left	AR_08020204_002	Dissolved Oxygen	Concur

Note: Concur = Water quality limited segments for which EPA agrees with the State

**Table 2. Specific Waterbodies for which More Information is Requested**

Planning Segment	Waterbody Name	Assessment Unit	Parameter	Conclusion
2C	Lake Cox Creek	AR_08040203_4110	Unknown	More Information Requested
2F	Lake Ouachita	AR_08040101_4060	Mercury in Fish	More Information Requested
2F	Lake Ouachita	AR_08040101_4061	Mercury in Fish	More Information Requested
2F	Lake Ouachita	AR_08040101_4062	Mercury in Fish	More Information Requested
2F	Lake Ouachita	AR_08040101_4063	Mercury in Fish	More Information Requested
4A	Lake Greenlee	AR_08020304_4060	Unknown	More Information Requested
4H	South Fork Spring River	AR_11010010_012	Dissolved Oxygen	More Information Requested
5A	Lake Austell	AR_08020203_4030	Ammonia	More Information Requested
5A	Poinsette Lake	AR_08020203_4040	Unknown	More Information Requested