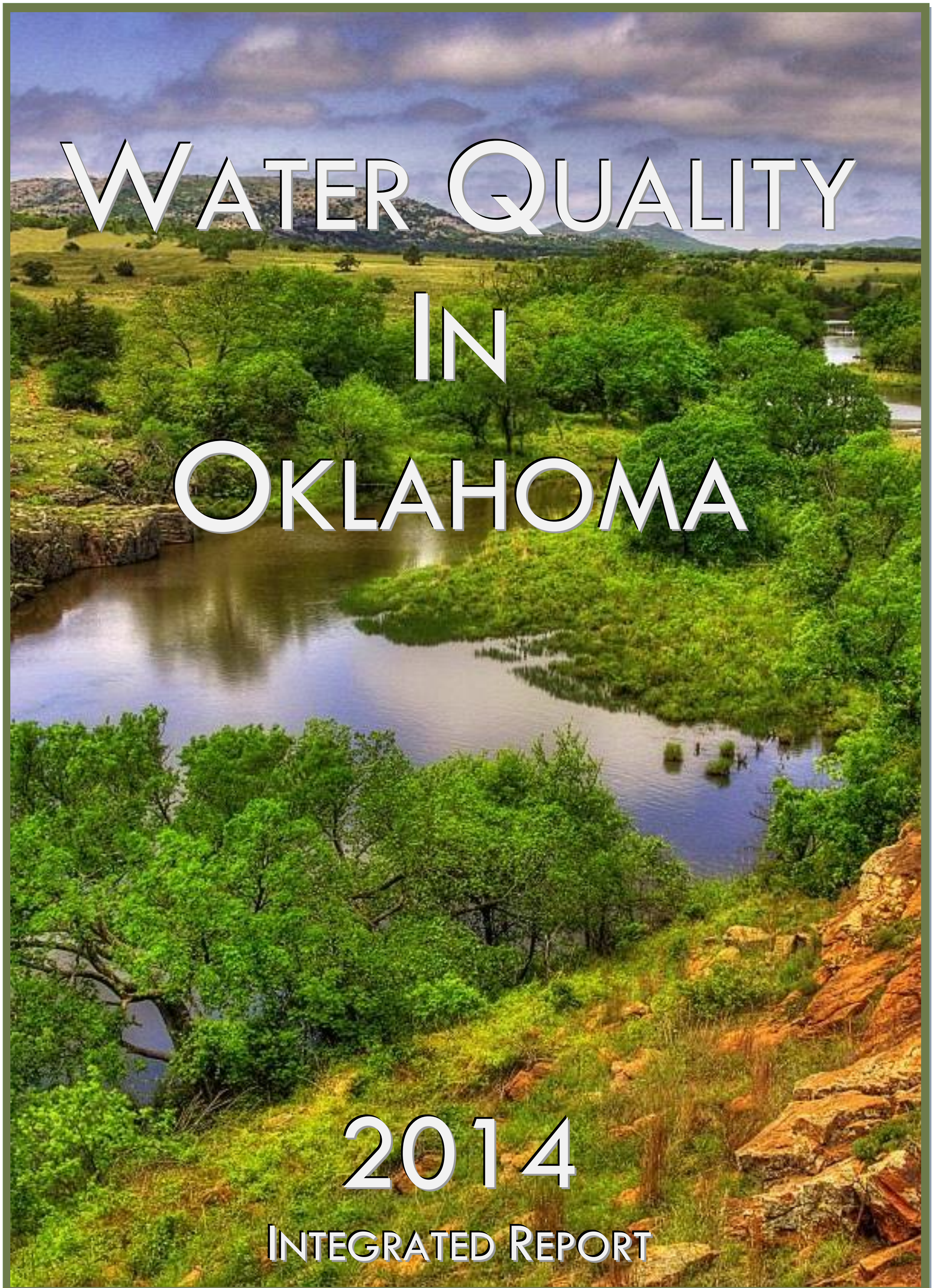
Water Quality In Oklahoma

2014

Integrated Report



Prepared Pursuant to Section 303(d) and Section 305(b) of the Clean Water Act

by

Oklahoma Department of Environmental Quality

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Acronyms and Definitions

Agencies

ODAFF	Oklahoma Department of Agriculture Food and Forestry
OCC	Oklahoma Conservation Commission
Corporation Commission	Oklahoma Corporation Commission
OSDH	Oklahoma State Department of Health
OSE	Office of the Oklahoma Secretary of Energy & Environment
DEQ	Oklahoma Department of Environmental Quality
OWRB	Oklahoma Water Resources Board
Wildlife Department	Oklahoma Department of Wildlife Conservation

Terminologies

303(d)	This section of the Clean Water Act requires each state to identify waters that do not or are not expected to meet applicable Water Quality Standards with technology-based controls alone. States are required to establish a priority ranking for the waters, taking into account the pollution severity and designated uses of the waters. Once identification and priority ranking are completed, states are to develop Total Maximum Daily Loads at a level necessary to achieve the applicable state Water Quality Standards.
304(l)	This section of the Clean Water Act requires each state to identify those waters that fail to meet Water Quality Standards due to toxic pollutants and other sources of toxicity. It also requires the preparation of individual control strategies that will reduce point source discharges of toxic pollutants.
305(b)	This section of the Clean Water Act requires each state to report its water quality on a biennial cycle.
314	This section of the Clean Water Act requires each state to establish a Lake Water Quality Assessment Report. This section provides federal funds for each state to submit a classification of lakes according to trophic condition, develop processes and methods to control sources of pollution and to work with other agencies in restoring the quality of those lakes. Section 314 establishes the guidelines for conducting Clean Lake Studies Phase I and II.
319(h)	This section of the Clean Water Act requires each state to develop a State Assessment Report and a Management Program for Nonpoint Source pollution problems. The Assessment Report is to describe the nature, extent, and effects of Nonpoint Source pollution, the causes and sources of such pollution, and programs and methods used for controlling this pollution.

BMPs	Best Management Practices: A technique that is determined to be the most effective, practical means of preventing or reducing pollutants from nonpoint sources in order to achieve water quality goals.
BOD_5	Biochemical Oxygen Demand (5-Day): The oxygen used in meeting the metabolic needs of aerobic microorganisms in water rich in organic matter -- called also biological oxygen demand; the test requires five days of laboratory time and results may vary when toxic substances are present which effect bacteria.
$CBOD_5$	Carbonaceous Biochemical Oxygen Demand (5-Day): That portion of the BOD that is not due to oxidation of nitrogenous compounds.
CTSI	Carlson's Trophic State Index (CTSI = 9.81 ln[chl-α] + 30.6).
CWA	Clean Water Act: Public Law 92-500 enacted in 1972 provides for a comprehensive program of water pollution control; two goals are proclaimed in this Act: (1) to achieve swimmable, fishable waters wherever attainable by July 1, 1983, and (2) by 1985 eliminate the discharge of pollutants into navigable waters.
DDT	Dichlorodiphenyltrichloroethane: A colorless odorless water-insoluble crystalline insecticide $C_{14}H_9C_{l5}$ that tends to accumulate in ecosystems and has toxic effects on many vertebrates.
DO	Dissolved Oxygen: The amount of oxygen dissolved in water. DO concentrations range from a few parts per million up to about 10 ppm for most Oklahoma streams. A level of DO around 7 ppm is essential to sustain desired species of game fish. If DO drops below 5 ppm the danger of a fish kill is present and malodorous conditions will result. The major factors determining DO levels in water are temperature, atmospheric pressure, plant photosynthesis, rate of aeration and the presence of oxygen demanding substances such as organic wastes. In addition to its effect on aquatic life, DO also prevents the chemical reduction and subsequent movement of iron and manganese from the sediments and thereby reduces the cost of water treatment.
µg/L	Microgram/liter.
NPDES	National Pollutant Discharge Elimination System: A permit program established by Section 402 of the Clean Water Act. This program regulates discharges into the nation's water from point sources, including municipal, industrial, commercial and certain agricultural sources.
NTU	Nephelometric Turbidity Units: The measurement of the extent or degree of cloudiness by means of a nephelometer (an instrument for determining the concentration or particle size of suspensions by means of transmitted or reflected light).
OKWBID	Oklahoma Waterbody Identification number: A unique identifier assigned to each waterbody in Oklahoma. For a complete description of OKWBIDs, please see Appendix A.
PCB(s)	Polychlorinated Biphenyl(s): Any of several compounds that are produced by replacing hydrogen atoms in biphenyl with chlorine, have various industrial applications, and are poisonous environmental pollutants which tend to accumulate in animal tissues.
pH	The negative logarithm of the effective hydrogen ion concentration or hydrogen-ion activity in gram equivalents per liter used in expressing both acidity and alkalinity on

	a scale whose values run from 0 to 14 with 7 representing neutrality, numbers less than 7 increasing acidity, and numbers greater than 7 increasing alkalinity.
Playa Lakes / Prairie Potholes	Shallow, small, ephemeral to permanent closed basin lake, typically found in high plains and deserts.
TDS	Total Dissolved Solids: The complete amount of solid matter dissolved in water or wastewater.
TMDL	Total Maximum Daily Load: The sum of individual wasteload allocations for point sources, safety, reserves, and loads from nonpoint source and natural backgrounds.
WLA	Wasteload Allocation: The assignment of target loads to point sources so as to achieve Water Quality Standards in the most efficient manner. The wasteload allocation is designed to allocate or allow certain quantities, rates or concentration of pollutants discharged from contributing point sources which empty their effluent into the same river segment. The purpose of the wasteload allocation is to eliminate an undue "wasteload burden" on a given stream segment.
WQS	Water Quality Standards: rules which establish classifications of uses of waters of the State, criteria to maintain and protect such classifications, and other standards or policies pertaining to the quality of such waters. The purpose of the Standards is to promote and protect as many beneficial uses as are attainable and to assure that degradation of existing quality of waters of the State does not occur. These rules can be found at OAC 785:45.

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Executive Summary/Overview

Clean Water Act (CWA) Section 303(d) Requirements

The 1972 amendments to the Clean Water Act include Section 303(d). The regulations implementing Section 303(d) require states to develop lists of water bodies that do not meet Water Quality Standards and to submit updated lists to the U. S. Environmental Protection Agency (EPA) every two years. Water quality standards, as defined in the Code of Federal Regulations, include beneficial uses, water quality objectives (narrative and numerical) and anti-degradation requirements. The EPA is required to review impaired water body lists submitted by each state and approve or disapprove all or part of the list.

For waterbodies on the 303(d) list, the Clean Water Act requires that a pollutant load reduction plan or TMDL be developed to correct each cause of impairment. TMDLs must document the nature of the water quality impairment, determine the maximum amount of a pollutant which can be discharged and still meet standards, and identify allowable loads from the contributing sources. The elements of a TMDL include a problem statement, description of the desired future condition (numeric target), pollutant source analysis, load allocations, description of how allocations relate to meeting targets, and margin of safety.

CWA Section 305(b) Requirements

The 1972 amendments to the Clean Water Act also include Section 305(b). The regulations implementing Section 305(b) require states to develop an inventory of the water quality of all water bodies in the state and to submit an updated report to the EPA every two years. This process was established as a means for the EPA and the U. S. Congress to determine the status of the nation's waters.

The 305(b) Report also includes: an analysis of the extent to which water bodies comply with the "fishable/swimmable" goal of the CWA; an analysis of the extent to which the elimination of the discharge of pollutants and a level of water quality achieving the "fishable/swimmable" goal have been or will be attained, with recommendations of additional actions necessary to achieve this goal; an estimate of a) the environmental impact, b) the economic and social costs, c) the economic and social benefits, and d) the estimated date of such achievement; and finally, a description of the nature and extent of nonpoint sources of pollutants, and recommendations of programs needed to control them- including an estimate of the costs of implementing such programs.

Integrated Report Guidance

The US Environmental Protection Agency (EPA) issued guidance (EPA, 2005) for the development of an Integrated Water Quality Monitoring and Assessment Report (Integrated Report) by the states. This guidance recommends that states integrate their Water Quality Inventory Report (Section 305(b) of the CWA) and their Impaired Waterbodies List (Section 303(d) of the CWA). The Integrated Report is intended to provide an effective tool for maintaining high quality waters and improving the quality of waters that do not attain Water Quality Standards. The Integrated Report will also provide water resources managers and citizens with detailed information regarding the following:

- Delineation of water quality assessment units providing geographic display of assessment results
- Progress toward achieving comprehensive assessment of all waters
- Water quality standards attainment status
- Methods used to assess Water Quality Standards attainment status
- Additional monitoring needs and schedules
- Pollutants and watersheds requiring Total Maximum Daily Loads (TMDLs)
- Pollutants and watersheds requiring alternative pollution control measures
- Management strategies (including TMDLs) under development to attain Water Quality Standards
- TMDL development schedules

The Integrated Report will streamline water quality reporting since data sources and assessment methods will be described in detail, providing a sound technical basis for assessment decisions. Assessment results will also be conveyed in a spatial context, allowing a clearer picture of water quality status and issues. Monitoring needs and schedules will be described, facilitating the articulation of monitoring priorities and identifying opportunities for cooperation with other agencies and watershed partners. TMDL needs and schedules will be defined to convey plans for water quality improvements. The public participation aspects will provide opportunities for data submittal and open discussion of water quality assessment methods and results.

The Integrated Report combines the non-regulatory requirements of the Water Quality Inventory Report (305b) with regulation driven List of Impaired Waterbodies (303d) (i.e., only the latter mandates TMDL development). Successful integration into a single report requires a careful meshing of requirements and procedures. In general, Category 5 of the Integrated Report satisfies EPA reporting requirements under Section 303d (Impaired Waterbodies) and combined with the remaining Categories document assessment under Section 305b (Water Quality Inventory). Therefore, the regulatory requirements (i.e., EPA approval and adoption; public participation, etc.) for 303d impaired waterbodies listing only apply to Category 5 of the Integrated Report.

The methods used to develop the 2012 Integrated Report (and subsequent Reports) are described in the Continuing Planning Process (CPP). One goal of the CPP is to provide an objective and scientifically sound waterbody assessment listing methodology including:

- A description of the data that the State will use to assess attainment of surface Water Quality Standards
- The quality assurance aspects of the data
- A detailed description of the methods used to evaluate Water Quality Standards attainment
- The placement of waterbodies in one of 5 Categories:

<u>Category 1</u> **- Attaining the water quality standard and no use is threatened.**

Waterbodies listed in this category are characterized by data and information that meet the requirements of the CPP to support a determination that the water quality standard is attained and no use is threatened. Consideration will be given to scheduling these waterbodies for future monitoring to determine if the water quality standard continues to be attained.

<u>Category 2</u> **- Attaining some of the designated uses; no use is threatened; and insufficient or no data and information is available to determine if the remaining uses are attained or threatened.**

Waterbodies listed in this category are characterized by data and information which meet the requirements of the CPP to support a determination that some, but not all, uses are attained and none are threatened. Attainment status of the remaining uses is unknown because there is insufficient or no data or information. Monitoring shall be scheduled for these waterbodies to determine if the uses previously found to be in attainment remain in attainment, and to determine the attainment status of those uses for which data and information was previously insufficient to make a determination.

<u>Category 3</u> **- Insufficient or no data and information to determine if any designated use is attained.**

Waterbodies are listed in this category when the data or information to support an attainment determination for any use is not available, consistent with the requirements of the CPP. To assess the attainment status of these waterbodies, supplementary data and information shall be obtained, or monitoring shall be scheduled as needed.

Category 4 **- Impaired or threatened for one or more designated uses but does not require the development of a TMDL.**

4A - TMDL has been completed.

Waterbodies are listed in this subcategory once all TMDL(s) have been developed and approved by EPA that, when implemented, are expected to result in full attainment of the standard. Where more than one pollutant is associated with the impairment of a waterbody, the waterbody will remain in Category 5 until all TMDLs for each pollutant have been completed and approved by EPA. Monitoring shall be scheduled for these waterbodies to verify that the water quality standard is met when the water quality management actions needed to achieve all TMDLs are implemented.

4B - Other pollution control requirements are reasonably expected to result in the attainment of the water quality standard in the near future.

Consistent with the regulation under 130.7(b)(i),(ii), and (iii), waterbodies are listed in this subcategory when other pollution control requirements required by local, state, or federal authority are stringent enough to implement any water quality standard (WQS) applicable to such waters. These requirements must be specifically applicable to the particular water quality problem. Monitoring shall be scheduled for these waterbodies to verify that the water quality standard is attained as expected.

4C - Impairment is not caused by a pollutant.

Waterbodies are listed in this subcategory if the impairment is not caused by a pollutant. Scheduling of these waterbodies for monitoring to confirm that there continues to be no pollutant-caused impairment and to support water quality management actions necessary to address the cause(s) of the impairment, shall be considered.

Category 5 **- The water quality standard is not attained. The waterbody is impaired or threatened for one or more designated uses by a pollutant(s), and requires a TMDL.**

This category constitutes the Section 303(d) list of waters impaired or threatened by a pollutant(s) for which one or more TMDL(s) are needed. A waterbody is listed in this category if it is determined, in accordance with the CPP, that a pollutant has caused, is suspected of causing, or is projected to cause an impairment. Where more than one pollutant is associated with the impairment of a single waterbody, the waterbody will remain in Category 5 until TMDLs for all pollutants have been completed and approved by EPA. For waterbodies listed in this category, monitoring schedules shall be provided that describe when data and information will be collected to support TMDL establishment and to determine if the standard is attained. While the waterbody is being monitored for a specific pollutant to develop a TMDL, the watershed shall also be monitored to assess the attainment status of other uses. A schedule for the establishment of TMDLs for all waters in Category 5 shall be submitted. This schedule shall reflect the priority ranking of the listed waters. Category 5 waterbodies are further divided into the following subcategories:

5A – TMDL is underway or will be scheduled.

5B – A review of the Water Quality Standards will be conducted before a TMDL is scheduled.

5C – Additional data and information will be collected before a TMDL or review of the Water Quality Standards is scheduled.

The CPP will provide a companion to the 2012 Integrated Report. It is anticipated that this will be a living document and will be modified, as appropriate, to accompany subsequent Integrated Reports.

Oklahoma's comprehensive waterbody category list is available in Appendix B. Impaired waterbodies (Category 4 & 5) can be viewed exclusively in Appendix C.

Synopsis

During the 2013/2014 reporting cycle, there were a total of 4,209 waterbodies delineated into the Oklahoma Assessment Database (ADB). These waters include approximately 621,050 lake acres, and 32,988 river and stream miles, of which approximately 517 miles form the border with the State of Texas.

The water quality data used in this report was collected by the Oklahoma Conservation Commission (OCC), Oklahoma Department of Environmental Quality (DEQ), Oklahoma Corporation Commission (Corp. Comm.), Oklahoma Water Resources Board (OWRB), United States Geological Survey, City of Tulsa, Cherokee Nation, and citizens of the State. Only data collected prior to April 30, 2013 was utilized for this report.

Data used in this report came from several sources, including the *Toxics Monitoring Survey of Oklahoma Reservoirs* (OSDH, 1995), *Nonpoint Source Pollution Assessment Report (Section 319(h))* (OCC, 1988, 1994), Clean Lakes Programs (Section 314) (OCC & OWRB), *Lake Water Quality Assessment Report* (OCC & OWRB, 1994), *The Water Quality of Oklahoma 2012 Integrated Report* (DEQ, 2012), Data Gaps Monitoring Projects (OCC 2002, 2003), Beneficial Use Monitoring Program, Rotating Basin Monitoring Program, intensive and rapid bio-assessment surveys. Historical data and assessments (prior to May 1, 2008) were only used when insufficient current data was available to assess a waterbody.

The State considers data gathered by interested citizens of the State of Oklahoma to be an important part of the water quality assessment process. Blue Thumb volunteers collect water quality samples on a monthly basis to screen for potential problems in streams. They also participate in fish and macroinvertebrate collections with OCC staff and these results are used for biological assessment. For more information on Blue Thumb, contact the Oklahoma Conservation Commission.

Additional monitoring will allow the State agencies to refine and modify the descriptions of the quality of the State's waters. This report reflects water quality determinations made in the past and such determinations will be confirmed or modified, as additional monitoring data becomes available. Where some waterbodies are indicated to be impaired, and suspected cause of impairment is listed, this information is also subject to confirmation or modification based on additional studies and evaluation by State agencies.

Table 1 shows the size and number of lakes in the State of Oklahoma designated as one of the five available categories outlined in the Integrated List Guidance above, while Table 2 does the same for river and stream miles.

TABLE 1. LAKE CATEGORY SUMMARY

Category	Size (Acres)	Number of Waterbodies
1	5,628	7
2	96,090	39
3	20,558	260
4a	13,038	4
5a	485,488	115
5b	106	2
5c	142	2

TABLE 2. RIVER AND STREAM CATEGORY SUMMARY

Category	Size (Miles)	Number of Waterbodies
1	107	3
2	3,165	276
3	19,099	2,870
4a	2,427	115
5a	6,343	341
5b	1,353	131
5c	607	44

Table 3 details the attainment status of each designated beneficial use assigned to lake acres in Oklahoma, while Table 4 does the same for river and stream miles. Each beneficial use for a waterbody must have only one attainment status associated with that use: supporting, not supporting, insufficient information, or not assessed (no information). The methodology for assigning the attainment status of a beneficial use of a waterbody is outlined in the Assessment Methodology and Summary Data section of this report.

TABLE 3. LAKE BENEFICIAL USE SUPPORT SUMMARY

Lake Acres					
Use	Total Size	Size Fully Supporting	Size Not Supporting	Size Not Assessed	Size with Insufficient Info
Aesthetic	621,050	489,948	29,351	20,401	84,350
Agriculture	611,910	564,775	21,701	20,265	5,169
Fish Consumption	621,050	122,431	122,581	29,538	346,500
Warm Water Aquatic Community	621,050	12,860	464,874	20,409	122,907
Navigation	84,440	84,440	0	0	0
Primary Body Contact Recreation	621,050	294,598	20,900	20,750	284,802
Public and Private Water Supply	570,294	63,581	70,512	9,402	426,799

TABLE 4. RIVER AND STREAM BENEFICIAL USE SUPPORT SUMMARY

River Miles					
USE	**Total Size**	**Size Fully Supporting**	**Size Not Supporting**	**Size Not Assessed**	**Size with Insufficient Info**
Aesthetic	32,971	5,838	239	17,910	8,984
Agriculture	32,900	7,643	3,056	18,347	3,854
Emergency Water Supply	1,602	1,573	0	29	0
Fish Consumption	32,901	2,077	1,053	29,010	761
Cool Water Aquatic Community Subcategory	1,625	575	451	487	113
Habitat Limited Aquatic Community Subcategory	887	106	118	554	109
Trout Fishery	34	0	1	24	9
Warm Water Aquatic Community Subcategory	30,452	4,174	5,919	15,663	4,696
Navigation	214	214	0	0	0
Primary Body Contact Recreation	31,662	927	7,740	21,848	1,147
Public and Private Water Supply	14,830	1,485	211	6,644	6,490
Secondary Body Contact Recreation	1,335	118	66	908	243

Table 5 shows the number of lake acres impaired by specific pollutant and Table 6 shows the same for the number of river and stream miles.

TABLE 5. LAKE ACRES IMPAIRED BY SPECIFIC POLLUTANT

Cause	Size (Acres)
Turbidity	366,017
Dissolved Oxygen	155,904
Mercury	84,259
Chlorophyll-α	70,513
pH	57,387
Lead	42,661
Phosphorus (Total)	29,351
Enterococcus	20,900
Chloride	19,224
Sulfates	2,477
Copper	352

TABLE 6. RIVER AND STREAM MILES IMPAIRED BY SPECIFIC POLLUTANT

Impairment	Size (Miles)
Enterococcus	7,442
Escherichia coli	4,006
Turbidity	2,709
Dissolved Oxygen	2,116
Sulfates	1,987
Chloride	1,633
Fishes Bioassessments	1,599
Total Dissolved Solids	1,496
Lead	1,327
Benthic Macroinvertebrate Bioassessments	744
pH	678
Selenium	584
Sedimentation/Siltation	436
Oil and Grease	145
Silver	132
Copper	122
Zinc	99
Total Phosphorus	95
Nitrates	63
Ammonia	46
Cadmium	44
Chlorpyrifos	42
Mercury	33
DDT	30
Toxaphene	30
Dieldrin	14
Diazinon	11
Arsenic	6
Chromium (total)	6
Barium	4

Table 7 shows the number of lake acres impaired by potential sources, and Table 8 shows the number of river and stream miles impaired by potential sources.

TABLE 7. LAKE ACRES IMPAIRED BY POTENTIAL SOURCE

Potential Source	Size (Acres)
Source Unknown	498,423
Mine Tailings	38,322
Rangeland Grazing	34,154
Wildlife Other than Waterfowl	34,154
Grazing in Riparian or Shoreline Zones	29,122
Natural Sources	18,249
Wastes from Pets	17,522
Animal Feeding Operations	9,476
Impacts from Land Application of Wastes	9,476
Sources Outside State Jurisdiction or Borders	9,476
On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)	4,870
Petroleum/Natural Gas Activities (Legacy)	35
Silviculture Harvesting	25

TABLE 8. RIVER AND STREAM MILES IMPAIRED BY POTENTIAL SOURCE

Potential Source	Size (Miles)
Source Unknown	10,164
Grazing in Riparian or Shoreline Zones	7,439
Rangeland Grazing	7,253
Wildlife Other than Waterfowl	7,130
On-site Treatment Systems (Septic Systems and Similar Decentralized Systems	7,055
Residential Districts	5,595
Wastes from Pets	5,308
Non-Irrigated Crop Production	4,080
Highway/Road/Bridge Runoff (Non-construction Related)	4,025
Impacts from Land Application of Wastes	3,672
Municipal Point Source Discharges	3,272
Petroleum/Natural Gas Activities (Legacy)	2,839
Total Retention Domestic Sewage Lagoons	1,052
Agriculture	861
Permitted Runoff from Confined Animal Feeding Operations (CAFOs)	649
Animal Feeding Operations (NPS)	647
Clean Sediments	378
Other Spill Related Impacts (Recent Spills)	339
Natural Sources	258
Landfills	251
Mine Tailings	210

Potential Source	Size (Miles)
Impacts from Abandoned Mine Lands	196
Industrial Point Source Discharge	167
Municipal (Urbanized High Density Area)	160
Impacts from Hydrostructure Flow Regulation/Modification	155
Sources outside State Jurisdiction or Borders	153
Atmospheric Deposition - Acidity	107
Discharges from Municipal Separate Storm Sewer Systems (MS4)	102
Dredging (E.g., for Navigation Channels)	73
Acid Mine Drainage	44
Land Application of Wastewater Biosolids (Non-agricultural)	40
Silviculture Harvesting	33
Leaking Underground Storage Tanks	28
Atmospheric Deposition - Toxics	25
Spills from Trucks or Trains	17
Discharges from Biosolids (SLUDGE) Storage, Application or Disposal	17
Surface Mining	14
Irrigated Crop Production	14
CERCLA NPL (Superfund) Sites	12
Releases from Waste Sites or Dumps	11
Habitat Modification – other than Hydromodification	5

Statewide probabilistic estimates of fish communities, macroinvertebrate communities, benthic algae, and sestonic algae in rivers and streams are depicted in Tables 9 through 12, respectively. A description of the State of Oklahoma's probabilistic monitoring program can be found in Appendix F of this report. The full report can be found on the OWRB website at:
http://www.owrb.ok.gov/studies/reports/reports_pdf/StatewideStreamProbMonitoringNetwork2008-2011.pdf

TABLE 9. STATEWIDE PROBABILISTIC ASSESSMENT OF FISH IN RIVERS AND STREAMS

Resource	Unit	Study Period	Cause Name	State Attainment Category	Size in Category	Conf Level	Lower Conf	Upper Conf
Rivers/Streams	Miles	2008-2011	Fish	Good	12,232	95%	9,499	15,165
Rivers/Streams	Miles	2008-2011	Fish	Fair	1,215	95%	577	1,854
Rivers/Streams	Miles	2008-2011	Fish	Poor	7,470	95%	4,656	10,285

TABLE 10. STATEWIDE PROBABILISTIC ASSESSMENT OF MACROINVERTEBRATES IN RIVERS AND STREAMS

Resource	Unit	Study Period	Cause Name	State Attainment Category	Size in Category	Conf Level	Lower Conf	Upper Conf
Rivers/Streams	Miles	2008-2011	Macroinvertebrates	Good	4,693	95%	2,419	6,966
Rivers/Streams	Miles	2008-2011	Macroinvertebrates	Fair	8,954	95%	6,178	11,729
Rivers/Streams	Miles	2008-2011	Macroinvertebrates	Poor	7,371	95%	4,854	9,888

TABLE 11. STATEWIDE PROBABILISTIC ASSESSMENT OF BENTHIC ALGAE IN RIVERS AND STREAMS

Resource	Unit	Study Period	Cause Name	State Attainment Category	Size in Category	Conf Level	Lower Conf	Upper Conf
Rivers/Streams	Miles	2008-2011	Benthic Algae	Good	16,326	95%	14,613	18,038
Rivers/Streams	Miles	2008-2011	Benthic Algae	Fair	2,554	95%	1,193	3,916
Rivers/Streams	Miles	2008-2011	Benthic Algae	Poor	2,138	95%	1,030	3,246

TABLE 12. STATEWIDE PROBABILISTIC ASSESSMENT OF SESTONIC ALGAE IN RIVERS AND STREAMS

Resource	Unit	Study Period	Cause Name	State Attainment Category	Size in Category	Conf Level	Lower Conf	Upper Conf
Rivers/Streams	Miles	2008-2011	Sestonic Algae	Good	11,543	95%	8,879	14,207
Rivers/Streams	Miles	2008-2011	Sestonic Algae	Fair	4,841	95%	2,555	7,127
Rivers/Streams	Miles	2008-2011	Sestonic Algae	Poor	4,634	95%	3,108	6,160

Surface Water Quality

Oklahoma's Water Quality Standards (WQS) are set forth under statutory authority of the OWRB authorized under 82 O.S. § 1085.30. Under these statutes, OWRB "is required to set Water Quality Standards which are practical and in the best public interest and to classify the State's waters with respect to their best present and future uses. These WQS are designed to enhance the quality of the waters, to protect their beneficial uses, and to aid in the prevention, control and abatement of water pollution in the State of Oklahoma" (OWRB, 2006). The WQS have established designated beneficial uses and standards for all of Oklahoma's waters.

The overall support and attainment of the "fishable/swimmable" goals of the CWA is based upon "total waters." The EPA requires all states to report their attainment of the goals of the CWA based on total waters. Relying solely upon this portrayal probably overly inflates estimates of the impaired and threatened conditions of the State's waters since monitoring efforts are typically focused on known problem areas. It would be too cost prohibitive to assess all of the waters within the State. Therefore, all assessment work performed in the State is conducted in a manner that will best utilize available funding resources. For lake total water reporting, the acreage includes Natural Resource Conservation Service (NRCS) (formerly the Soil Conservation Service) assisted farm ponds. Oklahoma lists approximately 1,041,884 total lake acres for the State. Of this number, 330,000 acres comprise approximately 220,000 NRCS assisted farm ponds. These farm ponds are not included in EPA's total water database. Although not considered as "significant lakes," Oklahoma considers them as important natural resources for the agricultural and rural communities. These farm ponds provide a significant amount of water for livestock, a source of primary recreation for many, used as flood control devices, sediment catchments, and add to the recharge of groundwater aquifers.

Canals, laterals and most all of the wetlands have not been assessed for the goals of the CWA nor have they been assessed for their beneficial uses. Canals and laterals are manmade watercourses and have not been included in the Appendix A of the WQS. By default, these waters would be assigned primary protection under the 2008 WQS (OWRB, 2008). Due to a lack of funding, no assessment projects have been initiated on these types of waterbodies. Wetlands have not been assigned specific WQS and therefore fall under the same scenario as canals and laterals. Several projects and ventures have been initiated to inventory the wetlands within the State, but little assessment work has been completed.

The major factors affecting the overall use support of the rivers and streams of the State were from the following causes: pathogens, turbidity and low dissolved oxygen. The major factors affecting the overall use support of the lakes of the State were from the following causes: oxygen depletion, turbidity and color.

All unlisted waters, not included in Appendix A of the WQS, are assumed to have the beneficial uses consistent with the CWA's primary protection requirements. All beneficial use determinations are subject to administrative proceedings including the public hearing process.

Currently, DEQ develops draft National Pollutant Discharge Elimination System (NPDES) permits for the control and abatement of municipal and industrial pollution. DEQ issues the final NPDES permit for municipalities and industrial dischargers. Permit compliance is monitored by both the discharger and inspectors for DEQ.

Since the inception of the CWA in 1972 and its amendments, EPA administered the National Pollutant Discharge Elimination System (NPDES) program, which addresses the management of industrial and municipal wastewater discharges. Previously, the functions related to wastewater were found in the OSDH, for municipal wastewater, and OWRB for industrial wastewater. The scattering of the NPDES jurisdiction between two agencies that were independently pursuing delegation of their portion from the NPDES program did not appear to be conducive for Oklahoma to assume the program from EPA. Consolidation of the two agencies into DEQ in July 1993 solved this problem and the work began for the agency to develop its required program documents, rules and statute changes in preparation of submitting its formal NPDES application to EPA, Region 6 office in Dallas, Texas.

DEQ obtained NPDES program assumption from EPA on November 19, 1996. This is indicative of the agency having jurisdiction over the basic permitting, compliance and enforcement elements of the NPDES program, in addition to having authority over toxicity reduction, sewage sludge and pretreatment programs. In September 1997, program assumption to issue storm water permits was obtained from EPA.

ODAFF received delegation of a partial NPDES program from EPA on December 20, 2012. ODAFF is the NPDES permitting authority for discharges from concentrated animal feeding operations (CAFOs), discharges from the application of biological or chemical pesticides, discharges from silviculture activities, and construction stormwater discharges at agricultural operations.

Ground Water Quality

The Safe Drinking Water Act (SDWA) was originally passed by Congress in 1974 to protect public health by regulating the nation's public drinking water supply. The law was amended in 1986 and 1996 and requires many actions to protect drinking water and its sources: rivers, lakes, reservoirs, springs, and ground water wells. (SDWA does not regulate private wells which serve fewer than 25 individuals.) Several State agencies are involved in the protection of Oklahoma's groundwater. These include DEQ, ODAFF, Corporation Commission, OCC, and OWRB. DEQ is designated as the lead agency for the Wellhead Protection Program (WHPP).

There are instances of man induced groundwater pollution in the State. Except in a few old oilfields, they appear to be isolated instances and not general contamination of groundwater drinking water supplies. Historical data indicates water is of good quality from most aquifers.

Oklahoma has Groundwater Standards located in OAC 785:45-7. Designated beneficial uses for the groundwaters of the State are determined by Total Dissolved Solids (TDS). Groundwater with a mean concentration of TDS of less than 3,000 milligrams per liter has assigned beneficial uses of Public and Private Water Supply, Agriculture, and Industrial and Municipal Process and Cooling Water. Groundwater with a mean concentration of TDS of greater than or equal to 3,000 milligrams per liter but less than 10,000 milligrams per liter has assigned beneficial uses of Agriculture and Industrial and Municipal Process and Cooling Water. Groundwater is protected to background quality and, once polluted as a result of human activities, is restored to a quality to support its designated beneficial uses. Ensuring that groundwater meets Water Quality Standards is an important reason for developing and continuing a Water Quality monitoring Program.

The Oklahoma Legislature passed Senate Bill 1627 (SB1627) in 2008 requiring OWRB to establish a technical work group to analyze the potential for expanded use of "Marginal Quality Water" (MQW) from various sources throughout Oklahoma. SB1627 required that the group include representatives from State and federal agencies, industry, and other stakeholders. Through facilitated discussions, the group defined MQW as water that historically may have been unusable because of technological or economic issues with diverting, treating, and/or conveying the water. Five categories of MQWs were identified for further characterization and technical analysis, including:

- Treated wastewater effluent
- Stormwater runoff
- Oil and gas flowback/produced water
- Brackish surface and groundwater
- Water with elevated levels of key constituents

Work on this project is in progress and its results will be integrated into the overall Oklahoma Comprehensive Water Plan. A phased approach is being taken to meet the objectives of the legislation. This consists of:

- Quantifying and characterizing MQW sources temporally through 2060 and geographically across the State
- Assessing constraints to MQW use
- Matching projected water shortages across Oklahoma with MQW sources and assessing the feasibility of utilizing MQW

Background

Diversity and Ecology

Oklahoma is a diverse State in its ecology, geology, hydrology, and its rainfall. Oklahoma is comprised of the following ecoregions: Arkansas Valley, Boston Mountains, Central Great Plains, Central Irregular Plains, Central Oklahoma/Texas Plains, Flint Hills, Ouachita Mountains, Ozark Highlands, South Central Plains, Southwestern Tablelands, and Western High Plains. These ecoregions (Figure 1) range from short grass prairies to Loblolly Pine (*Pinus taeda*)/Short-leaf Pine (*P. echinata*)/Oak (*Quercus spp*.) mixed community.

Much of Oklahoma's original plant and some animal species are either extinct or are greatly reduced in their distribution. The reduction in native vegetation is mainly due to urban development, cultivation, conversion of native prairie to pasture, timber cutting, and erosion. There are approximately 2,540 species of plants, 81 species of reptiles, 53 species of amphibians, 101 species of mammals, 400 species of birds, and 175 species of fish. Agriculture is the number one land use business in Oklahoma. Wheat is the number one cash grain crop grown in Oklahoma. Wheat is valuable during the winter as pasture feed for cattle, sheep and dairy stock. Other important grain crops for the State include fall and spring oats, barley, rye, sorghum, soybeans, and corn. In addition, pecans, fruits, vegetables, cotton, and timber all constitute a significant source of income for the State. Other important agricultural land use practices include cattle, dairy stock, sheep, horses, goats, poultry, and select exotics (e.g., llamas and ostriches).

The latitude and longitude coordinate for the corners of the State, excluding the Panhandle are: Southeast 033°38'15"/ 094°29'08"; Northeast 036°59'54"/094°37'04"; Southwest 034°33'38"/100°00'00"; and Northwest 037°00'00"/100°00'00". The coordinates for the Panhandle are: Southeast 036°30'00"/ 100°00'00"; Northeast 037°00'00"/100°00'00"; Southwest 036°30'00"/103°00'00"; and Northwest 037°00'00"/103°00'00". Oklahoma runs approximately 481.51 miles east to west and 230.16 miles north to south. The surface area of Oklahoma occupies approximately 69,919 square miles or 44,000,000 acres. Oklahoma varies in its elevation from its lowest point of 287 feet above sea level on the Little River in McCurtain County on the border with Arkansas to its highest point of 4,973 feet above sea level, near Black Mesa in Cimarron County on the border with New Mexico. There are ten major geologic provinces in Oklahoma with the Northern Shelf Areas being the largest (Figure 2) (Oklahoma Geological Survey, 1972). Oklahoma is composed of 77 counties with Osage being the largest (Figure 3). Basic statistics on Oklahoma can be found in Table 9.

Information contained in Table 9 came from a variety of sources including the 2010 U.S. Census, United States Geological Survey data, OWRB data, Oklahoma Water Atlas, Reach File 3/Digital Line Graph Data, ground surveys, the Wildlife Department, United States Fish and Wildlife Service, and planimeter data. For the lakes information, Oklahoma uses the information from the *Oklahoma Water Atlas*. Oklahoma's environmental agencies feel that the information contained in the *Oklahoma Water Atlas* better represents the total of lakes and lake acres contained within the State. For the remaining rivers, creeks, canals and laterals we will be using a combination of sources for our data.

The total of fresh-water wetland acres was derived from information obtained from the Wildlife Department and United States Fish and Wildlife Service reports *Riparian Areas of Western Oklahoma* and *Bottomland Hardwoods of Eastern Oklahoma*. These reports contain information on 58 of the 77 counties in the State. The information in Table 11 was derived from taking the total of the largest most recent estimate for each county listed in the two reports. This total underestimates the actual number of wetland acres for the State and should be used with extreme caution when making comparison or trend analysis on Oklahoma's loss of wetlands.

FIGURE 1. ECOREGIONS OF OKLAHOMA

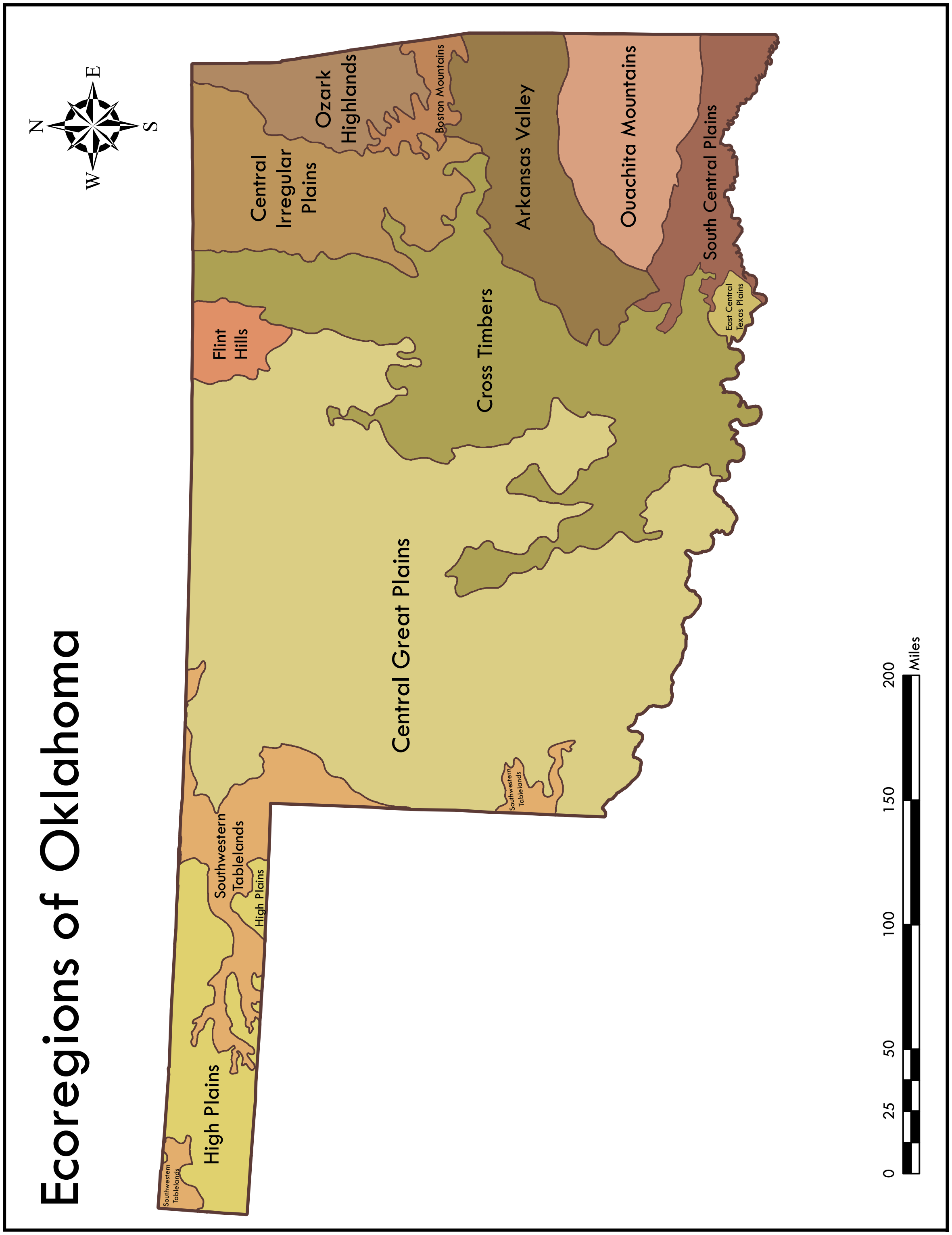


FIGURE 2. OKLAHOMA GEOLOGY

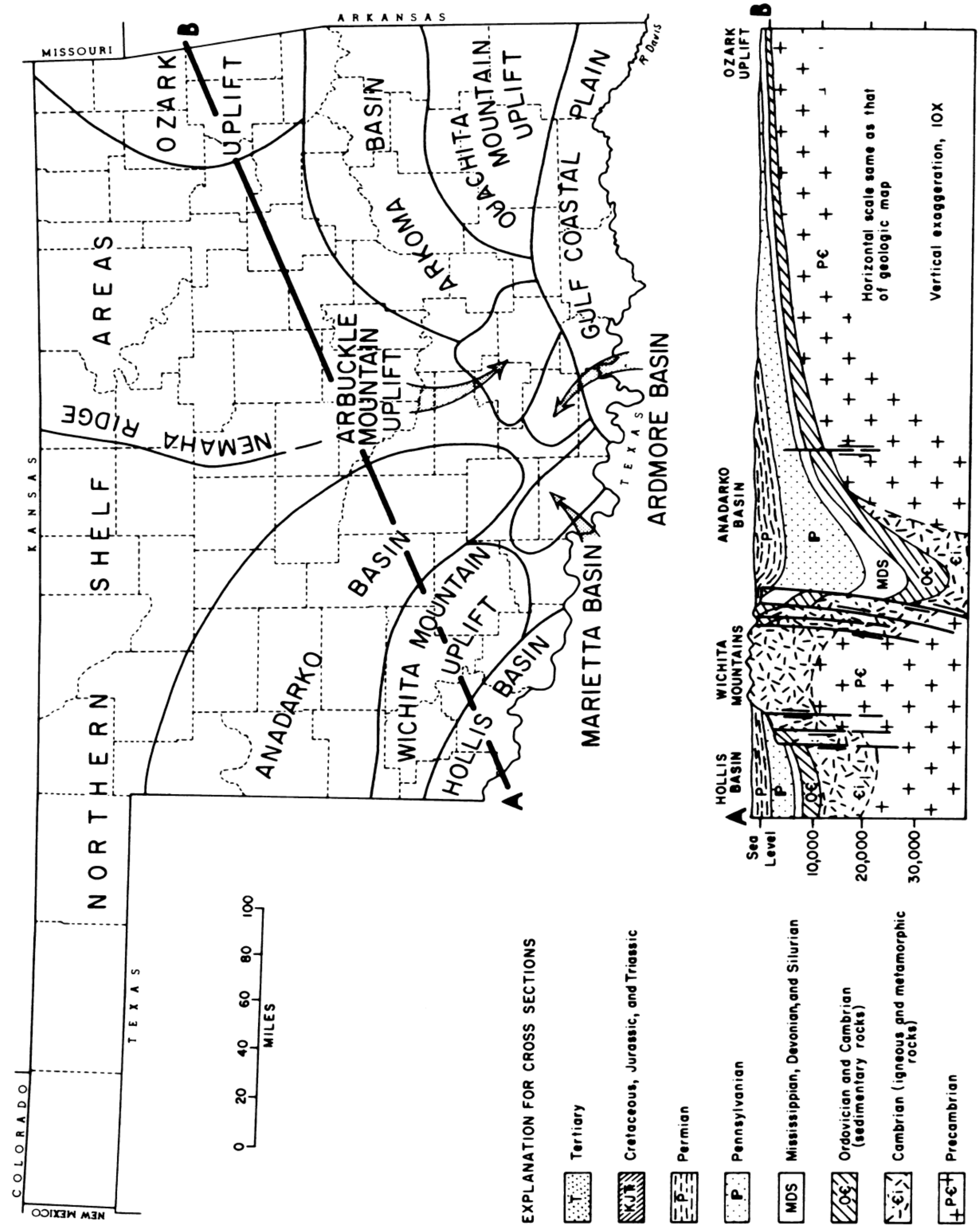


FIGURE 3. OKLAHOMA COUNTIES

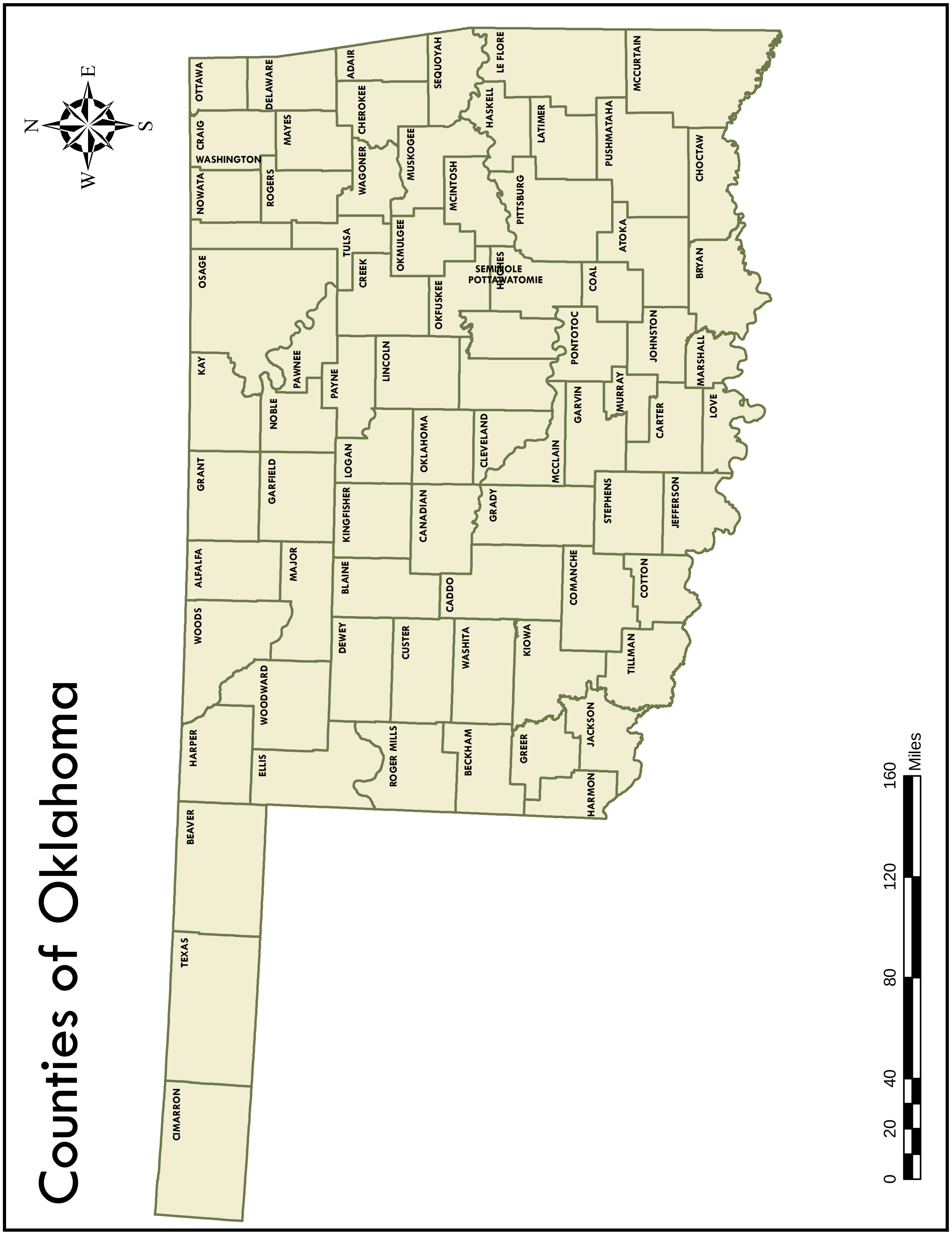


TABLE 13. ATLAS OF OKLAHOMA

State Population♦	3,850,568
State Surface Area, Square Miles♦♦	69,919
Number of Major Watershed Basins	7
Total Number of River and Stream Miles♣	78,778
Number of Perennial River and Stream Miles♣	22,386
Number of Intermittent Stream Miles♣	55,413
Number of Canals or Ditches♣	175
Number of River Border Miles♦♦♦	517
Total Number of Lakes/Reservoirs/Playa/Ponds♣♣	224,948
Number of Large Lakes♣♣	34
Number of Public & Private Lakes♣♣	2,303
Number of Watershed Protection Lakes♣♣	1,964
Number of Playa Lakes (wet season only)♣♣	585
Number of Oxbow Lakes (≥ 10 Acres)♣♣	62
Number of Farm Ponds (Soil Conservation Service assisted)♣♣	220,000
Total Number of Lakes/Reservoirs/Playa/Ponds Acres♣♣	1,041,884
Major Lake Acres♣♣	555,450
Public & Private Lake Acres♣♣	89,836
Watershed Protection Lake Acres♣♣	54,261
Playa Lakes Acres♣♣	9,572
Oxbow Lake Acres♣♣	2,765
Farm Pond Acres♣♣	330,000
Total Number of Freshwater Wetland Acres♣♣♣	733,895

♦ 2013 U.S. Census Bureau Estimates
♦♦ Based upon United States Geological Survey information
♦♦♦ OWRB Data
♣ Reach File 3/Digital Line Graph Data
♣♣ Oklahoma Water Atlas, 1990
♣♣♣ Estimates compiled from the Wildlife Department & U.S. Fish & Wildlife Service

Climate

Oklahoma has a continental type of climate. There are pronounced seasonal and geographical ranges in both temperature and precipitation. Average annual temperature varies from 53.6°F in the western part of the Panhandle up to 63.8°F in the southeast part of the State. Annual rainfall varies from approximately 17 inches in the far western part of the Panhandle to over 55 inches per year near the LeFlore County/McCurtain County/Arkansas border. The average growing season varies from 180 days in the Panhandle to 240 days in the southeast corner. Typically, 75% of Oklahoma's annual precipitation falls during the growing season.

Water Pollution Control Programs

The myriad and complex water quality problems remaining today require a more comprehensive approach to find workable and effective solutions. As we continue to have success reducing impacts from point sources, pollution from nonpoint sources takes on more significance. Non-traditional concerns such as habitat degradation and conservation of biological diversity also call for a comprehensive approach.

The watershed approach provides such a management framework. Utilizing support from the 104(b)(3) program, Oklahoma has taken the first steps to implement the watershed approach for water quality management in the State. The following accomplishments have been achieved:

- A Whole Basin Planning Approach Working Group was established to coordinate planning and implementation of the watershed approach in Oklahoma. Representatives of the various state and federal agencies with a role in water quality management were represented on the Working Group.

- A cooperative project with USGS produced a new digital elevation model and digital watershed maps for the state. Existing 8-digit cataloging units were subdivided into 11-digit watersheds. These watershed maps are the basis for the state program. The maps have been published on CD-ROM and are available to all agencies and the public.

- Utilizing the new watershed boundaries, the Working Group delineated 11 Watershed Management Units that are used to implement the watershed approach. The intent is that planning, monitoring, permitting, and other water quality programs will eventually be coordinated and organized at this scale when the watershed approach is fully implemented.

- Accurate locational data on all dischargers has been gathered using the Global Positioning System. These data have been built into a GIS-compatible format for analysis. Links to permitting and monitoring data in the PCS system have been established for analysis and assessment purposes.

- A technical committee was established to develop an implementation plan to utilize the new Watershed Management Units and watershed boundaries in the various reporting and planning programs. Water Quality Standards, the 303(d) list, the 208 Plan, and the 305(b) Report were targeted for this effort.

Water Quality Standards Program

Oklahoma's WQS are set forth under statutory authority of OWRB authorized under 82 O.S. § 1085.30. Under these statutes, OWRB "is required to set Water Quality Standards which are practical and in the best public interest and to classify the State's waters with respect to their best present and future uses. These WQS are designed to enhance the quality of the waters, to protect their beneficial uses, and to aid in the prevention, control and abatement of water pollution in the State of Oklahoma" (OWRB, 2006). The WQS have established designated beneficial uses and standards for all of Oklahoma's waters.

Oklahoma defines waters of the State to mean "all streams, lakes, ponds, marshes, watercourses, waterways, wells, springs, irrigation systems, drainage systems, and all other bodies or accumulations of water, surface and underground, natural or artificial, public or private, which are contained within, flow through, or border upon this State or any portion thereof 82 O.S. § 1084.2(3).

Much of the work developing WQS over the past three decades has been dedicated to the control of point source discharges through chemical-specific criteria and permit limits. Over the past five years, biological water quality criteria have also been pursued.

Potential uses of biocriteria, as they pertain to Oklahoma's WQS, are numerous and far-reaching. Upon completion, biocriteria and their implementation procedures should be incorporated into the OWRB Rules and into Oklahoma's Continuing Planning Process (CPP) document. They should then be used as an assessment tool.

The current biological thresholds will allow State agencies and others to consistently analyze the biological community in terms of the Fish and Wildlife Beneficial Use. These procedures will, for the first time, allow for consistent examination of biological communities with a minimum of subjectivity and judgment. Ongoing work in this area of biocriteria development will eventually provide Statewide coverage and a biological Use Support Assessment Protocols for all ecoregions in Oklahoma.

Candidate reference streams have been selected in the Ouachita Mountain, Arkansas Valley, Boston Mountains, Ozark Highlands, Central Irregular Plains, Central Oklahoma – Texas Plains, and Central Great Plains ecoregions.

Previous work has determined reference taxa for these ecoregions and these lists are currently being validated through thorough stream assessments. The details of the determination of Fish and Wildlife Propagation beneficial use support for wadable streams in the ecoregions listed above can be found at OAC 785:46-15-5 (OWRB, 2008):

Oklahoma will be able to monitor biological communities to determine the effectiveness of permit limits and the parameter-specific criteria they are based upon. Incorporation of biological monitoring and biocriteria to evaluate fish and wildlife beneficial use support will help reduce monitoring costs by eliminating otherwise required tests for metals, pesticides, and other toxic substances.

Point Source Control Program

Oklahoma's point source pollution control programs are administered and carried out by DEQ. DEQ administers both municipal and industrial dischargers and issues permits. DEQ is responsible for monitoring the dischargers to ensure compliance with permit limitations and conditions as well as to receive and review the permittee's self-monitoring data.

For industrial dischargers, DEQ relies on a two-step process for permit development. In the first step, minimum treatment level standards, based on the industry type, are established. These are termed "technology-based limits." The technology-based limits are evaluated to determine if a potential exists to violate the WQS. If the potential to violate the WQS exists, more stringent "water quality-based limits" will be selected for use in the permit.

Each permit specifies both monitoring and reporting requirements for the facility. The permit provides the effective dates of limits, parameters to be tested, applicable limits for each parameter, frequency of analysis, and sample type of monitoring. Monitoring results are summarized on a monitoring report form and submitted to DEQ according to the schedule in the permit. All Discharge Monitoring Reports (DMR) and reports from the permittee are reviewed and violations noted. The permittee's compliance is tracked using the Permit Compliance System (PCS). The administrative staff utilizes violation review criteria to screen for significant violations. This screening process assures that limited enforcement resources concentrate on the most significant violations. The following criteria are used to identify significant violations:

- Two or more excursions of 40% or more for inorganic and oxygen demanding pollutants during a six-month period.
- Two or more excursions of 20% or more for toxic pollutants during a six-month period.
- Non-reporting violations.
- Chronic violations, any violation of any monthly effluent limit for any four or more months in a six month period.
- Any effluent violation that causes or has potential to cause a water quality or human health problem.
- Permit schedule violations.
- Violations of enforcement orders
- Any unauthorized bypass, unpermitted discharge, or pass through of pollutants which may cause a water quality or human health problem.
- Construction or modification of sewage treatment works, Publicly Owned Treatment Works conveyance system or industrial wastewater impoundment, without a permit.

The criteria used for determining significant violations are based on the EPA's current policy, which is used to evaluate all major and minor permits under DEQ's jurisdiction.

Quality assurance strategies are used by DEQ to ensure that facilities comply with their permit. Field inspections are conducted on a regular basis with samples of the discharge collected for analyses. The Customer Assistance Division maintains the laboratory certification program. This program assures that industries follow all Quality Assurance and Quality Control methods when analyzing their effluent samples. All permits require that all analyses used to determine permit compliance be performed by a DEQ certified lab.

The limits for the permits are "water quality based" and are designed to protect the beneficial uses of the receiving stream. All permits are tracked through the State's Water Quality Management Plan. The plan is updated as needed. The updates to the Plan occur on a regular basis with the last full annual update to the Plan being in 1984.

Each permit is written for a single facility. Most facilities have only one discharge; however, some do have multiple discharges. The information found in each permit includes: latitude and longitude for the facility and/or its point of discharge; effective date(s) of the permit; limits; self-monitoring frequency and sampling type for each discharge point; etc. In addition, the permit also requires the permittee to prepare and submit monthly Discharge Monitoring Reports, which give a summary of the results of the self-monitoring. The Discharge Monitoring Reports are submitted to DEQ.

All Discharge Monitoring Reports from the permittee are reviewed with violations being noted. The permittee's compliance is then tracked using the PCS (an EPA computer database system). DEQ screens the DMR for significant violations. This screening process allows DEQ to concentrate its funding where it is needed most.

Quality Assurance/Quality Control practices are used by DEQ to ensure that publicly owned treatment works are complying with permit conditions. Regular inspections of publicly owned treatment works facilities are conducted by DEQ and/or EPA inspectors with samples of a facility discharge collected for analysis. DEQ requires that all operators and laboratory technicians of publicly owned treatment works be properly trained and certified.

Nonpoint Source Control Program

The OCC serves as the lead technical agency for the nonpoint source (NPS) control program except for: 1) oil and gas activities and petroleum storage tanks, which are under Corp. Comm. jurisdiction; 2) silviculture and pesticides which are under ODAFF jurisdiction; and 3) industrial and municipal stormwater which is under DEQ jurisdiction. The NPS program is a cooperative effort of state, federal and local agencies. Some of these agencies include OCC, DEQ, ODAFF, OWRB, Corp. Comm., local conservation districts, and local landowners. The management programs identify the state, federal and local agencies with responsibilities relative to the nonpoint source of pollution in question and outline a plan of action to reduce or eliminate those sources.

The 2014 revision of the NPS Management Program document outlines the State's stepwise pattern to address NPS water quality problems:

1. The process begins with assessment of physical, chemical, and biological health of waters of the state, including the watershed around them, to identify threats and impairments to the water resource, along with the cause, source, and extent of the problem. This assessment is described in detail in the Surface Water Assessment section of this report.

2. The second step involves prioritization and planning. The State maintains a Unified Watershed Assessment (UWA) to prioritize waterbodies listed as impaired in the current Integrated Report. The NPS Program, through the NPS Working Group, narrows this list to watersheds prioritized for NPS action. These NPS Priority watersheds are selected because sufficient historical information has been collected to identify the nature of the problem, corrective actions are most likely to be successful, the water quality problem primarily stems primarily from NPS-related causes and sources, and a significant portion of the watershed is in Oklahoma where the program could affect practices independent of the actions of another state. Following prioritization, a TMDL, Watershed Based Plan (in accordance with EPA's 9-key elements for watershed plans), or some other implementation plan is developed to reduce or remedy the problem.

3. The third step, implementation, involves the application of remedial efforts, such as best management practices (BMPs), educational activities, and other innovative efforts tailored to address NPS water quality pollution. There are three basic classes of BMPs: a) practices that reduce the pollutants available for transport by the normal rainfall/runoff process (changes in management), b) devices that reduce the amount of pollutants in the runoff before it is discharged to a surface water body (structural practices), and c) vegetative practices. Education is a critical portion of implementation and is accomplished through the Blue

Thumb program as well as through project-specific workshops, tours, and trainings. In general, the goal of most implementation projects is to achieve a level of change in an entire watershed. NPS programs rely on voluntary cooperation of landowners to implement projects, and landowners must understand the importance of their cooperation, as well as how participation can help them protect their assets and improve their return.

4. The fourth stage of the process involves evaluation of the program to determine its successes and failures and to recommend changes for the next round of the process. This involves post-implementation monitoring of the water resources and other evaluations of the success of the program (such as percent of priority areas with implemented practices or extent of education programs). Once this step has been completed and the outcome evaluated, the process can begin anew.

Current NPS projects are ongoing in the watersheds of Lake Eucha, Illinois River, Grand Lake, the North Canadian River between Canton Lake and Lake Overholser, and Lake Thunderbird in cooperation with several agencies including the Natural Resources Conservation Service (NRCS), ODAFF, OSRC, local conservation districts, and state universities. The OCC also oversees the implementation of the Conservation Reserve Enhancement Program (CREP). CREP is a $20.6 million cooperative conservation partnership agreement between USDA and Oklahoma. The program pays eligible landowners to establish and protect riparian buffers along streams for 10 – 15 years. Focused in Northeast Oklahoma, CREP will protect approximately 9,000 acres of riparian land in the Eucha/Spavinaw and Illinois River Watersheds. Key CREP partners include City of Tulsa's Metropolitan Utility Authority, OSRC, Conservation Districts in Adair, Cherokee, and Delaware counties, the USDA Farm Services Agency, NRCS, and EPA.

The ODAFF has authorities under the Oklahoma Concentrated Animal Feeding Operations (CAFO) Act, the Oklahoma Swine Feeding Operations (SFO) Act and the Registered Poultry Feeding Operations (RPFO) Act to enforce regulations governing the owners and/or operators of concentrated animal feeding operations, swine feeding operations and poultry feeding operations. The CAFO Act and SFO Act require all animal wastes and wastewaters from such operations be held in a total retention system preventing its discharge to the waters of the State and that waste generated in these operations be disposed of in a proper manner. The CAFO Act and SFO Act also require owners/operators to develop and implement Pollution Prevention Plans and Best Management Practices (BMPs) at these operations. Animal Waste Management Plans (AWMPs) could be used in place of BMPs for CAFOs facilities and Swine Waste Management Plans could be used in place of BMPs for SFOs. Similarly, the RPFO Act requires poultry feeding operations to develop and implement AWMPs in storing, handling and utilizing poultry litter. The SFO and RPFO Acts also require minimum education and training in waste management and related fields be obtained by owners/operators of these facilities. The Oklahoma Poultry Waste Applicators Certification (PWAC) Act requires the applicators be certified by ODAFF, and soil and litter tests be obtained by the applicators in determining application rates on any field. Applicators shall report to ODAFF each year the amounts of litter and locations where litter is applied. All four Acts require that land applications of either manure, litter or liquid animal waste be performed at agronomic rates. More rigorous requirements are imposed on land applications in the nutrient limited watersheds or in the areas designated as nutrient vulnerable ground water. The CAFO, SFO and RPFO Acts were designed to prevent and abate pollution from entering and contaminating any surface or groundwater. Under these Acts, the ODAFF is required to conduct annual inspections of these operations as well as investigate any complaints filed against such operations. The ODAFF can take regulatory action against a violator as deemed necessary.

The ODAFF has authorities under the Oklahoma Fertilizer Law to enforce the proper handling and storage of commercial fertilizers. The ODAFF licenses all bulk fertilizer storage facilities. All fertilizer materials shall be stored, applied, and handled in a manner, which prevents pollution of groundwater by minimizing losses of the fertilizer materials. This law is designed to prevent and abate the pollution of surface and groundwater within the State. Under this law, the ODAFF has the authority to conduct routine inspections of bulk storage facilities as well as investigate complaint received on a facility. The ODAFF can take regulatory action against a violator as deemed necessary.

The ODAFF has authorities under the Combined Pesticide Law and Rules to enforce the proper handling, storage, and use of commercial pesticides. These laws give the ODAFF authority to mandate regulations for the use of pesticides, how they are to be stored, and who can purchase them for application. These laws are designed to prevent or abate pollution of the waters of the State. Under these laws, the ODAFF must conduct routine inspections and investigates complaints on all facilities or individuals who store, sell, or apply pesticides. The ODAFF can take regulatory action against a violator as deemed necessary.

The ODAFF is also funding a yearly program to collect and properly dispose of unwanted pesticides. All Oklahoma farmers, ranchers, pesticide dealers, commercial applicators and non-commercial applicators are eligible to participate in this program. The ODAFF has contracted a licensed hazardous waste company to collect and properly dispose of waste pesticides in Oklahoma.

Under Oklahoma Forestry Codes, ODAFF's Forestry Services' water quality program monitors the effects of forest practices on water quality, administers silvicultural best management practices and provides training and education of landowners, loggers and forest managers.

Corp Comm has worked with the Integrated Petroleum Environmental Consortium (IPEC), a consortium of the University of Tulsa (TU), the University of Oklahoma (OU), Oklahoma State University (OSU), and the University of Arkansas (UA) at Fayetteville, and the Marginal Well Commission to develop and disseminate best management practices for the hundreds of small oil and gas operators in the State. IPEC and Well Commission meetings and workshops, along with the brochures, checklists, kits, videos, and other materials provided by IPEC, have helped producers reduce the environmental impacts from their oil and gas activities. In addition, Corp Comm has adopted and enforced rules on site operation, pollution containment BMPs, land application, and spill cleanup with site restoration that help to minimize non-point source impacts.

There are other nonpoint source projects that affect either a specific watershed area, or are Statewide projects that will affect several waterbodies. In addition, there are projects planned in other areas of concern other than agriculturally related problems. Continuation of this program is dependent largely on federal grant support.

Nonpoint Source Management Program Success Stories

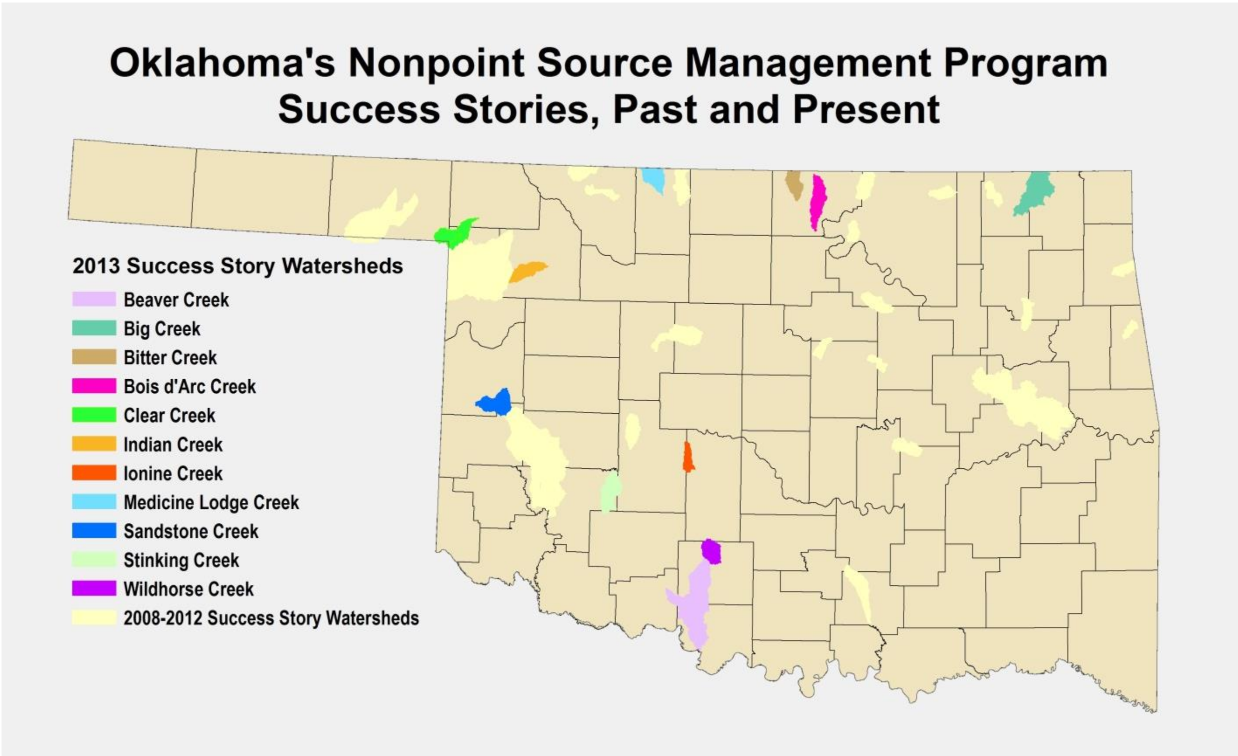
Currently, the OCC Water Quality Division ranks second in the nation for the number of nonpoint source program success stories published on the EPA's national nonpoint source website: http://www.epa.gov/owow/NPS/Success/ These 45 stories represent the results of cooperative efforts between the local NRCS, OCC, Conservation Districts, and landowners to achieve the voluntary, cost-shared implementation of best management practices (BMPs) to improve water quality. Stories were written for streams which showed improvement, as determined by assessment in accord with Oklahoma water quality standards, and were delisted from the 303(d) list for at least one water quality parameter which was likely due to BMP implementation. Streams showed improvements in turbidity, dissolved oxygen, fish community structure, and/or bacteria.

In general, BMPs focused on improving grazing land and cropland and protecting riparian areas. Typical BMPs included:

- Grazing Management
- Cross-fencing
- Alternative water supplies
- Supplemental hay planting
- Brush and weed management
- Nutrient management
- Heavy use area protection
- Conservation tillage (no-till, mulch till, strip till)
- Conservation crop rotations
- Waste storage facilities
- Contour farming (terraces, diversions, waterways)
- Riparian fencing

Funding for the implementation of these practices came from NRCS programs (federal funds), local cost-share (state funds), and from the landowners themselves. Funding for the monitoring that allowed documentation of the improvements was primarily from the EPA through the Section 319 Nonpoint Source Program.

FIGURE 4. OKLAHOMA NON-POINT SOURCE MANAGEMENT SUCCESS STORIES



Superfund Program

Historical hazardous waste problems did not fit into the regulatory hazardous waste system until the passage of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, or Superfund) of 1980. This act created a large scale national program to identify and remediate sites contaminated from historical hazardous waste problems and whose owners were no longer available or financially solvent to pay for the cleanup, or whose owners were no longer around. The term "Superfund" was coined to describe the source of funding for this program. Funding for remedial action was initially obtained from a national revolving fund. The fund obtained its monies through taxes paid on chemical feedstocks used in the manufacture of chemical products that were likely to become hazardous waste. This fund has not been reauthorized since 1996 and funding now relies on general appropriations from Congress. Superfund also established a mechanism to recover cleanup costs from potentially responsible parties.

DEQ's Superfund Program conducts and oversees pre-remedial and remedial activities on several Superfund sites. The Oklahoma Superfund Program relies on federal monies awarded through a cooperative agreement with EPA. There are thirteen sites in Oklahoma that are on the EPA National Priority List (NPL). EPA ranks sites for clean-up based on the actual or potential risks posed to human health or the environment.

DEQ's Voluntary Cleanup Program and Brownfield Redevelopment Programs have several large Superfund-like sites that are undergoing investigation and cleanup. In addition to these larger sites the Voluntary Cleanup Program has dozens of sites that are undergoing remediation for groundwater contamination that are not listed here. There are also many RCRA sites that are undergoing corrective action for groundwater contamination that are not listed here.

DEQ also has authority under 27A O.S. §2-7-123 for risk based remediations, and/or 27A O.S. §2-15-107 for Brownfields sites to place notices on property deeds of risk-based remediation and also allows for restrictions on certain uses, including the use of groundwater if appropriate. Some of the sites listed below have such notices and restrictions filed in their respective county land records.

Refer to Table 14, "Superfund, NPL, and Non-NPL Sites Impacting on Groundwater and Surface Water" for a listing of sites within Oklahoma.

TABLE 14. SUPERFUND, NPL, AND NON-NPL SITES IMPACTING ON GROUNDWATER AND SURFACE WATER

Sites	Legal	County	Contaminant of Concern	Groundwater Impacted (Yes/No)	Surface Water Impacted (Yes/No)
Tar Creek Mining Activities	R24E T29N S16-21 R24E T29N S29-32 R24E T28N S5-6 R23E T28N S05-08 R23E T28N S18-19 R23E T28N S30 R23E T29N S13-36 R22E T28N S01 R22E T28N S12-13 R22E T28N S24-25 R22E T28N S30 R22E T29N S13 R22E T29N S24 R22E T29N S25 R22E T29N S36	Ottawa	Acid Water Cadmium Iron Lead Sulfates Zinc	Boone Aquifer Yes Roubidoux Aquifer, yes (locally near Picher and Quapaw)	Tar Creek Yes

Sites	Legal	County	Contaminant of Concern	Groundwater Impacted (Yes/No)	Surface Water Impacted (Yes/No)
Sand Springs Petrochemical Complex Refinery/ Solvent Recycling	R11E T19N S13-14	Tulsa	Volatile Organic Compounds	Arkansas River Alluvium Yes	Arkansas River (receives discharges but no identifiable impacts)
Compass Municipal Landfill	R12E T19N S18	Tulsa	Benzene Bleaches Caustics Jet Fuel PCBs Pesticides Solvents	Not Applicable	Arkansas River No
Hardage-Criner Industrial Landfill	R04W T06N S24	McClain	Acids Alcohols Caustics Metals Pesticides Solvents	North Criner Creek Alluvium Yes	North Criner Creek Yes
Tenth Street Salvage Yard	R02W T12N S31	Oklahoma	PCBs	North Canadian Alluvium No	North Canadian River No
Tinker AFB Aircraft Maintenance	R02W T11N S14 R02W T11N S23	Oklahoma	Organic Solvents (TCE) Chromium Petroleum Fuels	Garber-Wellington Aquifer Yes	Soldier Creek Yes
Fourth Street Refinery	SE4 SEC35 T12N R3W & SW4 SEC36 T12N R3W	Oklahoma	Lead BTEX Volatile Organic Compounds	Garber-Wellington Aquifer Yes North Canadian Alluvium Yes	North Canadian River No identifiable impacts
Mosley Road Landfill Municipal Landfill	R02W T12N S21	Oklahoma	Volatile Organic Compounds	Garber-Wellington Aquifer Yes North Canadian Alluvium Yes	North Canadian River No

Sites	Legal	County	Contaminant of Concern	Groundwater Impacted (Yes/No)	Surface Water Impacted (Yes/No)
Double Eagle Refinery Refinery	SE4 SEC35 T12N R3W & SW4 SEC36 T12N R3W	Oklahoma	Lead BTEX Volatile Organic Compounds	Garber-Wellington Aquifer Yes North Canadian Alluvium Yes	North Canadian River No
Oklahoma Refining Co Refinery	R09W T05N S18-19	Caddo	Metals VOCs Petroleum Organics Aromatic Hydrocarbons	Rush Springs Aquifer Yes	Gladys Creek Yes
Kerr-McGee Cushing Refinery Refinery	R05W T18N S22&27	Payne	Acid Oil Sludge Heavy Hydrocarbons	Unconfined Aquifer Yes Vamoosa-Ada Aquifer No	Skull Creek Yes
Kerr-McGee Cleveland Refinery Refinery	R08E T21N S18	Pawnee	Petroleum Coke Asbestos Acid Sludges	Cedar Creek Alluvium Yes Vamoosa-Ada Aquifer Yes	Cedar Creek Yes
Blackwell Zinc Smelter	R01W T27N S21	Kay	Metals	Chikaskia River Alluvium Yes	Unnamed tributary of Chikaskia River Yes
National Zinc	R12E T26N S11	Washington	Metals	Not Applicable	Unnamed tributary of Eliza Creek Cleaned up
Ringling Gasoline Spill	NW4 Sec.35 T4S R4W	Jefferson	BTEX and TPH-GRO	Yes	No
Tulsa Fuels & Manufacturing Smelter	NE4 SE4 NE4 SEC 31 & SW4 NW4 SEC32 T22N R14E 1M	Tulsa	Metals	No	Unnamed drainages Yes (sediment only)
Hudson Refining Refinery	SW4 SEC33 T18N R05E & NE4 NW4 SEC04 T17N R05E 1m	Payne	Hydrocarbons metals	Vanoss Aquifer Yes	Wastewater Ponds On-Site Yes Skull Creek No

Sites	Legal	County	Contaminant of Concern	Groundwater Impacted (Yes/No)	Surface Water Impacted (Yes/No)
Duncan Refinery Refinery	R7W T1S S32	Stephens	Hydrocarbons	Garber Yes	Claridy Creek Yes
Collinsville Smelter Smelter	R14E T22N S32	Tulsa	Metals	No	Blackjack Creek Yes (sediment only)
U.S. Zinc Company Smelter	R13E T11N S6	Okmulgee	Metals	No	Yes
Coltec, Inc. Manufacturing	R13E T11N S3	Sequoyah	Solvent (PCE)	Boggy Formation Yes	No
Rab Valley Lumber	R25E T8N S15, S16	LeFlore	PAHs	Yes	Yes
Union Pacific Railroad	R7W T17N S14	Kingfisher	Carbon Tetrachloride	Yes	Yes
Okmulgee Refinery	R13E T13N S31 R13E T12N S6	Okmulgee	BTEX, Metals, PAHs	Yes	Yes
Imperial Refining Corporation	R2E T4S S20, S21	Carter	BTEX, Metals, PAHs	No	Wetlands Yes
Clinton-Sherman Industrial Airpark Airbase	R19W T10N S10-11 R19W T10N S14-15	Washita	Trichloro-ethylene (TCE)	Elk City Sandstone Aquifer Yes	Not Applicable
Dobson Ranch	NW4 SEC 17 T11N R26W IM	Roger Mills	Benzene	Ogallala Yes	No
Cornerstone Shopping Center	SE4 SEC16 T 12N R 4W approx 6 acres of West Park Addition to Oklahoma City	Oklahoma	Tetrachloro-ethene	Quaternary Terrace Deposits Yes	No

Sites	Legal	County	Contaminant of Concern	Groundwater Impacted (Yes/No)	Surface Water Impacted (Yes/No)
Oklahoma City Urban Renewal - Phase I	21.6 acres of the NW4 SEC 3 T11N R3W	Oklahoma	Hydrocarbons	Alluvium and Terrace Deposits Yes	No
Blackstar Performance	SE4 SEC25 T20N R8E & NE4 SEC25 T20N R8E	Pawnee	Chlorinated solvents	Tallant Formation Yes	No
OKC Solvent Plume	80 acres in NE/4 S27 T12N R4W & NW/4 S27 T12N R4W	Oklahoma	Chlorinated solvents	N. Canadian Terrace Deposits Yes	No
Compass Industries Landfill	R12E T9N SEC18 & NE4 SE4 SEC 13 T 19N R 11E	Tulsa	SVOC	Yes	Yes
Anadarko Petroleum	NW1/4 Sec4 T22N R6W	Garfield	Petroleum Hydrocarbons and metals	Yes (Terrace Deposits)	No
Michelin/BFG	N1/2 SW1/4 T28N R22E	Ottawa	VOC	Yes	No
Halliburton Osage Road	SE ¼ of Section 8 Township 1N and Range 7W	Stephens County	Perchlorate, Nitrate	Yes, in the Chickasha and Duncan Formations	No, continues to be monitored

Surface Water Assessment

Surface Water Monitoring Program

The two agencies primarily responsible for carrying out Oklahoma's surface water monitoring programs are the OCC and OWRB.

Brief Summary of Oklahoma Conservation Commission Monitoring Activities

The Oklahoma Conservation Commission (OCC) has an extensive and unique monitoring program. While OCC conducts several distinct types of monitoring activities, it is important to note that monitoring efforts are primarily focused on determining the extent, nature, and probable source(s) of non-point source (NPS) pollution. Following is a summary of types of monitoring activities OCC conducts across the State.

1. Ambient Monitoring
    a. Routine efforts to collect information about the physical, chemical, and biological characteristics of streams to determine status and trends
    b. Fixed station monitoring occurs at the same place over time to document status and trends. Through OCC's Rotating Basin Monitoring Program (RBMP), 250 sites are monitored for 24 months on a rotational basis every five years.
    c. Includes collection of physical, chemical, and biological data.
    d. Fulfillment of the Clean Water Act Section 319 mandate, "to monitor and assess the State's waters for the effects of NPS pollution."

2. Diagnostic Monitoring
    a. Usually occurs subsequent to ambient monitoring
    b. Involves more in-depth sampling to confirm or refute suspected NPS pollution problems, identify and pinpoint sources, and more accurately document causes and effects of specific problems
    c. May include land use assessment, modeling, more intensive water quality monitoring, and biological assessments

3. Implementation Monitoring
    a. Designed to determine the effects of best management practices (BMPs) on water quality
    b. Usually involves sampling before and after BMP implementation efforts
    c. May include physical, chemical, and/or biological assessments and usually involves collection of continuous flow weighted samples via automated sampling devices.

4. Reference Condition Monitoring
    a. Designed to determine what conditions a healthy waterbody should exhibit in order to determine if other waterbodies are polluted and to what extent
    b. Data collection ensures sufficient physical, chemical, and biological assessments to facilitate a ranking process for determination of high quality sites.
    c. Reference monitoring data will be made available to OWRB to help establish biological criteria as part of State Water Quality Standards

5. Volunteer Monitoring
    a. Statewide volunteer monitoring program designed to provide a continuing opportunity for water quality and environmental education.
    b. Volunteers are trained and certified for collection of select physical, chemical, and biological data used for basic assessment and general trend monitoring. OCC staff lead all biological collections at Blue Thumb volunteer sites, allowing this information to be used for waterbody assessments.

The OCC conducts other specialized types of monitoring, although rather infrequently and generally at the request of other agencies. Purposes for monitoring may include:

- Protection of endangered species
- Total maximum daily load (TMDL) development
- Fluvial geomorphology (establishing the relationship between stream shape, climate, and the stream's location in the watershed)
- Documentation of pre- and post-restoration projects to assess effects (e.g., bank restoration or stabilization, in-stream habitat improvement)
- Community assessments for delisting streams when existing data is deemed insufficient or ambiguous
- Investigation of fish kills

All OCC monitoring is conducted in accordance with EPA-approved Quality Assurance Project Plans (QAPPs). These QAPPs are subject to peer agency review and approval by the Office of the Oklahoma Secretary of Energy & Environment. OCC monitoring efforts are coordinated with other state and federal environmental agencies in order to maximize the use of state resources.

Brief Summary of Oklahoma Water Resources Board Monitoring Activities

OWRB conducts routine monitoring throughout the State. The major monitoring program is the Beneficial Use Monitoring Program (BUMP) out of which an annual report is generated and distributed to all State legislators. BUMP targets sites on lakes and streams in cooperation with DEQ, OCC, and other State agencies. Parameters are selected in order to establish the overall health of State waters and to discover ambient trends, develop TMDLs, and support development of Water Quality Standards. The primary purpose of the BUMP is to assess the beneficial use support status of State surface waters.

In addition to BUMP, OWRB conducts several special monitoring efforts across the State. Parameters, sites, and frequency of monitoring are established on a case-by-case basis for each of these programs. All are established under formal contracts with the various entities.

- Statewide and Regional Probabilistic Monitoring
  - OWRB has completed and reported the second and third Statewide streams probabilistic study in Oklahoma. The report has been submitted to DEQ for inclusion the State’s Integrated Report to fulfill OWRB’s 305(b) reporting requirement
  - OWRB embarks on a fourth and fifth Statewide stream study in 2013 and will complete in 2015 and 2017, respectively. As before, the study will encompass a 4-year span of all sized flowing waterbodies as well as subsidiary assessment of condition for smaller and larger waterbodies and three large ecoregion groupings within the state.
  - OWRB is completing work on the second Statewide lakes probabilistic study in Oklahoma. The report will be submitted to EPA in 2015 and results will be included in the State’s Integrated Report as necessary.
- Clean Lakes & Technical Studies
  - Eucha Lake
    - 319 NPS project installed 6,400 ft^2 of floating wetlands made from recycled plastic bottles
    - Assessing efficacy of floating wetlands to reduce the impact of nutria
  - Ft Cobb Lake
    - Established native aquatic plants in lacustrine fringe area in collaboration with the ODWC as part of a 319 NPS project
    - ODWC will maintain established founder colonies to assist with this long-term effort
  - Lake Thunderbird
    - Monitoring of lake to assess impact of installed SDOX system and determine additional actions to mitigate cultural eutrophication
    - Lake managers, COMCD, installed a liquid oxygen device to oxygenate the hypolimnion of the lake to improve raw drinking water quality through lowered organic content (algae growth) and more complete breakdown of detritus trapped in the hypolimnion
  - Ardmore City Lakes, Jean Neustadt; Scott King, Ardmore City and Mountain Lakes
    - Completed bathymetric/sedimentation surveys for al lakes
    - Complete firm yield analysis for incorporation into Ardmore’s long range planning process

    - Waurika Lake
        - Collected bathymetric data of raw water intake area for dredging to ensure water availability during extreme drought (low water) conditions
        - OWRB will perform post dredging bathymetry for verification
    - Lake Stanley Draper
        - OWRB has assisted the City of Oklahoma City to extirpate the invasive aquatic plant, Giant Reed *Phragmites australis*, from the shoreline reducing long term sedimentation, nutrient enrichment and aesthetics.
- Biological Assessments
    - Aimed at establishing biological criteria for inclusion in the Water Quality Standards
    - Combines physical, chemical, and biological measurements in a holistic approach
    - Are making condition assessments for fish, macroinvertebrates, and sestonic and benthic chlorophyll-α in flowing waters, as well as sestonic chlorophyll-α in lakes. Eventually, will make assessments for periphyton communities in flowing waters and zooplankton in lakes.

- Impaired Waterbody Monitoring – 303(d) List
    - Site-specific monitoring under various contracts with DEQ, OCC, and Oklahoma Corporation Commission
    - Aimed at verifying impaired waters listings and/or developing TMDLs
    - All monitoring activities are coordinated with the other state and federal agencies that collect water quality data in order minimize duplication of efforts.

<u>Brief Summary of Oklahoma Corporation Commission Monitoring Activities</u>

The Corporation Commission (Corp Comm) does five types of environmental monitoring:

1. Soil sampling at spill and other potential pollution case sites;
2. Well water sampling near spill and other potential pollution source sites (ground water impacts are discussed in the Ground Water Quality section);
3. Stream water sampling near spills, pits, purging wells, and other potential pollution sources;
4. Stream, and other surface water sampling in historic oilfield areas, to determine the overall impact of historical oilfield activity on the waters of the State; and
5. Sampling to evaluate the need for and propose watershed-specific revisions to surface Water Quality Standards.

Because sampling types 1-3 is usually done in response to a complaint, following a known spill, or because of a problem noticed by a field inspector, and historic oil and gas areas (type 4) are more likely to have pollution problems than unindustrialized areas, this data is biased toward the bad. Our sampling data is more likely to show water quality problems much more often than random sampling would.

Both the Petroleum Storage Tank and the Oil and Gas Conservation (Oil & Gas) Divisions within the Oklahoma Corporation Commission perform the first three types of sampling. Only Corp Comm Oil & Gas does the types of sampling listed in 4 and 5. These were partially grant (104b, 319h) funded but mostly State funded until 2005, when Corp Comm Oil & Gas, with assistance from the Oklahoma Conservation Commission, began an extensive grant-funded sampling and source identification project in several old oilfield areas with high salinity produced water in South-Central Oklahoma. The descriptions below cover **only** Oil and Gas Division water quality monitoring.

A. From 1998 through 2007, and occasionally since, the Oil and Gas Conservation Division has performed and working with partners on the type of water quality sampling listed above. Overall, the 7191 surface water samplings by Corp Comm and partners so far to determine stream water quality is:

- 1286 stream samples near oil & gas spill sites;
- 5460 surface water sampling events to evaluate overall stream quality in oilfield areas, and

- 445 stream sample events for watershed criteria, and to establish turbidity norms in the Lake Wister/Fourche Maline watershed.

This total includes 1,370 samples (approximately 10 per stream) collected and analyzed for Corp Comm Oil & Gas under the OWRB's Rotating BUMP program, and 1810 completed sampling events (plus 1045 dry/no access attempts) done by Conservation Commission personnel and paid for by Corp Comm Oil & Gas under the South Oklahoma 104b grant, plus some limited data provided to Corp Comm by others (e.g. 44 samples collected by the University of Tulsa in oilfield areas for the Seminole Nation). The rest of the samples were State funded, collected by Corp Comm Oil & Gas personnel.

A visual check for petroleum is also made every time a stream is sampled.

B. In 2002 and 2003 Corp Comm Oil & Gas oversaw a project to gather typical mineral levels in streams in several watersheds. Corp Comm hoped to use this data, combined with other stream data already collected, to help determine appropriate watershed-based State Water Quality Standards in several areas across the State. Conservation Commission staff collected most of the water samples, with Corp Comm Oil & Gas paying for the analyses with a small 104b grant and managing the data.. This includes

- 373 samples from approximately 90 streams in 25 watersheds collected by Conservation Commission and analyzed with Corp Comm Oil & Gas's funds;
- 87 BUMP samples collected in multiple streams for Corp Comm by OWRB in one additional watershed.

C. From 2005 until 2008 Corp Comm worked on the South Central Oklahoma Project in a 33X33 mile area (over 1000 square miles) in Grady, Garvin, Stephens, and Carter counties. For 18 months every accessible location where a stream crossed a road was periodically sampled by Oklahoma Conservation Commission personnel using calibrated field meters for pH, TDS, and conductivity. In 337 of the 1810 water monitoring events water samples were also collected and sent to a lab for complete analysis of all anions and cations. This data was used to determine that 59 permanently flowing streams and smaller tributary creeks in the old oilfield areas evaluated had significantly elevated salinity levels. A Helicopter EM survey was also done in part of this area to determine groundwater impacts and surface water/groundwater interaction – see the Groundwater Quality section of this report for more detail.

D. The sampling results from all of the different surface water sampling projects, are considered in making stream impairment/attainment decisions for the Integrated Report, including the 303(d) impaired stream listings (Category 5).

Corp Comm Oil & Gas is also involved with alternative measures to TMDLs for applicable waterbodies in Category 5. Examples of these include such measures as:

- the cleanup of a historic site that is leaking pollutants into ground and/or surface water causing impairment, or
- a finding of irreversible man-induced impacts in a waterbody, with recommendations for changes in the listed beneficial uses until impacts are reduced.

Assessment Methodology

The following methodologies, along with the procedures described in Figure 4 near the end of this section, shall be used to determine the attainment status of a waterbody's designated beneficial uses and its subsequent categorization in this Integrated Water Quality Report.

A waterbody that is listed on the State's current 303(d) list may only be placed in category 1,2, or 3 of the Integrated Report for "good cause" or if it is demonstrated that new data or information indicate that the waterbody is attaining its designated beneficial uses. "Good cause" shall mean that the State will provide a reasonable basis for the recommendation such as flaws in the original analysis that led to the water being listed; more recent or accurate data; more sophisticated water quality modeling; changes in conditions (e.g., new control equipment or elimination of discharges); or data is insufficient or non-existent to assess that all uses are met and the water should more appropriately be in Category 2 or 3.

Waterbodies in categories 2 & 3 will be prioritized in a manner similar to the category 5 waterbodies. A monitoring schedule will be included for categories 2 & 3 as part of the Integrated Report. Waterbodies included on the most recent 303(d) list will receive the highest priority for future monitoring.

Use Support Assessment Protocol

These procedures closely follow those set forth in the State's Use Support Assessment Protocol (USAP), which can be found in OAC 785:46-15. Where the USAP is silent, this listing methodology should be used. Where there are discrepancies between this methodology and the USAP, the USAP controls.

Beneficial Uses

The Listing Methodology is categorized into beneficial uses. Each beneficial use has a procedure for determining attainment of that use based on various kinds of biological, chemical, and historical data. The result of applying this methodology for any given beneficial use must be one of three choices: "attained", "not attained," and "not enough data to make a determination."

Some beneficial uses have procedures for several different types of data, all of which must be determinable – unless otherwise specified – in order to determine that the beneficial use is attained. Otherwise, the attainment decision must be designated "not enough data to make a determination."

Data Requirements

The data used to make a determination must meet various quantity, quality, spatial, and temporal requirements in order to satisfy the attainment procedures. The following general requirements apply unless otherwise specified in the use-specific procedures that follow. If neither an "attained" nor "not attained" determination can be made, then the overall determination for that beneficial use or subcategory shall be "not enough data to make a determination."

Spatial

- In general, stream sampling locations should take into consideration existing data, spatial distribution of monitoring sites, sources of pollution, and major hydrological features such as tributaries and dams.
- Non-wadable stream samples may represent a maximum of 25 stream miles.
- Wadable stream samples may represent a maximum of 10 stream miles.
- Lake samples may represent a maximum of 250 acres per sample. Arms or portions of lakes may be treated separately from the main body of a lake.
- Samples may not be taken within regulatory mixing zones.

Temporal

- Sampling must represent seasonal variation. Temporal bias should be avoided.
- Multiple samples for a parameter collected on the same stream segment on the same date will be aggregated into one average value representative of the stream condition on that date. This sample aggregation is performed to prevent temporal bias.
- Stream data older than five (5) years should not be used to make use attainment determinations unless insufficient data exists for the previous five (5) year period.

- Lake data older than ten (10) years should not be used to make use attainment determinations unless insufficient data exists for the previous ten (10) year period.

Quantity

- For streams, a minimum of ten (10) samples is required to determine use attainment for parameters such as DO, pH, temperature, coliform bacteria, dissolved solids, and salts.
- For lakes of more than 250 surface acres, a minimum of twenty (20) samples is required to determine use attainment for parameters such as DO, pH, temperature, coliform bacteria, chlorophyll-α, and dissolved solids. For lakes of 250 surface acres or less, a minimum of ten (10) samples is required.
- For toxicants, a minimum of five (5) samples is required to determine use attainment.
- For any type of sample, if existing samples already assure a "not attained" determination, the minimum sample quantity requirement does not apply.

PQLs

Criteria above PQL

If sample values are below the PQL (Practical Quantitation Limit) for a parameter whose criterion is above the PQL, appropriate nonparametric statistical measures shall be used to determine the reporting value.

For waterbodies identified as impaired on the current Integrated Report, if sample values are nondetectable for a parameter whose criterion is above the PQL, then such value shall be deemed to be one-half (1/2) of the parameter PQL.

All sample values that are above the PQL shall be the reported values.

Criteria below PQL

If sample values are below the PQL for a criterion which is less than one-half (1/2) of the PQL, then the values shall be deemed to be zero (0) until the first test result above the PQL appears. After that time, sample values which are below the PQL shall be deemed to be equal to the criterion value until four (4) subsequent contiguous samples are shown to be below the PQL. Any subsequent sample values which are nondetectable may be treated as zero (0) until the next test result appears above the PQL.

For those parameters whose criteria are at least two (2) orders of magnitude below the PQL, evidence considered with respect to assessment of use support shall include fish tissue analysis, biological community analysis, biological thresholds wherever available, or other holistic indicators which are appropriate for the beneficial use in question.

If sample values are below the PQL for a criterion which is greater than or equal to one-half (1/2) of the PQL but less than the PQL, then the values shall be deemed to be one-half (1/2) of the criterion value until the first test result above the PQL appears. After that time, sample values which are below the PQL shall be deemed to be equal to the criterion value until four (4) subsequent contiguous samples are shown to be below the PQL. Any subsequent sample values which are nondetectable may be treated as equal to one-half (1/2) of the criterion value until the next test result appears above the PQL.

For waterbodies identified as impaired in the current Integrated Report, if sample values are nondetectable for a parameter whose criterion is below the PQL, then such value shall be deemed to be one-half (1/2) of the criterion value.

All sample values that are above the PQL shall be the reported values.

Magnitude of Exceedance

- For toxicants, if two or more samples exceed water quality criteria or screening levels by two orders of magnitude or more, the associated beneficial use is determined to be "not attained."

- For DO, if more than two samples in a stream are below 2 mg/L in a given year, the Fish & Wildlife Propagation beneficial use is determined to be "not attained."

Quality Assurance

Data collected for purposes of use support assessment shall be collected using documented programmatic quality assurance and quality control methods substantially in accordance with those required by "EPA Requirements for Quality Assurance Project Plans", EPA publication no. EPA/240/B-01/003 (March 2001).

The methods used shall include protections for sample integrity and the documentation of details on analysis methodologies.

Default Protocol

This method for determining beneficial use attainment should be used where another, more specific method is not provided.

Short Term Average Parameters

Short term average parameters are based on exposure periods of less than seven days, such as sample standards (agriculture beneficial use) and turbidity.

A beneficial use is considered *attained based on the default protocol for a given short term average parameter* if:

10% or fewer of the samples exceed the appropriate screening level or water quality criterion

or

the determination using the default protocol yields "fully supporting but threatened" and the threat will not yield a determination of other than fully supporting within two years of the determination.

A beneficial use is considered *not attained based on the default protocol for a given short term average parameter* if:

greater than 10% of the samples exceed the appropriate screening level or water quality criterion

or

the determination using the default protocol yields "fully supporting but threatened" and the threat will yield a determination of other than fully supporting within two years of the determination.

Long Term Average Parameters

Long term average parameters are based on exposure periods of seven days or longer, such as yearly mean standards (agriculture beneficial use) and fish consumption water column numerical criteria.

A beneficial use is considered *attained based on the default protocol for a given long term average parameter* if:

each 2-year rolling average of the sample results does not exceed the long term average criterion or screening level

or

the determination using the default protocol yields "fully supporting but threatened" and the threat will not yield a determination of other than fully supporting within two years of the determination.

A beneficial use is considered *not attained based on the default protocol for a given long term average parameter* if:

any 2-year rolling average of the sample results exceeds the long term average criterion or screening level

or

the determination using the default protocol yields "fully supporting but threatened" and the threat will yield a determination of other than fully supporting within two years of the determination.

Fish & Wildlife Propagation (F&WP)

The methodology for the Fish & Wildlife Propagation (F&WP) beneficial use consists of eight types of data, each with its own attainment methodology.

The F&WP beneficial use is considered *attained* if:

in the absence of biological data, all six *chemical* methodologies (DO, Toxicants, pH, Turbidity, Oil & Grease, and Toxicants Not Assessed & Not Likely to Occur or Violate Criteria) result in a determination of *attained*

or

in the absence of adequate data for ***all six*** *chemical data types*, the biological data methodology results in a determination of *attained*.

The F&WP beneficial use is considered *not attained* if ***any*** of the eight data type methodologies result in a determination of *not attained*.

Dissolved Oxygen (DO)

Streams

A minimum of ten (10) samples is required to make an attainment determination.

The F&WP beneficial use is considered *attained with respect to dissolved oxygen* if 10% or fewer of the samples from a waterbody have a DO concentration of less than:

- 4.0 mg/L from April 1 - June 15 (3.0 mg/L from June 16-March 31) for habitat limited aquatic communities (HLAC)
- 6.0 mg/L from April 1 - June 15 (5.0 mg/L from June 16 – March 31) for warm water aquatic communities (WWAC)
- 7.0 mg/L from March 1 - May 31 (6.0 mg/L for the remainder of the year) for trout fisheries and cool water aquatic communities (CWAC)

The F&WP beneficial use is considered to be *undetermined* if the sample results show:

- More than 10% of samples are less than 6.0 mg/L from April 1 – June 15 (5.0 from June 16 – October 15) *and* 10% or fewer of the samples are less than 5.0 mg/L from April 1 – June 15 (4.0 from June 16 – October 15) for warm water aquatic communities (WWAC)
- More than 10% of samples are less than 7.0 mg/L from March 1 – May 31 (5.0 from June 1 – October 15) *and* 10% or fewer of the samples are less than 5.0 mg/L from March 1 – May 31 (4.0 from June 1 – October 15) for trout fisheries and cool water aquatic communities (CWAC).

The F&WP beneficial use is considered *not attained with respect to dissolved oxygen* if more than 10% of the samples from a waterbody have DO concentrations less than the criteria listed below or if more than 2 samples in a given year are below 2 mg/L.

- 4.0 mg/L from April 1 – June 15 (3.0 from June 16 – March 31) for habitat limited aquatic communities (HLAC)
- 5.0 mg/L from October 16 – June 15 (4.0 mg/L from June 16 – October 15) for warm water aquatic communities (WWAC)
- 5.0 mg/L from June 1 – Oct 15 (6.0 mg/L during the remainder of the year) for trout fisheries and cool water aquatic communities (CWAC)

Lakes

For lakes or arms of 250 acres or less, a minimum of ten (10) samples is required to make an attainment determination. For lakes or arms of greater than 250 acres, a minimum of twenty (20) samples is required.

The Warm Water Aquatic Community subcategory of the Fish and Wildlife Propagation designated use for a lake shall be deemed to be attained with respect to dissolved oxygen if both the Surface Criteria and the Water Column Criteria listed below are satisfied. If either the Surface or Water Column criteria produce an undetermined result, the lake beneficial use will be considered *undetermined* with respect to dissolved oxygen. If either the Surface or Water Column criteria produce a result of not attained, the Fish and Wildlife Propagation designated use will be considered *not attained* with respect to dissolved oxygen.

Surface Criteria for WWAC Lakes

The F&WP beneficial use is considered *attained with respect to dissolved oxygen* if:

10% or less of the samples from the epilimnion during periods of thermal stratification, or the entire water column when no stratification is present, are less than 6.0 mg/L from April 1 – June 15 (5.0 mg/L during the remainder of the year).

The F&WP beneficial use is considered *undetermined with respect to dissolved oxygen* if:

More than 10% of the samples from the epilimnion during periods of thermal stratification, or the entire water column when no stratification is present, are less than 5.0 mg/L from June 16 through October 15 (6.0 mg/L from April 1 – June 15)

and

10% or less of the samples are less than 4 mg/L from June 16 through October 15 (5.0 mg/L from April 1 – June 15),

The F&WP beneficial use is considered *not attained with respect to dissolved oxygen* if:

More than 10% of the samples from the epilimnion during periods of thermal stratification, or the entire water column when no stratification is present, are less that 4.0 mg/L from June 16 – October 15 (5.0 mg/L during the remainder of the year).

Water Column Criteria for WWAC Lakes

The F&WP beneficial use is considered *attained with respect to dissolved oxygen* if:

Less than 50% of the lake volume has a DO concentration below 2.0 mg/L

or

If no volumetric data is available, 50% or less of the water column of all sample sites in the lake have a DO concentration below 2.0 mg/L.

The F&WP beneficial use is considered *undetermined* with respect to dissolved oxygen if:

50% or more, but not greater than 70%, of the lake water column at any sample site has a DO concentration of less than 2.0 mg/L

The F&WP beneficial use is considered *not attained with respect to dissolved oxygen* if:

50% or more of the water volume has a DO concentration of less than 2.0 mg/L

or

If no volumetric data is available, more than 70% of the water column at any given sample site has a DO concentration of less than 2 mg/L.

Toxicants

A minimum of five (5) samples is required to make an attainment determination.

The following screening values shall be used to make attainment decisions for toxicants:

- the acute and/or chronic criteria for a given toxicant, as described in Appendix G, Table 2 of the Oklahoma Water Quality Standards, OAC 785:45
- the chronic ammonia toxicity value shown in Table 15 corresponding to the stream pH and temperature at the time of sampling

For metals, preference shall be given to attainment decisions based on dissolved metals in accordance with the procedures specified in OAC 785:46-15-5(h).

Acute Effects

The F&WP beneficial use is considered *attained with respect to an individual toxicant* if no more than one (1) of the samples have concentrations of a toxicant that exceed the acute criterion or screening value for that toxicant.

The F&WP beneficial use is considered not attained with respect to an individual toxicant if more than one (1) of the samples have concentrations of a toxicant that exceed the acute criterion or screening value for that toxicant.

Chronic Effects

The F&WP beneficial use is considered *attained with respect to an individual toxicant* if:

not more than one (1) of the samples have concentrations of a toxicant that exceed the chronic criterion or screening value for that toxicant

or

not more than 10% of the samples have concentrations of a toxicant that exceed the chronic criterion or screening value for that toxicant

The F&WP beneficial use is considered *not attained with respect to an individual toxicant* if more than 10% of the samples have concentrations of a toxicant that exceed the chronic criterion or screening value.

TABLE 15. TEMPERATURE- AND pH-DEPENDENT SCREENING VALUES FOR AMMONIA

	Temperature (°C)									
pH	0	14	16	18	20	22	24	26	28	30
6.5	6.67	6.67	6.06	5.33	4.68	4.12	3.62	3.18	2.80	2.46
6.6	6.57	6.57	5.97	5.25	4.61	4.05	3.56	3.13	2.75	2.42
6.7	6.44	6.44	5.86	5.15	4.52	3.98	3.50	3.07	2.70	2.37
6.8	6.29	6.29	5.72	5.03	4.42	3.89	3.42	3.00	2.64	2.32
6.9	6.12	6.12	5.56	4.89	4.30	3.78	3.32	2.92	2.57	2.25
7.0	5.91	5.91	5.37	4.72	4.15	3.65	3.21	2.82	2.48	2.18
7.1	5.67	5.67	5.15	4.53	3.98	3.50	3.08	2.70	2.38	2.09

7.2	5.39	5.39	4.90	4.31	3.78	3.33	2.92	2.57	2.26	1.99
7.3	5.08	5.08	4.61	4.06	3.57	3.13	2.76	2.42	2.13	1.87
7.4	4.73	4.73	4.30	3.78	3.32	2.92	2.57	2.26	1.98	1.74
7.5	4.36	4.36	3.97	3.49	3.06	2.69	2.37	2.08	1.83	1.61
7.6	3.98	3.98	3.61	3.18	2.79	2.45	2.16	1.90	1.67	1.47
7.7	3.58	3.58	3.25	2.86	2.51	2.21	1.94	1.71	1.50	1.32
7.8	3.18	3.18	2.89	2.54	2.23	1.96	1.73	1.52	1.33	1.17
7.9	2.80	2.80	2.54	2.24	1.96	1.73	1.52	1.33	1.17	1.03
8.0	2.43	2.43	2.21	1.94	1.71	1.50	1.32	1.16	1.02	0.897
8.1	2.10	2.10	1.91	1.68	1.47	1.29	1.14	1.00	0.879	0.773
8.2	1.79	1.79	1.63	1.43	1.26	1.11	0.973	0.855	0.752	0.661
8.3	1.52	1.52	1.39	1.22	1.07	0.941	0.827	0.727	0.639	0.562
8.4	1.29	1.29	1.17	1.03	0.906	0.796	0.700	0.615	0.541	0.475
8.5	1.09	1.09	0.990	0.870	0.765	0.672	0.591	0.520	0.457	0.401
8.6	0.920	0.920	0.836	0.735	0.646	0.568	0.499	0.439	0.386	0.339
8.7	0.778	0.778	0.707	0.622	0.547	0.480	0.422	0.371	0.326	0.287
8.8	0.661	0.661	0.601	0.528	0.464	0.408	0.359	0.315	0.277	0.244
8.9	0.565	0.565	0.513	0.451	0.397	0.349	0.306	0.269	0.237	0.208
9.0	0.486	0.486	0.442	0.389	0.342	0.300	0.264	0.232	0.204	0.179

pH

A minimum of ten (10) samples is required to make an attainment determination.

The F&WP beneficial use is considered *attained with respect to pH* if 10% or fewer of the samples fall outside the screening range of 6.5 (minimum) and 9.0 (maximum).

The F&WP beneficial use is considered *not attained with respect to pH* if more than 10% of the samples fall outside the screening range of 6.5 (minimum) and 9.0 (maximum).

Biological Data

Following are two stand-alone methods for determining impairment based on biological samples—one for benthic macroinvertebrates (BMI) and another for fish. Each acts independent of the other because of the availability of separate cause codes for bioassessments. A cause code does exist for a combined bioassessment, but that particular scenario is not addressed in this methodology. Oklahoma has implemented narrative biocriteria for fish in its Use Support Assessment Protocols (OAC 785:46-15-5(i)), and these biocriteria are included as part of the assessment tool outlined below. However, the same section (OAC 785:46-15-5(i)(1)) states "If data demonstrate that an assemblage of fish or macro invertebrates from a waterbody is significantly degraded, according to 785:45-5-12(f)(5), from that expected for the subcategory of Fish and Wildlife Propagation designated in OAC 785:45 for that waterbody, then that subcategory may be deemed by the appropriate State environmental agency to be not supported." Because of this, it is imperative that a method be developed to assess the large of amount of BMI data collected to date and in the future. Also, it is important to utilize fish data across the State, when the fish biocriteria is either inconclusive (i.e., "undetermined") or unavailable in a particular ecoregion or for a particular aquatic life designation within a promulgated ecoregion. For this reason an alternative fish assessment method has been developed and included in the following methodology. However, the Oklahoma biocriteria trumps the alternative method whenever it returns an assessment of attaining or not attaining.

Biological criteria have been established for various ecoregions in Oklahoma under OAC 785:46-15-5 (see Figure 4). These biocriteria must be referenced when making Fish and Wildlife beneficial use attainment determinations for fish in accordance with method below. OAC 785:46 Appendix C Index of Biological Integrity should be used for these ecoregions. This methodology is only applicable to wadable streams.

For waterbodies where no biological data is available, a resulting determination of "*attained*" with respect to all six chemical data type methodologies (DO, pH, Toxicants, Turbidity, Oil & Grease, and Toxicants Not Assessed & Not Likely to Occur or Violate Criteria) may serve to determine attainment of the F&WP beneficial use.

For waterbodies where *only* biological data is available, a determination of *"attained"* with respect to biological assessment(s) (in accordance with method below) may serve to determine attainment of the F&WP beneficial use. Determinations of attainment of F&WP for both/either fish and/or benthic macroinvertebrates may be made in accordance with the following methods:

Assessment of F&WP Beneficial Use with Fish Collection Data

- Data requirements: Fish collections must be made in accordance with methods outlined in OWRB Technical Report 99-3, Oklahoma Conservation Commission Standard Operating Procedures (SOPs), Oklahoma Water Resources Board SOPs or equivalent and collected under an EPA approved Quality Assurance Project Plan. Collections should be made during a defined seasonal index period (index) in flowing water. A maximum of 5 collections are allowed for assessment determination for the reporting period (1 index period per year, 5 year reporting period).

  Definitions:

  - **Collection** – all fish obtained from a single site on a given date.
  - **Index** – one seasonal period prescribing defined temporal limits for collection. (Late Spring – Early Fall index – May 15-October 31).

- Collections must be completely enumerated and identified to species. Taxonomic identifications should be performed using keys contained in The Fishes of Oklahoma, The Fishes of Arkansas, or The Fishes of Missouri. Adequate voucher samples should be maintained through specimen collections and/or photo-documentation per SOPs in Section 1.

- Collections must be analyzed using an Index of Biotic Integrity (IBI) approach (EPA, 1989, 1999) comprised of the seven following metrics: number of species, number of sensitive benthic species, number of sunfish species, number of intolerant species, proportion tolerant individuals, proportion insectivorous cyprinid individuals, proportion individuals as lithophilic spawners. The metrics must be derived and scored for each sample in accordance with methods outlined in EPA's Rapid Bioassessment Protocol (EPA 1989 and 1999) (see Table 16). Consult ecoregion reference metric scores (available from OWRB or OCC Water Quality Division offices) as necessary to facilitate scoring process. This method will be known as "OKIBI".

TABLE 16. MATRIX TO DETERMINE METRIC SCORES FOR EACH SAMPLE OF FISH

Metrics	5	3	1
Number of species*	>67%	33-67%	<33%
Number of sensitive benthic species*	>67%	33-67%	<33%
Number of sunfish species*	>67%	33-67%	<33%
Number of intolerant species*	>67%	33-67%	<33%
Proportion tolerant individuals**	<10%	10-25%	>25%
Proportion insectivorous cyprinid individuals**	>45%	20-45%	<20%
Proportion individuals as lithophilic spawners**	>36%	18-36%	<18%

* Sample metric divided by the reference metric for the applicable ecoregion
** Score based on actual value

1. Metric scores for each collection must then be summed to compute a "total OKIBI score." Scores for multiple collections made during the same index for a given year must be averaged to render a single per year score. Total OKIBI scores will then be compared to reference OKIBI scores (available from OWRB or OCC Water Quality Division offices) for the appropriate ecoregion in order to determine final fish support status (Table 17) (adapted from EPA RBP, 1989):

TABLE 17. BIOLOGICAL CONDITION AND ASSOCIATED SUPPORT STATUS BASED UPON FISH COLLECTIONS

% of Reference OKIBI score	Biological Condition Category	Sample Support Status
>80%	Not impaired	Attaining
50-80%	Possible impairment to no impairment	Undetermined
<50	Impaired	Not Attaining

2. Overall fish support status for the OKIBI is determined considering support status of all collections obtained within the reporting period as follows:
   a. If only one sample was collected - support status stands as called
   b. If two or more samples were collected:
      - Determine support status based on majority
      - In instances when no majority exists, the final result is undetermined

3. Use Table 18 to determine the final Fish and Wildlife Propagation (FWP) beneficial use assessment for fish. In the following table, fish biocriteria that have been promulgated in Oklahoma's USAP are referred to as OKBIOCRIT, while the method outlined in this document is referred to as OKIBI. *You must determine an OKBIOCRIT result for all collections where applicable. The OKIBI can only be used when the OKBIOCRIT returns an undetermined result or is not promulgated in rule for a particular ecoregion or aquatic life tier.*

TABLE 18. FINAL FWP USE ASSESSMENT BASED UPON FISH COLLECTIONS

OKBIOCRIT Result	OKIBI Result	Final Fish Assessment
Not Available	Attaining	Attaining
Not Available	Not Attaining	Not Attaining
Not Available	Undetermined	Undetermined
Undetermined	Attaining	Attaining
Undetermined	Not Attaining	Not Attaining
Undetermined	Undetermined	Undetermined
Attaining	Undetermined	Attaining
Not Attaining	Undetermined	Not Attaining

Assessment of F&WP Beneficial Use with Benthic Macroinvertebrate Data

1. Data requirements: Macroinvertebrate collections must be made in accordance with methods outlined in OWRB Technical Report 99-3, Oklahoma Conservation Commission (OCC) Standard Operating Procedures (SOPs), Oklahoma Water Resources Board (OWRB) SOPs or equivalent and collected under an EPA approved Quality Assurance Project Plan. Collections should be made during defined seasonal index periods (index) in flowing water and target best available habitats in the following order of importance: rocky riffles, streamside root masses, and woody debris. A minimum of four macroinvertebrate samples (collected over at least a two year period) is required for assessment. A maximum of 10 collections are allowed for the reporting period (2 index periods per year, 5 year reporting period).

   Definitions:

   - **Sample** – macroinvertebrates resulting from a single habitat type (riffle, vegetation, wood) from a single site on a given date.
   - **Collection** – all samples obtained from a single site on a given date. A single collection may include up to three samples, one from each habitat type.

- **<u>Index</u>** – one of two seasonal periods prescribing defined temporal limits for collection. (Summer index – June 1-September 15; Winter Index – January 1-March 15th).

2. Samples must be picked in accordance with EPA approved SOPs to achieve either a 100 or 300 organism sub-sample to be sent to professionals for identification to genus (when possible). Taxonomic identifications should be performed using keys by Merritt and Cummins, Pennak, or other regional guides with justification.

3. Samples must be analyzed using an Index of Biotic Integrity (IBI) approach (EPA, 1989, 1999) comprised of the six following metrics: total number of taxa, number of EPT taxa, proportion EPT taxa, proportion dominant two taxa, modified Hilsenhoff Biotic Index (HBI), and Shannon Diversity. The metrics must be derived and scored for each sample (e.g., summer-riffle, winter-wood) in accordance with methods outlined in EPA's Rapid Bioassessment Protocol (EPA 1989 and 1999) (see Table 19). Consult ecoregion reference metric scores (available from OWRB or OCC Water Quality Division offices) as necessary to facilitate scoring process.

TABLE 19. MATRIX TO DETERMINE METRIC SCORES FOR EACH SAMPLE OF MACROINVERTEBRATES

Metrics	6	4	2	0
Taxa Richness*	>80%	60-80%	40-60%	<40%
Modified HBI**	>85%	70-85%	50-70%	<50%
EPT/Total***	>30%	20-30%	10-20%	<10%
EPT Taxa*	>90%	80-90%	70-80%	<70%
% Dominant 2 Taxa***	<20%	20-30%	30-40%	>40%
Shannon-Weaver***	>3.5	2.5-3.5	1.5-2.5	<1.5

* sample metric divided by the reference metric for the applicable ecoregion

** reference metric value for the applicable ecoregion divided by the sample metric value

***score based on actual value

4. Metric scores for each sample must then be summed to compute a "total IBI score." Scores for multiple collections made during the same index for a given year must be averaged to render a single index-habitat score per year (e.g., only one score for summer-riffle or winter-wood per year). Total IBI scores will then be compared to reference IBI scores (available from OWRB or OCC Water Quality Division offices) for the appropriate index-habitat and ecoregion to determine final macroinvertebrate support status (Table 20) (adapted from the EPA RBP, 1989). If the macroinvertebrate sample was made as part of a probabilistic monitoring project use Table 19 to determine sample support status.

TABLE 20. BIOLOGICAL CONDITION & ASSOCIATED SUPPORT STATUS BASED UPON MACROINVERTEBRATE SAMPLES

% of Reference IBI score	Biological Condition Category	Sample Attainment Status
>80%	Non-impaired	Attaining
50-80%	Possible impairment to no impairment	Undetermined
<50	Impaired	Not attaining

TABLE 21. BIOLOGICAL CONDITION & ASSOCIATED SUPPORT STATUS BASED UPON PROBABILISTIC MACROINVERTEBRATE SAMPLES

% of Reference IBI score	Biological Condition Category	Sample Attainment Status
>85%	Non-impaired	Attaining
40-85%	Possible impairment to no impairment	Undetermined
<40	Impaired	Not attaining

5. With support status of samples determined, render macroinvertebrate support status for each **collection** as follows:

a. If a riffle sample was collected, use the support status of the riffle sample to represent the collection.

b. If riffle sample status is "undetermined," then the support status of the collection will be determined by the better of vegetation or wood scores.

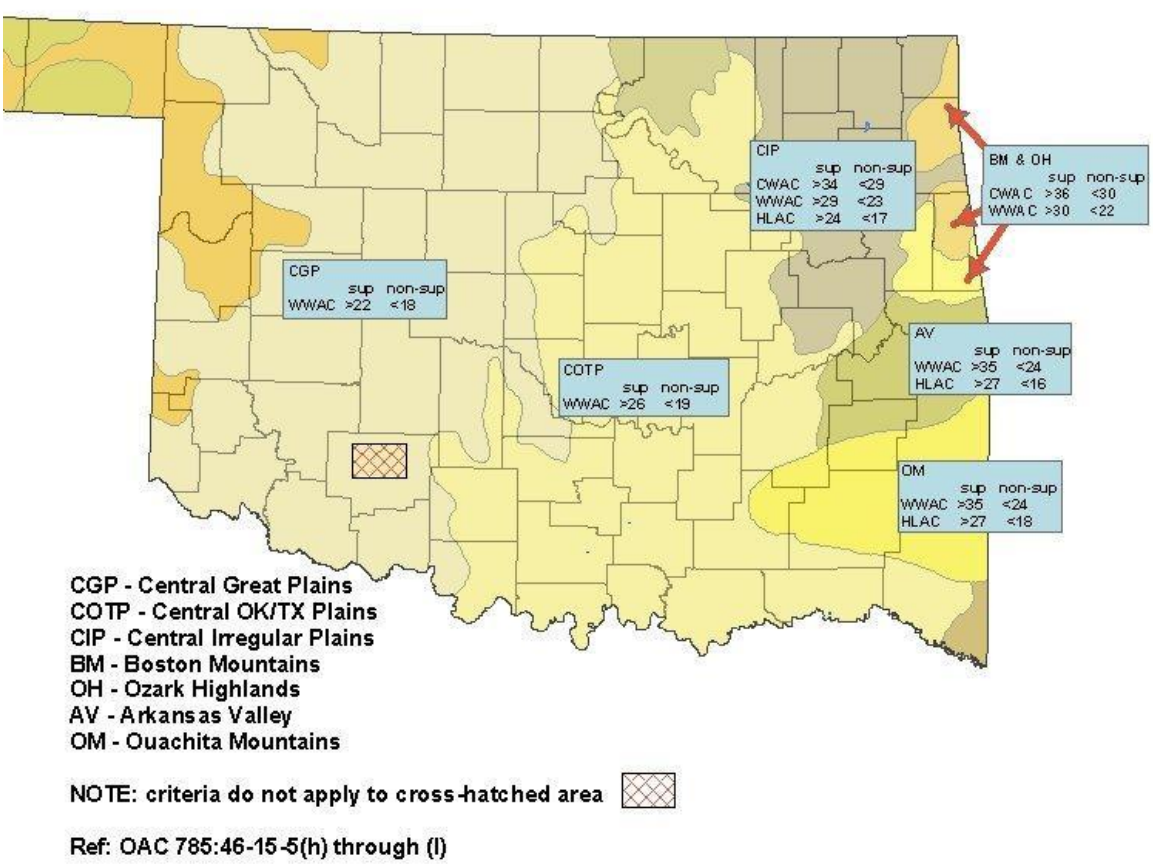
c. If all samples are "undetermined," then the macroinvertebrate support status for the collection is "undetermined."

6. A minimum of four macroinvertebrate samples (collected over at least a two year period) is required for assessment. Overall Fish and Wildlife Propagation (FWP) beneficial use attainment for macroinvertebrates is determined considering support status of all collections obtained within the reporting period in accordance with Table 22.

TABLE 22. FINAL FWP USE ATTAINMENT DETERMINATION BASED UPON MACROINVERTEBRATES.

Minimum number of "Attaining" collections	Number of "Undetermined" collections	Number of "Not Attaining" collections	Final Macroinvertebrate Assessment
2	any	0	Attaining
any	any	1	Undetermined
any	any	2 or more	not attaining

FIGURE 5. ECOREGIONS WHERE BIOCRITERIA HAVE BEEN ESTABLISHED



Turbidity

A minimum of ten (10) samples collected under seasonal base flow conditions is required to make an attainment determination.

The following numerical criteria shall be used to make attainment decisions for turbidity:

- 10 Nephelometric Turbidity Units (NTUs) for cool water aquatic communities and trout fisheries
- 25 NTUs for lakes
- 50 NTUs for other surface waters

The F&WP beneficial use is considered *attained with respect to turbidity* if:

10% or fewer of the samples exceed the appropriate screening level or water quality criterion.

or

the numerical criteria yield a determination of "fully supporting but threatened" and the threat will not yield a determination of other than fully supporting within two years of the determination.

The F&WP beneficial use is considered *not attained with respect to turbidity* if:

Greater than 10% of the samples exceed the appropriate screening level or water quality criterion

or

the numerical criteria yield a determination of "fully supporting but threatened" and the threat will yield a determination of other than fully supporting within two years of the determination.

The determination of seasonal base flow conditions should be made in accordance with the following methods:

- For recording gaged sites (including ones with gages at the site or near to the site with no intervening inflows):
  1. Calculate the mean and median discharge of the 30 days surrounding the sampling event.
  2. If Q at sampling event not greater than median—**<u>considered baseflow conditions, use in assessment;</u>** OR

     If Q at sampling event greater than median—look at mean
  3. If Q at sampling event not greater than mean, go to step 4; OR

     If Q at sampling event greater than mean - **<u>considered above baseflow conditions, exclude from assessment.</u>**
  4. If Q is greater than the median but not the mean, use the weight of evidence method described below.
- For non-recording gaged or ungaged sites use a weight of evidence of coincident parameters (e.g., instantaneous discharge, turbidity, conductivity, total phosphorus, and total suspended solids), relevant weather station information (as available and applicable), and observational data (e.g., presence of a defined periphyton line, site comments, quantitative flow rating such as “elevated” or “heavy”). Perform the following steps:
  1. Compile concurrent turbidity, turbidity cause qualifier (i.e., abiotic, biotic), Inst. Q, TP, TSS, conductivity, and site observation data (which includes qualitative stream stage and site comments). Sort by site and date.

2. For each site, move through the data looking for inflections in Inst. Q supported by similar inflections in concurrent parameters (e.g., increase in TP, TSS; decrease in conductivity). Quite a few of the elevated flows are indicated by the qualitative stream stage and site comments (e.g., "recent rainfall"), so the determination is immediate. Mark these events as exceeding baseflow.
3. Where applicable and practical, compare analysis to nearby mesonet data. This cannot be used to preclude the above analysis but can be used as a confirmation step to add to the weight of evidence approach.
4. Remove the "elevated flows" and perform the analysis.

For sites where all turbidity values are below the applicable criterion, determination of events exceeding baseflow conditions is not necessary.

Oil & Grease

A minimum of ten (10) visual observations made over a period of at least ten (10) months is required to make an attainment determination.

Any of the following visual characteristics shall indicate the presence of oil or grease:

- a rainbow sheen that flows when stirred, rather than crackling
- a golden tan to dark brown coating or globules on the water or in stream sediment

The F&WP beneficial use is considered *attained with respect to oil & grease* if 10% or fewer observations reveal the presence of oil or grease.

The F&WP beneficial use is considered *not attained with respect to oil & grease* if more than 10% of the observations reveal the presence of oil or grease.

Sediment

The F&WP beneficial use is considered *attained with respect to sediment* if the use is also attained with respect to biological criteria.

If the biological data assessment results in a determination of "not attained," a habitat assessment must be conducted using the habitat assessment protocols found in OWRB Technical Report TRWQ2001-1, "Unified Protocols for Beneficial Use Assignment for Oklahoma Wadable Streams."

The results of the habitat assessment shall then be compared to either historical conditions or regional reference conditions in order to determine attainment with respect to sediment. The method for establishing reference conditions shall meet the following requirements:

- a minimum of five (5) reference streams or reaches shall be assessed
- the reference streams or reaches must be within the same ecoregion as the test stream
- the reference streams or reaches must be within <u>streams with similar flow regimes no more than two (2) stream orders(as defined in 46:1-2) removed from the test stream</u>
- the reference streams or reaches shall be selected from the least impacted streams within the ecoregion whose watersheds contain soils, vegetation, land uses, and topography typical of the watershed of the test stream.

The F&WP beneficial use is considered *not attained with respect to sediment* if any of the following habitat parameters deviate from the reference conditions by the specified amount:

- Pool Bottom Substrate – the total percent of clay, silt, and loose sand in the test stream is increased by more than 30% over the reference condition

- Cobble Embeddedness – cobble embeddedness is increased by 15% or more over the reference condition
- Point Bars and/or Islands – reach length percentage containing fresh (non-vegetated) point bars and/or islands is 20 or more percentage points above that of the reference condition
- Deep Pools – percentage of reach dominated by deep (0.5 meters or more) pools is less than 70% of that of the reference condition

If all of the habitat parameters identified above deviate from the reference conditions by less than the amounts specified, then the Fish and Wildlife Propagation beneficial use is not impaired due to suspended and bedded sediments.

Toxicants Not Assessed and Not Likely to Occur or Violate Criteria

The data required to assess every water quality criterion – specifically toxicants – associated with the F&WP use do not always exist for a particular waterbody. The following procedure may be used to determine attainment of the F&WP beneficial use with respect to toxicants that have not been assessed, but are not likely to occur or violate criteria.

The following three types of information must be available in order to apply this procedure:

1. The results of a review of watershed-specific landuse and historical data that yields patterns of use or nonuse of the toxicant(s) not assessed.
2. A result of either "attained" or "not enough information" for the Toxicants methodology.
3. A result of either "attained" or "not enough information" for the Biological Data methodology.

NOTE: The decision matrix below may be used to determine *attainment of the F&WP beneficial use with respect to the unassessed toxicants* ***only if*** the landuse and historical data review yields no indication that the unassessed toxicants are present or likely to impact the waterbody in question.

TABLE 23. DECISION MATRIX FOR TOXICANTS NOT ASSESSED OR LIKELY TO OCCUR OR VIOLATE F&WP CRITERIA

		Biological Data	
		Attained	Not Enough Information
Toxicants	Attained	F&WP ***Attained*** With Respect To Unassessed Toxicants	F&WP ***Attained*** With Respect To Unassessed Toxicants
	Not Enough Information	F&WP ***Attained*** With Respect To Unassessed Toxicants	***Not Enough Information*** to Determine F&WP Attainment With Respect to Unassessed Toxicants

<u>Primary Body Contact Recreation (PBCR)</u>

A minimum of ten (10) samples is required to make an attainment determination. Samples must be taken during the recreation period of May 1 – September 30.

Geometric means will be calculated using all data meeting the temporal data requirements. The geometric means will be compared to the appropriate screening value.

Escherichia coli (*E. coli*)

The PBCR beneficial use is considered *attained with respect to E. coli* if:

the geometric mean of the samples does not exceed 126 colonies/100 mL

The PBCR beneficial use is considered *not attained with respect to E. coli* if:

the geometric mean of the samples exceeds 126 colonies/100 mL

Enterococci

The PBCR beneficial use is considered *attained with respect to Enterococci* if:

the geometric mean of the samples does not exceed 33 colonies/100 mL

The PBCR beneficial use is considered *not attained with respect to Enterococci* if:

the geometric mean of the samples exceeds 33 colonies/100 mL

Secondary Body Contact

Attainment for the SBCR beneficial use is identical to the PBCR attainment methodology, but using five times (5x) the PBCR numerical criteria and screening levels.

Public and Private Water Supply (PPWS)

In order to determine attainment of the PPWS beneficial use, samples must be taken at the point of a drinking water intake.

Toxicants

A minimum of ten (10) samples is required to make an attainment determination.

The PPWS beneficial use is considered *attained with respect to any individual toxicant* for which there is a water quality criterion established if:

10% or fewer of the samples have concentrations of a toxicant that exceed the criterion for that toxicant

and

no drinking water use restrictions related to source water contamination are in effect

The PPWS beneficial use is considered *not attained with respect to any individual toxicant* for which there is a water quality criterion established if:

more than 10% of the samples have concentrations of a toxicant that exceed the criterion for that toxicant

or

a drinking water use restriction related to source water contamination is in effect

Total Coliform

A minimum of ten (10) samples is required to make an attainment determination.

The following numerical criterion shall be used to make attainment decisions for bacteria:

- 5000 colonies/100 mL

The PPWS beneficial use is considered *attained with respect to bacteria* if:

the numerical criterion yields a determination of "fully supporting" using the default protocol

or

the numerical criterion yields a determination of "fully supporting but threatened" using the default protocol if the threat will not yield a determination of other than fully supporting within two years of the determination

or

the Primary Body Contact Recreation use is attained.

The PPWS beneficial use is considered *not attained with respect to bacteria* if:

the numerical criterion yields a determination of "not supporting" using the default protocol

or

the numerical criterion yields a determination of "fully supporting but threatened" using the default protocol ***if*** the threat will yield a determination of other than fully supporting within two years of the determination.

Oil & Grease

A minimum of ten (10) visual observations made over a period of at least ten (10) months is required to make an attainment determination.

Any of the following visual characteristics shall indicate the presence of oil or grease:

- a rainbow sheen that flows when stirred, rather than crackling
- a golden tan to dark brown coating or globules on the water or in stream sediment

The PPWS beneficial use is considered *attained with respect to oil & grease* if 10% or fewer observations reveal the presence of oil or grease.

The PPWS beneficial use is considered *not attained with respect to oil & grease* if more than 10% of the observations reveal the presence of oil or grease.

Parameters Not Assessed and Not Likely to Occur or Violate Criteria

The data required to assess every water quality criterion associated with PPWS does not always exist for a particular waterbody. In those cases, the following procedure should be followed in order to make an attainment decision.

For parameters not assessed or which are not likely to occur or violate criteria, attainment decisions should be made based on two kinds of information:

1. the results of analysis of chemical-specific parameters routinely monitored by the State's Beneficial Use Monitoring Program (BUMP) as compared to State criteria associated with PPWS
2. the results of a review of watershed-specific landuse and historical data that yields patterns of use for the pollutant in question

The PPWS beneficial use is considered *attained with respect to unassessed parameters* if:

the waterbody is attaining the PPWS use for BUMP parameters according to the Toxicants section of this listing methodology

and

no suspicion of the presence of the unassessed parameters exists based on landuse and historical data review

Chlorophyll-α and Phosphorus

Certain water supplies have specific criteria for chlorophyll-α and/or total phosphorus as specified in OAC 785:45-5-10(7) and (8). Attainment of these criteria will be evaluated using the specified criteria and the long-term average default protocol.

Emergency Water Supply (EWS)

All waterbodies designated with the Emergency Water Supply beneficial use shall be deemed to be attaining the beneficial use for all water quality related issues.

Agriculture

Total dissolved solids (TDS)

A minimum of ten (10) samples is required to make an attainment determination.

The Agriculture beneficial use is considered *attained with respect to TDS* if:

no TDS sample exceeds 700 mg/l

or

the mean of all TDS samples does not exceed the yearly mean standard (YMS) for TDS as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria (if the YMS in Appendix F is below 700 mg/L, then 700 mg/L shall be used for assessment)

and

10% or fewer TDS samples exceed the sample standard (SS) for TDS as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria. (if the SS in Appendix F is below 700 mg/L, then 700 mg/L shall be used for assessment)

The Agriculture beneficial use is considered *not attained with respect to TDS* if:

At least one TDS sample exceeds 700 mg/l

and

more than 10% of the samples exceed the sample standard (SS) for TDS as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria (if the SS in Appendix F is below 700 mg/L, then 700 mg/L shall be used for assessment)

or

the mean of all samples exceeds the yearly mean standard (YMS) for TDS as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria. (if the YMS in Appendix F is below 700 mg/L, then 700 mg/L shall be used for assessment)

Chlorides

A minimum of ten (10) samples is required to make an attainment determination.

The Agriculture beneficial use is considered *attained with respect to chlorides* if:

no chloride sample exceeds 250 mg/l

or

the mean of all samples does not exceed the yearly mean standard (YMS) for chlorides as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria (if the YMS in Appendix F is below 250 mg/L, then 250 mg/L shall be used for assessment)

and

10% or fewer samples exceed the sample standard (SS) for chlorides as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria. (if the SS in Appendix F is below 250 mg/L, then 250 mg/L shall be used for assessment)

The Agriculture beneficial use is considered *not attained with respect to chlorides* if:

At least one chloride sample exceeds 250 mg/l

and

more than 10% of the samples exceed the sample standard (SS) for chlorides as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria (if the SS in Appendix F is below 250 mg/L, then 250 mg/L shall be used for assessment)

or

the mean of all samples exceeds the yearly mean standard (YMS) for chlorides as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria. (if the YMS in Appendix F is below 250 mg/L, then 250 mg/L shall be used for assessment)

Sulfates

A minimum of ten (10) samples is required to make an attainment determination.

The Agriculture beneficial use is considered *attained with respect to sulfates* if:

no sulfate sample exceeds 250 mg/l

or

the mean of all samples does not exceed the yearly mean standard (YMS) for sulfates as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria (if the YMS in Appendix F is below 250 mg/L, then 250 mg/L shall be used for assessment)

and

10% or fewer samples exceed the sample standard (SS) for sulfates as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria. (if the SS in Appendix F is below 250 mg/L, then 250 mg/L shall be used for assessment)

The Agriculture beneficial use is considered *not attained with respect to sulfates* if:

At least one sulfate sample exceeds 250 mg/l

and

more than 10% of the samples exceed the sample standard (SS) for sulfates as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria (if the SS in Appendix F is below 250 mg/L, then 250 mg/L shall be used for assessment)

or

the mean of all samples exceeds the yearly mean standard (YMS) for sulfates as listed in the Oklahoma Water Quality Standards (OAC 785:45 Appendix F) or site-specific/watershed-specific criteria. (if the YMS in Appendix F is below 250 mg/L, then 250 mg/L shall be used for assessment)

<u>Navigation</u>

All waterbodies designated with the Navigation beneficial use shall be deemed to be attaining the beneficial use for all water quality related issues.

<u>Aesthetics</u>

Nutrients

The Aesthetics beneficial use is considered *attained with respect to nutrients* if a nutrient impairment study yields a result of "fully supporting."

The Aesthetics beneficial use is considered *not attained with respect to nutrients* if a nutrient impairment study yields a result of "impaired."

Only a nutrient impairment study may be used to make a determination of *not attained* for aesthetics with respect to nutrients.

Wadable Streams

The aesthetics beneficial use for wadable streams is considered *attained with respect to nutrients* if application of the dichotomous process <u>or</u> application of the alternative to dichotomous process specified in OAC 785:46-15-10 yields a result of “not threatened.”

Lakes and Nonwadable Streams

The aesthetics beneficial use for lakes and nonwadable streams is considered *attained with respect to nutrients* if planktonic chlorophyll-a values in the water column indicate a Carlson's Trophic State Index of less than 62.

Phosphorus

The phosphorus water quality standard applies to waters designated as a Scenic River.

A minimum of ten (10) samples is required to make an attainment determination. Samples must meet the data requirements of OAC 785:46-15-10(h)(2).

Attainment decisions will be made using the procedure specified in OAC 785:46-15-10(h).

Oil & Grease

A minimum of ten (10) visual observations made over a period of at least ten (10) months is required to make an attainment determination.

Any of the following visual characteristics shall indicate the presence of oil or grease:

- a rainbow sheen that flows when stirred, rather than crackling
- a golden tan to dark brown coating or globules on the water or in stream sediment

The aesthetics beneficial use is considered *attained with respect to oil & grease* if 10% or fewer observations reveal the presence of oil or grease.

The aesthetics beneficial use is considered *not attained with respect to oil & grease* if more than 10% of the observations reveal the presence of oil or grease.

Fish Consumption

The Fish Consumption beneficial use is considered *attained* if:

the numerical criteria for fish consumption in the Oklahoma Water Quality Standards [OAC 785:45-5-20(b)] yields a determination of "fully supporting" using the default protocol for long-term average numerical parameters

or

the numerical criteria for fish consumption in the Oklahoma Water Quality Standards [OAC 785:45-5-20(b)] yields a determination of "fully supporting but threatened" using the default protocol for long-term average numerical parameters if the threat will not yield a determination of other than fully supporting within two years of the determination.

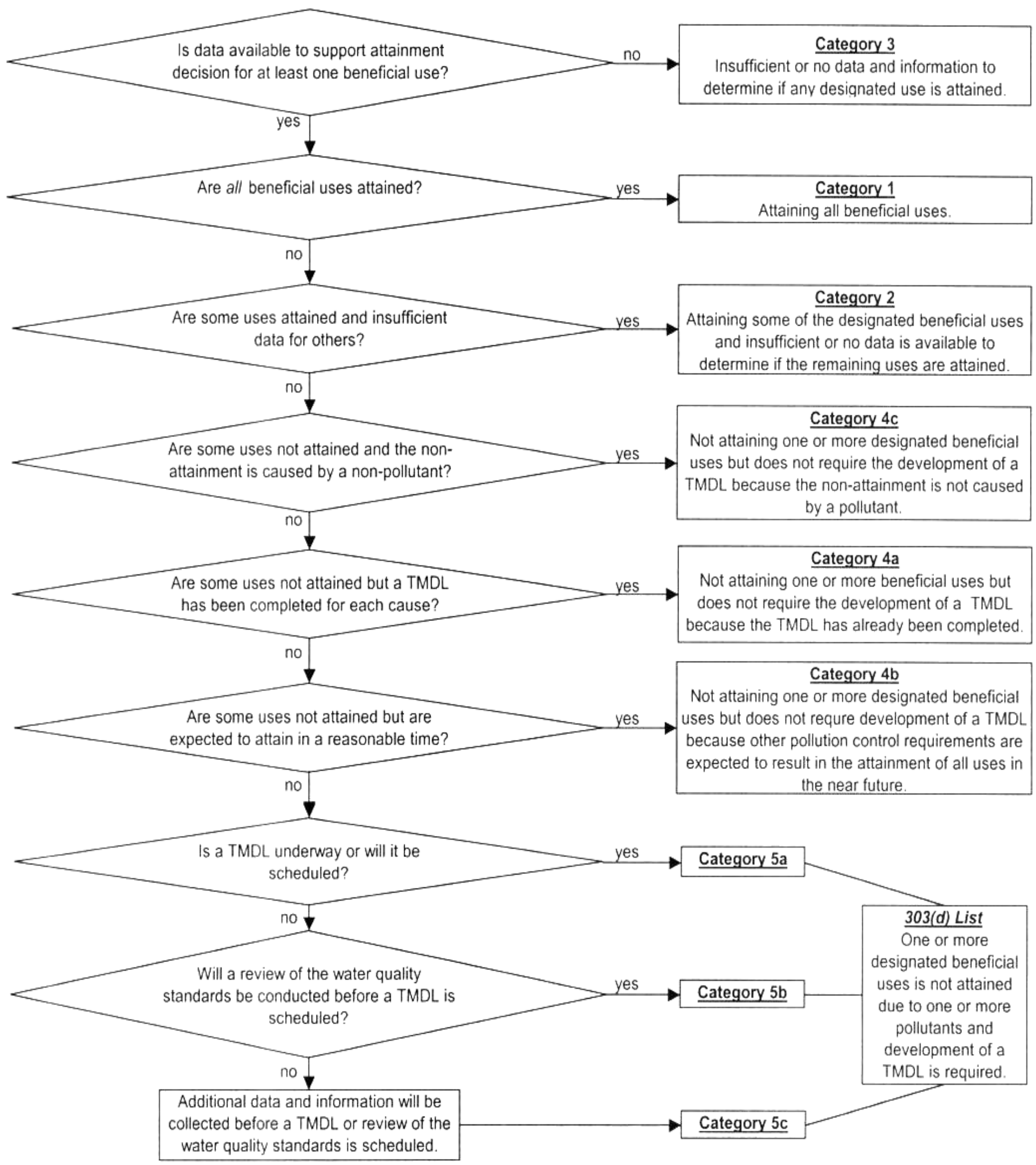
The Fish Consumption beneficial use is considered *not attained* if any of the following conditions apply:

- The numerical criteria for fish consumption in the Oklahoma Water Quality Standards [OAC 785:45-5-20(B)] yields a determination of “not supporting” or “partially supporting” using the default protocol for long-term average numerical parameters.
- a site-specific consumption restriction is imposed
- a site-specific fish or shellfish ban is in effect for a sub-population thereof
- a site-specific aquatic life closure is in effect
- a site-specific "no consumption" advisory is in effect

Category Decision Methodology

The Integrated Water Quality Report contains five categories that describe different levels of beneficial use attainment in each of the State's waters. Each waterbody should be assessed for attainment of each of its individual designated beneficial uses using the methodology outlined above. Following that assessment, the decision tree in Figure 6 below should be used to assign each waterbody to an appropriate category.

FIGURE 6. INTEGRATED REPORT CATEGORY DECISION TREE



Causes of Non-Attainment

The previous methodology outlines the procedures for determining attainment of each designated beneficial use assigned to a waterbody. Causes of non-attainment must also be included in the State's Integrated Water Quality Assessment Report.

The causes and cause codes shown in Table 17 should be applied where applicable to each waterbody upon making a determination of non-attainment for any given designated beneficial use or subcategory of that use. Additional cause codes may be added to the State's Integrated Report in order to provide for numerical criteria in the State's Water Quality Standards not already represented with a cause code.

Sources of Non-Attainment

Sources are the activities, facilities, or conditions that contribute pollutants or stressors resulting in impairment of designated uses in a waterbody.

Determining the sources of designated use impairment can be a difficult process. Ambient monitoring data can give good evidence of the causes of impairment. In some cases, field observations can provide information on obvious, nearby problems; e.g., land use, substrate, and habitat may provide a basis for identifying sources. This is especially the case for "hydromodification" sources.

In most cases, additional information is needed – watershed land use inventories, records of permit compliance, locations of areas with highly erodible soils, areas with poor BMP (best management practice) implementation, measurements of in-place contaminants, or loadings from atmospheric transport or ground water.

For some waterbodies, potential non-point sources have been assigned to a cause using GIS data. Initially, an extensive list of potential sources for each cause is compiled. Geographical information such as the location of permitted activities (e.g., NPDES sources, CAFOs, oil & gas wells) and land use information (e.g., roads, pastures, cropland, municipal boundaries) is then compared to each watershed. Subsequently, potential sources not indicated by the geographic data are removed from the list of potential sources for a watershed. Potential sources not eliminated by the geographic information remain on the list as a potential source of impairment for waterbodies in the watershed.

This method of assigning potential sources has not been applied to all waterbodies and/or causes on the 2014 303(d) list. The intent is to use this methodology to assign potential sources to all 303(d) waterbodies for subsequent 303(d) lists.

A partial list of potential sources is shown in Table 18. Other source codes may be added as the need arises.

TABLE 24. CAUSE CODES

Cause	Cause Code
Ammonia (Unionized) - Toxin	91
Arsenic	96
Barium	104
Cadmium	127
Chloride	138
Chlorophyll-α	150
Chlorpyrifos	153
Chromium (total)	154
Color	160
Copper	163
DDT	214
Diazinon	187
Dieldrin	198
Enterococcus	215
Escherichia coli	217
Fishes Bioassessments (Streams)	230
Lead	267
Nitrates	302
Oil and Grease	317
Oxygen, Dissolved	322
Selenium	372
Sedimentation/Siltation	371
Silver	375
Sulfates	385
Temperature, water	388
Thallium	393
Total Dissolved Solids	399
Toxaphene	496
Fecal Coliform	400
Turbidity	413
Zinc	423
pH	441
Phosphorus (Total)	462

TABLE 25. SOURCE CODES

Potential Source	Source Code
Acid Mine Drainage	2
Agriculture	156
Animal Feeding Operations (NPS)	4
Atmospheric Deposition – Acidity	8
Atmospheric Deposition - Toxics	10
CERCLA NPL (Superfund) Sites	16
Clean Sediments	21
Discharges from Biosolids (SLUDGE) Storage, Application or Disposal	33
Discharges from Municipal Separate Storm Sewer Systems (MS4)	34
Dredging (E.g. for Navigation Channels)	38
Grazing in Riparian or Shoreline Zones	46
Highway/Road/Bridge Runoff (Non-construction related)	49
Impacts from Land Application of Wastes	59
Impacts from Abandoned Mine Lands (Inactive)	56
Impacts from Hydrostructure Flow Regulation/Modification	58
Industrial Point Source Discharge	62
Irrigated Crop Production	66
Land Application of Wastewater Biosolids (Non-agricultural)	68
Landfills	69
Leaking Underground Storage Tanks	70
Mine Tailings	82
Municipal (Urbanized High Density Area)	84
Municipal Point Source Discharges	85
Natural Sources	155
Non-irrigated Crop Production	87
On-site Treatment Systems (Septic Systems and Similar Decentralized Systems)	92
Other Spill Related Impacts	97
Permitted Runoff from Confined Animal Feeding Operations (CAFOs)[1]	100
Petroleum/Natural Gas Production Activities (Legacy)	102
Rangeland Grazing	108
Releases from Waste Sites or Dumps	110
Residential Districts	111

Silviculture Harvesting	119
Spills from Trucks or Trains	124
Surface Mining	127
Source Unknown	140
Sources Outside State Jurisdiction or Borders	146
Total Retention Domestic Sewage Lagoons	128
Wastes from Pets	133
Wildlife Other than Waterfowl	136

TABLE 26. USEFUL INFORMATION IN DETERMINING SOURCES OF BENEFICIAL USE NON-ATTAINMENT

Source Category	Example Types of Information
Industrial Point Sources	Permit compliance records • analysis of DMRs • compliance monitoring or special monitoring in permits • WET or TIE bioassay tests Monitoring/modeling studies • upstream/downstream chemical, biological, and habitat monitoring • intensive surveys combined with WLA/TMDL modeling • complaint investigations • data from volunteer monitoring
Municipal Point Sources	Permit compliance records • analysis of routine DMRs • compliance monitoring or special monitoring in permits • WET or TIE toxicity bioassay tests Monitoring/modeling studies • upstream/downstream chemical, biological, and habitat monitoring • intensive surveys combined with WLA/TMDL modeling • complaint investigations • data from volunteer monitoring
Combined Sewer Overflows (CSOs)	Permit compliance records • records of nonachievement of targets for frequency of wet weather overflows • implementation of other minimum control and pollution prevention methods (as in EPA CSO Control Policy) Monitoring/modeling studies • upstream/downstream chemical, biological, or physical monitoring comparing wet weather and normal flow conditions • intensive surveys combined with WLA/TMDL modeling • complaint investigations

Source Category	Example Types of Information
Agricultural Point Sources (e.g., CAFOs)	Permit compliance records • observation of overflows from total retention (non-discharge) facilities • compliance with provisions for off-site disposal of animal wastes (e.g., land application, composting) Monitoring studies • upstream/downstream chemical, biological, or physical monitoring (especially for nutrients and pathogens) • complaint investigations
Agriculture (NPS)	Information from monitoring and field observations (e.g., to document bad actors) • edge of field monitoring of runoff from animal holding areas, cropped areas, or pastures • monitoring of inputs from irrigation return flows, sub-surface drains, or drainage ditches • proper installation of screens or other measures to avoid fish losses in drainage/irrigation ditches • serious rill or gully erosion in agricultural fields • sedimentation problems in agricultural watersheds • indications of unmanaged livestock in streamside management zones • complaint investigations or data from volunteer monitoring or inventories Records on watershed BMP implementation status • documented low implementation level (e.g., less than a 70% target) of recommended water quality BMPs • documented problems with specific agricultural operators Modeling • use of such models as AGNPS, SWAT or ANSWERS to estimate pollutant loads and improvement from BMP implementation • intensive surveys combined with WLA/TMDL modeling
Silviculture (NPS)	Monitoring and field observations documenting instances of high sediment delivery to receiving waters • BMPs not followed on logging road, skid paths, or stream crossings • BMPs not followed to protect streamside management zones • serious sedimentation problems (cobble embeddedness or interstitial D.O. problems) in watersheds that are largely silvicultural Records on watershed BMP/management measure) • implementation status • documented low implementation level of recommended water quality-oriented BMPs Results of modeling or cumulative effects analyses • use of such models as WRENSS to estimate pollutant loads and likely improvement from BMP implementation • use of water temperature models to help quantify impacts on cold water fisheries • use of landscape analysis techniques (e.g., the RAPID method or Integrated Riparian Area Evaluation method) to document cumulative effects • intensive surveys combined with WLA/ TMDL modeling

Source Category	Example Types of Information
Construction	Information from monitoring and field observations (primarily to document problem areas or bad actors) • sedimentation problems documented in watersheds with major construction activity • complaint investigations and volunteer monitoring data Information from sediment control management agencies • records of implementation of sediment control measures
Urban Runoff & Storm Sewers	Monitoring/modeling studies • upstream/downstream chemical, biological, or habitat monitoring comparing wet weather and normal flow conditions near outfalls • special monitoring for BMP effectiveness-wet ponds, artificial wetlands, grass swales • intensive surveys combined with WLA/ TMDL modeling and catchment models such as SWMM • complaint investigations Information from management agencies • documented low implementation level of recommended/required water quality-oriented BMPs • documented problems with BMP operation and maintenance information from monitoring and field observations (primarily to document problem areas or bad actors)
Resource Extraction (Petroleum)	Information from monitoring and field observations (primarily to document problem areas or bad actors) • evidence of oil and brine spills affecting areas near receiving waters; elevated TDS, toxicity, oil and grease aesthetic impacts; increased erosion and sedimentation problems • complaint investigations and volunteer monitoring data Electro-Magnetic (EM) surveys, land or helicopter (HEM) based • Detect high conductivity/high cation/anion levels in soil • Detect high conductivity/high cation/anion levels in groundwater, up to ~60 m deep • High ion levels can be due to Na and Cl (natural, O&G brines), excess litter/fertilizer application, leaking waste pits, etc. Information from petroleum management agencies monitoring data in streams, shallow wells, and springs in oilfield areas • records of problems with spills, pipeline breaks, over-topping of pit berms, land application violations
Resource Extraction (mainly surface mining)	Information from monitoring and field observations (primarily to document problem areas or bad actors) • evidence of decreases in pH, toxicity from heavy metals, excessive sedimentation, or stream reaches with iron bacteria in watersheds with active mining • complaint investigations and volunteer monitoring data Information from mining management agencies • records of recurrent permit violations (e.g., over-berming of settling ponds, failure to contain leachates, or failure to revegetate or restore mined areas)

Source Category	Example Types of Information
Land Disposal	Monitoring and field observations (primarily to document problem areas or bad actors) • monitoring indicates leachate migration from disposal area or industrial or domestic leach field failures • complaint investigations and volunteer monitoring Modeling • solute transport or plume models (e.g., PRIZM) indicate high potential for pollutants to reach receiving water
Hydromodification (dams, flow regulation)	Monitoring and field observations • recurring problems with inadequate instream flows (e.g., dewatering of streams, reduced pollutant assimilation, unnatural water temperatures) • documented interference with fish migration and spawning movements (e.g., for such anadromous fish as salmon or rockfish but also for inland fish that seek spawning habitat outside lakes or large rivers) Modeling • analysis using PHABSIM or other instream flow models to document adverse impacts • analysis related to FERC permit renewal and State 401 Certification, habitat recovery plans under the ESA, or TMDL studies (e.g., problems with anoxic or nutrient-laden releases from hydrostructures)
Hydromodification (channelization, dredging, removal of riparian vegetation, streambank modification, draining/filling of wetlands)	Monitoring (usually over considerable period of time) documenting adverse changes: • severe channel downcutting or widening • elimination of vegetation in streamside management zones • excessive streambank erosion and sloughing • loss of significant wetland area in watershed • failure of wetland mitigation projects Modeling studies • decreases in pollutant assimilation from habitat modification • adverse impacts on hydrology, water temperatures, or habitat
Natural	Monitoring and field observations of the presence of sources that are clearly not anthropogenic • saline water due to natural mineral salt deposits • low DO or pH caused by poor aeration and natural organic materials • excessive siltation due to glacial deposits • high temperatures due to low flow conditions or drought Note: the Natural Sources category should be reserved for waterbodies impaired due to naturally occurring conditions

Prioritization of TMDL Development

After the final determination of beneficial use attainment is made, a four-level priority ranking for TMDL development will be established including waters targeted for TMDL development within the next two years (Priority 1). In accordance with EPA guidelines, priority determinations will take into account the severity of the impairments and the designated uses of the waters impacted. Waters in Category 5 (the State's 303(d) list) will be aggregated and prioritized according to their eleven digit hydrologic unit code (HUC11) watershed. The prioritization process will closely follow that used to develop the Unified Watershed Assessment except where changes are necessary due to programmatic and logistical differences between the two programs. Primary and secondary criteria were developed to evaluate and prioritize watersheds for TMDL development. The primary evaluation criteria used were the vulnerability of waters to degradation, the risks to public health and the threat to aquatic life.

A watershed's vulnerability for degradation was evaluated by first calculating the percentage of impaired waters for each HUC11 watershed based on the stream miles or equivalent stream miles (for lakes) listed as impaired divided by the total equivalent stream miles within the watershed. A Pollutant Priority Score was also developed and used based on a pairwise comparison matrix rank of all pollutant(s) and then calculating the mean of the values for those pollutants causing impairments within each watershed. The presence of protected waters or EQIP local emphasis areas were also used to evaluate watershed vulnerability.
The threat to public health was also considered in the prioritization by evaluating both the population served by Public Water Supplies (PWS) and number of PWS intakes in the watershed. In both cases the more population served and the higher the number of intakes the more weight given to the risks to public health.

In assessing of the threats to aquatic life within a watershed consideration was given to the presence of threatened or endangered species along with the area of waters of recreational and/or ecological significance listed in Appendix B of the Oklahoma Water Quality Standards. Calculating the percent change in wetland area for each HUC11 watershed along with the presence of priority wetlands designated by the United States Fish and Wildlife Service were also used to evaluate the threats to aquatic life.

The outline below summarizes both the primary and secondary criteria used to establish the TMDL priority for each HUC11 watershed.

1) **Vulnerability of waterbodies to degradation**
    a) Percent Stream Length/Lake Area Impaired
    b) Pollutant Priority Score (Pairwise pollutant comparison rating)
    c) Pristine Waters
        i) Scenic Rivers
        ii) Outstanding Resource Waters
        iii) High Quality Waters
        iv) Sensitive Water Supplies
    d) EQIP Local Emphasis Area
2) **Risks to public health**
    a) Public Water Supply Customers
    b) Public Water Supply Intakes
3) **Threat to aquatic life and other water-dependent wildlife**
    a) Presence of threatened and endangered species.
    b) Area of Waters of Recreational and/or Ecological Significance (Appendix B)
    c) Wetland Area
        i) Presence of USFWS Priority Wetlands
        ii) Change in Wetland Area

The priority ranking was established by giving each of the criteria above a ranking/points based on its overall importance. The criteria rankings or points were then totaled to give an overall score for each watershed. Table 27 below contains a more detailed summary of the actual weight given to each criterion.

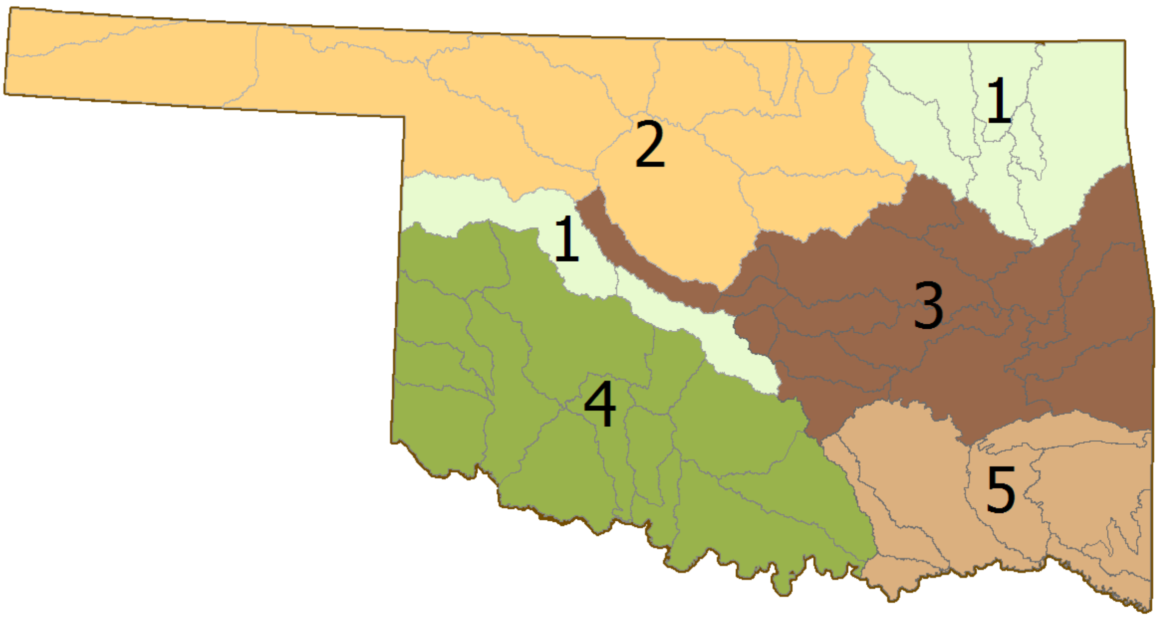
TABLE 27. TMDL PRIORITIZATION-POINT RANKING

Points	Total Percent Impaired	Pollutant Priority Score	Wetland Percent Change	USFWS T&E Species	USFWS Wetland Priority	EQIP Local Emphasis Area	Highest Designated Protected Waterbody	Percent Appendix B Areas	PWS Intakes in HUC	PWS Customers Served
15	85	> 75th Quartile	>20%	≥ 3			Scenic R or ORW		≥ 4	≥ 100,000
10	65	Median to 75th Quartile	>10% to 20%	2			HQW		3	99,999 to 10,000
5	45	25th Quartile to Median	>5 to 10%	1	Yes	Yes	SWS	Upper 50th Percentile	2	9,999 to 1,000
3	25	< 25th Quartile	1 to 5%					Lower 50th Percentile	1	999 to 1
0	0	No Impairments	Gain or <1%		No	No		None	0	0

Future Monitoring

Where practicable, the State's Rotating Basin plan (Figure 7) will be used to schedule data collection projects for Oklahoma Conservation Commission stream monitoring activities.

FIGURE 7. ROTATING BASIN PLAN WATERSHEDS BY YEAR



Coordination, Review, And Approval

DEQ has coordinated the development and submittal of the Integrated Water Quality Report. The process began with a notice and request for input sent to EPA Region 6, State environmental agencies, and Tribal environmental offices. A series of interagency meetings were conducted to review the listing methodology, review and discuss the draft list along with priority rankings and scheduling, and facilitate the exchange of information. The draft list will be circulated to EPA Region 6, and state environmental agencies for comment prior to release for public participation.

Public participation will be undertaken in two phases. When the process to identify candidate waters began, nominations from the public were solicited. This involved distribution of the mailout shown in Figure 8 in September, 2011. Once the final draft list is compiled, it shall be submitted for formal public review with notice and a 30-day comment period. Upon the close of the comment period, a responsiveness summary will be prepared. DEQ will coordinate public participation activities. After the public review period and finalization of the list, it will be formally submitted to EPA Region 6 for review and approval.

FIGURE 8. MAILOUT REQUEST FOR PUBLIC INPUT

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How to Provide WQ Info

DEQ invites you to provide water quality information to be considered in Oklahoma's *2014 Integrated Report*. All information must be submitted either in writing or by e-mail before the end of the solicitation period.

A summary of DEQ's decisions regarding the water quality information that was submitted will be included as an appendix to the draft *2014 Integrated Report* when it goes out for Public Notice.

In order to be considered, all data and information must be received at DEQ BEFORE 4:30 p.m., Tuesday, November 5, 2013.

Submit your water quality information to:

Joe Long
Water Quality Division
Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677
Water.Comments@deq.ok.gov

To Obtain More Information

Copies of the State's ***Continuing Planning Process***, the most recent **303(d) list**, and **Integrated Report** are available at:
www.deq.state.ok.us/WQDnew/305b_303d/index.html

The Use Support Assessment Protocols can be found in Subchapter 15 of the *Implementation of Oklahoma's Water Quality Standards* (Title 785, Chapter 46). It is available for download at:
www.owrb.ok.gov/util/rules/pdf_rul/current/Ch46.pdf

Oklahoma's Water Quality Standards (Title 785, Chapter 46) are available for download at:
www.owrb.ok.gov/util/rules/pdf_rul/current/Ch45.pdf

If you are receiving this in paper form, please help save money and the environment by receiving the notice in PDF format via e-mail. Just send your name & e-mail address to Water.Comments@DEQ.OK.gov.

Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677

Public Solicitation for Water Quality Information for the *Water Quality in Oklahoma 2014 Integrated Report*

(Includes the 303(d) List of Impaired Waterbodies)

October 4, 2013

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Water Quality Division

P.O. Box 1677

Oklahoma City, Oklahoma 73101-1677

Ph: 405-702-8100 • Fax: 405-702-8101

http://www.deq.state.ok.us

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BACKGROUND

The Oklahoma Department of Environmental Quality is in the process of developing Oklahoma's *2014 Integrated Report*. The Integrated Report combines into one document the reporting requirements under the Federal Clean Water Act (CWA) Section 305(b) - *Surface Water Quality Assessment* - and the reporting requirements under CWA Section 303(d) - *List of Impaired Waters*.

The Integrated Report is a biennial assessment of all Oklahoma waterbodies. The methods used to develop/revise the Integrated Report are described in the Continuing Planning Process (CPP) document. One goal of the CPP is to provide an objective and scientifically sound waterbody assessment listing methodology. The CWA requires states to develop Water Quality Standards (WQS) and have designated beneficial uses assigned to all waterbodies. These uses of water are for things such as drinking, fishing, swimming, recreation, aesthetics, and agriculture.

The waterbodies that can't meet minimum WQS are considered to be "impaired". Impaired waterbodies are listed on the 303(d) list. DEQ develops plans - known as Total Maximum Daily Loads (TMDLs) - with goals and pollution control targets for improving water quality in impaired waterbodies so that the waterbodies can achieve their WQS beneficial uses. The 303(d) list is also used to establish priorities for TMDL development.

Federal regulations governing the 303(d) listing process and TMDL development are found in 40 CFR Part 130. The Environmental Protection Agency (EPA) recently released their 2014 Integrated Report Guidance to the states for developing Integrated Reports (EPA, 2013). EPA emphasized that their Integrated Report guidance does not alter the statutory provisions in sections 305b and 303d of the CWA, nor does it change existing rules governing development of impaired waterbodies lists previously discussed.

WATER QUALITY DATA REQUIREMENTS

This solicitation notice serves as a means of gaining information about water quality from the public. Once the information is reviewed, then a draft of the Integrated Report is submitted for public review which includes a 30-day comment period. Near the end of the public comment period, there will be a public meeting to go over the draft Report and answer any questions about the Report.

EPA regulations (40 CFR 130.7) require that "all existing and readily available water quality related data and information" must be evaluated in developing the 303(d) list. A complete list of criteria and information necessary for consideration is found in the *Integrated Water Quality Report Listing Methodology* beginning on page 101 of the 2012 CPP. **Water quality data must meet the following criteria to be considered**:

- The data can't be more than 5 years old for rivers (10 years for lakes) for parameters associated with designated uses.
- Only data collected before **April 30, 2013** will be used in attainment determinations.
- Impairments must be due to specific pollutants for which TMDLs can be developed. The specific cause of the impairment must be noted in the submittal, if known.

All nominations **must** include the following information:

✓ ***Waterbody Identification***

Oklahoma uses a 14-digit waterbody identification (WBID) system. If you do not know the appropriate WBID number for your particular segment, go to the DEQ ArcGIS Viewer at: http://gis.deq.ok.gov/flexviewer/. Zoom into the waterbody area. On the Layer List, click on the Water Data box then – in the drop down menu in the layer below - click on the Integrated Report Waterbodies box. If there is a colored line in your waterbody, click on that line and a box will appear that gives the name and WBID. If there isn't a colored line, put your cursor on the waterbody then write down the latitude and longitude reading found in the lower left corner of the Viewer map.

✓ ***Justification for Listing Decision***

All decisions about a waterbody's listing in the Integrated Report are based on ample data and documentation to prove whether or not that waterbody meets WQS. As a result, your submittal should include a summary of the data used to support the decision, the complete data set (or reference to the complete data set if it is contained in a published report), and an analysis showing a violation of WQS or proof the waterbody is no longer impaired. *Oklahoma's WQS* (Title 785, Chapter 45), Use Support Assessment Protocols (Subchapter 15, Title 785, Chapter 46), and the procedures in the CPP should be consulted and utilized in your justification and analysis.

✓ ***QA/QC Procedures Used***

Data submitted should include information on sampling and analyses, including Quality Assurance and Quality Control (QA/QC) procedures used. DEQ will evaluate the QA/QC protocols used in gathering and analyzing the samples to decide if and how that data will be used. To be used, data must use QA/QC methods that are in accordance with "EPA Requirements for QA Project Plans" (QA/R5, December 2002).

Groundwater Quality

Overview

Groundwater is an important natural resource in Oklahoma. There are twenty-one major groundwater basins in the State and approximately 150 minor basins. These major basins are used as primary source of community drinking water and are estimated to hold over 320 million acre-feet of fresh water. See Figure 8 for a detailed map of the "Major Groundwater Aquifers in Oklahoma".

The Oklahoma CAFO and Swine Feeding Operation (SFO) Acts puts measures into place that prohibit a hydrologic connection between generated wastewater and waters of the State. The SFO Act further states that samples of water from Licensed Managed Feeding Operations (LMFO) monitoring wells located around swine lagoons shall be collected by the ODAFF and tested at least annually. LMFOs licensed on or after August 1, 1998 had to install a monitoring "system" (leak detection or wells) before using the retention structure to store liquid wastes. The main goal of the monitoring program is to ascertain if groundwater resources at or near the LMFOs are being subject to any degradation as result of the operation of the facilities and storage of the liquid animal waste. The baseline data for the facilities serves as a reference point to potential change in groundwater quality over time. Beginning in the Fall of 1999 to present date, the Department has been involved with the annual sampling and evaluation of over 1,000 monitoring wells at swine LMFOs as required by provisions in the Act.

There are extensive produced water/brine groundwater plumes in some old oilfield areas due mainly to old spills that were never remediated, leaking unplugged wells, and to the former practice (now banned for over thirty five years) of dumping produced brines into "evaporation pits". Pollutants and saline water have migrated from these surface and subsurface sources into underlying soils and groundwater. Drinking water wells in the some areas have been rendered un-usable, and many streams are now being impacted by saline groundwater plumes that emanate from the old produced water and "evaporation pit" areas. Counties where this has been identified as a known or likely problem include Pottawatomie, Seminole, Kay, Oklahoma, Carter, Garvin, Garfield, and Stephens. Other areas have yet to be investigated.

From 1996 through 2013 the Corporation Commission collected and analyzed 2741 groundwater samples near known and suspected oil and gas spill sites and/or in response to complaints from citizens in oil and gas field areas. These are taken in domestic and other water wells; in monitoring wells installed to investigate possible groundwater pollution; from water seeping into borings and dug trenches; from springs and seeps where groundwater emerges at the surface; and from other sources.

Samples are analyzed for TDS, chlorides, and sulfates , petroleum, metals, or other parameters as appropriate, in order to determine what actions are needed in each case. Because sampling is usually done in response to a complaint, following a known spill, or because of a problem noticed by a field inspector, and is in or near historic oil and gas areas, this data is biased toward the bad. Our sampling data is more likely to show water quality problems much more often than random sampling would.

Corp Comm has begun to list significantly impacted groundwater pollution sites in the OWRB's Appendix H, where the public and water well drillers can be apprised of areas where standard water well installation is inappropriate. Corp Comm is also attempting to utilize this data in conjunction with surface water data to determine potential sources of watershed impairments and/or areas in which corrective action should be taken. For example, many of the salinity impacted streams found to date have no apparent surface source. However, ground water and spring/seep samples taken near some of these streams show that there is an adjacent subsurface brine plume, probably the source for the stream's excess salinity. If the groundwater source for each brine plume could be determined and be intercepted or remediated, the plume(s) could no longer carry pollutants to the streams and cause stream impairments. Corp Comm does not yet have the funding to undertake extensive sampling near impaired streams to determine the potential groundwater sources for all impaired streams.

Corp Comm is also beginning to obtain GPS locations on all oil and gas wells in the State in order to be able to accurately map well distribution and predict possible impacts.

In addition to groundwater sampling, Corp Comm funded a USGS test of a Helicopter borne Electro-Mag (HEM) tool in 25 (twenty-five) square miles in Carter and Stephens counties near salinity impaired streams. HEM can rapidly cover large areas to determine groundwater impairments and surface water/groundwater interaction. Saline polluted groundwater plumes in aquifers, some of which are flowing into and impairing streams in the study area, are now being mapped. Source location is the next step. In addition, Corp Comm is also trying to obtain grant funding to extend this HEM project to the other thousands of square miles of old oilfield areas in the State, in order to determine which if any also have impacted groundwater.

In 1984, OWRB established a monitoring network to determine the ambient quality of major aquifers for the development of numeric groundwater quality standards. Between 1984 and 1992, OWRB collected annual samples from a network of more than 200 domestic, irrigation, stock, and municipal water wells. Samples were analyzed for major ions and metals. Unfortunately, this program was discontinued after nine years of data collection due to lack of funding. However, OWRB continues to conduct sampling of major aquifers as part of their basin studies and Beneficial Use Monitoring Program (BUMP). For example, in 2001 OWRB sampled 61 wells in the Cimarron Alluvium and Terrace aquifer for nutrients and major ions. In 2002, 64 wells in the North Fork of the Red River Alluvium and Terrace aquifer were sampled for major ions.

OWRB has also conducted Statewide monitoring of groundwater *quantity* since 1937 through the mass measurement program, in which water levels in more than 585 wells are measured annually to assess long-term trends in groundwater levels and aquifer storage.

OWRB contracts with Oklahoma Department of Agriculture (with the assistance of an EPA grant) to perform compliance groundwater monitoring at swine Licensed Managed Feeding Operations and the number of observation wells in the annual water level measurement program is approximately 500 beginning 2008.

DEQ has two monitoring programs that address groundwater: the Public Water Supply Compliance Sampling and a 106 Ambient Groundwater Monitoring program. Public water supplies must collect samples at various intervals and locations to determine if the water they serve the public complies with primary drinking water standards as set forth in the Safe Drinking Water Act. Most of these samples are collected at points of entry into the distribution system. The water entering the system at the points of entry can represent one or several groundwater sources. This data is compiled and used to determine areas of contamination and to set expected concentration ranges of various chemical contaminants. Historic data has been compiled going back to the 1920's and future data can be compared to historic ranges to determine changes over time. Intentions are to identify potential concerns before they become major problems.

DEQ's 106 Groundwater Monitoring Program will use public water supply operators to collect samples from 420 randomly selected PWS wells annually. Samples will be analyzed for secondary drinking water parameters and major ions. Data will be used to evaluate and classify groundwater quality and determine aquifer homogeneity. The three years of monitoring data, analyzed, verified, and compiled are available to State agencies, federal agencies, and the citizens of Oklahoma for their use. This information will be available on the Oklahoma Department of Environmental Quality's website at http://www.deq.state.ok.us/WQDnew/groundwater/index.html. Maps of water quality are included here for nitrates, sulfates, and total dissolved solids in the major aquifers. Trends established by this ambient monitoring program can be used to identify sources of polluted runoff that potentially could adversely impact vulnerable groundwater resources.

DEQ has several remediation programs that identify, monitor, and when needed, remediate local sources of ground water pollution from releases at regulated facilities, historical releases, and spills. Most of these sources are very localized and are not included as areas with problems or concerns.

Major Aquifers with Anthropogenic Water Quality Problems or Concerns

Major aquifers are defined as aquifers which can effectively yield 150 gallons per minute or greater. The following information is based on samples submitted to DEQ of domestic wells and through the PWS program. This information is based upon the most recent information provided to this division as of December of 2002. For location of the major groundwater aquifers of Oklahoma, please refer to Figure 9.

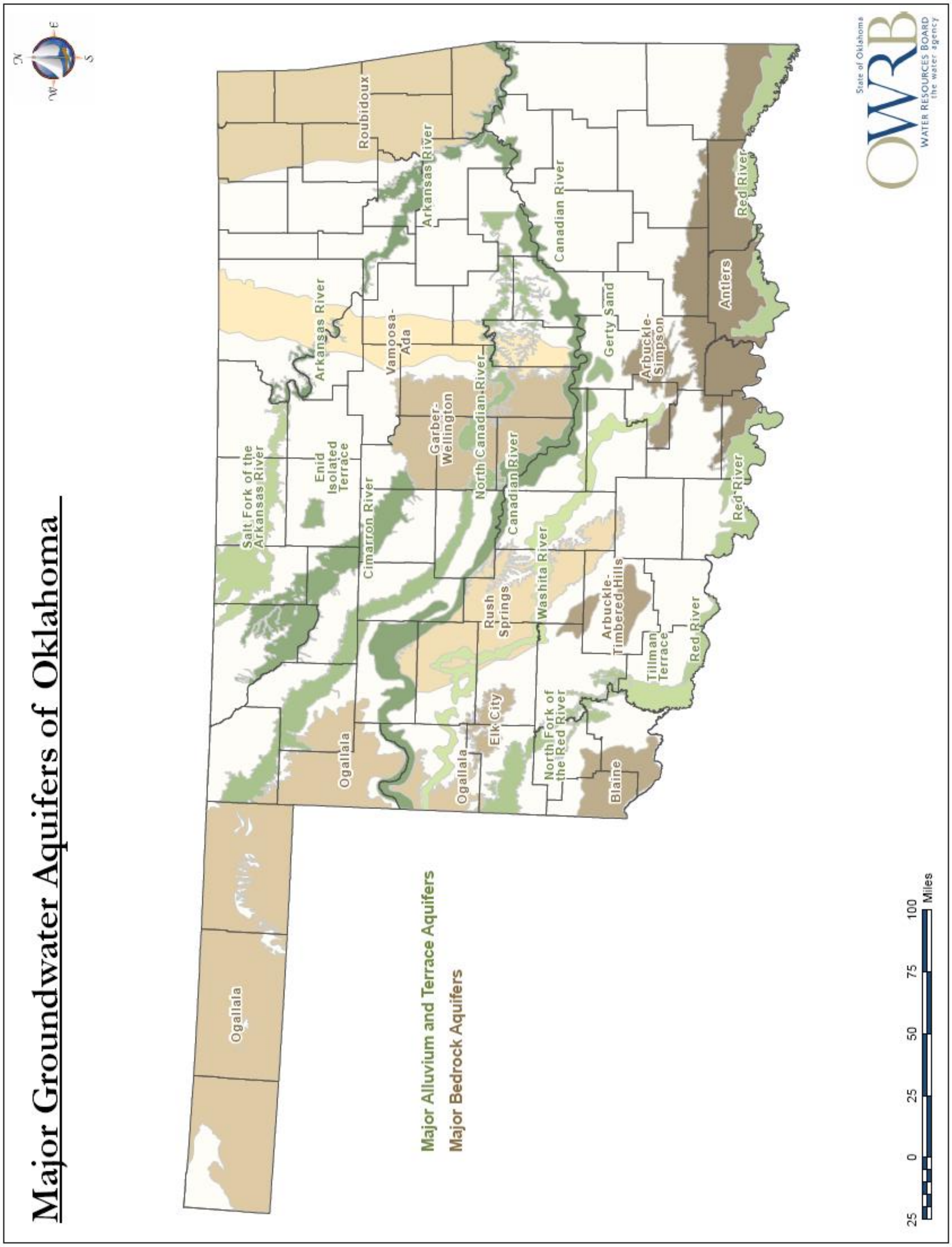
Alluvium and Terrace Deposits of the Salt Fork of the Arkansas River

DEQ has identified several wells and well fields in this aquifer with elevated nitrate levels.

Alluvium and Terrace Deposits of the Arkansas River

DEQ has identified several wells and well fields in this aquifer with elevated nitrate levels.

FIGURE 9. GROUNDWATER AQUIFERS OF OKLAHOMA



Alluvium and Terrace Deposits of the Enid Isolated Terrace Deposits

DEQ has identified a well in this aquifer with elevated nitrate levels.

Alluvium and Terrace Deposits of the Cimarron River

DEQ has identified several wells and well fields in this aquifer with elevated nitrate levels.

Alluvium and Terrace Deposits of the Beaver-North Canadian River

DEQ has identified several wells and well fields in this aquifer with elevated nitrate levels.

Alluvium and Terrace Deposits of the Canadian River

DEQ has identified several wells and well fields in this aquifer with elevated nitrate levels.

Alluvium and Terrace Deposits of the Washita River

DEQ has identified a well field in this aquifer with elevated nitrate levels.

Alluvium and Terrace Deposits of the North Fork of the Red River

DEQ has identified several wells and well fields in this aquifer with elevated nitrate levels.

Alluvium and Terrace Deposits of the Red River

DEQ has identified several wells and well fields in this aquifer with elevated nitrate levels.

Ogallala Formation

DEQ has identified a well field in this aquifer with elevated nitrate levels. Some of the wells showed elevated levels of selenium, probably of natural origin.

Antlers Sandstone

DEQ has identified several monitoring wells in this aquifer with elevated nitrate levels. Some of the wells showed consistently low pH values.

Rush Springs Sandstone

DEQ has identified several wells, monitoring wells and well fields in this aquifer with elevated nitrate levels and a well field with hydrocarbon and chloride contaminations. The contamination is the result of historic oil and gas activities (extraction, refinement, and salt-water disposal).

Garber Sandstone and Wellington Formation

DEQ has identified several wells in this aquifer with gross alpha activity above the maximum allowable limit of 15 pCi/L. The Department has also identified several wells and well fields with selenium contamination. Localized wells and monitoring wells have been identified with industrial solvent contamination. Several wells have been detected with elevated levels of nitrates and chlorides. Arsenic is naturally occurring within this aquifer and several excursions above the new MCL of 10 µg/L have been noted via DEQ source monitoring actions.

Roubidoux Formation

DEQ has identified several newly installed wells in this aquifer that show local elevated iron, sulfate, and total dissolved solid levels in Ottawa County attributed to mine water contamination from historical mining from the Tar Creek Superfund site. The intervening Boone Formation is heavily impacted by the mining and is the source for localized problems within the Roubidoux. DEQ and EPA continue to monitor water quality in this area under the After Action Monitoring Program.

Vamoosa Formation

DEQ has identified several wells in this aquifer with elevated fluoride levels. DEQ, OWRB, and the and the United States Geological Survey (USGS) have identified several wells and well fields with chloride contamination.

The Arbuckle Formation

DEQ has identified several monitoring wells in this aquifer with elevated fluoride levels and a tendency towards excessive hardness. There are no known groundwater based community public drinking water systems experiencing water quality problems. The source appears to be natural and has therefore limited the usefulness of this formation as a drinking water source.

Non-major Aquifers with Anthropogenic Water Quality Problems or Concerns

Non-major aquifers are defined as aquifers which effectively yield less than 150 gallons per minute. The following information is based primarily on individual wells or well fields that were affected by problems. These wells may or may not constitute a public water supply. In most cases, the problem wells are not in use, or have had their water blended with other sources to reduce the contaminant(s) to acceptable level(s). For location of the major aquifers, please refer to the maps "Alluvium and Terrace Deposits in Oklahoma" and "Major Bedrock Aquifers in Oklahoma".

The Boone Formation/Boone Chert/Keokuk and Reeds Springs Formation

DEQ and OWRB have identified several monitoring wells in this aquifer at the Tar Creek Superfund site in Ottawa County with low pH levels and heavy metal contamination. The source of contamination is from historic mining operations. This formation overlays the Roubidoux Formation. The Roubidoux Formation is threatened and locally impacted near several monitoring wells due to the severity of the contamination in the overlaying formations.

The Oscar "A" Formation

DEQ has identified several wells in this aquifer with elevated nitrate levels and gross alpha activity above the maximum allowable limit of 15 pCi/L. These concerns are similar to those expressed for the Garber/Wellington Formation.

McAlester and Hartshorne Formation-Savanna Formation/McAlester Formation/Hartshorne Sandstone Formation

DEQ has identified several monitoring wells in this aquifer with low pH levels, heavy metal contamination, chlorides, and some controlled industrial wastes. The source of contamination is from historic mining operations and off-site disposal pits for oil field and industrial waste.

Walnut Creek Alluvium Deposits

DEQ has identified two well fields in this aquifer with elevated nitrate levels.

Tillman Terrace Deposits

DEQ has identified two well fields in this aquifer with elevated nitrate levels and elevated levels of selenium.

Little Sandy Creek Alluvium Deposits

DEQ has identified a well field in this aquifer with elevated nitrate levels.

West Cache Creek Terrace

DEQ has identified a well field in this aquifer with elevated nitrate levels.

Major Sources of Contamination

The major sources of contamination within the State are listed in Table 28. The basis used for establishing the priority ranking system was based upon information collected from the various monitoring programs (e.g. the monitoring network, the ambient monitoring program and the wellhead protection program and the Tar Creek After-Action Monitoring Program).

TABLE 28. MAJOR SOURCES OF CONTAMINATION

Contaminant Sources	Highest Priority Sources	Factors Considered in Selecting a Contaminant Source[1]	Contaminants[2]
Agricultural Activities			
Agricultural Chemical Facilities			
Animal Feedlots	√	A - C - D - E	E - J
Drainage Wells			
Fertilizer Applications	√	C - E	E
Irrigation Practices	√	C - E	E
Pesticide Applications			
Storage and Treatment Activities			
Land Application	√	C - D - E	D - E - H - J - L
Material Stockpiles			
Storage Tanks (Above Ground)			
Storage Tanks (Underground)	√	A - C - E	D
Surface Impoundments	√	A - C - D - E	D - E - G - H - J - L
Waste Piles	√	C - D	H
Waste Tailings	√	C - D	H
Disposal Activities			
Deep Injection Wells	√	C - D - E	C - D - G - H
Landfills			
Septic Systems	√	A - C - D - E	E - J - L
Shallow Injection Wells			
Other			
Hazardous Waste Generators			
Hazardous Waste Sites			
Industrial Facilities			
Material Transfer Operations			
Mining and Mine Drainage	√	A – C – D - E	H
Pipelines and Sewer Lines			
Salt Storage and Road Salting			
Salt Water Intrusion	√	C - D - E	G - D
Spills		D	D - G
Transportation of Materials		D	D
Urban Runoff			

Contaminant Sources	Highest Priority Sources	Factors Considered in Selecting a Contaminant Source[1]	Contaminants[2]
Other Sources Abandon Wells (Unplugged)	√	A - C - D - E	A - B - D - E - G - J - L - M

KEY TO TABLE 21

1		2	
A.	Human health and/or environmental risk (toxicity)	A.	Inorganic Pesticides
B.	Size of the population at risk	B.	Organic Pesticides
C.	Location of the sources relative to drinking water sources	C.	Halogenated Solvents
D.	Number and/or size of contaminant sources	D.	Petroleum Compounds
E.	Hydrogeologic sensitivity	E.	Nitrate
F.	State findings, other findings	F.	Fluoride
G.	Other	G.	Salinity/Brine
		H.	Metals
		I.	Radionuclides
		J.	Bacteria
		K.	Protozoa
		L.	Viruses
		M.	Any Unlisted Surface Contaminants

Overview of State Groundwater Protection Programs

Table 29 contains a summary of the State groundwater protection programs.

DEQ received authority under HB 2227 and 1002 and S. B. 361 (clean-up bill for HB 1002) to be the lead agency for Oklahoma's Wellhead Protection Program. Due to the variety of potential causes and sources of groundwater contamination, other State environmental agencies are involved in this program. These include the ODAFF, OWRB, OCC, Corporation Commission, Wildlife Department, and the Department of Mines.

TABLE 29. SUMMARY OF THE STATE GROUNDWATER PROTECTION PROGRAMS

Program or Activities	Check if active	Implementation Status	Responsible Agency
Active SARA Title III Program	√	FE	DEQ
Ambient groundwater monitoring system	√	CE	DEQ
Aquifer vulnerability assessment	√	FE	DEQ*
Aquifer mapping	√	CE	OWRB*
Aquifer characterization	√	CE	OWRB*
Comprehensive data management system	√	CE	DEQ
EPA - endorsed Core Comprehensive State Groundwater Protection Program (CSGWPP)	√	CE	DEQ*
Groundwater discharge permits	√	FE	DEQ*
Groundwater Best Management Practices	√	CE - UR	DEQ*
Groundwater legislation	√	CE	OWRB*
Groundwater classification	√	CE	OWRB*

Program or Activities	Check if active	Implementation Status	Responsible Agency
Groundwater quality standards	√	CE	OWRB*
Interagency coordination for groundwater protection initiatives	√	CE	OSE*
Nonpoint source controls	√	UD	OCC*
Pesticides State Management Plan	√	FE	ODAFF
Pollution Prevention Program	√	FE	DEQ
Resource Conservation and Recovery Act (RCRA) Primacy	√	FE	DEQ
Source Water Assessment and Protection Program (SWAP)	√	FE	DEQ
State Superfund	√	CE	DEQ
State RCRA Program incorporating more stringent requirements than RCRA Primacy	√	CE	DEQ
State septic system regulations	√	FE	DEQ
Underground storage tank installation requirements	√	FE	Corp. Comm
Underground Storage Tank Remediation Fund	√	FE	Corp. Comm
Underground Storage Tank Permit Program	√	FE	Corp. Comm
Oil & Gas well drilling, commercial mud pit, and land application permit programs	√	FE	Corp. Comm.
Special protective rules for pit liners and O&G well casing when close to water wells	√	FE	Corp. Comm.
Oil & Gas injection well UIC Program	√	FE	Corp. Comm.
Oil & Gas State abandoned well plugging fund program	√	FE	Corp. Comm.
Oil & Gas surface and groundwater assessment and remediation oversight programs	√	FE	Corp. Comm.
Oil & Gas orphaned and abandoned well site cleanup program (State authorized industry funded)	√	FE	OERB
Oil & Gas base of fresh/treatable water mapping program	√	CE	Corp. Comm.
Underground Injection Control Program	√	FE	DEQ*
Vulnerability assessment for drinking water / wellhead protection	√	CE	DEQ
Well abandonment regulations	√	FE	OWRB*
Wellhead Protection Program (EPA - approved)	√	CE - FE	DEQ
Well installation regulations	√	FE	OWRB*
LMFO Monitoring Well Sampling Program	√	CE	ODAFF

KEY TO TABLE 29

	Implementation Status		**Responsible Agency**
CE	Continuing Efforts	DEQ	Oklahoma Dept. of Environmental Quality
FE	Fully Established	OCC	Oklahoma Conservation Commission
NA	Not Applicable	Corp Comm	Oklahoma Corporation Commission
P	Pending	OWRB	Oklahoma Water Resources Board
UD	Under Development	OSE	Office of the Secretary of Environment
UR	Under Revision	OERB	Oklahoma Energy Resources Board
		ODAFF	Oklahoma Dept. of Agriculture Food and Forestry

Oklahoma's Wellhead Protection Program

DEQ developed its Wellhead Protection Program in accordance with the EPA guidelines set forth under the Safe Drinking Water Act ' 1428 (as amended in 1986). Oklahoma's Wellhead Protection Program is a mechanism to assist local communities in protecting their groundwater based drinking supplies. The goal of the Wellhead Protection Program is to delineate protected areas around a drinking water wellhead. In these protected areas, potential causes and sources of groundwater contamination can be identified and managed thus reducing or eliminating the risk of well contamination.

Under Oklahoma's Wellhead Protection Program, managers of groundwater based drinking water systems may contact DEQ to request technical assistance. The State will also offer technical assistance for such tasks as evaluating the potential for groundwater contamination, determining possible sources of contamination, proposing model ordinances for control of potential sources of contamination, and/or preparing a contingency plan in the event of well contamination. The program advocates land use restrictions around the wellhead. At present, emphasis is placed on the development of contingency plans, educational programs and voluntary implementation of best management practices to reduce or eliminate the need for restrictive regulatory protection.

Groundwater Indicators

DEQ routinely monitors public drinking water wells for nitrates, coliform bacteria, volatile organic compounds and other drinking water quality parameters. DEQ has regulatory authority for public water supplies under 63 O.S. 1981, ' 1-901 *et seq*. The regulations were last amended by the Oklahoma State Board of Health on February 8, 1990 (effective May 25, 1990) and incorporated into DEQ on January 1, 1993 (effective July 1, 1993 and amended July 1, 2003). Table 30 lists the various supply systems with standards violations within the last 5 years. With the exception of nitrate as nitrogen, most of the contaminants are of natural origin. Note that in the "Date Violation Confirmed" column, some violations are of recent discovery and others have been known for several years.

TABLE 30. PUBLIC WATER SUPPLY STANDARDS VIOLATIONS

System Name	County	Aquifer	Date Violation Confirmed	Current Level (mg/L or pCi/L)	Date of Last Analysis Showing Violation
Nitrate, Maximum Allowable Limit – 10 mg/L (ppm)					
Aline	Alfalfa	Cimarron Terrace	2000	13	6/30/2011
Apache	Caddo	Marlow Formation	2011	29.9	6/14/2011
Beckam Co RWD # 1	Beckam	Red River, North Fork Terrace	2009	11	6/3/2010
Bethel Baptist Church	Tillman	Tillman Terrace	2010	14	12/13/2011
Blue Ridge MHP	Payne	Unknown	2009	21	8/8/2013
Canadian Co RWD # 1	Canadian	North Canadian River Alluvium	1994	14	10/28/2013
Canute	Washita	Elk City Sandstone	2009	11	1/17/2013
Carmen	Alfalfa	Cimarron Terrace	1995	11	6/1/2011 10/28/2013
Cotton Co RWD # 2	Cotton	Red River Terrace	2011	15.5	10/23/2013
Country East MHP	Custer	Rush Springs Sandstone	2010	11	8/7/2013
Country Inn Bar	Dewey	Unknown	2010	11	3/15/2010
Currys Bar	Cotton	Red River Terrace	2013	15.5	10.23.2013
Deer Creek	Grant	Arkansas River, Salt Fork Alluvium	1993	11	12/10/2013

System Name	County	Aquifer	Date Violation Confirmed	Current Level (mg/L or pCi/L)	Date of Last Analysis Showing Violation
Fairview Lakeside Golf Course	Blaine	Unknown	2009	11	6/2/2009
Firehouse BBQ Fairhaven TP	Garfield	Unknown Enid Terrace	2013	12	4/18/2013
Fairview	Major	Cimarron Terrace	2012	11	10/12/2012
Felt Schools	Cimarron	Unknown	2013	13	8/7/2013
Fort Cobb	Caddo	Rush Springs Sandstone	2013	11	10.4.2013
Garber Municipal Authority	Garfield	Garber-Wellington	2010	11	6/4/2013
Geary	Blaine	North Canadian Alluvium	2013	17	11/14/2013
Goltry	Alfalfa	Turkey Creek Alluvium	1993	10.7	7/17/2009
Grandfield	Tillman	Red River Terrace	2009	16	12/16/2013
Hang the Rock LLC	Cherokee	Unknown	2012	12	2/27/2012
Harmon Water Corporation	Harmon	Red River, Salt Fork Terrace	2013	13	5/23/2013
Hennessey	Kingfisher	Cimarron River Terrace	2008	11	9/18/2012
Herb Rousey	Cleveland	Unknown	2013	13	7/17/2013
Highpoint MHP	Garfield	Enid Terrace	2009	11.5	9/23/2009
Hinton	Caddo	Rush Springs Sandstone	2010	11	6/3/2010
Hollis	Harmon	Red River, Salt Fork Terrace	1993	13	9/24/2013
Jacks General Store	Major	Cedar Hills Sandstone	2010	11	6/13/2013
Logan Co RWD #2	Logan	Cimarron River Terrace	1993	11	4/12/2013
Loyal	Kingfisher	North Canadian River Alluvium	1998	13	10/28/2013
Magnum PWS	Greer	Red River, North Fork Terrace	2012	11	11/27/2012
Major Co RWD #1	Major	Cimarron Terrace	1996	13	9/24/2013
Margarita Island	Oklahoma	Unknown	2011	21.5	7/1/2011
Merritt Mobile Home Park	Beckham	Unknown	2009	12	6/3/2010
Mooreland	Woodward	North Canadian River Terrace	1993	11	6/7/2011
Mycoland RV & Mobile Home Park	Osage	Arkansas River Alluvium	1993	12.5	2/7/2011
North Blaine Water	Blaine	North Canadian River Alluvium	1993	11	9/24/2013
North Blaine Water	Blaine	Cimarron River Terrace	1993	11	6/3/2009
Okarche	Kingfisher	North Canadian River Alluvium	2001	13	9/24/2013
Okarche RWD	Kingfisher	North Canadian River Alluvium	1988	17	9/24/2013
Old #9	Cleveland	Garber-Wellington	2012	11	10/11/2013
Quartz Mountain Reg Water Authority	Kiowa	Unknown	2011	11	2/8/2011
Raintree Addition	Osage	Arkansas River Alluvium	2000	12	6/18/2009

System Name	County	Aquifer	Date Violation Confirmed	Current Level (mg/L or pCi/L)	Date of Last Analysis Showing Violation
Roger Mills RWD # 2 (RED STAR)	Roger Mills	Washita River Alluvium	2009	13	4/2/2009
Skate Fever	Grady	Unknown	2012	11.9	10.1.2012
Thirsty Water Corp.	Greer	Red River, North Fork Terrace	2005	11	2/8/2011
Tillman CO RWD#1	Tillman	Cache Creek Alluvium	2013	11	2/13/2013
Tipton	Tillman	Tillman Terrace	2010	13	7/3/2012
U.S. Gypsum	N. Canadian River Alluvium	Blaine	2011	15	5/12/2011
VICI	Dewey	Ogallala	2009	11	3/19/2010
Watonga	Blaine	North Canadian Terrace	2012	11	5/23/2012
Waynoka	Woods	Cimarron Terrace	2010	13	3/19/2010
Woodward CO RWD #2	Woodward	Ogallala	2012	11	3/28/2013
Alpha Particles, Maximum Allowable Limits – 15pCi/L					
Bowlegs Lima Water	Seminole	Vamoosa	2009	21	10/29/2009
Colcord PWA	Delaware	Boone Formation	2010	21	2/24/2011
Cookson Hills Christian School	Adair	Roubidoux	2010	16	3/16/2011
Edmond PWA	Oklahoma	Garber-Wellington	2010	17	1/19/2010
Harrah	Oklahoma	Garber-Wellington	2009	62	6/30/2011
Logan Co RWD #1	Logan	Garber-Wellington	2011	16-36	9/4/2012
Meadow Ridge MHP	Pottawatomie	Oscar “A” Formation	2011	40-191	7/29/2011
Nichols Hills	Oklahoma	Garber-Wellington	2010	51	6/7/2010
Norman	Cleveland	Garber-Wellington	2010	16	6/1/2010
Oklahoma Christian University	Oklahoma	Garber-Wellington	2012	22-25	7/15/2013
Pecan Tree estates	Cleveland	Garber Wellington	2011	29-39	4/23/2012
Piedmont	Canadian	Garber-Wellington	2009	17	11/5/2009
Tipton	Tillman	Tillman Terrace	2011	22	12/10/2012
Welch PWA	Craig	Roubidoux	2011	29	4/28/2011
Arsenic, Maximum Allowable Limit – 0.010 mg/L (ppm)					
Applewood MHP	Oklahoma	Garber-Wellington	1985	0.03	1/27/2010
Caddo CO RWD #1 (Lookeba)	Caddo	Rush Springs Sandstone	2012	0.011	5/23/2013
Cedar Ridge Estates Development Co	Logan	Unknown	2007	0.024	4/2/2009
Corn PWA	Washita	Rush Springs Sandstone	2007	0.011	12/6/2012
Cotton CO RWD # 2	Cotton	Red River Terrace	2012	0.013	10/4/2013
Country east MHP	Custer	Rush Springs Sandstone	2012	0.011	7/19/2012
Deer Creek	Grant	Arkansas River, Salt Fork Alluvium	2008	0.011	8/22/2013
Eakly Development Corp	Caddo	Rush Springs Sandstone	2009	0.014	10/28/2013

System Name	County	Aquifer	Date Violation Confirmed	Current Level (mg/L or pCi/L)	Date of Last Analysis Showing Violation
Fairmont	Garfield	Garber-Wellington	2009	0.011	5/23/2013
Grady Co RWD #7 (Ninnekah)	Grady	Rush Springs Sandstone	2009	0.011	9/30/2009
Hinton	Caddo	Rush Springs Sandstone	2009	0.012	9/24/2013
Meridian Water Supply	Logan	Unknown	2010	0.017	10/11/2013
Moore	Cleveland	Garber-Wellington	2008	0.012	6/5/2012
Oklahoma Christian University SA	Oklahoma	Garber-Wellington	2011	0.018	5/9/2012
Weatherford	Custer	Rush Springs Sandstone	2009	0.016	1/13/2012
Benzene, Maximum Allowable Limits - 0.005 mg/L (ppm)					
Texas CO RWD#1	Texas	Ogallala	2013	0.014	1/30/2013
Beta Particles, Maximum Allowable Limits – 50 pCi/L					
Meadow Ridge MHP	Pottawatomie	Oscar “A” Formation	2009	55-76	7/29/2011
Carbon Tetrachloride, Maximum Allowable Limit – 0.005 mg/L (ppm)					
Garber	Garfield	Garber-Wellington	2009	0. 0.007	5/13/2013
Fluoride, Maximum Allowable Limit – 4.0 mg/L (ppm)					
Three Springs Farm	Cherokee	Unknown	2005	4.9	9/30/2013
Radium combined, Maximum Allowable Limit – 5 pCi/L					
Beaver Co RWD #1 Turpin	Beaver	Ogallala	2009	6	10/13/2009
Choctaw Co RWD #1	Choctaw	Antlers Sand	2009	7	1/18/2013
Colcord PWA	Delaware	Boone Formation	2010	6-17	2/12/2010
Cookson Hills Christian School	Adair	Roubidoux	2010	7	2/24/2011
Shattuck	Ellis	Ogallala	2010	6	2/12/2010
Welch PWA	Graig	Roubidoux	2011	7	4/28/2011
Tetrachloroethylene, Maximum Allowable Limit – 0.005 mg/L (ppm)					
Hillside MHPO Oklahoma CO	Oklahoma	Unknown	2013	0.029	7/12/2013
Selenium, Maximum Allowable Limit – 0.05 mg/L					
Cedar Ridge Estates Development Co	Logan	Unknown	2009	0.06	2/11/2009
McLoud	Pottawatomie	Garber-Wellington	2009	0.06	12/30/2009
Tipton	Tillman	Tillman Terrace	2011	0.053	10/27/2011
Uranium, Maximum Allowable Limit – 0.03 mg/L					
Brooksville	Pottawatomie	Oskar “A” Formation	2012	0.037	3/15/2013
Cedar Ridge Estates Development Co	Logan	Unknown	2008	0.041	2/11/2010

System Name	County	Aquifer	Date Violation Confirmed	Current Level (mg/L or pCi/L)	Date of Last Analysis Showing Violation
Coyle	Logan	Cimarron River Alluvium	2009	0.031	7/9/2012
Harrah	Oklahoma	Garber-Wellington	2009	0.032	2/24/2011
Hollister	Tillman	Unknown	2009	0.036	11/4/2009
Davis Glenn Estates Water Utility	Logan	Cottonwood Ck A	2010	0.035-0.374	4/12/2010
Deer Creek Rural Water Corp	Oklahoma	Garber-Wellington	2010	0.036	2/16/2010
Edmond PWA – Arcadia	Oklahoma	Garber-Wellington	2010	0.032	6/7/2010
Holiday Outt MHP	Oklahoma	N. Canadian River Alluvium	2011	0.035	2/24/2011
Logan Co RWD #1	Logan	Garber-Wellington	2009	0.208	11/8/2012
Meadow Ridge MHP	Pottawatomie	Oscar "A" Formation	2009	0.228	7/29/2011
Meridian Water Supply	Logan	Unknown	2011	0.060	6/28/2011
Moore	Cleveland	Garber-Wellington	2010	0.043	5/26/2010
Nichols Hills	Oklahoma	Garber-Wellington	2010	0.089	6/7/2010
Norman	Cleveland	Garber-Wellington	2010	0.069	6/1/2010
Pecan Tree Estates Addition	Cleveland	Garber-Wellington	2009	0.040	4/23/2012
Piedmont	Canadian	Garber-Wellington	2009	0.233	11/5/2009
Tipton	Tillman	Tillman Terrace	2010	0.034-0.082	12/10/2012

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Appendix A

Oklahoma Waterbody Identification (WBID) System

Waterbody identification (WBID) numbers are established based on a waterbody's location in the State's Water Quality Management Plan. WBIDs are unique identifiers that offer a convenient, unambiguous method of referencing waterbodies within the State of Oklahoma. A complete WBID consists of a two-letter, fourteen-digit identifier.

Example: **OK311500030010_00 -** Elk Creek in southwest Oklahoma

The first two characters define the state code as required by EPA.

"OK …… .. …._.."

The next six digits are derived from Oklahoma's Water Quality Management Planning Basins. The State's seven large, one-digit planning basins are broken down into smaller basins, each identified with a six-digit number.

"OK 311500 .. …._.."

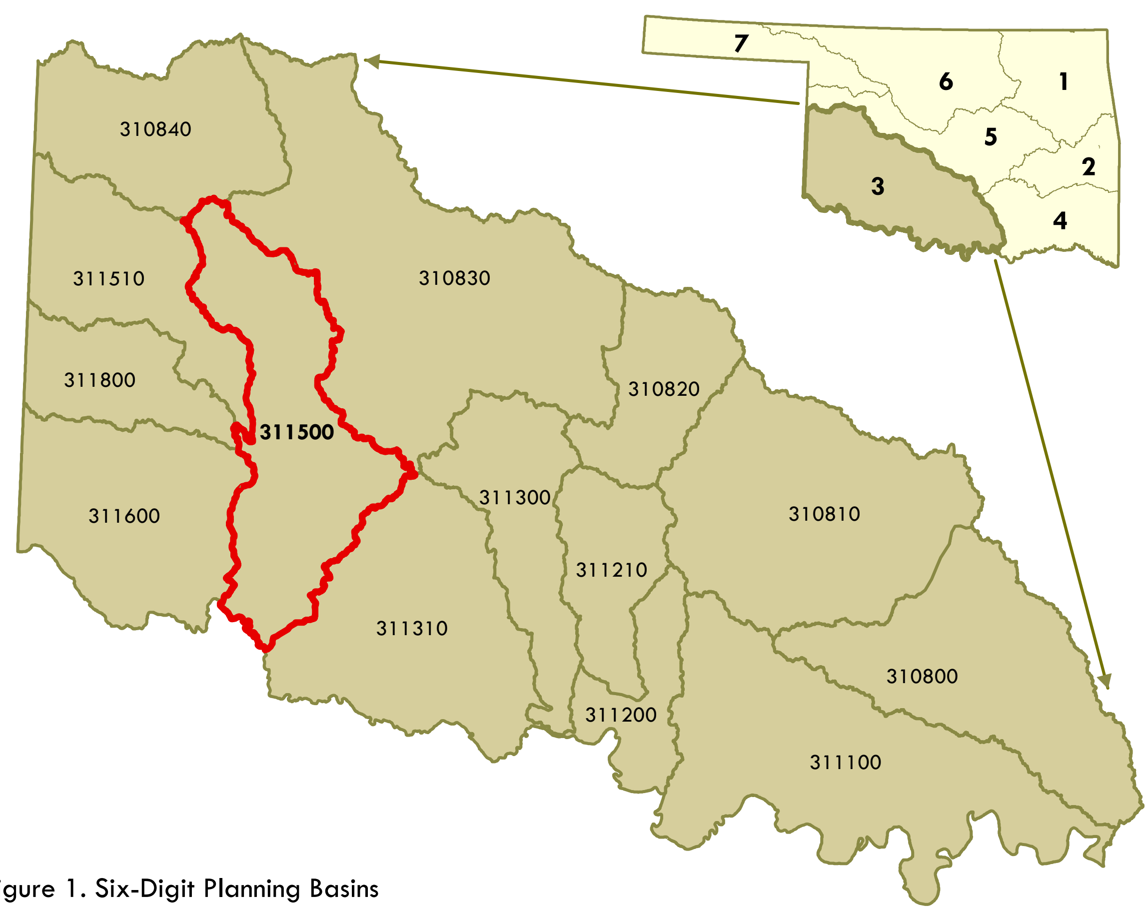


Figure 1. Six-Digit Planning Basins

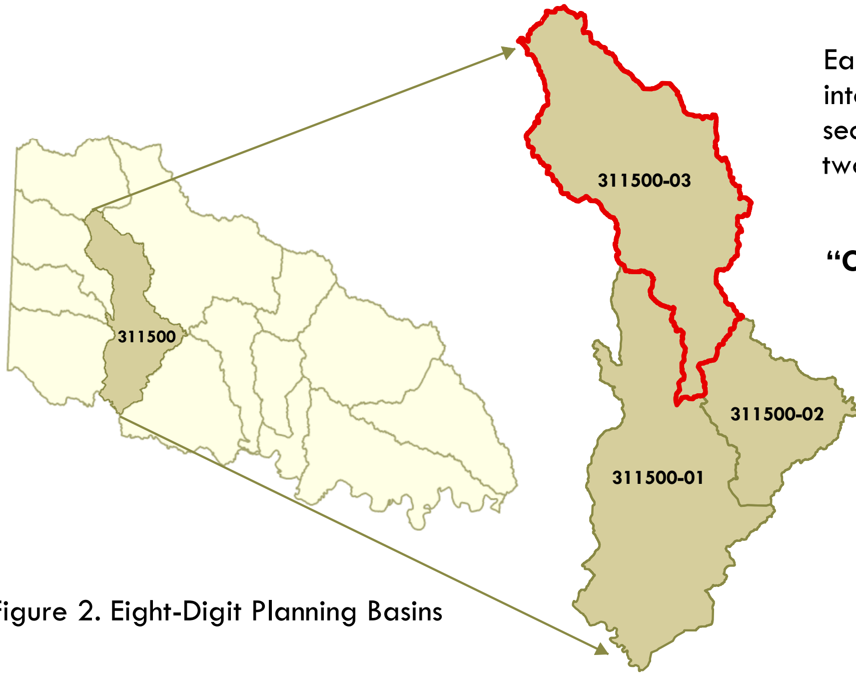


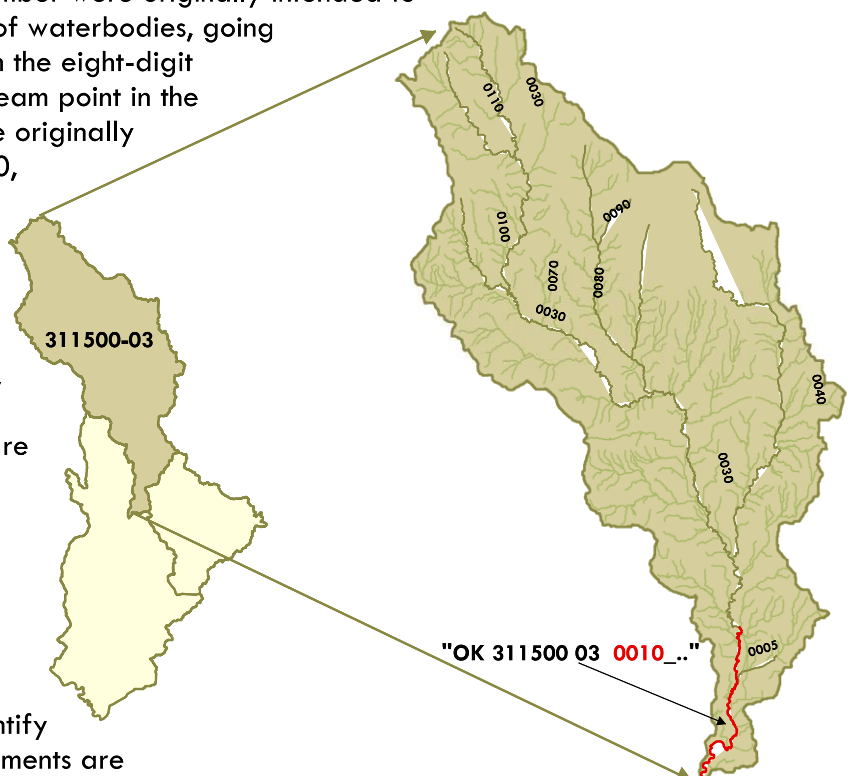
Figure 2. Eight-Digit Planning Basins

Each six-digit basin is divided into a number of smaller sections that are identified by a two-digit number (Figure 2).

"OK 311500 03 …._.."

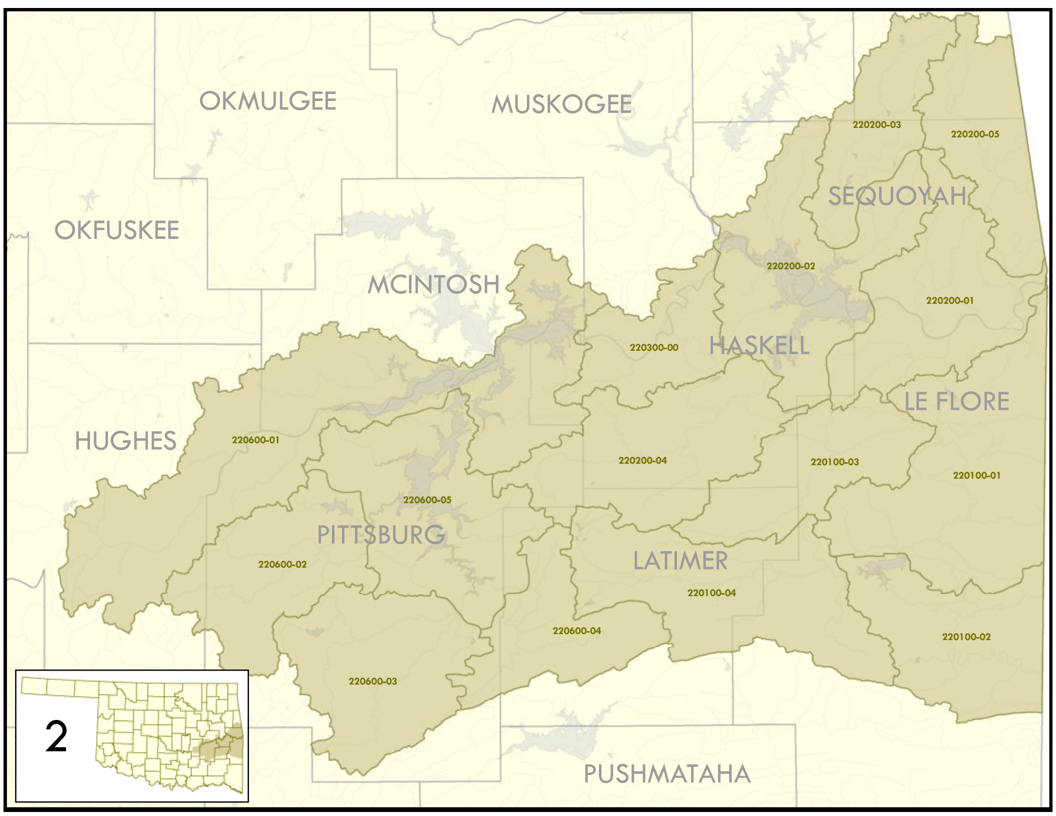
Figure 3. WBID Numbers

The next four digits of a WBID number were originally intended to represent a hydrologic sequence of waterbodies, going from the most downstream point in the eight-digit watershed up to the furthest upstream point in the watershed. These four digits were originally selected by tens (e.g., 0010, 0020, 0030). This provided for the addition of waterbodies while maintaining the hydrologic sequence as much as possible. Not all waterbodies have been assigned an identification number, primarily due to limited resources and need. As more waterbodies are assessed, the WBID system is designed to incorporate a unique identifier for these waterbodies (Figure 3).



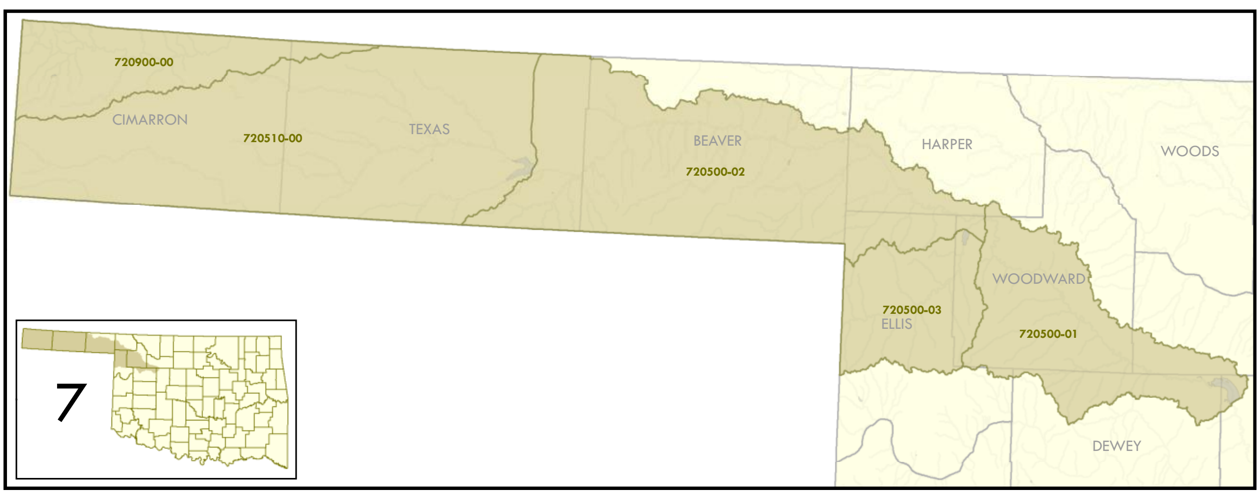
The last two digits of a WBID number allow a waterbody to be segmented further in order to identify specific portions. Waterbody segments are identified by a segment ID made up of an underscore and two additional digits. Waterbodies are initially assigned a segment ID of _00. If additional segmentation is required, upstream segments receive a number higher in value (e.g., _10, _20, _30).

Elk Creek
"OK 311500 03 0010_00"



Oklahoma 8-digit Planning Basins 1 and 2

Oklahoma 8-digit Planning Basins 3 and 4



Oklahoma 8-digit Planning Basins 5, 6, and 7

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Appendix B - 2014 Comprehensive Waterbody Assessment

Waterbody ID	Waterbody Name	Size (Lake Acres or Stream Miles)	Type	Category	Next Monitoring Date	Aesthetic	Agriculture	Cool Water Aquatic Comm	Habitat Limited Aquatic Comm	Trout Fishery	Warm Water Aquatic Comm	Fish Consumption	Navigation	Primary Body Contact Rec	Secondary Body Contact Rec	Public & Private Water Supply	Emergency Water Supply	High Quality Water	Outstanding Resource Water	Sensitive Water Supply
OK120400010010_00	Arkansas River	8.59	R	2	2017	I	X				X	X	F	X			F			
OK120400010030_00	Dog Branch Creek	4.65	R	3	2017	X	X				X	X		X						
OK120400010035_00	Arkansas River, Unnamed Tributary of	1.62	R	3	2017	X	X				X	X		X						
OK120400010040_00	Taylor Creek	4.01	R	3	2017	X	X				X	X		X						
OK120400010050_00	Cedar Creek	4.44	R	3	2017	X	X				X	X		X						
OK120400010070_00	**Webbers Falls Lake**	**11,600**	**L**	**5a**	**2016**	F	F				**N**	F	F	**N**			F			
OK120400010080_00	Big Branch	1.41	R	3	2017	X	X				X	X		X						
OK120400010090_00	Sulphur Branch	4.17	R	3	2017	X	X				X	X		X						
OK120400010110_00	Little Greenleaf Creek	6.96	R	3	2017	X	X				X	X		X						
OK120400010120_00	Greenleaf Creek	15.31	R	2	2014	I	F				I	X		I		X				✓
OK120400010130_00	**Greenleaf Lake**	**920**	**L**	**5a**	**2014**	F	F				**N**	F		F		**N**				✓
OK120400010140_00	Deep Branch	3.92	R	3	2017	X	X				X	X		X		X				✓
OK120400010150_00	Spaniard Creek	1.31	R	3	2017	X	X				X	X		X		X				✓
OK120400010160_00	Spaniard Creek, East	6.21	R	3	2017	X	X				X	X		X		X				✓
OK120400010170_00	Spaniard Creek, West	5.97	R	3	2017	X	X				X	X		X		X				✓
OK120400010180_00	White Oak Creek	3.88	R	3	2017	X	X				X	X		X		X				✓
OK120400010190_00	Gibson Hollow Creek	2.72	R	3	2017	X	X				X	X		X		X				✓
OK120400010200_00	Bob Warren Creek	5.00	R	3	2017	X	X				X	X		X		X				✓
OK120400010210_00	Spaniard Creek	5.76	R	3	2017	X	X				X	X		X						
OK120400010220_00	Coal Creek	3.93	R	3	2017	X	X				X	X		X						
OK120400010230_00	Star Oxbow Lake	1	L	3	2016	X	X				X	X		X						

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Waterbody ID	Waterbody Name	Size (Lake Acres or Stream Miles)	Type	Category	Next Monitoring Date	Aesthetic	Agriculture	Cool Water Aquatic Comm	Habitat Limited Aquatic Comm	Trout Fishery	Warm Water Aquatic Comm	Fish Consumption	Navigation	Primary Body Contact Rec	Secondary Body Contact Rec	Public & Private Water Supply	Emergency Water Supply	High Quality Water	Outstanding Resource Water	Sensitive Water Supply
OK120400010240_00	Sand Creek	5.12	R	3	2017	X	X		X			X			X					
OK120400010250_00	Salt Creek	3.84	R	3	2017	X	X				X	X		X						
OK120400010260_00	Arkansas River	11.17	R	1	2016	F	F				F	F	F	F			F			
OK120400010270_00	Bondinot Creek	7.50	R	3	2017	X	X				X	X		X						
OK120400010280_00	Bayou Manard	14.02	R	3	2017	X	X				X	X		X		X				
OK120400010290_00	Shimoon Creek	2.27	R	3	2017	X	X				X	X		X						
OK120400010300_00	Fort Gibson Creek	3.85	R	3	2017	X	X				X	X		X						
OK120400010310_00	Walker Branch	4.99	R	3	2017	X	X				X	X		X						
OK120400010320_00	Fourmile Branch	4.27	R	3	2017	X	X				X	X		X						
OK120400010330_00	Brooks Branch (Limestone Hollow Creek)	4.26	R	3	2017	X	X				X	X		X						
OK120400010340_00	Hicks Branch	4.87	R	3	2017	X	X				X	X		X						
OK120400010350_00	Fire Branch	2.74	R	3	2017	X	X				X	X		X						
OK120400010360_00	Mill Creek	5.65	R	3	2017	X	X				X	X		X						
OK120400010370_00	Bobtail Creek	6.85	R	3	2017	X	X				X	X		X						
OK120400010380_00	Gulager Spring Branch	4.60	R	3	2017	X	X				X	X		X						
OK120400010390_00	Eureka Springs Branch	3.75	R	3	2017	X	X				X	X		X		X				
OK120400010400_00	Coody Creek	16.16	R	**4a**	2016	F	F				I	X		**N**		I				
OK120400010410_00	Sam Creek	9.24	R	3	2017	X	X				X	X		X						
OK120400010420_00	Corta Creek	5.54	R	3	2017	X	X				X	X		X						
OK120400010430_00	Bacone Creek	2.07	R	3	2017	X	X				X	X		X						
OK120400010440_00	Ross Lake	1	L	3	2016	X	X				X	X		X						
OK120400010450_00	Horseshoe Lake	1	L	3	2016	X	X				X	X		X						

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Waterbody ID	Waterbody Name	Size (Lake Acres or Stream Miles)	Type	Category	Next Monitoring Date	Aesthetic	Agriculture	Cool Water Aquatic Comm	Habitat Limited Aquatic Comm	Trout Fishery	Warm Water Aquatic Comm	Fish Consumption	Navigation	Primary Body Contact Rec	Secondary Body Contact Rec	Public & Private Water Supply	Emergency Water Supply	High Quality Water	Outstanding Resource Water	Sensitive Water Supply
OK120400010460_00	Hyde Park Creek!	1.30	R	3	2017	X	X				X	X		X						
OK120400020010_00	**Dirty Creek**	**44.18**	**R**	**5a**	**2014**	I	F				**N**	X		**N**		F				
OK120400020015_00	Dirty Creek, Unnamed Tributary of	3.39	R	3	2017	X	X		X			X			X					
OK120400020020_00	Sulphur Creek	4.45	R	3	2017	X	X				X	X		X						
OK120400020030_00	**Dirty Creek, South Fork**	**15.55**	**R**	**5a**	**2016**	F	**N**				**N**	X		**N**						
OK120400020040_00	Starvilla Creek	4.68	R	3	2017	X	X				X	X		X						
OK120400020050_00	Pourum Creek	2.11	R	3	2017	X	X				X	X		X						
OK120400020060_00	Pourum Creek, East	4.21	R	3	2017	X	X		X			X			X					
OK120400020070_00	Pourum Creek, West	3.33	R	3	2017	X	X				X	X		X						
OK120400020080_00	Gap Prairie Creek	3.81	R	3	2017	X	X				X	X		X						
OK120400020090_00	Tiener Branch	3.52	R	3	2017	X	X				X	X		X						
OK120400020100_00	Salt Springs Creek	3.35	R	3	2017	X	X				X	X		X						
OK120400020110_00	**Dirty Creek, Georges Fork**	**10.05**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		I	F			
OK120400020120_00	Howland Creek	5.21	R	3	2017	X	X		X						X		X			
OK120400020130_00	Warner Creek	5.92	R	3	2017	X	X				X	X		X						
OK120400020140_00	Warner Lake	13	L	3	2016	X	X				X	X		X		X				
OK120400020150_00	Nebo Creek	6.78	R	3	2017	X	X				X	X		X						
OK120400020160_00	**Butler Creek**	**10.34**	**R**	**5a**	**2016**	I	F				**N**	X		**N**						
OK120400020170_00	Timberley Creek	4.90	R	3	2017	X	X				X	X		X						
OK120400020180_00	Anderson Creek	10.64	R	3	2017	X	X				X	X		X						
OK120400020190_00	**Elk Creek**	**13.96**	**R**	**5a**	**2012**	F	**N**				**N**	X		F						
OK120400020200_00	Wayside Creek	12.53	R	3	2017	X	X				X	X		X						

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Waterbody ID	Waterbody Name	Size (Lake Acres or Stream Miles)	Type	Category	Next Monitoring Date	Aesthetic	Agriculture	Cool Water Aquatic Comm	Habitat Limited Aquatic Comm	Trout Fishery	Warm Water Aquatic Comm	Fish Consumption	Navigation	Primary Body Contact Rec	Secondary Body Contact Rec	Public & Private Water Supply	Emergency Water Supply	High Quality Water	Outstanding Resource Water	Sensitive Water Supply
OK120400020210_00	Honey Springs Branch	2.17	R	3	2017	X	X				X	X		X						
OK120400020220_00	Council Hill Creek	9.93	R	3	2017	X	X				X	X		X						
OK120400020230_00	Checotah Creek	7.09	R	3	2017	X	X				X	X		X						
OK120400020240_00	**Shady Grove Creek**	**10.80**	**R**	**5a**	**2016**	I	**N**				**N**	X		**N**						
OK120400020250_00	Unnamed Trib of Dirty Creek	5.21	R	3	2017	X	X				X	X		X						
OK120400020260_00	Elk Creek, Unnamed Trib of	1.43	R	3	2017	X	X				X	X		X						
OK120410010010_00	Arkansas River	1.80	R	2	2017	X	X				X	X	F		X		F			
OK120410010020_00	Muskogee Creek, North	8.51	R	3	2017	X	X				X	X		X						
OK120410010030_00	Pecan Creek	17.01	R	3	2017	X	X				X	X		X		X				
OK120410010040_00	Taft Creek	3.42	R	3	2017	X	X				X	X		X						
OK120410010050_00	Taft Institute Lake	1	L	3	2016	X	X				X	X		X						
OK120410010060_00	Blue Creek	7.43	R	3	2017	X	X				X	X		X						
OK120410010070_00	Porter Creek	4.89	R	3	2017	X	X				X	X		X						
OK120410010080_00	Arkansas River	41.89	R	**4a**	2016	F	F				F	F	F		**N**		F			
OK120410010080_10	Arkansas River	4.83	R	2	2017	X	X				I	X	F		I		F			
OK120410010090_00	Yellow Water Ditch	8.08	R	3	2017	X	X				X	X		X						
OK120410010100_00	**Cloud Creek**	**4.77**	**R**	**5b**	**2018**	I	**N**				F	X		**N**		I				
OK120410010110_00	Ash Creek	17.71	R	3	2017	I	I				I	X		X		I				
OK120410010120_00	Salt Creek	12.27	R	3	2017	X	X				X	X		X						
OK120410010130_00	Coal Creek	8.18	R	3	2017	X	X				X	X		X						
OK120410010140_00	Haskell Lake	14	L	3	2016	X	X				X	X		X						
OK120410010150_00	Concharty Creek	20.36	R	3	2017	X	X				X	X		X						

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OK120410010160_00	Coweta Creek	8.17	R	3	2017	X	X				X	X		X						
OK120410010170_00	Cedar Creek	8.50	R	3	2017	X	X				X	X		X						
OK120410010180_00	Mountain Creek	7.19	R	3	2017	X	X				X	X		X		X				
OK120410010190_00	Bixhoma Lake	110	L	2	2016	F	F				I	X		F		X				
OK120410010200_00	Broken Arrow Creek	9.85	R	3	2017	I	I				I	X		X						
OK120410010210_00	**Haikey Creek**	**10.90**	**R**	**5a**	**2017**	I	I				**N**	X		**N**						
OK120410010220_00	Snake Creek	31.43	R	**4a**	2015	F	F				I	X		**N**		I				
OK120410010230_00	Haikey Creek, Unnamed Trib of	8.50	R	3	2017	X	X				X	X		X						
OK120410010240_00	Haikey Creek, Unnamed Trib of	5.33	R	3	2017	X	X				X	X		X						
OK120410010250_00	Ash Creek, Unnamed Trib of	1.61	R	3	2017	X	X				X	X		X						
OK120410010260_00	Coal Creek, Unnamed Trib of	6.10	R	3	2017	X	X				X	X		X						
OK120410020010_00	Cloud Creek	11.69	R	2	2012	F	F				I	X		X						
OK120410020020_00	Cane Creek	21.96	R	3	2017	I	X				I	X		X						
OK120410020030_00	Walnut Creek	6.22	R	3	2017	X	X				X	X		X						
OK120410020040_00	Little Cane Creek	10.94	R	3	2017	X	X				X	X		X						
OK120410020050_00	Coal Creek	8.65	R	3	2017	X	X				X	X		X						
OK120410020060_00	Boynton Creek	1.53	R	3	2017	X	X				X	X		X						
OK120410020070_00	Boynton Lake	100	L	3	2014	X	X				X	X		X						
OK120410030020_00	Rock Creek	6.12	R	3	2017	X	X				X	X		X		X				
OK120410030030_00	Duck Creek	12.60	R	2	2017	X	X				F	X		X						
OK120410030040_00	Eagle Creek	11.64	R	3	2017	X	X				X	X		X						
OK120410030050_00	Duck Creek, North	7.56	R	3	2017	X	X				X	X		X						

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Waterbody ID	Waterbody Name	Size (Lake Acres or Stream Miles)	Type	Category	Next Monitoring Date	Aesthetic	Agriculture	Cool Water Aquatic Comm	Habitat Limited Aquatic Comm	Trout Fishery	Warm Water Aquatic Comm	Fish Consumption	Navigation	Primary Body Contact Rec	Secondary Body Contact Rec	Public & Private Water Supply	Emergency Water Supply	High Quality Water	Outstanding Resource Water	Sensitive Water Supply
OK120410030060_00	Duck Creek, Middle	8.80	R	3	2017	X	X				X	X		X						
OK120410030065_00	Middle Duck Creek, Unnamed Trib of	3.20	R	3	2012	X	I				X	X		X						
OK120410030070_00	Duck Creek, South	9.26	R	3	2017	X	X				X	X		X						
OK120410030080_00	Boren Lake	16	L	3	2016	X	X				X	X		X		X				
OK120410030090_00	Bruner Creek	4.29	R	3	2017	X	X				X	X		X						
OK120410030100_00	Rock Creek	6.04	R	3	2017	X	X				X	X		X						
OK120420010010_00	**Arkansas River**	**16.74**	**R**	**5a**	**2016**	F	F				**N**	F	F		**N**		F			
OK120420010010_10	**Arkansas River**	**7.32**	**R**	**5a**	**2017**	X	X				**N**	I	F		I		F			
OK120420010020_00	Twin Hills Creek	10.10	R	3	2017	X	X				X	X		X						
OK120420010025_00	Twin Hills Creek, Unnamed Trib of	1.30	R	3	2016	X	X				X	X		X						
OK120420010030_00	Posey Creek	7.42	R	2	2017	X	X				F	X		X						
OK120420010050_00	Joe Creek	8.38	R	3	2017	I	I				I	X		I						
OK120420010060_00	**Fred Creek**	**2.87**	**R**	**5a**	**2016**	I	I				**N**	X		**N**						
OK120420010070_00	**Mooser Creek**	**3.79**	**R**	**5a**	**2016**	I	I				**N**	X		**N**						
OK120420010080_00	Cherry Creek	4.38	R	3	2017	X	X				X	X		X						
OK120420010090_00	**Crow Creek**	**2.99**	**R**	**5a**	**2017**	I	I				**N**	X		**N**						
OK120420010110_00	Swan Lake	15	L	3	2016	X	X				X	X		X						
OK120420010120_00	Berryhill Creek	4.28	R	3	2017	X	X				X	X		X						
OK120420010130_00	**Arkansas River**	**12.65**	**R**	**5a**	**2016**	F	F				**N**	F	F		F		F			
OK120420010140_00	**Bigheart Creek**	**4.48**	**R**	**5a**	**2016**	I	X				**N**	X		**N**						
OK120420010150_00	Sand Springs Creek, East	2.66	R	3	2017	X	X				X	X		X						
OK120420010160_00	Sand Springs Lake	14	L	3	2016	X	X				X	X		X						

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OK120420010170_00	**Harlow Creek**	**5.69**	**R**	**5a**	**2016**	I	X				**N**	X		**N**						
OK120420010180_00	Prattville Creek	5.63	R	3	2017	X	X				X	X		X						
OK120420010190_00	Sand Springs Creek, West	3.85	R	3	2017	X	X				X	X		X						
OK120420010200_00	Fisher Creek	7.99	R	3	2017	X	X				X	X		X						
OK120420010210_00	Anderson Creek	8.35	R	3	2017	X	X				X	X		X						
OK120420010220_00	Euchee Creek	5.56	R	3	2017	X	X				X	X		X						
OK120420010230_00	Shell Creek	3.62	R	3	2017	X	X				X	X		X		X				
OK120420010240_00	Shell Creek	4.82	R	3	2017	X	X				X	X		X		X				✓
OK120420010250_00	Shell Lake	573	L	2	2016	F	F				I	F		F		F				✓
OK120420010260_00	Phillips Creek	2.51	R	3	2017	X	X				X	X		X		X				✓
OK120420010270_00	Phillips Lake	1	L	3	2016	X	X				X	X		X		X				✓
OK120420010280_00	Mud Creek	5.09	R	3	2017	X	X				X	X		X						
OK120420010290_00	Sand Creek	4.07	R	3	2017	X	X				X	X		X						
OK120420010300_00	Little Sand Creek	2.83	R	3	2017	X	X				X	X		X						
OK120420010310_00	Brush Creek	2.20	R	3	2017	X	X				X	X		X						
OK120420010320_00	Reed Park Creek!	2.52	R	3	2017	X	X				X	X		X						
OK120420010330_00	Little Joe Creek	3.13	R	3	2017	X	X				X	X		X						
OK120420010340_00	**Little Joe Creek, Unnamed Trib of**	**2.19**	**R**	**5c**	**2017**	X	X				**N**	X		X						
OK120420020010_00	Polecat Creek	7.16	R	2	2016	F	F				F	X		F						
OK120420020020_00	Hager Creek	4.04	R	3	2017	X	X				X	X		X						
OK120420020030_00	Coal Creek	2.58	R	3	2017	X	X				X	X		X		X				
OK120420020030_10	Coal Creek	5.51	R	2	2017	I	F		I			X		X		I				

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OK120420020040_00	**Nickel Creek**	**12.29**	**R**	**5a**	**2016**	I	X				F	X		**N**						
OK120420020050_00	**Polecat Creek**	**7.68**	**R**	**5c**	**2017**	I	F				**N**	X		**N**						
OK120420020050_10	Polecat Creek	29.83	R	2	2017	I	F				I	X		X						
OK120420020060_00	**Rock Creek**	**4.05**	**R**	**5c**	**2017**	X	X				**N**	X		X						
OK120420020065_00	Rock Creek, Davis Park Trib!	0.59	R	3	2017	X	X				X	X		X						
OK120420020070_00	Biven Creek	5.74	R	3	2012	X	X				I	X		X						
OK120420020080_00	Euchee Creek	1.41	R	3	2017	X	X				X	X		X						
OK120420020090_00	Middle Lake	1	L	3	2016	X	X				X	X		X		X				
OK120420020100_00	Euchee Creek	7.68	R	3	2017	X	X				X	X		X						
OK120420020110_00	Sapulpa Lake	67	L	3	2016	X	X				X	X		X		X				
OK120420020120_00	Rock Creek	15.03	R	2	2017	I	X				F	X		X		X				✓
OK120420020130_00	**Sahoma Lake**	**312**	**L**	**5a**	**2014**	F	F				**N**	F		F		F				✓
OK120420020140_00	Pretty Water Creek	1.84	R	3	2017	X	X				X	X		X		X				✓
OK120420020150_00	Pretty Water Lake	16	L	3	2016	X	X				X	X		X		X				✓
OK120420020160_00	**Childres Creek**	**7.18**	**R**	**5b**	**2016**	I	**N**		X			X			X					
OK120420020170_00	Skull Creek	3.74	R	3	2017	X	X				X	X		X						
OK120420020180_00	Euchee Creek	6.45	R	3	2017	X	X				X	X		X						
OK120420020190_00	Kenyon Creek	4.31	R	3	2017	X	X				X	X		X						
OK120420020200_00	Jackson Creek	1.38	R	3	2017	X	X				X	X		X		X				
OK120420020210_00	Jackson Lake	55	L	3	2016	X	X				X	X		X						
OK120420020220_00	Jay Bird Hollow Creek	2.38	R	3	2017	X	X				X	X		X						
OK120420020230_00	Mountain Creek	5.42	R	3	2017	X	X				X	X		X						

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OK120420020240_00	Clear Creek	6.38	R	2	2017	I	F				I	X		X						
OK120420020250_00	Warner Creek	1.97	R	2	2017	I	F				I	X		X						
OK120420020260_00	Little Polecat Creek	8.24	R	3	2017	X	X				X	X			X					
OK120420020270_00	Neversweat Creek	4.39	R	3	2017	X	X				X	X		X						
OK120420020280_00	Kettle Creek	3.80	R	3	2017	X	X				X	X		X						
OK120420020290_00	Polecat Creek	20.52	R	3	2017	I	I				I	X		X		X				✓
OK120420020300_00	**Heyburn Lake**	**880**	**L**	**5a**	**2016**	F	F				**N**	**N**		F		I				✓
OK120420020310_00	Browns Creek	7.40	R	2	2012	I	F				I	X		X		I				✓
OK120420020320_00	Tiger Creek	5.64	R	3	2017	X	X				X	X		X		X				✓
OK120420020330_00	Turkey Creek	5.86	R	3	2017	X	X				X	X		X		X				✓
OK120420020340_00	Rowland Creek	2.79	R	3	2017	X	X				X	X		X		X				✓
OK120420020350_00	Mosquito Creek	5.92	R	3	2017	X	X				X	X		X		X				✓
OK120420020360_00	Winkey Branch, East	1.94	R	3	2017	X	X				X	X		X		X				✓
OK120420020370_00	Winkey Branch	3.61	R	3	2017	X	X				X	X		X		X				✓
OK120420020380_00	Dog Creek	5.75	R	3	2017	X	X				X	X		X		X				✓
OK120420020390_00	Figure Eight Creek	6.16	R	3	2017	X	X				X	X		X		X				✓
OK120420020400_00	Deep Creek	4.66	R	3	2017	X	X				X	X		X		X				✓
OK120420020410_00	Scholar Creek	5.55	R	3	2017	X	X				X	X		X		X				✓
OK121300010010_00	Bird Creek	23.81	R	**4a**	2016	F	F				F	F		**N**		F				
OK121300010020_00	Elm Creek	4.69	R	3	2015	X	X				X	X		X						
OK121300010030_00	Mingo Creek	12.69	R	2	2017	X	X				F	X		F			F			
OK121300010035_00	Mingo Creek, Unnamed Tributary of	3.13	R	3	2018	X	X		X						X		X			

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OK121300010040_00	Knudson Creek	2.34	R	3	2015	X	X				X	X		X						
OK121300010050_00	**Mill Creek**	**3.68**	**R**	**5c**	**2017**	I	I				**N**	X		X						
OK121300010055_00	Owasso Creek	2.85	R	3	2015	X	X		X			X			X					
OK121300010057_00	Owasso Creek, Unnamed Tributary of	1.10	R	3	2015	X	X		X			X			X					
OK121300010060_00	Ranch Creek	6.94	R	**4a**	2015	I					I	X		**N**						
OK121300010080_00	Owasso Lake	18	L	3	2016	X	X				X	X		X						
OK121300010090_00	**Coal Creek**	**6.71**	**R**	**5c**	**2017**	I	I				**N**	X		**N**						
OK121300010100_00	Recreation Creek	2.38	R	3	2015	X	X				X	X		X						
OK121300010110_00	Recreation Lake	32	L	3	2016	X	X				X	X		X						
OK121300010120_00	Flat Rock Creek	9.91	R	3	2017	I	I				I	X			X					
OK121300010130_00	Yahola Lake	431	L	3	2016	X	X				X	X		X		X				✓
OK121300010140_00	Dirty Butter Creek	4.21	R	3	2015	X	X		X			X			X					
OK121300010150_00	**Delaware Creek**	**26.26**	**R**	**5a**	**2017**	F	F				**N**	X		**N**		I				
OK121300010160_00	Goose Creek	3.08	R	3	2015	X	X				X	X		X						
OK121300010170_00	Turkey Creek	6.24	R	3	2015	X	X				X	X		X						
OK121300010180_00	Dirty Butter Creek, Unknown Trib of	1.61	R	3	2015	X	X				X	X		X						
OK121300010220_00	Elm Creek, Unnamed Trib of	2.43	R	3	2015	X	X				X	X		X						
OK121300020010_00	Bird Creek	4.24	R	2	2015	F	F				I	F		I		F				
OK121300020010_10	Bird Creek	35.63	R	**4a**	2017	F	F				F	X		**N**		I				
OK121300020030_00	Charley Creek	5.56	R	3	2015	X	X				X	X		X						
OK121300020040_00	Panther Creek	3.01	R	3	2015	X	X				X	X		X						
OK121300020050_00	Skunk Creek	4.33	R	3	2015	X	X				X	X		X						

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OK121300020060_00	Skalall Creek	8.28	R	3	2015	X	X				X	X		X						
OK121300020070_00	Tyner Creek	10.35	R	3	2015	X	X				X	X		X						
OK121300020080_00	Candy Creek	16.95	R	2	2015	F	F				I	X		I		I				
OK121300020090_00	Pecan Hollow Creek	0.38	R	3	2015	X	X				X	X		X		X				✓
OK121300020100_00	Avant Public Utility Lake	6	L	3	2016	X	X				X	X		X		X				
OK121300020110_00	Avant Municipal Lake	1	L	3	2016	X	X				X	X		X						
OK121300020120_00	Little Candy Creek	6.61	R	3	2015	X	X				X	X		X						
OK121300020130_00	Tucker Creek	5.29	R	3	2015	X	X				X	X		X						
OK121300020140_00	Avant Creek	2.67	R	3	2015	X	X				X	X		X						
OK121300020150_00	Bull Creek	8.01	R	3	2015	X	X				X	X		X						
OK121300020160_00	Clem Creek	4.09	R	3	2015	X	X				X	X		X						
OK121300020170_00	Dog Thresher Creek	8.25	R	3	2015	X	X				X	X		X						
OK121300020180_00	Dog Thresher Creek, Unnamed Trib of	0.98	R	3	2020	X	X				X	X		X						
OK121300020190_00	Waxhoma Lake	197	L	2	2016	F	F				I	F		F		F				
OK121300030010_00	Bird Creek	25.11	R	2	2017	F	F				F	X		I		I				
OK121300030020_00	Birch Creek	0.93	R	3	2015	X	X				X	X		X		X				
OK121300030030_00	Birch Creek	11.44	R	3	2015	X	X				X	X		X		X				✓
OK121300030040_00	**Birch Lake**	**1,137**	**L**	**5a**	**2014**	F	F				**N**	X		F		F				✓
OK121300030050_00	Fourmile Creek	5.80	R	3	2015	X	X				X	X		X		X				✓
OK121300030055_00	Birch Creek, Unnamed Tributary of	3.15	R	3	2015	X	X		X			X			X					✓
OK121300030060_00	Choteau Creek	7.68	R	3	2015	X	X				X	X		X						
OK121300030070_00	Bird Creek, Unnamed Tributary of	2.68	R	3	2015	X	X		X			X			X					

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OK121300030080_00	Pennel Creek	2.89	R	3	2015	X	X				X	X		X						
OK121300030090_00	Red Eagle Branch	3.12	R	3	2015	X	X				X	X		X						
OK121300030100_00	Cedar Creek	4.80	R	3	2015	X	X				X	X		X						
OK121300030110_00	Cochahee Creek	3.94	R	3	2015	X	X				X	X		X						
OK121300030120_00	Nelagone Creek	5.17	R	3	2015	X	X				X	X		X						
OK121300030130_00	Buffalo Creek	5.32	R	3	2015	X	X				X	X		X						
OK121300030140_00	Saucy Calf Creek	4.05	R	3	2015	X	X				X	X		X						
OK121300030150_00	McCormick Creek	2.86	R	3	2015	X	X				X	X		X						
OK121300030160_00	Quapaw Creek	4.43	R	3	2015	X	X				X	X		X						
OK121300030170_00	Rush Creek	2.43	R	3	2015	X	X				X	X		X						
OK121300030180_00	Soldier Creek	4.02	R	3	2015	X	X				X	X		X						
OK121300030190_00	Mud Creek	2.53	R	3	2015	X	X				X	X		X						
OK121300030200_00	Clear Creek	20.09	R	2	2017	F	F				I	X		I		X				
OK121300030210_00	Cedar Canyon Creek	3.37	R	3	2015	X	X				X	X		X						
OK121300030220_00	Pawhuska Creek	1.97	R	3	2015	X	X				X	X		X						
OK121300030230_00	**Pawhuska Lake**	**96**	**L**	**5b**	**2016**	F	**N**				I	I		F		I				
OK121300030240_00	Higgins Creek	3.07	R	3	2015	X	X				X	X		X						
OK121300030250_00	Maher Creek	2.84	R	3	2015	X	X				X	X		X						
OK121300030260_00	Baconrind Creek	5.81	R	3	2015	X	X				X	X		X						
OK121300030270_00	Mud Creek	5.02	R	3	2015	X	X				X	X		X						
OK121300030280_00	Bird Creek, Middle	2.19	R	3	2015	X	X				X	X		X		X				✓
OK121300030290_00	Bird Creek, Middle	10.44	R	3	2015	X	X				I	X		X		X				✓

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OK121300030300_00	**Bluestem Lake**	**762**	**L**	**5a**	**2016**	F	F				**N**	X		F		F				✓
OK121300030310_00	Bird Creek, South	5.39	R	3	2015	X	X				X	X		X		X				✓
OK121300030320_00	Bird Creek, North	19.55	R	2	2015	F	F				I	X		I						
OK121300030330_00	Hickory Creek	4.11	R	3	2015	X	X				X	X		X						
OK121300040010_00	**Hominy Creek**	**12.75**	**R**	**5a**	**2017**	F	F				**N**	X		**N**		I				
OK121300040020_00	Rock Creek	10.40	R	3	2015	X	X				X	X		X						
OK121300040030_00	Quapaw Creek	8.84	R	2	2015	X	X				F	X		X						
OK121300040040_00	Battle Creek	6.31	R	3	2015	X	X				X	X		X						
OK121300040050_00	Quapaw Creek, East Prong	4.80	R	3	2015	X	X				X	X		X						
OK121300040060_00	Quapaw Creek, West Prong	3.57	R	3	2015	X	X				X	X		X						
OK121300040070_00	Hominy Creek	1.81	R	3	2015	X	X				X	X		X		X				
OK121300040070_10	Hominy Creek	4.93	R	3	2015	X	X				X	X		X		X				✓
OK121300040080_00	Skiatook Lake	10,190	L	2	2014	F	F				I	F		F		F				✓
OK121300040090_00	Tall Chief Creek	2.16	R	3	2015	X	X				X	X		X						
OK121300040140_00	Tall Chief Creek Lake	8	L	3	2016	X	X				X	X		X						
OK121300040150_00	Lost Creek	5.57	R	3	2015	X	X				X	X		X						
OK121300040160_00	Turkey Creek	4.79	R	3	2015	X	X				X	X		X						
OK121300040170_00	Cedar Creek	2.34	R	3	2015	X	X				X	X		X						
OK121300040180_00	Bull Creek	4.53	R	3	2015	X	X				X	X		X						
OK121300040190_00	Cedar Canyon Creek	5.03	R	3	2015	X	X				X	X		X						
OK121300040200_00	Eagle Creek	2.00	R	3	2015	X	X				X	X		X						
OK121300040210_00	Wildhorse Creek	8.40	R	3	2015	X	X				X	X		X						

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OK121300040220_00	Buck Creek	8.51	R	3	2015	X	X				X	X		X						
OK121300040230_00	Boar Creek	12.12	R	3	2015	X	X				X	X		X						
OK121300040240_00	Cedar Creek	5.46	R	3	2015	X	X				X	X		X						
OK121300040250_00	Sand Creek	6.82	R	3	2015	X	X				X	X		X						
OK121300040260_00	Mahala Creek	8.92	R	3	2015	X	X				X	X		X						
OK121300040270_00	Sunset Creek	7.28	R	3	2015	X	X				X	X		X						
OK121300040280_00	**Hominy Creek**	**33.89**	**R**	**5b**	**2017**	I	**N**				I	X		**N**		I				✓
OK121300040290_00	Penn Creek	13.06	R	3	2015	X	X				X	X		X						
OK121300040300_00	Moshetomoie Creek	6.54	R	3	2015	X	X				X	X		X						
OK121300040310_00	Blackbird Creek	6.91	R	3	2015	X	X				X	X		X						
OK121300040320_00	Claremore Creek	5.14	R	3	2015	X	X				X	X		X		X				✓
OK121300040330_00	Hominy Municipal Lake	165	L	2	2014	F	F				I	F		F		F				✓
OK121300040340_00	Hominy Lake, Lower	19	L	3	2016	X	X				X	X		X						
OK121300040350_00	**Hominy Lake**	**165**	**L**	**5a**	**2016**	F	F				**N**	X		F		F				
OK121300040360_00	Twomile Creek	8.37	R	3	2015	X	X				X	X		X						
OK121300040370_00	Little Hominy Creek	18.91	R	3	2015	X	X				X	X		X						
OK121300040380_00	Bitter Creek	7.83	R	3	2015	X	X				X	X		X						
OK121300040390_00	Happy Hollow Creek	3.03	R	3	2015	X	X				X	X		X						
OK121300040400_00	Niciola Creek (Nicicold)	8.86	R	3	2015	X	X				X	X		X						
OK121300040410_00	Hellroaring Creek	2.48	R	3	2015	X	X				X	X		X						
OK121300040420_00	Rainbow Creek	4.57	R	3	2015	X	X				X	X		X						
OK121300040430_00	Turkey Run	3.02	R	3	2015	X	X				X	X		X						

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OK121300040440_00	Dollie Hollow Creek	3.05	R	3	2015	X	X				X	X		X						
OK121300040450_00	Moraledge Gulch	2.45	R	3	2015	X	X				X	X		X						
OK121300040460_00	Daniels Run	3.29	R	3	2015	X	X				X	X		X						
OK121400010010_00	Caney River	17.66	R	3	2015	X	X				X	X		X		X				
OK121400010010_10	**Caney River**	**46.50**	**R**	**5a**	**2016**	I	F				**N**	**N**		**N**		I				
OK121400010020_00	Hobbs Creek	1.46	R	3	2015	X	X				X	X		X						
OK121400010040_00	Collinsville Lake	10	L	3	2016	X	X				X	X		X						
OK121400010050_00	East Creek	5.46	R	3	2015	X	X				X	X		X						
OK121400010060_00	Horsepen Creek	9.75	R	3	2015	X	X				X	X		X						
OK121400010070_00	Blackjack Creek	6.31	R	3	2015	I	X				I	X		X						
OK121400010080_00	Cherry Creek	4.87	R	3	2015	X	X				X	X		X						
OK121400010090_00	Rabb Creek	5.64	R	2	2015	I	F				F	X		F		X				
OK121400010100_00	Saunders Creek	8.19	R	3	2015	X	X				X	X		X						
OK121400010110_00	Lacy Creek	5.37	R	3	2015	X	X				X	X		X						
OK121400010120_00	Bevan Creek	7.52	R	3	2015	X	X				X	X		X						
OK121400010130_00	Buck Creek	7.48	R	3	2015	X	X				X	X		X						
OK121400010140_00	Double Creek	7.17	R	3	2015	X	X				X	X		X						
OK121400010150_00	Double Creek, North Fork	7.86	R	3	2015	X	X				X	X		X						
OK121400010160_00	Double Creek Lake # 1	1	L	3	2016	X	X				X	X		X						
OK121400010170_00	Double Creek Lake # 6	1	L	3	2016	X	X				X	X		X						
OK121400010180_00	Nellie Bly Creek	3.99	R	3	2015	X	X				X	X		X		X				
OK121400010200_00	Todd Lake	14	L	3	2016	X	X				X	X		X						

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OK121400010210_00	Double Creek Lake # 4	1	L	3	2016	X	X				X	X		X						
OK121400010220_00	Double Creek, South Fork	4.74	R	3	2015	X	X				X	X		X						
OK121400010230_00	Double Creek Lake # 3	1	L	3	2016	X	X				X	X		X						
OK121400010240_00	Double Creek Lake # 2	1	L	3	2016	X	X				X	X		X						
OK121400010250_00	Stick Creek (Slick)	2.53	R	3	2015	X	X				X	X		X						
OK121400010260_00	Timberlake Creek	3.54	R	2	2015	I	F				I	I		F						
OK121400010270_00	**Curl Creek**	**17.27**	**R**	**5a**	**2016**	F	F				**N**	X		**N**						
OK121400010280_00	Fourmile Creek	9.92	R	3	2015	X	X				X	X		X						
OK121400010290_00	Purgatory Creek	6.92	R	3	2015	X	X				X	X		X						
OK121400010300_00	**Hogshooter Creek**	**20.02**	**R**	**5a**	**2016**	F					**N**	X		**N**						
OK121400010310_00	Fish Creek	12.04	R	3	2015	X	X				X	X		X						
OK121400010320_00	Keeler Creek	5.44	R	3	2015	X	X				X	X		X						
OK121400010322_00	East Keeler Creek	2.25	R	3	2015	X	X		X			X			X					
OK121400010330_00	Rice Creek	5.71	R	3	2015	X	X				X	X		X						
OK121400020010_00	Caney River	4.50	R	3	2015	X	X				X	X		X		X				
OK121400020010_10	**Caney River**	**25.54**	**R**	**5c**	**2018**	X	X				**N**	I		X		I				
OK121400020030_00	Turkey Creek	5.34	R	3	2015	X	X				X	X		X						
OK121400020040_00	Coon Creek	21.05	R	3	2015	X	X				X	X		X		X				
OK121400020050_00	Deer Creek	6.47	R	3	2015	X	X				X	X		X						
OK121400020060_00	Limestone Draw	5.47	R	3	2015	X	X				X	X		X						
OK121400020070_00	Cedar Creek	8.35	R	3	2015	X	X				X	X		X						
OK121400020080_00	Butler Creek	12.28	R	3	2015	X	X				X	X		X						

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OK121400020090_00	Hudson Lake	250	L	2	2016	F	F				I	F		F		F				
OK121400020100_00	Johnson Lake	1	L	3	2016	X	X				X	X		X						
OK121400020120_00	Bar-Dew Lake	34	L	3	2016	X	X				X	X		X						
OK121400020130_00	Post Oak Creek	8.05	R	3	2015	X	X				X	X		X						
OK121400020140_00	Little Caney River (Caney Creek)	6.85	R	**4a**	2016	F	F				**N**	X		**N**		I				
OK121400020150_00	Brush Creek	8.36	R	3	2015	X	X				X	X		X						
OK121400020160_00	Long Lake Creek	0.50	R	3	2015	X	X				X	X		X						
OK121400020170_00	Long Lake	1	L	3	2016	X	X				X	X		X						
OK121400020180_00	Young Lake	1	L	3	2016	X	X				X	X		X						
OK121400020190_00	Mission Creek	18.22	R	**4a**	2016	F	F				F	X		**N**						
OK121400020200_00	Hay Hollow Creek	3.27	R	3	2015	X	X				X	X		X						
OK121400020210_00	Coon Creek	9.23	R	3	2015	X	X				X	X		X						
OK121400020220_00	Lost Creek	4.11	R	3	2015	X	X				X	X		X						
OK121400020230_00	Possum Creek	4.60	R	3	2015	X	X				X	X		X						
OK121400030010_00	Caney River	13.46	R	2	2018	X	X				F	X		X		X				
OK121400030020_00	**Hulah Lake**	**3,570**	**L**	**5a**	**2016**	I	F				**N**	I		F		I				
OK121400030030_00	Skull Creek	3.26	R	3	2015	X	X				X	X		X		X				
OK121400030040_00	Hickory Creek	2.28	R	3	2015	X	X				X	X		X		X				
OK121400030050_00	Thunderbolt Creek	0.95	R	3	2015	X	X				X	X		X		X				
OK121400030060_00	Hickory Creek, East	0.53	R	3	2015	X	X				X	X		X		X				
OK121400030080_00	Turkey Creek	6.24	R	3	2015	X	X				X	X		X		X				
OK121400030090_00	Pond Creek	22.25	R	2	2018	X	X				F	X		X		X				

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OK121400030100_00	Birch Creek	7.19	R	3	2015	X	X				X	X		X		X				
OK121400030110_00	Spring Creek	6.77	R	3	2015	X	X				X	X		X		X				
OK121400030120_00	Fox Creek, North	3.54	R	2	2018	X	X				F	X		X		X				
OK121400030130_00	Dry Creek	5.70	R	3	2015	X	X				X	X		X		X				
OK121400030140_00	Pond Creek, South Fork	4.71	R	3	2015	X	X				X	X		X		X				
OK121400030150_00	Coon Creek	0.82	R	3	2015	X	X				X	X		X		X				
OK121400030160_00	Cedar Creek	0.78	R	3	2015	X	X				X	X		X		X				
OK121400030170_00	**Buck Creek**	**22.22**	**R**	**5a**	**2018**	I	F				**N**	X		**N**		I				
OK121400030180_00	Smith Creek	5.64	R	3	2015	X	X				X	X		X		X				
OK121400030190_00	Dog Creek	7.04	R	3	2015	X	X				X	X		X		X				
OK121400030200_00	Buck Creek, South	5.81	R	3	2015	X	X				X	X		X		X				
OK121400040010_00	**Sand Creek**	**59.85**	**R**	**5a**	**2018**	I	F				**N**	X		**N**		I				
OK121400040020_00	Eliza Creek	5.62	R	3	2015	X	X				X	X		X						
OK121400040030_00	Jessie Creek	4.38	R	3	2015	X	X				X	X		X						
OK121400040040_00	Panther Creek	7.39	R	3	2015	X	X				X	X		X						
OK121400040050_00	Buck Creek	17.61	R	2	2015	I	F				I	X		I		I				
OK121400040060_00	Turkey Creek	2.83	R	3	2015	X	X				X	X		X						
OK121400040070_00	Doe Creek	3.09	R	3	2015	X	X				X	X		X						
OK121400040080_00	Cedar Creek	3.71	R	3	2015	X	X				X	X		X						
OK121400040090_00	Ranch Creek	2.76	R	3	2015	X	X				X	X		X						
OK121400040100_00	Little Rock Creek	8.61	R	3	2015	X	X				X	X		X						
OK121400040120_00	Higo Lake (Wah Shah She)	8	L	3	2016	X	X				X	X		X						

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OK121400040130_00	Clyde Lake	70	L	3	2016	X	X				X	X		X						
OK121400040140_00	Ponce de Leon Spring Lake	1	L	3	2016	X	X				X	X		X						
OK121400040150_00	Whisky Hollow Creek	2.27	R	3	2015	X	X				X	X		X						
OK121400040160_00	Paula Creek	5.71	R	3	2015	X	X				X	X		X						
OK121400040170_00	Lost Creek	4.96	R	3	2015	X	X				X	X		X						
OK121400040180_00	Peters Lake	8	L	3	2016	X	X				X	X		X						
OK121400040190_00	Lookout Lake	7	L	3	2016	X	X				X	X		X						
OK121400040200_00	Rock Creek	13.00	R	2	2018	X	X				F	X		X						
OK121400040210_00	Dry Hollow Creek	2.54	R	3	2015	X	X				X	X		X						
OK121400040220_00	Elm Creek	5.03	R	3	2015	X	X				X	X		X						
OK121400040230_00	Sunset Lake	68	L	2	2016	F	I				I	I		F						
OK121400040250_00	Deer Lake	12	L	3	2016	X	X				X	X		X						
OK121400040260_00	Cedar Creek	8.22	R	3	2015	X	X				X	X		X						
OK121400040270_00	Little Sand Creek	4.64	R	3	2015	X	X				X	X		X						
OK121400040280_00	Mud Creek	5.71	R	3	2015	X	X				X	X		X						
OK121400040290_00	Wild Hog Creek	3.42	R	3	2015	X	X				X	X		X						
OK121400040300_00	Dry Creek	5.90	R	3	2015	X	X				X	X		X						
OK121400050010_00	Little Caney River (Caney Creek)	7.18	R	3	2015	X	X				X	X		X		X				✓
OK121400050020_00	**Copan Lake**	**4,850**	**L**	**5a**	**2018**	I	F				**N**	I		F		**N**				✓
OK121400050030_00	Copan Creek	2.64	R	3	2015	X	X				X	X		X		X				✓
OK121400050040_00	Cotton Creek	16.03	R	3	2015	X	X				X	X		X		X				✓
OK121400050050_00	Pooler Creek	6.29	R	3	2015	X	X				X	X		X		X				✓

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OK121400050060_00	Cotton Creek, North Fork	6.07	R	3	2015	X	X				X	X		X		X				✓
OK121400050070_00	Cotton Valley Creek	5.50	R	3	2015	X	X				X	X		X		X				✓
OK121400050080_00	Owen Creek	1.03	R	3	2015	X	X				X	X		X		X				✓
OK121500010005_00	Arkansas River	0.89	R	2	2015	X	X				X	X	F	X			F			
OK121500010010_00	Verdigris River	3.68	R	3	2015	X	X				X	X		X		X				
OK121500010020_00	Clingham Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010030_00	Clingham Creek	4.91	R	3	2015	X	X				X	X		X						
OK121500010040_00	Big Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010050_00	Big Creek	5.07	R	3	2015	X	X				X	X		X						
OK121500010060_00	Verdigris River	10.82	R	2	2015	X	X				F	X		X		F				
OK121500010070_00	Chouteau Lake	1	L	3	2014	X	X				X	X		X						
OK121500010080_00	Vans Creek	1.48	R	3	2015	X	X				X	X		X						
OK121500010090_00	Vans Lake	1	L	3	2016	X	X				X	X		X						
OK121500010100_00	Coal Creek	9.99	R	3	2015	X	X				X	X		X		X				
OK121500010120_00	Coal Creek Cutoff # 1 Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010130_00	Coal Creek Cutoff # 2 Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010140_00	Tullahassee Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010150_00	Tullahassee Creek	4.41	R	3	2015	X	X				X	X		X						
OK121500010160_00	Strawberry Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010170_00	Strawberry Creek	4.13	R	3	2015	X	X		X			X			X					
OK121500010175_00	Verdigris River, Unnamed Trib of	6.57	R	3	2018	X	X				X	X		X						
OK121500010180_00	Billy Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						

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OK121500010190_00	Billy Creek	10.21	R	3	2015	X	X				X	X		X						
OK121500010200_00	Verdigris River	6.11	R	**4a**	2018	F	F				**N**	F		**N**		F				
OK121500010220_00	Afton Landing Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010230_00	Verdigris Cutoff # 1a Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010240_00	Verdigris Cutoff # 1b Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500010250_00	Gar Creek	9.39	R	3	2015	X	X				X	X		X						
OK121500010260_00	Fife Creek	9.04	R	3	2015	X	X				X	X		X						
OK121500010270_00	Coal Creek	16.14	R	3	2015	X	X				X	X		X		X				
OK121500010280_00	Okay Creek!	2.62	R	3	2015	X	X		X			X			X					
OK121500020010_00	Verdigris River	5.73	R	2	2015	X	X				F	X		X		F				
OK121500020030_00	Osage Mound Cutoff	1	L	3	2016	X	X				X	X		X						
OK121500020050_00	Flagg Lake	1	L	3	2016	X	X				X	X		X						
OK121500020070_00	Legas Lake	1	L	3	2016	X	X				X	X		X						
OK121500020080_00	Bull Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020090_00	**Bull Creek**	**17.55**	**R**	**5a**	**2016**	F	F				**N**	X		**N**						
OK121500020100_00	Pea Creek	10.23	R	**4a**	2014	I	X				I	X		**N**						
OK121500020110_00	Inola Creek	13.79	R	3	2015	X	X				X	X		X						
OK121500020120_00	Verdigris River	2.47	R	3	2015	X	X				X	X		X		X				
OK121500020130_00	Newt Graham Lake	1	L	3	2016	X	X				X	X		X						
OK121500020150_00	**Adams Creek**	**18.02**	**R**	**5a**	**2015**	I	I				I	X		**N**		X				
OK121500020160_00	Snake Den Lake	1	L	3	2016	X	X				X	X		X						
OK121500020170_00	Long Creek	3.13	R	3	2015	X	X				X	X		X						

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OK121500020190_00	Runaround Lake	1	L	3	2016	X	X				X	X		X						
OK121500020200_00	Long Lake	1	L	3	2016	X	X				X	X		X						
OK121500020210_00	Pecan Slough	1.79	R	3	2015	X	X				X	X		X						
OK121500020220_00	Commodore Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020230_00	Commodore Creek	4.55	R	3	2015	X	X				X	X		X						
OK121500020240_00	Big Bottom Cutoff # 1 (33.10) Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020250_00	Big Bottom Cutoff # 2 (33.50) Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020260_00	Verdigris River	18.71	R	**4a**	2018	F	F				**N**	F		**N**		I				
OK121500020260_10	Verdigris River	4.46	R	3	2014	X	X				X	X		X		X				
OK121500020270_00	Salt Creek	7.60	R	3	2015	X	X				X	X			X					
OK121500020275_00	Salt Creek, Unnamed Tributary of	3.14	R	3	2016	X	X		X			X			X					
OK121500020280_00	Fin & Feather Lake	1	L	2	2016	F	I				I	I		F						
OK121500020290_00	Highway 33 Cutoff (37.05) Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020300_00	Big Flag Creek Cutoff (38.15) Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020320_00	Big Flag Lake	1	L	3	2016	X	X				X	X		X						
OK121500020330_00	Little Flag Lake	1	L	3	2016	X	X				X	X		X						
OK121500020340_00	Horseshoe Lake	1	L	3	2016	X	X				X	X		X						
OK121500020350_00	Dog Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020360_00	**Dog Creek**	**10.08**	**R**	**5c**	**2016**	F	F				**N**	X		**N**		I				
OK121500020370_00	Otter Creek	8.32	R	3	2015	X	X				X	X		X						
OK121500020380_00	Panther Creek	13.49	R	3	2015	X	X				X	X		X						
OK121500020390_00	**Cat Creek**	**7.04**	**R**	**5a**	**2015**	I	**N**				**N**	X		**N**			F			

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OK121500020400_00	Chambers Creek	8.33	R	3	2016	X	X				X	X		X						
OK121500020410_00	Canyon Lake	1	L	3	2016	X	X				X	X		X						
OK121500020420_00	Cutoff (44.66) Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020430_00	Mossy Creek	1.72	R	2	2015	X	X		X			X			X		F			
OK121500020440_00	Big Lake Creek	1.25	R	3	2015	X	X				X	X		X						
OK121500020450_00	Big Lake	1	L	3	2016	X	X				X	X		X						
OK121500020460_00	Cutoff (46.95) Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020465_00	Verdigris River, Unnamed Tributary of	2.18	R	3	2016	X	X		X			X			X					
OK121500020470_00	Spunky Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK121500020480_00	Spunky Creek	11.93	R	2	2018	I	I				F	X		F						
OK121500020490_00	Yonkipin Lake	33	L	3	2016	X	X				X	X		X						
OK121500020500_00	Spunky Creek, Unnamed Trib of	4.65	R	3	2016	X	X		X						X					
OK121500030010_00	**Verdigris River**	**10.43**	**R**	**5a**	**2016**	F	F				**N**	F		**N**		I				
OK121500030010_10	Verdigris River	11.99	R	3	2015	X	X				X	X		X		X				
OK121500030030_00	Boggy Creek	4.14	R	3	2015	X	X				X	X		X						
OK121500030040_00	Honey Creek	3.73	R	3	2015	X	X				X	X		X						
OK121500030050_00	Keetonville Creek	3.36	R	3	2015	X	X		X			X			X					
OK121500030060_00	Sweetwater Creek	6.58	R	3	2015	X	X				X	X		X						
OK121500030070_00	Fourmile Creek	13.93	R	3	2015	X	X				X	X		X						
OK121500040010_00	**Dog Creek**	**16.87**	**R**	**5a**	**2018**	I	F				**N**	X		I		I				✓
OK121500040020_00	Claremore Lake	470	L	**4a**	2018	I	F				F	F		F		**N**				✓
OK121500040030_00	Little Dog Creek	5.90	R	3	2015	X	X				X	X		X		X				✓

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OK121510010010_00	Verdigris River	6.08	R	2	2015	X	X				I	X	F	X		X				
OK121510010020_00	**Oologah Lake**	**29,460**	**L**	**5a**	**2016**	F	F				**N**	I	F	F		I				
OK121510010030_00	Blue Creek	2.68	R	3	2015	X	X				X	X		X		X				
OK121510010040_00	**Spencer Creek**	**4.31**	**R**	**5b**	**2018**	I	**N**				I	X		X		I				✓
OK121510010060_00	Chelsea Lake	50	L	3	2016	X	X				X	X		X		X				✓
OK121510010070_00	Talala Creek	1.04	R	3	2015	X	X				X	X		X						
OK121510010080_00	Talala Creek, South Fork	10.36	R	3	2015	X	X				X	X		X						
OK121510010090_00	Talala Creek, North Fork	6.19	R	3	2015	X	X				X	X		X						
OK121510010110_00	**Campbell Creek**	**3.79**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK121510010120_00	**Plumb Creek**	**5.52**	**R**	**5b**	**2015**	I	**N**				I	X		X						
OK121510010130_00	**Lightning Creek**	**14.40**	**R**	**5b**	**2018**	I	**N**				F	X		F		I				
OK121510010140_00	**Panther Creek**	**6.97**	**R**	**5b**	**2018**	I	**N**				F	X		X						
OK121510010150_00	Madden Creek	8.24	R	3	2015	X	X				X	X		X						
OK121510010160_00	Double Creek	0.97	R	3	2015	X	X				X	X		X						
OK121510010170_00	Double Creek, South Fork	7.97	R	3	2015	X	X				X	X		X						
OK121510010180_00	Double Creek, North Fork	8.13	R	3	2015	X	X				X	X		X						
OK121510010190_00	Salt Creek	16.25	R	3	2015	X	X				X	X		X		X				
OK121510010200_00	Kentucky Creek	4.33	R	3	2015	X	X				X	X		X						
OK121510010210_00	Little Salt Creek	6.47	R	3	2015	X	X				X	X		X						
OK121510010220_00	Western Branch	4.30	R	2	2015	I	F				I	X		X		X				
OK121510010230_00	Riley Lake	1	L	3	2016	X	X				X	X		X						
OK121510010240_00	Winganon Creek	2.37	R	2	2015	I	F				I	X		X						

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OK121510020010_00	**Verdigris River**	**37.43**	**R**	**5a**	**2016**	F	F				**N**	F	F	**N**		I				
OK121510020030_00	Riley Creek	3.78	R	3	2015	X	X				X	X		X						
OK121510020050_00	**California Creek**	**25.39**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		I				
OK121510020060_00	Delaware Creek	4.11	R	2	2015	X	X		X			X			X		F			
OK121510020070_00	Morman Creek	9.20	R	3	2015	X	X				X	X		X						
OK121510020080_00	Wolf Creek	4.03	R	3	2015	X	X				X	X		X						
OK121510020090_00	Wolf Creek, South Fork	3.31	R	3	2015	X	X				X	X		X						
OK121510020100_00	Wolf Creek, North Fork	4.17	R	3	2015	X	X				X	X		X						
OK121510020110_00	Little California Creek	6.70	R	3	2015	X	X				X	X		X						
OK121510020120_00	Steamboat Creek	2.66	R	3	2015	X	X				X	X		X						
OK121510020130_00	Cedar Creek	9.23	R	3	2015	X	X				X	X		X						
OK121510020140_00	Fool Creek	1.90	R	3	2015	X	X				X	X		X						
OK121510020150_00	Tucker Creek	5.92	R	3	2015	X	X				X	X		X						
OK121510020170_00	Lenapah Creek	4.89	R	3	2015	X	X				X	X		X						
OK121510020180_00	Goose Neck Creek, East	4.67	R	3	2015	X	X				X	X		X						
OK121510020200_00	Goose Neck Lake	1	L	3	2016	X	X				X	X		X						
OK121510020220_00	Taylor Lake	1	L	3	2016	X	X				X	X		X						
OK121510020230_00	Goose Neck Creek, West	3.56	R	3	2015	X	X				X	X		X						
OK121510020240_00	Hickory Creek	7.66	R	3	2015	X	X				X	X		X						
OK121510020250_00	Snow Creek	7.29	R	2	2018	I	F				I	X		I		I				
OK121510020260_00	Crow Hollow Creek	6.13	R	3	2015	X	X				X	X		X						
OK121510020270_00	Rock Creek (Ross)	7.35	R	3	2015	X	X				X	X		X						

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OK121510020280_00	Melton Lake	1	L	3	2016	X	X				X	X		X						
OK121510020290_00	Opossum Creek	15.72	R	3	2015	X	X				X	X		X						
OK121510020300_00	Noxie Creek	5.44	R	3	2015	X	X				X	X		X						
OK121510020310_00	Vinegar Creek	4.50	R	3	2015	X	X				X	X		X						
OK121510020330_00	Chouteau Lake	1	L	3	2016	X	X				X	X		X						
OK121510020340_00	Onion Creek	0.95	R	3	2015	X	X				X	X		X		X				
OK121510030010_00	Big Creek	34.74	R	**4a**	2016	F	F				F	X		**N**		I				
OK121510030020_00	Childers Creek	2.41	R	3	2015	X	X				X	X		X						
OK121510030030_00	Rogers Mound Creek	2.67	R	3	2015	X	X				X	X		X						
OK121510030040_00	Coal Creek	4.60	R	3	2015	X	X				X	X		X						
OK121510030050_00	Looney Branch	5.46	R	3	2015	X	X				X	X		X						
OK121510030060_00	Blue Canyon Creek	4.53	R	3	2015	X	X				X	X		X						
OK121510030070_00	Notch Mound Creek	5.34	R	3	2015	X	X				X	X		X						
OK121510030080_00	Clear Creek	6.49	R	3	2015	X	X				X	X		X						
OK121510030090_00	Brush Creek	14.59	R	3	2015	X	X				X	X		X						
OK121510030100_00	Big Creek, East Fork	9.60	R	3	2015	X	X				X	X		X						
OK121510030110_00	Boggs Creek (Boggs Branch)	6.27	R	3	2015	X	X				X	X		X						
OK121510030120_00	Bethel Creek	2.71	R	3	2015	X	X				X	X		X						
OK121510030130_00	Labette Creek	5.80	R	3	2015	X	X				X	X		X						
OK121510030140_00	Little Labette Creek	3.73	R	3	2015	X	X				X	X		X						
OK121600010010_00	Neosho River	1.00	R	**4a**	2014	I	X				I	I		**N**		X				
OK121600010020_00	Dry Branch	4.82	R	3	2015	X	X				X	X		X						

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OK121600010030_00	Flower Creek	5.68	R	3	2015	X	X				X	X		X						
OK121600010040_00	Neosho River	7.25	R	3	2015	I	X				I	X		X		X				
OK121600010050_00	**Fort Gibson Lake**	**12,464**	**L**	**5a**	**2014**	I	F				**N**	I		I		I				
OK121600010060_00	Ranger Creek	7.94	R	**4a**	2018	F	F				F	X		**N**		X				
OK121600010070_00	Rattlesnake Branch	4.59	R	3	2015	X	X				X	X		X						
OK121600010080_00	Pecan Creek	9.19	R	2	2018	X	X				F	X		X						
OK121600010090_00	Double Springs Creek	15.49	R	2	2018	X	X				F	X		X		X				
OK121600010100_00	Fourteenmile Creek	25.45	R	**4a**	2018	F	F	F				F		**N**		F		✓		
OK121600010110_00	Wolf Hollow Creek	2.54	R	3	2015	X	X				X	X		X						
OK121600010120_00	Lost City Creek	1.19	R	3	2015	X	X				X	X		X						
OK121600010130_00	Black Bird Creek	10.27	R	3	2015	X	X	X				X		X		X				
OK121600010140_00	Money Bean Hollow Creek	2.03	R	3	2015	X	X				X	X		X						
OK121600010160_00	Hickory Creek	3.74	R	3	2015	X	X				X	X		X						
OK121600010200_00	**Fort Gibson Lake, Upper**	**4,814**	**L**	**5a**	**2016**	I	F				**N**	I		I		I				
OK121600010210_00	Clear Creek	12.60	R	3	2015	I	I	I				X		X		X				
OK121600010220_00	Little Clear Creek	8.16	R	3	2015	X	X				X	X		X						
OK121600010230_00	Jane Dennis Creek	3.61	R	3	2015	X	X				X	X		X						
OK121600010250_00	Flat Rock Creek	8.57	R	3	2015	X	X				X	X		X						
OK121600010260_00	Cat Creek	4.48	R	3	2015	X	X				X	X		X						
OK121600010270_00	Big Hollow Creek	2.89	R	3	2015	X	X				X	X		X						
OK121600010280_00	**Neosho River**	**14.26**	**R**	**5a**	**2016**	F	F				**N**	F		F		F				
OK121600010290_00	**Spring Creek**	**39.70**	**R**	**5a**	**2016**	F	F	F				F		**N**		F		✓		

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OK121600010300_00	Pipe Springs Branch (Davis Hollow Creek)	7.01	R	3	2015	X	X				X	X		X						
OK121600010310_00	Hogskin Hollow Creek	1.60	R	3	2015	X	X				X	X		X						
OK121600010320_00	Ballou Branch	2.96	R	3	2015	X	X				X	X		X						
OK121600010330_00	Snake Creek	15.19	R	3	2015	X	X	X				X		X				✓		
OK121600010340_00	Little Spring Creek	4.29	R	3	2015	X	X	X				X		X		X		✓		
OK121600010350_00	Bryant Creek	5.38	R	3	2015	X	X				X	X		X						
OK121600010360_00	Blacksmith Hollow Creek	5.04	R	3	2015	X	X				X	X		X						
OK121600010370_00	Dry Hollow Creek	2.54	R	3	2015	X	X				X	X		X						
OK121600010380_00	Yokum Hollow Creek	2.05	R	3	2015	X	X				X	X		X						
OK121600010390_00	Double Spring Creek	8.12	R	3	2015	X	X	X				X		X		X				
OK121600010400_00	Lowrey Creek	5.11	R	3	2015	X	X				X	X		X						
OK121600010410_00	Twin Oaks Creek	5.20	R	3	2015	X	X				X	X		X						
OK121600010420_00	Brush Creek	9.70	R	3	2015	X	X				X	X		X						
OK121600010430_00	**Chouteau Creek**	**22.25**	**R**	**5a**	**2016**	I	F				**N**	X		**N**		I				
OK121600010432_00	Chouteau Creek, Unnamed Trib of	3.31	R	3	2018	X	X		X			X			X					
OK121600010435_00	Chouteau Creek Tributary	4.44	R	3	2018	X	X				X	X			X					
OK121600010440_00	Crutchfield Branch	5.07	R	**4a**	2015	I	X				I	X		**N**						
OK121600010450_00	Chapel Branch	4.25	R	3	2015	X	X				X	X		X						
OK121600020010_00	Neosho River	1.26	R	3	2015	X	X				I	X		X		X				
OK121600020020_00	Hudson Lake, Lower	5,802	L	2	2016	F	F				I	I		F		I				
OK121600020030_10	Saline Creek	28.12	R	**4a**	2016	F	I	F				F		**N**		F		✓		
OK121600020040_00	Chimney Rock Lake Creek	0.23	R	3	2015	X	X				X	X		X						

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OK121600020050_00	**WR Holway Reservoir (Chimney Rock Lake)**	**712**	**L**	**5a**	**2016**	F	F				**N**	F		F		F				
OK121600020060_00	Wickliffe Creek	9.34	R	3	2015	X	X				X	X		X						
OK121600020070_00	Little Saline Creek	10.50	R	**4a**	2018	F	I	F				X		**N**		I		✓		
OK121600020080_00	Spade Hollow Creek	6.93	R	3	2015	X	X	X				X		X		X				
OK121600020090_00	Proctor Hollow Creek	6.31	R	3	2015	X	X				X	X		X						
OK121600020100_00	Ben Smith Hollow Creek	2.16	R	3	2015	X	X				X	X		X						
OK121600020110_00	Big Acorn Hollow Creek	2.33	R	3	2015	X	X				X	X		X						
OK121600020120_00	Wolf Creek	6.02	R	3	2015	X	X				X	X		X						
OK121600020140_00	Hudson Lake, Upper	4,021	L	2	2016	F	F				I	I		F		I				
OK121600020150_00	Spavinaw Creek	1.69	R	3	2015	X	X	X				X		X		X				✓
OK121600020160_00	Benge Branch	3.82	R	3	2015	X	X				X	X		X						
OK121600020170_00	**Neosho River**	**10.89**	**R**	**5a**	**2016**	F	F				**N**	F		F		I				
OK121600020180_00	Rock Creek	12.77	R	3	2015	X	X				X	X		X		X				
OK121600020190_00	Big Cabin Creek	1.91	R	3	2015	X	X				X	X		X		X				
OK121600020200_00	Summerfield Creek	10.38	R	2	2018	X	X				F	X		X						
OK121600020210_00	Round Spring Hollow Creek	5.49	R	3	2015	X	X				X	X		X						
OK121600030020_00	**Grand Lake O' the Cherokees, Lower**	**10,051**	**L**	**5a**	**2016**	F	F				**N**	**N**		I		I				
OK121600030030_00	**Grand Lake O' the Cherokees, Middle**	**19,584**	**L**	**5a**	**2012**	F	F				I	**N**		I		I				
OK121600030040_00	**Grand Lake O' The Cherokees, Upper**	**8,670**	**L**	**5a**	**2016**	F	F				**N**	**N**		I		I				
OK121600030070_00	Duck Creek	5.20	R	3	2015	X	X				X	X		X						
OK121600030090_00	Drowning Creek	8.66	R	**4a**	2015	F	F	F				X		**N**		I				
OK121600030100_00	Woods Springs Branch	3.98	R	3	2015	X	X				X	X		X						

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OK121600030110_00	Muskrat Hollow Creek	5.45	R	3	2015	X	X				X	X		X						
OK121600030120_00	Jay Creek	3.35	R	3	2015	X	X		X			X		X						
OK121600030130_00	Sweetwater Hollow Creek	2.41	R	3	2015	X	X				X	X		X						
OK121600030160_00	**Horse Creek**	**10.06**	**R**	**5a**	**2015**	I	**N**				**N**	X		**N**			F			
OK121600030180_00	Fly Creek	3.36	R	2	2014	F	F				I	X		I						
OK121600030190_00	**Little Horse Creek**	**6.46**	**R**	**5a**	**2018**	I	F				**N**	X		**N**						
OK121600030200_00	Oseuma Creek	4.28	R	3	2015	X	X				X	X		X						
OK121600030230_00	Woodward Hollow Creek	3.78	R	3	2015	X	X				X	X		X						
OK121600030250_00	Courthouse Hollow Creek	2.01	R	3	2015	X	X				X	X		X						
OK121600030295_00	Scraper Creek!	4.60	R	3	2015	X	X				X	X		X						
OK121600030310_00	Elm Creek	6.18	R	3	2015	X	X	X				X		X		X				
OK121600030320_00	Whitewater Creek	14.74	R	2	2015	I	F	F				X		I		I				
OK121600030330_00	Snail Creek	3.93	R	3	2015	X	X				X	X		X						
OK121600030340_00	**Cave Springs Branch**	**4.48**	**R**	**5b**	**2016**	I	**N**	I				I		**N**		I		✓		
OK121600030390_00	Wolf Creek	7.06	R	3	2015	X	X				X	X		X						
OK121600030410_00	Spring Branch	3.01	R	3	2015	X	X				X	X		X						
OK121600030420_00	Hickory Creek	4.34	R	3	2015	X	X				X	X		X						
OK121600030440_00	Elk River	3.29	R	2	2016	F	F	F				F		F		I				
OK121600030445_00	Honey Creek	4.85	R	**4a**	2016	F	F	F				F		**N**		I		✓		
OK121600030445_10	Honey Creek	4.64	R	**4a**	2016	I	I	F				X		**N**		X		✓		
OK121600030460_00	Carr Branch	4.97	R	3	2015	X	X				X	X		X						
OK121600030470_00	Buffalo Creek	2.51	R	3	2015	I	I				X	X		X						

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OK121600030490_00	Council Hollow Creek	5.22	R	3	2015	X	X	X				X		X		X				
OK121600030510_00	Sycamore Creek	7.36	R	**4a**	2016	I	F	I				X		**N**		I				
OK121600030520_00	Brush Creek	6.55	R	3	2015	I	I	I				X		X		X				
OK121600030530_00	Roark Creek	2.41	R	3	2015	X	X				X	X		X						
OK121600030540_00	Mason Springs Valley Creek	1.50	R	3	2015	X	X				X	X		X						
OK121600030550_00	Ogeechee Creek	3.65	R	3	2015	X	X				X	X		X						
OK121600030560_00	Lost Creek	10.23	R	2	2015	F	F	F				X		I		I				
OK121600030570_00	Modoc Valley Creek	5.53	R	3	2015	X	X				X	X		X						
OK121600040010_00	**Neosho River**	**16.57**	**R**	**5a**	**2015**	I	F				**N**	F		F		I				
OK121600040040_00	**Hudson Creek**	**8.28**	**R**	**5a**	**2015**	F	F				**N**	X		I						
OK121600040043_00	Hudson Creek, Unnamed Tributary of	4.21	R	3	2015	X	X		X			X			X					
OK121600040050_00	Little Elm Creek	6.92	R	3	2015	I	I				I	X		X						
OK121600040060_00	**Tar Creek**	**11.67**	**R**	**5a**	**2016**				**N**			X			F					
OK121600040062_00	**Blue Goose Mill Pond**	**5**	**L**	**5a**	**2020**	X	X				X	**N**		X						
OK121600040063_00	**Northwest Western Chat Pile Pond**	**1**	**L**	**5a**	**2020**	X	X				X	**N**		X						
OK121600040064_00	**Western Chat Pile Mill Pond**	**1**	**L**	**5a**	**2020**	X	X				X	**N**		X						
OK121600040070_00	Miami Creek	3.41	R	3	2015	X	X				X	X		X						
OK121600040080_00	Garrett Creek	3.39	R	3	2015	X	X				X	X		X						
OK121600040090_00	Quapaw Creek	4.47	R	3	2015	X	X				X	X		X						
OK121600040100_00	Lytle Creek	4.20	R	3	2015	X	X				X	X		X						
OK121600040105_00	**Atlas Chat Pile Pond**	**10**	**L**	**5a**	**2020**	X	X				X	**N**		X						
OK121600040110_00	Coal Creek	9.75	R	3	2015	X	X				X	X		X						

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OK121600040120_00	Neosho River	3.36	R	3	2015	X	X				X	X		X		X				
OK121600040130_00	**Cow Creek**	**12.42**	**R**	**5a**	**2015**	F	F				**N**	X		I						
OK121600040140_00	Windy Creek	4.77	R	3	2015	X	X				X	X		X						
OK121600040150_00	Elm Creek	10.76	R	3	2015	X	X				X	X		X						
OK121600040160_00	Mud Creek	3.25	R	3	2015	X	X				X	X		X						
OK121600040170_00	**Fourmile Creek**	**7.10**	**R**	**5a**	**2015**	I	F				**N**	X		I						
OK121600040180_00	Squaw Creek	5.88	R	3	2015	X	X				X	X		X						
OK121600040190_00	Slow Creek	3.97	R	3	2015	X	X				X	X		X						
OK121600040200_00	**Russell Creek**	**11.48**	**R**	**5a**	**2015**	F	**N**				**N**	X		I						
OK121600040210_00	Elm Creek	5.42	R	3	2015	X	X				X	X		X						
OK121600040220_00	**Neosho River**	**13.97**	**R**	**5a**	**2016**	F	F				**N**	**N**		**N**		I				
OK121600050020_00	**Spavinaw Lake**	**1,584**	**L**	**5a**	**2012**	**N**	F				**N**	F		I		**N**				✓
OK121600050030_00	Chicken Hollow Creek	2.12	R	3	2015	X	X	X				X		X		X				✓
OK121600050040_00	Black Hollow Creek	3.70	R	3	2015	X	X	X				X		X		X				✓
OK121600050050_00	Groundhog Hollow Creek	2.48	R	3	2015	X	X	X				X		X		X				✓
OK121600050060_00	Spavinaw Creek	3.96	R	3	2015	X	X	X				X		X		X				✓
OK121600050070_00	**Eucha Lake (Upper Spavinaw)**	**2,860**	**L**	**5a**	**2016**	**N**	F				**N**	F		F		**N**				✓
OK121600050080_00	Galcatcher Hollow Creek	1.50	R	3	2015	X	X	X				X		X		X				✓
OK121600050090_00	Soldier Hollow Creek	1.26	R	3	2015	X	X	X				X		X		X				✓
OK121600050100_00	Rattlesnake Creek	4.44	R	3	2015	X	X	X				X		X		X				✓
OK121600050110_00	Runaway Hollow Creek	1.69	R	2	2015	I	F	F				X		I		I				✓
OK121600050120_00	Dry Creek	8.34	R	3	2015	X	X	X				X		X		X				✓

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OK121600050130_00	Teesquatnee Hollow Creek	3.79	R	3	2015	X	X	X				X		X		X				✓
OK121600050140_00	Brush Creek	16.51	R	2	2016	I	I	F				X		X		X		✓		
OK121600050150_00	Spavinaw Creek	15.00	R	2	2016	F	I	F				X		F		I				✓
OK121600050160_00	Beaty Creek	12.44	R	**4a**	2016	F	I	F				X		**N**		I		✓		
OK121600050170_00	Town Creek	0.57	R	3	2015	X	X	X				X		X		X				✓
OK121600050180_00	Cloud Creek	12.93	R	**4a**	2016	I	I	F				X		**N**		X				✓
OK121600050190_00	Beartoter Hollow Creek	3.51	R	3	2015	X	X	X				X		X		X				✓
OK121600050200_00	Hog Eye Creek	5.83	R	3	2015	X	X	X				X		X		X				✓
OK121600050210_00	Beamer Hollow Creek	3.03	R	3	2015	X	X	X				X		X		X				✓
OK121600050220_00	Cherokee Creek	7.50	R	3	2015	X	X	X				X		X		X				✓
OK121600050230_00	Coon Creek	0.28	R	3	2015	X	X	X				X		X		X				✓
OK121600060010_00	Big Cabin Creek	6.13	R	2	2015	I	F				I	I		I		I				
OK121600060020_00	Granny Branch	3.24	R	3	2015	X	X				X	X		X						
OK121600060030_00	Elm Creek	6.13	R	3	2015	X	X				X	X		X						
OK121600060040_00	Mustang Creek	8.78	R	3	2015	X	X				X	X		X						
OK121600060060_00	Big Cabin Creek	5.34	R	2	2015	I	F				I	I		F		I				
OK121600060060_10	**Big Cabin Creek**	**4.16**	**R**	**5b**	**2016**	F	**N**				F	F			F					
OK121600060070_00	White Oak Creek	14.24	R	3	2015	I	I				I	X		X						
OK121600060080_00	**Little Cabin Creek**	**32.31**	**R**	**5a**	**2016**	F	F				**N**	X		**N**						
OK121600060090_00	Locust Creek	11.42	R	3	2015	X	X				X	X		X						
OK121600060100_00	Success Creek	5.82	R	3	2015	X	X				X	X		X						
OK121600060110_00	Cornatzar Creek	3.63	R	3	2015	X	X				X	X		X						

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OK121600060120_00	Shawnee Creek	7.39	R	3	2015	X	X				X	X		X						
OK121600060130_00	Coal Creek	6.16	R	3	2015	X	X				X	X		X						
OK121600060140_00	Jones Creek	6.75	R	3	2015	X	X				X	X		X						
OK121600060150_00	Possum Branch	2.69	R	3	2015	X	X				X	X		X						
OK121600060160_00	Wolf Creek	7.64	R	3	2015	X	X				X	X		X						
OK121600060170_00	Crow Creek	6.12	R	3	2015	X	X				X	X		X						
OK121600060180_00	Bluejacket Creek	4.82	R	3	2015	X	X				X	X		X						
OK121600060190_00	Welch Creek	3.32	R	3	2015	X	X				X	X		X						
OK121600060200_00	**Bull Creek**	**10.83**	**R**	**5a**	**2015**	F	**N**				**N**	X		I						
OK121600060210_00	Kelso Creek	3.09	R	3	2015	X	X				X	X		X						
OK121600060220_00	**Big Cabin Creek**	**11.58**	**R**	**5b**	**2016**	I	**N**				F	X			F					
OK121600060230_00	Pecan Creek	9.61	R	3	2015	X	X				X	X		X						
OK121600060240_00	**Pawpaw Creek**	**18.40**	**R**	**5a**	**2015**	F	**N**				**N**	X		I						
OK121600060250_00	White Creek	8.48	R	3	2015	X	X				X	X		X						
OK121600060260_00	Thompson Creek	4.64	R	3	2015	X	X				X	X		X						
OK121600060270_00	Elm Creek	6.90	R	3	2015	X	X				X	X		X						
OK121600060280_00	Big Cabin Creek, West Fork	14.68	R	2	2016	X	X				F	X		X						
OK121600060290_00	Big Cabin Creek, Middle Fork	9.15	R	3	2015	I	I				I	X		X						
OK121600060300_00	Big Cabin Creek	3.82	R	3	2015	X	X				X	X			X					
OK121600060300_10	Big Cabin Creek	25.58	R	2	2015	X	I				F	I		X						
OK121600060310_00	Mill Creek	4.99	R	3	2015	X	X				X	X		X						
OK121600060320_00	Frazier Branch	5.90	R	3	2015	X	X				X	X		X						

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OK121600060330_00	Whisky Branch	3.39	R	3	2015	X	X				X	X		X						
OK121600060340_00	McDonald Branch	4.92	R	3	2015	X	X				X	X		X						
OK121600060350_00	Deer Creek	6.21	R	3	2015	X	X				X	X		X						
OK121600060360_00	Wolfe Creek	3.79	R	3	2015	X	X				X	X		X						
OK121600060370_00	Willow Creek	2.73	R	3	2015	X	X				X	X		X						
OK121600060380_00	Banzet Creek	4.46	R	3	2015	X	X				X	X		X						
OK121600070010_00	**Spring River**	**22.11**	**R**	**5a**	**2016**	F	F	**N**				**N**		F		I				
OK121600070020_00	Shawnee Branch	3.41	R	3	2015	X	X	X				X		X		X				
OK121600070030_00	Shawnee Lake	1	L	3	2016	X	X				X	X		X						
OK121600070040_00	Flint Branch	5.45	R	3	2015	X	X	X				X		X		X				
OK121600070050_00	Warren Branch	9.10	R	2	2015	I	F	F				X		I		I		✓		
OK121600070060_00	Rock Creek	3.82	R	3	2015	X	X				X	X		X						
OK121600070070_00	Devil's Hollow Creek	3.50	R	3	2015	X	X	X				X		X		X				
OK121600070080_00	Elgin Creek	3.10	R	3	2015	X	X				X	X		X						
OK121600070090_00	Hockerville Creek	3.77	R	3	2015	X	X				X	X		X						
OK121600070100_00	Ontario Creek	3.53	R	3	2015	X	X				X	X		X						
OK121600070110_00	Fivemile Creek	5.81	R	**4a**	2016	F	F	F				F		**N**		F				
OK121600070120_00	Little Fivemile Creek	4.16	R	2	2015	I	F				F	X		I						
OK121600070130_00	Rock Branch	0.40	R	3	2015	X	X				X	X		X						
OK121610000010_00	Pryor Creek	7.00	R	3	2015	X	X				X	X		X						
OK121610000020_00	Sulphur Creek	5.33	R	3	2015	X	X				X	X		X						
OK121610000040_00	Scarbow Lake	150	L	3	2016	X	X				X	X		X						

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OK121610000050_00	Pryor Creek	3.93	R	2	2018	X	X				F	X		X						
OK121610000050_10	**Pryor Creek**	**4.97**	**R**	**5a**	**2016**	I	F				**N**	X		**N**		I				
OK121610000060_00	Midamerica Creek	4.24	R	3	2015	X	X				X	X		X						
OK121610000070_00	Seminole Creek	8.55	R	3	2015	X	X				X	X		X						
OK121610000080_00	Mud Creek	7.70	R	3	2015	X	X				X	X		X						
OK121610000090_00	**Pryor Creek**	**2.35**	**R**	**5a**	**2015**	F	F				**N**	X			I					
OK121610000090_10	**Pryor Creek**	**12.12**	**R**	**5a**	**2016**	X	X				**N**	X			X					
OK121610000100_00	Salt Branch	6.08	R	3	2015	X	X				X	X		X						
OK121610000120_00	Adair Creek	4.83	R	3	2015	X	X				X	X		X						
OK121610000130_00	Bitter Creek	5.88	R	3	2015	X	X				X	X		X						
OK121610000140_00	Osage Creek	5.34	R	3	2015	X	X				X	X		X						
OK121610000150_00	Pryor Creek, Upper	25.16	R	2	2016	X	X				F	X		X						
OK121610000160_00	Little Pryor Creek	12.42	R	3	2015	X	X				X	X		X						
OK121610000170_00	Diver Creek	4.94	R	3	2015	X	X				X	X		X						
OK121610000180_00	Chelsea Creek	0.82	R	3	2015	X	X				X	X		X						
OK121610000190_00	Chelsea Creek, East	4.56	R	3	2015	X	X				X	X		X						
OK121610000200_00	Chelsea Creek, West	4.15	R	3	2015	X	X				X	X		X						
OK121700010010_00	**Illinois River**	**9.47**	**R**	**5a**	**2017**	I	I			**N**		X	F	I		X		✓		
OK121700010020_00	Deep Branch	8.71	R	3	2017	X	X				X	X		X						
OK121700010030_00	Larue Branch	5.39	R	3	2017	X	X				X	X		X						
OK121700010040_00	Red Bird Smith Creek	8.48	R	3	2017	X	X				X	X		X						
OK121700010050_00	Pot Hollow	2.57	R	3	2017	X	X				X	X		X						

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OK121700020020_00	**Tenkiller Ferry Lake**	**8,442**	**L**	**5a**	**2016**	**N**	F				**N**	I		F		I		✓		
OK121700020030_00	Pine Creek	1.60	R	3	2017	X	X				X	X		X						
OK121700020040_00	Sawmill Hollow Creek	2.34	R	3	2017	X	X				X	X		X						
OK121700020050_00	Linder Bend Creek	1.28	R	3	2017	X	X				X	X		X						
OK121700020060_00	Salt Branch	1.07	R	3	2017	X	X				X	X		X						
OK121700020070_00	Burnt Cabin Creek	1.71	R	3	2017	X	X				X	X		X						
OK121700020080_00	Dogwood Creek	1.16	R	3	2017	X	X				X	X		X						
OK121700020090_00	Cato Creek	4.30	R	3	2017	X	X				X	X		X		X				
OK121700020100_00	Snake Creek	2.66	R	3	2017	X	X				X	X		X						
OK121700020110_00	**Chicken Creek**	**3.54**	**R**	**5a**	**2017**	I	I				**N**	X		X						
OK121700020130_00	Terrapin Creek	6.55	R	3	2017	X	X				X	X		X		X				
OK121700020140_00	Sixshooter Creek / Branch	2.73	R	3	2017	X	X				X	X		X						
OK121700020150_00	Sismore Creek	2.86	R	3	2017	X	X				X	X		X						
OK121700020160_00	Pettit Creek	2.48	R	3	2017	X	X				X	X		X						
OK121700020170_00	Big Hollow Creek	1.09	R	3	2017	X	X				X	X		X						
OK121700020180_00	Elk Creek	8.46	R	3	2017	X	X				X	X		X						
OK121700020190_00	Dry Creek	8.83	R	3	2017	X	X				X	X		X						
OK121700020200_00	Cave Springs Creek (Bolin Hollow)	5.60	R	3	2017	X	X				X	X		X						
OK121700020220_00	**Tenkiller Ferry Lake, Illinois River Arm**	**5,032**	**L**	**5a**	**2016**	**N**	F				I	I		F		**N**		✓		
OK121700020240_00	Carters Creek	4.06	R	3	2017	X	X				X	X		X						
OK121700020250_00	Mining Camp Hollow Creek, South	4.04	R	3	2017	X	X				X	X		X						
OK121700020260_00	Dripping Spring Hollow Creek	3.94	R	3	2017	X	X				X	X		X						

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OK121700020270_00	**Park Hill Branch**	**6.86**	**R**	**5c**	**2017**	I	I				**N**	X		X						
OK121700020280_00	Manes Hollow Creek	3.21	R	3	2017	X	X				X	X		X						
OK121700020290_00	Ross Hollow Creek	1.35	R	3	2017	X	X				X	X		X						
OK121700020300_00	Illinois River	2.12	R	3	2017	X	X	X				X		X		X		✓		
OK121700020300_10	Illinois River	2.55	R	3	2017	X	X	X				X		X		X			✓	
OK121700020320_00	Indian Meadows Creek	2.34	R	3	2017	X	X				X	X		X						
OK121700020330_00	Indian Meadows Lake	1	L	3	2016	X	X				X	X		X						
OK121700030010_00	**Illinois River**	**7.68**	**R**	**5a**	**2016**	**N**	F	F				F		**N**		F			✓	
OK121700030020_00	Tahlequah Creek	1.84	R	2	2012	X	I	F				X		I		X			✓	
OK121700030030_00	Stick Ross Creek (Ross Branch)	4.54	R	2	2017	I	I				F	X		X						
OK121700030040_00	**Tahlequah Creek (Town Branch)**	**6.21**	**R**	**5a**	**2017**	I	I	F				X		**N**		X			✓	
OK121700030050_00	Red Oak Hollow Creek	2.68	R	3	2017	X	X				X	X		X						
OK121700030060_00	Little Steely Hollow Creek	2.00	R	3	2017	X	X				X	X		X						
OK121700030070_00	Briggs Hollow Creek, North	1.85	R	3	2017	X	X				X	X		X						
OK121700030080_00	**Illinois River**	**31.68**	**R**	**5a**	**2016**	**N**	I	**N**				F		**N**		I			✓	
OK121700030090_00	Pumpkin Hollow Creek	9.27	R	3	2017	X	X				X	X		X						
OK121700030100_00	Tully Hollow Creek (Burgen)	3.79	R	3	2017	X	X				X	X		X						
OK121700030110_00	Cedar Hollow Creek	3.60	R	3	2017	X	X				X	X		X						
OK121700030120_00	Steely Hollow Creek	3.12	R	3	2017	I	I				I	X		X						
OK121700030130_00	Combs Hollow Creek	2.52	R	3	2017	X	X				X	X		X						
OK121700030140_00	Telamay Hollow Creek	2.54	R	3	2017	I	I				I	X		X						
OK121700030150_00	Molly Field Hollow Creek	2.67	R	3	2017	X	X				X	X		X						

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OK121700030160_00	Peavine Hollow Creek	3.35	R	3	2017	X	X				X	X		X						
OK121700030170_00	Dog Hollow Creek	4.05	R	3	2017	X	X				X	X		X						
OK121700030180_00	Scraper Hollow Creek	2.96	R	3	2017	X	X				X	X		X						
OK121700030190_00	Kirk Springs Hollow Creek	3.36	R	3	2017	X	X				X	X		X						
OK121700030200_00	Sawmill Hollow Creek	2.32	R	3	2017	X	X				X	X		X						
OK121700030210_00	Falls Branch	4.75	R	3	2017	X	X				X	X		X						
OK121700030220_00	Black Fox Hollow Creek	6.18	R	3	2017	X	X				X	X		X						
OK121700030230_00	Winset Hollow Creek	4.95	R	3	2017	X	X				X	X		X		X				
OK121700030240_00	Hasting Hollow Branch	2.53	R	3	2017	X	X				X	X		X						
OK121700030250_00	Fall Branch	5.23	R	3	2017	I	X				I	X		X						
OK121700030260_00	Luna Branch	5.06	R	3	2017	X		X				X		X						
OK121700030270_00	Cherokee Mission Creek	2.54	R	3	2017	X	X				X	X		X						
OK121700030280_00	**Illinois River**	**15.65**	**R**	**5a**	**2016**	**N**	F	**N**				F		**N**		F			✓	
OK121700030290_00	**Flint Creek**	**1.60**	**R**	**5a**	**2012**	**N**	F	**N**				X		I		X			✓	
OK121700030300_00	Kill Hollow Creek	4.41	R	3	2017	X	X				X	X		X						
OK121700030310_00	Dripping Springs Branch	5.04	R	3	2017	X	X				X	X		X						
OK121700030320_00	Rock Branch	3.40	R	3	2017	X	X				X	X		X						
OK121700030330_00	Tate Parris Branch	3.71	R	3	2017	X	X				X	X		X						
OK121700030340_00	Beaver Creek (Indiangrave Hollow)	2.33	R	3	2017	X	X				X	X		X						
OK121700030350_00	**Illinois River**	**5.18**	**R**	**5a**	**2016**	**N**	F	F				F		**N**		F			✓	
OK121700030360_00	Frances Lake	562	L	3	2016	X	X				X	X		X						
OK121700030370_00	**Ballard Creek**	**12.60**	**R**	**5a**	**2016**	I	F	F				X		**N**		X			✓	

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OK121700040010_00	**Caney Creek**	**20.92**	**R**	**5a**	**2017**	F	F	F				F		**N**		F				
OK121700040020_00	Negro Jake Hollow Creek	5.74	R	3	2017	X	X	X				X		X						
OK121700040030_00	Tailholt Creek	3.83	R	3	2017	X	X				X	X		X						
OK121700040040_00	Bidding Creek	5.77	R	3	2017	X	I				I	X		I						
OK121700040050_00	Spade Creek	5.23	R	3	2017	X	X				X	X		X						
OK121700040060_00	Spade Branch	3.83	R	3	2017	X	X				X	X		X						
OK121700040070_00	Smith Hollow Creek	4.22	R	2	2017	X	X				F	X		X						
OK121700040080_00	Goat Mountain Creek	3.61	R	3	2017	X	X				X	X		X						
OK121700040090_00	Mulberry Hollow Creek	3.55	R	3	2017	X	X				X	X		X						
OK121700050005_00	Illinois River, Baron Fork	1.08	R	3	2017	I	I	X				X		X					✓	
OK121700050010_00	**Illinois River, Baron Fork**	**25.15**	**R**	**5a**	**2016**	**N**	F	F				F		**N**		F			✓	
OK121700050030_00	Welling Creek	3.53	R	3	2017	X	X				X	X		X						
OK121700050040_00	Mining Camp Hollow Creek, North	2.91	R	3	2017	X		X				X		X						
OK121700050050_00	Willow Branch Creek	2.94	R	3	2017	X	X				X	X		X						
OK121700050052_00	Field Hollow Creek	3.01	R	3	2017	X	X				X	X		X						
OK121700050060_00	Briggs Hollow Creek, South	5.39	R	3	2017	X	X				X	X		X						
OK121700050070_00	Walltrip Branch	6.90	R	2	2016	X	X				F	X		X						
OK121700050080_00	Proctor Mountain Creek	4.07	R	3	2017	X	I				I	X		I						
OK121700050090_00	**Tyner Creek**	**15.92**	**R**	**5a**	**2016**	I	I	F				X		**N**		X			✓	
OK121700050100_00	South Proctor Creek, West	4.11	R	3	2017	X	X				X	X		X						
OK121700050110_00	Dennison Hollow Creek	2.64	R	3	2017	X	X	X				X		X		X			✓	
OK121700050111_00	South Proctor Creek, East	4.61	R	3	2017	X	X				X	X		X						

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OK121700050120_00	**Peacheater Creek**	**10.95**	**R**	**5a**	**2012**	I	I	F				X		**N**		I			✓	
OK121700050130_00	Scraper Hollow Creek	2.78	R	3	2012	I	I	X				X		X		X			✓	
OK121700050140_00	England Hollow Creek	6.08	R	3	2017	X	X	X				X		X		X			✓	
OK121700050150_00	Green Creek	7.82	R	3	2017	X	I	I				X		I		X			✓	
OK121700050160_00	Westville Lake	1	L	3	2016	X	X				X	X		X						
OK121700050170_00	Illinois River, Baron Fork	3.27	R	3	2012	I	X	X				X		X					✓	
OK121700050170_10	**Illinois River, Baron Fork**	**7.78**	**R**	**5a**	**2016**	X	I	F				X		**N**		X			✓	
OK121700050180_00	Shell Branch	7.77	R	3	2012	I	I	I				X		X		X			✓	
OK121700050190_00	Peavine Creek	7.19	R	3	2012	X	X	I				X		I						
OK121700050200_00	Evansville Creek	13.47	R	3	2017	X	X	X				X		X		X			✓	
OK121700050210_00	West Branch	1.51	R	3	2012	X	X				X	X		X						
OK121700060010_00	**Flint Creek**	**7.75**	**R**	**5a**	**2016**	**N**	F	F				F		**N**		F			✓	
OK121700060010_10	Flint Creek	3.54	R	3	2012	I	X	I				X		X		X			✓	
OK121700060020_00	Fivemile Hollow Creek	4.97	R	3	2017	X	X				X	X		X						
OK121700060030_00	Calunchety Hollow Creek	3.67	R	3	2017	X	X				X	X		X						
OK121700060040_00	**Battle Creek (Battle Branch)**	**5.43**	**R**	**5a**	**2016**	F	F				F	X		**N**						
OK121700060050_00	Blue Spring Branch	1.97	R	3	2017	X	X				X	X		X						
OK121700060060_00	Hazelnut Hollow Creek	1.99	R	3	2017	X	X				X	X		X						
OK121700060070_00	Crazy Creek (Glasby)	5.51	R	3	2017	X	X				X	X		X						
OK121700060080_00	**Sager Creek**	**4.15**	**R**	**5a**	**2016**	I	F	**N**				F		**N**		F			✓	
OK121700060100_00	Fagan Creek	2.78	R	3	2012	X	X	X				X		X		X			✓	

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OK220100010010_00	**Poteau River**	**23.89**	**R**	**5a**	**2016**	F	F				**N**	**N**		F		I				
OK220100010010_05	Poteau River	3.35	R	3	2012	X	X				X	X		X		X				
OK220100010010_10	Poteau River	1.55	R	3	2012	X	X				X	X		X		X				
OK220100010010_20	Poteau River	9.21	R	3	2012	X	X				X	X		X		X				
OK220100010010_30	**Poteau River**	**2.24**	**R**	**5a**	**2012**	X	X				**N**	**N**		X		**N**				
OK220100010010_40	**Poteau River**	**21.35**	**R**	**5a**	**2012**	I	F				**N**	I		F		I				
OK220100010020_00	Cedar Creek	3.15	R	3	2012	X	X				X	X		X						
OK220100010030_00	Cedar Creek, Trib	1.51	R	3	2017	X	X				X	X		X						
OK220100010040_00	Holi-Tuska Creek	9.95	R	3	2012	X	X				X	X		X		X				✓
OK220100010042_00	Holi-Tuska Creek, NW Trib of	4.42	R	3	2016	X	X				X	X		X		X				✓
OK220100010045_00	Unnamed Trib to Holi-Tuska Creek	1.74	R	3	2014	X	X				X	X		X		X				✓
OK220100010050_00	**New Spiro Lake**	**254**	**L**	**5a**	**2014**	I	F				**N**	F		F		**N**				✓
OK220100010060_00	Coal Creek	6.77	R	3	2017	X	X				X	X		X						
OK220100010070_00	Poteau River, James Fork	16.87	R	3	2012	I	I				I	X		X		X				
OK220100010080_00	Poteau River, James Fork, Trib	3.97	R	3	2012	X	X				X	X		X						
OK220100010110_00	Rock Creek	7.13	R	3	2017	X	X				X	X		X						
OK220100010120_00	Riddle Creek	12.59	R	3	2017	X	X		X			X			X					
OK220100010130_00	Cameron Creek	3.40	R	3	2017	X	X		X			X			X					
OK220100010140_00	Polk Creek	5.33	R	3	2017	X	X				X	X		X						
OK220100010150_00	Town Creek	4.31	R	3	2017	X	X				X	X		X						
OK220100010160_00	Sugarloaf Creek	15.00	R	2	2017	I	I				F	X		X		X				
OK220100010170_00	Morris Creek	13.63	R	3	2017	X	X				X	X		X						

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OK220100010180_00	**Caston Creek**	**14.43**	**R**	**5c**	**2016**	X	X				**N**	X		X		X				
OK220100010190_00	Mountain Creek	8.75	R	3	2017	X	X				I	X		X						
OK220100010200_00	Coal Creek	8.99	R	2	2017	X	X				X	X		X			F			
OK220100010210_00	Coal Creek, Trib	2.47	R	3	2017	X	X				X	X		X						
OK220100010220_00	Coal Creek, Trib	3.44	R	3	2017	X	X				X	X		X						
OK220100010240_00	Nail Creek	12.30	R	3	2017	I	X				I	X		X						
OK220100010250_00	Double Branch Creek	4.34	R	2	2017	I	X				F	X		X						
OK220100010260_00	Rock Creek	3.89	R	3	2017	X	X				X	X		X						
OK220100010265_00	**Rock Creek Tributary!**	**2.01**	**R**	**5c**	**2017**	I	X				**N**	X		X						
OK220100010270_00	Little Mountain Creek	6.21	R	2	2017	X	X				F	X		X						
OK220100020010_10	**Poteau River**	**27.04**	**R**	**5a**	**2016**	F	F				F	F		**N**		I				
OK220100020020_00	**Wister Lake**	**7,333**	**L**	**5a**	**2016**	**N**	F				**N**	**N**		F		**N**				
OK220100020030_00	Poteau River, Black Fork	1.96	R	3	2012	I	I				I	X		X		X				
OK220100020040_00	**Poteau River, Black Fork**	**28.60**	**R**	**5a**	**2012**	I	F				**N**	X		I		I				
OK220100020050_00	Cedar Creek	6.96	R	2	2016	I	X				F	X		X		X				
OK220100020060_00	**Cedar Lake**	**78**	**L**	**5a**	**2016**	F	F				**N**	F		F						
OK220100020070_00	Shawnee Creek	7.75	R	3	2017	X	X				X	X		X		X				
OK220100020080_00	Big Creek	12.57	R	3	2017	X	X	X				X		X		X				
OK220100020090_00	Big Creek, Trib	5.97	R	2	2017	X	X				X	X		X		X	F			
OK220100020100_00	Oil Branch	5.39	R	3	2017	X	X				X	X		X		X				
OK220100020110_00	Oil Branch, Trib	4.33	R	3	2017	X	X				X	X		X		X				
OK220100030010_00	Brazil Creek	17.83	R	**4a**	2016	F	F				F	X		**N**		I				

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OK220100030010_10	Brazil Creek	30.29	R	3	2017	I	X				X	X		X		X				
OK220100030020_00	Buck Creek	8.89	R	3	2017	X	X				X	X		X						
OK220100030030_00	Doe Creek	1.83	R	3	2017	X	X				X	X		X						
OK220100030040_00	Bokoshe Lake	21	L	3	2016	X	X				X	X		X						
OK220100030050_00	Owl Creek	11.78	R	3	2017	X	X				X	X		X						
OK220100030060_00	Wolf Creek	6.26	R	2	2017	I	X				F	X		X						
OK220100030070_00	Wolf Creek, Trib	1.32	R	3	2017	X	X				X	X		X						
OK220100030080_00	Reese Lake	17	L	3	2016	X	X				X	X		X						
OK220100030100_00	Opossum Creek	6.19	R	3	2016	X	X				X	X		X						
OK220100040010_00	Fourche Maline Creek	3.99	R	3	2012	I	I				I	X		X		I				
OK220100040020_00	**Fourche Maline Creek**	**36.94**	**R**	**5a**	**2016**	F	F				**N**	F		**N**		I				
OK220100040020_10	Fourche Maline Creek	21.35	R	3	2012	I	X				I	X		X		X				
OK220100040030_00	Holson Creek	17.38	R	2	2016	I	F				F	X		X		X				
OK220100040040_00	Long Creek	13.16	R	3	2012	I	I				I	X		X		X				
OK220100040050_00	**Red Oak Creek**	**10.95**	**R**	**5a**	**2014**	I					**N**	X		X						
OK220100040060_00	Pigeon Creek	6.16	R	3	2017	I	I				I	X		X		X				
OK220100040070_00	Little Fourche Maline Creek	13.67	R	2	2017	I	I				F	X		X		I				
OK220100040080_00	**Bandy Creek**	**12.44**	**R**	**5a**	**2017**	I	I				**N**	X		X						
OK220100040090_00	Bandy Creek, Unnamed Trib of	4.98	R	3	2017	X	X				X	X		X		X				✓
OK220100040100_00	**Lloyd Church Lake (Wilburton City)**	**160**	**L**	**5a**	**2014**	F	F				**N**	F		F		F				✓
OK220100040110_00	Fourche Maline Creek, Trib	1.97	R	3	2017	X	X		X			X			X					
OK220100040120_00	Coon Creek	3.13	R	3	2017	X	X				X	X		X		X				✓

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OK220100040130_00	Coon Creek Lake	32	L	3	2016	X	X				X	X		X		X				✓
OK220100040140_00	Carlton Lake	52	L	3	2016	X	X				X	X		X						
OK220100040150_00	**Wayne Wallace Lake**	**94**	**L**	**5a**	**2016**	F	F				**N**	I		F		F				
OK220100040160_00	Rough Canyon Creek	2.28	R	3	2012	X	X				X	X		X		X				
OK220100040170_00	Smooth Creek	0.73	R	3	2012	X	X				X	X		X		X				
OK220100040180_00	Coal Creek	10.49	R	3	2017	X	X				X	X		X		X				
OK220100040190_00	Spring Creek	6.35	R	3	2017	X	X				X	X		X						
OK220200010010_00	**Arkansas River**	**20.59**	**R**	**5a**	**2016**	I	**N**				F	F	F	**N**		X				
OK220200010020_00	Camp Creek	11.45	R	3	2017	X	X	X				X		X		X				
OK220200010025_00	Muldrow Lake	76	L	2	2016	F	I				I	I		I		I				
OK220200010030_00	Big Skin Bayou	7.83	R	3	2017	I	I				I	X		X		X				
OK220200010030_10	Big Skin Bayou	18.51	R	2	2017	I	X				F	X		X		X				
OK220200010040_00	Little Skin Bayou	11.22	R	3	2017	X	X				X	X		X						
OK220200010050_00	Center Point Cemetery Creek!	2.77	R	3	2017	X	X				X	X		X						
OK220200010060_00	Cache Creek	20.75	R	2	2016	I	F				F	X		X		I				
OK220200010070_00	Redbank Creek	4.73	R	3	2017	X	X				X	X		X						
OK220200010090_00	Coal Creek	13.19	R	3	2017	X	X				X	X		X						
OK220200010100_00	Onion Creek	11.15	R	3	2017	X	X		X			X			X					
OK220200010110_00	Rabbit Branch	5.74	R	3	2017	X	X				X	X		X						
OK220200020010_00	Arkansas River	8.51	R	2	2017	X	X				X	X	F	X		X				
OK220200020020_00	**Robert S. Kerr Lake**	**43,380**	**L**	**5a**	**2016**	F	F				**N**	I	F	F		I				
OK220200020040_00	**Little Sallisaw Creek**	**17.59**	**R**	**5a**	**2017**	I	I				**N**	X		X		I				

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OK220200020050_00	Hog Creek	8.84	R	3	2017	X	X				X	X		X						
OK220200020055_00	Hog Creek Trib!	2.92	R	3	2017	X	X				X	X		X						
OK220200020070_00	Mule Creek	8.91	R	3	2017	X	X				X	X		X						
OK220200020090_00	Club Lake	1	L	3	2016	X	X				X	X		X						
OK220200020110_00	Lone Star Steel Lake	1	L	3	2016	X	X				X	X		X						
OK220200020120_00	Little Sans Bois Creek	9.80	R	3	2012	X	X				X	X		X						
OK220200020130_10	Vian Creek	21.42	R	3	2017	I	I	X				X		X		X				
OK220200020140_00	Little Vian Creek	12.78	R	3	2017	X	X	X				X		X		X				
OK220200020150_00	Pheasant Creek	5.03	R	3	2017	X	X				X	X		X						
OK220200020160_00	Brier Creek	6.43	R	3	2017	X	X				X	X		X						
OK220200030010_10	**Sallisaw Creek**	**9.00**	**R**	**5a**	**2016**	F	F	F				X		**N**		I		✓		
OK220200030010_20	Sallisaw Creek	13.30	R	**4a**	2016	I	F	F				X		**N**		I		✓		
OK220200030010_30	Sallisaw Creek	14.80	R	2	2012	X	F	I				X		I				✓		
OK220200030020_00	Shiloh Branch	3.65	R	3	2017	X	X				X	X		X						
OK220200030030_00	Brushy Creek	13.17	R	3	2017	X	X	X				X		X		X				✓
OK220200030035_00	Shiloh Branch, Unnamed Tributary of	3.33	R	3	2017	X	X		X			X			X					
OK220200030040_00	**Brushy Creek Lake**	**358**	**L**	**5a**	**2014**	F	F				**N**	I		F		**N**				✓
OK220200030050_00	Brushy Lake	227	L	3	2014	X	X				X	X		X		X				✓
OK220200030060_00	Dry Creek	8.52	R	3	2017	X	X				X	X		X						
OK220200030070_00	Marble City Lake	1	L	3	2016	X	X				X	X		X						
OK220200030080_00	Greasy Creek	9.15	R	3	2017	X	X	X				X		X		X				
OK220200030100_00	Greasy Lake	1	L	3	2016	X	X				X	X		X						

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OK220200030120_00	**Stilwell City Lake**	**188**	**L**	**5a**	**2016**	F	F				**N**	F		F		X				
OK220200030130_00	McEachin Hollow	4.29	R	2	2016	I	X				F	X		X						
OK220200040010_00	Sans Bois Creek	6.08	R	3	2016	I	I				I	X		I		I				
OK220200040010_10	**Sans Bois Creek**	**10.76**	**R**	**5b**	**2018**	I	**N**				F	X		**N**		I				
OK220200040010_20	Sans Bois Creek	5.38	R	3	2012	X	X				X	X		X		X				
OK220200040010_30	Sans Bois Creek	7.14	R	3	2012	X	X				X	X		X		X				
OK220200040010_40	**Sans Bois Creek**	**27.80**	**R**	**5a**	**2012**	I	F				**N**	X		**N**		I				
OK220200040020_00	Pruit Valley Creek (John Wells (Stigler))	10.02	R	3	2012	X	X				X	X		X						
OK220200040030_00	John Wells Lake (Stigler)	194	L	1	2016	F	F				F	F		F		F				✓
OK220200040050_00	Sans Bois Creek, Mountain Fork	13.63	R	**4a**	2016	F	F				I	X		**N**						
OK220200040060_00	Beaver Creek	13.04	R	2	2012	X	X				X	X		X			F			
OK220200040080_00	Quinton City Lake	25	L	3	2016	X	X				X	X		X						
OK220200040090_00	Sans Bois Creek, Unnamed Trib of	3.61	R	3	2018	X	X				X	X		X						
OK220200050010_00	**Lee Creek**	**1.87**	**R**	**5a**	**2012**	I	F	**N**				X		**N**		I		✓		
OK220200050010_10	**Lee Creek**	**15.66**	**R**	**5a**	**2016**	I	F	**N**				F		F		F			✓	
OK220200050020_00	Webber Creek	1.97	R	3	2012	X	X	X				X		X		X			✓	
OK220200050030_00	Briar Creek (Bear)	5.81	R	3	2012	X	X	X				X		X		X			✓	
OK220200050035_00	Mission Branch	6.47	R	3	2012	X	X				X	X		X						
OK220200050040_00	Little Lee Creek	23.66	R	2	2016	I	F	F				F		I		F			✓	
OK220200050050_00	Jenkins Creek	6.67	R	2	2012	I	I	F				X		X		X			✓	
OK220200050060_00	Garrison Creek	2.97	R	3	2012	X	X				X	X		X		X				
OK220200050060_10	Garrison Creek	4.16	R	3	2012	X	X				X	X		X		X				

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OK220200050070_00	Garrison Creek, Unnamed Tributary of	6.29	R	3	2012	X			X						X					
OK220200050080_00	Candy Mink Creek	1.89	R	3	2012	X	X	X				X		X		X			✓	
OK220300000010_00	Canadian River	25.72	R	2	2016	F	F				F	F	F	F		I				
OK220300000020_00	Taloka Creek	16.00	R	3	2016	I	X				I	X		X		X				
OK220300000030_00	Snake Creek	7.25	R	3	2012	X	X				X	X			X					
OK220300000040_00	Emachaya Creek	16.27	R	3	2012	X	X				X	X		X		X				
OK220600010015_00	Mud Creek	5.66	R	3	2012	X	X				X	X		X		X				
OK220600010020_00	Eufaula Lake	14,689	L	2	2012	F	F				I	I		I		I				
OK220600010030_00	Brooken Creek	5.75	R	3	2012	X	X				X	X		X						
OK220600010040_00	Brooken Creek, Trib	2.28	R	3	2012	X	X				X	X		X						
OK220600010050_00	**Eufaula Lake, Canadian River Arm**	**19,040**	**L**	**5a**	**2012**	F	F				**N**	I		I		I				
OK220600010060_00	**Eufaula Lake, Longtown Creek Arm**	**3,857**	**L**	**5a**	**2016**	F	I				**N**	I		I		I				
OK220600010070_10	**Longtown Creek**	**12.14**	**R**	**5a**	**2012**	F	F				**N**	X		**N**		F				
OK220600010080_00	Lick Creek	2.37	R	3	2012	X	X				X	X		X						
OK220600010100_10	Mill Creek	3.28	R	3	2012	X	X				X	X		X		X				
OK220600010100_20	Mill Creek	24.16	R	**4a**	2016	I	F				F	X		**N**		I				
OK220600010110_00	Flat Rock Creek	6.43	R	3	2012	X	X				X	X		X						
OK220600010119_00	Canadian River	5.41	R	3	2012	X	X				X	X		X		X				
OK220600010119_10	**Canadian River**	**39.08**	**R**	**5a**	**2016**	I	F				**N**	**N**		**N**		I				
OK220600010120_00	Scipio Creek	20.25	R	3	2012	X	X				X	X		X						
OK220600010128_00	Canadian River, Unnamed Tributary of	1.79	R	3	2012	X	X		X			X			X					
OK220600010130_00	**Hay Creek**	**4.70**	**R**	**5c**	**2012**	**N**	I				**N**	X		X						

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OK220600010140_00	Cindy Creek	7.01	R	2	2012	I	F				I	X		X						
OK220600010150_00	Pond Creek	5.55	R	2	2012	F	F				I	X		X						
OK220600010160_00	**Gobbler Creek**	**7.80**	**R**	**5c**	**2016**	I	I				**N**	X		X		I				
OK220600010170_00	Big Creek	11.00	R	3	2012	I	I				I	X		X						
OK220600010180_00	Leader Creek	6.26	R	3	2012	X					X	X		X						
OK220600010190_00	Middle Creek	11.64	R	3	2016	X	X				X	X		X						
OK220600010200_00	Coal Creek	8.55	R	2	2016	X	X				F	X		X						
OK220600010210_00	Salt Creek	14.67	R	3	2016	X	X				X	X				X				
OK220600010220_00	Shell Creek	9.50	R	3	2016	X	X				X	X		X						
OK220600010230_00	Shell Creek, Unnamed Trib of	1.56	R	3	2016	X	X				X	X		X						
OK220600020010_10	Coal Creek	9.77	R	3	2012	X	X				X	X		X		X				
OK220600020010_20	Coal Creek	33.18	R	3	2012	X	X				X	X		X		X				
OK220600020020_00	Bull Creek	7.67	R	3	2012	X	X				X	X		X		X				✓
OK220600020030_00	**McAlester Lake**	**1,521**	**L**	**5a**	**2016**	F	F				**N**	**N**		F		I				✓
OK220600020050_00	**Talawanda 2 Lake**	**195**	**L**	**5a**	**2014**	F	F				**N**	I		F		X				
OK220600020060_00	**Talawanda 1 Lake**	**91**	**L**	**5a**	**2012**	F	F				**N**	I		F		X				
OK220600020070_00	Big Wildhorse Creek	23.43	R	3	2012	X	X				X	X		X						
OK220600020080_00	Deer Creek	12.67	R	3	2012	X	X				X	X		X						
OK220600020090_00	Sandy Creek	5.71	R	3	2012	X	X				X	X			X					
OK220600020093_00	Sandy Creek, Unnamed Tributary of	5.19	R	2	2016	I	X				F	X			X					
OK220600020100_00	Coal Creek, Trib A!	1.96	R	3	2012	X	I				I	X		X						
OK220600030010_00	**Brushy Creek**	**2.96**	**R**	**5a**	**2016**	**N**	F				**N**	**N**		**N**		**N**				

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OK220600030010_10	Brushy Creek	25.03	R	**4a**	2016	F	F				F	I		**N**		I				
OK220600030010_20	**Brushy Creek**	**11.30**	**R**	**5a**	**2016**	I	X				**N**	X		X		X				
OK220600030020_00	Blue Creek	10.68	R	**4a**	2012	I	X				I	X		**N**		X				
OK220600030022_00	Blue Creek, Unnamed Tributary of	2.37	R	3	2012	X	X				X	X		X						
OK220600030025_00	Blue Creek, Hartshorne Trib!	1.66	R	3	2012	X	X				X	X		X						
OK220600030030_00	Rock Creek	6.97	R	3	2012	X	X				X	X		X						
OK220600030040_00	Hartshorne Lake	83	L	3	2016	X	X				X	X		X						
OK220600030050_00	**Peaceable Creek**	**17.14**	**R**	**5a**	**2016**	F	**N**				**N**	I		**N**		I				
OK220600030050_10	Peaceable Creek	5.62	R	3	2012	X	X				X	X		X		X				
OK220600030050_20	Peaceable Creek	6.40	R	3	2012	X	X				X	X		X		X				
OK220600030060_00	Chun Creek	3.03	R	2	2012	X	X				X	X		X			F			
OK220600030060_10	Chun Creek	15.33	R	2	2012	X	X				X	X			X		F			
OK220600030065_00	Chun Creek, Unnamed Tributary of	1.89	R	3	2012	X	X		X			X			X					
OK220600030080_00	**Bull Creek**	**3.29**	**R**	**5a**	**2012**	X	X				**N**	I		X						
OK220600030080_10	Bull Creek	6.85	R	3	2012	X	X				X	X		X		X				✓
OK220600030090_00	**Brown Lake**	**139**	**L**	**5a**	**2016**	F	I				**N**	I		F		I				✓
OK220600040010_00	**Gaines Creek**	**38.22**	**R**	**5a**	**2012**	**N**	F				**N**	X		I		**N**				
OK220600040020_00	Boiling Springs Creek	8.04	R	3	2012	X	X				X	X		X						
OK220600040030_00	**Beaver Creek**	**9.11**	**R**	**5a**	**2014**	**N**	I				**N**	X		**N**						
OK220600040040_00	**Pit Creek**	**7.65**	**R**	**5a**	**2014**	F	**N**				**N**	X		X						
OK220600040050_00	Cedar Creek	5.14	R	3	2012	X	X				X	X		X		X				
OK220600040060_00	Buffalo Creek	14.95	R	3	2012	X	X				X	X		X						

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OK220600050010_00	**Eufaula Lake, Gaines Creek Arm**	**24,990**	**L**	**5a**	**2012**	F	F				**N**	I		I		I				
OK220600050020_00	Gibson Creek	4.97	R	3	2012	X	X		X			X			X					
OK220600050023_00	Gibson Creek, Unnamed Tributary of	0.62	R	3	2012	X	X		X			X			X					
OK220600050030_00	Rock Creek	10.18	R	3	2012	X	X				X	X		X						
OK220600050040_00	Ash Creek	12.72	R	3	2012	X	X				X	X		X		X				
OK220600050050_00	Jones Creek	6.49	R	3	2012	X	X				X	X		X						
OK220600050060_00	Mud Creek	6.85	R	**4a**	2012	X	X				**N**	I		X						
OK220600050070_00	Buck Creek	4.02	R	3	2012	X	X				X	X		X						
OK220600050080_00	Fish Creek	5.07	R	3	2016	X	X				X	X		X						
OK220600050130_00	Wildhorse Creek	6.18	R	3	2013	X	X				X	X		X						
OK220600050150_00	Wildhorse Creek Trib!	1.38	R	3	2013	X	X				X	X		X						

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OK310800010010_10	Washita River	32.96	R	3	2013	X	X				X	X		X		X				
OK310800010011_00	**Texoma Lake, Washita River Arm, Lower**	**19,214**	**L**	**5a**	**2016**	F	**N**				**N**	I		I		I				
OK310800010012_00	Rock Creek	8.06	R	3	2013	X	I				X	X		X						
OK310800010020_00	Glasses Creek	10.56	R	2	2013	I	F				I	X		I		I				
OK310800010030_00	Little Glasses Creek	6.27	R	3	2016	X	X				X	X		X						
OK310800010040_00	Carter Lake	108	L	2	2013	F	F				I	X		F						
OK310800010050_00	Texoma Lake, Washita River Arm, Upper	6,925	L	3	2012	X	X				X	X		X		X				
OK310800010051_00	**Old Channel (of Washita)**	**4.62**	**R**	**5b**	**2016**	F	**N**				I	X		X		F				
OK310800010052_00	Kansas Creek	3.85	R	3	2013	X	X				X	X		X						
OK310800010055_00	Old Channel Washita, Unnamed Tributary of	5.85	R	3	2013	X	X		X			X			X		X			
OK310800010060_00	Butcher Pen Creek	6.52	R	3	2013	X	X				X	X		X						
OK310800010070_00	Polecat Creek	3.91	R	3	2013	X	X				X	X		X						
OK310800010080_00	Bell Creek	4.38	R	3	2013	X	X				X	X		X						
OK310800010090_00	**Big Sandy Creek**	**13.57**	**R**	**5a**	**2016**	F	F				I	X		**N**						
OK310800010100_00	Little Sandy Creek	10.22	R	3	2013	X	X				X	X		X						
OK310800010110_00	Buzzard Creek	9.53	R	3	2013	X	X				X	X		X						
OK310800010120_00	Pennington Creek	36.93	R	2	2016	F	F	F				X		F		F		✓		
OK310800010130_00	Cedar Creek	5.27	R	3	2013	X	X				X	X		X						
OK310800010140_00	Reagan Branch	4.05	R	3	2013	X	X				X	X		X						
OK310800010150_00	Keel Creek	2.57	R	3	2013	X	X				X	X		X						
OK310800010160_00	Spring Creek	11.20	R	3	2013	X	X				X	X		X		X				
OK310800010170_00	Rock Creek	17.11	R	3	2013	X	X				X	X		X						

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OK310800010180_00	Sandy Creek	6.19	R	3	2013	X	X				X	X		X						
OK310800010190_00	**Mill Creek**	**37.86**	**R**	**5a**	**2016**	I	F				F	X		**N**		I				
OK310800010200_00	Threemile Creek	4.30	R	3	2013	X	X				X	X		X						
OK310800010205_00	Tributary of Threemile Creek	0.88	R	3	2013	X	X		X			X			X					
OK310800010210_00	Turkey Creek	6.29	R	3	2013	X	X				X	X		X						
OK310800010220_00	Camp Creek	6.87	R	3	2013	X	X				X	X		X						
OK310800010230_00	Sycamore Creek	8.52	R	3	2013	X	X				X	X		X						
OK310800010240_00	**Oil Creek**	**19.47**	**R**	**5a**	**2016**	F	F				F	X		**N**		I				
OK310800010250_00	Bee Branch	4.56	R	3	2013	X	X				X	X		X						
OK310800020010_00	**Washita River**	**31.58**	**R**	**5a**	**2016**	I	F				**N**	**N**		**N**		F				
OK310800020010_10	Washita River	16.66	R	2	2016	X	X				F	X		X		X				
OK310800020020_00	Wolf Creek	7.38	R	3	2013	X	X				X	X		X						
OK310800020040_00	Sand Branch	6.24	R	**4a**	2013	F	F				**N**	X		I						
OK310800020050_00	Big Branch	12.43	R	3	2013	X	X				X	X		X						
OK310800020060_00	Cool Creek	9.56	R	3	2013	X	X				X	X		X						
OK310800020070_00	Board Hollow Creek	4.75	R	3	2013	X	X				X	X		X						
OK310800020080_00	Rock Creek	4.45	R	3	2013	X	X				X	X		X		X				✓
OK310800020090_00	Rock Creek	4.58	R	2	2016	X	X				F	X		X		X				✓
OK310800020100_00	**Arbuckle Lake (Lake of the Arbuckles)**	**2,350**	**L**	**5a**	**2014**	F	F				**N**	X		F		F				✓
OK310800020120_00	Veterans Lake	64	L	3	2016	X	X				X	X		X						
OK310800020121_00	Travertine Creek	2.57	R	2	2013	X	X				F	X		X						
OK310800020122_00	Rock Creek	12.50	R	2	2016	I	X				F	X		X		X				✓

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OK310800020124_00	Cochran Creek	7.02	R	3	2013	X	X				X	X		X						
OK310800020130_00	Guy Sandy Creek	17.58	R	3	2013	I	I				I	X		X		I		✓		
OK310800020140_00	Falls Creek	6.18	R	3	2013	X	X				X	X		X		X				
OK310800020150_00	Dry Sandy Creek	8.01	R	3	2013	X	X				X	X		X		X				
OK310800020152_00	Dry Sandy Creek, Unnamed Tributary of	1.99	R	3	2013	X	X		X			X			X					
OK310800020160_00	Honey Creek	13.04	R	3	2013	X	X				X	X		X		X		✓		
OK310800020170_00	Lick Creek	5.11	R	3	2013	X	X				X	X		X						
OK310800020180_00	Colbert Creek	12.04	R	3	2013	X	X				X	X		X						
OK310800020190_00	Chigley Sandy Creek	14.31	R	**4a**	2016	I	F				F	X		**N**		I				
OK310800020200_00	Chigley Sandy Creek, East Branch	6.67	R	3	2013	X	X				X	X		X		X				
OK310800020210_00	Chigley Sandy Creek, West Branch	5.20	R	3	2013	X	X				X	X		X						
OK310800020220_00	Buckhorn Creek	8.54	R	2	2013	X	X				F	X		X						
OK310800030010_00	Caddo Creek	44.08	R	**4a**	2016	I	F				F	X		**N**		I				
OK310800030010_06	**Caddo Creek**	**16.82**	**R**	**5b**	**2017**	I	**N**				I	X		X		I				
OK310800030020_00	Sand Creek	7.91	R	3	2013	X	X				I	X		X						
OK310800030030_00	Deadman Branch	6.01	R	3	2013	X	X				X	X		X						
OK310800030035_00	Caddo CreekTributary	2.40	R	3	2013				X						X					
OK310800030040_00	Bullhead Creek	5.24	R	3	2013	X	X				X	X		X						
OK310800030050_00	Buzzard Creek	9.05	R	3	2013	X	X				X	X		X						
OK310800030060_00	Caddo Creek, Unnamed Trib of	3.03	R	3	2018	X	X				X	X		X						
OK310800030070_00	Ardmore City Lake (City)	142	L	2	2014	F	F				I	X		F						
OK310800030090_00	Ardmore Lake	122	L	3	2014	X	X				X	X		X						

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OK310800030100_00	Rock Creek	1.31	R	3	2013	X	X				X	X		X		X				✓
OK310800030110_00	Rock Creek	3.42	R	3	2013	X	X				X	X		X		X				✓
OK310800030120_00	Site # 18 Lake (Rock Creek)	248	L	2	2016	F	F				I	F		F		F				✓
OK310800030130_00	Philips Creek	8.86	R	3	2013	X	X				X	X		X						
OK310800030140_00	Jean Neustadt Lake	462	L	2	2016	F	F				I	X		F		F				
OK310800030150_00	Grindstone Creek	6.32	R	3	2013	X	X				X	X		X						
OK310800030160_00	Sullivan Creek	8.11	R	3	2013	X	X				X	X		X						
OK310800030170_00	Henry House Creek	15.73	R	3	2013	X	X				X	X		X						
OK310800030180_00	Red Branch	4.95	R	3	2013	X	X				X	X		X						
OK310800030190_00	Hickory Creek	7.98	R	3	2013	X	X				X	X		X		X				
OK310800030200_00	Mountain Lake	210	L	2	2016	F	F				I	I		I		I				✓
OK310800030210_00	Hickory Creek	4.70	R	3	2013	X	X				X	X		X		X				✓
OK310800030220_00	Spring Creek	9.89	R	3	2013	X	X				X	X		X						
OK310800030230_00	Spring Creek, West	9.34	R	3	2013	X	X				X	X		X						
OK310800030240_00	Hug-me-Tight Branch	6.15	R	3	2013	X	X				X	X		X						
OK310800030250_00	Bear Creek	10.44	R	3	2013	I	I				I	X		X						
OK310800030260_00	**Russell Pretty Branch**	**5.17**	**R**	**5b**	**2017**	I	**N**				I	X		X						
OK310800030265_00	**Briar Branch**	**3.88**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310800030270_00	Flag Branch	5.70	R	2	2013	I	F				I	X		X						
OK310800030280_00	**Pruitt Branch**	**4.97**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310800030285_00	**Pruitt West Creek!**	**3.94**	**R**	**5c**	**2012**	I	**N**				I	X		X		X				
OK310800030290_00	**Russell Pretty Branch, Trib A!**	**1.00**	**R**	**5b**	**2018**	I	**N**				I	X		X						

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OK310800030300_00	Tar Branch	6.41	R	2	2013	I	F				I	X		X						
OK310800030310_00	Caddo Creek Graham Branch!	3.31	R	3	2013	I	I				I	X		X						
OK310800030320_00	Caddo Creek Graham Branch! Trib.!	0.99	R	3	2013	X	X				X	X		X						
OK310800030330_00	**Caddo Creek, Clemscott Branch!**	**3.04**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310800030340_00	**Briar Branch Trib.B!**	**1.16**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310800030350_00	**Briar Branch Trib.A!**	**1.42**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310800030360_00	**Caddo Creek, Fox Branch!**	**3.11**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310800030370_00	**Caddo Creek Trib.!**	**3.34**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310800030380_00	**Caddo Creek, North Branch**	**3.80**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310800030390_00	**Caddo Creek North Branch Trib!**	**1.46**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310800030400_00	Caddo Creek North Fork!	2.90	R	3	2013	I	I				I	X		X						
OK310800030410_00	**Caddo Creek North Fork Trib!**	**1.08**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810010010_00	Washita River	21.08	R	3	2016	X	I				I	X		X		I				
OK310810010010_10	Washita River	32.87	R	**4a**	2016	I	F				**N**	F		**N**		I				
OK310810010020_00	**Wildhorse Creek**	**8.97**	**R**	**5a**	**2016**	I	F				F	X		**N**		I				
OK310810010030_00	Whiskey Creek	3.90	R	3	2013	I	I				I	X		X						
OK310810010040_00	Garrison Creek	9.19	R	3	2013	X	X				X	X		X						
OK310810010050_00	Kickapoo Sandy Creek	10.19	R	**4a**	2016	I	F				F	X		**N**		I				
OK310810010060_00	Turkey Sandy Creek	7.05	R	3	2013	X	X				X	X		X						
OK310810010062_00	Turkey Sandy Creek, Unnamed Tributary of	3.75	R	3	2013	X	X				X	X		X						
OK310810010065_00	West Sandy Creek	1.40	R	3	2013	X	X				X	X		X						
OK310810010065_10	West Sandy Creek	5.97	R	3	2013	X	X		X			X			X					

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OK310810010070_00	Red Branch	7.07	R	3	2013	I	I				I	X			X					
OK310810010080_00	Negro Sandy Creek	7.46	R	3	2013	I	I				I	X		X						
OK310810010090_00	Rush Creek	3.79	R	2	2013	I	F		I			X			X					
OK310810010090_10	**Rush Creek**	**10.30**	**R**	**5a**	**2016**	I	F				**N**	X		**N**						
OK310810010100_00	Cherokee Sandy Creek	16.34	R	3	2013	I	I				I	X		X		I				
OK310810010110_00	Wolf Creek	4.72	R	2	2013	I	F				I	X		X						
OK310810010120_00	Peavine Creek	3.81	R	3	2013	I	I				I	X		X		I				
OK310810010130_00	Peavine Creek, East	9.71	R	3	2013	X	X				X	X		X						
OK310810010150_00	Byars Lake	75	L	3	2016	X	X				X	X		X						
OK310810010160_00	Little Peavine Creek	6.83	R	3	2013	X	X				X	X		X						
OK310810010170_00	Washington Creek	0.62	R	3	2013	X	X				X	X		X		X				
OK310810010180_00	**Pauls Valley Lake**	**750**	**L**	**5a**	**2016**	F	F				**N**	I		F		I				✓
OK310810010185_00	Keel Sandy Creek	6.49	R	3	2018	X	X				X	X		X						
OK310810010186_00	RC Longmire Lake	918	L	2	2016	F	F				I	I		F						
OK310810010190_00	**Washington Creek**	**6.49**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		I				✓
OK310810010200_00	Owl Creek	9.89	R	3	2013	X	X				X	X		X						
OK310810010205_00	Cheek Creek	5.04	R	3	2013	X	X				X	X		X						
OK310810010210_00	Gaddis Creek	8.05	R	3	2013	X	X				X	X		X						
OK310810010220_00	**Maysville Lake (Wiley Post)**	**302**	**L**	**5a**	**2016**	F	F				**N**	F		F		F				
OK310810010230_00	Beef Creek	6.88	R	2	2013	X	X		X			X			X		F			
OK310810010232_00	Beef Creek, Unnamed Trib of	4.04	R	2	2013	X	X		X						X		F			
OK310810010240_00	Brady creek	13.05	R	3	2013	I	I				I	X		X						

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OK310810010250_00	Gentle Horse Creek!	1.11	R	3	2013	X	X				I	X		X						
OK310810010260_00	Meandering Creek!	4.31	R	3	2013	X	X				X	X		X						
OK310810010270_00	Rush Creek, Trib G!	4.03	R	**4a**	2016	I	**N**				I	X		X						
OK310810010280_00	**Washita River Trib 14-1N-1E!**	**1.71**	**R**	**5b**	**2018**	X	**N**				X	X		X						
OK310810010290_00	Washington Creek, Unnamed Trib of	6.15	R	3	2013	X	X				X	X		X		X				✓
OK310810020010_00	**Washita River**	**63.16**	**R**	**5a**	**2016**	I	F				**N**	**N**		**N**		I				
OK310810020020_00	Finn Creek	14.15	R	**4a**	2016	F	F				I	X		**N**		I				
OK310810020030_00	Turkey Creek	8.46	R	3	2013	X	X				X	X		X						
OK310810020040_00	Second Creek	6.25	R	3	2013	X	X				X	X		X						
OK310810020050_00	Criner Creek	11.76	R	2	2013	F	F				I	X		X		F				
OK310810020060_00	Wolf Creek	4.00	R	3	2013	X	X				X	X		X						
OK310810020070_00	Panther Creek	4.59	R	3	2013	I	I				I	X		X						
OK310810020080_00	Wildcat Creek	2.78	R	3	2013	X	X				X	X		X						
OK310810020090_00	Criner Creek, North	5.49	R	3	2013	X	X				X	X		X						
OK310810020100_00	Happy Hollow Creek	6.55	R	2	2013	I	F				I	X		X						
OK310810020110_00	Bear Creek	8.24	R	3	2013	X	X				X	X		X						
OK310810020120_00	Hybarger Creek	6.16	R	3	2013	X	X				X	X		X						
OK310810020130_00	Cavel Creek	5.70	R	3	2013	X	X				X	X		X						
OK310810020140_00	Rounds Creek	7.96	R	3	2013	X	X				X	X		X						
OK310810020150_00	Larimore Creek	6.49	R	3	2013	X	X				X	X		X						
OK310810020155_00	Sandy Creek	8.98	R	3	2013	X	X				X	X		X						
OK310810020160_00	Colbert Creek	8.59	R	3	2013	X	X				X	X		X		X				

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OK310810020170_00	Roaring Creek	18.27	R	4a	2013	F	F				I	X		N		F				
OK310810020180_00	Roaring Creek, East	7.10	R	3	2013	I	I				I	X		X						
OK310810020190_00	Middle Roaring Creek	5.92	R	3	2013	X	X				X	X		X						
OK310810020200_00	**Laflin Creek**	**12.60**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		F				
OK310810020210_00	Soldier Creek	4.32	R	3	2013	X	X				X	X		X						
OK310810020220_00	**Winter Creek**	**12.44**	**R**	**5c**	**2016**	I	F				**N**	X		I		I				
OK310810020230_00	Dry Creek	8.85	R	3	2013	X	X				X	X		X						
OK310810020250_00	Golden Trend Creek	5.74	R	2	2013	F	F				I	X		X						
OK310810020260_00	**Stealy Creek!**	**5.15**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810030010_00	**Wildhorse Creek**	**22.30**	**R**	**5a**	**2016**	I	**N**				**N**	X		**N**		I				
OK310810030020_00	Sandy Creek	16.06	R	3	2013	X	X				X	X		X		X				
OK310810030025_00	Squirrel Creek	8.26	R	3	2013	I	I				I	X		X						
OK310810030030_00	Fivemile Creek	7.16	R	3	2013	I	I				I	X		X						
OK310810030040_00	Rock Creek	9.29	R	3	2013	X	X				X	X		X		X				
OK310810030060_00	Elmore City Lake	69	L	3	2016	X	X				X	X		X		X				
OK310810030070_00	Eightmile Creek	10.46	R	3	2013	I	I				I	X		X						
OK310810030080_00	**Salt Creek**	**19.05**	**R**	**5a**	**2016**	I	**N**				**N**	X		**N**		I				
OK310810030084_00	Honey Creek	6.86	R	2	2013	I	F				I	X		X						
OK310810030090_00	Wildcat Creek	5.56	R	3	2013	X	X				X	X		X						
OK310810030100_00	Massey Creek	7.40	R	3	2013	X	X				X	X		X						
OK310810030110_00	Flat Creek	5.64	R	2	2013	I	F				I	X		X						
OK310810030120_00	Sandy Bear Creek	10.37	R	2	2013	I	F				I	X		X						

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OK310810030130_00	**Countyline Creek**	**4.44**	**R**	**5b**	**2016**	I	**N**				I	X		X						
OK310810030135_00	Pernell School Creek!	2.06	R	2	2013	I	F				I	X		X						
OK310810030140_00	**N. Pernell Creek, North**	**3.34**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810030145_00	**Pernell Creek!**	**2.96**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810030150_00	Salt Creek, Eola Branch	3.75	R	2	2013	I	F				I	X		X						
OK310810030160_00	**Pernell Creek, Trib.B!**	**0.77**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810030170_00	Pernell Creek, Trib. A!	1.11	R	3	2013	I	I				I	X		X						
OK310810030180_00	**Sandy Bear Creek, West Fork!**	**5.46**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810030190_00	Flat Creek Trib.!	2.33	R	3	2018	I	I				I	X		X						
OK310810030200_00	**South Tatums!**	**1.57**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810030210_00	**Ratliff East Creek!**	**4.42**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810030220_00	Ratliff East Creek! Trib!	2.21	R	2	2013	I	F				I	X		X						
OK310810030230_00	Ratliff West Creek!	3.73	R	3	2013	X	X				X	X		X						
OK310810030240_00	**Ratliff West Creek! Trib.!**	**0.98**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810030250_00	**Countyline Creek Trib.3!**	**1.15**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810030260_00	**Wildhorse Creek Trib.B!**	**3.30**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810030270_00	**Wildhorse Creek Trib. A!**	**2.09**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810040010_00	Wildhorse Creek	19.12	R	2	2013	I	F				I	X		X		I				
OK310810040015_00	**West County Line Creek**	**3.28**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810040020_00	**Panther Creek**	**5.36**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810040030_00	Black Bear Creek	12.30	R	2	2013	I	F				I	X		X		I				
OK310810040040_00	Black Bear Creek	5.82	R	3	2013	X	X				X	X		X		X				✓

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OK310810040050_00	**Fuqua Lake**	**1,500**	**L**	**5a**	**2016**	F	F				**N**	F		F		F				✓
OK310810040060_00	Bluff Creek	9.19	R	2	2013	I	F				I	X		X						
OK310810040070_00	Fitzpatrick Creek	1.05	R	3	2013	X	X				X	X		X		X				✓
OK310810040080_00	Duncan Lake	500	L	1	2016	F	F				F	F		F		F				✓
OK310810040090_00	Fitzpatrick Creek	5.03	R	3	2013	X	X				X	X		X		X				✓
OK310810040100_00	Dry Creek	7.90	R	3	2013	I	I				I	X		X						
OK310810040110_00	Clear Creek	3.13	R	3	2013	X	X				X	X		X		X				
OK310810040120_00	**Clear Creek Lake (Chisholm)**	**722**	**L**	**5a**	**2016**	F	**N**				F	F		F		**N**				✓
OK310810040130_00	Clear Creek	6.08	R	3	2013	X	X				X	X		X		X				✓
OK310810040140_00	**Wildhorse Creek**	**11.13**	**R**	**5c**	**2016**	I	F				**N**	X		**N**		I				✓
OK310810040150_00	**Humphreys Lake**	**882**	**L**	**5a**	**2016**	F	F				I	F		F		**N**				✓
OK310810040160_00	McCubbin Creek	6.00	R	3	2013	X	X				X	X		X		X				✓
OK310810040170_00	**Owens Creek**	**5.23**	**R**	**5a**	**2016**	I	F				**N**	X		X						
OK310810040180_00	**West County Line Creek Trib.!**	**2.53**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810040190_00	Panther Creek E. Alma Branch!	2.42	R	3	2013	I	I				I	X		X						
OK310810040200_00	**Black Bear Trib 10!**	**2.65**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810040210_00	Black Bear Trib 27-1N-4W!	2.06	R	3	2013	I	I				I	X		X						
OK310810040220_00	Black Bear Trib 6 1N-4W	2.21	R	3	2013	I	I				I	X		X						
OK310810040230_00	**Northwest Alma Creek**	**1.87**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810040240_00	**Velma East Creek!**	**3.96**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810040250_00	**Velma Creek!**	**2.42**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810040260_00	**Velma Creek West Branch!**	**1.25**	**R**	**5b**	**2018**	I	**N**				I	X		X						

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OK310810040270_00	Passmore Cemetery Creek!	3.75	R	3	2013	I	I				I	X		X						
OK310810040280_00	**Passmore Cemetery Creek Trib B!**	**2.03**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810040290_00	**Wildhorse Creek Trib 10-1S-5W!**	**4.15**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310810040300_00	Wildhorse Creek Trib 31-1N-5W!	1.29	R	3	2013	I	I				I	X		X						
OK310810050010_00	**Rush Creek**	**58.40**	**R**	**5c**	**2016**	F	F				**N**	X		X						
OK310810050020_00	Panther Creek	4.89	R	2	2013	I	F				I	X		X						
OK310810050030_00	Coon Creek	3.86	R	3	2013	I	I				I	X		X						
OK310810050040_00	Murray Creek	6.66	R	3	2018	I	I				I	X		X						
OK310810050050_00	Fourmile Creek	4.66	R	3	2013	I	I				I	X		X						
OK310810050060_00	**Taylor Lake (Marlow City)**	**227**	**L**	**5a**	**2016**	I	F				**N**	F		F		F				
OK310810050080_00	Rush Creek, Trib A!	3.35	R	3	2013	I	I				I	X		X						
OK310810050090_00	Rush Creek, Trib B!	3.41	R	3	2013	I	I				I	X		X						
OK310810050100_00	Rush Creek, Trib C!	1.51	R	3	2013	I	I				I	X		X						
OK310810050110_00	Rush Creek, Trib D!	0.71	R	3	2018	I	I				I	X		X						
OK310810050120_00	Rush Creek, Trib E!	3.40	R	**4a**	2016	I	**N**				I	X		X						
OK310810050130_00	Cox City!	3.21	R	**4a**	2018	I	**N**				I	X		X						
OK310810050140_00	West Cox City!	1.50	R	**4a**	2016	I	**N**				I	X		X						
OK310810050160_00	Rush Creek, Trib F!	1.91	R	3	2013	I	I				I	X		X						
OK310820010010_00	Washita River	10.80	R	2	2016	X	X				F	I		X		I				
OK310820010010_10	Washita River	40.49	R	3	2013	I	I				I	I		X		I				
OK310820010030_00	Bitter Creek	6.02	R	**4a**	2013	F	F				I	X		**N**		I				
OK310820010040_00	Bitter Creek, East	10.74	R	3	2013	I	I				I	X		X		X				

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OK310820010050_00	Spring Creek	6.33	R	3	2013	X	X				X	X		X						
OK310820010060_00	Bitter Creek, West	20.96	R	3	2013	I	I				I	X		X		X				
OK310820010070_00	Brushy Creek	11.81	R	3	2013	X	X				X	X		X						
OK310820010090_00	Shannon Springs Lake	40	L	3	2016	X	X				X	X		X						
OK310820010100_00	Line Creek	9.54	R	3	2013	I	I				I	X		X						
OK310820010110_00	Rock Hollow Creek	10.77	R	3	2013	X	X				X	X		X						
OK310820010120_00	Tony Hollow Creek	7.33	R	3	2013	X	X				X	X		X						
OK310820010130_00	Otter Creek	5.22	R	3	2013	X	X				X	X		X						
OK310820010140_00	Salt Creek	18.52	R	2	2016	I	I				F	X		X						
OK310820010150_00	Salt Creek, West Fork	12.47	R	3	2013	X	X				X	X		X						
OK310820010160_00	**Ionine Creek**	**6.45**	**R**	**5a**	**2016**	I	**N**				F	X		**N**		I				
OK310820010170_00	**Jack Hollow Creek**	**4.87**	**R**	**5b**	**2018**	I	**N**				I	X		X		I				
OK310820010180_00	Jack Hollow Creek, East	6.43	R	3	2013	X	X				X	X		X						
OK310820010190_00	Jack Hollow Creek, West	6.91	R	3	2013	X	X				X	X		X						
OK310820010200_00	Ionine Creek, East	5.81	R	3	2013	I	X				I	X		X						
OK310820010210_00	Ionine Creek, West	8.56	R	3	2013	I	X				I	X		X						
OK310820010220_00	County Line Creek	3.05	R	3	2013	X	X				X	X		X						
OK310820010230_00	Jack Hollow Creek, Trib A!	3.13	R	3	2013	I	I				I	X		X						
OK310820020010_00	Little Washita River	36.98	R	**4a**	2013	F	F				I	X		**N**		F				
OK310820020012_00	Patrick's Trib	1.49	R	3	2013	I	I				I	X		X						
OK310820020014_00	Erica's trib	4.39	R	3	2013	I	I				I	X		X						
OK310820020016_00	Alejandra's Trib	2.07	R	3	2013	I	I				I	X		X						

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OK310820020020_00	Rock Creek	5.48	R	3	2013	I	I				I	X		X						
OK310820020030_00	Hog Creek	3.84	R	3	2013	X	X				X	X		X						
OK310820020040_00	Latheran Creek	6.70	R	3	2013	X	X				X	X		X						
OK310820020050_00	Bills Creek	1.90	R	3	2013	X	X				X	X		X						
OK310820020060_00	Bills Creek, East	7.27	R	2	2013	I	F				I	X		X						
OK310820020070_00	Louis Burtschi Lake	180	L	1	2016	F	F				F	F		F						
OK310820020080_00	**Bills Creek, West**	**6.54**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK310820020090_00	Little Rush Creek	5.40	R	2	2013	F	I				F	X		X						
OK310820020100_00	Charlie Creek	6.08	R	3	2013	I	I				I	X		X						
OK310820020110_00	**McCarty Creek**	**8.49**	**R**	**5b**	**2018**	F	**N**				I	X		X						
OK310820020120_00	Chetonia Creek	5.39	R	3	2013	I	I				I	X		X						
OK310820020140_00	**Allen's Lake**	**10**	**L**	**5b**	**2016**	X	**N**				X	X		X						
OK310820020150_00	Gladys Creek	2.08	R	3	2013	X	X		X			X			X					
OK310820020150_10	Gladys Creek	2.41	R	3	2013	X	X				X	X		X		X				
OK310830010010_00	**Washita River**	**20.68**	**R**	**5a**	**2016**	F	F				**N**	F		**N**		F				
OK310830010010_10	Washita River	43.32	R	3	2013	X	I				I	I		X		I				
OK310830010030_00	**Delaware Creek**	**11.68**	**R**	**5a**	**2016**	I	**N**				**N**	X			F					
OK310830010050_00	Tonkawa Creek	13.71	R	3	2013	I	I				I	X		X						
OK310830010060_00	Hog Creek	7.93	R	3	2013	I	I				I	X		X						
OK310830010070_00	Leaper Creek	2.92	R	3	2013	X	X				X	X		X						
OK310830010080_00	Public Service #3 Lake	575	L	2	2016	F	F				I	I		I						
OK310830010090_00	Deep Creek	7.48	R	3	2013	X	X				X	X		X						

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OK310830010100_00	Two Hatchet Creek	4.80	R	3	2013	X	X				X	X		X						
OK310830010101_00	Dry Creek (Fast Runner)	7.32	R	3	2013	X	X				X	X		X						
OK310830010120_00	Punjo Creek	5.21	R	3	2013	X	X				X	X		X						
OK310830010130_00	Spring Creek	8.32	R	3	2013	X	X				X	X		X						
OK310830010140_00	Gokey Creek	10.61	R	3	2013	I	I				I	X		X						
OK310830010150_00	Cedar Creek	6.44	R	3	2013	X	X				X	X		X						
OK310830010160_00	Cedar Creek	10.56	R	3	2013	I	I				I	X		X						
OK310830020010_00	**Washita River**	**29.70**	**R**	**5c**	**2016**	I	F				**N**	F		X		F				
OK310830020020_00	**Stinking Creek**	**18.36**	**R**	**5b**	**2016**	F	**N**				F	X		**N**		I				
OK310830020030_00	Saddle Mountain Creek	21.19	R	3	2013	I	I				I	X		X						
OK310830020040_00	Pecan Creek	14.53	R	3	2013	X	X				X	X		X						
OK310830020050_00	Cottonwood Creek	4.35	R	3	2013	X	X				X	X		X						
OK310830020055_00	Who Dat	1.63	R	3	2013	X	X				X	X		X						
OK310830020060_00	Rainy Mountain Creek	2.18	R	3	2013	I	I				I	X		X						
OK310830020060_10	**Rainy Mountain Creek**	**32.33**	**R**	**5b**	**2016**	F	**N**				F	X			I					
OK310830020070_00	Sugar Creek	19.43	R	3	2013	X	X				X	X		X						
OK310830020080_00	Longhorn Creek	10.95	R	3	2013	X	X				X	X		X						
OK310830020090_00	Oak Creek	11.93	R	3	2013	I	I				I	X		X		X				
OK310830020100_00	Gyp Creek	6.29	R	3	2013	X	X				X	X		X						
OK310830020110_00	Vanderwork Lake	135	L	2	2016	I	F				F	I		F						
OK310830020120_00	Spring Creek	7.44	R	3	2013	X	X				X	X		X						
OK310830030010_00	Washita River	49.32	R	**4a**	2016	F	F				**N**	F		**N**		F				

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OK310830030010_10	Washita River	33.45	R	2	2013	X	F				I	I		X		I				
OK310830030020_00	Gyp Creek	8.66	R	3	2013	X	X				X	X		X						
OK310830030030_00	Friendship Creek	6.60	R	3	2013	X	X				X	X		X						
OK310830030050_00	Cloud Chief Lake	80	L	3	2016	X	X				X	X		X						
OK310830030060_00	Two Baby Creek	9.85	R	3	2013	X	X				X	X		X						
OK310830030070_00	**Cavalry Creek**	**20.30**	**R**	**5a**	**2016**	F	**N**				F	X		**N**		I				
OK310830030080_00	Cavalry Creek, South Fork	14.10	R	2	2016	I	I				F	X		X						
OK310830030090_00	Cavalry Creek, North	9.85	R	2	2013	X	X		X			X			X		F			
OK310830030095_00	Cavalry Creek, Unnamed Tributary of North	6.84	R	2	2013	X	X		X			X			X		F			
OK310830030100_00	**Boggy Creek**	**24.89**	**R**	**5c**	**2016**	F	F				**N**	X		**N**						
OK310830030110_00	Boggy Creek, South	7.24	R	3	2013	X	X				X	X		X						
OK310830030120_00	Boggy Creek, West	4.73	R	3	2013	X	X				X	X		X						
OK310830030130_00	Adams Lake	150	L	3	2016	X	X				X	X		X						
OK310830030140_00	Corn Creek	9.69	R	3	2013	I	I				I	X		X						
OK310830030150_00	Coffee Creek	11.94	R	3	2013	X	X				X	X		X						
OK310830030160_00	Gyp Creek	11.14	R	3	2013	I	I				I	X		X						
OK310830030170_00	Bear Creek	17.68	R	3	2013	X	X				X	X		X						
OK310830030180_00	Turtle Creek	15.24	R	3	2013	X	X				X	X		X						
OK310830030190_00	**Beaver Creek**	**22.54**	**R**	**5a**	**2016**	F	**N**				**N**	X			I					
OK310830030200_00	**Barnitz Creek**	**8.87**	**R**	**5a**	**2016**	F	**N**				**N**	X		**N**		I				
OK310830030210_00	**Barnitz Creek, East**	**26.48**	**R**	**5a**	**2016**	I	**N**				**N**	X		**N**		X				
OK310830030220_00	Dry Creek	15.44	R	3	2013	X	X				X	X		X						

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OK310830030230_00	**Barnitz Creek, West**	**38.35**	**R**	**5a**	**2016**	F	**N**				**N**	X		**N**		I				
OK310830030240_00	Leedey Lake	80	L	3	2016	X	X				X	X		X						
OK310830030250_00	Sand Creek	6.01	R	3	2013	X	X				X	X		X						
OK310830030260_00	Turkey Creek	12.78	R	3	2013	I	I				I	X		X						
OK310830030270_00	Turkey Creek	5.79	R	3	2013	X	X				X	X		X						
OK310830030280_00	**Clinton Lake**	**335**	**L**	**5a**	**2014**	I	F				**N**	X		I		**N**				✓
OK310830030290_00	Monument Creek	3.78	R	3	2013	X	X				X	X		X						
OK310830030300_00	Comet Creek	8.52	R	3	2013	X	X				X	X		X						
OK310830030310_00	Oak Creek	22.15	R	3	2013	I	I				I	X		X		X				
OK310830040010_00	**Spring Creek**	**16.76**	**R**	**5a**	**2016**	I	**N**				**N**	X		**N**		I				
OK310830040020_00	Chickasha Lake	820	L	2	2016	I	F				I	F		F		F				
OK310830040030_00	**Stinking Creek**	**11.33**	**R**	**5a**	**2016**	F	**N**				**N**	X		**N**		I				
OK310830050010_00	**Sugar Creek**	**32.40**	**R**	**5a**	**2016**	I	**N**				**N**	X			I					
OK310830050020_00	Camp Creek	3.13	R	3	2013	X	X				X	X		X						
OK310830050030_00	Yellow Creek	4.69	R	3	2013	X	X				X	X		X						
OK310830050040_00	White Bread Creek	9.52	R	3	2013	X	X				X	X		X						
OK310830050050_00	Keechi Creek	8.01	R	3	2013	X	X				X	X		X						
OK310830050060_00	Wildcat Creek	8.38	R	3	2013	X	X				X	X		X						
OK310830050070_00	Medicine Creek	7.40	R	3	2013	X	X				X	X		X						
OK310830050080_00	Kickapoo Creek	7.65	R	3	2013	X	X				X	X		X						
OK310830050090_00	Devil's Canyon Creek	7.67	R	3	2013	X	X				X	X		X						
OK310830050100_00	Red Rock Canyon Creek	5.43	R	3	2013	X	X				X	X		X						

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OK310830050110_00	Zobisch Lake Creek	2.35	R	3	2013	X	X				X	X		X						
OK310830050120_00	Zobisch Lake	9	L	3	2016	X	X				X	X		X						
OK310830060010_00	Cobb Creek	8.13	R	3	2013	X	X				I	X		X		X				✓
OK310830060020_00	Fort Cobb Lake	4,100	L	**4a**	2014	**N**	F				F	F		F		**N**				✓
OK310830060030_00	Willow Creek	9.24	R	**4a**	2013	F	F				I	X		**N**		F				✓
OK310830060040_00	Lake Creek	16.27	R	2	2016	F	F				F	X		X		I				✓
OK310830060050_00	Cobb Creek	17.34	R	**4a**	2016	F	F				F	X		**N**		I				✓
OK310830060060_00	Camp Creek	4.42	R	3	2013	X	X				X	X		X		X				✓
OK310830060070_00	Crooked Creek	6.05	R	3	2013	X	X				X	X		X		X				✓
OK310830060080_00	Fivemile Creek	12.22	R	**4a**	2016	F	F				F	X		**N**		I				✓
OK310830060090_00	Buck Creek	6.59	R	3	2013	X	X				X	X		X		X				✓
OK310830060100_00	Spring Creek	7.00	R	3	2013	X	X				X	X		X		X				✓
OK310830060110_00	Bull Creek	4.29	R	3	2013	X	X				X	X		X		X				✓
OK310830060120_00	Cobb Creek	7.32	R	3	2013	X	X				X	X		X		X				✓
OK310830060130_00	**Crowder Lake**	**158**	**L**	**5a**	**2014**	I	F				**N**	F		F		**N**				✓
OK310830060140_00	Possum Hollow Creek	4.05	R	3	2013	X	X				X	X		X		X				✓
OK310830060150_00	Crowder Lake, NW Trib to	2.00	R	3	2016	X	X				X	X		X		X				✓
OK310830060160_00	Crowder Lake, SW Trib to	1.18	R	3	2016	X	X				X	X		X		X				✓
OK310840010010_00	**Washita River**	**18.62**	**R**	**5a**	**2016**	F	F				**N**	**N**		**N**		F				
OK310840010020_00	**Foss Lake**	**8,800**	**L**	**5a**	**2016**	F	F				**N**	I		I		I				
OK310840010030_00	Soldier Creek	6.47	R	3	2013	X	X				X	X		X						
OK310840010040_00	Little Panther Creek	9.20	R	3	2013	I	I				I	X		X						

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OK310840010050_00	Panther Creek	10.94	R	3	2013	I	I				I	X		X		X				
OK310840010060_00	**Quartermaster Creek**	**32.98**	**R**	**5a**	**2016**	I	**N**				**N**	X		**N**		I				
OK310840010070_00	Wild Horse Creek	10.88	R	3	2016	X	X				I	X		X						
OK310840010080_00	North Branch	18.97	R	3	2013	X	X		X			X			X					
OK310840010090_00	Dry Branch	5.45	R	3	2013	X	X				X	X		X						
OK310840010100_00	Hay Creek	13.42	R	3	2013	X	X				X	X		X		X				
OK310840010110_00	Cyclone Creek	6.47	R	3	2013	X	X				X	X		X						
OK310840010120_00	White Shield Creek	18.19	R	3	2016	I	X		I			X			X					
OK310840010130_00	Ninemile Creek	18.05	R	3	2013	I	I				I	X		X						
OK310840010140_00	Big Kiowa Creek	14.93	R	3	2013	X	X				X	X		X						
OK310840020010_00	Washita River	61.94	R	**4a**	2013	F	F				**N**	X		I		I				
OK310840020020_00	**Sandstone Creek**	**14.59**	**R**	**5b**	**2016**	F	**N**				F	X		**N**		I				
OK310840020040_00	Sandstone Creek, East Fork	9.57	R	3	2013	X	X				X	X		X						
OK310840020050_00	Currant Creek	8.04	R	3	2013	X	X				X	X		X						
OK310840020060_00	Taylor Lake	100	L	3	2016	X	X				X	X		X						
OK310840020070_00	Sandstone Creek	8.43	R	2	2016	I	X				F	X		X		X				
OK310840020080_00	Baker Lake	118	L	3	2016	X	X				X	X		X						
OK310840020090_00	Marshall Lake	80	L	3	2016	X	X				X	X		X						
OK310840020100_00	Beaverdam Creek	8.61	R	3	2013	X	X				X	X		X						
OK310840020110_00	Wild Horse Creek	11.28	R	3	2013	X	X				X	X		X						
OK310840020120_00	Dead Indian Creek	15.65	R	3	2013	X	X				X	X		X		X				
OK310840020130_00	Dead Indian Lake	79	L	3	2016	X	X				X	X		X						

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OK310840020140_00	Sergeant Major Creek	11.55	R	3	2013	I	I		X			X			X	I				
OK310840020150_00	Dry Creek	5.33	R	3	2013	X	X				X	X		X						
OK310840020160_00	Sergeant Major Creek, East Fork	5.70	R	2	2013	F	F				X	X		X						
OK310840020170_00	Plum Creek	4.11	R	3	2013	X	X				X	X		X						
OK310840020180_00	Brokenleg Creek	8.00	R	3	2013	X	X				X	X		X						
OK310840020190_00	Croton Creek	16.14	R	3	2013	X	X				X	X		X		X				
OK310840020200_00	Croton Creek, East	7.30	R	3	2013	X	X				X	X		X						
OK310840020210_00	Rush Creek	16.33	R	3	2013	I	I				I	X		X		X				
OK310840020220_00	Croton Creek, Unnamed Trib of	3.91	R	3	2013	X	X				X	X		X						
OK310840020230_00	Skipout Lake (S-53)	47	L	3	2016	X	X				X	X		X						
OK310840020240_00	**Spring Creek**	**5.90**	**R**	**5a**	**2016**	I	F				**N**	X		**N**						
OK310840020250_00	Spring Creek Lake (S-42)	40	L	3	2016	X	X				X	X		X						
OK310840020260_00	Turkey Creek	8.14	R	3	2013	X	X				X	X		X						
OK310840020270_00	Trunk Creek	5.25	R	3	2013	X	X				X	X		X						
OK311100010020_00	Texoma Lake	15,743	L	2	2016	F	F				I	I		I		I				
OK311100010030_00	Texoma Lake, Red River Arm, Lower	31,081	L	2	2016	F	F				I	I		I		I				
OK311100010040_00	McLaughin Creek	2.37	R	3	2013	X	X				X	X		X						
OK311100010050_00	Caney Creek	5.28	R	3	2013	X	X				X	X		X						
OK311100010060_00	Happy Hollow Creek	2.05	R	3	2013	X	X				X	X		X						
OK311100010070_00	Buncombe Creek	9.90	R	3	2013	X	X				X	X		X						
OK311100010080_00	**Texoma Lake, Red River Arm, Upper**	**11,466**	**L**	**5a**	**2016**	I	F				**N**	I		I		I				
OK311100010090_00	Brier Creek	12.08	R	3	2013	X	X				X	X		X						

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OK311100010100_00	House Creek	7.07	R	3	2013	X	X				X	X		X						
OK311100010110_00	Havani Creek	1.25	R	3	2013	X	X				X	X		X						
OK311100010120_00	Little Havani Creek	12.26	R	3	2013	X	X				X	X		X						
OK311100010130_00	Havani Creek	10.03	R	3	2013	X	X				X	X		X		X				
OK311100010140_00	Havani Lake	300	L	3	2016	X	X				X	X		X		X				
OK311100010150_00	Wilson Creek	12.68	R	3	2013	X	X				X	X		X						
OK311100010170_00	Pumpkin Creek	7.01	R	3	2013	X	X				X	X		X						
OK311100010180_00	Oil Creek	8.40	R	3	2013	X	X				X	X		X						
OK311100010190_00	**Red River**	**47.84**	**R**	**5a**	**2016**	I	**N**				**N**	I		**N**		I				
OK311100010190_10	Red River	31.99	R	3	2013	X	X				X	X		X		X				
OK311100010190_20	**Red River**	**46.43**	**R**	**5a**	**2016**	I	F				**N**	**N**		**N**		I				
OK311100010190_30	Red River	10.36	R	3	2013	X	X				X	X		X		X				
OK311100010200_00	Corcoran Creek	11.75	R	3	2013	I	I				I	X		X						
OK311100010210_00	Leeper Lake	150	L	2	2016	I	I				I	I		F						
OK311100010220_00	Clouds Branch	9.02	R	3	2013	X	X				X	X		X						
OK311100010230_00	**Bills Creek**	**8.43**	**R**	**5a**	**2013**	I	X				I	X		**N**						
OK311100010240_00	Rock Creek	5.82	R	3	2013	X	X				X	X		X						
OK311100010250_00	**Walnut Bayou**	**10.82**	**R**	**5a**	**2016**	I	F				F	I		**N**		I				
OK311100010260_00	Dry Creek	7.23	R	3	2013	X	X				X	X		X						
OK311100010270_00	Coffeepot Creek	6.76	R	3	2013	X	X				X	X		X						
OK311100010290_00	**Red Creek**	**17.42**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		I				
OK311100010295_00	Cat Creek	5.82	R	3	2013	X	X				X	X		X						

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OK311100010300_00	**Fleetwood Creek**	**10.91**	**R**	**5a**	**2016**	I	F				**N**	X		**N**		I				
OK311100020010_10	**Hickory Creek**	**37.28**	**R**	**5a**	**2016**	I	F				F	I		**N**		I				
OK311100020020_00	Anadarche Creek	2.28	R	3	2013	X	X				X	X		X		X				
OK311100020050_00	Anadarche Creek, East	3.18	R	3	2013	X	X				X	X		X		X				✓
OK311100020070_00	Fourche Maline Creek	4.56	R	3	2013	X	X				X	X		X		X				✓
OK311100020080_00	Anadarche Creek, West	4.51	R	3	2013	X	X				X	X		X		X				✓
OK311100020090_00	**Lake Murray**	**5,458**	**L**	**5a**	**2016**	F	F				**N**	F		F		F				✓
OK311100020100_00	Little Hickory Creek	9.13	R	3	2013	X	X				X	X		X						
OK311100020110_00	Hickory Creek, South Branch	7.28	R	3	2013	X	X				X	X		X						
OK311100020120_00	Spring Branch	6.10	R	3	2013	X	X				X	X		X						
OK311100030010_00	Walnut Bayou	14.97	R	3	2013	I	I				X	X		I		X				
OK311100030020_00	Simon Creek	19.84	R	2	2013	I	F				I	X		X		I				
OK311100030030_00	Simon Creek, North	5.44	R	3	2013	X	X				X	X		X						
OK311100030032_00	Sparks Branch	4.38	R	3	2013	X	X				X	X		X						
OK311100030040_00	Cherokee Creek	3.62	R	3	2013	X	X				X	X		X						
OK311100030050_00	Polecat Creek	5.32	R	3	2013	I	I				I	X		X						
OK311100030060_00	Bull Creek	7.04	R	3	2013	X	X		X			X			X					
OK311100030070_00	Walnut Creek (Walnut Bayou)	28.38	R	3	2013	I	I				I	X		X		I				
OK311100030080_00	Demijohn Creek	9.82	R	3	2013	X	X				X	X		X						
OK311100030090_00	Cottonwood Creek	11.37	R	3	2013	I	I				I	X		X		I				
OK311100030100_00	Red Oak Creek	4.62	R	3	2013	I	I				I	X		X						
OK311100030110_00	Oil Branch	0.84	R	2	2013	I	F				I	X		X						

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OK311100030120_00	Oil Branch	5.01	R	3	2013	X	X				X	X		X						
OK311100030130_00	**Healdton Municipal Lake**	**370**	**L**	**5a**	**2014**	F	F				**N**	I		F		I				
OK311100030140_00	Whiskey Creek	5.90	R	2	2013	I	F		X			X			X					
OK311100030150_00	Red Branch	3.76	R	3	2013	X	X				X	X		X						
OK311100030160_00	Rexroat Branch!	4.48	R	3	2013	X	I				I	X		X						
OK311100030170_00	Healdton Branch!	2.37	R	3	2013	I	I				I	X		X						
OK311100030180_00	Walnut Creek, Unnamed Tributary of	7.56	R	3	2013	X	X		X			X			X					
OK311100030190_00	Cottonwood Creek, Unnamed Tributary of	4.90	R	3	2013	X	X		X			X			X					
OK311100040010_00	**Mud Creek**	**49.53**	**R**	**5a**	**2016**	F	F				**N**	F		**N**		I				
OK311100040020_00	Clear Creek	15.91	R	3	2013	I	I				I	X		X		X				
OK311100040030_00	Mud Creek, North	27.87	R	3	2013	I	I		I			X		I		I				
OK311100040035_00	North Mud Creek, Unnamed Tributary of	1.42	R	3	2013	X	X		X			X			X					
OK311100040040_00	Post Oak Creek	11.07	R	3	2013	X	X				X	X		X						
OK311100040045_00	**Oak Creek!**	**3.04**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK311100040050_00	Long Branch	8.62	R	3	2013	X	X				X	X		X						
OK311100040060_00	Fox Branch	5.31	R	2	2018	F	I				I	X		X						
OK311100040070_00	Cottonwood Creek	7.33	R	2	2013	I	F				I	X		X						
OK311100040080_00	**Mud Creek, Lower West**	**27.81**	**R**	**5a**	**2013**	F	F				**N**	X		**N**						
OK311100040090_00	**Post Oak Creek**	**7.53**	**R**	**5b**	**2016**	I	**N**				I	X		X						
OK311100040100_00	Negro Creek	14.33	R	3	2013	I	I				I	X		X		I				
OK311100040110_00	Willow Branch	14.33	R	2	2013	I	F				I	X		X		I				
OK311100040120_00	Crooked Creek	9.69	R	3	2013	X	X				X	X		X		X				

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OK311100040130_00	Deer Creek	13.63	R	3	2013	I	I				I	X		X		I				
OK311100040140_00	Deer Creek, South Fork	5.28	R	3	2013	I	I				I	X		X						
OK311100040150_00	Boardtree Creek	5.79	R	3	2018	I	I				I	X		X						
OK311100040155_00	Boardtree Creek, Unnamed Trib of	4.31	R	3	2018	I	I				I	X		X						
OK311100040160_00	Comanche Creek	7.80	R	3	2013	X	X				X	X		X						
OK311100040170_00	Comanche Lake	184	L	2	2016	F	F				I	F		F						
OK311100040180_00	Mud Creek, East	13.86	R	3	2013	I	I				I	X		X						
OK311100040190_00	Weed Hollow Creek	3.70	R	3	2013	X	X				X	X		X						
OK311100040200_00	Mud Creek, West	14.07	R	3	2013	I	I				I	X		X		I				
OK311100040210_00	Pine Creek	10.96	R	2	2013	I	F				I	X		X						
OK311100040220_00	Mud Creek	17.96	R	3	2013	X	X				X	X		X						
OK311200000010_00	**Red River**	**30.02**	**R**	**5a**	**2013**	I	**N**				**N**	I		**N**		**N**				
OK311200000010_10	Red River	6.58	R	3	2013	X	X				X	X		X		X				
OK311200000013_00	Little Rain	7.20	R	3	2013	X	X				X	X		X						
OK311200000030_00	**Beaver Creek**	**30.69**	**R**	**5a**	**2013**	F	F				**N**	X		**N**		I				
OK311200000040_00	Hackberry Creek	5.38	R	3	2013	X	X				X	X		X						
OK311200000050_00	Squirrel Creek	7.54	R	3	2013	X	X				X	X		X						
OK311200000060_00	Cow Creek	25.73	R	**4a**	2016	F	F				F	I		**N**			F			
OK311200000070_00	Monument Creek	6.17	R	2	2013	I	F				I	X		X						
OK311200000080_00	**Dry Creek**	**20.96**	**R**	**5a**	**2016**	F	I				**N**	X		**N**		I				
OK311200000090_00	Cotton Creek	8.35	R	3	2013	X	X				X	X		X		X				
OK311200000100_00	Cow Creek, East	12.21	R	2	2013	X	X		X			X			X		F			

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OK311200000110_00	**Claridy Creek**	**8.43**	**R**	**5a**	**2013**	**N**					**N**	X		X			F			
OK311200000120_00	**Willow Creek**	**7.32**	**R**	**5a**	**2013**	**N**	X				**N**	X		X						
OK311200000140_00	Jap Beaver Lake	65	L	3	2016	X	X				X	X		X						
OK311200000150_00	Whiskey Creek	20.47	R	3	2013	X	X				X	X		X						
OK311200000160_00	Cow Creek, East, Unnamed Tributary of	3.51	R	3	2013	X	X		X			X			X		X			
OK311210000010_00	Beaver Creek	46.89	R	3	2013	I	I				I	X		X		I				✓
OK311210000020_00	**Waurika Lake**	**10,100**	**L**	**5a**	**2016**	F	F				**N**	F		F		**N**				✓
OK311210000030_00	**Walker Creek**	**10.02**	**R**	**5b**	**2016**	I	**N**				I	X		X		I				✓
OK311210000040_00	Mills Creek	6.09	R	3	2013	X	X				X	X		X						
OK311210000050_00	Little Beaver Creek	39.49	R	**4a**	2016	F	I				F	X		**N**		I				✓
OK311210000060_00	**Stage Stand Creek**	**12.94**	**R**	**5c**	**2016**	I	I				**N**	X		X		I				✓
OK311210000070_00	Rock Creek	9.36	R	3	2013	X	X				X	X		X						
OK311210000080_00	Hell Creek	9.88	R	3	2013	I	I				I	X		X		I				✓
OK311210000090_00	Buckhorn Creek	5.62	R	3	2013	X	X				X	X		X						
OK311210000100_00	Gooden Creek	14.47	R	3	2013	X	X				X	X		X						
OK311210000110_00	Dry Beaver Creek	14.26	R	3	2013	I	I				I	X		X						
OK311210000120_00	Armstrong Creek	9.20	R	2	2016	I	X				F	X		X						
OK311210000130_00	Ninemile Beaver Creek	20.49	R	3	2013	I	I				I	X		X		X				
OK311210000140_00	Whisky Creek	10.28	R	**4a**	2013	F	I				I	X		**N**						
OK311210000143_00	Whisky Creek, West	5.09	R	3	2013	I	X				X	X		X						
OK311210000150_00	**Cottonwood Creek**	**7.21**	**R**	**5b**	**2018**	I	**N**				I	X		**N**						
OK311300010010_00	Cache Creek	8.85	R	3	2013	I	I				I	X		X		I				

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OK311300010020_00	Cache Creek, East	9.05	R	**4a**	2016	I	F				**N**	F		**N**		I				
OK311300010020_10	**Cache Creek, East**	**17.11**	**R**	**5a**	**2013**	I	F				**N**	**N**		**N**		I				
OK311300010030_00	Temple Creek	4.25	R	3	2013	X	X				X	X		X						
OK311300010040_00	Mooney Creek	3.20	R	3	2013	X	X				X	X		X		X				✓
OK311300010050_00	Temple Lake (Mooney)	26	L	3	2016	X	X				X	X		X		X				✓
OK311300010060_00	Soldier Creek	9.66	R	3	2013	X	X				X	X		X						
OK311300010070_00	Walters Creek	4.70	R	3	2013	X	X				X	X		X		X				✓
OK311300010080_00	**Walters Lake (Boyer)**	**148**	**L**	**5a**	**2016**	F	F				**N**	F		F		**N**				✓
OK311300010090_00	Gravel Pits Creek!	4.14	R	3	2013	X	X				X	X		X						
OK311300010100_00	**Cache Creek, Unnamed Trib of East**	**8.57**	**R**	**5b**	**2015**	I	**N**				I	X		X						
OK311300020005_00	Sharon Stream	2.31	R	3	2013	X	X				X	X		X						
OK311300020010_00	Cache Creek, East	27.89	R	3	2013	X	X				X	X		X		X				
OK311300020010_05	Cache Creek, East	15.27	R	2	2016	X	X				F	X		X		X				
OK311300020010_10	**Cache Creek, East**	**17.08**	**R**	**5a**	**2016**	F	**N**				**N**	X		**N**		X				
OK311300020020_00	Snake Creek	19.80	R	3	2013	I	I				I	X		X						
OK311300020030_00	Ninemile Creek	9.55	R	3	2013	X	X				X	X		X						
OK311300020032_00	Ninemile Creek, Unnamed Tributary of	3.70	R	3	2013	X					X	X		X						
OK311300020034_00	Ninemile Creek	3.33	R	3	2018	I	I				I	X		X						
OK311300020040_00	Wolf Creek	10.20	R	2	2016	X	X				F	X		X		X				
OK311300020050_00	Wolf Creek, East Branch	7.58	R	3	2013	X	X				X	X		X						
OK311300020060_00	Wolf Creek, West Branch	10.81	R	3	2013	X	X				X	X		X						
OK311300020070_00	Numu Creek	9.72	R	3	2013	X	X				X	X		X						

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OK311300020090_00	Wrattan Creek	6.24	R	3	2013	X	X				X	X		X						
OK311300020100_00	George Lake	150	L	3	2016	X	X				X	X		X						
OK311300020110_00	Sitting Bear Creek	5.31	R	3	2013	X	X				X	X		X						
OK311300020120_00	Beef Creek	9.79	R	3	2013	X	X				X	X		X						
OK311300020130_00	Lime Creek	7.52	R	3	2013	X	X				X	X		X						
OK311300020140_00	Rock Creek	5.46	R	3	2013	X	X				X	X		X						
OK311300030010_10	Cache Creek, East	28.40	R	3	2013	X	X				X	X		X		X				✓
OK311300030020_00	**Ellsworth Lake**	**5,600**	**L**	**5a**	**2016**	F	F				**N**	F		F		**N**				✓
OK311300030030_00	Chandler Creek	10.50	R	2	2016	I	X				F	X		X		X				✓
OK311300030040_00	Tony Creek	5.73	R	3	2013	X	X				X	X		X		X				✓
OK311300030050_00	Mission Creek	12.91	R	3	2013	X	X				X	X		X		X				✓
OK311300030060_00	Box Elder Creek	9.95	R	3	2013	I	I				I	X		X		X				✓
OK311300030070_00	**Tahoe Creek**	**16.79**	**R**	**5a**	**2013**	**N**	**N**				**N**	X		**N**		**N**				✓
OK311300030080_00	Unnamed Tributary	6.73	R	3	2013	X	X				X	X		X		X				✓
OK311300040010_00	Medicine Creek	11.95	R	3	2013	X	X				X	X		X		X				
OK311300040020_00	Ketch Creek	12.81	R	3	2013	X	X				X	X		X						
OK311300040030_00	Deer Creek	3.21	R	3	2013	X	X				X	X		X						
OK311300040040_00	Little Medicine Creek	3.99	R	3	2013	X	X				X	X		X		X				✓
OK311300040050_00	**Elmer Thomas Lake**	**334**	**L**	**5a**	**2014**	F	F				**N**	**N**		F		F				✓
OK311300040060_00	**Medicine Creek**	**17.71**	**R**	**5a**	**2016**	F	F				F	X		**N**		I				✓
OK311300040070_00	Lawtonka Lake	2,398	L	**4a**	2016	F	F				I	F		F		**N**				✓
OK311300040080_00	Canyon Creek	7.63	R	3	2013	X	X				X	X		X		X				✓

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OK311300040090_00	Cedar Creek	4.34	R	3	2013	X	X				X	X		X		X				✓
OK311300040100_00	Jimmy Creek	7.02	R	2	2016	X	X				F	X		X		X				✓
OK311300040110_00	Medicine Creek, Unnamed Trib of	6.67	R	3	2013	X	X				X	X		X		X				✓
OK311310010010_00	**Red River**	**88.02**	**R**	**5a**	**2016**	I	**N**				**N**	F		**N**			F			
OK311310010020_00	Rabbit Creek	13.98	R	2	2016	I	I				F	X		X		X				
OK311310010025_00	**Hound Creek**	**7.56**	**R**	**5b**	**2018**	I	**N**				X	X		X						
OK311310010030_00	Bird Creek	4.16	R	3	2013	X	X				X	X		X						
OK311310010035_00	Red River, Unnamed Tributary of	4.60	R	3	2013	X	X		X			X			X					
OK311310010040_00	Blue Creek	15.54	R	3	2013	X	X				X	X		X		X				
OK311310010050_00	Curtis Creek	12.98	R	3	2013	I	I				I	X		X						
OK311310010060_00	Cooper Creek	11.64	R	3	2013	X	X				X	X		X						
OK311310010070_00	**Suttle Creek**	**19.41**	**R**	**5b**	**2016**	I	**N**				**N**	X			I					
OK311310010080_00	Bottle Creek	5.11	R	3	2013	X	X				X	X		X						
OK311310010080_01	Bottle Creek	3.60	R	3	2013	X	X				X	X		X						
OK311310010090_00	Suttle Creek, Unnamed Tributary of	9.32	R	3	2013	X	X		X			X			X					
OK311310010100_00	Grandma Ruth Creek	10.84	R	3	2013	X	X				X	X		X						
OK311310020010_00	**Cache Creek, West**	**9.10**	**R**	**5b**	**2016**	I	**N**				**N**	F		**N**		I				
OK311310020010_10	**Cache Creek, West**	**19.17**	**R**	**5a**	**2016**	F	F				F	X		**N**		I				
OK311310020020_00	Cache Creek, West	16.45	R	3	2013	X	X				I	X		X		X				
OK311310020020_10	Cache Creek, West	13.58	R	3	2013	X	X				X	X		X		X				
OK311310020030_00	Pecan Creek	29.91	R	3	2013	X	X				X	X		X		X				
OK311310020040_00	Spring Creek	10.25	R	3	2013	X	X				X	X		X						

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OK311310020043_00	Molly's Creek	2.29	R	3	2013	X	X				X	X		X						
OK311310020050_00	Blue Beaver Creek	8.00	R	3	2013	X	X				X	X		X		X				
OK311310020060_00	**Blue Beaver Creek**	**18.33**	**R**	**5a**	**2013**	F	F				I	X		**N**		F				
OK311310020068_00	**Rush Lake**	**53**	**L**	**5c**	**2018**	X	X				X	**N**		X						
OK311310020070_00	Post Oak Creek	24.86	R	3	2016	I	X				I	X		X		X				
OK311310020080_00	Little Post Oak Creek	23.15	R	3	2013	X	X				X	X		X						
OK311310020090_00	Sandy Creek	25.11	R	3	2013	X	X				X	X		X						
OK311310020100_00	Crater Creek	11.11	R	3	2013	X	X				X	X		X		X		✓		
OK311310020110_00	Rock Creek	8.78	R	3	2013	X	X				X	X		X						
OK311310020120_00	Quanah Creek	7.44	R	3	2013	X	X				X	X		X						
OK311310020130_00	**Quanah Parker Lake**	**89**	**L**	**5c**	**2016**	X	X				X	**N**		X						
OK311310020140_00	Cache Creek, West	8.47	R	2	2016	X	X				F	X		X		X		✓		
OK311310020150_00	**Panther Creek**	**7.48**	**R**	**5a**	**2016**	I	X				**N**	X		X		X		✓		
OK311310020160_00	Lost Lake	7	L	3	2016	X	X				X	X		X						
OK311310020170_00	French Lake	33	L	3	2016	X	X				X	X		X						
OK311310020180_00	Deer Creek	3.84	R	3	2013	X	X				X	X		X						
OK311310020190_00	Comanche Lake	46	L	3	2016	I	X				I	X		X						
OK311310020200_00	Grama Lake	94	L	3	2016	I	X				X	X		X						
OK311310020210_00	Kiowa Lake	9	L	3	2016	X	X				X	X		X						
OK311310030010_00	**Deep Red Creek**	**57.29**	**R**	**5b**	**2018**	F	**N**				**N**	X		**N**		I				
OK311310030020_00	Dry Red Creek	10.06	R	3	2013	I	I				I	X		X						
OK311310030030_00	Jack Creek	23.87	R	3	2013	I	I				I	X		X		X				

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OK311310030031_00	Whites Creek	2.42	R	3	2013	X	X				X	X		X						
OK311310030032_00	Whites Lake	300	L	3	2016	X	X				X	X		X						
OK311310030040_00	**Little Deep Red Creek**	**33.57**	**R**	**5a**	**2013**	I	**N**				**N**	X		**N**		I				
OK311310030050_00	**Brush Creek**	**11.64**	**R**	**5a**	**2018**	**N**	**N**				**N**	X		**N**						
OK311310030070_00	Jack Creek, East	12.08	R	3	2013	X	X				X	X		X		X				
OK311310030080_00	Horse Creek	23.41	R	3	2013	X	X				X	X		X		X				
OK311310030090_00	Deadman Creek	16.60	R	3	2013	X	X				X	X		X		X				
OK311310030100_00	Coffin Creek	11.19	R	3	2013	X	X				X	X		X						
OK311310030110_00	Deep Red Creek	21.47	R	3	2013	I	I				I	X		X		X				
OK311310030120_00	**Frederick Lake**	**925**	**L**	**5a**	**2016**	F	F				**N**	X		F		F				
OK311310030130_00	Deep Red Creek, East Fork	9.71	R	3	2013	X	X				X	X		X						
OK311500010010_00	Red River	17.91	R	2	2013	X	X				X	X		X			F			
OK311500010020_00	Red River, North Fork	22.72	R	3	2013	X	X				X	X		X		X				
OK311500010020_10	**Red River, North Fork**	**61.70**	**R**	**5a**	**2016**	F	**N**				**N**	F		**N**		I				
OK311500010020_20	Red River, North Fork	2.96	R	3	2013	X	X				X	X		X		X				
OK311500010023_00	Maxwell's Creek	2.83	R	3	2013	X	X				X	X		X						
OK311500010030_00	White Creek	5.33	R	3	2013	X	X				X	X		X						
OK311500010040_00	White Lake	10	L	3	2016	X	X				X	X		X						
OK311500010042_00	Red Top	4.48	R	3	2013	X	X				X	X		X						
OK311500010050_00	**Stinking Creek**	**17.44**	**R**	**5a**	**2018**	F	**N**				**N**	X		**N**		**N**				
OK311500010055_00	Stinking Creek, Unnamed Tributary of	11.93	R	3	2013	X	X		X			X			X		X			
OK311500010060_00	Mimi Creek	2.57	R	3	2013	X	X				X	X		X						

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OK311500010070_00	Red Hollow	1.75	R	3	2013	X	X				X	X		X						
OK311500010080_00	**Otter Creek**	**23.13**	**R**	**5b**	**2018**	I	**N**				I	X		**N**		I				
OK311500010090_00	Owl Creek	7.70	R	3	2013	I	I				I	X		X						
OK311500010110_00	**Tepee Creek**	**19.44**	**R**	**5b**	**2018**	I	**N**				F	X		**N**						
OK311500020010_00	Otter Creek, East	20.21	R	3	2013	I	I				I	X		X						
OK311500020020_00	Telephone Creek	10.11	R	3	2013	X	X				X	X		X						
OK311500020030_00	Boggy Hollow Creek	5.62	R	3	2013	X	X				X	X		X						
OK311500020040_00	Otter Creek, West	6.77	R	**4a**	2016	F	F				I	X		**N**		F				
OK311500020050_00	Otter Creek, West	13.85	R	3	2013	X	X				X	X		X		X				✓
OK311500020060_00	**Tom Steed Lake (Mountain Park)**	**6,400**	**L**	**5a**	**2016**	I	F				**N**	F		F		**N**				✓
OK311500020070_00	Glen Creek	14.15	R	3	2013	I	I				I	X		X		X				✓
OK311500030005_00	Wolfpack	3.67	R	3	2013	X	X				X	X		X						
OK311500030010_00	**Elk Creek**	**15.70**	**R**	**5a**	**2016**	F	**N**				**N**	F		**N**		I				
OK311500030030_00	Elk Creek	7.85	R	3	2013	I	I				I	X		I		I				
OK311500030030_10	Elk Creek	62.97	R	2	2016	X	X		F			X			X					
OK311500030040_00	**Little Elk Creek**	**15.40**	**R**	**5a**	**2016**	F	F				I	X		**N**		I				
OK311500030050_00	Little Elk Creek	17.40	R	2	2013	I	F				I	X		X						
OK311500030060_00	**Rocky (Hobart) Lake**	**347**	**L**	**5a**	**2016**	I	F				**N**	F		F		**N**				✓
OK311500030070_00	**Trail Creek**	**19.15**	**R**	**5a**	**2016**	F	**N**				F	X		**N**		I				
OK311500030080_00	Spring Creek	8.96	R	3	2013	X	X				X	X		X		X				
OK311500030090_00	George Creek	4.17	R	3	2013	X	X				X	X		X						
OK311500030100_00	Sadler Creek	8.98	R	3	2013	I	I				I	X		X						

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OK311500030110_00	Elk Creek, West	9.68	R	3	2013	I	I				I	X		X						
OK311500030120_00	**Elk City Lake**	**240**	**L**	**5a**	**2014**	I	F				**N**	F		F						
OK311510010010_10	Red River, North Fork	47.29	R	1	2016	F	F				F	F		F		F				
OK311510010020_00	**Altus Lake (Altus-Lugert)**	**6,260**	**L**	**5a**	**2014**	F	F				**N**	I		F						
OK311510010030_00	Armstrong Creek	4.08	R	3	2013	X	X				X	X		X						
OK311510010040_00	Lake Creek	13.33	R	**4a**	2016	F	F				F	X		**N**						
OK311510010050_00	Boggy Creek	5.04	R	3	2013	I	I				I	X		X						
OK311510010060_00	Spring Creek	9.65	R	3	2013	X	X				X	X		X						
OK311510010070_00	Flat Creek	5.70	R	3	2013	X	X				X	X		X						
OK311510010080_00	Indian Creek	13.51	R	3	2013	X	X				X	X		X						
OK311510010090_00	**Timber Creek**	**12.01**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		I				
OK311510010100_00	Coffee Bean Creek	6.82	R	3	2013	X	X				X	X		X						
OK311510010110_00	Spring Creek	6.16	R	3	2013	X	X				X	X		X						
OK311510010120_00	Timber Creek, East	5.11	R	3	2013	X	X				X	X		X						
OK311510010130_00	Timber Creek, West	5.89	R	3	2013	X	X				X	X		X						
OK311510020010_00	**Red River, North Fork**	**37.86**	**R**	**5c**	**2016**	I	I				**N**	X		X		X				
OK311510020020_00	Deep Creek	7.80	R	3	2013	X	X				X	X		X						
OK311510020030_00	Short Creek	9.58	R	3	2013	X	X				X	X		X						
OK311510020040_00	**Sand Creek**	**13.05**	**R**	**5c**	**2013**	I	X				**N**	X		X		I				
OK311510020050_00	Long Creek	17.28	R	3	2013	I	I				I	X		X		X				
OK311510020060_00	Turkey Creek	19.42	R	**4a**	2013	F	I				I	X		**N**		F				
OK311510020070_00	Starvation Creek	16.97	R	3	2013	I	I				I	X		X		X				

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OK311510020080_00	Little Turkey Creek	15.89	R	2	2016	I	X				F	X		X						
OK311510020090_00	Buffalo Creek	20.32	R	**4a**	2016	F	F				F	X		**N**		I				
OK311510020100_00	Buffalo Creek, West	7.90	R	3	2013	X	X				X	X		X						
OK311510020110_00	Middle Buffalo Creek	11.16	R	3	2013	X	X				X	X		X						
OK311510020120_00	Sweetwater Creek	16.43	R	**4a**	2016	F	F				F	X		**N**		I				
OK311510020130_00	Salt Creek	5.26	R	3	2013	I	I				I	X		X						
OK311510020140_00	Freezeout Creek	4.57	R	3	2013	X	X				X	X		X						
OK311510020150_00	Meridan Creek	8.52	R	3	2013	X	X				X	X		X						
OK311600010010_00	Red River	55.99	R	2	2013	X	X				X	X		X			F			
OK311600010020_00	**Gypsum Creek**	**28.10**	**R**	**5a**	**2016**	I	**N**				**N**	X		**N**		I				
OK311600010030_00	Mule Creek	5.98	R	3	2013	X	X				X	X		X						
OK311600010032_00	Mule Creek	6.74	R	3	2013	X	X				X	X		X						
OK311600010035_00	James Creek	5.64	R	3	2013	X	X				X	X		X						
OK311600010040_00	**Sandy Creek (Lebos)**	**39.65**	**R**	**5a**	**2016**	F	**N**		**N**			F			F		F			
OK311600010050_00	Sandy Creek, East Fork (Sandy)	14.16	R	3	2013	X	X				X	X		X						
OK311600010060_00	Sandy Creek, West Fork (Lebos)	13.22	R	3	2013	I	I		X			X			X					
OK311600010065_00	Lebos Creek, Unnamed Tributary of	2.30	R	3	2013	X	X		X			X			X					
OK311600010070_00	Bitter Creek	7.83	R	3	2013	I	I				I	X		X						
OK311600010080_00	Red River, Prairie Dog Town Fork	3.92	R	2	2013	X	X				X	X		X			F			
OK311600010085_00	Paradiagn	1.03	R	3	2013	X	X				X	X		X						
OK311600010090_00	Buck Creek	4.20	R	3	2013	I	I				I	X		X						
OK311600020010_00	**Red River, Salt Fork**	**13.67**	**R**	**5a**	**2016**	I	**N**				**N**	**N**		**N**		**N**				

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OK311600020010_10	Red River, Salt Fork	69.63	R	**4a**	2016	I	F				F	F		**N**		I				
OK311600020030_00	West Canal	4.87	R	3	2013	X	X				X	X		X						
OK311600020060_00	**Turkey Creek**	**51.64**	**R**	**5a**	**2016**	I	**N**				**N**	X		**N**		I				
OK311600020070_00	Horse Branch	21.29	R	3	2013	I	I				I	X		X						
OK311600020080_00	Spring Branch	6.55	R	3	2013	X	X				X	X		X						
OK311600020090_00	Cottonwood Creek	13.22	R	3	2013	X	X				X	X		X						
OK311600020110_00	**Bitter Creek**	**3.60**	**R**	**5a**	**2013**	X	X				X	**N**			X		F			
OK311600020110_05	**Bitter Creek**	**7.80**	**R**	**5a**	**2016**	F	**N**		**N**			**N**			**N**		F			
OK311600020110_10	**Bitter Creek**	**18.57**	**R**	**5a**	**2013**	X	X		X			**N**			X		F			
OK311600020115_00	Ronnie's Run	3.70	R	3	2013	X	X				X	X		X						
OK311600020120_00	Fish Creek	5.11	R	3	2013	X	X				X	X		X						
OK311600020130_00	Mulberry Creek	6.37	R	3	2013	I	I				I	X		X						
OK311600020140_00	**Cave Creek**	**13.69**	**R**	**5b**	**2016**	F	**N**				I	X		**N**						
OK311600020150_00	Horse Creek	5.17	R	3	2013	X	X				X	X		X						
OK311600020160_00	Hall Lake Creek	2.50	R	3	2013	X	X				X	X		X						
OK311600020170_00	Hall Lake	50	L	3	2016	X	X				X	X		X						
OK311600020180_00	Bear Creek	5.69	R	3	2013	I	I				I	X		X						
OK311800000010_00	**Red River, Elm Fork**	**36.63**	**R**	**5a**	**2016**	F	F				**N**	**N**		**N**		I				
OK311800000010_10	**Red River, Elm Fork**	**25.69**	**R**	**5a**	**2016**	F	**N**				**N**	F		I		I				
OK311800000015_00	Tarheel	4.83	R	3	2013	X	X				X	X		X						
OK311800000020_00	Left Ear creek	1.30	R	3	2013	X	X				X	X		X						
OK311800000030_00	Tittle Creek	7.77	R	3	2013	X	X				X	X		X						

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OK311800000035_00	Good Golly	1.58	R	3	2013	X	X				X	X		X						
OK311800000040_00	**Haystack Creek**	**43.06**	**R**	**5b**	**2018**	F	**N**				**N**	X		**N**		I				
OK311800000045_00	Rising Dawn	2.64	R	3	2013	X	X				X	X		X						
OK311800000050_00	Sleep John Creek	10.05	R	3	2013	X	X				X	X		X						
OK311800000060_00	**Station Creek**	**10.58**	**R**	**5b**	**2016**	F	**N**				F	X		**N**						
OK311800000070_00	**Deer Creek**	**22.59**	**R**	**5b**	**2018**	F	**N**				**N**	X		**N**		F				
OK311800000080_00	Sulphur Creek	10.21	R	3	2013	X	X				X	X		X						
OK311800000090_00	Root Creek	5.14	R	3	2013	X	X				X	X		X						
OK311800000100_00	Dos Hollis Lake	50	L	3	2016	X	X				X	X		X						
OK311800000110_00	Grape Creek	15.43	R	3	2013	X	X				X	X		X						
OK311800000120_00	Hackbery Creek	2.09	R	3	2013	X	X				X	X		X						
OK311800000130_00	**Fish Creek**	**16.84**	**R**	**5a**	**2016**	F	**N**				**N**	X		**N**		I				
OK311800000140_00	Minnow Creek	4.27	R	3	2013	X	X				X	X		X						
OK311800000150_00	Bull Creek	14.40	R	3	2013	X	X				X	X		X		X				
OK311800000160_00	Elm Creek	5.38	R	3	2013	X	X				X	X		X						
OK311800000170_00	**Elm Creek, West**	**12.77**	**R**	**5a**	**2016**	F	**N**				**N**	X		**N**		I				

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OK410100010010_00	Red River	13.36	R	3	2014	X	X				X	X		X		X				
OK410100010010_10	**Red River**	**22.99**	**R**	**5a**	**2016**	I	F				**N**	**N**		F		I				
OK410100010010_20	Red River	13.76	R	3	2014	X	X				X	X		X		X				
OK410100010010_30	Red River	12.83	R	3	2014	X	X				X	X		X		X				
OK410100010010_40	Red River	11.18	R	3	2014	X	X				X	X		X		X				
OK410100010010_50	Red River	7.03	R	3	2014	X	X				X	X		X		X				
OK410100010020_00	Breedlove Lake	1	L	3	2016	X	X				X	X		X						
OK410100010030_00	Bailey Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK410100010040_00	Caney Lake	1	L	3	2016	X	X				X	X		X						
OK410100010050_00	**Norwood Creek**	**20.15**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		X				
OK410100010060_00	Push Creek	11.58	R	3	2014	X	X				X	X		X						
OK410100010070_00	Norwood Creek, Trib	1.61	R	3	2014	X	X				X	X		X						
OK410100010080_00	Ward Lake	331	L	3	2016	X	X				X	X		X						
OK410100010090_00	Clear Lake	1	L	3	2016	X	X				X	X		X						
OK410100010100_00	1908 Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK410100010110_00	Whitaker Bend Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK410100010120_00	Holly Branch	9.93	R	3	2014	X	X				X	X		X						
OK410100010130_00	Deadman Lake Creek	0.40	R	3	2014	X	X				X	X		X						
OK410100010140_00	Deadman Lake	1	L	3	2016	X	X				X	X		X						
OK410100010150_00	Grassy Lake	1	L	3	2016	X	X				X	X		X						
OK410100010160_00	Holly Branch Lake	1	L	3	2016	X	X				X	X		X						
OK410100010170_00	Forty-One Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						

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OK410100010180_00	Waterfall Creek	8.92	R	3	2014	X	X				X	X		X						
OK410100010190_00	Mintubbe Lake	1	L	3	2016	X	X				X	X		X						
OK410100010210_00	U. T. Waterfall Creek Lake	1	L	3	2016	X	X				X	X		X						
OK410100010230_00	Boss Creek	8.74	R	3	2014	X	X				X	X		X						
OK410100010240_00	Charles Lake Creek	2.77	R	3	2014	X	X				X	X		X						
OK410100010250_00	Charles Lake	1	L	3	2016	I	I				I	I		I						
OK410100010260_00	Old River Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK410100010270_00	Fish Pond Lake	1	L	3	2016	X	X				X	X		X						
OK410100010280_00	Gilford Lake	1	L	3	2016	X	X				X	X		X						
OK410100010290_00	Bryarly Lake	1	L	3	2016	X	X				X	X		X						
OK410100010300_00	Colbert Lake	1	L	3	2016	X	X				X	X		X						
OK410100010310_00	Red Lake	1	L	3	2016	X	X				X	X		X						
OK410100010320_00	Horseshoe Lake, South	1	L	3	2016	X	X				X	X		X						
OK410100010330_00	Horseshoe Lake, North	1	L	3	2016	X	X				X	X		X						
OK410100010340_00	**Waterhole Creek**	**16.61**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		X				
OK410100010360_00	Lick-Skillet Lake	1	L	3	2016	X	X				X	X		X						
OK410100010370_00	Bad Branch	2.93	R	3	2014	X	X				X	X		X						
OK410100010380_00	Perry Creek	6.77	R	3	2014	X	X				X	X		X						
OK410100010390_00	Bokchito Creek	7.44	R	3	2014	X	X				X	X		X						
OK410100010400_00	Whitegrass Creek	7.93	R	3	2014	X	X				X	X		X						
OK410100010420_00	Garvin Creek	5.54	R	3	2014	X	X				X	X		X						
OK410100010440_00	Clear Lake	1	L	3	2016	X	X				X	X		X						

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OK410100010450_00	Buzzard Creek	11.55	R	3	2014	X	X				X	X		X						
OK410100010456_00	Millerton Trib!	2.45	R	3	2014	X	X		I			X			X					
OK410100010460_00	Garland Creek	6.09	R	3	2014		X				X	X		X						
OK410100010470_00	Valiant Creek	1.92	R	3	2014	X	X		X			X			X					
OK410100010480_00	Clear Creek	2.51	R	2	2016	X	X				F	X		X						
OK410100010490_00	Clear Creek	9.34	R	3	2014	I	I				I	X		X						
OK410100010500_00	Doaksville Creek	8.36	R	3	2014	X	X				X	X		X						
OK410100020010_00	Walnut Bayou	4.19	R	3	2014	X	X				X	X		X						
OK410100020020_00	Line Creek	2.99	R	3	2014	X	X				X	X		X						
OK410100020030_00	McKinney Creek	9.67	R	3	2014	X	X				X	X		X						
OK410100020040_00	Sandy Creek	2.27	R	3	2014	X	X				X	X		X						
OK410100020050_00	Yellow Branch	3.60	R	3	2014	X	X				X	X		X						
OK410100020060_00	Surratt Branch	4.88	R	3	2014	X	X				X	X		X						
OK410100020070_00	Parker Creek	6.51	R	3	2014	X	X				X	X		X						
OK410100020080_00	Pine Creek	6.86	R	3	2014	X	X				X	X		X						
OK410200010010_00	Little River	19.74	R	3	2014	X	X	X				X		X		X		✓		
OK410200010020_00	Buck Creek	12.93	R	3	2014	X	X				X	X		X						
OK410200010030_00	Camp Creek	1.10	R	3	2014	X	X				X	X		X						
OK410200010050_00	Red Branch	3.08	R	3	2014	X	X				X	X		X						
OK410200010060_00	Ponka Bok Creek	5.85	R	3	2014	X	X				X	X		X						
OK410200010080_00	Black Creek	5.11	R	3	2014	X	X				X	X		X						
OK410200010090_00	Crooked Creek	2.96	R	3	2014	X	X				X	X		X						

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OK410200010100_00	Forked Lake	1	L	3	2016	X	X				X	X		X						
OK410200010120_00	Goodwater Creek	7.68	R	3	2014	X	X				X	X		X						
OK410200010130_00	Terrapin Creek	5.16	R	3	2014	X	X				X	X		X						
OK410200010140_00	Crooked Creek	10.94	R	3	2014	X	X				X	X		X						
OK410200010150_00	Yanubbe Creek	10.53	R	3	2014	I	I	I				X		X		X				
OK410200010155_00	Yanubbe Creek, Unnamed Tributary of	2.52	R	3	2014	X	X		X			X			X					
OK410200010160_00	Coon Creek	5.61	R	3	2014	X	X				X	X		X						
OK410200010170_00	Yanubbee Creek, West Fork	1.97	R	3	2014	X	X				X	X		X						
OK410200010180_00	Yanubbee Creek, East Fork	2.16	R	3	2014	X	X				X	X		X						
OK410200010190_00	Yanubbee Creek, Middle Fork	2.16	R	3	2014	X	X				X	X		X						
OK410200010200_00	**Little River**	**8.20**	**R**	**5a**	**2014**	I	F	**N**				I		F		F		✓		
OK410200010200_10	**Little River**	**24.14**	**R**	**5a**	**2016**	F	F	**N**				F		F		F		✓		
OK410200010210_00	**Mud Creek**	**17.66**	**R**	**5a**	**2014**	I	I				**N**	I			X		F			
OK410200010218_00	Mud Creek, Unnamed Tributary of	0.70	R	3	2014	X	X		X			X			X					
OK410200010220_00	Rock Creek	4.97	R	3	2014	X	X				X	X		X		X				
OK410200010230_00	Yashoo Creek	19.80	R	3	2014	I	I	I				X		X		X				
OK410200010250_00	Long Branch	2.32	R	3	2014	I	I				X	X		X		I				
OK410200010260_00	Holly Creek	9.62	R	3	2014	X	X				X	X		X						
OK410200010280_00	Salt Creek	3.95	R	3	2014	X	X				X	X		X						
OK410200010300_00	Pine Lake	1	L	3	2016	X	X				X	X		X						
OK410200010320_00	Campbell Creek	2.30	R	3	2014	X	X				X	X		X						
OK410200010330_00	Boktuklo Creek	9.25	R	3	2014	X	X				X	X		X						

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OK410200010340_00	Courthouse Creek	6.71	R	3	2014	X	X				X	X		X						
OK410200020010_00	Caney Creek, North	9.27	R	3	2014	X	X				X	X		X						
OK410200020020_00	White Oak Creek	6.11	R	3	2014	X	X				X	X		X						
OK410200020030_00	Caney Creek, South	5.86	R	3	2014	X	X				X	X		X						
OK410200020040_00	Caney Creek, Middle	4.25	R	3	2014	X	X				X	X		X						
OK410200030010_00	**Rock Creek**	**12.35**	**R**	**5a**	**2016**	I	F	**N**				X		**N**		X				
OK410200030020_00	Cane Creek	4.69	R	3	2014	X	X				X	X		X						
OK410200030030_00	Twomile Creek	4.33	R	3	2014	X	X				X	X		X						
OK410200030040_00	Slate Creek	2.76	R	3	2014	X	X				X	X		X						
OK410200030050_00	Prairie Branch	2.27	R	3	2014	X	X				X	X		X						
OK410200030060_00	Pero Creek	7.10	R	3	2014	X	X				X	X		X						
OK410200030070_00	Little Rock Creek	4.16	R	3	2014	X	X				X	X		X						
OK410200030080_00	Rock Creek, Middle	4.29	R	3	2014	X	X				X	X		X						
OK410200030090_00	Rock Creek, West Fork	2.89	R	3	2014	X	X				X	X		X						
OK410200030100_00	Robinson Creek	8.91	R	3	2014	X	X				X	X		X						
OK410200030110_00	Ash Creek	5.36	R	3	2014	X	X				X	X		X						
OK410200030120_00	Bull Creek	2.90	R	3	2014	X	X				X	X		X						
OK410200030130_00	Cedar Branch	1.27	R	3	2014	X	X				X	X		X						
OK410200030140_00	Rough Creek	5.90	R	3	2014	X	X				X	X		X						
OK410200030150_00	Kings Branch	2.35	R	3	2014	X	X				X	X		X						
OK410210010010_00	Little River	14.41	R	3	2014	X	X	X				X		X		X		✓		
OK410210010030_00	Sand Creek	3.85	R	3	2014	X	X				X	X		X						

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OK410210010040_00	Wheelock Creek	3.46	R	3	2014	X	X				X	X		X						
OK410210010050_00	Martin Creek	3.99	R	3	2014	X	X				X	X		X						
OK410210010060_00	Horse Head Creek	8.85	R	2	2014	I	I				F	X		X		X				
OK410210010065_00	Horse Head Creek, Unnamed Tributary of	1.33	R	3	2014	X	X		X			X			X					
OK410210010070_00	**Cypress Creek**	**20.73**	**R**	**5a**	**2016**	I	F	**N**				X		F		X		✓		
OK410210010080_00	Rock Creek	6.42	R	3	2014	X	X				X	X		X						
OK410210010090_00	Wolf Creek	4.21	R	3	2014	X	X				X	X		X						
OK410210010100_00	Cypress Creek, North Fork	4.50	R	3	2014	X	X	X				X		X		X		✓		
OK410210010110_00	White Oak Creek	6.43	R	3	2014	I	I				I	X		X						
OK410210010120_00	Sand Springs Branch	3.43	R	3	2014	X	X				X	X		X						
OK410210010130_00	Little White Oak Creek	2.79	R	3	2014	X	X				X	X		X						
OK410210010140_00	Stevens Creek	5.25	R	3	2014	X	X				X	X		X						
OK410210020010_00	Little River	3.90	R	3	2014	I	X	X				X		X		X		✓		
OK410210020020_00	**Pine Creek Lake**	**3,750**	**L**	**5a**	**2012**	F	F				**N**	**N**		F		I		✓		
OK410210020030_00	Pine Creek	6.01	R	3	2014	X	X	X				X		X		X		✓		
OK410210020040_00	Big Branch	2.44	R	3	2014	X	X				X	X		X						
OK410210020050_00	Rock Creek	4.46	R	3	2014	X	X				X	X		X						
OK410210020070_00	Long Creek	6.07	R	3	2014	X	X				X	X		X						
OK410210020080_00	Wilson Creek	6.77	R	3	2014	X	X				X	X		X						
OK410210020090_00	Long Creek, North	3.28	R	3	2014	X	X				X	X		X						
OK410210020100_00	Long Creek, South	2.60	R	3	2014	X	X				X	X		X						
OK410210020110_00	Turkey Creek	11.77	R	3	2014	X	X				X	X		X						

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OK410210020120_00	Turkey Creek, North	4.69	R	3	2014	X	X				X	X		X						
OK410210020130_00	Little Turkey Creek	5.20	R	3	2014	X	X				X	X		X						
OK410210020140_00	**Little River**	**24.68**	**R**	**5a**	**2016**	F	F	**N**				**N**		F		F		✓		
OK410210020140_10	Little River	2.57	R	3	2014	X	X	X				X		X		X		✓		
OK410210020150_00	Terrapin Creek	13.47	R	2	2016	F	F	F				X		F		X		✓		
OK410210020160_00	Deer Creek	4.73	R	3	2014	X	X				X	X		X						
OK410210020170_00	Terrapin Creek, West	12.45	R	2	2016	X	X	F				X		X						
OK410210020180_00	Terrapin Creek, Middle	5.66	R	3	2014	X	X				X	X		X						
OK410210020190_00	Terrapin Creek, East	6.46	R	3	2014	X	X				X	X		X						
OK410210020200_00	Salt Creek	5.16	R	3	2014	X	X				X	X		X						
OK410210020210_00	Houston Creek	4.68	R	3	2014	X	X	X				X		X		X		✓		
OK410210020220_00	Rain Creek	4.33	R	3	2014	X	X				X	X		X						
OK410210020230_00	Can Creek	3.57	R	3	2014	X	X				X	X		X						
OK410210020240_00	Caney Creek	11.09	R	3	2014	I	I	X				X		X						
OK410210020250_00	Rock Pen Creek	5.27	R	3	2014	X	X				X	X		X						
OK410210020260_00	Holly Creek	7.23	R	3	2014	I	I				I	X		X						
OK410210020270_00	Holly Creek, South	6.38	R	3	2014	X	X				X	X		X						
OK410210020280_00	Devil's Backbone Creek	3.52	R	3	2014	X	X				X	X		X						
OK410210020290_00	Holly Creek, North	6.58	R	3	2014	X	X				X	X		X						
OK410210020300_00	**Cloudy Creek**	**25.63**	**R**	**5a**	**2016**	F	F	**N**				X		F		X		✓		
OK410210020310_00	Big Branch	2.24	R	3	2014	X	X				X	X		X						
OK410210020320_00	Brushy Creek	8.62	R	3	2014	X	X				X	X		X						

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OK410210020330_00	Bullpen Creek	3.24	R	3	2014	X	X				X	X		X						
OK410210020340_00	Brushy Creek, North	5.02	R	3	2014	X	X				X	X		X						
OK410210020350_00	Dog Creek	3.62	R	3	2014	X	X				X	X		X						
OK410210020360_00	Harris Creek	3.11	R	3	2014	X	X				X	X		X						
OK410210020370_00	Bear Canyon Creek	4.02	R	3	2014	X	X				X	X		X						
OK410210020380_00	Pickens Creek	11.21	R	3	2014	I	I				I	X		X						
OK410210020390_00	Buzzard Creek	4.14	R	3	2014	X	X				X	X		X						
OK410210020400_00	Pickens Creek, North	4.83	R	3	2014	X	X				X	X		X						
OK410210020410_00	Harris Creek	4.56	R	3	2014	X	X				X	X		X						
OK410210020420_00	Harris Creek, North	3.88	R	3	2014	X	X				X	X		X						
OK410210020430_00	Jack Creek	7.68	R	3	2014	X	X	X				X		X		X		✓		
OK410210020450_00	Watson Creek	6.03	R	3	2014	I	I				I	X		X						
OK410210020460_00	Watson Creek, North	4.55	R	2	2016	X	X	F				X		X						
OK410210020470_00	Watson Creek, South	4.03	R	3	2014	X	X				X	X		X						
OK410210030010_00	Little River	39.68	R	3	2014	X	X	X				X		X		X		✓		
OK410210030020_00	**Little River, Black Fork**	**31.00**	**R**	**5a**	**2016**	I	F	**N**				X		**N**		X		✓		
OK410210030030_00	Cripple Creek	10.91	R	3	2014	X	X				X	X		X						
OK410210030040_00	Buzzard Creek	5.97	R	3	2014	X	X				X	X		X						
OK410210030050_00	Hardy Creek	4.42	R	3	2014	X	X				X	X		X						
OK410210030060_00	Long Creek	7.58	R	3	2014	X	X				X	X		X						
OK410210030070_00	Garland Creek	6.81	R	3	2014		X				X	X		X						
OK410210030080_00	Davis Branch	4.60	R	3	2014	X	X				X	X		X						

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OK410210030090_00	Paley Creek	4.74	R	3	2014	X	X				X	X		X						
OK410210030100_00	Le Flore Creek	3.83	R	3	2014	X	X				X	X		X						
OK410210030110_00	Polecat Creek	2.14	R	3	2014	X	X				X	X		X						
OK410210030120_00	Wildhorse Creek	8.21	R	3	2014	X	X				X	X		X						
OK410210030130_00	Uphill Creek	5.01	R	3	2014	X	X				X	X		X						
OK410210030140_00	Cedar Creek	2.86	R	3	2014	X	X				X	X		X						
OK410210030150_00	Honobia Creek	22.20	R	3	2014	I	I				I	X		X						
OK410210030160_00	Crane Hollow Creek	3.55	R	3	2014	X	X				X	X		X						
OK410210030170_00	Dutchman Ridge Creek	2.79	R	3	2014	X	X				X	X		X						
OK410210030180_00	Deadman Hollow Creek	4.52	R	3	2014	X	X				X	X		X						
OK410210030190_00	Brushy Creek	4.57	R	3	2014	X	X				X	X		X						
OK410210030200_00	Holly Creek	4.06	R	3	2014	X	X				X	X		X						
OK410210030220_00	Cowhead Divide Creek	2.53	R	3	2014	X	X				X	X		X						
OK410210030230_00	Little Rock Creek	6.69	R	3	2014	X	X				X	X		X						
OK410210030240_00	Fisher Branch	3.08	R	3	2014	X	X				X	X		X						
OK410210030260_00	Cedar Creek	2.77	R	3	2014	X	X				X	X		X						
OK410210030270_00	Rock Creek	5.28	R	3	2014	X	X				X	X		X						
OK410210040010_00	Little River, Mountain Fork	8.73	R	3	2014	X	X	X				X		X		X		✓		
OK410210040010_10	**Little River, Mountain Fork**	**1.14**	**R**	**5a**	**2012**	F	F			**N**		F		F		F		✓		
OK410210040020_00	Luksuklo Creek	14.70	R	3	2014	X	X				X	X		X						
OK410210040030_00	Lick Creek	8.98	R	3	2014	X	X				X	X		X						
OK410210040040_00	Lick Creek Branch	1.66	R	3	2014	X	X				X	X		X						

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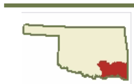

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OK410210040050_00	Little River, Mountain Fork	9.08	R	3	2014	X	X			X		X		X		X		✓		
OK410210040060_00	Cooper Creek	6.16	R	3	2014	X	X				X	X		X						
OK410210040070_00	Rough Branch	2.33	R	3	2014	X	X				X	X		X						
OK410210040080_00	Horsepen Creek	1.80	R	3	2014	X	X				X	X		X						
OK410210040090_00	Slate Branch	2.77	R	3	2014	X	X				X	X		X						
OK410210040100_00	Carnasaw Creek	1.46	R	3	2014	X	X				X	X		X						
OK410210040110_00	Beaver Creek	2.27	R	3	2014	X	X				X	X		X						
OK410210040120_00	Bee Branch	1.83	R	3	2014	X	X				X	X		X						
OK410210050010_00	Little River, Mountain Fork	2.21	R	3	2014	X	X			X		X		X		X		✓		
OK410210050020_00	**Broken Bow Lake**	**14,200**	**L**	**5a**	**2012**	F	F				**N**	**N**		F		I				✓
OK410210050040_00	Biggam Creek	2.05	R	3	2014	X	X				X	X		X						
OK410210050060_00	Walford Creek	2.26	R	3	2014	X	X				X	X		X						
OK410210050090_00	Cedar Creek	3.09	R	3	2014	X	X				X	X		X						
OK410210050100_00	Lower Cedar Creek	2.53	R	3	2014	X	X				X	X		X						
OK410210050110_00	Cedar Creek, North	1.83	R	3	2014	X	X				X	X		X						
OK410210050120_00	Fivemile Hollow Creek	2.75	R	3	2014	X	X				X	X		X						
OK410210050130_00	Nancy Branch	2.07	R	3	2014	X	X	X				X		X						
OK410210050140_00	Egypt Creek	3.41	R	3	2014	X	X	X				X		X		X				✓
OK410210050170_00	Bee Creek	3.12	R	3	2014	X	X				X	X		X						
OK410210050180_00	Bee Creek, North	3.38	R	3	2014	X	X				X	X		X						
OK410210050190_00	Otter Creek	7.06	R	3	2014	X	X	X				X		X		X				✓
OK410210050200_00	Otter Creek, East	3.24	R	3	2014	X	X				X	X		X						

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OK410210050210_00	Bear Creek	2.11	R	3	2014	X	X				X	X		X						
OK410210050220_00	Cane Creek	3.59	R	3	2014	X	X				X	X		X						
OK410210050240_00	Holly Creek, North	4.83	R	3	2014	X	X				X	X		X						
OK410210050250_00	Holly Creek, South	4.19	R	3	2014	X	X				X	X		X						
OK410210050270_00	Linson Creek, North	7.02	R	3	2014	X	X				X	X		X						
OK410210050280_00	Linson Creek, South	5.18	R	3	2014	X	X				X	X		X						
OK410210050290_00	Gar Creek	3.23	R	3	2014	X	X				X	X		X						
OK410210050300_00	Panther Branch	4.76	R	3	2014	X	X				X	X		X						
OK410210050310_00	Chee Creek	2.01	R	3	2014	X	X				X	X		X						
OK410210050320_00	Turkey Creek	6.38	R	3	2014	X	X				X	X		X						
OK410210050330_00	Hee Creek	2.58	R	3	2014	X	X				X	X		X						
OK410210050340_00	Buck Creek	3.87	R	3	2014	X	X				X	X		X						
OK410210050350_00	Hudson Creek	2.05	R	3	2014	X	X				X	X		X						
OK410210050360_00	Panther Creek	5.13	R	3	2014	X	X	X				X		X		X			✓	
OK410210060010_00	Little River, Mountain Fork	0.52	R	3	2014	X	X	X				X		X		X				✓
OK410210060010_10	**Little River, Mountain Fork**	**28.08**	**R**	**5a**	**2016**	I	F	**N**				F		F		F			✓	
OK410210060020_00	**Buffalo Creek**	**23.38**	**R**	**5a**	**2016**	F	F	**N**				X		F		X				✓
OK410210060030_00	Big Hudson Creek	6.28	R	3	2014	I	I	X				X		X						
OK410210060040_00	Little Hudson Creek	3.18	R	3	2014	X	X				X	X		X						
OK410210060050_00	Little Dry Creek	7.11	R	3	2014	X	X				X	X		X						
OK410210060060_00	Mine Creek	3.21	R	3	2014	I	I	X				X		X						
OK410210060080_00	Rock Creek	3.70	R	3	2014	X	X				X	X		X						

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OK410210060100_00	Boktuklo Creek	15.33	R	2	2016	X	X	F				X		X		X			✓	
OK410210060110_00	Blue Creek	3.05	R	3	2014	X	X	X				X		X		X			✓	
OK410210060120_00	Boktuklo Creek, East	9.90	R	3	2014	I	I				I	X		X						
OK410210060130_00	Ward Creek	1.71	R	3	2014	X	X				X	X		X						
OK410210060140_00	Ramos Creek	4.11	R	3	2014	X	X				X	X		X						
OK410210060150_00	Roosevelt Creek	6.62	R	3	2014	X	X				X	X		X						
OK410210060160_00	**Big Eagle Creek**	**20.50**	**R**	**5a**	**2016**	F	F	**N**				X		F		X			✓	
OK410210060170_00	Little Eagle Creek	10.11	R	3	2014	I	I	I				X		X		X			✓	
OK410210060190_00	Potts Creek	4.51	R	3	2014	X	X				X	X		X						
OK410210060210_00	Cucumber Creek	10.72	R	2	2016	I	I	F				X		X		X			✓	
OK410210060220_00	Saddle Rock Creek	4.65	R	3	2014	X	X				X	X		X						
OK410210060240_00	Rock Creek	9.98	R	2	2016	I	I				F	X		X						
OK410210060250_00	Hurricane Creek	9.64	R	3	2014	X	X				X	X		X						
OK410210060270_00	Dry Creek	10.24	R	3	2014	I	I				I	X		X						
OK410210060280_00	Mudlick Creek	3.48	R	3	2014	X	X				X	X		X						
OK410210060290_00	Panther Creek	2.17	R	3	2014	X	X				X	X		X						
OK410210060310_00	Sixmile Creek	3.89	R	3	2014	I	I				I	X		X						
OK410210060320_00	**Beech Creek**	**12.71**	**R**	**5a**	**2016**	F	F	**N**				X		F		X			✓	
OK410210060330_00	Turkey Snout Creek	2.62	R	3	2014	X	X	X				X		X		X			✓	
OK410210060340_00	Caney Creek	2.63	R	3	2014	X	X				X	X		X						
OK410210060350_00	**Cow Creek**	**11.03**	**R**	**5a**	**2016**	F	F	**N**				X		F		X			✓	
OK410210060360_00	Murry Creek	3.85	R	3	2014	X	X				X	X		X						

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OK410210060370_00	Little Cow Creek	4.26	R	3	2014	X	X	X				X		X		X			✓	
OK410210060380_00	Little River, Mountain Fork	3.89	R	3	2014	X	X	X				X		X		X			✓	
OK410210060390_00	Mackey Creek	0.57	R	3	2014	X	X				X	X		X						
OK410210060400_00	Horsepen Creek	3.60	R	3	2014	X	X				X	X		X						
OK410210060410_00	Dark Hollow Creek	2.45	R	3	2014	X	X				X	X		X						
OK410210060420_00	Richmond Creek	1.93	R	3	2014	X	X				X	X		X						
OK410210060430_00	Brushy Creek	1.92	R	3	2014	X	X				X	X		X						
OK410210060440_00	Wilcox Branch	0.87	R	3	2014	X	X	X				X		X		X			✓	
OK410210060450_00	Big Eagle Creek, Unnamed Trib of	2.36	R	3	2014	X	X	X				X		X		X			✓	
OK410210070010_00	**Lukfata Creek**	**17.80**	**R**	**5a**	**2016**	F	F	**N**				X		**N**		X		✓		
OK410210070020_00	Stephens Branch	4.50	R	3	2014	X	X				X	X		X						
OK410210070030_00	Briar Branch	2.64	R	3	2014	X	X				X	X		X						
OK410210070040_00	Lufkata Creek, West Fork	3.74	R	3	2014	X	X				X	X		X						
OK410210070050_00	Lufkata Creek, East Fork	3.17	R	3	2014	X	X				X	X		X						
OK410210070060_00	Lufkata Creek, Middle Fork	3.13	R	3	2014	X	X				X	X		X						
OK410210080010_00	**Glover River**	**33.95**	**R**	**5a**	**2016**	F	F	**N**				F		**N**		F		✓		
OK410210080020_00	Mitchell Creek	4.04	R	3	2014	X	X				X	X		X						
OK410210080030_00	Harkin Franklin Creek	2.73	R	3	2014	X	X				X	X		X						
OK410210080040_00	Benningfield Creek	4.06	R	3	2014	X	X				X	X		X						
OK410210080050_00	Fifteen Creek	2.57	R	3	2014	X	X				X	X		X						
OK410210080060_00	Gibbs Creek	3.79	R	3	2014	X	X				X	X		X						
OK410210080070_00	Colbert Creek	5.01	R	2	2016	X	X				F	X		X						

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OK410210080080_00	Lost Springs Creek	3.82	R	3	2014	X	X				X	X		X						
OK410210080090_00	Tidwell Creek	3.75	R	3	2014	X	X				X	X		X						
OK410210080100_00	Caney Creek	2.18	R	3	2014	X	X				X	X		X						
OK410210080110_00	Lebow Hollow Creek	2.15	R	3	2014	X	X				X	X		X						
OK410210080120_00	Cedar Creek	11.32	R	2	2016	I	I	F				X		X		X		✓		
OK410210080130_00	Cedar Creek, North	3.07	R	3	2014	X	X				X	X		X						
OK410210080140_00	Cedar Creek, South	3.51	R	3	2014	X	X				X	X		X						
OK410210080150_00	Brigham Young Springs Creek	2.02	R	3	2014	X	X				X	X		X						
OK410210080160_00	Shell Rock Creek	4.80	R	3	2014	X	X				X	X		X						
OK410210080170_00	Wolf Hollow Creek	3.01	R	3	2014	X	X				X	X		X						
OK410210080180_00	Whiskey Branch	1.85	R	3	2014	X	X				X	X		X						
OK410210080190_00	Shorty Cox Hollow Creek	1.86	R	3	2014	X	X				X	X		X						
OK410210080200_00	Burks Hollow Creek	2.15	R	3	2014	X	X				X	X		X						
OK410210080210_00	Carter Creek	11.34	R	3	2014	X	X	X				X		X		X		✓		
OK410210080220_00	Carter Creek, North	7.88	R	3	2014	X	X				X	X		X						
OK410210080230_00	Carter Creek, Middle	5.97	R	3	2014	X	X				X	X		X						
OK410210080240_00	Mud Creek	1.92	R	3	2014	X	X				X	X		X						
OK410210080250_00	Carter Creek, South	2.08	R	3	2014	X	X				X	X		X						
OK410210080260_00	Beeman Creek	3.83	R	3	2014	X	X				X	X		X						
OK410210080270_00	Pine Creek	5.77	R	3	2014	X	X	X				X		X		X		✓		
OK410210080280_00	Canyon Creek	5.86	R	3	2014	X	X				X	X		X						
OK410210080290_00	Little Pine Creek	6.64	R	3	2014	X	X	X				X		X		X		✓		

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OK410210090010_00	**Glover River, East Fork**	**21.60**	**R**	**5a**	**2016**	F	F	**N**				F		F		F		✓		
OK410210090020_00	Willis Creek	6.69	R	3	2014	X	X				X	X		X						
OK410210090030_00	Coon Creek	12.32	R	2	2016	X	X				F	X		X						
OK410210090050_00	Carpenter Branch	4.66	R	3	2014	X	X				X	X		X						
OK410210090070_00	Glover River, West Fork	20.69	R	2	2016	F	F	F				X		X		X		✓		
OK410210090080_00	Rocky Creek	6.09	R	3	2014	X	X				X	X		X						
OK410210090090_00	Winship Branch	3.73	R	3	2014	X	X				X	X		X						
OK410210090100_00	Silver Creek	12.04	R	3	2014	I	I				I	X		X						
OK410210090110_00	Little Silver Creek	8.98	R	3	2014	X	X				X	X		X						
OK410210090120_00	Little Silver Creek, West	5.65	R	3	2014	X	X				X	X		X						
OK410210090130_00	Little Silver Creek, East	3.26	R	3	2014	X	X				X	X		X						
OK410210090140_00	Edwards Creek	3.32	R	3	2014	X	X				X	X		X						
OK410210090150_00	Watson Branch	1.54	R	3	2014	X	X				X	X		X						
OK410210090160_00	Bluff Creek	3.69	R	2	2016	I	X	F				X		X		X		✓		
OK410210090170_00	Blackwell Branch	2.50	R	3	2014	X	X				X	X		X						
OK410210090180_00	East Creek	7.03	R	3	2014	I	I				I	X		X						
OK410210090190_00	Dog Creek	4.12	R	3	2014	X	X				X	X		X						
OK410300010010_00	**Kiamichi River**	**18.11**	**R**	**5a**	**2016**	F	F				**N**	**N**		F		**N**				
OK410300010020_00	Gates Creek	4.85	R	**4a**	2016	I	F	**N**				X		I		X				
OK410300010030_00	Gates Creek	12.83	R	3	2014	X	X	X				X		X		X				
OK410300010040_00	Raymond Gary Lake	263	L	2	2014	F	F				I	I		F						
OK410300010050_00	Cedar Creek	2.60	R	3	2014	X	X				X	X		X						

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OK410300010060_00	Negro Creek	2.50	R	3	2014	X	X		X			X			X					
OK410300010070_00	Cold Springs Branch	4.22	R	3	2014	X	X				X	X		X						
OK410300010080_00	Bull Creek	7.46	R	3	2014	X	X				X	X		X						
OK410300010090_00	Tuttle Creek	4.84	R	3	2014	X	X				X	X		X						
OK410300010100_00	**Bird Creek**	**8.05**	**R**	**5a**	**2016**	F	F				**N**	X		F		I				
OK410300010110_00	Sandy Branch	2.77	R	3	2014	X	X				X	X		X						
OK410300010120_00	Rock Creek	4.65	R	3	2014	X	X				X	X		X						
OK410300010130_00	Rock Creek	4.57	R	3	2014	X	X				X	X		X						
OK410300020010_10	**Kiamichi River**	**15.53**	**R**	**5c**	**2016**	X	X				**N**	X		X		X				
OK410300020020_00	**Hugo Lake**	**13,250**	**L**	**5a**	**2016**	F	F				**N**	**N**		F		I				
OK410300020030_00	Cedar Creek	6.87	R	3	2014	X	X				X	X		X						
OK410300020040_00	Salt Creek	0.82	R	3	2014	X	X				X	X		X						
OK410300020050_00	Wire Branch	4.59	R	3	2014	X	X				X	X		X						
OK410300020060_00	Kiamichi River, North Fork	11.00	R	3	2014	I	I				I	X		X		X				
OK410300020070_00	Miller Creek	3.93	R	3	2014	X	X				X	X		X						
OK410300020080_00	Long Creek	5.89	R	3	2014	X	X				X	X		X		X				
OK410300020100_00	Holly Creek, North Fork	3.42	R	3	2014	X	X				X	X		X						
OK410300020110_00	Holly Creek, South Fork	3.39	R	3	2014	X	X				X	X		X						
OK410300020120_00	Schooler Lake	1	L	3	2016	X	X				X	X		X						
OK410300020130_00	Frazier Creek	15.63	R	3	2014	X	X	X				X		X		X				
OK410300020140_00	Spencer Creek	12.01	R	3	2014	X	X				X	X		X						
OK410300020150_00	Hampton Creek	2.53	R	3	2014	X	X				X	X		X						

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OK410300020160_00	Hog Creek	5.67	R	3	2014	X	X				X	X		X						
OK410300020170_00	Crooked Creek	4.74	R	3	2014	X	X				X	X		X						
OK410300020180_00	South Branch	5.42	R	3	2014	X	X				X	X		X						
OK410300020190_00	**Rock Creek**	**13.96**	**R**	**5a**	**2016**	I	F	**N**				X		**N**						
OK410300020200_00	Possum Creek	6.45	R	3	2014	X	X				X	X		X						
OK410300020210_00	Fish Creek	6.19	R	3	2014	X	X				X	X		X						
OK410300020220_00	**Ozzie Cobb Lake**	**116**	**L**	**5a**	**2016**	I	F				**N**	I		F						
OK410300020230_00	One Creek	10.58	R	3	2014	X	X				X	X		X						
OK410300020240_00	Holly Branch	2.60	R	3	2014	X	X				X	X		X						
OK410300020250_00	Negro Creek	6.27	R	3	2014	X	X				X	X		X						
OK410300020260_00	Hagerman Creek	3.19	R	3	2014	X	X				X	X		X						
OK410300020270_00	Mill Creek	5.73	R	3	2014	X	X				X	X		X						
OK410300020280_00	Big Waterhole Creek	8.20	R	3	2014	X	X				X	X		X						
OK410300020300_00	Little Waterhole Creek	3.11	R	3	2014	X	X				X	X		X						
OK410300020310_00	Duck Creek	5.67	R	3	2014	X	X				X	X		X						
OK410300030010_00	Kiamichi River	2.97	R	3	2014	X	X				X	X		X		X				
OK410300030010_10	**Kiamichi River**	**10.30**	**R**	**5a**	**2016**	F	F				**N**	**N**		F		F				
OK410300030010_20	Kiamichi River	11.36	R	3	2014	X	X				X	X		X		X				
OK410300030020_00	Cedar Creek	7.26	R	2	2016	X	X	F				X		X		X		✓		
OK410300030020_10	**Cedar Creek**	**23.36**	**R**	**5a**	**2016**	F	F	**N**				X		**N**		X		✓		
OK410300030030_00	Briar Branch	2.32	R	3	2014	X	X				X	X		X						
OK410300030040_00	Bitter Creek	7.43	R	3	2014	X	X				X	X		X						

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OK410300030050_00	Chickasaw Creek	6.37	R	3	2014	X	X				X	X		X						
OK410300030060_00	**One Creek**	**17.42**	**R**	**5a**	**2016**	I	F				**N**	X		**N**						
OK410300030070_00	Medicine Springs Creek	2.63	R	3	2014	X	X				X	X		X						
OK410300030080_00	One Creek, North	8.95	R	3	2014	X	X				X	X		X						
OK410300030090_00	One Creek, Middle	7.88	R	3	2014	X	X				X	X		X						
OK410300030100_00	Dog Creek	4.83	R	3	2014	X	X				X	X		X						
OK410300030110_00	West Fork Creek	11.80	R	3	2014	X	X				X	X		X						
OK410300030120_00	Turkey Creek	4.99	R	3	2014	X	X				X	X		X						
OK410300030130_00	Stovepipe Creek	2.95	R	3	2014	X	X				X	X		X						
OK410300030140_00	Possum Creek	4.98	R	3	2014	X	X				X	X		X						
OK410300030150_00	Snow Creek	3.14	R	3	2014	X	X				X	X		X						
OK410300030160_00	Caney Creek	13.70	R	3	2014	X	X				X	X		X						
OK410300030170_00	Cedar Creek, North	5.39	R	3	2014	X	X				X	X		X						
OK410300030180_00	Little Cedar Creek	7.06	R	3	2014	X	X				X	X		X						
OK410300030190_00	Little Cedar Creek Lake	1	L	3	2016	X	X				X	X		X						
OK410300030200_00	Beaver Creek	12.02	R	2	2016	X	X				F	X		X		X				
OK410300030210_00	**Dumpling Creek**	**13.73**	**R**	**5c**	**2014**	F	F				**N**	X		I						
OK410300030220_00	Charlie Creek	3.93	R	3	2014	X	X				X	X		X						
OK410300030230_00	Coffee Creek	3.73	R	3	2014	X	X				X	X		X						
OK410300030240_00	Judge Cox Branch	3.81	R	3	2014	X	X				X	X		X						
OK410300030250_00	Panther Creek	4.81	R	3	2014	X	X				X	X		X						
OK410300030260_00	Caroline Creek	3.37	R	3	2014	X	X				X	X		X						

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OK410300030270_00	**Tenmile Creek**	**35.75**	**R**	**5a**	**2016**	I	F				**N**	X		F		I				
OK410300030280_00	Rock Creek	4.13	R	3	2014	X	X				X	X		X						
OK410300030290_00	Stink Branch	2.49	R	3	2014	X	X				X	X		X						
OK410300030300_00	Cole Creek	5.57	R	3	2014	X	X				X	X		X						
OK410300030310_00	Hampton Creek	5.60	R	3	2014	X	X				X	X		X						
OK410300030320_00	Davenport Creek	7.84	R	3	2014	X	X				X	X		X						
OK410300030330_00	Little Davenport Creek	4.49	R	3	2014	X	X				X	X		X						
OK410300030340_00	Yerby Branch	2.24	R	3	2014	X	X				X	X		X						
OK410300030350_00	Rough Hollow Creek	2.38	R	3	2014	X	X				X	X		X						
OK410300030360_00	Pine Creek	3.85	R	3	2014	X	X				X	X		X						
OK410300030370_00	Clear Creek	13.04	R	3	2014	X	X				X	X		X						
OK410300030380_00	Little Tenmile Creek	5.78	R	3	2014	X	X				X	X		X						
OK410300030400_00	Cobb Lake	1	L	3	2016	X	X				X	X		X						
OK410300030410_00	Frederick Creek	2.80	R	3	2014	X	X				X	X		X						
OK410300030420_00	**Buck Creek**	**35.60**	**R**	**5a**	**2016**	I	F				F	X		**N**		X				
OK410300030430_00	Whiskey Creek	3.62	R	3	2014	X	X				X	X		X						
OK410300030440_00	Clay Branch	2.21	R	3	2014	X	X				X	X		X						
OK410300030450_00	Wildhorse Creek	6.77	R	3	2014	X	X				X	X		X						
OK410300030460_00	Little Wildhorse Creek	3.14	R	3	2014	X	X				X	X		X						
OK410300030470_00	Kimbrough Creek	5.18	R	3	2014	X	X				X	X		X						
OK410300030480_00	Shorty Creek	6.25	R	3	2014	X	X				X	X		X						
OK410300030490_00	Fobb Creek	11.58	R	3	2014	X	X				X	X		X						

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OK410300030500_00	Cole Creek	7.59	R	3	2014	X	X				X	X		X						
OK410300030510_00	Happy Hollow Creek	3.89	R	3	2014	X	X				X	X		X		X				
OK410300030520_00	Grassy Creek	4.19	R	3	2014	X	X				X	X		X		X				
OK410300030530_00	Robinson Creek	4.99	R	3	2014	X	X				X	X		X						
OK410300030540_00	Grassy Creek	3.78	R	3	2014	X	X				X	X		X						
OK410300030550_00	Lily Pond Creek	3.20	R	3	2014	X	X				X	X		X						
OK410300030560_00	Mud Creek	2.66	R	3	2014	X	X				X	X		X						
OK410300030570_00	Kiamichi River	24.39	R	3	2014	X	X				X	X		X		X				
OK410300030570_10	Kiamichi River	1.96	R	3	2014	X	X				X	X		X		X				
OK410300030580_00	**Pine Creek**	**23.49**	**R**	**5c**	**2012**	F	F				**N**	X		I						
OK410300030590_00	Wildcat Creek	8.31	R	3	2014	X	X				X	X		X						
OK410300030600_00	Marble Creek	8.22	R	3	2014	X	X				X	X		X						
OK410300030610_00	Caney Creek	15.66	R	3	2014	X	X				X	X		X						
OK410300030620_00	Spring Branch	1.16	R	3	2014	X	X				X	X		X						
OK410300030630_00	Silver Creek	4.74	R	3	2014	X	X				X	X		X						
OK410300030640_00	John's Creek	2.14	R	3	2014	X	X				X	X		X						
OK410300030650_00	Fobb Creek	3.11	R	3	2014	X	X				X	X		X						
OK410300030660_00	Peveyhouse Creek	3.11	R	3	2014	X	X				X	X		X						
OK410300030670_00	Bull Creek	5.18	R	3	2014	X	X				X	X		X						
OK410300030680_00	Long Bell Creek	5.28	R	3	2014	X	X				X	X		X						
OK410300030690_00	Hackett Creek	4.96	R	3	2014	X	X				X	X		X						
OK410300030700_00	Beulah Creek	4.24	R	3	2014	X	X				X	X		X						

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OK410300030710_00	Crumb Creek	9.60	R	3	2014	X	X				X	X		X						
OK410300030720_00	Stanley Creek, South	1.56	R	3	2014	X	X				X	X		X						
OK410300030730_00	Little Cedar Creek	5.25	R	3	2014	X	X				X	X		X						
OK410300030740_00	Clayton Creek, West	1.12	R	3	2014	X	X				X	X		X						
OK410300030750_00	Peterson Creek	6.27	R	3	2014	X	X				X	X		X						
OK410300030760_00	Peal Creek	7.49	R	3	2014	X	X				X	X		X		X				✓
OK410300030770_00	Hurd Creek	7.39	R	3	2014	X	X				X	X		X						
OK410300030780_00	Clayton Lake	95	L	2	2016	F	I				I	I		I		X				✓
OK410310010010_00	**Kiamichi River**	**26.35**	**R**	**5b**	**2016**	F	F				**N**	F		F		F				
OK410310010020_00	Jackfork Creek	2.79	R	2	2014	I	X				I	X		X		F				✓
OK410310010030_00	Terryland Creek	2.31	R	3	2014	X	X				X	X		X						
OK410310010040_00	Nanih Waiya Creek	2.03	R	3	2014	I	I				I	I		X		I				
OK410310010050_00	Nanih Waiya Lake	131	L	2	2016	F	F				F	I		F						
OK410310010060_00	Old Choctaw Creek	1.54	R	3	2014	X	X				X	X		X						
OK410310010070_00	Dry Creek	6.45	R	2	2016	F	I				F	X		I						
OK410310010090_00	Walnut Creek	3.44	R	3	2014	X	X				X	X		X						
OK410310010100_00	Walnut Creek, North Fork	5.82	R	3	2014	X	X				X	X		X						
OK410310010110_00	Walnut Creek, South Fork	3.42	R	3	2014	X	X				X	X		X						
OK410310010140_00	Albion Creek	6.11	R	3	2014	X	X				X	X		X						
OK410310010150_00	Clear Creek	2.56	R	3	2014	X	X				X	X		X						
OK410310010170_00	Rock Creek	8.19	R	3	2014	X	X				X	X		X		X				
OK410310010180_00	Prairie Creek	5.85	R	3	2014	X	X				X	X		X						

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OK410310010190_00	Jackson Creek	7.96	R	3	2014	X	X				X	X		X						
OK410310010200_00	Rock Creek, East Fork	7.07	R	3	2014	X	X				X	X		X						
OK410310010210_00	Rock Creek	4.67	R	3	2014	I	I				I	X		X		I				✓
OK410310010220_00	**Carl Albert Lake**	**183**	**L**	**5a**	**2012**	F	F				**N**	I		F		I				✓
OK410310010230_00	**Talihina Lake**	**25**	**L**	**5a**	**2016**	X	I				**N**	X		X		X				✓
OK410310020010_00	Kiamichi River	21.24	R	3	2014	X	X				X	X		X		X				
OK410310020010_10	**Kiamichi River**	**25.18**	**R**	**5a**	**2016**	F	F				**N**	F		F		F				
OK410310020020_00	Tombstone Creek	11.18	R	3	2014	X	X				X	X		X						
OK410310020030_00	Frazier Creek	11.06	R	3	2014	X	X				X	X		X						
OK410310020040_00	Bohannon Creek	9.39	R	3	2014	X	X				X	X		X						
OK410310020050_00	Woods Creek	6.03	R	3	2016	X	X				I	X		X						
OK410310020060_00	Sycamore Creek	9.12	R	3	2014	X	X				X	X		X						
OK410310020070_00	**Billy Creek**	**8.91**	**R**	**5a**	**2016**	I	F				**N**	X		**N**						
OK410310020080_00	Billy Creek, East	4.55	R	3	2014	X	X				X	X		X						
OK410310020090_00	Little Cedar Creek	4.15	R	3	2014	X	X				X	X		X						
OK410310020100_00	**Big Cedar Creek**	**5.83**	**R**	**5a**	**2016**	F	F				**N**	X		**N**						
OK410310020110_00	Pigeon Creek	3.48	R	3	2014	X	X	X				X		X		X				
OK410310030020_00	**Sardis Lake**	**13,610**	**L**	**5a**	**2016**	F	F				**N**	**N**		F		I				✓
OK410310030030_00	Buffalo Creek	10.72	R	3	2014	X	X				X	X		X		X				✓
OK410310030040_00	Cedar Creek	5.40	R	3	2014	X	X				X	X		X						
OK410310030050_00	Little Buffalo Creek	6.88	R	2	2016	X	X				F	X		X						
OK410310030060_00	Anderson Creek	6.37	R	3	2014	X	X				X	X		X						

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OK410310030070_00	Anderson Creek, West Fork	8.90	R	3	2014	X	X				X	X		X						
OK410310030080_00	Jackfork Creek, North Fork	20.99	R	3	2014	X	X				X	X		X						
OK410310030090_00	**Bolen Creek**	**8.54**	**R**	**5a**	**2014**	F	**N**				**N**	X		I						
OK410310030100_00	Jackfork Creek	12.72	R	3	2014	X	X				X	X		X		X				✓
OK410310030110_00	Maxwell Creek	6.67	R	3	2014	X	X				X	X		X						
OK410310030120_00	Clear Creek	11.00	R	3	2014	X	X				X	X		X						
OK410400010010_00	Red River	12.92	R	3	2014	X	X				X	X		X		X				
OK410400010010_10	Red River	12.81	R	3	2014	X	X				X	X		X		X				
OK410400010010_20	Red River	4.86	R	2	2016	F	F				F	F		F		I				
OK410400010010_30	Red River	8.17	R	3	2014	X	X				X	X		X		X				
OK410400010010_40	Red River	13.62	R	3	2014	X	X				X	X		X		X				
OK410400010010_50	Red River	2.23	R	3	2014	X	X				X	X		X		X				
OK410400010010_60	Red River	6.51	R	3	2014	X	X				X	X		X		X				
OK410400010010_70	Red River	6.63	R	3	2014	X	X				X	X		X		X				
OK410400010020_00	Goodwater Creek	8.04	R	3	2014	X	X				X	X		X						
OK410400010030_00	Carney Creek	10.46	R	3	2014	X	X				X	X		X						
OK410400010040_00	**Horse Creek**	**7.76**	**R**	**5a**	**2016**	I	F				F	X		**N**		X				
OK410400010040_10	Horse Creek	6.90	R	3	2014	X	X				X	X			X					
OK410400010045_00	Horse Creek, Unnamed Tributary of	2.53	R	3	2014	X	X		X			X			X					
OK410400010050_00	Owl Creek	8.50	R	3	2014	X	X				X	X		X						
OK410400010060_00	**Roebuck Lake**	**1**	**L**	**5a**	**2016**	I	I				**N**	I		F						
OK410400010070_00	**Muddy Boggy Creek**	**21.59**	**R**	**5a**	**2016**	F	F				**N**	**N**		**N**		I				

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OK410400010080_00	Hanubby Creek	12.33	R	3	2014	X	X				X	X		X						
OK410400010090_00	Red River, Unnamed Tributary of	2.80	R	3	2014	X	X		X			X			X					
OK410400010110_00	Crowder Creek	12.14	R	3	2014	X	X				X	X		X						
OK410400010120_00	Crooked Creek	8.04	R	3	2014	X	X				X	X		X						
OK410400010130_00	**Lick Creek**	**20.19**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		X				
OK410400010140_00	Rock Creek	7.78	R	3	2014	X	X				X	X		X						
OK410400010150_00	Pointer Creek	6.14	R	3	2014	X	X				X	X		X						
OK410400010160_00	Dry Pointer Creek	2.25	R	3	2014	X	X				X	X		X						
OK410400010170_00	Big Branch	3.89	R	3	2014	I	I				I	X		X						
OK410400010180_00	Beaverdam Creek	11.52	R	3	2014	I	I				I	X		X						
OK410400010190_00	Bee Creek	3.28	R	3	2014	X	X				X	X		X						
OK410400010200_00	Sugar Creek	7.92	R	3	2014	X	X				X	X		X						
OK410400010210_00	**Whitegrass Creek**	**29.71**	**R**	**5a**	**2014**	F	F				**N**	X		**N**		X				
OK410400010220_00	Dry Creek	3.92	R	3	2014	X	X				X	X		X						
OK410400010230_00	Little Dry Creek	3.54	R	3	2014	X	X				X	X		X						
OK410400010240_00	Carson Branch	4.72	R	3	2014	X	X				X	X		X						
OK410400010250_00	Frazier Creek	4.43	R	3	2014	X	X				X	X		X						
OK410400010260_00	Slash Creek	3.74	R	3	2014	X	X				X	X		X						
OK410400010270_00	Whitesand Creek	5.45	R	3	2014	X	X				X	X		X						
OK410400010280_00	Winters Creek	4.69	R	3	2014	X	X				X	X		X						
OK410400010290_00	Rabbit Creek	2.08	R	3	2014	X	X				X	X		X						
OK410400010300_00	Bokchito Creek	11.88	R	3	2016	X	X				X	X		X						

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OK410400010310_00	Crane Lake	1	L	3	2016	X	X				X	X		X						
OK410400020010_00	Clear Boggy Creek	33.42	R	2	2016	I	X				F	X		X		X				
OK410400020010_10	Clear Boggy Creek	8.20	R	3	2014	X	X				X	X		X		X				
OK410400020020_00	Mayhew Creek	9.72	R	3	2014	X	X				X	X		X						
OK410400020025_00	Boswell Creek!	2.96	R	3	2014	X			X			X			X					
OK410400020030_00	Ross Branch	3.81	R	3	2014	X	X				X	X		X						
OK410400020040_00	Newkirk Lake	1	L	3	2016	X	X				X	X		X						
OK410400020050_00	Rocky Branch	3.20	R	3	2014	X	X				X	X		X						
OK410400020060_00	Pecan Branch	4.40	R	3	2014	X	X				X	X		X						
OK410400020070_00	Cold Springs Creek	6.61	R	3	2014	X	X				X	X		X						
OK410400020080_00	Dobbins Lake	1	L	3	2016	X	X				X	X		X						
OK410400020090_00	Sandy Creek	5.70	R	3	2014	X	X				X	X		X						
OK410400020100_00	Shawnee Creek	7.58	R	3	2014	X	X				X	X		X						
OK410400020110_00	Delaware Creek	11.24	R	3	2014	X	X				X	X		X						
OK410400020120_00	Crooked Creek	2.39	R	3	2014	X	X				X	X		X						
OK410400020130_00	Harrington Creek	3.81	R	3	2014	X	X				X	X		X						
OK410400020140_00	Dancing Rabbit Creek	5.19	R	3	2014	X	X				X	X		X						
OK410400020150_00	Mossy Lake	1	L	3	2016	X	X				X	X		X						
OK410400020160_00	Bois d' Arc Creek	9.99	R	2	2016	X					F	X		X						
OK410400020170_00	Straight Creek	5.55	R	3	2014	X	X				X	X		X						
OK410400020180_00	Attaway Spring Creek	0.80	R	3	2014	X	X				X	X		X						
OK410400020190_00	Odell Spring Creek	0.32	R	3	2014	X	X				X	X		X						

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OK410400020200_00	**Caney Creek**	**11.67**	**R**	**5a**	**2016**	F	**N**				**N**	X		**N**						
OK410400020210_00	Caney Creek, West Branch	7.51	R	3	2014	X	X				X	X		X						
OK410400020220_00	Caney Creek, East Branch	1.96	R	3	2014	X	X				X	X		X						
OK410400020230_00	Grassy Lake	1	L	3	2016	X	X				X	X		X						
OK410400020240_00	Pine Creek	8.03	R	3	2014	X	X				X	X		X						
OK410400020250_00	Long Branch	7.18	R	3	2014	X	X				X	X		X						
OK410400020260_00	Cowpen Creek	12.55	R	3	2014	X	X				X	X		X						
OK410400020270_00	Little Cowpen Creek	3.80	R	3	2014	X	X				X	X		X						
OK410400020280_00	Twin Lake	1	L	3	2016	X	X				X	X		X						
OK410400020290_00	Sand Creek	9.48	R	3	2014	X	X				X	X		X						
OK410400020300_00	Fronterhouse Creek	8.88	R	3	2014	X	X				X	X		X						
OK410400030010_00	**Clear Boggy Creek**	**22.76**	**R**	**5a**	**2012**	F	F				**N**	**N**		F		I				
OK410400030020_00	Caney Creek	12.42	R	2	2014	I	F				F	X			F					
OK410400030030_00	Davis Creek	9.68	R	3	2014	X	X				X	X		X						
OK410400030040_00	Caddo Creek	2.22	R	3	2014	X	X				X	X		X						
OK410400030050_00	Cat Creek	3.85	R	3	2014	X	X				X	X		X						
OK410400030060_00	Buffalo Creek	3.25	R	3	2014	X	X				X	X		X						
OK410400030070_00	Big Branch	8.41	R	3	2014	X	X				X	X		X						
OK410400030080_00	Big Slough	3.32	R	3	2014	X	X				X	X		X						
OK410400030090_00	Lain Lake	1	L	3	2016	X	X				X	X		X						
OK410400030100_00	Salt Creek	6.45	R	3	2014	X	X				X	X		X						
OK410400030110_00	Rock Creek	5.75	R	3	2014	X	X				X	X		X						

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OK410400030120_00	**Rock Creek Lake**	**248**	**L**	**5a**	**2016**	F	F				**N**	I		F						
OK410400030130_00	Dry Boggy Creek	10.79	R	3	2014	X	X				X	X		X						
OK410400030140_00	Watson Creek	8.26	R	3	2014	X	X				X	X		X						
OK410400030150_00	Sandy Creek	7.87	R	3	2014	X	X				X	X		X						
OK410400030160_00	Sandy Creek	14.01	R	2	2016	I	I				F	X		X						
OK410400030170_00	Ream Lake	1	L	3	2016	X	X				X	X		X						
OK410400030180_00	Birch Creek	3.55	R	3	2014	X	X				X	X		X						
OK410400030190_00	Rock Creek	4.52	R	3	2014	X	X				X	X		X						
OK410400030200_00	Clear Boggy Creek (old channel)	6.85	R	3	2014	X	X				X	X		X						
OK410400030210_00	Coon Creek	4.67	R	3	2014	X	X				X	X		X						
OK410400030230_00	Clear Boggy Creek	10.74	R	2	2016	X	X				F	X		X		X				
OK410400030230_10	Clear Boggy Creek	16.72	R	3	2014	X	X				X	X		X		X				
OK410400030240_00	**Delaware Creek**	**29.01**	**R**	**5a**	**2016**	I	F				F	X		**N**		X				
OK410400030250_00	Clarita Creek	10.26	R	3	2014	X	X				X	X		X						
OK410400030260_00	Walnut Branch	12.14	R	3	2014	X	X				X	X		X						
OK410400030280_00	Sandy Creek	5.34	R	3	2014	X	X				X	X		X		X				
OK410400030290_00	Wapanucka Creek	1.77	R	3	2014	X	X		X			X			X					
OK410400030300_00	Wapanucka City Lake	1	L	3	2016	I	I				I	I		I						
OK410400030305_00	Wapanucka Creek, West	1.60	R	3	2014	X	X				X	X		X						
OK410400030310_00	Wapanucka Lake	1	L	3	2016	X	X				X	X		X						
OK410400030320_00	Wide Springs Branch	2.95	R	3	2014	X	X				X	X		X		X				
OK410400030330_00	Houghtubby Branch	4.22	R	3	2014	X	X				X	X		X						

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OK410400030340_00	Deadman Spring Creek	3.15	R	3	2014	X	X				X	X		X						
OK410400030350_00	Elm Creek	7.81	R	3	2014	X	X				X	X		X						
OK410400030360_00	Little Caney Creek	7.90	R	3	2014	X	X				X	X		X						
OK410400030370_00	**Leader Creek**	**29.58**	**R**	**5a**	**2016**	I	F				**N**	X		**N**						
OK410400030380_00	Owl Creek	7.86	R	3	2014	X	X				X	X		X						
OK410400030390_00	Peach Creek	6.32	R	3	2014	X	X				X	X		X						
OK410400030400_00	Tupelo Creek	2.05	R	3	2014	X	X				X	X		X						
OK410400030410_00	Turkey Creek	5.37	R	2	2016	X	X				F	X		X						
OK410400030420_00	Coon Creek	4.46	R	3	2014	X	X				X	X		X						
OK410400030430_00	**Sandy Creek**	**5.53**	**R**	**5c**	**2016**	X	X				**N**	X		X						
OK410400030440_00	Lula Creek, East	1.40	R	3	2014	X	X				X	X		X						
OK410400030450_00	Bois d' Arc Creek	3.16	R	3	2014	X	X				X	X		X						
OK410400030460_00	Bully Creek	6.34	R	3	2014	X	X				X	X		X						
OK410400030470_00	Lula Creek	2.12	R	3	2014	X	X				X	X		X						
OK410400030480_00	Leader Creek, West	4.34	R	3	2014	X	X				X	X		X						
OK410400030490_00	**Goose Creek**	**15.09**	**R**	**5a**	**2016**	F	F				**N**	X		**N**						
OK410400030510_00	Coffee Pot Spring Creek	4.43	R	3	2014	X	X				X	X		X						
OK410400030520_00	Coal Creek	16.29	R	3	2014	X	X				X	X		X						
OK410400030523_00	Diamond Creek	0.64	R	2	2014	I	F				I	X		X		I				
OK410400030530_00	Wildcat Springs Creek	0.37	R	3	2014	X	X				X	X		X						
OK410400030540_00	Rock Creek	10.60	R	3	2014	X	X				X	X		X						
OK410400030550_00	Coapont Lake	1	L	3	2016	X	X				X	X		X						

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OK410400040010_00	Clear Boggy Creek	30.64	R	2	2016	I	I				F	X		X		I				
OK410400040020_00	Buck Creek	13.16	R	3	2014	X	X				X	X		X						
OK410400040030_00	Owl Creek	5.20	R	3	2014	X	X				X	X		X						
OK410400040040_00	Salt Creek	4.53	R	3	2014	X	X				X	X		X						
OK410400040050_00	Buck Creek, East	5.42	R	3	2014	X	X				X	X		X						
OK410400040060_00	Buck Creek, West	6.58	R	3	2014	X	X				X	X		X						
OK410400040070_00	Sheep Creek	9.29	R	3	2014	I	I				I	X		X		I				
OK410400040080_00	Canyon Creek	5.95	R	3	2014	X	X				X	X		X						
OK410400040090_00	Mill Creek	9.59	R	2	2014	I	F				I	X		X		I				
OK410400040100_00	Walnut Creek	5.86	R	3	2014	X	X				X	X		X						
OK410400040110_00	Bois d' Arc Creek	11.27	R	2	2016	X	X				F	X		X						
OK410400040130_00	Jack Creek	1.52	R	3	2014	X	X				X	X		X						
OK410400040140_00	Jack Creek, North	8.04	R	3	2014	X	X				X	X		X						
OK410400040150_00	Jack Creek, South	9.28	R	3	2014	X	X				X	X		X						
OK410400040160_00	Rhoda Creek	6.75	R	3	2014	X	X				X	X		X						
OK410400040170_00	**Lake Creek**	**3.96**	**R**	**5b**	**2018**	F	**N**				F	I		X		F				
OK410400040180_00	Ada Lake	108	L	3	2016	X	X				X	X		X						
OK410400050010_00	Muddy Boggy Creek	3.87	R	3	2014	I	X				I	X		X		X				
OK410400050010_10	Muddy Boggy Creek	29.37	R	3	2014	X	X				X	X		X		X				
OK410400050020_00	Tanyard Creek	9.31	R	3	2014	X	X				X	X		X						
OK410400050040_00	Grassy Lake	1	L	3	2016	X	X				X	X		X						
OK410400050050_00	Salt Lake	1	L	3	2016	X	X				X	X		X						

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OK410400050060_00	Louie Lake	1	L	3	2016	X	X				X	X		X						
OK410400050070_00	Boehler Lake Creek	5.13	R	3	2014	X	X				X	X		X						
OK410400050080_00	Clear Lake	1	L	3	2016	X	X				X	X		X						
OK410400050090_00	Boehler Lake	1	L	3	2016	X	X				X	X		X						
OK410400050100_00	Caney Creek	9.15	R	3	2014	X	X				X	X		X						
OK410400050110_00	Lamey Slash	3.31	R	3	2014	X	X				X	X		X						
OK410400050120_00	Boggy Creek Cutoff Oxbow Lake	1	L	3	2016	X	X				X	X		X						
OK410400050130_00	Potubbi Creek	7.27	R	3	2014	X	X				X	X		X						
OK410400050140_00	Allen Lake Creek	1.68	R	3	2014	X	X				X	X		X						
OK410400050150_00	Allen Lake	1	L	3	2016	X	X				X	X		X						
OK410400050160_00	Sand Branch	1.72	R	3	2014	X	X				X	X		X						
OK410400050170_00	Atoka Lake Creek	1.48	R	3	2014	X	X				X	X		X						
OK410400050180_00	Atoka Lake	1	L	3	2014	X	X				X	X		X						
OK410400050190_00	Sandy Creek	11.82	R	2	2016	X	X				F	X		X						
OK410400050200_00	Rard Branch	2.39	R	3	2014	X	X				X	X		X						
OK410400050210_00	Cold Springs Creek	4.63	R	3	2014	X	X				X	X		X						
OK410400050220_00	Sandy Creek, East	3.06	R	3	2014	X	X				X	X		X						
OK410400050230_00	Dry Lake	1	L	3	2016	X	X				X	X		X						
OK410400050240_00	Crystal Creek	0.39	R	3	2014	X	X				X	X		X						
OK410400050250_00	Crystal Creek, North	3.84	R	3	2014	X	X				X	X		X						
OK410400050260_00	Crystal Creek, South	2.64	R	3	2014	X	X				X	X		X						
OK410400050270_00	Muddy Boggy Creek	24.53	R	3	2014	X	X				X	X		X		X				

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OK410400050270_10	**Muddy Boggy Creek**	**22.25**	**R**	**5a**	**2016**	F	F				**N**	**N**		**N**		I				
OK410400050290_00	Medicine Branch	3.31	R	3	2014	X	X				X	X		X						
OK410400050300_00	Wilson Creek	4.60	R	3	2014	X	X				X	X		X						
OK410400050310_00	Double Springs Creek	5.97	R	3	2014	X	X				X	X		X						
OK410400050320_00	Double Springs Creek, South Branch	2.61	R	3	2014	X	X				X	X		X						
OK410400050330_00	Double Springs Creek, North Branch	2.31	R	3	2014	X	X				X	X		X						
OK410400050340_00	August Creek	5.88	R	3	2014	X	X				X	X		X						
OK410400050350_00	East Branch	2.79	R	3	2014	X	X				X	X		X						
OK410400050360_00	Cabin Creek	2.70	R	3	2014	X	X				X	X		X						
OK410400050370_00	Rock Creek	5.58	R	3	2014	X	X				X	X		X						
OK410400050380_00	Little Rock Creek	3.33	R	3	2014	X	X				X	X		X						
OK410400050390_00	Campbell Creek	4.24	R	3	2014	X	X				X	X		X						
OK410400050400_00	Prairie Hollow Creek	3.31	R	3	2014	X	X				X	X		X						
OK410400050410_00	**Boggy Creek, North**	**7.25**	**R**	**5a**	**2014**	F	**N**				**N**	X		**N**		X				
OK410400050415_00	**North Boggy Creek, Unnamed Tributary of**	**3.31**	**R**	**5a**	**2016**	X	**N**		**N**			X			I					
OK410400050420_00	Chickasaw Creek	14.03	R	2	2016	X	X				F	X		X						
OK410400050430_00	Little Chickasaw Creek	6.17	R	3	2014	X	X				X	X		X						
OK410400050440_00	Rocky Creek	1.57	R	3	2014	X	X				X	X		X						
OK410400050450_00	Breadtown Creek	8.70	R	3	2014	X	X				X	X		X						
OK410400050460_00	Breadtown Creek, East	4.03	R	3	2014	X	X				X	X		X						
OK410400050470_00	Sand Creek	4.58	R	3	2014	X	X				X	X		X						
OK410400050480_00	Tumbler Creek	3.00	R	3	2014	X	X				X	X		X						

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OK410400050490_00	Sandy Creek	4.15	R	3	2014	X	X				X	X		X						
OK410400050495_00	Muddy Boggy Creek, Unnamed Tributary of	4.06	R	3	2014	X	X		X			X			X					
OK410400050500_00	Sand Creek	6.04	R	3	2014	X	X				X	X		X						
OK410400050510_00	Atoka Lake	1	L	3	2014	X	X				X	X		X						
OK410400050520_00	Long Creek	5.33	R	3	2014	X	X				X	X		X						
OK410400050530_00	Thompson Creek	7.53	R	3	2014	X	X				X	X		X						
OK410400050540_00	Coal Creek	8.70	R	3	2014	X	X				X	X		X		X				
OK410400050550_00	French Henry Creek	6.92	R	3	2014	X	X				X	X		X						
OK410400050560_00	Dunford Creek	5.54	R	3	2014	X	X				X	X		X						
OK410400050570_00	Sandy Creek	2.80	R	3	2014	X	X				X	X		X						
OK410400050580_00	Brier Creek	8.86	R	2	2016	X	X				F	X		X						
OK410400050585_00	Brier Creek, Unnamed Tributary of	3.01	R	3	2017	X	X		X			X			X					
OK410400050590_00	Sulphur Creek	4.91	R	3	2014	X	X				X	X		X						
OK410400060010_00	Muddy Boggy Creek	15.34	R	3	2014	X	X				X	X		X		X				
OK410400060010_10	Muddy Boggy Creek	13.49	R	3	2014	X	X				X	X		X		X				
OK410400060010_20	Muddy Boggy Creek	15.02	R	3	2014	X	X				X	X		X		X				
OK410400060010_30	**Muddy Boggy Creek**	**20.56**	**R**	**5c**	**2014**	I	**N**				**N**	X		X		I				
OK410400060020_00	Caney Creek	13.00	R	3	2014	X	X				X	X		X		X				
OK410400060030_00	Coon Creek	7.21	R	3	2014	X	X				X	X		X		X				✓
OK410400060040_00	**Coalgate Municipal Lake**	**352**	**L**	**5a**	**2014**	F	F				**N**	**N**		F		F				✓
OK410400060050_00	Coon Creek, North	6.37	R	3	2014	X	X				X	X		X		X				✓
OK410400060060_00	Caney Creek Lake	1	L	3	2016	X	X				X	X		X						

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OK410400060070_00	Coal Creek	11.44	R	3	2014	X	X				X	X		X						
OK410400060080_00	Phillips Hollow Creek	2.97	R	3	2014	X	X				X	X		X						
OK410400060090_00	Salt Creek	20.06	R	2	2016	X	X				F	X		X						
OK410400060100_00	Keel Creek	10.23	R	3	2014	X	X				X	X		X						
OK410400060110_00	Salt Creek, North	3.49	R	3	2014	X	X				X	X		X						
OK410400060120_00	**Caney Boggy Creek**	**26.49**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		X				
OK410400060140_00	Ranch Creek	12.63	R	3	2014	X	X				X	X		X						
OK410400060150_00	King Hollow Creek	3.43	R	3	2014	X	X				X	X		X						
OK410400060160_00	Sandy Creek	7.75	R	3	2014	X	X				X	X		X						
OK410400060170_00	Piney Creek	4.71	R	3	2014	X	X				X	X		X						
OK410400060180_00	Rock Creek	8.92	R	3	2014	X	X				X	X		X						
OK410400060190_00	Salt Creek	3.17	R	3	2014	X	X				X	X		X						
OK410400060200_00	Rock Creek	12.87	R	2	2016	X	X				F	X		X						
OK410400060210_00	Black Creek	7.23	R	3	2014	X	X				X	X		X						
OK410400060220_00	Cedar Creek	5.12	R	3	2014	X	X				X	X		X						
OK410400060230_00	Pine Creek	5.04	R	3	2014	X	X				X	X		X						
OK410400060240_00	Panther Creek	11.25	R	3	2014	X	X				X	X		X						
OK410400060250_00	Gerty Creek	3.46	R	3	2014	X	X				X	X		X						
OK410400060260_00	Big Sandy Creek	13.94	R	3	2014	X	X				X	X		X						
OK410400060270_00	Little Sandy Creek	7.78	R	3	2014	X	X		X			X			X					
OK410400060290_00	Sincere Creek	16.83	R	3	2014	X	X				X	X		X						
OK410400060300_00	Little Sandy Creek	4.66	R	3	2014	X	X				X	X		X						

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OK410400060310_00	Town Branch	2.70	R	3	2014	X	X		X						X					
OK410400070010_00	McGee Creek	32.08	R	2	2016	I	F				F	X		F		X				✓
OK410400070020_00	**McGee Creek Lake**	**3,810**	**L**	**5a**	**2012**	F	F				**N**	**N**		F		F				✓
OK410400070030_00	Crooked Oak Creek	3.91	R	3	2014	X	X				X	X		X						
OK410400070040_00	Potapo Creek	6.01	R	3	2014	X	X				X	X		X						
OK410400070050_00	Panther Creek	1.58	R	3	2014	X	X				X	X		X						
OK410400070060_00	Cat Creek	3.89	R	3	2014	X	X				X	X		X						
OK410400070070_00	Kennedy Hollow Creek	3.61	R	3	2014	X	X				X	X		X						
OK410400070080_00	Peacock Hollow Creek	2.66	R	3	2014	X	X				X	X		X						
OK410400070090_00	Prairie Hollow Creek	0.67	R	3	2014	X	X				X	X		X						
OK410400070100_00	Mill Creek	6.58	R	3	2014	X	X				X	X		X		X				
OK410400070110_00	Blue Creek	2.73	R	3	2014	X	X				X	X		X						
OK410400070140_00	Bugaboo Creek	2.06	R	3	2014	X	X				X	X		X						
OK410400070150_00	Bear Creek	3.48	R	3	2014	X	X				X	X		X						
OK410400070160_00	Little Caney Creek	4.21	R	3	2014	X	X				X	X		X						
OK410400070170_00	Grassy Branch	4.60	R	3	2014	X	X				X	X		X						
OK410400070180_00	Whiskey Hollow Branch	2.44	R	3	2014	X	X				X	X		X						
OK410400070190_00	Ray Hollow Creek	3.62	R	3	2014	X	X				X	X		X						
OK410400070200_00	Ray Creek	4.78	R	3	2014	X	X				X	X		X						
OK410400070230_00	Tommy Bond Branch	5.24	R	3	2014	X	X				X	X		X						
OK410400070250_00	Baker Branch	3.99	R	3	2014	X	X				X	X		X						
OK410400070260_00	Little Caney Creek	3.82	R	3	2014	X	X				X	X		X						

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OK410400070270_00	Cedar Creek	2.81	R	3	2014	X	X				X	X		X						
OK410400070280_00	Prairie Creek	6.05	R	3	2014	X	X				X	X		X						
OK410400070290_00	Molletuby Creek	7.16	R	3	2014	X	X				X	X		X						
OK410400070310_00	Ingersoll Creek	4.12	R	3	2014	X	X				X	X		X						
OK410400080010_00	Boggy Creek, North	27.84	R	2	2016	X	X				F	X		X		X				✓
OK410400080020_00	**Atoka Lake**	**5,700**	**L**	**5a**	**2014**	F	F				**N**	**N**		F		F				✓
OK410400080030_00	Mill Creek	7.39	R	3	2014	X	X				X	X		X						
OK410400080040_00	McEntire Lake	1	L	3	2016	X	X				X	X		X						
OK410400080050_00	Elm Creek	2.87	R	3	2014	X	X				X	X		X						
OK410400080060_00	Sub-Penitentiary Lake	1	L	3	2016	X	X				X	X		X		X				
OK410400080070_00	Chilly Creek	3.29	R	3	2014	X	X				X	X		X						
OK410400080090_00	Troney Lake	1	L	3	2016	X	X				X	X		X						
OK410400080100_00	Beck Creek	5.06	R	3	2014	X	X				X	X		X						
OK410400080110_00	Buck Creek	14.81	R	3	2014	X	X				X	X		X						
OK410400080120_00	Limestone Creek	5.91	R	3	2014	X	X				X	X		X						
OK410400080140_00	Owl Creek	5.69	R	3	2014	X	X				X	X		X						
OK410400080150_00	Roberts Creek	3.07	R	3	2014	X	X				X	X		X						
OK410400080160_00	Fivemile Creek	9.77	R	3	2014	X	X				X	X		X						
OK410400080170_00	King Creek	6.35	R	3	2014	X	X				X	X		X						
OK410400080180_00	Birch Creek	9.68	R	3	2014	X	X				X	X		X						
OK410400080190_00	Kiowa Lake Creek	4.30	R	3	2014	X	X				X	X		X						
OK410400080200_00	Kiowa Lake	1	L	3	2016	X	X				X	X		X		X				

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OK410400080210_00	Sassafras Creek	5.27	R	3	2014	X	X				X	X		X						
OK410600010010_00	Blue River	48.17	R	1	2016	F	F				F	F		F		F				
OK410600010020_00	Red Branch	5.27	R	3	2014	X	X				X	X		X						
OK410600010030_00	**Sulphur Creek**	**14.61**	**R**	**5a**	**2016**	F	F				**N**	X		**N**						
OK410600010040_00	Wolf Creek	4.35	R	3	2014	X	X				X	X		X						
OK410600010050_00	McGee Creek	4.69	R	3	2014	X	X				X	X		X						
OK410600010060_00	Sassafras Creek	6.77	R	3	2014	X	X				X	X		X						
OK410600010070_00	Rock Branch	2.85	R	3	2014	X	X				X	X		X						
OK410600010080_00	Cherokee Lake	1	L	3	2016	X	X				X	X		X						
OK410600010090_00	**Bokchito Creek**	**16.78**	**R**	**5a**	**2016**	F	F				F	X		**N**						
OK410600010095_00	Bokchito Creek, Unnamed Tributary of	1.98	R	3	2014	X	X		X			X			X					
OK410600010100_00	Chaney Creek	7.43	R	3	2014	X	X				X	X		X						
OK410600010110_00	Academy Creek	2.19	R	3	2014	X	X				X	X		X						
OK410600010120_00	Banty Spring Creek	3.66	R	3	2014	X	X				X	X		X						
OK410600010130_00	Little Creek	2.34	R	3	2014	X	X				X	X		X						
OK410600010140_00	**Caddo Creek**	**13.96**	**R**	**5a**	**2016**	F	F				**N**	X		**N**						
OK410600010150_00	Rock Creek	4.47	R	3	2014	X	X				X	X		X						
OK410600010160_00	Mail Rider Creek	5.62	R	3	2014	X	X				X	X		X						
OK410600010170_00	Rocky Branch	3.49	R	3	2014	X	X				X	X		X						
OK410600010180_00	Elm Creek	3.67	R	3	2014	X	X				X	X		X						
OK410600010190_00	Puckett Creek	2.77	R	3	2014	X	X				X	X		X						
OK410600010200_00	J-N Creek	8.04	R	3	2014	X	X				X	X		X						

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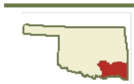

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OK410600010210_00	North Branch	3.26	R	3	2014	X	X				X	X		X						
OK410600010220_00	Rock Creek	2.43	R	3	2014	X	X				X	X		X						
OK410600010230_00	Cedar Creek	3.59	R	3	2014	X	X				X	X		X						
OK410600010240_00	Dude Creek	4.01	R	3	2014	X	X				X	X		X						
OK410600010250_00	Sandy Creek	3.41	R	3	2014	X	X				X	X		X		X				
OK410600010260_00	Kanola Creek	10.84	R	3	2014	X	X				X	X		X						
OK410600010270_00	Harrington Creek	7.05	R	3	2014	X	X				X	X		X						
OK410600010280_00	Thompson Creek	5.16	R	3	2014	X	X				X	X		X						
OK410600010290_00	Blue River	15.63	R	2	2016	X	X				F	X		X		X				
OK410600010300_00	**Mineral Bayou**	**15.53**	**R**	**5a**	**2016**	F	F				**N**	X		**N**			F			
OK410600010310_00	Chuckwa Creek	6.03	R	3	2014	X	X				X	X		X						
OK410600010320_00	Johnson Creek	4.89	R	3	2014	X	X				X	X		X						
OK410600010330_00	Simon Creek	6.09	R	3	2014	X	X				X	X		X						
OK410600010340_00	Little Blue River	7.71	R	3	2014	X	X				X	X		X		X				
OK410600010350_00	Bois d' Arc Creek	8.39	R	3	2014	X	X				X	X		X						
OK410600010360_00	McClellan Creek	3.41	R	3	2014	X	X				X	X		X						
OK410600010370_00	Reeder Creek	7.81	R	3	2014	X	X				X	X		X						
OK410600010380_00	Cooper Creek	3.46	R	3	2014	X	X				X	X		X						
OK410600010390_00	Horse Creek	5.40	R	3	2014	X	X				X	X		X						
OK410600010440_00	Durant Lake	287	L	2	2016	F	I				I	I		F						
OK410600020010_00	Blue River	16.75	R	3	2014	X	X				X	X		X		X				
OK410600020010_10	Blue River	12.18	R	3	2014	X	X			X		X		X		X		✓		

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OK410600020010_20	Blue River	40.10	R	2	2016	X	X	F				X		X		X		✓		
OK410600020020_00	**Sandy Creek**	**15.35**	**R**	**5a**	**2016**	I	F				**N**	X		**N**		X				
OK410600020030_00	Little Sandy Creek	8.24	R	3	2014	X	X				X	X		X						
OK410600020040_00	Brushy Creek	1.77	R	3	2014	X	X				X	X		X						
OK410600020050_00	Peter Sandy Creek	5.14	R	3	2014	I	I				I	X		X						
OK410600020060_00	Pecan Creek	5.21	R	3	2014	X	X				X	X		X						
OK410600020070_00	Diamond Spring Branch	4.76	R	3	2014	X	X				X	X		X						
OK410600020080_00	Little Pecan Creek	3.94	R	3	2014	X	X				X	X		X						
OK410600020090_00	Little Blue Creek	12.09	R	3	2014	X	X				X	X		X						
OK410600020100_00	**Little West Blue Creek**	**19.08**	**R**	**5c**	**2016**	F	F				F	X		**N**						
OK410600020120_00	Limestone Creek	5.44	R	3	2014	X	X				X	X		X						
OK410700000010_00	Red River	14.79	R	3	2014	X	X				X	X		X		X				
OK410700000010_10	Red River	22.24	R	3	2014	X	X				X	X		X		X				
OK410700000010_20	Red River	3.62	R	3	2014	X	X				X	X		X		X				
OK410700000010_30	Red River	2.18	R	3	2014	X	X				X	X		X		X				
OK410700000010_40	Red River	17.57	R	2	2016	I	F				I	F		I		F				
OK410700000020_00	Rice Creek	6.50	R	3	2014	X	X				X	X		X						
OK410700000030_00	Tuklo Creek	11.02	R	3	2014	X	X				X	X		X						
OK410700000040_00	Island Bayou	41.20	R	2	2016	I	F				F	X			I		F			
OK410700000050_00	Brushy Creek	3.86	R	3	2014	X	X				X	X		X						
OK410700000060_00	Jones Creek	6.26	R	3	2014	X	X				X	X		X						
OK410700000070_00	Wolf Creek	9.45	R	3	2014	X	X				X	X		X						

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OK410700000080_00	Long Creek	9.44	R	3	2014	X	X				X	X		X						
OK410700000090_00	Sassafras Creek	12.50	R	3	2014	X	X				X	X		X						
OK410700000100_00	Caney Creek	18.67	R	3	2014	X	X				X	X		X						
OK410700000120_00	Caney Creek	4.47	R	3	2014	X	X				X	X		X						
OK410700000130_00	Moore Creek	6.23	R	3	2014	X	X				X	X		X						
OK410700000140_00	Brown Creek	15.18	R	3	2014	X	X				X	X		X						
OK410700000150_00	Chico Creek	2.96	R	3	2014	X	X				X	X		X						
OK410700000160_00	Muddy Creek	4.43	R	3	2014	X	X				X	X		X						
OK410700000170_00	Pepper Creek	4.23	R	3	2014	X	X				X	X		X						
OK410700000180_00	Sand Creek	8.44	R	3	2014	X	X				X	X		X						
OK410700000190_00	Sandy Creek	5.80	R	3	2014	X	X				X	X		X						
OK410700000200_00	Greenwood Creek	2.67	R	3	2014	X	X				X	X		X						
OK410700000210_00	Webb Creek	7.13	R	3	2014	X	X				X	X		X						
OK410700000220_00	Rock Creek	3.48	R	3	2014	X	X				X	X		X						
OK410700000230_00	Eastman Creek	7.19	R	2	2015	I	F				I	X		I						
OK410700000240_00	Kodac Creek	4.43	R	3	2014	X	X				X	X		X						
OK410700000250_00	Sandy Creek	10.09	R	3	2014	X	X				X	X		X		X				
OK410700000255_00	Sandy Creek, Unnamed Tributary of	1.01	R	3	2017	X	X		X						X					
OK410700000260_00	**Sand Creek**	**12.01**	**R**	**5a**	**2016**	F	F				F	X		**N**						
OK410700000270_00	Little Sand Creek	8.81	R	3	2014	X	X				X	X		X						

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OK520500010020_00	**Eufaula Lake, N. Canadian River Arm**	**20,680**	**L**	**5a**	**2016**	F	F				**N**	I		I		I				
OK520500010030_00	Carr Creek	6.35	R	3	2017	X	X				X	X		X						
OK520500010040_00	Nellie Creek	3.60	R	3	2017	X	X				X	X		X						
OK520500010050_00	Fivemile Creek	2.31	R	3	2017	X	X				X	X		X						
OK520500010060_00	Possum Creek	2.91	R	3	2017	X	X				X	X		X						
OK520500010070_00	Coon Creek	5.07	R	3	2017	X	X				X	X		X						
OK520500010100_00	Fame Branch	3.37	R	3	2017	X	X				X	X		X						
OK520500010110_10	**Canadian River, North**	**48.39**	**R**	**5a**	**2012**	I	F				**N**	**N**		**N**		I				
OK520500010120_00	Limbo Creek	12.67	R	3	2012	I	I				I	X		X						
OK520500010130_00	Gar Creek	5.34	R	2	2012	I	F				I	X		X		I				
OK520500010140_00	Piney Creek	3.52	R	3	2017	X	X				X	X		X						
OK520500010150_00	Fish Creek	11.00	R	3	2017	X	X				X	X		X						
OK520500010151_00	Dustin Creek	1.44	R	3	2017	X	X				X	X		X						
OK520500010152_00	Dustin Lake	27	L	3	2016	X	X				X	X		X		X				
OK520500010160_00	Parsley Creek	8.04	R	3	2017	X	X				X	X		X						
OK520500010170_00	Bad Creek	19.11	R	**4a**	2016	F	F				F	X		**N**		I				
OK520500010180_00	Salt Creek	4.90	R	3	2017	X	X				X	X		X						
OK520500010190_00	Rock Creek	4.71	R	3	2017	X	X				X	X		X						
OK520500010200_00	**Alabama Creek**	**14.20**	**R**	**5b**	**2016**	I	**N**				F	X		**N**		I				
OK520500010210_00	Weleetka Creek	2.96	R	3	2017	X	X				X	X		X		X				✓
OK520500010220_00	Weleetka City Lake	61	L	3	2014	X	X				X	X		X		X				✓
OK520500010240_00	Dale Turner Lake!	49	L	3	2016	X	X				X	X		X						

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OK520500010242_00	**Clearview Creek**	**2.29**	**R**	**5b**	**2017**	I	**N**				X	X		X						
OK520500010260_00	Salt Creek	3.01	R	3	2017	X	X				X	X		X						
OK520500010270_00	**Wetumka City Lake**	**169**	**L**	**5a**	**2016**	F	F				I	F		**N**		X				
OK520500010280_00	Flat Rock Creek	9.72	R	2	2017	I	I				F	X		X		X				
OK520500010290_00	Battle Creek	4.21	R	2	2012	I	X				I	X		F						
OK520500010300_00	Airport Lake	100	L	3	2016	X	X				X	X		X						
OK520500020010_00	**Wewoka Creek**	**42.99**	**R**	**5b**	**2016**	F	**N**				F	X		**N**			F			
OK520500020020_00	**Greasy Creek**	**18.51**	**R**	**5a**	**2017**	F	F				**N**	X		I						
OK520500020026_00	Cheyarha Creek	1.76	R	2	2012	I	F				I	X		X		I				
OK520500020027_00	**Cheyarha Creek, East**	**3.01**	**R**	**5b**	**2017**	I	**N**				I	X		X		I				
OK520500020028_00	Cheyarha Creek, West	2.92	R	3	2012	I	I				I	X		X		I				
OK520500020030_00	Fish Creek	8.72	R	2	2012	I	F				I	X		X		I				
OK520500020035_00	Wetumka Creek!	2.39	R	3	2017	X	X		X			X			X					
OK520500020040_00	Brooks Lake	120	L	2	2016	F	I				I	I		F						
OK520500020050_00	Ranche Creek	10.83	R	3	2017	X	X				X	X		X						
OK520500020060_00	Graves Creek	13.50	R	3	2017	I	I				I	X		X		I				
OK520500020070_00	Elm Creek	7.90	R	3	2017	X	X				X	X		X						
OK520500020080_00	Grief Creek	7.10	R	3	2017	X	X				X	X		X						
OK520500020090_00	Little Wewoka Creek	20.44	R	**4a**	2016	I	F				F	X		**N**		I				
OK520500020100_00	Stanley Creek	3.65	R	3	2017	X	X				X	X		X						
OK520500020110_00	Stanley Lake	23	L	3	2016	X	X				X	X		X						
OK520500020120_00	Long George Creek	10.88	R	3	2017	X	X				X	X		X						

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OK520500020130_00	Yeager Creek	7.97	R	3	2017	X	X				X	X		X						
OK520500020140_00	Tiger Creek	7.54	R	3	2017	X	X				X	X		X						
OK520500020150_00	Jacobs Creek	9.33	R	3	2017	X	X				X	X		X						
OK520500020160_00	Cooter Creek	9.22	R	3	2017	X	X				X	X		X						
OK520500020170_00	Coon Creek	1.71	R	3	2017	X	X				X	X		X		X				✓
OK520500020180_00	Coon Creek	3.90	R	3	2012	I	I				I	I		X		I				✓
OK520500020190_00	**Wewoka Lake**	**371**	**L**	**5a**	**2016**	F	F				**N**	X		F		**N**				✓
OK520500020200_00	Tiger Creek	3.07	R	3	2017	X	X				X	X		X						
OK520500020210_00	Tiger Creek	3.77	R	3	2017	I	I				I	X		X		I				
OK520500020220_00	**Sportsman Lake**	**354**	**L**	**5a**	**2016**	F	F				**N**	F		F		F				
OK520500020230_00	**Carter Creek**	**2.70**	**R**	**5c**	**2012**	F	**N**				I	X		X		I				
OK520500020230_10	Carter Creek	4.23	R	2	2012	X	F				I	X		X		I				
OK520500020240_00	**Wewoka Creek**	**5.36**	**R**	**5a**	**2012**	F	X		**N**			I		X			F			
OK520500020240_10	**Wewoka Creek**	**10.27**	**R**	**5a**	**2017**	I	**N**		X			X			X	**N**				
OK520500020250_00	**Magnolia Creek**	**4.81**	**R**	**5b**	**2017**	F	**N**				I	X		X		I				
OK520500020260_00	**Salt Cedar Creek**	**1.33**	**R**	**5b**	**2018**	I	**N**				I	X		X		I				
OK520500020260_10	Salt Cedar Creek	0.86	R	3	2017	X	X				X	X		X						
OK520500020260_20	**Salt Cedar Creek**	**1.06**	**R**	**5b**	**2017**	I	**N**				I	X		X		I				
OK520500020270_00	**Wewoka Creek, Trib A!**	**5.26**	**R**	**5b**	**2017**	I	**N**				I	X		X		I				
OK520500020280_00	**Oakwood Cemetery Creek!**	**6.69**	**R**	**5b**	**2017**	I	**N**		X			X			X					
OK520500020290_00	Wewoka Creek, Unnamed Tributary of	1.48	R	3	2017	X	X		X						X					
OK520510000010_00	**Canadian River, North**	**36.94**	**R**	**5a**	**2016**	I	F				**N**	**N**		**N**		F				

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OK520510000010_10	Canadian River, North	35.76	R	3	2017	X	X				X	X		X		X				
OK520510000020_00	Cohee Creek	7.05	R	3	2017	X	X				X	X		X						
OK520510000030_00	Cohee Lake	80	L	3	2016	X	X				X	X		X						
OK520510000040_00	Okemah Creek	12.94	R	3	2017	I	I				I	X		X						
OK520510000050_00	Sand Creek	15.03	R	3	2017	I	I		X			X			X					
OK520510000053_00	Sand Creek, Unnamed Tributary of	4.31	R	3	2017	X	X		X			X			X					
OK520510000055_00	Boley Creek!	5.86	R	3	2017	X	X		X			X			X					
OK520510000060_00	Rock Creek	8.47	R	3	2017	X	X				X	X		X						
OK520510000070_00	Fiftytwo Creek	3.94	R	3	2017	X	X				X	X		X						
OK520510000080_00	Gar Creek	12.60	R	3	2017	X	X				X	X		X						
OK520510000090_00	Snake Creek	7.63	R	3	2017	I	I				I	X		X		I				
OK520510000095_00	**Turkey Creek, Trib A!**	**4.26**	**R**	**5b**	**2018**	F	**N**				F	X		X		F				
OK520510000100_00	**Turkey Creek**	**16.42**	**R**	**5a**	**2017**	F	**N**				**N**	X		I		F				
OK520510000105_00	**Earlsboro Creek**	**5.13**	**R**	**5b**	**2017**	I	**N**				X	X		X		I				
OK520510000110_00	**Canadian River, North**	**3.04**	**R**	**5a**	**2012**	I	I				**N**	I		**N**		X				
OK520510000110_05	**Canadian River, North**	**21.91**	**R**	**5a**	**2016**	F	**N**				**N**	**N**		I			F			
OK520510000110_10	**Canadian River, North**	**20.31**	**R**	**5a**	**2016**	I	**N**				**N**	F		**N**			F			
OK520510000110_20	**Canadian River, North**	**31.54**	**R**	**5a**	**2012**	X	X				**N**	X		**N**			F			
OK520510000120_00	Shan Creek	7.92	R	3	2012	X	X		X			X			X					
OK520510000130_00	Deer Creek	6.70	R	2	2012	I	I				I	X		X			F			
OK520510000140_00	Painter Creek	5.01	R	3	2017	X	X				X	X		X						
OK520510000150_00	Stamp Dance Creek	2.93	R	3	2017	X	X				X	X		X						

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OK520510000160_00	Squaw Creek	2.59	R	3	2017	X	X				X	X		X						
OK520510000170_00	Rock Creek	10.29	R	3	2017	X	X				X	X		X						
OK520510000180_00	Rock Creek	5.80	R	3	2017	X	X				X	X		X						
OK520510000190_00	Squirrel Creek	10.04	R	3	2017	X	X				X	X		X						
OK520510000200_00	Tecumseh Creek	0.93	R	3	2017	X	X				X	X		X		X				✓
OK520510000210_00	Tecumseh Creek	1.83	R	3	2017	X	X				X	X		X		X				✓
OK520510000220_00	**Tecumseh Lake**	**127**	**L**	**5a**	**2016**	F	F				**N**	F		F		F				✓
OK520510000230_00	Lost Creek	5.01	R	3	2017	X	X				X	X		X						
OK520510000240_00	Deer Creek	3.73	R	3	2017	X	X				X	X		X						
OK520510000250_00	Deer Creek, South	7.23	R	3	2017	X	X				X	X		X		X				✓
OK520510000255_00	Wes Watkins Reservoir	1,132	L	2	2012	F	F				F	I		F		I				
OK520510000280_00	**Shawnee Twin Lake #1 (South)**	**1,336**	**L**	**5a**	**2014**	F	F				**N**	F		F		F				✓
OK520510000290_00	**Deer Creek, South**	**4.40**	**R**	**5a**	**2017**	**N**	I				**N**	X		I		**N**				✓
OK520510000300_00	**Shawnee Twin Lake #2 (North)**	**1,100**	**L**	**5a**	**2016**	F	F				**N**	F		F		F				✓
OK520510000310_00	Deer Creek, North	9.55	R	3	2017	X	X				X	X		X		X				
OK520510000320_00	Canadian River, North, Unnamed Trib	1.77	R	3	2017	X	X		X						X					
OK520510000330_00	Horseshoe Lake	450	L	3	2016	X					X	X		X						
OK520510000340_00	Church Trib!	3.47	R	3	2017	X	X				X	X		X						
OK520510000390_00	Squirrel Creek, Unnamed Tributary of	4.85	R	3	2017	X	X				X	X		X						
OK520520000010_00	**Canadian River, North**	**3.85**	**R**	**5a**	**2016**	I	F				**N**	F		**N**			F			
OK520520000010_10	**Canadian River, North**	**13.35**	**R**	**5a**	**2012**	X	X				I	X		**N**			F			
OK520520000010_20	**Canadian River, North**	**13.71**	**R**	**5a**	**2016**	I	F				F	**N**		**N**			F			

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OK520520000010_30	**Canadian River, North**	**4.55**	**R**	**5a**	**2012**	X	X				**N**	X		**N**			F			
OK520520000010_40	**Canadian River, North**	**9.78**	**R**	**5a**	**2012**	X	X				**N**	X		**N**			F			
OK520520000010_50	Canadian River, North	4.25	R	3	2012	X	X				X	X		X		X				
OK520520000020_00	Harrah Creek	6.37	R	3	2017	X	X				X	X		X						
OK520520000030_00	**Choctaw Creek**	**9.76**	**R**	**5a**	**2012**	I	I		**N**			X			I		F			
OK520520000035_00	Choctaw Creek, Unnamed Tributary of	2.31	R	3	2017	X	X		X					X						
OK520520000040_00	Jones Creek	4.19	R	3	2017	X	X				X	X		X						
OK520520000050_00	Silver Creek	3.22	R	3	2017	X	X				X	X		X						
OK520520000060_00	**Crutcho Creek**	**3.55**	**R**	**5a**	**2012**	I	I				**N**	X		I						
OK520520000070_00	**Crutcho Creek**	**3.85**	**R**	**5a**	**2012**	I	F				**N**	X		**N**						
OK520520000070_10	Crutcho Creek	2.42	R	2	2017	I	F		X			X			X					
OK520520000080_00	Soldier Creek	6.76	R	3	2017	X	X				X	X		X						
OK520520000090_00	**Crutcho Creek**	**3.14**	**R**	**5a**	**2012**	**N**	X		**N**			X			X					
OK520520000110_00	**Cherry Creek**	**7.31**	**R**	**5a**	**2012**	I	I		**N**			I			X					
OK520520000140_00	Thompson Lake	100	L	3	2016	X	X				X	X		X						
OK520520000150_00	**Crooked Oak Creek**	**6.98**	**R**	**5a**	**2012**	**N**	**N**				**N**	X		**N**		**N**				
OK520520000160_00	Lightning Creek	7.50	R	3	2012	I	X				I	X		X						
OK520520000170_00	Brock Creek	5.66	R	3	2017	I	X				I	X		X						
OK520520000190_00	Crutcho Creek, Unnamed Tributary of	3.22	R	3	2017	X	X				X	X		X						
OK520520000210_00	**Canadian River, North**	**1.07**	**R**	**5a**	**2012**	**N**	X				**N**	X		**N**		X				
OK520520000230_00	**Campbell Creek**	**5.89**	**R**	**5a**	**2017**	I	**N**				**N**	X		I						
OK520520000240_00	**Mustang Creek**	**9.16**	**R**	**5a**	**2012**	I	I				**N**	X		**N**						

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OK520520000250_00	**Canadian River, North**	**6.52**	**R**	**5a**	**2016**	I	F				**N**	I		F		I				
OK520520000260_00	**Overholser Lake**	**1,500**	**L**	**5a**	**2016**	I	**N**				**N**	F		F		F				
OK520520000270_00	Ramsey Lake	20	L	3	2016	X	X				X	X		X						
OK520520000280_00	Bluff Creek Canal (Hefner L)	2.39	R	3	2017	X	X				X	X		X						
OK520520000290_00	Soldier Creek, Unnamed Trib of	1.20	R	3	2017	X	X				X	X			X					
OK520520000300_00	West Ramp Branch!	0.61	R	3	2017	X	X				X	X		X						
OK520520000310_00	3001 Branch!	1.30	R	3	2017	X	X				X	X		X						
OK520520000320_00	Taxiway Branch!	1.89	R	3	2017	X	X				X	X		X						
OK520520000330_00	Kuhlman Creek	1.95	R	3	2017	X	X				X	X		X						
OK520520000340_00	Albert High School Creek!	2.58	R	3	2017	X	X				X	X		X						
OK520520000350_00	**Airport Heights Creek!**	**4.26**	**R**	**5a**	**2017**	I	X				**N**	X		I						
OK520530000010_00	**Canadian River, North**	**10.24**	**R**	**5a**	**2016**	X	F				F	X		**N**		X				
OK520530000010_10	Canadian River, North	105.34	R	**4a**	2016	F	F				F	F		**N**		F				
OK520530000020_00	Wilshire Creek	1.31	R	3	2017	X	X				X	X		X						
OK520530000030_00	**Shell Creek**	**9.48**	**R**	**5a**	**2012**	F	F				**N**	X		**N**		F				
OK520530000040_00	Purcell Creek	11.75	R	3	2017	I	I				I	X		X		X				
OK520530000050_00	Sixmile Creek	15.96	R	3	2017	I	X				I	X		X		X				
OK520530000060_00	Fourmile Creek	4.77	R	2	2017	X	X				F	X		X						
OK520530000070_00	Fourmile Creek	3.04	R	3	2017	X	X				X	X		X						
OK520530000080_00	**El Reno Lake**	**170**	**L**	**5a**	**2016**	I	F				**N**	F		F						
OK520530000090_00	Target Creek	6.77	R	3	2017	X	X				X	X		X						
OK520530000100_00	Rolla Lake	80	L	2	2016	I	I				I	I		F						

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OK520530000110_00	Sixmile Creek	13.62	R	3	2017	I	I				I	X		X						
OK520530000120_00	Laughlin Lake Creek	2.77	R	3	2017	X	X				X	X		X						
OK520530000130_00	Laughlin Lake	45	L	3	2016	X	X				X	X		X						
OK520530000140_00	Horse Creek	7.96	R	3	2017	X	X				X	X		X						
OK520530000150_00	Relay Creek	8.38	R	2	2017	X	X				F	X		X						
OK520530000160_00	Chicken Creek	7.48	R	3	2017	X	X				X	X		X						
OK520530000170_00	Weavers Creek	8.24	R	3	2017	X	X				X	X		X						
OK520530000180_00	Ninemile Creek	7.78	R	3	2017	I	I				I	X		X						
OK520530000190_00	**Minnehaha Creek**	**7.90**	**R**	**5a**	**2017**	I	X				**N**	X			X	X				
OK520530000200_00	Canadian River, North, Unnamed Trib	5.34	R	2	2017	X	X		F						X					
OK520530000270_00	**Perimeter Creek!**	**3.73**	**R**	**5a**	**2017**	**N**	I				**N**	X		X						
OK520530000280_00	Neighborhood Creek!	2.88	R	3	2017	X	X				X	X		X						
OK520600010010_00	**Canadian River**	**37.50**	**R**	**5b**	**2016**	I	**N**				F	F		**N**		I				
OK520600010020_00	Arbeca Creek	5.68	R	3	2017	X	X				X	X		X						
OK520600010030_00	Cotton Creek	6.97	R	3	2017	X	X				X	X		X						
OK520600010040_00	Clear Creek	5.96	R	3	2012	I	I				I	X		X		I				
OK520600010050_00	Barret Branch	2.59	R	3	2017	X	X				X	X		X						
OK520600010060_00	Factory Creek	6.32	R	**4a**	2012	F	F				I	X		**N**		I				
OK520600010070_00	Rock Creek	3.34	R	3	2012	I	I				I	X		X		I				
OK520600010080_00	Jumper Creek	5.68	R	2	2012	I	I				I	X		X			F			
OK520600010090_00	Jumper Creek	3.11	R	2	2017	I	I				I	X		X			F			
OK520600010100_00	Konawa Lake	1,350	L	1	2016	F	F				F	F		F			F			

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OK520600010110_00	Negro Creek	5.10	R	3	2017	X	X				X	X		X						
OK520600010120_00	Canadian River, Unnamed Tributary of	3.62	R	3	2017	X	X		X						X					
OK520600020010_00	**Canadian River**	**24.35**	**R**	**5b**	**2017**	F	I				**N**	X		X		I				
OK520600020020_00	Turkey Creek	5.46	R	3	2017	X	X				X	X		X						
OK520600020030_00	Grayson Creek	4.32	R	3	2017	X	X				X	X		X						
OK520600020040_00	Buckhorn Creek	5.30	R	3	2017	I	I				I	X		X		I				
OK520600020050_00	Bebee Creek	3.72	R	2	2012	I	F				I	X		X		I				
OK520600020060_00	Slush Pit Creek	2.68	R	3	2017	X	X				X	X		X						
OK520600020070_00	Maxwell Creek	3.84	R	3	2017	X	X				X	X		X						
OK520600020080_00	Reserve Pit Creek	1.87	R	3	2017	X	X				X	X		X						
OK520600020100_00	Leach Field Creek	1.60	R	3	2017	X	X				X	X		X						
OK520600020110_00	Hutchinson Creek	3.11	R	3	2017	X	X				X	X		X						
OK520600020120_00	Young Creek	4.02	R	3	2017	X	X				X	X		X						
OK520600020130_00	Preacher Creek	5.32	R	3	2017	X	X				X	X		X						
OK520600020140_00	Big Creek	10.56	R	3	2017	X	X				X	X		X						
OK520600020150_00	Chism Creek	4.86	R	3	2017	X	X				X	X		X						
OK520600020160_00	Cat Creek	4.00	R	2	2017	I	X				F	X		X						
OK520600020165_00	Cat Creek, Unnamed Tributary of	0.96	R	3	2017	X	X		X						X					
OK520600020170_00	**Julian Creek**	**5.19**	**R**	**5a**	**2017**	F	**N**				I	X		**N**						
OK520600020180_00	Constantine Creek	7.19	R	3	2017	X	X				X	X		X						
OK520600020190_00	Pond Creek	19.58	R	2	2012	I	F				I	X		X		I				
OK520600020200_00	Hog Creek	6.01	R	3	2012	X	X				X	X		X						

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OK520600020205_00	**Red Springs Creek**	**1.04**	**R**	**5b**	**2018**	F	**N**				I	X		X		I				
OK520600020210_00	Jumper Creek	2.26	R	3	2012	I	I				I	X		X		I				
OK520600020220_00	Pond Creek, East	4.44	R	3	2012	I	I				I	X		X						
OK520600020230_00	Helsel Creek	2.49	R	3	2012	I	I				I	X		X		I				
OK520600020240_00	Dahlgren Lake	40	L	3	2016	X	X				X	X		X						
OK520600030010_00	**Canadian Sandy Creek**	**37.70**	**R**	**5a**	**2016**	I	F				F	X		**N**		I				
OK520600030020_00	**Little Sandy Creek**	**8.56**	**R**	**5a**	**2016**	I	X				**N**	X		X			F			
OK520600030030_00	Spring Brook	28.44	R	2	2012	I	F				I	X		I		I				
OK520600030040_00	Black Creek	6.17	R	3	2017	X	X				X	X		X						
OK520600030050_00	Rodtky Creek (Bodky)	8.71	R	3	2017	X	X				X	X		X		X				
OK520600030060_00	Days Creek	1.56	R	3	2017	X	X				X	X		X						
OK520600030070_00	Days Creek, East	7.03	R	3	2017	X	X				X	X		X						
OK520600030080_00	Days Creek, West	5.56	R	3	2017	X	X				X	X		X						
OK520600030090_00	Coon Creek	5.60	R	3	2017	X	X				X	X		X						
OK520600030100_00	Burris Creek	6.98	R	3	2017	X	X				X	X		X						
OK520600030110_00	Coon Creek	4.72	R	3	2017	X	X				X	X		X						
OK520600030120_00	Little Canadian Sandy Creek	7.47	R	3	2017	X	X				X	X		X		X				
OK520610010010_00	Canadian River	11.93	R	3	2015	X	X				X	X		X						
OK520610010010_05	Canadian River	32.65	R	**4a**	2016	I	F				F	F		**N**						
OK520610010010_10	Canadian River	11.48	R	3	2015	X	X				X	X			X					
OK520610010010_20	Canadian River	6.89	R	3	2015	X	X				X	X			X					
OK520610010020_00	Buckhead Creek	15.44	R	3	2015	X	X				X	X		X		X				

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OK520610010030_00	Little Buckhead Creek	4.79	R	3	2015	X	X				X	X		X						
OK520610010060_00	Bell Mere Creek	0.93	R	3	2015	X	X				X	X		X						
OK520610010070_00	Bell Mere Lake	13	L	3	2016	X	X				X	X		X						
OK520610010080_00	**Willow Creek**	**9.06**	**R**	**5a**	**2016**	F	F				**N**	X		F						
OK520610010090_00	Willow Creek, West	6.42	R	3	2015	X	X				X	X		X						
OK520610010100_00	Willow Creek, East	3.33	R	3	2015	X	X				X	X		X						
OK520610010120_00	Chouteau Creek	9.10	R	3	2015	X	X				X	X		X						
OK520610010130_00	Dripping Springs Creek	4.79	R	3	2015	X	X				X	X		X						
OK520610010140_00	Boone Creek	1.20	R	3	2015	X	X				X	X		X						
OK520610010150_00	Boone Creek, East Branch	2.87	R	3	2015	X	X				X	X		X						
OK520610010160_00	Boone Creek, West Branch	3.40	R	3	2015	X	X				X	X		X						
OK520610010180_00	**Bishop Creek**	**7.82**	**R**	**5a**	**2016**	I	I				**N**	X		I						
OK520610010190_00	Imhoff Creek	4.08	R	3	2015	X	X				X	X		X						
OK520610010200_00	**Merkle Creek**	**3.16**	**R**	**5c**	**2016**	I	F				**N**	X		X		I				
OK520610010205_00	Brookhaven Creek	4.35	R	3	2016	X	X				I	X		X						
OK520610010210_00	Pond Creek	7.62	R	3	2015	I	I				I	X		X		X				
OK520610010215_00	Tim's Creek	3.12	R	3	2015	X	X		X			X			X					
OK520610010220_00	Lost Creek	2.04	R	3	2015	X	X				X	X		X						
OK520610010230_00	**Cow Creek**	**6.71**	**R**	**5a**	**2012**	I	I				**N**	I		X		I				
OK520610020010_00	Canadian River	19.62	R	3	2015	X	X				X	X			X					
OK520610020020_00	Coal Creek	6.66	R	3	2015	X	X				X	X		X						
OK520610020030_00	Worley Creek	9.10	R	3	2015	X	X				X	X		X						

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OK520610020040_00	East Creek	10.93	R	3	2015	X	X				X	X		X						
OK520610020050_00	Bennett Creek	4.03	R	3	2015	X	X				X	X		X		X				
OK520610020060_00	**Foreman Creek**	**4.77**	**R**	**5a**	**2015**	I	I				**N**	X		I						
OK520610020070_00	**Dry Creek**	**8.37**	**R**	**5a**	**2015**	**N**	I				**N**	X		I		**N**				
OK520610020080_00	Store Creek	5.63	R	3	2015	X	X				X	X		X		X				
OK520610020090_00	West Creek	5.44	R	3	2015	X	X		X			X			X					
OK520610020100_00	Snake Creek	6.63	R	3	2015	X	X				X	X		X						
OK520610020110_00	Beaver Creek	8.78	R	3	2015	X	X				X	X		X						
OK520610020120_00	**Buggy Creek**	**26.51**	**R**	**5a**	**2016**	F	**N**				**N**	X		**N**			F			
OK520610020130_00	Fisher Creek	3.10	R	3	2015	X	X				X	X		X						
OK520610020140_00	Bullet Creek	3.30	R	3	2015	X	X				X	X		X						
OK520610020150_00	Canadian River	2.92	R	3	2015	X	X				X	X			X					
OK520610020150_10	**Canadian River**	**36.25**	**R**	**5a**	**2016**	F	F				**N**	**N**		**N**			F			
OK520610020155_00	Canadian River, Unnamed Tributary of	3.46	R	3	2015	X	X		X						X					
OK520610020160_00	Arapaho Creek	8.43	R	3	2015	X	X				X	X		X						
OK520610020165_00	**Trib8!**	**5.97**	**R**	**5a**	**2018**	F	I				**N**	I		X						
OK520610020170_00	Tall Bear Canyon Creek	4.73	R	3	2015	X	X				X	X		X						
OK520610020180_00	Cedar Lake Creek	2.08	R	3	2015	X	X				X	X		X						
OK520610020190_00	Cedar Lake	62	L	3	2016	X	X				X	X		X						
OK520610020200_00	Powder Face Creek	7.62	R	3	2015	I	I				I	X		X						
OK520610020210_00	**Canyon View Creek**	**7.08**	**R**	**5c**	**2016**	X	X				**N**	X		X						
OK520610020220_00	Fisher Canyon Creek	5.68	R	3	2015	X	X				X	X		X						

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OK520610030010_00	**Walnut Creek**	**28.44**	**R**	**5a**	**2016**	I	F				F	X		**N**						
OK520610030040_00	Purcell Lake	150	L	2	2016	F	F				F	I		I						
OK520610030050_00	Red Blanket Creek	5.31	R	3	2015	X	X				X	X		X						
OK520610030060_00	Sandy Creek	6.06	R	3	2015	X	X				X	X		X						
OK520610030070_00	Dibble Creek	9.37	R	3	2015	X	X				X	X		X						
OK520610030080_00	**Walnut Creek, North Fork**	**16.84**	**R**	**5a**	**2015**	F	F				**N**	X		**N**		I				
OK520610030090_00	Stinson Creek	5.71	R	3	2015	X	X				X	X		X						
OK520610030100_00	Bridge Creek	6.44	R	3	2015	X	X				X	X		X						
OK520610030110_00	Buffalo Creek	5.09	R	2	2016	X	X				F	X		X						
OK520610030115_00	Walnut Creek, Unnamed Trib of	2.98	R	2	2016	X	X				F	X		X						
OK520610030120_00	Blanchard Creek	4.33	R	3	2015	X	X				X	X		X						
OK520610030130_00	Airstrip Branch!	3.44	R	2	2015	I	F				I	X		X						
OK520620010010_00	Canadian River	42.75	R	2	2015	I	I				I	X		I			F			
OK520620010020_00	Lumpmouth Creek	9.50	R	3	2015	I	I				I	X		X						
OK520620010030_00	Bridgeport Creek, East	6.54	R	3	2015	X	X				X	X		X						
OK520620010040_00	Fire Canyon Creek	2.34	R	3	2015	X	X				X	X		X						
OK520620010050_00	Bridgeport Creek, West	6.81	R	3	2015	X	X				X	X		X						
OK520620010060_00	Lariat Creek	10.71	R	3	2016	I	X				I	X		X						
OK520620010070_00	White Canyon Creek	4.72	R	3	2015	X	X				X	X		X						
OK520620010090_00	American Horse Canyon Creek (American Hors	4.08	R	3	2015	X	X				X	X		X						
OK520620010100_00	American Horse Lake	100	L	2	2016	F	F				I	X		F						
OK520620010110_00	Squaw Creek	8.60	R	3	2015	X	X				X	X		X						

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OK520620010120_00	Bear Creek	6.29	R	**4a**	2015	F	F				I	X		**N**						
OK520620010130_00	Whirlwind Creek	9.20	R	3	2015	X	X				X	X		X						
OK520620010140_00	Fay Creek, East	5.80	R	3	2015	X	X				X	X		X						
OK520620010150_00	Thomas Creek	5.03	R	3	2015	X	X				X	X		X						
OK520620010160_00	Fay Creek, West	5.43	R	3	2015	X	X		X			X			X					
OK520620010170_00	Canadian River, Unnamed Trib of	4.34	R	3	2015	X	X				X	X		X						
OK520620020010_00	**Canadian River**	**37.78**	**R**	**5b**	**2016**	F	**N**				F	F		F			F			
OK520620020020_00	Rough Creek	12.03	R	3	2015	X	X				X	X		X						
OK520620020030_00	Big Baby Creek	8.76	R	3	2015	X	X				X	X		X						
OK520620020035_00	Yellow Bull Creek	4.49	R	3	2015	X	X				X	X		X						
OK520620020040_00	One Horse Creek	5.50	R	3	2015	X	X				X	X		X						
OK520620020050_00	Oakwood Creek	6.26	R	3	2015	X	X				X	X		X						
OK520620020060_00	**Flanders Creek**	**4.54**	**R**	**5b**	**2015**	I	**N**				I	X		X		I				
OK520620020070_00	**Fiddlers Creek**	**6.89**	**R**	**5b**	**2018**	I	**N**				I	X		X		I				
OK520620020080_00	**Squirrel Creek**	**9.80**	**R**	**5b**	**2018**	I	**N**				I	X		X		I				
OK520620020090_00	**Trail Creek**	**14.34**	**R**	**5b**	**2016**	F	**N**		F			X		**N**	X		F			
OK520620020100_00	Little Robe Creek	6.56	R	3	2015	I	I				I	X		X						
OK520620020110_00	Taloga Creek, East	6.72	R	3	2015	X	X				X	X		X						
OK520620020115_00	Aiko Creek	3.18	R	3	2015	X	X				X	X		X						
OK520620020120_00	Taloha Creek, West	7.78	R	3	2015	X	X				X	X		X						
OK520620020130_00	Hog Creek	3.07	R	3	2015	X	X				X	X		X						
OK520620020140_00	Rawhide Creek	12.45	R	2	2015	X	X				F	X		X						

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OK520620020150_00	Sand Creek	5.64	R	3	2015	X	X				X	X		X						
OK520620020160_00	Sorter Creek	8.80	R	3	2015	X	X				X	X		X						
OK520620030010_00	**Canadian River**	**38.09**	**R**	**5a**	**2015**	F	**N**				I	X		**N**			F			
OK520620030020_00	**Lone Creek**	**13.18**	**R**	**5b**	**2016**	F	**N**				F	X		**N**		I				
OK520620030030_00	Panther Creek	5.30	R	3	2015	X	X				X	X		X						
OK520620030040_00	Burnt Creek	6.89	R	3	2015	X	X				X	X		X						
OK520620030050_00	**Red Trail Creek**	**7.74**	**R**	**5b**	**2015**	F	**N**				I	X		**N**						
OK520620030060_00	Mouse Hollow Creek	3.30	R	3	2015	X	X				X	X		X						
OK520620030070_00	Bull Creek	6.15	R	3	2015	X	X				X	X		X						
OK520620030080_00	Teepee Creek	5.53	R	3	2015	I	X				I	X		X		I				
OK520620030090_00	Trail Creek	13.95	R	2	2015	X	X				X	X		X			F			
OK520620030100_00	Gyp Creek	7.79	R	3	2015	X	X				X	X		X		X				
OK520620030110_00	**Red Creek**	**11.82**	**R**	**5b**	**2016**	I	**N**				F	X		**N**		I				
OK520620030120_00	Powwow Creek	14.30	R	3	2015	X	X				X	X		X						
OK520620030130_00	Turkey Creek	15.96	R	2	2016	I	I				F	X		X		X				
OK520620030140_00	Kyser Creek	5.60	R	3	2015	X	X				X	X		X						
OK520620030150_00	Turkey Creek, South	8.19	R	3	2015	X	X				X	X		X		X				
OK520620030160_00	Oats Canyon Creek	2.84	R	3	2015	X	X				X	X		X						
OK520620030170_00	Spring Canyon Creek	2.25	R	3	2015	X	X				X	X		X						
OK520620030180_00	Piles Creek	3.42	R	3	2015	X	X				X	X		X						
OK520620030190_00	Harsha Canyon Creek	1.74	R	3	2015	X	X				X	X		X						
OK520620030200_00	Horse Canyon Creek (House Canyon)	3.44	R	3	2015	X	X				X	X		X						

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OK520620030210_00	Cinnamon Canyon Creek	2.53	R	3	2015	X	X				X	X		X						
OK520620040010_00	Canadian River	18.13	R	2	2015	X	X				X	X		X			F			
OK520620040020_00	Flying V Creek	11.74	R	3	2015	I	I				I	X		X						
OK520620040030_00	Devil's Creek	4.02	R	3	2015	X	X				X	X		X						
OK520620040040_00	Mott Creek	6.42	R	3	2015	X	X				X	X		X						
OK520620040050_00	**Hackberry Creek**	**14.33**	**R**	**5b**	**2016**	I	**N**				F	X		**N**		I				
OK520620040060_00	Sand Creek	6.99	R	3	2015	X	X				X	X		X						
OK520620040070_00	Richards Creek	3.11	R	3	2015	X	X				X	X		X						
OK520620040080_00	Hackberry Creek, West	2.05	R	3	2015	X	X				X	X		X						
OK520620040090_00	Black Bull Creek	3.08	R	3	2015	X	X				X	X		X						
OK520620040100_00	Coon Creek	3.75	R	3	2015	X	X				X	X		X						
OK520620040110_00	Spotted Deer Creek	2.54	R	3	2015	X	X				X	X		X						
OK520620040120_00	Sourdough Creek	5.59	R	3	2015	X	X				X	X		X						
OK520620040130_00	Boggy Creek	3.43	R	3	2015	X	X				X	X		X						
OK520620040140_00	Trail Branch	4.26	R	3	2015	X	X				X	X		X						
OK520620040150_00	S. A. Creek	5.03	R	3	2015	X	X				X	X		X						
OK520620040160_00	Bois d' Arc Creek	3.38	R	3	2015	X	X				X	X		X						
OK520620050010_00	Canadian River	33.95	R	2	2015	I	I				I	X		X			F			
OK520620050020_00	Wagon Creek	6.24	R	3	2015	X	X				X	X		X						
OK520620050030_00	West Creek	3.70	R	3	2015	X	X				X	X		X						
OK520620050040_00	Packsaddle Creek	1.79	R	3	2015	X	X				X	X		X						
OK520620050050_00	Packsaddle Lake	50	L	3	2016	X	X				X	X		X						

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OK520620050060_00	Cornell Creek	5.46	R	3	2015	X	X				X	X		X						
OK520620050070_00	Bull Creek	5.62	R	3	2015	X	X				X	X		X						
OK520620050080_00	Dugout Creek	6.80	R	3	2015	X	X				X	X		X						
OK520620050090_00	Cottonwood Creek	5.91	R	3	2015	X	X				X	X		X						
OK520620050100_00	Little Turkey Creek	3.79	R	3	2015	X	X				X	X		X						
OK520620050110_00	Mosquito Creek	4.63	R	3	2015	X	X				X	X		X		X				
OK520620050120_00	Mosquito Creek	6.56	R	2	2015	X	X		X			X			X		F			
OK520620050130_00	Arnett Creek	8.70	R	3	2015	X	X				X	X		X		X				
OK520620050140_00	Red Bluff Creek	12.30	R	3	2015	X	X				X	X		X		X				
OK520620050150_00	Red Bluff Creek, West	10.13	R	3	2015	X	X				X	X		X						
OK520620050160_00	Commission Creek	12.13	R	**4a**	2016	I	F				F	X		**N**		I				
OK520620050170_00	Coon Creek	0.62	R	3	2015	X	X				X	X		X						
OK520620050180_00	Hog Creek	7.56	R	3	2015	X	X				X	X		X						
OK520620050190_00	Coon Creek	7.36	R	3	2015	X	X				X	X		X						
OK520620050200_00	Lloyd Vincent Lake	160	L	2	2016	F	F				I	I		F						
OK520620050210_00	Hog Creek, West	3.76	R	3	2015	X	X				X	X		X						
OK520620050220_00	Little Robe Creek	10.71	R	3	2015	I	I				I	X		X						
OK520620060010_00	Deer Creek	55.58	R	**4a**	2016	I	F				F	X		**N**		F				
OK520620060020_00	Dead Woman Creek	5.95	R	3	2015	X	X				X	X		X						
OK520620060030_00	Cedar Canyon Creek	5.83	R	3	2015	X	X				X	X		X						
OK520620060040_00	Little Deep Creek	12.76	R	2	2016	I	I		F			X		I						
OK520620060050_00	Sportsman Creek	0.42	R	3	2015	X	X				X	X		X						

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OK520620060060_00	Sportsman Lake	100	L	3	2014	X	X				X	X		X						
OK520620060070_00	Little Deer Creek	14.83	R	3	2015	I	I				I	X		X		I				
OK520620060080_00	Horse Creek	17.64	R	3	2015	I	I				I	X		X		I				
OK520620060090_00	Putnam Creek	9.04	R	3	2015	X	X				X	X		X						
OK520700010020_00	**Eufaula Lake, Canadian River Deep Fork**	**16,453**	**L**	**5a**	**2016**	F	F				**N**	I		I		I				
OK520700010040_00	Onapa Lake (Checotah Municipal)	70	L	3	2016	X	X				X	X		X						
OK520700010080_00	**Gentry Creek**	**9.64**	**R**	**5a**	**2012**	F	F				**N**	X		**N**						
OK520700010090_00	Snake Creek	2.94	R	3	2012	X	X				X	X		X						
OK520700010110_00	**Grave Creek**	**13.94**	**R**	**5b**	**2018**	F	**N**				F	X		X		I				
OK520700010120_00	**Canadian River, Deep Fork**	**33.41**	**R**	**5c**	**2016**	I	X				**N**	X		X		X				
OK520700010130_00	Wolf Creek	2.91	R	3	2012	X	X				X	X		X						
OK520700010140_00	**Coal Creek**	**21.72**	**R**	**5a**	**2016**	I	X				**N**	X			X		F			
OK520700010150_00	Nichols Creek	2.69	R	3	2017	X	X				X	X		X						
OK520700010160_00	Nichols Lake	25	L	3	2016	X	X				X	X		X						
OK520700010170_00	**Wolf Creek**	**5.70**	**R**	**5a**	**2017**	I	X				**N**	X		X		X				✓
OK520700010170_10	Wolf Creek	7.00	R	3	2017	X	X				X	X		X		X				✓
OK520700010180_00	**Henryetta Lake**	**450**	**L**	**5a**	**2014**	F	F				**N**	I		F		I				✓
OK520700010190_00	Moore Creek	9.91	R	3	2017	X	X				X	X		X						
OK520700010200_00	Flag Creek	1.59	R	3	2017	X	X				X	X		X						
OK520700010210_00	Flag Lake	100	L	3	2016	X	X				X	X		X						
OK520700010220_00	**Montezuma Creek**	**22.39**	**R**	**5c**	**2017**	I	X				**N**	X		X						
OK520700010230_00	Burgess Creek	7.23	R	2	2017	X	X				X	X		X			F			

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OK520700010240_00	Fourmile Creek	8.44	R	3	2017	X	X				X	X		X						
OK520700010250_00	Cosseetta Creek (Cussetah)	13.28	R	3	2017	X	X				X	X		X						
OK520700010260_00	Long Branch	9.06	R	3	2017	X	X				X	X		X						
OK520700010270_00	Morris Creek	1.88	R	3	2017	X	X				X	X		X						
OK520700010280_00	Morris Lake	38	L	3	2016	X	X				X	X		X						
OK520700010290_00	Okmulgee Creek	14.69	R	2	2012	I	F				I	X		X		I				
OK520700010300_00	Honey Creek	7.02	R	3	2017	X	X				X	X		X						
OK520700010310_00	Cussetah Creek, Unnamed Trib of	3.36	R	3	2017	X	X		X						X					
OK520700020010_00	Canadian River, Deep Fork	4.26	R	3	2012	X	X				X	X		X		X				
OK520700020010_10	**Canadian River, Deep Fork**	**39.26**	**R**	**5a**	**2016**	F	F				**N**	**N**		**N**		I				
OK520700020020_00	Salt Creek	4.98	R	3	2017	X	X				X	X		X		X				
OK520700020040_00	**Okmulgee Lake**	**668**	**L**	**5a**	**2016**	F	F				**N**	F		F		F				✓
OK520700020050_00	Salt Creek	8.76	R	3	2017	X	X				X	X		X		X				✓
OK520700020060_00	**Dripping Springs Lake (Salt Creek Structure 1**	**1,150**	**L**	**5a**	**2016**	F	F				**N**	F		F		F				✓
OK520700020070_00	Negro Creek	2.62	R	3	2017	X	X				X	X		X						
OK520700020080_00	**Adams Creek**	**13.33**	**R**	**5a**	**2017**	I	I				**N**	X		X		X				
OK520700020090_00	Flat Rock Creek	3.48	R	3	2017	X	X				X	X		X		X				
OK520700020100_00	Beggs Creek, West	4.13	R	2	2017	X	X				X	X		X			F			
OK520700020110_00	Beggs Lake	80	L	3	2016	X	X				X	X		X						
OK520700020120_00	Beggs Creek, East	3.23	R	3	2017	X	X				X	X		X						
OK520700020130_00	New Beggs Lake	56	L	3	2016	X	X				X	X		X		X				
OK520700020140_00	Little Nuyaka Creek	9.02	R	3	2017	X	X				X	X		X						

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OK520700020150_00	**Salt Creek**	**12.59**	**R**	**5a**	**2017**	I	**N**				**N**	X		X						
OK520700020155_00	**Begger Creek!**	**3.61**	**R**	**5b**	**2018**	F	**N**				I	X		X		I				
OK520700020160_00	Tiger Creek	7.09	R	3	2017	X	X				X	X		X						
OK520700020170_00	Checkerboard Creek	7.88	R	3	2017	X	X				X	X		X						
OK520700020180_00	Park Wheeler Creek	5.42	R	3	2017	X	X				X	X		X						
OK520700020200_00	**Nuyaka Creek**	**21.72**	**R**	**5a**	**2017**	I	I				**N**	X		X		X				
OK520700020210_00	Brier Creek	5.75	R	3	2017	X	X				X	X		X						
OK520700020220_00	Little Brier Creek	2.93	R	3	2017	X	X				X	X		X						
OK520700020230_00	Sixshooter Creek	7.37	R	3	2017	X	X				X	X		X						
OK520700020240_00	Cow Creek	6.62	R	3	2017	X	X				X	X		X						
OK520700020250_00	Philadelphia Creek	5.55	R	3	2017	X	X				X	X		X						
OK520700020260_00	Hopper Creek	6.74	R	3	2017	X	X				X	X		X						
OK520700020270_00	Buckeye Creek	2.22	R	3	2017	X	X				X	X		X		X				
OK520700020280_00	Buckeye Creek	12.93	R	3	2017	X	X				X	X		X		X				✓
OK520700020290_00	Okemah Lake	761	L	2	2016	F	F				I	F		F		F				✓
OK520700020300_00	Yhola Creek	2.74	R	3	2017	X	X				X	X		X		X				✓
OK520700020310_00	Klutts Lake	40	L	3	2016	X	X				X	X		X						
OK520700030010_00	Canadian River, Deep Fork	46.83	R	2	2012	I	F				I	X		X		I				
OK520700030020_00	**Walnut Creek**	**14.71**	**R**	**5a**	**2017**	I	F				**N**	X		X						
OK520700030030_00	Little Walnut Creek	7.32	R	3	2017	X	X				X	X		X						
OK520700030040_00	Sandy Creek	5.21	R	2	2017	I	I				F	X		X						
OK520700030050_00	Sandy Creek, East Fork	5.48	R	3	2017	X	X				X	X		X						

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OK520700030060_00	Sandy Creek, West Fork	7.87	R	3	2017	X	X				X	X		X						
OK520700030070_00	Wolfe Creek	5.71	R	3	2017	X	X				X	X		X						
OK520700030080_00	Welty Creek	3.16	R	3	2017	X	X				X	X		X						
OK520700030090_00	Clifty Creek	2.62	R	3	2017	X	X				X	X		X						
OK520700030100_00	Salt Creek	22.35	R	**4a**	2016	F	F				F	X		**N**		I				
OK520700030110_00	Bachelor Creek	4.90	R	3	2017	X	X				X	X		X						
OK520700030120_00	Gypsy Creek	7.20	R	3	2017	X	X				X	X		X						
OK520700030130_00	Junction Creek	5.66	R	3	2017	X	X				X	X		X						
OK520700030140_00	Little Creek	2.45	R	3	2017	X	X				X	X		X						
OK520700030150_00	Pickle Creek	4.13	R	3	2017	X	X				X	X		X						
OK520700030160_00	Big Pond Creek	2.92	R	3	2017	X	X				X	X		X						
OK520700030170_00	Ritts Junction Creek	5.52	R	3	2017	X	X				X	X		X						
OK520700030180_00	Hickory Creek	1.53	R	3	2017	X	X				X	X		X						
OK520700030190_00	Sunny Slope Creek, North	4.29	R	3	2017	X	X				X	X		X						
OK520700030200_00	Sunny Slope Creek, South	1.59	R	3	2017	X	X				X	X		X						
OK520700030210_00	Milfay Creek	3.59	R	3	2017	X	X				X	X		X						
OK520700030220_00	**Camp Creek**	**5.14**	**R**	**5c**	**2016**	I	F				**N**	X		**N**		I				
OK520700030230_00	Camp Creek	5.86	R	3	2017	X	X				X	X		X		X				✓
OK520700030240_00	Stroud Lake	600	L	1	2016	F	F				F	F		F		F				✓
OK520700030250_00	Lilly Creek	4.43	R	3	2017	X	X				X	X		X						
OK520700030260_00	Spring Creek	6.85	R	3	2017	X	X				X	X		X						
OK520700030270_00	**Hilliby Creek**	**13.39**	**R**	**5a**	**2017**	I	I				**N**	X		X						

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OK520700030280_00	Harrican Creek	4.17	R	3	2017	X	X				X	X		X						
OK520700030290_00	Little Hilliby Creek	4.28	R	3	2017	X	X				X	X		X						
OK520700030300_00	Pettiquah Creek	11.11	R	3	2017	X	X				X	X		X						
OK520700030310_00	Uchee Creek	5.92	R	3	2017	X	X				X	X		X						
OK520700030320_00	Todd Creek	1.21	R	3	2017	X	X				X	X		X						
OK520700030330_00	Barby Creek	4.74	R	3	2017	X	X				X	X		X						
OK520700030340_00	Todd Lake	1	L	3	2016	X	X				X	X		X						
OK520700040010_00	Canadian River, Deep Fork	18.10	R	**4a**	2016	I	F				F	F		**N**		I				
OK520700040020_00	Dry Creek	28.27	R	**4a**	2016	I	F				**N**	X		**N**		I				
OK520700040030_00	Gray Horse Creek	4.46	R	3	2017	X	X		X			X			X					
OK520700040040_00	Wild Horse Creek	5.35	R	3	2017	X	X				X	X		X						
OK520700040050_00	Dosie Creek	8.72	R	3	2017	X	X				X	X		X						
OK520700040060_00	Chuckaho Creek	10.03	R	3	2017	X	X				X	X		X		X				
OK520700040070_00	Davenport Creek	1.38	R	3	2017	X	X				X	X		X						
OK520700040080_00	Davenport Lake	7	L	3	2016	X	X				X	X		X						
OK520700040090_00	Possum Trot Creek	3.48	R	3	2017	X	X				X	X		X						
OK520700040100_00	Ranch Creek	12.40	R	3	2017	X	X				X	X		X						
OK520700040110_00	Fourmile Creek	7.56	R	3	2017	X	X				X	X		X						
OK520700040120_00	Ranch Creek, North Branch	3.77	R	3	2017	X	X				X	X		X						
OK520700040130_00	Spring Creek	1.83	R	3	2017	X	X				X	X		X						
OK520700040140_00	Turkey Creek	1.43	R	3	2017	X	X				X	X		X						
OK520700040150_00	Beaver Creek	0.82	R	3	2017	X	X				X	X		X						

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OK520700040160_00	Beaver Creek, East	7.00	R	3	2017	X	X				X	X		X						
OK520700040170_00	Beaver Creek, West	7.91	R	3	2017	X	X				X	X			X					
OK520700040180_00	**Deer Creek**	**16.30**	**R**	**5c**	**2017**	I	X				**N**	X		X		X				
OK520700040190_00	Robinson Creek	19.62	R	3	2017	X	X				X	X		X		X				
OK520700040200_00	Warsham Creek	4.52	R	3	2017	X	X				X	X		X						
OK520700040210_00	Sand Creek	3.63	R	3	2017	X	X				X	X		X						
OK520700040220_00	Prague Lake	225	L	2	2016	F	F				F	I		F						
OK520700040230_00	Clark Creek	1.90	R	3	2017	X	X				X	X		X						
OK520700040240_00	Clark Lake	269	L	3	2016	X	X				X	X		X						
OK520700040250_00	Browns Lake	34	L	3	2016	X	X				X	X		X						
OK520700040260_00	**Quapaw Creek**	**26.81**	**R**	**5a**	**2016**	F	F				F	X		**N**		I				
OK520700040270_00	Sparks Creek	0.92	R	3	2017	X	X				X	X		X						
OK520700040280_00	Sparks Lake	1	L	3	2016	X	X				X	X		X		X				
OK520700040290_00	Hogshooter Creek	3.27	R	3	2017	X	X				X	X		X						
OK520700040300_00	Breakfast Creek	4.66	R	3	2017	X	X				X	X		X						
OK520700040310_00	Spring Creek	4.27	R	3	2017	X	X				X	X		X						
OK520700040320_00	Little Sand Creek	7.24	R	3	2017	X	X				X	X		X						
OK520700040330_00	Clear Creek	2.40	R	3	2017	X	X				X	X		X						
OK520700040340_00	Sand Creek	5.40	R	3	2017	X	X				X	X		X						
OK520700040350_00	Quapaw Creek, South	3.76	R	2	2017	X	X				F	X		X		X				✓
OK520700040360_00	Quapaw Creek, South	5.31	R	3	2017	X	X				X	X		X		X				✓
OK520700040370_00	**Meeker Lake**	**250**	**L**	**5a**	**2016**	F	F				**N**	F		F		F				✓

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OK520700040380_00	Coon Creek	3.71	R	3	2017	X	X				X	X		X						
OK520700040390_00	Wildhorse Creek	5.68	R	3	2017	X	X				X	X		X						
OK520700040400_00	Brush Creek	7.41	R	3	2017	X	X				X	X		X						
OK520700040410_00	Robinson Creek, Unnamed Trib of	3.09	R	3	2017	X	X				X	X		X						
OK520700050010_00	**Canadian River, Deep Fork**	**25.60**	**R**	**5c**	**2016**	F	F				**N**	X		X		I				
OK520700050020_00	Bellcow Creek	5.75	R	**4a**	2014	I	X				I	X		**N**		X				
OK520700050025_00	**Bellcow Lake**	**1,153**	**L**	**5a**	**2016**	F	F				**N**	F		F		F				
OK520700050030_00	Bellcow Creek	8.49	R	3	2017	X	X				X	X		X		X				
OK520700050040_00	Bellcalf Creek	1.14	R	3	2017	X	X				X	X		X						
OK520700050050_10	Bellcalf Creek	1.94	R	3	2017	X	X				X	X		X		X				✓
OK520700050060_00	**Chandler Lake**	**129**	**L**	**5a**	**2016**	F	F				**N**	F		F		**N**				✓
OK520700050070_00	Otoe Creek	2.79	R	3	2017	X	X				X	X		X						
OK520700050080_00	**Bellcow Creek, North**	**4.56**	**R**	**5c**	**2012**	**N**	X				**N**	X		X						
OK520700050090_00	Kickapoo Creek	6.36	R	3	2017	X	X				X	X		X		X				
OK520700050100_00	Rat Creek	5.09	R	3	2017	X	X				X	X		X						
OK520700050110_00	Pecan Creek	7.11	R	3	2017	X	X				X	X		X						
OK520700050120_00	Spring Creek	8.16	R	3	2017	X	X				X	X		X						
OK520700050130_00	Eagle Creek	7.70	R	3	2017	X	X				X	X		X						
OK520700050140_00	**Captain Creek**	**4.40**	**R**	**5a**	**2012**	F	F				I	X		**N**		F				
OK520700050150_00	Captain Creek, East	7.69	R	3	2017	X	X				X	X		X		X				
OK520700050160_00	Captain Creek, West	8.74	R	3	2017	X	X				X	X		X						
OK520700050170_00	Bear Creek	26.06	R	3	2017	X	X				X	X		X		X				

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OK520700050180_00	Grant Creek	3.29	R	3	2017	X	X				X	X		X						
OK520700050190_00	Blue Creek	3.33	R	3	2017	X	X				X	X		X						
OK520700050200_00	Opossum Creek	7.37	R	**4a**	2014	F	F				**N**	X		I						
OK520700050210_00	Fall Creek	7.08	R	3	2017	X	X				X	X		X						
OK520700050220_00	Wildhorse Creek	9.79	R	3	2017	X	X				X	X		X						
OK520700050230_00	Wildhorse Creek, East Fork	2.38	R	3	2017	X	X				X	X		X						
OK520700050240_00	Wildhorse Creek, West Fork	3.58	R	3	2017	X	X				X	X		X						
OK520700050250_00	**Chandler Lake, NW Trib!**	**2.36**	**R**	**5a**	**2012**	**N**	X				**N**	X		X		**N**				✓
OK520700050260_00	Bellcow Creek, Unnamed Tributary of	1.51	R	3	2017	X	X		X						X					
OK520700050270_00	**West Captain Creek, Unnamed Trib of**	**6.26**	**R**	**5c**	**2017**	I	X				**N**	X		X						
OK520700060010_00	Little Deep Fork Creek	20.30	R	2	2016	I	F				I	I		I						
OK520700060020_00	Comelys Branch	3.74	R	3	2017	X	X				X	X		X						
OK520700060030_00	Frank Henry Creek	4.68	R	3	2017	X	X				X	X		X						
OK520700060040_00	McKennon Creek	2.50	R	3	2017	X	X				X	X		X						
OK520700060050_00	**Browns Creek**	**13.93**	**R**	**5a**	**2017**	I	I				**N**	X		X		X				
OK520700060060_00	Turkey Creek	10.72	R	2	2016	I	I				F	X		X						
OK520700060070_00	Chicken Creek	8.07	R	3	2017	X	X				X	X		X						
OK520700060080_00	Skull Creek	7.41	R	3	2017	I	I				I	X		X						
OK520700060090_00	Morgan Creek	3.00	R	3	2017	X	X				X	X		X						
OK520700060100_00	Little Deep Fork Creek	1.82	R	3	2017	X	X				X	X		X						
OK520700060110_00	Sand Creek	8.90	R	3	2017	I	I				I	X		X						
OK520700060120_00	Rock Creek	8.15	R	2	2017	I	F				I	X		X						

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OK520700060130_00	Little Deep Fork Creek	4.56	R	2	2016	X	X		F			X			X	X				
OK520700060130_05	Little Deep Fork Creek	0.31	R	3	2017	X	X				X	X		X		X				
OK520700060130_10	**Little Deep Fork Creek**	**24.39**	**R**	**5a**	**2012**	F	F				**N**	X		**N**		I				
OK520700060140_00	**Catfish Creek**	**9.94**	**R**	**5b**	**2017**	I	**N**				**N**	X		X		X				
OK520700060150_00	Massena Creek	0.51	R	3	2017	X	X				X	X		X						
OK520700060160_00	Massena Lake	90	L	3	2016	X	X				X	X		X						
OK520700060170_00	Little Catfish Creek	6.51	R	3	2017	X	X				X	X		X						
OK520700060180_00	Swan Creek	2.94	R	3	2017	X	X				X	X		X						
OK520700060190_00	Spring Creek	2.23	R	3	2017	I	I				I	X		X						
OK520700060200_00	Spring Creek, East	8.73	R	3	2017	I	I				I	X		X						
OK520700060210_00	**Spring Creek, West**	**7.28**	**R**	**5b**	**2018**	I	**N**				I	X		X		I				
OK520700060220_00	Little Deep Fork Creek, Unnamed Tributary of	2.08	R	3	2017	X	X		X						X					
OK520710010010_00	**Canadian River, Deep Fork**	**7.70**	**R**	**5a**	**2016**	I	F				**N**	X		**N**		I				
OK520710010020_00	Smith Creek	6.37	R	3	2017	X	X		X			X		X		X				
OK520710010030_00	**Coon Creek**	**12.47**	**R**	**5a**	**2017**	I	I				**N**	X		I						
OK520710010040_00	Hiwassee Creek	2.98	R	3	2017	X	X				X	X		X						
OK520710010050_00	Hiwassee Lake	132	L	3	2016	X	X				X	X		X						
OK520710010060_00	Soldier Creek	4.82	R	3	2017	X	X				I	X		X						
OK520710010070_00	Opossum Creek	3.49	R	3	2017	X	X				X	X		X						
OK520710010080_00	Canadian River, Deep Fork	0.91	R	3	2017	X	X				X	X		X		X				
OK520710010090_00	Coffee Creek	4.17	R	2	2017	I	F		I			X		X		I				
OK520710010090_10	Coffee Creek	1.28	R	3	2017	X	X				X	X		X		X				

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OK520710010100_00	Coffee Creek	4.87	R	3	2017	I	I				I	X		X		X				
OK520710010110_00	Cowbell Creek	4.57	R	3	2017	X	X				X	X		X						
OK520710010120_00	Peavine Creek	4.55	R	3	2017	X	X				X	X		X						
OK520710020010_00	Canadian River, Deep Fork	4.14	R	3	2017	X	X				X	X		X		X				✓
OK520710020020_00	**Arcadia Lake**	**1,820**	**L**	**5a**	**2014**	F	F				**N**	X		F		**N**				✓
OK520710020030_00	**Spring Creek**	**5.27**	**R**	**5a**	**2017**	I	I				**N**	X		**N**		I				✓
OK520710020040_00	Tinker Creek	1.92	R	3	2017	X	X				X	X		X		X				✓
OK520710020050_00	Wynn Creek	5.59	R	3	2017	X	X				X	X		X		X				✓
OK520710020060_00	**Canadian River, Deep Fork**	**10.07**	**R**	**5a**	**2016**	F	F				I	X		**N**		I				✓
OK520710020070_00	Britton Creek	4.72	R	3	2017	X	X				X	X		X		X				✓
OK520710020075_00	Deep Fork, Unnamed Tributary of	3.32	R	3	2017	X	X				X	X		X		X				✓
OK520710020080_00	Aluma Creek	1.33	R	3	2017	X	X				X	X		X		X				✓
OK520710020090_00	Aluma Lake	13	L	3	2016	X	X				X	X		X		X				✓
OK520710020100_00	Forest Park Creek	2.69	R	3	2017	X	X				X	X		X		X				✓
OK520710020110_00	Northeast Creek	2.46	R	3	2017	X	X				X	X		X		X				✓
OK520710020120_00	Northeast Lake (Zoo)	29	L	3	2016	X	X				X	X		X		X				✓
OK520710020130_00	Springlake Creek	2.07	R	3	2017	X	X				X	X		X		X				✓
OK520710020140_00	Guy James Creek	1.97	R	3	2017	X	X				X	X		X		X				✓
OK520710020150_00	Nichols Creek	0.97	R	3	2017	X	X				X	X		X		X				✓
OK520710020160_00	Belle Isle Creek	2.23	R	3	2017	X	X				X	X		X		X				✓
OK520800010010_00	**Little River**	**24.80**	**R**	**5a**	**2016**	F	F				**N**	F		**N**		I				
OK520800010030_00	Bemore Creek	1.92	R	3	2017	X	X				X	X		X		X				✓

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OK520800010040_00	**Holdenville Lake**	**550**	**L**	**5a**	**2014**	F	F				**N**	F		F		**N**				✓
OK520800010050_00	**Bird Creek**	**13.81**	**R**	**5a**	**2016**	I	**N**		**N**			X			F					
OK520800010055_00	**Kight Creek**	**4.55**	**R**	**5b**	**2018**	F	**N**				I	X		X		I				
OK520800010060_00	**Cudjo Creek**	**5.88**	**R**	**5a**	**2018**	F	**N**				**N**	X		X		I				
OK520800010062_00	**Bear Cub Creek**	**1.05**	**R**	**5c**	**2012**	I	F				**N**	X		X						
OK520800010070_00	Sand Creek	5.93	R	3	2017	X	X				X	X		X						
OK520800010080_00	Rock Creek	4.75	R	3	2017	X	X				X	X		X						
OK520800010090_00	**Little River**	**28.45**	**R**	**5b**	**2016**	I	**N**				F	X		X		I				
OK520800010110_00	Tate Mountain Creek	3.57	R	3	2017	X	X				X	X		X						
OK520800010120_00	Trib 9!	7.11	R	3	2012	X	X				X	X		X						
OK520800010130_00	**Little River**	**17.11**	**R**	**5b**	**2016**	I	**N**				F	X		X		I				
OK520800010140_00	Mini Creek	2.96	R	3	2017	X	X				X	X		X						
OK520800010150_00	**Bird Creek, Unnamed Tributary of**	**5.15**	**R**	**5c**	**2017**	X	X				**N**	X			X					
OK520800010160_00	Rogers Creek	2.41	R	3	2017	X	X				X	X		X						
OK520800010170_00	Brier Creek	6.36	R	3	2017	X	X				X	X		X						
OK520800010180_00	Tyner Creek	3.38	R	3	2017	X	X				X	X		X						
OK520800010190_00	Tecumseh Creek, South	5.48	R	3	2012	X	X				X	X		X						
OK520800010200_00	Little River, Unnamed Tributary of	1.95	R	3	2012	X	X		X						X					
OK520800020010_00	Little River	20.98	R	3	2012	X	X				X	X		X		X				
OK520800020020_00	Dance Creek	9.92	R	3	2012	X	X				X	X		X						
OK520800020030_00	Morvin Creek	3.66	R	3	2012	X	X				X	X		X						
OK520800020040_00	Sand Creek	3.34	R	3	2012	X	X				X	X		X						

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OK520800020050_00	Coon Creek	5.14	R	3	2012	X	X				X	X		X						
OK520800020060_00	Council Creek	7.26	R	3	2012	X	X				X	X		X						
OK520800020070_00	Jim Creek	7.73	R	3	2017	X	X				X	X		X						
OK520800020080_00	**Pecan Creek**	**10.80**	**R**	**5a**	**2017**	**N**	I				**N**	X		I						
OK520800020090_00	Bullfrog Creek	5.05	R	3	2017	X	X				X	X		X						
OK520800020100_00	Spring Creek	8.33	R	3	2017	X	X				X	X		X						
OK520800020110_00	Bourbonais Creek	4.49	R	3	2017	X	X				X	X		X						
OK520800020120_00	Roulette Creek	5.34	R	3	2017	X	X				X	X		X						
OK520800020130_00	Prairie Creek	7.92	R	3	2017	X	X				X	X		X						
OK520800030010_00	**Salt Creek**	**39.02**	**R**	**5a**	**2016**	I	**N**				**N**	X		**N**		I				
OK520800030020_00	Sandy Creek	6.03	R	2	2012	I	F				I	X		X		I				
OK520800030030_00	Mud Creek	8.72	R	3	2017	X	X				X	X		X						
OK520800030040_00	Maud Creek	4.49	R	3	2017	X	X				X	X		X						
OK520800030060_00	Katy Lake	11	L	3	2016	X	X				X	X		X						
OK520800030070_00	**Bruno Creek**	**10.32**	**R**	**5b**	**2018**	I	**N**				I	X		X		I				
OK520800030080_00	**Popshego Creek**	**4.38**	**R**	**5b**	**2018**	F	**N**				I	X		X		**N**				
OK520800030090_00	Marcum Creek	5.57	R	3	2017	X	X				X	X		X						
OK520800030100_00	Sand Creek	4.47	R	3	2017	X	X				X	X		X						
OK520800030110_00	Box Creek	2.66	R	3	2017	X	X				X	X		X						
OK520800030120_00	**Blacksmith Creek**	**5.99**	**R**	**5b**	**2018**	I	**N**				I	X		X		I				
OK520800030130_00	Opossum Creek	4.48	R	3	2017	X	X				X	X		X						
OK520800030140_00	Delaware Creek	2.12	R	3	2017	X	X				X	X		X						

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OK520800030150_00	Cottonwood Creek	5.58	R	3	2017	X	X				X	X		X						
OK520800030160_00	Wolf Creek	2.29	R	3	2017	X	X				X	X		X						
OK520800030170_00	Bruno Creek, Unnamed Trib of	3.12	R	3	2017	X	X				X	X		X						
OK520810000010_00	Little River	1.27	R	3	2017	X	X				X	X		X		X				✓
OK520810000020_00	Thunderbird Lake	6,070	L	**4a**	2016	I	F				**N**	F		F		**N**				✓
OK520810000030_00	**Hog Creek**	**11.89**	**R**	**5a**	**2016**	I	F				**N**	X		**N**		X				✓
OK520810000040_00	**Hog Creek, West Branch**	**3.69**	**R**	**5a**	**2012**	I	I				**N**	X		I		X				✓
OK520810000050_00	Clear Creek	3.70	R	3	2012	X	X				X	X		X		X				✓
OK520810000060_00	Dave Blue Creek	7.16	R	3	2012	X	X				X	X		X		X				✓
OK520810000070_00	Jim Blue Creek	4.40	R	3	2012	X	X				X	X		X		X				✓
OK520810000080_00	**Little River**	**18.64**	**R**	**5a**	**2016**	X	**N**				**N**	X		**N**		X				✓
OK520810000090_00	**Rock Creek**	**5.99**	**R**	**5a**	**2016**	X	F				I	X		**N**		X				✓
OK520810000100_00	**Elm Creek**	**1.44**	**R**	**5a**	**2012**	F	**N**				**N**	X		**N**		F				✓
OK520810000110_00	**Elm Creek, East**	**2.40**	**R**	**5a**	**2012**	I	I				**N**	X		I		X				✓
OK520810000130_00	**Stanley Draper Lake**	**2,900**	**L**	**5a**	**2016**	F	F				**N**	**N**		F		F				
OK520810000140_00	**Elm Creek, West**	**8.00**	**R**	**5a**	**2016**	X	F				F	X		**N**		X				✓
OK520810000150_00	Kitchen Creek	5.41	R	3	2012	X	X				X	X		X		X				✓
OK520810000160_00	Kitchen Lake	25	L	3	2016	X	X				X	X		X						
OK520810000170_00	Little River, North Fork	8.94	R	2	2016	I	F				F	X		X		X				✓
OK520810000175_00	**Moore Creek**	**4.02**	**R**	**5b**	**2016**	F	**N**				I	X		X		F				✓
OK520810000180_00	Mussel Shoals Lake Creek	0.63	R	3	2016	X	X				X	X		X		X				✓

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OK620900010020_00	**Keystone Lake, Cimarron River Arm, Lower**	**4,673**	**L**	**5a**	**2016**	F	F				**N**	I		I		I				
OK620900010030_00	Salt Creek	3.51	R	3	2016	X	X				X	X		X						
OK620900010040_00	Little Salt Creek	4.37	R	3	2016	X	X				X	X		X						
OK620900010050_00	Mannford Reservoir	268	L	2	2016	F	I				I	I		I						
OK620900010060_00	Mannford Creek	2.32	R	3	2016	X	X				X	X		X						
OK620900010070_00	Fish Creek	2.61	R	3	2016	X	X				X	X		X						
OK620900010090_00	**Keystone Lake, Cimarron River Arm, Upper**	**5,550**	**L**	**5a**	**2016**	I	F				**N**	I		I		I				
OK620900010100_00	House Creek	9.10	R	3	2016	X	X				X	X		X						
OK620900010110_00	Terlton Creek	4.63	R	3	2016	X	X				X	X		X						
OK620900010120_00	Hallett Creek	5.50	R	3	2016	X	X				X	X		X						
OK620900010130_00	Jennings Creek	1.73	R	3	2016	X	X				X	X		X						
OK620900010140_00	Cottonwood Creek	5.83	R	3	2016	I	I				I	X		X		I				
OK620900010150_00	Rocky Canyon Creek	4.11	R	3	2016	X	X				X	X		X						
OK620900010160_00	Sand Creek	5.95	R	3	2016	X	X				X	X		X						
OK620900010170_00	Cimarron River	1.54	R	2	2016	I	F				I	X		X			F			
OK620900010170_10	**Cimarron River**	**26.58**	**R**	**5a**	**2016**	I	F				**N**	**N**		**N**			F			
OK620900010180_00	Lagoon Creek	18.55	R	**4a**	2016	F	F				F	X		**N**						
OK620900010190_00	Kenny Creek	6.04	R	3	2016	X	X				X	X		X						
OK620900010200_00	Crystal Creek	4.78	R	3	2016	X	X				X	X		X						
OK620900010210_00	Maramel Creek, South	5.07	R	3	2016	X	X				X	X		X						
OK620900010220_00	Buckeye Creek	11.42	R	2	2016	I	F				I	X		I						
OK620900010230_00	Dry Creek	9.52	R	2	2016	I	F				I	X		X						

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OK620900010240_00	Deer Creek	6.98	R	3	2016	X	X				X	X		X						
OK620900010250_00	Tiger Creek	9.68	R	2	2016	F	F				F	X		X						
OK620900010260_00	Little Tiger Creek	4.50	R	3	2016	X	X				X	X		X						
OK620900010280_00	Tydol Lake (Tidal)	5	L	3	2016	X	X				X	X		X						
OK620900010290_00	**Euchee Creek**	**9.56**	**R**	**5a**	**2016**	I	F				**N**	X		**N**			F			
OK620900010290_10	Euchee Creek	12.40	R	2	2016	X	X				X	X			X		F			
OK620900010300_00	Sand Creek	8.39	R	3	2016	I	I				I	X		X		I				
OK620900010310_00	**Cottonwood Creek**	**6.26**	**R**	**5a**	**2016**	I	X				**N**	X		**N**			F			
OK620900010320_00	Wildhorse Creek	8.09	R	2	2016	I	I				F	X		X		I	F			
OK620900010330_00	Turkey Creek	5.95	R	3	2016	X	X				X	X		X						
OK620900010340_00	Rattlesnake Creek	4.21	R	3	2016	X	X				X	X		X						
OK620900010350_00	Turkey Creek	3.88	R	3	2016	X	X				X	X		X						
OK620900010360_00	Skull Creek	8.69	R	2	2016	I	I				I	I		X			F			
OK620900010370_00	Cross Bones Creek	2.30	R	3	2016	X	X				X	X		X						
OK620900010380_00	Mud Creek	6.49	R	3	2016	X	X				X	X		X						
OK620900010390_00	Yale Creek	3.23	R	3	2016	X	X				X	X		X						
OK620900020010_00	Cimarron River	20.70	R	2	2016	I	F				I	X		X			F			
OK620900020020_00	Salt Creek	14.71	R	**4a**	2016	F	F				F	X		**N**		I				
OK620900020030_00	Eagle Creek	7.46	R	3	2016	X	X				X	X		X						
OK620900020040_00	Short Creek	3.64	R	3	2016	X	X				X	X		X						
OK620900020050_00	**Council Creek**	**21.94**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		I				
OK620900020060_00	Feather Creek	6.01	R	2	2016	X	X				F	X		X						

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OK620900020070_00	Hog Hollow Creek	2.61	R	3	2016	X	X				X	X		X						
OK620900020080_00	Long Branch	5.51	R	3	2016	X	X				X	X		X						
OK620900020090_00	Cabin Creek	3.64	R	3	2016	X	X				X	X		X						
OK620900020100_00	Big Creek	2.17	R	3	2016	X	X				X	X		X		X				
OK620900020110_00	Big Creek	7.99	R	3	2016	X	X				X	X		X		X				✓
OK620900020120_00	**Cushing Lake**	**591**	**L**	**5a**	**2014**	I	F				**N**	F		F		F				✓
OK620900020130_00	Elm Creek	5.56	R	3	2016	X	X				X	X		X		X				✓
OK620900020140_00	Ghost Hollow Creek	2.23	R	3	2016	X	X				X	X		X						
OK620900030010_00	**Cimarron River**	**42.09**	**R**	**5a**	**2016**	I	F				**N**	**N**		**N**			F			
OK620900030030_00	Brush Creek	6.55	R	3	2016	X	X				X	X		X						
OK620900030040_00	Sand Creek	8.24	R	3	2016	X	X		X			X			X					
OK620900030050_00	Sand Creek, East Fork	4.01	R	3	2016	X	X				X	X		X						
OK620900030060_00	Headquarters Creek	16.42	R	3	2016	X	X				X	X		X						
OK620900030070_00	Tryon Creek	3.19	R	3	2016	X	X				X	X		X						
OK620900030080_00	Dugout Creek	13.58	R	**4a**	2014	F	F				F	X		**N**		I				
OK620900030090_00	Lost Creek	11.56	R	2	2016	X	X				F	X		X						
OK620900030100_00	Perkins Creek	2.14	R	3	2016	X	X				X	X		X						
OK620900030110_00	Corduroy Creek	8.75	R	3	2016	X	X				X	X		X						
OK620900030120_00	Wild Horse Creek	15.88	R	3	2016	I	I				I	X		X						
OK620900030130_00	Walnut Creek	8.75	R	3	2016	X	X				X	X		X						
OK620900030150_00	Fitzgerald Creek	17.09	R	3	2016	X	X				X	X		X		X				
OK620900030160_00	Soldier Creek	6.39	R	3	2016	X	X				X	X		X						

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OK620900030170_00	Langston Creek	2.61	R	3	2016	X	X				X	X		X		X				✓
OK620900030180_00	Langston Lake	304	L	1	2016	F	F				F	F		F		F				✓
OK620900030190_00	Indian Meridian Creek	8.23	R	3	2016	I	I				I	X		X		I				
OK620900030200_00	Pleasant Valley Creek	2.31	R	3	2016	X	X				X	X		X						
OK620900030210_00	Clear Creek	10.04	R	3	2016	I	I				I	X		X		I				
OK620900030220_00	Antelope Creek	8.49	R	3	2016	X	X				X	X		X						
OK620900030230_00	Beaver Creek	12.65	R	**4a**	2016	I	F				**N**	X		**N**		I				
OK620900030240_00	Mulhall Creek	7.75	R	3	2016	I	I				I	X		X		I				
OK620900030250_00	Beaver Creek, East	12.55	R	2	2016	I	F				I	X		X		I				
OK620900030260_00	**Beaver Creek, West**	**13.21**	**R**	**5a**	**2016**	I	F				**N**	X		**N**		I				
OK620900030270_00	Beaver Creek, Middle	10.04	R	3	2018	I	I				I	X		X		I				
OK620900040010_00	Stillwater Creek	1.58	R	3	2016	I	X				I	X		X		X				
OK620900040020_00	Spring Creek	4.61	R	3	2016	X	X				X	X		X						
OK620900040030_00	Deer Creek	3.83	R	3	2016	X	X				X	X		X						
OK620900040040_00	Stillwater Creek	3.53	R	**4a**	2016	F	F				**N**	X		**N**		I				
OK620900040050_00	**Little Stillwater Creek**	**13.91**	**R**	**5a**	**2016**	I	I				F	X		X		**N**				
OK620900040060_00	Mehan Creek	1.23	R	3	2016	X	X				X	X		X						
OK620900040070_00	Stillwater Creek	5.85	R	2	2016	X	X		F			X		X		X	F			
OK620900040070_10	**Stillwater Creek**	**16.43**	**R**	**5a**	**2016**	F	F		**N**			X			I	I	F			
OK620900040080_00	Fairgrounds Creek	3.96	R	3	2016	X	X				X	X		X						
OK620900040090_00	Brush Creek	1.92	R	3	2016	X	X		X			X			X					
OK620900040100_00	Brush Creek, East	9.65	R	3	2016	X	X				X	X		X						

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OK620900040110_00	Yost Lake Creek	1.52	R	3	2016	X	X				X	X		X						
OK620900040120_00	Yost Lake	26	L	3	2016	X	X				X	X		X						
OK620900040130_00	Brush Creek, West	9.82	R	3	2016	X	X				X	X		X						
OK620900040140_00	Boomer Creek	2.28	R	3	2016	X	X				X	X		X		X				
OK620900040150_00	Sanborn-Hazen Lake Creek	3.59	R	3	2016	X	X				X	X		X						
OK620900040160_00	Hazen Lake	1	L	3	2016	X	X				X	X		X						
OK620900040170_00	Sanborn Lake	1	L	3	2016	X	X				X	X		X						
OK620900040180_00	Boomer Creek	6.49	R	2	2016	X	X				F	X		X		X				✓
OK620900040190_00	**Boomer Lake**	**260**	**L**	**5a**	**2014**	F	F				**N**	**N**		F		**N**				✓
OK620900040195_00	Duck Creek	3.06	R	3	2016	X	X				X	X		X						
OK620900040200_00	Cow Creek	8.26	R	2	2016	X	X				F	X		X						
OK620900040210_00	Dry Creek	7.41	R	3	2016	X	X				X	X		X						
OK620900040220_00	Stillwater Creek, North	3.76	R	3	2016	X	X				X	X		X		X				✓
OK620900040230_00	Stillwater Creek, North	6.80	R	3	2016	X	X				X	X		X		X				✓
OK620900040240_00	**McMurtry Lake**	**1,155**	**L**	**5a**	**2016**	F	F				**N**	F		F		F				✓
OK620900040250_00	Harrington Creek	4.41	R	3	2016	X	X				X	X		X						
OK620900040260_00	Harrington Creek Lake (Stillwater Creek site 4	1	L	3	2016	X	X				X	X		X						
OK620900040270_00	Stillwater Creek	2.15	R	2	2016	X	X		X			X			X	X	F			
OK620900040270_10	**Stillwater Creek**	**6.42**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		X				✓
OK620900040280_00	**Carl Blackwell Lake**	**3,370**	**L**	**5a**	**2016**	F	F				**N**	F		F		**N**				✓
OK620900040290_00	Hunt Creek	3.16	R	3	2016	X	X				X	X		X		X				✓
OK620900040300_00	Little Stillwater Creek	4.67	R	3	2016	X	X				X	X		X		X				✓

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OK620910010010_00	**Cimarron River**	**8.33**	**R**	**5a**	**2016**	I	F				**N**	F		**N**			F			
OK620910010010_10	Cimarron River	28.89	R	2	2016	X	X				X	X		X			F			
OK620910010030_00	Lawrie Creek	2.75	R	3	2016	X	X				X	X		X						
OK620910010040_00	Pin Creek	8.26	R	3	2016	I	I				I	X		X						
OK620910010060_00	Gar Creek	7.58	R	3	2016	I	I				I	X		X						
OK620910010070_00	Pawnee Creek	9.29	R	3	2016	X	X				X	X		X						
OK620910010080_00	Cox Creek	5.54	R	3	2016	X	X				X	X		X						
OK620910010090_00	Boggy Creek	4.86	R	3	2016	X	X				X	X		X						
OK620910010100_00	Crescent Creek	3.88	R	3	2016	X	X				X	X		X						
OK620910010110_00	Cedar Cove Lake	2	L	3	2016	X	X				X	X		X						
OK620910010120_00	Lattawanna Lake	16	L	3	2016	X	X				X	X		X						
OK620910010130_00	Campbell Creek	13.63	R	3	2016	I	I				I	X		X						
OK620910010140_00	Walnut Creek	12.66	R	3	2016	X	X				X	X		X						
OK620910010150_00	Sooner Trend Creek	8.03	R	3	2016	I	I				I	X		X						
OK620910010160_00	Bird Creek	6.94	R	3	2016	I	I				I	X		X						
OK620910020010_00	**Cimarron River**	**17.84**	**R**	**5a**	**2016**	F	F				**N**	F		**N**			F			
OK620910020010_10	**Cimarron River**	**41.63**	**R**	**5a**	**2016**	F	**N**				**N**	F		**N**			F			
OK620910020040_00	**Cooper Creek**	**40.27**	**R**	**5a**	**2016**	F	**N**				**N**	X		**N**		I				
OK620910020050_00	Oneida Creek	7.07	R	3	2016	X	X				X	X		X						
OK620910020060_00	Felter Branch	2.50	R	3	2016	X	X				X	X		X						
OK620910020070_00	Willow Creek	7.08	R	3	2016	X	X				X	X		X						
OK620910020080_00	Preacher Creek	8.30	R	3	2016	I	I				I	X		X						

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OK620910020090_00	Pepper Creek	5.99	R	3	2016	X	X				X	X		X						
OK620910020092_00	Sweet Alley	5.98	R	3	2016	X	X				X	X		X						
OK620910020100_00	**Salt Creek**	**4.43**	**R**	**5a**	**2016**	I	**N**				**N**	F			I		F			
OK620910020100_10	Salt Creek	24.53	R	2	2016	I	I		I			I			I		F			
OK620910020110_00	Spring Creek	22.89	R	3	2016	X	X				X	X		X		X				
OK620910020115_00	Spring Creek, Unnamed Trib of	4.68	R	3	2016	X	X		X						X					
OK620910020120_00	Hitchcock Creek	12.36	R	3	2016	X	X		X						X					
OK620910020140_00	Hitchcock Creek, West	2.68	R	3	2016	X	X				X	X		X						
OK620910020150_00	Bitter Creek	5.53	R	3	2016	X	X				X	X		X						
OK620910020160_00	Cat Canyon Creek	3.44	R	3	2016	X	X				X	X		X						
OK620910020170_00	Bitter Creek	4.22	R	3	2016	X	X				X	X		X						
OK620910020180_00	Watonga Lake	55	L	3	2016	X	X				X	X		X						
OK620910020190_00	Boecher Lake	12	L	3	2016	X	X				X	X		X						
OK620910020200_00	Ruby Mill Canyon Creek	4.31	R	3	2016	X	X				X	X		X						
OK620910020210_00	Hoyle Creek	25.12	R	3	2016	I	I				I	X		X		X				
OK620910020230_00	Crystal Lake	1	L	3	2016	X	X				X	X		X						
OK620910020240_00	Silver Lake	1	L	3	2016	X	X				X	X		X						
OK620910020250_00	**Deep Creek**	**25.42**	**R**	**5a**	**2016**	I	**N**				**N**	X		**N**		I				
OK620910020260_00	Isabella Creek	4.49	R	3	2016	X	X				X	X		X						
OK620910020270_00	**Elm Creek**	**14.15**	**R**	**5b**	**2016**	F	**N**				**N**	X		**N**		I				
OK620910020280_00	Darrow Creek	8.00	R	3	2016	X	X				X	X		X						
OK620910020290_00	Homestead Creek	6.61	R	3	2016	X	X				X	X		X						

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OK620910020300_00	Sand Creek	12.86	R	3	2016	X	X				X	X		X						
OK620910020310_00	Indian Creek	16.71	R	**4a**	2016	F	F				F	X		**N**		I				
OK620910020320_00	Ringwood Creek	5.70	R	3	2016	X	X				X	X		X						
OK620910020330_00	Carwile Creek	7.60	R	3	2016	X	X				X	X		X		X				
OK620910020370_00	Bitter Creek, Unnamed Trib of	1.30	R	3	2016	X	X				X	X		X						
OK620910030010_00	**Skeleton Creek**	**32.84**	**R**	**5a**	**2016**	I	F				**N**	F		**N**		I				
OK620910030020_00	Wolf Creek	8.65	R	3	2016	X	X				X	X		X		X				
OK620910030030_00	Bridge Creek	10.27	R	3	2016	I	I				I	X		X		I				
OK620910030040_00	Otter Creek	30.15	R	**4a**	2016	F	F				F	X		**N**		I				
OK620910030050_00	Elkhorn Creek	5.36	R	3	2016	I	I				I	X		X		I				
OK620910030060_00	Crows Nest Creek	14.43	R	3	2016	X	X				X	X		X						
OK620910030070_00	4-D Creek	8.83	R	3	2016	X	X				X	X		X						
OK620910030080_00	Shawnee Creek	9.64	R	3	2016	X	X				X	X		X						
OK620910030090_00	Rock Creek	5.76	R	3	2016	X	X				X	X		X						
OK620910030100_00	Spring Creek	5.10	R	3	2016	X	X				X	X		X						
OK620910030110_00	Horse Creek	12.69	R	3	2016	X	X				X	X		X		X				
OK620910030120_00	Cottonwood Creek	10.21	R	3	2016	X	X				X	X		X						
OK620910030130_00	Spring Creek	13.66	R	3	2016	X	X				X	X		X						
OK620910030140_00	Lyon Creek	22.32	R	3	2016	I	I				I	X		X						
OK620910030150_00	Camp Creek	8.90	R	3	2016	X	X				X	X		X						
OK620910030160_00	Crooked Creek	7.31	R	3	2016	X	X				X	X		X						
OK620910030170_00	Skeleton Creek	6.00	R	3	2016	X	X				X	X		X		X				

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OK620910030170_10	Skeleton Creek	22.44	R	2	2016	I	F		I			I			I		F			
OK620910030180_00	Bitter Creek	20.28	R	3	2016	X	X				X	X		X		X				
OK620910030190_00	Wolf Creek	7.14	R	3	2016	X	X				X	X		X						
OK620910030200_00	Rock Creek	10.20	R	3	2016	I	I				I	X		X						
OK620910030210_00	Dry Creek	6.81	R	3	2016	X	X				X	X		X						
OK620910030220_00	Hackberry Creek	17.40	R	2	2016	X	X				X	X			X		F			
OK620910030230_00	Fairmont Creek	10.31	R	3	2016	X	X		X			X			X					
OK620910030240_00	Skeleton Creek	11.45	R	3	2015	X	X				X	X		X		X				
OK620910030250_00	Boggy Creek	15.63	R	3	2016	X	X				X	X		X						
OK620910030260_00	Meadowlake Park Lake	10	L	3	2016	X	X				X	X		X						
OK620910030270_00	Vance Creek	2.78	R	3	2016	X	X				X	X		X						
OK620910030290_00	Covington Creek!	6.73	R	3	2016	X	X				X	X		X						
OK620910040010_00	**Cottonwood Creek**	**22.01**	**R**	**5a**	**2016**	F	F				F	X		**N**		I				
OK620910040010_10	Cottonwood Creek	2.88	R	3	2016	X	X				X	X		X		X				
OK620910040010_20	Cottonwood Creek	24.39	R	**4a**	2014	I	F				**N**	X		**N**		X				
OK620910040020_00	Bird Creek	4.28	R	3	2016	X	X				X	X		X						
OK620910040030_00	Country Club Lake (Santa Fe)	97	L	3	2016	X	X				X	X		X						
OK620910040040_00	Snake Creek	2.95	R	3	2016	X	X				X	X		X						
OK620910040050_00	Guthrie Creek	5.77	R	3	2016	X	X				X	X		X		X				✓
OK620910040060_00	**Guthrie Lake**	**274**	**L**	**5a**	**2016**	F	F				**N**	F		**N**		**N**				✓
OK620910040070_00	Liberty Lake Creek	5.56	R	3	2016	X	X				X	X		X		X				✓
OK620910040080_00	**Liberty Lake**	**167**	**L**	**5a**	**2016**	F	F				F	F		**N**		**N**				✓

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OK620910040090_00	Spring Creek	6.67	R	3	2016	X	X				X	X		X						
OK620910040100_00	**Chisholm Creek**	**21.15**	**R**	**5a**	**2016**	I	F				F	I		I		**N**				
OK620910040110_00	Edmond Creek	3.90	R	3	2016	X	X				X	X		X						
OK620910040120_00	**Deer Creek**	**12.67**	**R**	**5a**	**2016**	F	F				**N**	I		**N**		F				
OK620910040120_10	Deer Creek	18.51	R	2	2016	X	X				F	X		X		X				
OK620910040130_00	Bloody Rush Creek	6.50	R	3	2016	X	X				X	X		X						
OK620910040140_00	**Bluff Creek**	**9.32**	**R**	**5a**	**2016**	I	X				F	X		**N**		I				
OK620910040150_00	Dry Creek	6.65	R	2	2016	X	X				F	X		X						
OK620910040170_00	Spring Creek	3.77	R	3	2016	X	X				X	X		X						
OK620910040175_00	Hefner Canal	2.58	R	3	2018	X	X				X	X		X						
OK620910040180_00	Ski Island Lake	45	L	3	2016	X	X				X	X		X						
OK620910040190_00	Silver Lake	5	L	3	2016	X	X				X	X		X						
OK620910040200_00	Hefner Lake	2,500	L	1	2016	F	F				F	F		F		F				
OK620910040210_00	Walnut Creek	9.43	R	3	2016	X	X				X	X		X						
OK620910040220_00	Soldier Creek	8.17	R	3	2016	X	X				X	X		X						
OK620910040230_00	Chapel Hill Creek	6.07	R	3	2016	X	X				X	X		X						
OK620910040240_00	Piedmont Creek	4.33	R	3	2016	X	X				X	X		X						
OK620910040250_00	Spring Creek	4.67	R	3	2016	X	X				X	X		X						
OK620910040260_00	Northwood Lake	190	L	3	2016	I	X				I	X		X						
OK620910040270_00	Cow Creek	4.85	R	3	2016	X	X				X	X		X						
OK620910040280_00	Wolf Creek	6.97	R	3	2016	X	X				X	X		X						
OK620910050010_00	**Kingfisher Creek**	**47.37**	**R**	**5b**	**2016**	F	**N**				**N**	X		**N**						

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OK620910050020_00	**Trail Creek**	**14.87**	**R**	**5a**	**2016**	I	I				**N**	X		**N**						
OK620910050030_00	Uncle Johns Creek	27.49	R	**4a**	2016	F	F				F	X		**N**						
OK620910050040_00	Clear Creek	9.90	R	3	2016	X	X				X	X		X						
OK620910050050_00	Concho Creek	11.56	R	3	2016	X	X				X	X		X						
OK620910050060_00	Elmer Lake Creek	5.49	R	3	2016	X	X				X	X		X						
OK620910050070_00	Elmer Lake	60	L	3	2016	X	X				X	X		X						
OK620910050080_00	**Winter Camp Creek**	**24.23**	**R**	**5a**	**2016**	F	**N**				**N**	X		**N**		I				
OK620910050085_00	Winter Camp Creek, Unnamed Tributary of	5.25	R	2	2016	X	X		X						X		F			
OK620910050090_00	Okarche Creek	21.87	R	3	2016	I	I				I	X		X						
OK620910050100_00	Altona Creek	6.42	R	3	2016	X	X				X	X		X						
OK620910050110_00	Cheyenne Creek	15.77	R	3	2016	X	X				X	X		X						
OK620910050120_00	Porcupine Creek	14.86	R	3	2016	X	X				X	X		X						
OK620910050130_00	Otter Creek	23.15	R	3	2016	X	X				X	X		X		X				
OK620910050140_00	Cedar Creek	9.43	R	3	2016	X	X				X	X		X						
OK620910050150_00	**Winter Camp Creek!**	**7.73**	**R**	**5b**	**2016**	I	**N**				I	X		X						
OK620910060010_00	**Turkey Creek**	**82.59**	**R**	**5a**	**2016**	I	F				F	X		**N**		I				
OK620910060020_00	Little Turkey Creek	11.37	R	**4a**	2016	F	F				F	X		**N**						
OK620910060025_00	Narragansett Creek	2.47	R	3	2016	X	X		X						X					
OK620910060030_00	**Buffalo Creek**	**13.99**	**R**	**5a**	**2016**	I	I				**N**	X		I						
OK620910060040_00	Bison Creek	6.04	R	3	2016	X	X				X	X		X						
OK620910060050_00	Hell and Gone Creek	7.26	R	3	2016	X	X				X	X		X						
OK620910060060_00	Barr Creek	5.72	R	3	2016	X	X				X	X		X						

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OK620910060070_00	Dry Creek	7.52	R	3	2016	X	X				X	X		X						
OK620910060080_00	Flowing Creek	5.01	R	3	2016	X	X				X	X		X						
OK620910060090_00	Sand Creek	4.02	R	3	2016	X	X				X	X		X						
OK620910060100_00	Spring Creek	6.81	R	3	2016	I	I				I	X		X						
OK620910060110_00	**Clear Creek**	**5.18**	**R**	**5a**	**2016**	I	I				**N**	X		I						
OK620910060120_00	Sand Creek	10.16	R	3	2016	X	X				X	X		X						
OK620910060130_00	Carrier Creek	12.66	R	3	2016	X	X				X	X		X						
OK620910060140_00	Dry Salt Creek	6.69	R	3	2016	X	X		X			X			X					
OK620910060145_00	Dry Salt Creek, Unnamed Trib of	0.18	R	3	2016	X	X		X						X					
OK620910060150_00	Elm Creek	8.98	R	3	2016	X	X				X	X		X						
OK620920010010_00	Cimarron River	43.01	R	**4a**	2016	I	F				**N**	I		**N**			F			
OK620920010020_00	Sand Creek	14.40	R	3	2016	I	I				I	X		X		X				
OK620920010030_00	Gypsum Creek	16.16	R	3	2016	X	X				X	X		X		X				
OK620920010040_00	Fairview Creek, West	8.11	R	3	2016	X	X				X	X		X						
OK620920010050_00	Fairview Creek, East	9.01	R	3	2016	X	X				X	X		X						
OK620920010060_00	Elm Creek	10.61	R	3	2016	X	X				X	X		X						
OK620920010080_00	**Cottonwood Creek**	**21.88**	**R**	**5b**	**2016**	F	**N**				**N**	X		I		I				
OK620920010090_00	Skunk Creek	12.06	R	3	2016	X	X				X	X		X						
OK620920010100_00	Cheyenne Creek	18.53	R	3	2016	X	X				X	X		X		X				
OK620920010110_00	Barney Creek	21.49	R	3	2016	X	X				X	X		X		X				
OK620920010120_00	Barney Creek, West Branch	6.06	R	3	2016	X	X				X	X		X						
OK620920010130_00	**Griever Creek**	**20.28**	**R**	**5a**	**2016**	I	**N**				**N**	X		**N**		I				

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OK620920010140_00	**Griever Creek, East**	**13.36**	**R**	**5a**	**2016**	F	**N**				F	X		**N**		I				
OK620920010150_00	Griever Creek, Middle	6.33	R	3	2016	X	X				X	X		X						
OK620920010160_00	Walnut Grove Creek	8.88	R	3	2016	X	X				X	X		X						
OK620920010170_00	Wildcat Creek	6.58	R	3	2016	X	X				X	X		X						
OK620920010180_00	**Main Creek**	**19.10**	**R**	**5b**	**2016**	I	**N**				F	X		**N**		I				
OK620920010190_00	Ewers Creek	12.83	R	2	2016	X	X				F	X		X		X				
OK620920010200_00	Gyp Creek	5.09	R	3	2016	X	X				X	X		X						
OK620920010210_00	West Creek	19.62	R	3	2016	X	X				X	X		X						
OK620920010220_00	Cuddy Creek	12.91	R	3	2016	X	X				X	X		X						
OK620920020010_00	**Cimarron River**	**32.63**	**R**	**5a**	**2016**	F	**N**				**N**	**N**		**N**			F			
OK620920020020_00	Dog Creek	8.56	R	2	2016	X	X				X	X		X			F			
OK620920020030_00	Sand Creek	16.85	R	3	2016	X	X				X	X		X		X				
OK620920020040_00	Chimney Creek	16.90	R	3	2016	X	X				X	X		X		X				
OK620920020050_00	Whitehorse Creek	21.66	R	3	2016	I	I				I	X		X		X				
OK620920020060_00	**Doe Creek**	**17.50**	**R**	**5c**	**2016**	I	I				**N**	X		X		X				
OK620920020070_00	Wildcat Creek	9.65	R	3	2016	X	X				X	X		X						
OK620920020080_00	Long Creek	17.76	R	**4a**	2016	F	F				F	X		**N**		I				
OK620920020090_00	Alabaster Creek	6.07	R	3	2016	X	X				X	X		X						
OK620920020100_00	Slicker Creek	10.70	R	3	2016	X	X				X	X		X						
OK620920020110_00	Red Horse Creek	15.76	R	3	2016	X	X				X	X		X		X				
OK620920020120_00	Anderson Creek	20.19	R	3	2016	X	X				X	X		X		X				
OK620920020130_00	Bull Creek	5.72	R	3	2016	X	X				X	X		X						

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OK620920020140_00	Freedom Creek	8.00	R	3	2016	X	X				X	X		X						
OK620920020150_00	Girl Creek	9.96	R	3	2016	X	X				X	X		X						
OK620920020160_00	Houston Creek	11.89	R	3	2016	X	X				X	X		X						
OK620920020170_00	**Traders Creek**	**22.09**	**R**	**5a**	**2016**	F	**N**				I	X		**N**		F				
OK620920020180_00	Moccasin Creek	16.85	R	3	2016	X	X				X	X		X		X				
OK620920020190_00	Moccasin Creek, West	9.21	R	3	2016	X	X				X	X		X						
OK620920020200_00	Sand Creek	17.03	R	3	2016	I	I				I	X		X		X				
OK620920030010_00	**Cimarron River**	**24.35**	**R**	**5a**	**2016**	F	**N**				**N**	F		**N**			F			
OK620920030030_00	Day Creek	11.76	R	3	2016	X	X				X	X		X		X				
OK620920030040_00	Keno Creek	14.30	R	3	2016	X	X				X	X		X		X				
OK620920030050_00	Anderson Creek	9.09	R	3	2016	X	X				X	X		X						
OK620920030060_00	Lodge Pole Creek	12.55	R	3	2016	X	X				X	X		X						
OK620920040010_00	Eagle Chief Creek	73.43	R	**4a**	2016	F	F				F	X		**N**		I				
OK620920040030_00	Big Timber Lake Creek	4.37	R	3	2016	X	X		X			X			X					
OK620920040040_00	Big Timber Lake	15	L	3	2016	X	X				X	X		X						
OK620920040050_00	Spring Creek	2.82	R	3	2016	I	I				I	X		X						
OK620920040060_00	Carmen Creek	3.73	R	3	2016	X	X				X	X		X						
OK620920040070_00	Carmen Creek, East	4.45	R	3	2016	X	X				X	X		X						
OK620920040080_00	Carmen Creek, West	4.07	R	3	2016	X	X				X	X		X						
OK620920040090_00	Sand Creek	17.78	R	3	2016	I	I				I	X		X						
OK620920040100_00	Lake Creek	15.59	R	3	2016	I	I				I	X		X						
OK620920040110_00	**Little Eagle Chief Creek**	**24.99**	**R**	**5b**	**2016**	I	**N**				I	X		X						

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OK620920040120_00	Noel Creek	6.73	R	3	2016	X	X				X	X		X						
OK620920040140_00	Avard Lake	1	L	3	2016	X	X				X	X		X						
OK620920040160_00	McGill Lake	24	L	3	2016	X	X				X	X		X						
OK620920040170_00	Lojo creek	7.53	R	2	2018	F	I				I	X		X						
OK620920050010_00	**Buffalo Creek**	**49.75**	**R**	**5b**	**2016**	I	**N**				F	X		**N**		I				
OK620920050020_00	Elm Creek	11.50	R	3	2016	I	I				I	X		X						
OK620920050030_00	Sleeping Bear Creek	16.60	R	3	2016	I	I				I	X		X		I				
OK620920050040_00	Gilbert Creek	6.07	R	3	2016	I	I				I	X		X						
OK620920050050_00	**Sand Creek**	**26.02**	**R**	**5a**	**2016**	I	**N**				**N**	X		**N**		I				
OK620920050060_00	Selman Creek	10.80	R	3	2016	I	I				I	X		I						
OK620920050070_00	Little Buffalo Creek	3.72	R	3	2016	I	I				I	X		X						
OK620920050080_00	Buffalo Aqueduct	6.59	R	3	2016	X	X				X	X		X						
OK620920050090_00	Doby Springs Park Branch!	1.01	R	3	2016	I	I				I	X		X						
OK620920050100_00	Doby Springs Creek!	8.40	R	3	2016	X	X				X	X		X						
OK620930000010_00	**Cimarron River**	**37.66**	**R**	**5a**	**2016**	F	F				**N**	F		**N**		I				
OK620930000020_00	Snake Creek	15.71	R	3	2016	X	X				X	X		X		X				
OK620930000030_00	Redoubt Creek	19.41	R	3	2016	I	I				I	X		X		X				
OK620930000040_00	Old Settlers Irrigation Ditch	15.12	R	3	2016	X	I				X	X		X						
OK620930000050_00	Stink Creek	7.63	R	3	2016	X	X				X	X		X						
OK620930000060_00	Horse Creek	12.79	R	2	2016	X	X				X	X			X		F			
OK620930000070_00	Horse Creek, West Fork	8.35	R	3	2016	X	X				X	X		X						
OK620930000090_00	Gate Lake	1	L	3	2016	X	X				X	X		X						

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OK620930000100_00	Crooked Creek	6.38	R	**4a**	2016	F	I				F	X		**N**		I				
OK620930000110_00	Cottonwood Creek	7.40	R	3	2016	X	X				X	X		X		X				
OK620930000120_00	Taintor Creek	7.30	R	2	2016	X	F				I	X		I						
OK620930000130_00	Forgan Creek, West	7.90	R	3	2016	X	X				X	X		X						
OK621000010010_00	Arkansas River, Salt Fork	10.72	R	3	2016	X	X				X	X		X		X				
OK621000010010_10	Arkansas River, Salt Fork	8.21	R	3	2016	X	X				X	X		X		X				
OK621000010010_20	Arkansas River, Salt Fork	5.41	R	3	2016	X	X				X	X		X		X				
OK621000010010_30	**Arkansas River, Salt Fork**	**34.45**	**R**	**5a**	**2016**	I	F				**N**	**N**		**N**		F				
OK621000010020_00	Deadman Creek	3.24	R	3	2016	I	I				I	X		X						
OK621000010030_00	Conoco Creek	4.69	R	3	2016	X	X				X	X		X						
OK621000010050_00	Cowskin Creek	11.71	R	3	2016	I	I				I	X		X		I				
OK621000010060_00	Bird's Nest Creek	22.54	R	3	2016	I	I				I	X		X		I				
OK621000010070_00	Horseshoe Lake Creek	3.52	R	3	2016	I	I				I	X		X		I				
OK621000010080_00	Horseshoe Lake	1	L	3	2016	X	X				X	X		X						
OK621000010090_00	Tonkawa Creek	3.38	R	3	2016	X	X				X	X		X						
OK621000010100_00	Unnamed Tributary (Deer)	0.42	R	3	2016	X	X				X	X		X		X				
OK621000010110_00	Eddy Creek	6.64	R	3	2016	I	I				I	X		X		I				
OK621000010120_00	Boggy Creek	8.72	R	3	2016	X	X				X	X		X						
OK621000010130_00	Red Bird's Nest Creek	3.40	R	3	2016	I	I				I	X		X						
OK621000010140_00	Tonkawa Creek	2.56	R	3	2016	I	I				I	X		X						
OK621000020010_00	Arkansas River, Salt Fork	33.55	R	2	2016	I	F				I	X		X		I				
OK621000020010_10	Arkansas River, Salt Fork	8.22	R	2	2016	X	X				F	X		X						

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OK621000020030_00	Negro Creek	5.42	R	3	2016	X	X				X	X		X						
OK621000020040_00	**Wild Horse Creek**	**24.66**	**R**	**5c**	**2016**	F	F				**N**	X		**N**						
OK621000020050_00	Sand Creek	16.15	R	3	2016	X	X				X	X		X						
OK621000020060_00	Kremlin Creek	9.88	R	3	2016	X	X				X	X		X						
OK621000020080_00	Hellums Lake	6	L	3	2016	X	X				X	X		X						
OK621000020090_00	Four Corners Creek	5.55	R	3	2016	X	X				X	X		X						
OK621000020100_00	Ninemile Creek	11.27	R	3	2016	I	I				I	X		X						
OK621000020110_00	Ninemile Canyon Creek	1.36	R	3	2016	X	X				X	X		X						
OK621000020120_00	Little Pond Creek	5.90	R	3	2016	X	X				X	X		X						
OK621000020130_00	**Spring Creek**	**6.14**	**R**	**5a**	**2016**	F	F				F	X		**N**						
OK621000020140_00	Three Lakes Creek	1.30	R	3	2016	X	X				X	X		X						
OK621000020150_00	Three Lake	1	L	3	2016	X	X				X	X		X						
OK621000020160_00	Coldwater Creek	25.80	R	3	2016	I	I				I	X		X						
OK621000020170_00	Sand Creek	18.77	R	3	2016	I	X				I	X		X						
OK621000020180_00	Little Nash Creek	3.14	R	3	2016	X	X				X	X		X						
OK621000020190_00	Nash Creek	12.38	R	2	2016	X	X				F	X		X						
OK621000020200_00	Wagon Creek	24.12	R	3	2016	I	X				I	X		X		X				
OK621000020210_00	Wagon Creek, Unnamed Trib of	5.15	R	3	2016	X	X		X						X					
OK621000030010_00	**Bois d' Arc Creek**	**36.88**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		I				
OK621000030020_00	Santa Fe Creek	3.86	R	3	2016	X	X				X	X		X						
OK621000030040_00	Cattle Creek, East	10.28	R	2	2016	F	F				I	X		X		I				
OK621000030050_00	**Cattle Creek, West**	**8.56**	**R**	**5b**	**2016**	I	**N**				I	X		X		I				

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OK621000030060_00	Kildare Creek	5.90	R	3	2016	X	X				X	X		X						
OK621000030070_00	Spring Creek	2.13	R	2	2016	X	X				F	X		X			F			
OK621000030080_00	Kildare Creek, North	4.95	R	3	2016	I	I				I	X		X		I				
OK621000030090_00	**Spring Creek**	**3.40**	**R**	**5c**	**2016**	I	I				**N**	X		X			F			
OK621000030100_00	Newkirk Creek	4.49	R	3	2016	X	X				X	X		X						
OK621000030110_00	Spring Creek	2.52	R	2	2016	X	X		X			X			X		F			
OK621000030110_10	Spring Creek	3.54	R	2	2016	X	X				X	X		X			F			
OK621000040010_00	Deer Creek	40.81	R	**4a**	2016	I	F				F	X		**N**		I				
OK621000040020_00	Thompson Creek	14.17	R	3	2016	X	X				X	X		X						
OK621000040030_00	Peters Creek	9.44	R	3	2016	X	X				X	X		X						
OK621000040040_00	Nardin Creek	8.74	R	3	2016	X	X				X	X		X						
OK621000040050_00	Big Antelope Creek	13.42	R	3	2016	X	X				X	X		X						
OK621000040060_00	Little Antelope Creek	10.63	R	3	2016	X	X				X	X		X						
OK621000040070_00	Dry Creek	9.57	R	2	2016	I	F				I	X		X		I				
OK621000050010_00	Pond Creek	60.22	R	**4a**	2016	I	F				F	X		**N**		I				
OK621000050020_00	Spring Creek	8.14	R	3	2016	X	X				X	X		X						
OK621000050030_00	Polecat Creek	29.10	R	3	2016	X	X				X	X		X		X				
OK621000050040_00	Deadman Creek	8.22	R	3	2016	X	X				X	X		X						
OK621000050050_00	Cottonwood Creek	14.27	R	3	2016	X	X				X	X		X						
OK621000050060_00	Elm Creek	9.82	R	3	2016	X	X				X	X		X						
OK621000050070_00	Renfrow Creek	5.83	R	3	2016	X	X				X	X		X						
OK621000050080_00	Bullwacker Creek	20.23	R	2	2016	X	X		X			X			X		F			

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OK621000050090_00	Medford Creek	8.49	R	3	2016	X	X				X	X		X						
OK621000050100_00	Osage Creek	33.69	R	3	2016	X	X				X	X		X		X				
OK621000050110_00	Wakita Creek	7.57	R	3	2016	X	X				X	X		X						
OK621000050120_00	Deadman Creek, Unnamed Trib of	2.74	R	3	2017	X	X				X	X		X						
OK621000060010_00	Crooked Creek	32.88	R	**4a**	2016	F	F				F	X		**N**		I				
OK621000060020_00	Gilbert Creek	3.70	R	3	2016	X	X				X	X		X						
OK621000060030_00	Sand Creek	25.80	R	2	2016	X	I				F	X		X		X				
OK621000060040_00	Cooper Creek	9.26	R	3	2016	X	X				X	X		X						
OK621000060050_00	Lynch Creek	8.36	R	3	2016	X	X				X	X		X						
OK621000060060_00	**Duel Creek**	**10.35**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK621000060070_00	Gibbon Creek, North	11.13	R	3	2016	X	X				X	X		X						
OK621000060080_00	Manchester Creek	11.33	R	3	2016	X	X				X	X		X						
OK621000060090_00	Gibbon Creek, East	11.25	R	3	2016	X	X				X	X		X						
OK621010010010_00	Arkansas River, Salt Fork	17.34	R	**4a**	2016	I	F				**N**	X		F		I				
OK621010010020_00	**Great Salt Plains Lake**	**8,690**	**L**	**5a**	**2014**	I					**N**	F		**N**						
OK621010010050_00	Powell Creek	7.70	R	3	2016	I	I				I	X		X						
OK621010010060_00	Spring Creek	10.10	R	3	2016	X	X				X	X		X						
OK621010010070_00	Twin Creek	10.49	R	3	2016	X	X				X	X		X		X				
OK621010010080_00	Jet Creek	3.73	R	3	2016	X	X				X	X		X		X				
OK621010010090_00	Clay Creek	4.05	R	2	2012	X	X				X	X		X			F			
OK621010010100_00	Cottonwood Creek	21.81	R	3	2016	I	I				I	X		X						
OK621010010110_00	Clay Creek, East	15.17	R	3	2016	X	X				X	X		X		X				

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OK621010010110_10	Clay Creek, East	6.91	R	3	2016	X	X				X	X		X		X				
OK621010010120_00	Helena Creek	6.26	R	3	2016	X	X				X	X		X		X				
OK621010010130_00	**Clay Creek, West**	**22.92**	**R**	**5a**	**2016**	F	**N**				**N**	X		**N**		X				
OK621010010140_00	Lambert Creek	9.09	R	3	2016	X	X				X	X		X		X				
OK621010010160_00	Arkansas River, Salt Fork	14.96	R	**4a**	2016	F	F				**N**	F		**N**		F				
OK621010010180_00	Ingersoll Creek	10.61	R	3	2016	X	X				X	X		X		X				
OK621010010190_00	Ashley Creek, East	8.70	R	3	2016	X	X				X	X		X		X				
OK621010010200_00	Ashley Creek, West	4.34	R	3	2016	X	X				X	X		X		X				
OK621010010210_00	Capron Creek, South	11.41	R	3	2016	X	X				X	X		X		X				
OK621010010220_00	Arkansas River, Salt Fork	36.63	R	2	2016	I	F				I	X		X		I				
OK621010010230_00	**Turkey Creek**	**20.80**	**R**	**5b**	**2016**	F	**N**				F	X		**N**		I				
OK621010010240_00	**Boggy Creek**	**16.43**	**R**	**5b**	**2018**	I	**N**				I	X		X		I				
OK621010010250_00	Greenleaf Creek	19.53	R	3	2016	I	I				I	X		X		X				
OK621010010260_00	Hackberry Creek	1.96	R	3	2016	X	X				X	X		X		X				
OK621010010270_00	**Yellowstone Creek**	**21.82**	**R**	**5b**	**2016**	I	**N**				F	X		**N**		I				
OK621010020010_00	Sandy Creek	17.81	R	**4a**	2016	I	F				F	X		**N**		I				
OK621010020020_00	Little Church Creek	4.28	R	3	2016	X	X				X	X		X		X				
OK621010020030_00	Little Sandy Creek	9.82	R	3	2016	X	X				X	X		X		X				
OK621010020040_00	Salty Creek	4.47	R	3	2016	I	I				I	X		X		X				
OK621010020050_00	Rush Creek	3.59	R	3	2016	X	X				X	X		X		X				
OK621010030010_00	Medicine Lodge River	13.47	R	**4a**	2016	I	F				F	X		**N**		I				
OK621010030020_00	Byron Creek	6.11	R	3	2016	X	X				X	X		X		X				

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OK621010030030_00	Driftwood Creek	38.79	R	**4a**	2016	F	F				**N**	X		**N**		I				
OK621010030040_00	Dry Creek	10.30	R	3	2016	X	X				X	X		X		X				
OK621010030050_00	Little Driftwood Creek	9.75	R	3	2016	I	I				I	X		X		X				
OK621010030060_00	Loder Creek	4.35	R	3	2016	X	X				X	X		X		X				
OK621010030070_00	Little Mule Creek	6.36	R	3	2016	X	X				X	X		X		X				
OK621010030080_00	**Capron Creek, North**	**8.09**	**R**	**5b**	**2018**	I	**N**				I	X		X		I				
OK621010030090_00	Spring Creek	10.54	R	3	2016	X	X				I	X		X		X				
OK621010030100_00	Stink Creek	19.18	R	3	2016	X	X				I	X		X		X				
OK621100000010_00	Chikaskia River	5.39	R	**4a**	2016	I	F				F	X		**N**		I				
OK621100000010_10	**Chikaskia River**	**23.11**	**R**	**5a**	**2016**	F	F				**N**	**N**		**N**		I				
OK621100000010_20	**Chikaskia River**	**12.81**	**R**	**5a**	**2016**	I	F				F	X		**N**		F				
OK621100000020_00	Antwine Lake	20	L	3	2016	X	X				X	X		X						
OK621100000030_00	**Duck Creek**	**25.78**	**R**	**5a**	**2018**	F	I				I	X		**N**		F				
OK621100000033_00	Duckling Creek	4.85	R	3	2018	I	I				I	X		X		I				
OK621100000040_00	**Peckham Creek**	**9.29**	**R**	**5b**	**2018**	I	**N**				I	X		X		I				
OK621100000050_00	Stink Creek	15.93	R	3	2018	I	I				I	X		X		I				
OK621100000060_00	Lost Creek	15.40	R	3	2016	I	I				I	X		X						
OK621100000070_00	**Grainville Creek**	**6.32**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK621100000080_00	Wentz Lake Creek	1.45	R	3	2016	X	X				X	X		X						
OK621100000090_00	Wentz Lake	17	L	3	2016	X	X				X	X		X						
OK621100000100_00	**Bitter Creek**	**23.33**	**R**	**5a**	**2016**	I	**N**				**N**	X		**N**		I				
OK621100000110_00	Dry Creek	20.58	R	3	2016	X	X				X	X		X						

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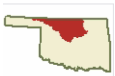

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OK621100000120_00	Braman Creek	10.52	R	3	2016	X	X				X	X		X						
OK621100000130_00	**Scatter Creek**	**7.58**	**R**	**5b**	**2018**	I	**N**				I	X		X		I				
OK621100000140_00	Sumpter Creek	6.90	R	3	2016	X	X				X	X		X						
OK621100000150_00	Bitter Creek, East	4.14	R	3	2016	X	X				X	X		X						
OK621100000160_00	Spring Creek	8.79	R	3	2016	X	X				X	X		X						
OK621100000180_00	Shoo Fly Creek	7.75	R	3	2016	X	X				X	X		X						
OK621100000190_00	Chikaskia River	7.89	R	3	2016	X	X				X	X		X		X				
OK621100000200_00	Blackwell Lake	53	L	3	2014	X	X				X	X		X						
OK621100000210_00	Blackwell Creek	5.02	R	3	2016	X	X				X	X		X						
OK621100000220_00	Sand Creek	5.88	R	3	2016	X	X				X	X		X						
OK621100000230_00	Bluff Creek	11.66	R	3	2016	X	X				X	X		X		X				
OK621100000240_00	Spring Creek	5.09	R	3	2016	X	X				X	X		X						
OK621100000250_00	Sullivan Branch	6.12	R	3	2016	X	X				X	X		X						
OK621200010020_00	**Keystone Lake**	**3,980**	**L**	**5a**	**2016**	F	F				**N**	I		I		I				
OK621200010025_00	Keywest Creek	1.86	R	2	2016	I	F				I	X		X		I				
OK621200010030_00	Bogy Creek	2.34	R	3	2016	X	X				X	X		X						
OK621200010040_00	Arkansas River	1.59	R	3	2016	X	X				I	X		X		X				
OK621200010050_00	**Keystone Lake, Arkansas River Arm**	**9,491**	**L**	**5a**	**2016**	I	F				**N**	I		I		I				
OK621200010060_00	Mud Creek	4.53	R	3	2016	X	X				X	X		X						
OK621200010070_00	Rock Creek	2.59	R	3	2016	X	X				X	X		X						
OK621200010080_00	Walnut Creek	2.90	R	3	2016	X	X				X	X		X						
OK621200010090_00	Waresha Creek	2.63	R	3	2016	X	X				X	X		X						

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OK621200010100_00	Little Waresha Creek	2.31	R	3	2016	X	X				X	X		X						
OK621200010110_00	Cowskin Creek	5.36	R	3	2016	X	X				X	X		X						
OK621200010120_00	Bear Creek	5.40	R	3	2016	X	X				X	X		X						
OK621200010130_00	Mill Creek	2.86	R	3	2016	X	X				X	X		X						
OK621200010140_00	Vandruff Creek	4.01	R	3	2016	X	X				X	X		X						
OK621200010150_00	Mechetsemoi Creek	4.22	R	3	2016	X	X				X	X		X						
OK621200010160_00	Osage Creek	4.44	R	3	2016	X	X				X	X		X						
OK621200010170_00	Cedar Creek	7.02	R	3	2016	X	X				X	X		X						
OK621200010180_00	Scanlon Creek	3.48	R	3	2016	X	X				X	X		X						
OK621200010190_00	Black Dog Creek	4.69	R	3	2016	X	X				X	X		X						
OK621200010200_00	Arkansas River	37.49	R	**4a**	2016	I	F				**N**	F		**N**		I				
OK621200010210_00	Sand Creek	3.08	R	3	2016	X	X				X	X		X						
OK621200010220_00	Ghost Hollow Creek	2.85	R	3	2016	X	X				X	X		X						
OK621200010230_00	Ranch Creek	2.31	R	3	2016	X	X				X	X		X						
OK621200010240_00	Turkey Creek	2.29	R	3	2016	X	X				X	X		X						
OK621200010250_00	Carpenter Creek	4.60	R	3	2016	X	X				X	X		X						
OK621200010260_00	Ranch Creek	6.99	R	3	2016	X	X				X	X		X		X				
OK621200010270_00	**Cleveland Lake**	**159**	**L**	**5a**	**2016**	F	F				**N**	X		F		F				
OK621200010280_00	Ranch Creek, West Branch	7.00	R	3	2016	X	X				X	X		X						
OK621200010300_00	Maramec Lake	28	L	3	2016	X	X				X	X		X						
OK621200010310_00	Hellroaring Creek	9.95	R	3	2016	X	X				X	X		X						
OK621200010320_00	Bug Creek	11.54	R	2	2016	X	X				F	X		X		X				

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OK621200010330_00	Harper Creek	4.77	R	3	2016	X	X				X	X		X						
OK621200010350_00	Sycamore Creek	11.54	R	3	2016	X	X				X	X		X						
OK621200010360_00	Dry Creek	5.06	R	3	2016	X	X				X	X		X						
OK621200010370_00	Spring Creek	3.90	R	3	2016	X	X				X	X		X						
OK621200010380_00	Coal Creek	11.79	R	3	2016	X	X				X	X		X						
OK621200010390_00	Coon Creek	5.40	R	3	2016	X	X				X	X		X						
OK621200010400_00	Gray Horse Creek	15.94	R	**4a**	2014	F	F				F	X		**N**						
OK621200010410_00	Lucy Creek	9.00	R	3	2016	X	X				X	X		X						
OK621200010420_00	Eagle Creek	5.56	R	3	2016	X	X				X	X		X						
OK621200020010_00	Arkansas River	4.92	R	3	2016	X	X				X	X		X		X				
OK621200020010_10	Arkansas River	14.80	R	3	2016	X	X				X	X		X		X				
OK621200020010_20	Arkansas River	0.86	R	3	2016	X	X				X	X		X		X				
OK621200020010_30	Arkansas River	24.60	R	3	2016	X	X				X	X		X		X				
OK621200020010_40	Arkansas River	6.73	R	3	2016	X	X				X	X		X		X				
OK621200020010_50	Arkansas River	10.33	R	3	2016	X	X				I	I		X		I				
OK621200020020_00	**Doga Creek**	**9.85**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		I				
OK621200020030_00	Clear Creek	7.41	R	3	2016	X	X				X	X		X						
OK621200020040_00	Doga Creek, East Fork	4.97	R	3	2016	X	X				X	X		X		X				
OK621200020050_00	Doga Creek, West Fork	2.70	R	3	2016	X	X				X	X		X		X				
OK621200020060_00	Doga Creek, Middle Fork	4.80	R	3	2016	X	X				X	X		X		X				
OK621200020070_00	Bedford Creek	3.67	R	3	2016	X	X				X	X		X						
OK621200020080_00	Mud Creek	5.76	R	3	2016	X	X				X	X		X						

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OK621200020090_00	Brush Creek	4.52	R	3	2016	X	X				X	X		X						
OK621200020100_00	Rock Creek	9.39	R	3	2016	X	X				X	X		X						
OK621200020110_00	Greasy Creek	4.14	R	3	2016	X	X				X	X		X						
OK621200020120_00	Watchorn Creek	5.86	R	3	2016	X	X				X	X		X						
OK621200020130_00	Sooner Lake	5,400	L	2	2014	F	F				I	F		F						
OK621200020150_00	Big Drum Creek	7.43	R	3	2016	X	X				X	X		X						
OK621200020160_00	Little Drum Creek	7.57	R	3	2016	X	X				X	X		X						
OK621200020170_00	Prettyhair Creek	5.59	R	3	2016	X	X				X	X		X						
OK621200020180_00	Simpkins Creek	5.16	R	3	2016	X	X				X	X		X						
OK621200020190_00	Turkey Creek	2.65	R	3	2016	X	X				X	X		X		X				✓
OK621200020200_00	Turkey Creek, West Ponca Lake Branch	6.67	R	3	2016	X	X				X	X		X		X				✓
OK621200020210_00	**Lake Ponca**	**403**	**L**	**5a**	**2016**	F	F				**N**	I		F		**N**				✓
OK621200020220_00	Turkey Creek, East Ponca Lake Branch	3.34	R	3	2016	X	X				X	X		X		X				✓
OK621200020250_00	Indian Hills Lake	1	L	3	2016	X	X				X	X		X						
OK621200020260_00	Coon Creek (Dry)	6.16	R	3	2016	X	X				X	X		X						
OK621200020270_00	Charley Creek	9.53	R	3	2016	X	X				X	X		X						
OK621200030010_00	**Black Bear Creek**	**68.02**	**R**	**5a**	**2016**	F	F				**N**	**N**		**N**		I				
OK621200030020_00	Little Crystal Creek	2.46	R	3	2016	X	X				X	X		X						
OK621200030030_00	Crystal Creek	8.04	R	3	2016	X	X				X	X		X						
OK621200030040_00	Camp Creek	23.09	R	2	2016	F	F				F	X		I		I				
OK621200030060_00	**Lone Chimney Lake**	**550**	**L**	**5a**	**2016**	F	F				**N**	F		F		F				
OK621200030070_00	Pawnee Creek	4.77	R	3	2016	X	X				X	X		X						

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OK621200030080_00	Skedee Creek	2.00	R	3	2016	X	X				X	X		X		X				✓
OK621200030090_00	Skedee Creek	5.31	R	3	2016	X	X				X	X		X		X				✓
OK621200030100_00	**Pawnee Lake**	**257**	**L**	**5a**	**2016**	F	F				**N**	F		F		**N**				✓
OK621200030110_00	Little Skedee Creek	3.24	R	3	2016	X	X				X	X		X		X				✓
OK621200030120_00	Feaster Lake Creek	2.24	R	3	2016	X	X				X	X		X		X				✓
OK621200030130_00	Feaster Lake	7	L	3	2016	X	X				X	X		X						
OK621200030140_00	Pepper Creek	6.76	R	3	2016	X	X				X	X		X						
OK621200030150_00	Peters Creek	4.47	R	3	2016	X	X				X	X		X						
OK621200030160_00	Turkey Creek	6.60	R	2	2016	X	X				F	X		X						
OK621200030170_00	Panther Creek	6.73	R	3	2016	X	X				X	X		X						
OK621200030180_00	Lion Creek	5.30	R	3	2016	X	X				X	X		X						
OK621200030190_00	Oak Creek	9.88	R	3	2016	X	X				X	X		X		X				
OK621200030195_00	Oak Creek, Unnamed Trib of	4.56	R	3	2016	X	X				X	X		X						
OK621200030200_00	Long Branch	20.66	R	3	2016	X	X				X	X		X						
OK621200030208_00	Upper Black Bear Creek Site 5 Reservoir	12	L	3	2016	X	X				X	X		X						
OK621200030210_00	Otoe Creek	5.76	R	3	2016	X	X				X	X		X						
OK621200030220_00	Spring Creek	6.43	R	3	2016	X	X				X	X		X						
OK621200030230_00	Mule Creek	8.63	R	3	2016	X	X				X	X		X		X				
OK621200030240_00	Willow Creek	7.50	R	3	2016	X	X				X	X		X						
OK621200030250_00	Elm Creek	8.28	R	3	2016	X	X				X	X		X						
OK621200030260_00	**Black Bear Creek**	**17.16**	**R**	**5b**	**2016**	I	**N**				F	X		I		I				
OK621200030260_10	**Black Bear Creek**	**11.65**	**R**	**5b**	**2016**	I	**N**				I	X		X						

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OK621200030260_20	Black Bear Creek	18.22	R	2	2016	I	F				I	X		X						
OK621200030270_00	**Cow Creek**	**12.97**	**R**	**5a**	**2016**	I	X				I	X		**N**		I				
OK621200030290_00	Wills Lake	5	L	3	2016	X	X				X	X		X						
OK621200030300_00	Perry Lake Park Creek	1.97	R	3	2016	X	X				X	X		X						
OK621200030310_00	Perry Lake Park Lake	6	L	3	2016	X	X				X	X		X						
OK621200030320_00	Calf Creek	4.01	R	3	2016	X	X				X	X		X						
OK621200030330_00	Little Cow Creek	2.91	R	3	2016	X	X				X	X		X						
OK621200030340_00	Cow Creek	7.48	R	3	2016	I	X				I	X		X		I				✓
OK621200030350_00	**Perry Lake**	**614**	**L**	**5a**	**2016**	F	F				**N**	F		F		F				✓
OK621200030360_00	Gansel Creek	7.36	R	3	2018	I	I				I	X		X						
OK621200030370_00	Warren Creek	8.16	R	3	2016	X	X				X	X		X						
OK621200030380_00	Warren Creek, East	5.13	R	3	2016	X	X				X	X		X						
OK621200030390_00	Warren Creek, West	4.99	R	2	2016	I	F				F	X		X		X				
OK621200030396_00	**Lucien Creek**	**3.62**	**R**	**5b**	**2016**	F	**N**				F	X		X		X				
OK621200030400_00	Turkey Creek	3.60	R	3	2016	X	X				X	X		X						
OK621200030410_00	Panther Creek	11.80	R	3	2016	X	X				X	X		X						
OK621200030420_00	**Garber Creek**	**5.62**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK621200030430_00	Crow Creek	5.09	R	3	2016	I	I				I	X		X						
OK621200030440_00	Olive E!	2.42	R	3	2016	I	I				I	X		X						
OK621200030450_00	Olive W!	3.02	R	3	2016	I	I				I	X		X						
OK621200030460_00	Olive	2.05	R	3	2016	I	I				I	X		X						
OK621200030470_00	Yogi	1.89	R	3	2016	I	I				I	X		X						

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OK621200030480_00	Garber Trib A!	1.86	R	3	2016	I	I				I	X		X						
OK621200030490_00	**Garber Field!**	**3.42**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK621200030500_00	**St. John!**	**2.58**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK621200030510_00	**Shale!**	**2.54**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK621200030520_00	Lincoln!	5.38	R	3	2016	I	I				I	X		X						
OK621200030530_00	Lutheran E!	0.89	R	3	2016	I	I				I	X		X						
OK621200030540_00	Lutheran mid. Branch	1.87	R	3	2016	I	I				I	X		X						
OK621200030550_00	Lutheran W!	2.27	R	3	2016	I	I				I	X		X						
OK621200030560_00	**Lutheran!**	**2.76**	**R**	**5b**	**2018**	I	**N**				I	X		X						
OK621200030570_00	Fozzie!	1.99	R	3	2016	I	I				I	X		X						
OK621200040010_00	Salt Creek	17.29	R	**4a**	2016	F	F				F	X		**N**		I				
OK621200040010_10	Salt Creek	43.97	R	**4a**	2016	I	F				F	X		**N**		I				
OK621200040020_00	Threemile Canyon Creek	3.81	R	3	2016	X	X				X	X		X						
OK621200040030_00	Wild Creek	5.74	R	3	2016	X	X				X	X		X		X				✓
OK621200040040_00	**Fairfax Lake**	**111**	**L**	**5a**	**2016**	F	F				I	F		F		**N**				✓
OK621200040050_00	Tate Creek	4.09	R	3	2016	X	X				X	X		X						
OK621200040060_00	Solomon Creek	5.98	R	3	2016	X	X				X	X		X						
OK621200040070_00	Little Chief Creek	13.18	R	2	2016	F	F				F	X		I		I				
OK621200040080_00	Lost Man Creek	6.72	R	3	2016	X	X				X	X		X						
OK621200040090_00	Wild Horse Creek	3.43	R	3	2016	X	X				X	X		X						
OK621200040100_00	Jim Creek	8.81	R	3	2016	X	X				X	X		X						
OK621200040110_00	Stewart Creek	4.40	R	3	2016	X	X				X	X		X						

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OK621200040120_00	Mud Creek	5.72	R	3	2016	X	X				X	X		X						
OK621200040130_00	Hay Creek	7.08	R	3	2016	X	X				X	X		X						
OK621200040140_00	Webb City Creek	2.62	R	3	2016	X	X				X	X		X						
OK621200040150_00	Shidler Creek	3.06	R	3	2016	X	X				X	X		X						
OK621200040160_00	Rock Creek	0.30	R	3	2016	X	X				X	X		X						
OK621200040170_00	Rock Creek	5.54	R	3	2016	X	X				X	X		X		X				✓
OK621200040180_00	Phillips Lake (Shidler)	1	L	3	2016	X	X				X	X		X		X				✓
OK621200040190_00	Potato Creek	6.46	R	3	2016	X	X				X	X		X						
OK621200040200_00	Wamsley Creek	5.77	R	3	2016	X	X				X	X		X						
OK621200040210_00	Elm Creek	12.08	R	3	2016	X	X				X	X		X		X				
OK621200040220_00	Dugout Creek	9.12	R	3	2016	X	X				X	X		X						
OK621200040230_00	Antelope Creek	7.35	R	3	2016	X	X				X	X		X						
OK621200040240_00	Adams Lake Creek	1.33	R	3	2016	X	X				X	X		X						
OK621200040250_00	Adams Lake	63	L	3	2016	X	X				X	X		X						
OK621200040260_00	Grainola Creek	2.89	R	3	2016	X	X				X	X		X						
OK621200040270_00	Salt Creek, Unnamed Trib of	3.00	R	3	2016	X	X		X						X					
OK621200050010_00	Red Rock Creek	36.92	R	**4a**	2016	I	F				**N**	X		**N**						
OK621200050010_10	Red Rock Creek	46.89	R	**4a**	2016	F	F				**N**	X		**N**						
OK621200050020_00	Cat Creek	2.50	R	3	2016	X	X				X	X		X						
OK621200050030_00	Houston Creek	4.20	R	3	2016	X	X				X	X		X						
OK621200050040_00	Coon Creek	5.29	R	3	2016	X	X				X	X		X						
OK621200050050_00	Long Creek	10.44	R	3	2016	X	X				X	X		X						

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OK621200050060_00	Bird Creek	7.05	R	3	2016	X	X				X	X		X						
OK621200050070_00	Marland Creek	7.07	R	3	2016	X	X		X						X					
OK621200050080_00	Squaw Creek	8.01	R	3	2016	X	X				X	X		X						
OK621200050090_00	Skinny Creek	13.02	R	3	2016	I	I				I	X		X						
OK621200050100_00	Cottonwood Creek	7.35	R	3	2016	X	X				X	X		X						
OK621200050110_00	Perry Air Creek	9.34	R	3	2016	X	X				X	X		X						
OK621200050120_00	Ceres Creek	4.69	R	3	2016	X	X				X	X		X						
OK621200050130_00	Little Hackberry Creek	9.69	R	3	2016	X	X				X	X		X						
OK621200050140_00	Hackberry Creek	13.28	R	3	2016	X	X				X	X		X						
OK621200050150_00	Dean Creek	8.47	R	3	2016	X	X				X	X		X						
OK621200050160_00	**Grassy Creek**	**11.30**	**R**	**5a**	**2016**	X	X				**N**	X		I						
OK621200050170_00	**Doe Creek**	**6.66**	**R**	**5c**	**2016**	X	X				**N**	X		X						
OK621200050180_00	Bunch Creek	12.43	R	3	2016	X	X				X	X		X						
OK621200050190_00	Billings Creek	4.70	R	3	2016	X	X				X	X		X						
OK621200050200_00	Monkey Creek	8.91	R	3	2015	I	I				I	X		X						
OK621200050210_00	Elkhorn Creek	10.91	R	2	2016	I	F				I	X		X						
OK621200050220_00	Ranch Creek	4.04	R	3	2016	X	X				X	X		X						
OK621200050230_00	Hereford Creek	10.46	R	3	2016	X	X				X	X		X						
OK621200050240_00	Wolf Creek	4.74	R	3	2016	X	X				X	X		X						
OK621200050250_00	Thompson Lake Creek	7.97	R	3	2016	X	X				X	X		X						
OK621200050260_00	Thompson Lake	1	L	3	2016	X	X				X	X		X						
OK621210000020_00	**Kaw Lake, Lower**	**7,208**	**L**	**5a**	**2016**	F	F				**N**	**N**		I		I				

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OK621210000030_10	**Arkansas River**	**14.44**	**R**	**5b**	**2016**	I	**N**				**N**	I		**N**		I				
OK621210000040_00	**Kaw Lake, Upper**	**9,009**	**L**	**5a**	**2012**	F	F				**N**	**N**		I		I				
OK621210000050_10	**Beaver Creek**	**21.58**	**R**	**5a**	**2016**	F	F				**N**	X		**N**		I				
OK621210000070_00	Aleck Creek	3.39	R	3	2016	X	X				X	X		X						
OK621210000080_00	Little Beaver Creek	13.04	R	3	2016	X	X				X	X		X						
OK621210000090_00	Canadian Creek	4.79	R	3	2016	X	X				X	X		X						
OK621210000100_00	Mud Creek	5.42	R	3	2016	X	X				X	X		X						
OK621210000110_00	Myers Creek	4.55	R	3	2016	X	X				X	X		X						
OK621210000120_00	Rabbit Creek	6.03	R	3	2016	X	X				X	X		X						
OK621210000130_00	Cooper Creek	1.83	R	3	2016	X	X				X	X		X						
OK621210000140_00	Haines Creek	4.31	R	3	2016	X	X				X	X		X						
OK621210000150_00	Bayliss Creek	3.46	R	3	2016	X	X				X	X		X						
OK621210000160_00	Otter Creek	6.00	R	3	2016	X	X				X	X		X						
OK621210000170_00	Lone Tree Creek	1.34	R	3	2016	X	X				X	X		X						
OK621210000180_00	Spring Creek	2.41	R	3	2016	X	X				X	X		X						
OK621210000190_00	Coon Creek	5.82	R	3	2016	X	X				X	X		X						
OK621210000200_00	Bear Creek	5.41	R	3	2016	X	X				X	X		X						
OK621210000210_00	Sweetwater Creek	7.01	R	3	2016	X	X				X	X		X						
OK621210000220_00	Wolf Creek	7.60	R	3	2016	X	X				X	X		X						
OK621210000230_00	Newkirk Country Club Lake	41	L	3	2016	X	X				X	X		X						
OK621210000240_00	Deer Creek	8.70	R	3	2016	X	X				X	X		X						
OK621210000260_00	Newkirk Lake	21	L	3	2016	X	X				X	X		X						

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OK621210000270_00	Chilocco Creek	16.31	R	**4a**	2015	F	F				**N**	X		**N**						
OK621210000275_00	Rockford Creek	4.56	R	3	2016	X	X				X	X		X						
OK621210000280_00	Osage Creek	5.49	R	3	2016	X	X				X	X		X						
OK621210000290_00	Little Osage Creek	4.45	R	3	2016	X	X				X	X		X						

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OK720500010010_00	**Canadian River, North**	**37.36**	**R**	**5a**	**2016**	F	F				**N**	F		**N**		F				
OK720500010020_00	**Canton Lake**	**7,910**	**L**	**5a**	**2014**	F	F				**N**	F		F		F				
OK720500010030_00	Red Bluff Cut Off Lake	1	L	3	2016	X	X				X	X		X						
OK720500010040_00	Cheyenne Creek	5.75	R	3	2016	X	X				X	X		X		X				
OK720500010050_00	Seiling Creek	7.13	R	3	2016	I	I				I	X		X						
OK720500010060_00	Deep Creek	12.11	R	3	2016	I	I				I	X		X		X				
OK720500010070_00	Bent Creek	18.13	R	**4a**	2016	F	**N**				F	X		**N**		I				
OK720500010080_00	Camp Creek	8.53	R	2	2016	I	I				F	X		X		X				
OK720500010090_00	Kizer Creek	15.94	R	3	2016	X	X				X	X		X		X				
OK720500010100_00	Kizer Creek, North	9.63	R	3	2016	X	X				X	X		X						
OK720500010110_00	Cottonwood Creek	10.18	R	3	2016	X	X				X	X		X		X				
OK720500010120_00	Cottonwood Creek, North	6.29	R	3	2016	X	X				X	X		X						
OK720500010130_00	Mutual Creek	7.02	R	3	2016	X	X				X	X		X						
OK720500010140_00	Canadian River, North	18.55	R	3	2016	X	X				X	X		X		X				
OK720500010140_10	Beaver River (North Canadian)	11.50	R	**4a**	2016	F	F				F	F		**N**						
OK720500010140_20	Canadian River, North	22.64	R	2	2016	I	F				I	X		X						
OK720500010150_00	Persimmon Creek	13.45	R	**4a**	2016	I	F				F	X		**N**		I				
OK720500010160_00	Hackberry Creek	10.01	R	3	2016	X	X				X	X		X						
OK720500010170_00	Persimmon Creek, North	20.42	R	3	2016	X	X				X	X		X		X				
OK720500010180_00	Persimmon Creek, South	10.39	R	3	2016	X	X				X	X		X		X				
OK720500010190_00	Sand Creek	9.78	R	3	2016	X	X				X	X		X						
OK720500010200_00	Indian Creek	17.03	R	**4a**	2016	I	F				F	X		**N**		I				

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Waterbody ID	Waterbody Name	Size (Lake Acres or Stream Miles)	Type	Category	Next Monitoring Date	Aesthetic	Agriculture	Cool Water Aquatic Comm	Habitat Limited Aquatic Comm	Trout Fishery	Warm Water Aquatic Comm	Fish Consumption	Navigation	Primary Body Contact Rec	Secondary Body Contact Rec	Public & Private Water Supply	Emergency Water Supply	High Quality Water	Outstanding Resource Water	Sensitive Water Supply
OK720500010210_00	Mooreland Creek	4.00	R	3	2016	X	X				X	X		X						
OK720500010220_00	Bull Creek	5.23	R	3	2016	X	X				X	X		X						
OK720500010230_00	Boggy Creek	4.64	R	3	2016	X	X				X	X		X						
OK720500010240_00	Boiling Springs Creek	1.66	R	3	2016	X	X				X	X		X						
OK720500010250_00	Woodward Creek	5.46	R	3	2016	X	X				X	X		X						
OK720500010260_00	Crystal Beach Lake	10	L	3	2016	I	X				X	X		X						
OK720500010270_00	Spring Creek	6.42	R	3	2016	X	X				I	X		X						
OK720500010280_00	Field Station Lake	10	L	3	2016	I	X				X	X		X						
OK720500010290_00	Sand Creek	7.38	R	3	2016	I	I				I	X		I						
OK720500010300_00	Roundup Creek	2.31	R	3	2016	X	X				X	X		X						
OK720500020010_00	**Beaver River (North Canadian)**	**40.07**	**R**	**5a**	**2016**	F	F				F	**N**		**N**						
OK720500020030_00	Wolf Creek	5.57	R	**4a**	2016	I	F				**N**	X		**N**		X				✓
OK720500020040_00	Sand Creek	11.50	R	3	2016	X	X				X	X		X						
OK720500020050_00	Otter Creek	13.55	R	**4a**	2016	I	F				F	X		**N**		I				
OK720500020060_00	Otter Creek, East	9.65	R	3	2016	X	X				X	X		X						
OK720500020070_00	Clear Creek	29.74	R	**4a**	2016	F	F				F	I		**N**		I				
OK720500020080_00	Dry Prong Creek	9.37	R	3	2016	X	X				X	X		X						
OK720500020100_00	**Spring Creek**	**6.67**	**R**	**5a**	**2016**	F	F				**N**	X		**N**						
OK720500020110_00	Spring Creek, North Fork	6.15	R	3	2016	X	X				X	X		X						
OK720500020120_00	Spring Creek, South Fork	8.90	R	3	2016	X	X				X	X		X						
OK720500020130_00	**Kiowa Creek**	**34.54**	**R**	**5a**	**2016**	F	F				**N**	I		**N**		I				
OK720500020140_00	**Beaver River (North Canadian)**	**38.96**	**R**	**5a**	**2012**	I	**N**				**N**	**N**		**N**						

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OK720500020150_00	Camp Creek	18.91	R	3	2016	X	X				X	X		X		X				
OK720500020160_00	Sand Creek	19.45	R	3	2016	X	X				X	X		X		X				
OK720500020170_00	Indian Creek	11.92	R	3	2016	X	X				X	X		X						
OK720500020180_00	Don Jose Creek	9.12	R	3	2016	X	X				X	X		X						
OK720500020190_00	Coon Creek	18.37	R	3	2016	X	X				X	X		X		X				
OK720500020200_00	Kiowa Creek, North Fork	14.72	R	3	2016	X	X				X	X		X						
OK720500020210_00	Mexico Creek	9.42	R	3	2016	X	X				X	X		X		X				
OK720500020220_00	Evans Chambers Lake	80	L	3	2016	X	X				I	X		X						
OK720500020230_00	Kidds Creek	8.29	R	3	2016	X	X				X	X		X						
OK720500020240_00	Knowles Creek	7.21	R	3	2016	X	X				X	X		X						
OK720500020250_00	Duck Pond Creek	40.62	R	**4a**	2016	F	F				F	X		**N**		I				
OK720500020260_00	Camp Creek	13.29	R	3	2016	X	X				X	X		X		X				
OK720500020270_00	Spring Creek	7.19	R	3	2016	X	X				X	X		X						
OK720500020280_00	Timber Creek	8.02	R	3	2016	X	X				X	X		X						
OK720500020290_00	**Beaver River (North Canadian)**	**31.37**	**R**	**5a**	**2016**	F	**N**				**N**	F		**N**						
OK720500020300_00	**Clear Creek**	**23.48**	**R**	**5c**	**2016**	F	F				**N**	X		F		F				
OK720500020310_00	Cottonwood Creek	11.82	R	3	2016	X	X				X	X		X		X				
OK720500020330_00	Clear Creek, South Fork	19.37	R	3	2016	X	X				X	X		X		X				
OK720500020340_00	Clear Creek, North Fork	25.35	R	3	2016	X	X				X	X		X		X				
OK720500020350_00	Spring Creek	11.22	R	3	2016	X	X				X	X		X						
OK720500020370_00	Beaver Pioneer Creek	7.25	R	3	2016	X	X				X	X		X						
OK720500020380_00	Home Creek	11.49	R	3	2016	X	X				X	X		X		X				

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OK720500020390_00	Sixmile Creek	23.85	R	3	2016	X	X				X	X		X		X				
OK720500020400_00	Dugout Creek	15.72	R	3	2016	X	X				X	X		X						
OK720500020410_00	Elm Creek	14.86	R	3	2016	X	X				X	X		X						
OK720500020420_00	Willow Creek	14.47	R	3	2016	X	X				X	X		X		X				
OK720500020430_00	Sharp Creek	11.57	R	3	2016	X	X				X	X		X		X				
OK720500020440_00	Short Creek	6.91	R	3	2016	X	X				X	X		X						
OK720500020450_00	**Beaver River (North Canadian)**	**28.20**	**R**	**5a**	**2012**	I	**N**				**N**	F		**N**						
OK720500020450_10	Beaver River (North Canadian)	2.59	R	3	2016	X	X				I	X		X						
OK720500020460_00	Jackson Creek	22.24	R	3	2016	X	X				X	X		X		X				
OK720500020470_00	Jackson Creek, East Fork	11.62	R	3	2016	X	X				X	X		X						
OK720500020480_00	Bull Creek	17.48	R	3	2016	X	X				X	X		X		X				
OK720500020490_00	Red Horse Creek	9.42	R	3	2016	X	X				X	X		X						
OK720500020500_00	**Palo Duro Creek**	**15.84**	**R**	**5a**	**2016**	I	**N**				**N**	I		**N**		I				
OK720500020500_10	Palo Duro Creek	4.40	R	**4a**	2016	F	F				F	X		**N**		I				
OK720500020510_00	Fulton Creek	17.51	R	3	2016	X	X				X	X		X		X				
OK720500020520_00	Sand Creek	8.60	R	3	2016	X	X				X	X		X		X				
OK720500020530_00	Chiquita Creek	15.03	R	3	2016	X	X				X	X		X		X				
OK720500020540_00	Webb Lake	1	L	3	2016	X	X				X	X		X						
OK720500020550_00	Cottonwood Creek	7.63	R	3	2016	X	X				X	X		X						
OK720500020560_00	Hachberry Creek	18.99	R	3	2016	X	X				X	X		X		X				
OK720500020570_00	Peacher Creek	4.61	R	3	2016	X	X				X	X		X						
OK720500020580_00	Sand Draw	5.62	R	3	2016	X	X				X	X		X						

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OK720500020590_00	Dry Creek	18.14	R	3	2016	X	X				X	X		X						
OK720500030010_00	Wolf Creek	43.05	R	**4a**	2016	F	F				F	F		**N**		I				✓
OK720500030020_00	**Fort Supply Lake**	**1,880**	**L**	**5a**	**2016**	I	F				**N**	F		F		**N**				✓
OK720500030030_00	Eightmile Creek	11.39	R	3	2016	X	X				X	X		X						
OK720500030040_00	Turkey Creek	12.64	R	2	2016	X	X				F	X		X						
OK720500030050_00	Sixteenmile Creek	16.61	R	3	2016	X	X				X	X		X		X				✓
OK720500030060_00	Boggy Creek	18.50	R	3	2016	X	X				X	X		X						
OK720500030070_00	Little Wolf Creek	14.78	R	3	2016	X	X				X	X		X		X				✓
OK720500030080_00	Buzzard Creek	10.10	R	2	2016	F	F				I	X		I		I				✓
OK720500030090_00	Twentyfivemile Creek	20.19	R	3	2016	I	I				I	X		X		X				✓
OK720500030100_00	Willow Creek	12.04	R	3	2016	X	X				X	X		X		X				✓
OK720500030110_00	Rock Creek	14.92	R	3	2016	X	X				X	X		X		X				✓
OK720500030130_00	Six Pony Creek	10.82	R	3	2016	X	X				X	X		X						
OK720500030140_00	Ivanhoe Creek	13.85	R	3	2016	X	X				X	X		X						
OK720500030150_00	Long Creek	11.75	R	3	2016	X	X				X	X		X						
OK720510000020_00	Beaver River (North Canadian)	4.60	R	3	2016	X	X				X	X		X		X				
OK720510000030_00	Optima Lake	5,340	L	3	2016	X	X				X	X		X						
OK720510000035_00	Ann Ruth's Stream	1.86	R	3	2016	X	X				X	X		X						
OK720510000040_00	Coldwater Creek	18.73	R	3	2016	X	X				X	X		X		X				
OK720510000050_00	Frisco Creek	18.38	R	3	2016	X	X				X	X		X						
OK720510000060_00	Frisco Creek, North Fork	18.47	R	3	2016	X	X				X	X		X						
OK720510000080_00	Aqua Fria Creek	21.11	R	3	2016	X	X				X	X		X						

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OK720510000090_00	Pony Creek	33.57	R	3	2016	X	X				X	X		X		X				
OK720510000100_00	Beaver River (North Canadian)	16.00	R	3	2016	X	X				X	X		X		X				
OK720510000110_00	Goff Creek	57.44	R	3	2016	X	X				X	X		X		X				
OK720510000115_00	Leftover creek	4.27	R	3	2016	X	X				X	X		X						
OK720510000120_00	Cow Creek	21.50	R	3	2016	X	X				X	X		X						
OK720510000140_00	Little Goff Creek	19.02	R	3	2016	X	X				X	X		X						
OK720510000150_00	Dry Sand Draw	14.12	R	3	2016	X	X				X	X		X						
OK720510000160_00	Sunset Lake	10	L	3	2016	X	X				X	X		X						
OK720510000190_00	Beaver River (North Canadian)	42.54	R	**4a**	2016	F	F				I	F		**N**		I				
OK720510000190_10	Beaver River (North Canadian)	55.81	R	3	2016	X	X				X	X		X		X		✓		
OK720510000200_00	Tepee Creek	32.17	R	3	2016	X	X				X	X		X		X				
OK720510000210_00	Spring Aroa Creek	9.75	R	3	2016	X	X				X	X		X						
OK720510000220_00	Sand Creek	40.78	R	3	2016	X	X				X	X		X		X				
OK720510000230_00	Sand Creek, North	13.38	R	3	2016	X	X				X	X		X						
OK720510000240_00	Cienequilla Creek	7.55	R	3	2016	X	X				X	X		X		X				
OK720510000275_00	**Corrumpa Creek**	**12.94**	**R**	**5a**	**2016**	F	I				**N**	X		I		X		✓		
OK720900000010_00	**Cimarron River**	**46.82**	**R**	**5a**	**2016**	F	I				I	X		**N**		F		✓		
OK720900000020_00	Burrows Draw	4.90	R	3	2016	X	X				X	X		X						
OK720900000030_00	Nevitt Draw	5.84	R	3	2016	X	X				X	X		X						
OK720900000040_00	King Draw	3.69	R	3	2016	X	X				X	X		X						
OK720900000050_00	Picket House Draw, South	8.94	R	3	2016	X	X				X	X		X		X				
OK720900000060_00	Picket House Draw, North	7.30	R	3	2016	X	X				X	X		X						

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OK720900000070_00	Flagg Springs Creek	8.89	R	3	2016	X	X				X	X		X						
OK720900000080_00	Ute Canyon Creek	6.39	R	3	2016	X	X				X	X		X						
OK720900000100_00	**Cold Springs Creek**	**29.19**	**R**	**5a**	**2016**	F	I				**N**	X		I		I				
OK720900000110_00	Canyon Creek, North	6.36	R	3	2016	X	X				X	X		X						
OK720900000120_00	Red Canyon Creek	3.38	R	3	2016	X	X				X	X		X						
OK720900000130_00	Gallinas Canyon Creek	5.43	R	3	2016	X	X				X	X		X		X				
OK720900000140_00	Bingaman Canyon Creek	3.53	R	3	2016	X	X				X	X		X						
OK720900000150_00	Lane Canyon Creek	4.77	R	3	2016	X	X				X	X		X						
OK720900000160_00	Sand Canyon Creek	1.04	R	3	2016	X	X				X	X		X						
OK720900000170_00	Pat Canyon Creek	2.63	R	3	2016	X	X				X	X		X						
OK720900000180_00	**Cimarron River**	**19.24**	**R**	**5a**	**2016**	I	**N**				**N**	X		**N**		I		✓		
OK720900000190_00	Water Canyon Creek	8.22	R	3	2016	X	X				X	X		X		X				
OK720900000200_00	**Carrizo Creek, South**	**19.55**	**R**	**5a**	**2016**	I	I				**N**	X		I		I				
OK720900000210_00	Cottonwood Canyon Creek	8.28	R	3	2016	X	X				X	X		X		X				
OK720900000220_00	Willow Creek	8.81	R	3	2016	X	X				X	X		X						
OK720900000230_00	Swede Creek	7.23	R	3	2016	X	X				X	X		X						
OK720900000240_00	**Carl Etling Lake**	**159**	**L**	**5a**	**2016**	I	**N**				**N**	I		F		X				
OK720900000250_00	Easley Canyon Creek	4.49	R	3	2016	X	X				X	X		X						
OK720900000260_00	Tesesquite Creek	11.10	R	3	2016	X	X				X	X		X		X				
OK720900000270_00	Burrows Canyon Creek	2.07	R	3	2016	X	X				X	X		X						
OK720900000280_00	Carrizo Creek, North	7.15	R	3	2016	I	I				I	X		I		I				
OK720900000290_00	Road Canyon Creek	4.63	R	3	2016	X	X				X	X		X						

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OK720900000300_00	Coopers Arroyo Creek	3.69	R	3	2016	X	X				X	X		X						
OK720900000310_00	Blacksmith Canyon Creek	3.14	R	3	2016	X	X				X	X		X						
OK720900000320_00	Carrizozo Creek	1.03	R	3	2016	X	X				X	X		X		X				

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Appendix C

2014 Oklahoma 303(d) List of Impaired Waters

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120400010070_00	**Webbers Falls Lake**	**11,600.00 ACRES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	
Enterococcus	PBCR	46, 108, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120400010130_00	**Greenleaf Lake**	**920.00 ACRES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Chlorophyll-a***	PPWS	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120400010400_00	**Coody Creek**	**16.16 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42532
Escherichia coli	PBCR	TMDL Completed	4a	42532

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120400020010_00	**Dirty Creek**	**44.18 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42533
Oxygen, Dissolved	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120400020030_00	**Dirty Creek, South Fork**	**15.55 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42535
Oxygen, Dissolved	WWAC	46, 85, 87, 92, 108, 111, 133, 136, 140	5a	
Sulfates	AG	49, 62, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120400020110_00	**Dirty Creek, Georges Fork**	**10.05 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42536
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	
Fishes Bioassessments	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 133, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120400020160_00	**Butler Creek**	**10.34 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42538
Escherichia coli	PBCR	TMDL Completed	4a	42538
Oxygen, Dissolved	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120400020190_00	**Elk Creek**	**13.96 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 62, 85, 87, 92, 108, 111, 133, 136, 140	5a	
Sulfates	AG	49, 87, 140	5b	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120400020240_00	**Shady Grove Creek**	**10.80 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42539
pH	WWAC	8, 102, 140	5a	
Sulfates	AG	49, 140	5b	
Total Dissolved Solids	AG	49, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120410010080_00	**Arkansas River**	**41.89 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	SBCR	TMDL Completed	4a	35681

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120410010100_00	**Cloud Creek**	**4.77 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42540
Sulfates	AG	49, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120410010210_00	**Haikey Creek**	**10.90 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Diazinon	WWAC	140	5a	
Macroinvertebrate Bio	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Escherichia coli	PBCR	TMDL Completed	4a	35680

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120410010220_00	**Snake Creek**	**31.43 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42541

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420010010_00	**Arkansas River**	**16.74 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	SBCR	TMDL Completed	4a	35669
Turbidity	WWAC	46, 85, 108, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420010010_10	**Arkansas River**	**7.32 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Cadmium	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420010060_00	**Fred Creek**	**2.87 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Macroinvertebrate Bio	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420010070_00	**Mooser Creek**	**3.79 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Cause Name - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420010090_00	**Crow Creek**	**2.99 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Fishes Bioassessments	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Macroinvertebrate Bio	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	84, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420010130_00	**Arkansas River**	**12.65 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	46, 85, 108, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420010140_00	**Bigheart Creek**	**4.48 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Fishes Bioassessments	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420010170_00	**Harlow Creek**	**5.69 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
****Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Fishes Bioassessments	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420010340_00	**Little Joe Creek, Unnamed Trib of**	**2.19 MILES**	**5c**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Macroinvertebrate Bio	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Fishes Bioassessments	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420020040_00	**Nickel Creek**	**12.29 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	46, 92, 108, 111, 128, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420020050_00	**Polecat Creek**	**7.68 MILES**	**5c**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Enterococcus	PBCR	TMDL Completed	4a	42568

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420020060_00	**Rock Creek**	**4.05 MILES**	**5c**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Macroinvertebrate Bio	WWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420020130_00	**Sahoma Lake**	**312.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420020160_00	**Childres Creek**	**7.18 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

*****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK120420020300_00	**Heyburn Lake**	**880.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	
Turbidity	WWAC	140	5a	
Mercury	FC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121300010010_00	**Bird Creek**	**23.81 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	40585
Escherichia coli	PBCR	TMDL Completed	4a	40585

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121300010050_00	**Mill Creek**	**3.68 MILES**	**5c**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Fishes Bioassessments	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Macroinvertebrate Bio	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121300010060_00	**Ranch Creek**	**6.94 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	40972

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121300010090_00	**Coal Creek**	**6.71 MILES**	**5c**	**2014**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Macroinvertebrate Bio	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Escherichia coli	PBCR	TMDL Completed	4a	40582

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121300010150_00	**Delaware Creek**	**26.26 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 59, 92, 108, 111, 133, 136, 140	5a	
Macroinvertebrate Bio	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121300020010_10	**Bird Creek**	**35.63 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	39211

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121300030040_00	**Birch Lake**	**1,137.00 ACRES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121300030230_00	**Pawhuska Lake**	**96.00 ACRES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121300030300_00	**Bluestem Lake**	**762.00 ACRES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121300040010_00	**Hominy Creek**	**12.75 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	39215
****Oxygen, Dissolved***	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	

**Cause Name* - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121300040280_00	**Hominy Creek**	**33.89 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	39160
Total Dissolved Solids	AG	49, 97, 102, 140	5b	
Chloride	AG	49, 97, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121300040350_00	**Hominy Lake**	**165.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121400010010_10	**Caney River**	**46.50 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	39216
Turbidity	WWAC	TMDL Completed	4a	39216
****Lead***	FC	82, 85, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121400010270_00	**Curl Creek**	**17.27 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	39217
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121400010300_00	**Hogshooter Creek**	**20.02 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	39219
Escherichia coli	PBCR	TMDL Completed	4a	39219
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121400020010_10*	**Caney River**	**25.54 MILES**	**5c**	**2022** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121400020140_00	**Little Caney River (Caney Creek)**	**6.85 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	39218
Turbidity	WWAC	TMDL Completed	4a	39218

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121400020190_00	**Mission Creek**	**18.22 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	39220
Enterococcus	PBCR	TMDL Completed	4a	39220

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121400030020_00	**Hulah Lake**	**3,570.00 ACRES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121400030170_00	**Buck Creek**	**22.22 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	
****Macroinvertebrate Bio***	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5c	

****Cause Name*** - Indicates new cause listing for 2014   **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121400040010_00	**Sand Creek**	**59.85 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	37064
****Turbidity***	WWAC	46, 49, 87, 102, 108, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121400050020_00	**Copan Lake**	**4,850.00 ACRES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorophyll-a	PPWS	TMDL Completed	4a	60880
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121500010200_00	**Verdigris River**	**6.11 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Turbidity***	WWAC	TMDL Completed	4a	42569
Enterococcus	PBCR	TMDL Completed	4a	42569

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121500020090_00	**Bull Creek**	**17.55 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 87, 92, 100, 108, 133, 136, 140	5a	
Enterococcus	PBCR	TMDL Completed	4a	42574

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121500020100_00	**Pea Creek**	**10.23 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42579
Escherichia coli	PBCR	TMDL Completed	4a	42579

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121500020150_00	**Adams Creek**	**18.02 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	46, 84, 92, 108, 111, 133, 136, 156, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121500020260_00	**Verdigris River**	**18.71 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42571
Turbidity	WWAC	TMDL Completed	4a	42571

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121500020360_00	**Dog Creek**	**10.08 MILES**	**5c**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42580
Escherichia coli	PBCR	TMDL Completed	4a	42580
Oxygen, Dissolved	WWAC	TMDL Completed	4a	31658
Macroinvertebrate Bio	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121500020390_00	**Cat Creek**	**7.04 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	84, 85, 140	5a	
Fishes Bioassessments	WWAC	140	5c	
Escherichia coli	PBCR	84, 85, 140	5a	
Oxygen, Dissolved	WWAC	TMDL Completed	4a	31657
Sulfates	AG	140	5b	

Cause Name* - Indicates new cause listing for 2014 **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121500030010_00	**Verdigris River**	**10.43 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42572
Turbidity	WWAC	38, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121500040010_00	**Dog Creek**	**16.87 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	84, 92, 156, 140	5a	
**pH*	WWAC	2, 92, 102, 140	5a	
**Fishes Bioassessments*	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121500040020_00	**Claremore Lake**	**470.00 ACRES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorophyll-a	PPWS	TMDL Completed	4a	60900

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121510010020_00	**Oologah Lake**	**29,460.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121510010040_00	**Spencer Creek**	**4.31 MILES**	**5b**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Total Dissolved Solids	AG	140	5b	
Sulfates	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121510010110_00	**Campbell Creek**	**3.79 MILES**	**5b**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Total Dissolved Solids	AG	56	5b	
Sulfates	AG	56	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121510010120_00	**Plumb Creek**	**5.52 MILES**	**5b**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	
Sulfates	AG	140	5b	
Total Dissolved Solids	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121510010130_00	**Lightning Creek**	**14.40 MILES**	**5b**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	82, 127, 140	5b	
Total Dissolved Solids	AG	82, 127	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121510010140_00	**Panther Creek**	**6.97 MILES**	**5b**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	82, 140	5b	
Total Dissolved Solids	AG	82, 140	5b	

__Cause Name__ - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121510020010_00	**Verdigris River**	**37.43 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	50980
Turbidity	WWAC	TMDL Completed	4a	50814
Lead	WWAC	49, 85, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121510020050_00	**California Creek**	**25.39 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	50980
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121510030010_00	**Big Creek**	**34.74 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	50814

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600010010_00	**Neosho River**	**1.00 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42581

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600010050_00	**Fort Gibson Lake**	**12,464.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 108, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600010060_00	**Ranger Creek**	**7.94 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	34847

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600010100_00	**Fourteenmile Creek**	**25.45 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	34848

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600010200_00	**Fort Gibson Lake, Upper**	**4,814.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600010280_00	**Neosho River**	**14.26 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	WWAC	62, 85, 140	5a	
Oxygen, Dissolved	WWAC	46, 62, 85, 92, 108, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600010290_00	**Spring Creek**	**39.70 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 59, 85, 92, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600010430_00	**Chouteau Creek**	**22.25 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42582
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 136, 140	5a	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600010440_00	**Crutchfield Branch**	**5.07 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	34849
Escherichia coli	PBCR	TMDL Completed	4a	34849

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600020030_10	**Saline Creek**	**28.12 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	58701

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600020050_00	**WR Holway Reservoir (Chimney Rock Lake)**	**712.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600020070_00	**Little Saline Creek**	**10.50 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	58702

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600020170_00	**Neosho River**	**10.89 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 62, 85, 108, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600030020_00	**Grand Lake O' the Cherokees, Lower**	**10,051.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	FC	82, 140	5a	
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600030030_00	**Grand Lake O' the Cherokees, Middle**	**19,584.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	FC	82, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600030040_00	**Grand Lake O' The Cherokees, Upper**	**8,670.00 ACRES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	FC	82, 140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600030090_00	**Drowning Creek**	**8.66 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	34851
Escherichia coli	PBCR	TMDL Completed	4a	34851

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600030160_00	**Horse Creek**	**10.06 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	34852
Chloride	AG	140	5b	
pH	WWAC	140	5a	
Ammonia (Un-ionized)	WWAC	85, 92, 140	5a	
Oxygen, Dissolved	WWAC	85, 92, 156, 140	5a	

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK121600030190_00	**Little Horse Creek**		**6.46 MILES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	34854
Escherichia coli	PBCR	TMDL Completed		4a	34854
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 111, 133, 136, 140		5a	
******Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		5c	
OK121600030340_00	**Cave Springs Branch**		**4.48 MILES**	**5b**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed		4a	34855
******Total Dissolved Solids***	AG	49, 102, 140		5b	
OK121600030445_00	**Honey Creek**		**4.85 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	34857
Escherichia coli	PBCR	TMDL Completed		4a	34857
OK121600030445_10	**Honey Creek**		**4.64 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	58704
OK121600030510_00	**Sycamore Creek**		**7.36 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	34858
OK121600040010_00	**Neosho River**		**16.57 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Lead	WWAC	49, 85, 140		5a	
OK121600040040_00	**Hudson Creek**		**8.28 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed		4a	50814
Oxygen, Dissolved	WWAC	4, 46, 59, 92, 108, 133, 136, 156, 140		5a	
OK121600040060_00	**Tar Creek**		**11.67 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Lead	HLAC	16, 140		5a	
OK121600040062_00	**Blue Goose Mill Pond**		**5.00 ACRES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Lead	FC	82		5a	
OK121600040063_00	**Northwest Western Chat Pile Pond**		**1.00 ACRES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Lead	FC	82		5a	
OK121600040064_00	**Western Chat Pile Mill Pond**		**1.00 ACRES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Lead	FC	82		5a	

Cause Name* - Indicates new cause listing for 2014 **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600040105_00	**Atlas Chat Pile Pond**	**10.00 ACRES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	FC	82	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600040130_00	**Cow Creek**	**12.42 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	50814
Oxygen, Dissolved	WWAC	46, 92, 108, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600040170_00	**Fourmile Creek**	**7.10 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 92, 133, 136, 146, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600040200_00	**Russell Creek**	**11.48 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 92, 108, 133, 136, 140	5a	
Sulfates	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600040220_00	**Neosho River**	**13.97 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	50814
Lead	FC	49, 85, 140	5a	
Sedimentation/Siltation	WWAC	49, 85, 140	5a	
Macroinvertebrate Bio	WWAC	46, 49, 87, 92, 102, 108, 111, 136, 140	5c	
Enterococcus	PBCR	TMDL Completed	4a	50814

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600050020_00	**Spavinaw Lake**	**1,584.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Phosphorus (Total)	AES	TMDL Completed	4a	38670
Chlorophyll-a	PPWS	4, 59, 146, 140	5a	
Oxygen, Dissolved	WWAC	4, 46, 92, 108, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600050070_00	**Eucha Lake (Upper Spavinaw)**	**2,860.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Phosphorus (Total)	AES	TMDL Completed	4a	38667
Chlorophyll-a	PPWS	4, 59, 146, 140	5a	
Oxygen, Dissolved	WWAC	4, 46, 59, 92, 108, 133, 136, 146, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600050160_00	**Beaty Creek**	**12.44 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	58707

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600050180_00	**Cloud Creek**	**12.93 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	58708

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121600060060_10	**Big Cabin Creek**	**4.16 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	49, 140	5b	

******Cause Name*** - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK121600060080_00	**Little Cabin Creek**		**32.31 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	50980
Oxygen, Dissolved	WWAC	46, 85, 87, 92, 108, 111, 133, 136, 140		5a	
OK121600060200_00	**Bull Creek**		**10.83 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	4, 59, 62, 68, 84, 85, 92, 140		5a	
Chloride	AG	140		5b	
Sulfates	AG	140		5b	
Total Dissolved Solids	AG	140		5b	
OK121600060220_00	**Big Cabin Creek**		**11.58 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Sulfates	AG	49, 97, 140		5b	
OK121600060240_00	**Pawpaw Creek**		**18.40 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Total Dissolved Solids	AG	140		5b	
Oxygen, Dissolved	WWAC	46, 92, 108, 133, 136, 156, 140		5a	
Sulfates	AG	140		5b	
OK121600070010_00	**Spring River**		**22.11 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Lead	FC	49, 85		5a	
Turbidity	CWAC	46, 108, 140		5a	
OK121600070110_00	**Fivemile Creek**		**5.81 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	50814
OK121610000050_10	**Pryor Creek**		**4.97 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	58709
Oxygen, Dissolved	WWAC	46, 85, 87, 92, 108, 111, 128, 133, 136, 140		5a	
****pH***	WWAC	8, 92, 102, 140		5a	
OK121610000090_00	**Pryor Creek**		**2.35 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed		4a	58709
Oxygen, Dissolved	WWAC	84, 85, 92, 156, 140		5a	
OK121610000090_10*	**Pryor Creek**		**12.12 MILES**	**5a**	**2022** NEW
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
****Oxygen, Dissolved***	WWAC	46, 59, 87, 92, 108, 111, 136, 140		5a	
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		5c	
OK121700010010_00*	**Illinois River**		**9.47 MILES**	**5a**	**2022** NEW
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
****Oxygen, Dissolved***	Trout	140		5a	

****Cause Name*** - Indicates new cause listing for 2014   **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700020020_00	**Tenkiller Ferry Lake**	**8,442.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Phosphorus (Total)	AES	140	5a	
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700020110_00	**Chicken Creek**	**3.54 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Fishes Bioassessments	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700020220_00	**Tenkiller Ferry Lake, Illinois River Arm**	**5,032.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorophyll-a	PPWS	4, 59, 108, 136, 146, 140	5a	
Phosphorus (Total)	AES	4, 59, 108, 136, 146, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700020270_00*	**Park Hill Branch**	**6.86 MILES**	**5c**	**2022** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
***Macroinvertebrate Bio**	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700030010_00	**Illinois River**	**7.68 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	4, 46, 59, 92, 108, 133, 136, 146, 140	5a	
Phosphorus (Total)	AES	4, 46, 59, 85, 92, 100, 108, 146, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700030040_00	**Tahlequah Creek (Town Branch)**	**6.21 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	46, 92, 108, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700030080_00	**Illinois River**	**31.68 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	4, 46, 59, 92, 108, 133, 136, 146, 140	5a	
Lead	CWAC	140	5a	
Phosphorus (Total)	AES	4, 46, 59, 108, 133, 136, 146, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700030280_00	**Illinois River**	**15.65 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Phosphorus (Total)	AES	4, 46, 59, 92, 108, 133, 136, 146, 140	5a	
Turbidity	CWAC	46, 59, 85, 108, 140	5a	
Escherichia coli	PBCR	46, 59, 85, 92, 100, 108, 136, 140	5a	
Enterococcus	PBCR	46, 59, 85, 92, 100, 108, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700030290_00	**Flint Creek**	**1.60 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Phosphorus (Total)	AES	4, 46, 59, 92, 108, 133, 136, 146, 140	5a	
Oxygen, Dissolved	CWAC	4, 46, 59, 92, 108, 133, 136, 146, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700030350_00	**Illinois River**	**5.18 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	4, 46, 59, 92, 100, 108, 111, 133, 136, 146, 140	5a	
Escherichia coli	PBCR	4, 46, 59, 92, 100, 108, 111, 133, 136, 146, 140	5a	
Phosphorus (Total)	AES	4, 34, 46, 59, 92, 100, 133, 136, 146, 140	5a	

***Cause Name** - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700030370_00	**Ballard Creek**	**12.60 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	4, 46, 59, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700040010_00	**Caney Creek**	**20.92 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 59, 92, 100, 108, 140	5a	
Escherichia coli	PBCR	46, 59, 85, 92, 100, 108, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700050010_00	**Illinois River, Baron Fork**	**25.15 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 59, 85, 92, 100, 108, 136, 140	5a	
Escherichia coli	PBCR	46, 59, 85, 92, 100, 108, 136, 140	5a	
Phosphorus (Total)	AES	4, 46, 59, 92, 108, 133, 136, 146, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700050090_00	**Tyner Creek**	**15.92 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	4, 46, 59, 92, 108, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700050120_00	**Peacheater Creek**	**10.95 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	4, 46, 59, 92, 100, 108, 128, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700050170_10	**Illinois River, Baron Fork**	**7.78 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 59, 92, 108, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700060010_00	**Flint Creek**	**7.75 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	4, 46, 59, 92, 100, 108, 111, 133, 136, 146, 140	5a	
Escherichia coli	PBCR	46, 59, 92, 108, 136, 140	5a	
Phosphorus (Total)	AES	4, 46, 59, 85, 92, 100, 108, 146, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700060040_00	**Battle Creek (Battle Branch)**	**5.43 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	4, 46, 59, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK121700060080_00	**Sager Creek**	**4.15 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	CWAC	85, 92, 108, 140	5a	
Sedimentation/Siltation	CWAC	140	5a	
Enterococcus	PBCR	4, 46, 59, 85, 92, 108, 133, 136, 146, 140	5a	
Macroinvertebrate Bio	CWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100010010_00	**Poteau River**	**23.89 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	FC	49, 85, 140	5a	
Turbidity	WWAC	TMDL Completed	4a	58800
Lead	WWAC	49, 85, 140	5a	

**Cause Name* - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100010010_30	**Poteau River**	**2.24 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	PPWS	140	5a	
Silver	WWAC	140	5a	
Selenium	WWAC	140	5a	
Lead	FC	140	5a	
Lead	WWAC	140	5a	
Cadmium	WWAC	140	5a	
Copper	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100010010_40	**Poteau River**	**21.35 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	58820
Copper	WWAC	140	5a	
Lead	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100010050_00	**New Spiro Lake**	**254.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorophyll-a	PPWS	140	5a	
Oxygen, Dissolved	WWAC	46, 92, 108, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100010180_00	**Caston Creek**	**14.43 MILES**	**5c**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Macroinvertebrate Bio	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100010265_00*	**Rock Creek Tributary!**	**2.01 MILES**	**5c**	**2022** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100020010_10	**Poteau River**	**27.04 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 59, 85, 92, 100, 108, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100020020_00	**Wister Lake**	**7,333.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorophyll-a	PPWS	140	5a	
pH	WWAC	140	5a	
Phosphorus (Total)	AES	140	5a	
Turbidity	WWAC	140	5a	
Mercury	FC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100020040_00	**Poteau River, Black Fork**	**28.60 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	WWAC	140	5a	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100020060_00	**Cedar Lake**	**78.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 92, 108, 133, 136, 140	5a	
pH	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100030010_00	**Brazil Creek**	**17.83 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	58760

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100040020_00	**Fourche Maline Creek**	**36.94 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	35634
Lead	WWAC	49, 85, 140	5a	
Oxygen, Dissolved	WWAC	46, 62, 69, 85, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100040050_00	**Red Oak Creek**	**10.95 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 85, 92, 108, 133, 136, 140	5a	
pH	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100040080_00	**Bandy Creek**	**12.44 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Fishes Bioassessments	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100040100_00	**Lloyd Church Lake (Wilburton City)**	**160.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	WWAC	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220100040150_00	**Wayne Wallace Lake**	**94.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 92, 108, 133, 136, 140	5a	
pH	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220200010010_00	**Arkansas River**	**20.59 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 59, 92, 108, 136, 140	5a	
****Total Dissolved Solids***	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220200020020_00	**Robert S. Kerr Lake**	**43,380.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220200020040_00	**Little Sallisaw Creek**	**17.59 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Copper	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220200030010_10	**Sallisaw Creek**	**9.00 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	140	5a	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK220200030010_20	**Sallisaw Creek**		**13.30 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	58780
OK220200030040_00	**Brushy Creek Lake**		**358.00 ACRES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chlorophyll-a	PPWS	140		5a	
pH	WWAC	140		5a	
OK220200030120_00	**Stilwell City Lake**		**188.00 ACRES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 108, 133, 136, 140		5a	
****Turbidity***	WWAC	140		5a	
OK220200040010_10	**Sans Bois Creek**		**10.76 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	58782
Sulfates	AG	140		5b	
OK220200040010_40	**Sans Bois Creek**		**27.80 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	35635
Escherichia coli	PBCR	TMDL Completed		4a	35635
Oxygen, Dissolved	WWAC	4, 46, 59, 85, 92, 108, 133, 136, 140		5a	
OK220200040050_00	**Sans Bois Creek, Mountain Fork**		**13.63 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed		4a	35626
OK220200050010_00	**Lee Creek**		**1.87 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 133, 136, 146, 140		5a	
Lead	CWAC	49, 146, 140		5a	
OK220200050010_10	**Lee Creek**		**15.66 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Lead	CWAC	49, 140		5a	
OK220600010050_00	**Eufaula Lake, Canadian River Arm**		**19,040.00 ACRES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	140		5a	
OK220600010060_00*	**Eufaula Lake, Longtown Creek Arm**		**3,857.00 ACRES**	**5a**	**2019** NEW
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
****Turbidity***	WWAC	140		5a	
OK220600010070_10	**Longtown Creek**		**12.14 MILES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	35627
Escherichia coli	PBCR	TMDL Completed		4a	35627
Oxygen, Dissolved	WWAC	92, 156, 140		5a	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK220600010100_20	**Mill Creek**		**24.16 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	35628
OK220600010119_10	**Canadian River**		**39.08 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	58783
Turbidity	WWAC	TMDL Completed		4a	58783
Lead	FC	49, 85, 140		5a	
Sedimentation/Siltation	WWAC	46, 85, 87, 108, 140		5a	
Fishes Bioassessments	WWAC	49, 85, 140		5c	
OK220600010130_00	**Hay Creek**		**4.70 MILES**	**5c**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Oil and Grease	AES	140		5c	
Oil and Grease	WWAC	140		5c	
OK220600010160_00*	**Gobbler Creek**		**7.80 MILES**	**5c**	**2022** NEW
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		5c	
OK220600020030_00	**McAlester Lake**		**1,521.00 ACRES**	**5a**	**2016**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	140		5a	
Mercury	FC	140		5c	
OK220600020050_00*	**Talawanda 2 Lake**		**195.00 ACRES**	**5a**	**2016** NEW
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
****pH***	WWAC	140		5a	
OK220600020060_00	**Talawanda 1 Lake**		**91.00 ACRES**	**5a**	**2016**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
pH	WWAC	140		5a	
OK220600030010_00	**Brushy Creek**		**2.96 MILES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	35630
Lead	FC	49, 85, 140		5a	
Turbidity	WWAC	46, 108, 140		5a	
Oil and Grease	AES	49, 102, 140		5c	
Oil and Grease	WWAC	49, 102, 140		5c	
Oil and Grease	PPWS	49, 102, 140		5c	
OK220600030010_10	**Brushy Creek**		**25.03 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	35631
Escherichia coli	PBCR	TMDL Completed		4a	35631

**Cause Name* - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220600030010_20*	**Brushy Creek**	**11.30 MILES**	**5a**	**2019** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Oxygen, Dissolved***	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220600030020_00	**Blue Creek**	**10.68 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	35636
Escherichia coli	PBCR	TMDL Completed	4a	35636

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220600030050_00	**Peaceable Creek**	**17.14 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	35632
Escherichia coli	PBCR	TMDL Completed	4a	35632
Oxygen, Dissolved	WWAC	46, 85, 87, 92, 108, 111, 133, 136, 140	5a	
Sulfates	AG	49, 62, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220600030080_00	**Bull Creek**	**3.29 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Copper	WWAC	62	5a	
Lead	WWAC	62	5a	
Zinc	WWAC	62	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220600030090_00*	**Brown Lake**	**139.00 ACRES**	**5a**	**2019** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Lead***	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220600040010_00	**Gaines Creek**	**38.22 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oil and Grease	PPWS	97, 140	5c	
Oil and Grease	WWAC	97, 140	5c	
Oxygen, Dissolved	WWAC	92, 156, 140	5a	
pH	WWAC	140	5a	
Oil and Grease	AES	97, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220600040030_00	**Beaver Creek**	**9.11 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	35633
Oxygen, Dissolved	WWAC	92, 156, 140	5a	
pH	WWAC	140	5a	
Turbidity	WWAC	156, 140	5a	
Oil and Grease	AES	97, 140	5c	
Oil and Grease	WWAC	97, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220600040040_00	**Pit Creek**	**7.65 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	2, 140	5b	
Total Dissolved Solids	AG	140	5b	
pH	WWAC	140	5a	
Oxygen, Dissolved	WWAC	156, 140	5a	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220600050010_00	**Eufaula Lake, Gaines Creek Arm**	**24,990.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK220600050060_00	**Mud Creek**	**6.85 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	TMDL Completed	4a	831

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800010011_00	**Texoma Lake, Washita River Arm, Lower**	**19,214.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	
Chloride	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800010051_00	**Old Channel (of Washita)**	**4.62 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800010090_00	**Big Sandy Creek**	**13.57 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800010190_00	**Mill Creek**	**37.86 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	4, 46, 85, 92, 100, 108, 111, 128, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800010240_00	**Oil Creek**	**19.47 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800020010_00	**Washita River**	**31.58 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	FC	49, 85, 140	5a	
Enterococcus	PBCR	TMDL Completed	4a	33274
Turbidity	WWAC	TMDL Completed	4a	39164

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800020040_00	**Sand Branch**	**6.24 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	39165

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800020100_00	**Arbuckle Lake (Lake of the Arbuckles)**	**2,350.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800020190_00	**Chigley Sandy Creek**	**14.31 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	33276
Escherichia coli	PBCR	TMDL Completed	4a	33276

*__Cause Name__ - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030010_00	**Caddo Creek**	**44.08 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42415
Escherichia coli	PBCR	TMDL Completed	4a	42415

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030010_06	**Caddo Creek**	**16.82 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	
Total Dissolved Solids	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030260_00	**Russell Pretty Branch**	**5.17 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030265_00	**Briar Branch**	**3.88 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030280_00	**Pruitt Branch**	**4.97 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030285_00	**Pruitt West Creek!**	**3.94 MILES**	**5c**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030290_00	**Russell Pretty Branch, Trib A!**	**1.00 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	
Total Dissolved Solids	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030330_00	**Caddo Creek, Clemscott Branch!**	**3.04 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030340_00	**Briar Branch Trib.B!**	**1.16 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030350_00	**Briar Branch Trib.A!**	**1.42 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030360_00	**Caddo Creek, Fox Branch!**	**3.11 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030370_00	**Caddo Creek Trib.!**	**3.34 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

******Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030380_00	**Caddo Creek, North Branch**	**3.80 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030390_00	**Caddo Creek North Branch Trib!**	**1.46 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310800030410_00	**Caddo Creek North Fork Trib!**	**1.08 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810010010_10	**Washita River**	**32.87 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	33277
Turbidity	WWAC	TMDL Completed	4a	39166

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810010020_00	**Wildhorse Creek**	**8.97 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810010050_00	**Kickapoo Sandy Creek**	**10.19 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	39167
Enterococcus	PBCR	TMDL Completed	4a	39167

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810010090_10	**Rush Creek**	**10.30 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
****Turbidity***	WWAC	46, 49, 87, 102, 108, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810010180_00	**Pauls Valley Lake**	**750.00 ACRES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810010190_00	**Washington Creek**	**6.49 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	39170
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810010220_00	**Maysville Lake (Wiley Post)**	**302.00 ACRES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810010270_00	**Rush Creek, Trib G!**	**4.03 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	TMDL Completed	4a	53310

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810010280_00	**Washita River Trib 14-1N-1E!**	**1.71 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	97	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810020010_00	**Washita River**	**63.16 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	FC	49, 85, 140	5a	
Enterococcus	PBCR	TMDL Completed	4a	39171
Turbidity	WWAC	TMDL Completed	4a	39171

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810020020_00	**Finn Creek**	**14.15 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42423

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810020170_00	**Roaring Creek**	**18.27 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	33279
Escherichia coli	PBCR	TMDL Completed	4a	33279

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810020200_00	**Laflin Creek**	**12.60 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	33280
Escherichia coli	PBCR	TMDL Completed	4a	33280
Fishes Bioassessments	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810020220_00*	**Winter Creek**	**12.44 MILES**	**5c**	**2025** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810020260_00	**Stealy Creek!**	**5.15 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	70	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810030010_00	**Wildhorse Creek**	**22.30 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Chloride	AG	102	5b	
Enterococcus	PBCR	TMDL Completed	4a	42425

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810030080_00	**Salt Creek**	**19.05 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Chloride	AG	46, 102, 140	5b	
****Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Enterococcus	PBCR	TMDL Completed	4a	42424

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810030130_00	**Countyline Creek**	**4.44 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Cause Name* - Indicates new cause listing for 2014   **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810030140_00	**N. Pernell Creek, North**	**3.34 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810030145_00	**Pernell Creek!**	**2.96 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810030160_00	**Pernell Creek, Trib.B!**	**0.77 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810030180_00	**Sandy Bear Creek, West Fork!**	**5.46 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810030200_00	**South Tatums!**	**1.57 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810030210_00	**Ratliff East Creek!**	**4.42 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810030240_00	**Ratliff West Creek! Trib.!**	**0.98 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810030250_00	**Countyline Creek Trib.3!**	**1.15 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810030260_00	**Wildhorse Creek Trib.B!**	**3.30 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810030270_00	**Wildhorse Creek Trib. A!**	**2.09 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810040015_00	**West County Line Creek**	**3.28 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810040020_00	**Panther Creek**	**5.36 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810040050_00	**Fuqua Lake**	**1,500.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK310810040120_00	**Clear Creek Lake (Chisholm)**		**722.00 ACRES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
****Chlorophyll-a***	PPWS	140		5a	
Sulfates	AG	140		5b	
OK310810040140_00	**Wildhorse Creek**		**11.13 MILES**	**5c**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	39172
Escherichia coli	PBCR	TMDL Completed		4a	39172
****Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		5c	
OK310810040150_00	**Humphreys Lake**		**882.00 ACRES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chlorophyll-a	PPWS	140		5a	
OK310810040170_00	**Owens Creek**		**5.23 MILES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Macroinvertebrate Bio	WWAC	140		5c	
OK310810040180_00	**West County Line Creek Trib.!**		**2.53 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chloride	AG	140		5b	
OK310810040200_00	**Black Bear Trib 10!**		**2.65 MILES**	**5b**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chloride	AG	102		5b	
OK310810040230_00	**Northwest Alma Creek**		**1.87 MILES**	**5b**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chloride	AG	102		5b	
OK310810040240_00	**Velma East Creek!**		**3.96 MILES**	**5b**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chloride	AG	102		5b	
OK310810040250_00	**Velma Creek!**		**2.42 MILES**	**5b**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chloride	AG	102		5b	
OK310810040260_00	**Velma Creek West Branch!**		**1.25 MILES**	**5b**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chloride	AG	102		5b	
Sulfates	AG	140		5b	
OK310810040280_00	**Passmore Cemetery Creek Trib B!**		**2.03 MILES**	**5b**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chloride	AG	102, 140		5b	
OK310810040290_00	**Wildhorse Creek Trib 10-1S-5W!**		**4.15 MILES**	**5b**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chloride	AG	140		5b	

****Cause Name*** - Indicates new cause listing for 2014   **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810050010_00*	**Rush Creek**	**58.40 MILES**	**5c**	**2025** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
***Fishes Bioassessments**	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810050060_00	**Taylor Lake (Marlow City)**	**227.00 ACRES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810050120_00	**Rush Creek, Trib E!**	**3.40 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	TMDL Completed	4a	53309

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810050130_00	**Cox City!**	**3.21 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	TMDL Completed	4a	53307

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310810050140_00	**West Cox City!**	**1.50 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	TMDL Completed	4a	53308

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310820010030_00	**Bitter Creek**	**6.02 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	33281
Enterococcus	PBCR	TMDL Completed	4a	33281

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310820010160_00	**Ionine Creek**	**6.45 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310820010170_00	**Jack Hollow Creek**	**4.87 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310820020010_00	**Little Washita River**	**36.98 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42414

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310820020080_00	**Bills Creek, West**	**6.54 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310820020110_00	**McCarty Creek**	**8.49 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	
Sulfates	AG	102	5b	
Total Dissolved Solids	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310820020140_00	**Allen's Lake**	**10.00 ACRES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

****Cause Name*** - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK310830010010_00	**Washita River**		**20.68 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed		4a	39173
Sedimentation/Siltation	WWAC	46, 85, 87, 108, 140		5a	
Fishes Bioassessments	WWAC	140		5c	
Enterococcus	PBCR	TMDL Completed		4a	33282
OK310830010030_00	**Delaware Creek**		**11.68 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chloride	AG	49, 102, 140		5b	
****Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		5c	
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		5c	
OK310830020010_00*	**Washita River**		**29.70 MILES**	**5c**	**2025** NEW
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
****Sedimentation/Siltation***	WWAC	46, 87, 108, 140		5a	
****Fishes Bioassessments***	WWAC	46, 85, 87, 108, 140		5c	
OK310830020020_00	**Stinking Creek**		**18.36 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	39174
Escherichia coli	PBCR	TMDL Completed		4a	39174
Chloride	AG	49, 97, 140		5b	
OK310830020060_10	**Rainy Mountain Creek**		**32.33 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chloride	AG	49, 97, 140		5b	
OK310830030010_00	**Washita River**		**49.32 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed		4a	33283
Turbidity	WWAC	TMDL Completed		4a	39176
Enterococcus	PBCR	TMDL Completed		4a	33283
OK310830030070_00	**Cavalry Creek**		**20.30 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140		5a	
****Sulfates***	AG	49, 102, 140		5b	
****Total Dissolved Solids***	AG	49, 102, 140		5b	
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140		5a	
OK310830030100_00	**Boggy Creek**		**24.89 MILES**	**5c**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	42417
Escherichia coli	PBCR	TMDL Completed		4a	42417
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		5c	

****Cause Name*** - Indicates new cause listing for 2014   **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310830030190_00	**Beaver Creek**	**22.54 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	49, 140	5b	
Total Dissolved Solids	AG	49, 140	5b	
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310830030200_00	**Barnitz Creek**	**8.87 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Fishes Bioassessments	WWAC	140	5c	
Total Dissolved Solids	AG	140	5b	
Sulfates	AG	140	5b	
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310830030210_00	**Barnitz Creek, East**	**26.48 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42416
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Sulfates	AG	49, 140	5b	
Total Dissolved Solids	AG	49, 140	5b	
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310830030230_00	**Barnitz Creek, West**	**38.35 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42418
Sulfates	AG	49, 140	5b	
Total Dissolved Solids	AG	49, 140	5b	
Fishes Bioassessments	WWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310830030280_00	**Clinton Lake**	**335.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorophyll-a	PPWS	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310830040010_00	**Spring Creek**	**16.76 MILES**	**5a**	**2023**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	42422
Sulfates	AG	49, 140	5b	
****Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Enterococcus	PBCR	TMDL Completed	4a	42422

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310830040030_00	**Stinking Creek**	**11.33 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	140	5a	
Sulfates	AG	49, 140	5b	
Total Dissolved Solids	AG	49, 140	5b	
Fishes Bioassessments	WWAC	140	5c	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310830050010_00	**Sugar Creek**	**32.40 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Fishes Bioassessments	WWAC	140	5c	
*** *Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Total Dissolved Solids	AG	49, 140	5b	
Sulfates	AG	49, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310830060020_00	**Fort Cobb Lake**	**4,100.00 ACRES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Phosphorus (Total)	AES	TMDL Completed	4a	23066
Chlorophyll-a	PPWS	TMDL Completed	4a	23066

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310830060030_00	**Willow Creek**	**9.24 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	33285
Escherichia coli	PBCR	TMDL Completed	4a	33285

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310830060050_00	**Cobb Creek**	**17.34 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42419
Escherichia coli	PBCR	TMDL Completed	4a	42419

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310830060080_00	**Fivemile Creek**	**12.22 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42420
Escherichia coli	PBCR	TMDL Completed	4a	42420

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310830060130_00	**Crowder Lake**	**158.00 ACRES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorophyll-a	PPWS	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310840010010_00	**Washita River**	**18.62 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	33286
Fishes Bioassessments	WWAC	140	5c	
Sedimentation/Siltation	WWAC	46, 85, 87, 108, 140	5a	
Lead	FC	49, 85, 140	5a	
Escherichia coli	PBCR	TMDL Completed	4a	33286
Turbidity	WWAC	TMDL Completed	4a	39177

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310840010020_00*	**Foss Lake**	**8,800.00 ACRES**	**5a**	**2019** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
*** *Turbidity***	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310840010060_00	**Quartermaster Creek**	**32.98 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	33278
Escherichia coli	PBCR	TMDL Completed	4a	33278
Sulfates	AG	49, 140	5b	
Total Dissolved Solids	AG	49, 140	5b	
****Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Fishes Bioassessments	WWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310840020010_00	**Washita River**	**61.94 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	39178

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310840020020_00	**Sandstone Creek**	**14.59 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	39180
Sulfates	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK310840020240_00	**Spring Creek**	**5.90 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	140	5a	
Fishes Bioassessments	WWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311100010080_00	**Texoma Lake, Red River Arm, Upper**	**11,466.00 ACRES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311100010190_00*	**Red River**	**47.84 MILES**	**5a**	**2019** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Turbidity***	WWAC	TMDL Completed	4a	42452
****Enterococcus***	PBCR	46, 59, 85, 92, 111, 133, 136, 140	5a	
****Sulfates***	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311100010190_20	**Red River**	**46.43 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42448
Turbidity	WWAC	TMDL Completed	4a	42448
Lead	FC	49, 85, 140	5a	
Selenium	WWAC	46, 87, 108, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311100010230_00	**Bills Creek**	**8.43 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	85, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311100010250_00	**Walnut Bayou**	**10.82 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 136, 140	5a	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311100010290_00	**Red Creek**	**17.42 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	39183
Turbidity	WWAC	TMDL Completed	4a	39183
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	
Enterococcus	PBCR	TMDL Completed	4a	39183

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311100010300_00	**Fleetwood Creek**	**10.91 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311100020010_10	**Hickory Creek**	**37.28 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311100020090_00	**Lake Murray**	**5,458.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311100030130_00	**Healdton Municipal Lake**	**370.00 ACRES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311100040010_00	**Mud Creek**	**49.53 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	39186
Oxygen, Dissolved	WWAC	46, 87, 108, 140	5a	
Enterococcus	PBCR	TMDL Completed	4a	33287

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311100040045_00	**Oak Creek!**	**3.04 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Total Dissolved Solids	AG	97	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311100040080_00	**Mud Creek, Lower West**	**27.81 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	33288
Escherichia coli	PBCR	TMDL Completed	4a	33288
Turbidity	WWAC	TMDL Completed	4a	39187
Oxygen, Dissolved	WWAC	92, 156, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311100040090_00	**Post Oak Creek**	**7.53 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	

******Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311200000010_00	**Red River**	**30.02 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	49, 140	5b	
Total Dissolved Solids	AG	49, 140	5b	
Chloride	AG	49, 140	5b	
Selenium	WWAC	140	5a	
Turbidity	WWAC	TMDL Completed	4a	42449
Enterococcus	PBCR	TMDL Completed	4a	42449
Selenium	PPWS	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311200000030_00	**Beaver Creek**	**30.69 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	
Enterococcus	PBCR	TMDL Completed	4a	39188

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311200000060_00	**Cow Creek**	**25.73 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	33289
Enterococcus	PBCR	TMDL Completed	4a	33289

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311200000080_00	**Dry Creek**	**20.96 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	92, 140	5a	
Escherichia coli	PBCR	92, 140	5a	
Turbidity	WWAC	TMDL Completed	4a	39190
Enterococcus	PBCR	92, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311200000110_00	**Claridy Creek**	**8.43 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oil and Grease	AES	70	5c	
Oil and Grease	WWAC	70	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311200000120_00	**Willow Creek**	**7.32 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oil and Grease	WWAC	70	5c	
Oil and Grease	AES	70	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311210000020_00	**Waurika Lake**	**10,100.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	
Chlorophyll-a	PPWS	TMDL Completed	4a	53302

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311210000030_00	**Walker Creek**	**10.02 MILES**	**5b**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Cause Name* - Indicates new cause listing for 2014 **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK311210000050_00	**Little Beaver Creek**		**39.49 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	42444
Escherichia coli	PBCR	TMDL Completed		4a	42444
OK311210000060_00*	**Stage Stand Creek**		**12.94 MILES**	**5c**	**2022** NEW
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
******Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		5c	
OK311210000140_00	**Whisky Creek**		**10.28 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	33290
Escherichia coli	PBCR	TMDL Completed		4a	33290
OK311210000150_00	**Cottonwood Creek**		**7.21 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	33291
Escherichia coli	PBCR	TMDL Completed		4a	33291
Sulfates	AG	140		5b	
OK311300010020_00	**Cache Creek, East**		**9.05 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	33292
Escherichia coli	PBCR	TMDL Completed		4a	33292
Turbidity	WWAC	TMDL Completed		4a	39191
OK311300010020_10	**Cache Creek, East**		**17.11 MILES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	33292
Turbidity	WWAC	TMDL Completed		4a	39192
Lead	FC	140		5a	
OK311300010080_00	**Walters Lake (Boyer)**		**148.00 ACRES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
******Chlorophyll-a***	PPWS	140		5a	
Turbidity	WWAC	140		5a	
OK311300010100_00	**Cache Creek, Unnamed Trib of East**		**8.57 MILES**	**5b**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chloride	AG	102		5b	
Total Dissolved Solids	AG	102		5b	
OK311300020010_10	**Cache Creek, East**		**17.08 MILES**	**5a**	**2016**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	140		5a	
Oxygen, Dissolved	WWAC	46, 62, 87, 92, 108, 111, 128, 133, 136, 140		5a	
Sulfates	AG	49, 97, 140		5b	

******Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK311300030020_00	**Ellsworth Lake**		**5,600.00 ACRES**	**5a**	**2016**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chlorophyll-a	PPWS	TMDL Completed		4a	53306
Turbidity	WWAC	140		5a	
OK311300030070_00	**Tahoe Creek**		**16.79 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Sulfates	AG	140		5b	
Oil and Grease	AES	140		5c	
Oil and Grease	WWAC	140		5c	
Oil and Grease	PPWS	140		5c	
Escherichia coli	PBCR	TMDL Completed		4a	33293
OK311300040050_00	**Elmer Thomas Lake**		**334.00 ACRES**	**5a**	**2016**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140		5a	
Mercury	FC	140		5c	
OK311300040060_00	**Medicine Creek**		**17.71 MILES**	**5a**	**2016**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	140		5a	
OK311300040070_00	**Lawtonka Lake**		**2,398.00 ACRES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chlorophyll-a	PPWS	TMDL Completed		4a	53301
OK311310010010_00	**Red River**		**88.02 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Selenium	WWAC	140		5a	
****Fishes Bioassessments***	WWAC	140		5c	
Total Dissolved Solids	AG	49, 140		5b	
Sulfates	AG	49, 140		5b	
Turbidity	WWAC	46, 87, 108, 140		5a	
****Sedimentation/Siltation***	WWAC	46, 87, 108, 140		5a	
Enterococcus	PBCR	TMDL Completed		4a	33294
Chloride	AG	49, 140		5b	
OK311310010025_00	**Hound Creek**		**7.56 MILES**	**5b**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chloride	AG	102		5b	
Sulfates	AG	102		5b	
OK311310010070_00	**Suttle Creek**		**19.41 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed		4a	39193
Chloride	AG	49, 102, 140		5b	
Sulfates	AG	49, 102, 140		5b	
Total Dissolved Solids	AG	49, 102, 140		5b	

Cause Name* - Indicates new cause listing for 2014 **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311310020010_00	**Cache Creek, West**	**9.10 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	33295
Total Dissolved Solids	AG	49, 102, 140	5b	
******Chloride***	AG	49, 102, 140	5b	
Enterococcus	PBCR	TMDL Completed	4a	33295
Turbidity	WWAC	TMDL Completed	4a	39194

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311310020010_10	**Cache Creek, West**	**19.17 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311310020060_00	**Blue Beaver Creek**	**18.33 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	92, 156, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311310020068_00	**Rush Lake**	**53.00 ACRES**	**5c**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Mercury	FC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311310020130_00	**Quanah Parker Lake**	**89.00 ACRES**	**5c**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Mercury	FC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311310020150_00	**Panther Creek**	**7.48 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Fishes Bioassessments	WWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311310030010_00	**Deep Red Creek**	**57.29 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	49, 102, 140	5b	
Total Dissolved Solids	AG	49, 102, 140	5b	
Chloride	AG	49, 102, 140	5b	
Turbidity	WWAC	TMDL Completed	4a	39195
Escherichia coli	PBCR	TMDL Completed	4a	39195
Enterococcus	PBCR	TMDL Completed	4a	39195

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311310030040_00	**Little Deep Red Creek**	**33.57 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	140	5a	
Oxygen, Dissolved	WWAC	140	5a	
Chloride	AG	46, 102, 140	5b	
Sulfates	AG	46, 102, 140	5b	
Total Dissolved Solids	AG	46, 102, 140	5b	
******Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Fishes Bioassessments	WWAC	140	5c	
Enterococcus	PBCR	140	5a	

Cause Name - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311310030050_00	**Brush Creek**	**11.64 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	84, 92, 140	5a	
Oil and Grease	AES	140	5c	
Total Dissolved Solids	AG	140	5b	
Oil and Grease	WWAC	140	5c	
Turbidity	WWAC	TMDL Completed	4a	39198
Escherichia coli	PBCR	TMDL Completed	4a	33296
Enterococcus	PBCR	TMDL Completed	4a	33296
Chloride	AG	140	5b	
Sulfates	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311310030120_00	**Frederick Lake**	**925.00 ACRES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311500010020_10	**Red River, North Fork**	**61.70 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	34831
Escherichia coli	PBCR	46, 85, 108, 136, 140	5a	
Selenium	WWAC	140	5a	
Chloride	AG	58, 140	5b	
Sulfates	AG	58, 140	5b	
Total Dissolved Solids	AG	58, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311500010050_00	**Stinking Creek**	**17.44 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	34850
Sulfates	AG	140	5b	
Chloride	AG	140	5b	
Nitrates	PPWS	84, 92, 100, 140	5a	
Escherichia coli	PBCR	TMDL Completed	4a	34850
Turbidity	WWAC	TMDL Completed	4a	39200

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311500010080_00	**Otter Creek**	**23.13 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	39201
****Escherichia coli***	PBCR	TMDL Completed	4a	39201
Chloride	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311500010110_00	**Tepee Creek**	**19.44 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	49, 140	5b	
Sulfates	AG	49, 140	5b	
Total Dissolved Solids	AG	49, 140	5b	

Cause Name* - Indicates new cause listing for 2014 **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311500020040_00	**Otter Creek, West**	**6.77 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	34833
Enterococcus	PBCR	TMDL Completed	4a	34833

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311500020060_00	**Tom Steed Lake (Mountain Park)**	**6,400.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	
Chlorophyll-a	PPWS	TMDL Completed	4a	41064

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311500030010_00	**Elk Creek**	**15.70 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	34834
Escherichia coli	PBCR	TMDL Completed	4a	34834
Turbidity	WWAC	TMDL Completed	4a	39202
Selenium	WWAC	140	5a	
****Chloride***	AG	49, 102, 140	5b	
****Macroinvertebrate Bio***	WWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311500030040_00	**Little Elk Creek**	**15.40 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311500030060_00	**Rocky (Hobart) Lake**	**347.00 ACRES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorophyll-a	PPWS	TMDL Completed	4a	41063
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311500030070_00	**Trail Creek**	**19.15 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Sulfates	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311500030120_00	**Elk City Lake**	**240.00 ACRES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311510010020_00	**Altus Lake (Altus-Lugert)**	**6,260.00 ACRES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311510010040_00	**Lake Creek**	**13.33 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42451
Escherichia coli	PBCR	TMDL Completed	4a	42451

Cause Name - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK311510010090_00	**Timber Creek**		**12.01 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	42447
Escherichia coli	PBCR	TMDL Completed		4a	42447
****Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		5c	
OK311510020010_00	**Red River, North Fork**		**37.86 MILES**	**5c**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Fishes Bioassessments	WWAC	140		5c	
OK311510020040_00	**Sand Creek**		**13.05 MILES**	**5c**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Fishes Bioassessments	WWAC	140		5c	
OK311510020060_00	**Turkey Creek**		**19.42 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	34837
OK311510020090_00	**Buffalo Creek**		**20.32 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed		4a	42428
Enterococcus	PBCR	TMDL Completed		4a	42428
OK311510020120_00	**Sweetwater Creek**		**16.43 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed		4a	39204
Enterococcus	PBCR	TMDL Completed		4a	39204
OK311600010020_00	**Gypsum Creek**		**28.10 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	39205
Chloride	AG	49, 102, 140		5b	
Sulfates	AG	49, 102, 140		5b	
Total Dissolved Solids	AG	49, 102, 140		5b	
****Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		5c	
Fishes Bioassessments	WWAC	140		5c	
OK311600010040_00	**Sandy Creek (Lebos)**		**39.65 MILES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Sulfates	AG	49, 102, 140		5b	
Total Dissolved Solids	AG	49, 102, 140		5b	
Chloride	AG	49, 102, 140		5b	
Selenium	HLAC	140		5a	
Turbidity	HLAC	TMDL Completed		4a	39206
Fishes Bioassessments	HLAC	140		5c	

Cause Name* - Indicates new cause listing for 2014 **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311600020010_00	**Red River, Salt Fork**	**13.67 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	34839
Lead	FC	140	5a	
Selenium	WWAC	140	5a	
Selenium	PPWS	140	5a	
**Turbidity*	WWAC	49, 87, 108, 140	5a	
Chloride	AG	140	5b	
Sulfates	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311600020010_10	**Red River, Salt Fork**	**69.63 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	34840

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311600020060_00	**Turkey Creek**	**51.64 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	49, 102, 140	5b	
Fishes Bioassessments	WWAC	140	5c	
Total Dissolved Solids	AG	49, 102, 140	5b	
Oxygen, Dissolved	WWAC	46, 92, 108, 111, 133, 136, 140	5a	
Escherichia coli	PBCR	TMDL Completed	4a	42446
Enterococcus	PBCR	TMDL Completed	4a	42446
Macroinvertebrate Bio	WWAC	140	5c	
Chloride	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311600020110_00	**Bitter Creek**	**3.60 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
DDT	FC	140	5a	
Toxaphene	FC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311600020110_05	**Bitter Creek**	**7.80 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Fishes Bioassessments	HLAC	140	5c	
Enterococcus	SBCR	TMDL Completed	4a	34841
DDT	FC	140	5a	
Toxaphene	FC	140	5a	
Chloride	AG	49, 97, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311600020110_10	**Bitter Creek**	**18.57 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
DDT	FC	140	5a	
Toxaphene	FC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311600020140_00	**Cave Creek**	**13.69 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	34842
Escherichia coli	PBCR	TMDL Completed	4a	34842
**Sulfates*	AG	49, 102, 140	5b	

Cause Name* - Indicates new cause listing for 2014 **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311800000010_00	**Red River, Elm Fork**	**36.63 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	34843
Escherichia coli	PBCR	TMDL Completed	4a	34843
Lead	FC	140	5a	
Selenium	WWAC	140	5a	
****Macroinvertebrate Bio***	WWAC	140	5c	
Fishes Bioassessments	WWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311800000010_10	**Red River, Elm Fork**	**25.69 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Total Dissolved Solids	AG	58, 140	5b	
Fishes Bioassessments	WWAC	140	5c	
Chloride	AG	58, 140	5b	
Selenium	WWAC	140	5a	
****Sulfates***	AG	58, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311800000040_00	**Haystack Creek**	**43.06 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	39207
Turbidity	WWAC	TMDL Completed	4a	39207
Sulfates	AG	46, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311800000060_00	**Station Creek**	**10.58 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42450
Sulfates	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311800000070_00	**Deer Creek**	**22.59 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	34844
Escherichia coli	PBCR	TMDL Completed	4a	34844
Turbidity	WWAC	TMDL Completed	4a	39208
Sulfates	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311800000130_00	**Fish Creek**	**16.84 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	49, 140	5b	
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Enterococcus	PBCR	TMDL Completed	4a	34845

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK311800000170_00	**Elm Creek, West**	**12.77 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Sulfates***	AG	49, 102, 140	5b	
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

**Cause Name* - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410100010010_10	**Red River**	**22.99 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	59164
Lead	FC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410100010050_00	**Norwood Creek**	**20.15 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
****Escherichia coli***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	4, 46, 59, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410100010340_00	**Waterhole Creek**	**16.61 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	4, 46, 59, 87, 92, 100, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410200010200_00	**Little River**	**8.20 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	CWAC	46, 82, 87, 92, 108, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410200010200_10	**Little River**	**24.14 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Silver***	CWAC	49, 56, 140	5a	
Turbidity	CWAC	TMDL Completed	4a	59165
Lead	CWAC	49, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410200010210_00	**Mud Creek**	**17.66 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	WWAC	140	5a	
Macroinvertebrate Bio	WWAC	140	5c	
Zinc	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410200030010_00	**Rock Creek**	**12.35 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 87, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	CWAC	46, 87, 92, 100, 108, 111, 133, 136, 140	5a	
pH	CWAC	155	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210010070_00	**Cypress Creek**	**20.73 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	CWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	
pH	CWAC	155	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210020020_00	**Pine Creek Lake**	**3,750.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Lead***	WWAC	140	5a	
Oxygen, Dissolved	WWAC	140	5a	
pH	WWAC	155	5a	
Mercury	FC	140	5c	

Cause Name - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210020140_00	**Little River**	**24.68 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	CWAC	TMDL Completed	4a	59168
Zinc	CWAC	140	5a	
****Silver***	CWAC	49, 56, 85, 140	5a	
Lead	FC	49, 56, 82, 85, 140	5a	
Copper	CWAC	49, 56, 85, 140	5a	
Lead	CWAC	49, 56, 82, 85, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210020300_00	**Cloudy Creek**	**25.63 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Turbidity***	CWAC	TMDL Completed	4a	59169
Oxygen, Dissolved	CWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	
pH	CWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210030020_00	**Little River, Black Fork**	**31.00 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	CWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	
pH	CWAC	155	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210040010_10	**Little River, Mountain Fork**	**1.14 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Silver***	Trout	49, 56, 140	5a	
Lead	Trout	49, 82, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210050020_00	**Broken Bow Lake**	**14,200.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Mercury	FC	140	5c	
Oxygen, Dissolved	WWAC	140	5a	
pH	WWAC	155	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210060010_10	**Little River, Mountain Fork**	**28.08 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Copper	CWAC	82, 146, 140	5a	
Lead	CWAC	49, 82, 146, 140	5a	
Silver	CWAC	49, 56, 140	5a	
Zinc	CWAC	49, 56, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210060020_00	**Buffalo Creek**	**23.38 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Turbidity***	CWAC	TMDL Completed	4a	59170
pH	CWAC	155	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210060160_00	**Big Eagle Creek**	**20.50 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	CWAC	4, 46, 59, 87, 92, 108, 111, 133, 136, 140	5a	
pH	CWAC	155	5a	

Cause Name* - Indicates new cause listing for 2014 **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210060320_00	**Beech Creek**	**12.71 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	CWAC	155	5a	
***Turbidity**	CWAC	TMDL Completed	4a	59171

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210060350_00	**Cow Creek**	**11.03 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	CWAC	155	5a	
***Turbidity**	CWAC	TMDL Completed	4a	59172
Oxygen, Dissolved	CWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210070010_00	**Lukfata Creek**	**17.80 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
***Enterococcus**	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	CWAC	4, 46, 87, 92, 100, 108, 111, 133, 136, 140	5a	
***Turbidity**	CWAC	46, 49, 87, 102, 108, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210080010_00	**Glover River**	**33.95 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
***Enterococcus**	PBCR	TMDL Completed	4a	33306
Lead	CWAC	49, 56, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410210090010_00	**Glover River, East Fork**	**21.60 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	CWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	
pH	CWAC	8, 59, 92, 102, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410300010010_00	**Kiamichi River**	**18.11 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	PPWS	49, 56, 82, 140	5a	
Lead	WWAC	49, 56, 82, 140	5a	
Lead	FC	49, 56, 82, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410300010020_00	**Gates Creek**	**4.85 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
***Turbidity**	CWAC	TMDL Completed	4a	59174

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410300010100_00*	**Bird Creek**	**8.05 MILES**	**5a**	**2019** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
***Oxygen, Dissolved**	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410300020010_10*	**Kiamichi River**	**15.53 MILES**	**5c**	**2016** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
***Fishes Bioassessments**	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410300020020_00	**Hugo Lake**	**13,250.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	WWAC	140	5a	
Turbidity	WWAC	140	5a	
Mercury	FC	140	5c	

***Cause Name** - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410300020190_00	**Rock Creek**	**13.96 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	CWAC	33, 87, 92, 108, 111, 133, 136, 140	5a	
pH	CWAC	8, 92, 102, 140	5a	
****Turbidity***	CWAC	46, 49, 87, 102, 108, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410300020220_00	**Ozzie Cobb Lake**	**116.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	WWAC	155	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410300030010_10	**Kiamichi River**	**10.30 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	FC	49, 56, 82, 140	5a	
Lead	WWAC	49, 56, 82, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410300030020_10	**Cedar Creek**	**23.36 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Turbidity***	CWAC	46, 49, 87, 102, 108, 140	5a	
pH	CWAC	8, 92, 102, 140	5a	
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	CWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410300030060_00	**One Creek**	**17.42 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	
****pH***	WWAC	2, 92, 102, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410300030210_00	**Dumpling Creek**	**13.73 MILES**	**5c**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	WWAC	155	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410300030270_00	**Tenmile Creek**	**35.75 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	92, 156, 140	5a	
pH	WWAC	155	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410300030420_00	**Buck Creek**	**35.60 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410300030580_00	**Pine Creek**	**23.49 MILES**	**5c**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	WWAC	155	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410310010010_00	**Kiamichi River**	**26.35 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	WWAC	49, 82, 140	5a	
Silver	WWAC	49, 56, 140	5a	

****Cause Name*** - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410310010220_00	**Carl Albert Lake**	**183.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	WWAC	155	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410310010230_00	**Talihina Lake**	**25.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	102, 119	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410310020010_10	**Kiamichi River**	**25.18 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Copper	WWAC	49, 56, 140	5a	
Lead	WWAC	49, 82, 140	5a	
pH	WWAC	155	5a	
Silver	WWAC	49, 56, 140	5a	
Zinc	WWAC	10, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410310020070_00	**Billy Creek**	**8.91 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	
pH	WWAC	155	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410310020100_00	**Big Cedar Creek**	**5.83 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	WWAC	155	5a	
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410310030020_00	**Sardis Lake**	**13,610.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Mercury	FC	140	5c	
****pH***	WWAC	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410310030090_00	**Bolen Creek**	**8.54 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	WWAC	155	5a	
Sulfates	AG	140	5b	
Total Dissolved Solids	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400010040_00	**Horse Creek**	**7.76 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400010060_00*	**Roebuck Lake**	**1.00 ACRES**	**5a**	**2025** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Turbidity***	WWAC	140	5a	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400010070_00	**Muddy Boggy Creek**	**21.59 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	33298
Turbidity	WWAC	TMDL Completed	4a	42476
Lead	FC	49, 85, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400010130_00	**Lick Creek**	**20.19 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
pH	WWAC	8, 92, 102, 140	5a	
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 133, 136, 140	5a	
****Escherichia coli***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400010210_00	**Whitegrass Creek**	**29.71 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
****Escherichia coli***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400020200_00	**Caney Creek**	**11.67 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
****Escherichia coli***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 133, 136, 140	5a	
pH	WWAC	8, 92, 140	5a	
****Total Dissolved Solids***	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400030010_00	**Clear Boggy Creek**	**22.76 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	FC	140	5a	
Sedimentation/Siltation	WWAC	46, 87, 108, 140	5a	
Turbidity	WWAC	TMDL Completed	4a	42468
Macroinvertebrate Bio	WWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400030120_00	**Rock Creek Lake**	**248.00 ACRES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400030240_00	**Delaware Creek**	**29.01 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400030370_00	**Leader Creek**	**29.58 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	42474
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	

Cause Name* - Indicates new cause listing for 2014   **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400030430_00*	**Sandy Creek**	**5.53 MILES**	**5c**	**2022** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400030490_00	**Goose Creek**	**15.09 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400040170_00	**Lake Creek**	**3.96 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400050270_10	**Muddy Boggy Creek**	**22.25 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	42455
Lead	WWAC	49, 85, 140	5a	
Enterococcus	PBCR	TMDL Completed	4a	42455
Lead	FC	49, 85, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400050410_00	**Boggy Creek, North**	**7.25 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	46, 92, 108, 136, 140	5a	
Sulfates	AG	140	5b	
Total Dissolved Solids	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400050415_00*	**North Boggy Creek, Unnamed Tributary of**	**3.31 MILES**	**5a**	**2016** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Oxygen, Dissolved***	HLAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	
****Sulfates***	AG	49, 102, 140	5b	
****Total Dissolved Solids***	AG	49, 102, 140	5b	
****Macroinvertebrate Bio***	HLAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400060010_30	**Muddy Boggy Creek**	**20.56 MILES**	**5c**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	WWAC	102	5a	
Chloride	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400060040_00	**Coalgate Municipal Lake**	**352.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Copper***	WWAC	140	5a	
Mercury	FC	140	5c	
Oxygen, Dissolved	WWAC	140	5a	
Turbidity	WWAC	140	5a	

Cause Name - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400060120_00	**Caney Boggy Creek**	**26.49 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	46, 87, 92, 100, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400070020_00	**McGee Creek Lake**	**3,810.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	
pH	WWAC	140	5a	
Mercury	FC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410400080020_00	**Atoka Lake**	**5,700.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	
Mercury	FC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410600010030_00	**Sulphur Creek**	**14.61 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
****Escherichia coli***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410600010090_00*	**Bokchito Creek**	**16.78 MILES**	**5a**	**2019** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410600010140_00	**Caddo Creek**	**13.96 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	46, 85, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410600010300_00	**Mineral Bayou**	**15.53 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
****Oxygen, Dissolved***	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	
****Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410600020020_00	**Sandy Creek**	**15.35 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	140	5a	
****Oxygen, Dissolved***	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410600020100_00*	**Little West Blue Creek**	**19.08 MILES**	**5c**	**2025** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK410700000260_00*	**Sand Creek**	**12.01 MILES**	**5a**	**2025** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500010020_00	**Eufaula Lake, N. Canadian River Arm**	**20,680.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500010110_10	**Canadian River, North**	**48.39 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	40589
Lead	FC	49, 85, 140	5a	
Enterococcus	PBCR	TMDL Completed	4a	40589

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500010170_00	**Bad Creek**	**19.11 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	40591

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500010200_00	**Alabama Creek**	**14.20 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	60840
Chloride	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500010242_00	**Clearview Creek**	**2.29 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	
Total Dissolved Solids	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500010270_00	**Wetumka City Lake**	**169.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500020010_00	**Wewoka Creek**	**42.99 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	40592
Escherichia coli	PBCR	TMDL Completed	4a	60860
Chloride	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500020020_00	**Greasy Creek**	**18.51 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	
pH	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500020027_00	**Cheyarha Creek, East**	**3.01 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500020090_00	**Little Wewoka Creek**	**20.44 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	60861
Enterococcus	PBCR	TMDL Completed	4a	60861

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500020190_00	**Wewoka Lake**	**371.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorophyll-a	PPWS	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500020220_00	**Sportsman Lake**	**354.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500020230_00	**Carter Creek**	**2.70 MILES**	**5c**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102, 140	5b	
Total Dissolved Solids	AG	102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500020240_00	**Wewoka Creek**	**5.36 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Cadmium	HLAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500020240_10	**Wewoka Creek**	**10.27 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Nitrates	PPWS	85, 92	5a	
Chloride	AG	102, 124, 140	5b	
Total Dissolved Solids	AG	102, 124, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500020250_00	**Magnolia Creek**	**4.81 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500020260_00	**Salt Cedar Creek**	**1.33 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	
Total Dissolved Solids	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500020260_20	**Salt Cedar Creek**	**1.06 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Total Dissolved Solids	AG	102	5b	
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500020270_00	**Wewoka Creek, Trib A!**	**5.26 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Total Dissolved Solids	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520500020280_00	**Oakwood Cemetery Creek!**	**6.69 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

*__Cause Name__ - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520510000010_00	**Canadian River, North**	**36.94 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	40595
Turbidity	WWAC	TMDL Completed	4a	40595
Lead	FC	49, 85, 140	5a	
pH	WWAC	140	5a	
****Fishes Bioassessments***	WWAC	46, 85, 87, 108, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520510000095_00	**Turkey Creek, Trib A!**	**4.26 MILES**	**5b**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520510000100_00	**Turkey Creek**	**16.42 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	
pH	WWAC	102, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520510000105_00	**Earlsboro Creek**	**5.13 MILES**	**5b**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520510000110_00	**Canadian River, North**	**3.04 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	40590
Turbidity	WWAC	TMDL Completed	4a	40590
Lead	WWAC	140	5a	
pH	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520510000110_05	**Canadian River, North**	**21.91 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Cadmium	WWAC	140	5a	
Lead	WWAC	140	5a	
Lead	FC	140	5a	
Total Dissolved Solids	AG	140	5b	
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520510000110_10	**Canadian River, North**	**20.31 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	46, 85, 87, 108, 140	5a	
Total Dissolved Solids	AG	140	5b	
Enterococcus	PBCR	46, 59, 85, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520510000110_20	**Canadian River, North**	**31.54 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	34, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	140	5a	
Enterococcus	PBCR	TMDL Completed	4a	38886

Cause Name* - Indicates new cause listing for 2014 **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520510000220_00	**Tecumseh Lake**	**127.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520510000280_00*	**Shawnee Twin Lake #1 (South)**	**1,336.00 ACRES**	**5a**	**2016** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Turbidity***	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520510000290_00	**Deer Creek, South**	**4.40 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	34, 46, 92, 111, 133, 136, 140	5a	
Oil and Grease	AES	34, 49, 97, 111, 140	5c	
Oil and Grease	WWAC	34, 49, 97, 111, 140	5c	
Oil and Grease	PPWS	34, 49, 97, 111, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520510000300_00	**Shawnee Twin Lake #2 (North)**	**1,100.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520520000010_00	**Canadian River, North**	**3.85 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	38869
Turbidity	WWAC	46, 85, 87, 108, 140	5a	
Escherichia coli	PBCR	46, 59, 85, 92, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520520000010_10	**Canadian River, North**	**13.35 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	38885
Escherichia coli	PBCR	34, 92, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520520000010_20*	**Canadian River, North**	**13.71 MILES**	**5a**	**2016** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Dieldrin***	FC	66, 140	5a	
****Escherichia coli***	PBCR	46, 59, 85, 92, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520520000010_30	**Canadian River, North**	**4.55 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	38883
Escherichia coli	PBCR	TMDL Completed	4a	38883
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520520000010_40	**Canadian River, North**	**9.78 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	
Enterococcus	PBCR	TMDL Completed	4a	38882
Escherichia coli	PBCR	34, 92, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520520000030_00	**Choctaw Creek**	**9.76 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	HLAC	140	5a	

****Cause Name*** - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520520000060_00	**Crutcho Creek**	**3.55 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520520000070_00	**Crutcho Creek**	**3.85 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	68, 84, 85, 140	5a	
Escherichia coli	PBCR	68, 84, 85, 140	5a	
Oxygen, Dissolved	WWAC	68, 84, 85, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520520000090_00	**Crutcho Creek**	**3.14 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oil and Grease	AES	33, 140	5c	
Oil and Grease	HLAC	33, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520520000110_00	**Cherry Creek**	**7.31 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Cadmium	HLAC	140	5a	
Oxygen, Dissolved	HLAC	140	5a	
Selenium	HLAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520520000150_00	**Crooked Oak Creek**	**6.98 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	
Oil and Grease	AES	84, 140	5c	
Oil and Grease	WWAC	84, 140	5c	
Oil and Grease	PPWS	84, 140	5c	
Enterococcus	PBCR	84, 85, 140	5a	
Escherichia coli	PBCR	TMDL Completed	4a	38875
Oxygen, Dissolved	WWAC	84, 85, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520520000210_00	**Canadian River, North**	**1.07 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	38881
Escherichia coli	PBCR	92, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	140	5a	
Oil and Grease	AES	70	5c	
Oil and Grease	WWAC	70	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520520000230_00	**Campbell Creek**	**5.89 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 108, 136, 156, 140	5a	
Sulfates	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520520000240_00	**Mustang Creek**	**9.16 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 111, 133, 136, 156, 140	5a	
Escherichia coli	PBCR	TMDL Completed	4a	38874

*__Cause Name__ - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK520520000250_00	**Canadian River, North**		**6.52 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	140		5a	
OK520520000260_00	**Overholser Lake**		**1,500.00 ACRES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Sulfates	AG	140		5b	
Turbidity	WWAC	140		5a	
OK520520000350_00	**Airport Heights Creek!**		**4.26 MILES**	**5a**	**2016**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	34, 84, 111, 133, 140		5a	
Turbidity	WWAC	140		5a	
OK520530000010_00	**Canadian River, North**		**10.24 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	4, 46, 92, 108, 111, 133, 136, 140		5a	
Escherichia coli	PBCR	4, 46, 92, 108, 111, 133, 136, 140		5a	
OK520530000010_10	**Canadian River, North**		**105.34 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	33888
Escherichia coli	PBCR	TMDL Completed		4a	33888
OK520530000030_00	**Shell Creek**		**9.48 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	33889
Escherichia coli	PBCR	TMDL Completed		4a	33889
Oxygen, Dissolved	WWAC	92, 156, 140		5a	
OK520530000080_00	**El Reno Lake**		**170.00 ACRES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	140		5a	
OK520530000190_00	**Minnehaha Creek**		**7.90 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Fishes Bioassessments	WWAC	140		5c	
OK520530000270_00	**Perimeter Creek!**		**3.73 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Oil and Grease	AES	34, 49, 111, 140		5c	
Oil and Grease	WWAC	34, 49, 111, 140		5c	
OK520600010010_00	**Canadian River**		**37.50 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	35619
Total Dissolved Solids	AG	140		5b	
OK520600010060_00	**Factory Creek**		**6.32 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed		4a	35615

***_Cause Name_** - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520600020010_00	**Canadian River**	**24.35 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520600020170_00	**Julian Creek**	**5.19 MILES**	**5a**	**5025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	92, 156, 140	5a	
****Chloride***	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520600020205_00	**Red Springs Creek**	**1.04 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Total Dissolved Solids	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520600030010_00	**Canadian Sandy Creek**	**37.70 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 59, 92, 108, 111, 133, 136, 140	5a	
Escherichia coli	PBCR	46, 59, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520600030020_00	**Little Sandy Creek**	**8.56 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Macroinvertebrate Bio	WWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520610010080_00	**Willow Creek**	**9.06 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorpyrifos	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520610010180_00	**Bishop Creek**	**7.82 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Chlorpyrifos	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520610010200_00*	**Merkle Creek**	**3.16 MILES**	**5c**	**2022** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520610010230_00	**Cow Creek**	**6.71 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	
Selenium	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520610020060_00	**Foreman Creek**	**4.77 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 92, 108, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520610020070_00	**Dry Creek**	**8.37 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	34, 92, 133, 136, 140	5a	
Oil and Grease	AES	34, 49, 97, 111, 140	5c	
Oil and Grease	WWAC	34, 49, 97, 111, 140	5c	
Oil and Grease	PPWS	34, 49, 97, 111, 140	5c	

****Cause Name*** - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520610020120_00	**Buggy Creek**	**26.51 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Sulfates***	AG	49, 102, 140	5b	
****Total Dissolved Solids***	AG	49, 102, 140	5b	
Enterococcus	PBCR	TMDL Completed	4a	35618
Escherichia coli	PBCR	TMDL Completed	4a	35618
****Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520610020150_10	**Canadian River**	**36.25 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	35623
Lead	FC	49, 85, 140	5a	
Turbidity	WWAC	46, 85, 87, 108, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520610020165_00	**Trib8!**	**5.97 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Arsenic	WWAC	70	5a	
Chromium (total)	WWAC	70	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520610020210_00*	**Canyon View Creek**	**7.08 MILES**	**5c**	**2022** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520610030010_00	**Walnut Creek**	**28.44 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 85, 92, 100, 108, 111, 128, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520610030080_00	**Walnut Creek, North Fork**	**16.84 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	156, 140	5a	
Enterococcus	PBCR	TMDL Completed	4a	35624
Escherichia coli	PBCR	TMDL Completed	4a	35624

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520620010120_00	**Bear Creek**	**6.29 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	30710
Escherichia coli	PBCR	TMDL Completed	4a	30710

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520620020010_00	**Canadian River**	**37.78 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520620020060_00	**Flanders Creek**	**4.54 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	155	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520620020070_00	**Fiddlers Creek**	**6.89 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	102	5b	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK520620020080_00	**Squirrel Creek**		**9.80 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Sulfates	AG	102		5b	
OK520620020090_00	**Trail Creek**		**14.34 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	30717
Sulfates	AG	49, 140		5b	
Total Dissolved Solids	AG	49, 140		5b	
OK520620030010_00	**Canadian River**		**38.09 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	156, 140		5a	
Chloride	AG	140		5b	
Sulfates	AG	140		5b	
OK520620030020_00	**Lone Creek**		**13.18 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Sulfates	AG	49, 140		5b	
Escherichia coli	PBCR	TMDL Completed		4a	30718
Enterococcus	PBCR	TMDL Completed		4a	30718
Total Dissolved Solids	AG	49, 140		5b	
OK520620030050_00	**Red Trail Creek**		**7.74 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	30747
Escherichia coli	PBCR	TMDL Completed		4a	30747
Sulfates	AG	140		5b	
OK520620030110_00	**Red Creek**		**11.82 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	30757
Escherichia coli	PBCR	TMDL Completed		4a	30757
Sulfates	AG	49, 140		5b	
OK520620040050_00	**Hackberry Creek**		**14.33 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	30759
Escherichia coli	PBCR	TMDL Completed		4a	30759
Sulfates	AG	49, 140		5b	
Total Dissolved Solids	AG	49, 140		5b	
OK520620050160_00	**Commission Creek**		**12.13 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	30730
OK520620060010_00	**Deer Creek**		**55.58 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	30723

******Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700010020_00	**Eufaula Lake, Canadian River Deep Fork**	**16,453.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700010080_00	**Gentry Creek**	**9.64 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700010110_00	**Grave Creek**	**13.94 MILES**	**5b**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700010120_00*	**Canadian River, Deep Fork**	**33.41 MILES**	**5c**	**2016** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700010140_00	**Coal Creek**	**21.72 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700010170_00	**Wolf Creek**	**5.70 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Fishes Bioassessments	WWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700010180_00	**Henryetta Lake**	**450.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Lead	WWAC	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700010220_00	**Montezuma Creek**	**22.39 MILES**	**5c**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Fishes Bioassessments	WWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700020010_10	**Canadian River, Deep Fork**	**39.26 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 85, 87, 108, 140	5c	
****Sedimentation/Siltation***	WWAC	46, 87, 108, 140	5a	
Enterococcus	PBCR	TMDL Completed	4a	41134
Turbidity	WWAC	TMDL Completed	4a	41134
Lead	FC	49, 85, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700020040_00	**Okmulgee Lake**	**668.00 ACRES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700020060_00	**Dripping Springs Lake (Salt Creek Structure 1)**	**1,150.00 ACRES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK520700020080_00	**Adams Creek**		**13.33 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140		5a	
OK520700020150_00	**Salt Creek**		**12.59 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140		5a	
Chloride	AG	140		5b	
OK520700020155_00	**Begger Creek!**		**3.61 MILES**	**5b**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chloride	AG	102		5b	
Total Dissolved Solids	AG	102		5b	
OK520700020200_00	**Nuyaka Creek**		**21.72 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	140		5a	
Oxygen, Dissolved	WWAC	140		5a	
OK520700030020_00	**Walnut Creek**		**14.71 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	140		5a	
OK520700030100_00	**Salt Creek**		**22.35 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	41065
OK520700030220_00	**Camp Creek**		**5.14 MILES**	**5c**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	41066
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		5c	
OK520700030270_00	**Hilliby Creek**		**13.39 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Fishes Bioassessments	WWAC	140		5c	
OK520700040010_00	**Canadian River, Deep Fork**		**18.10 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	41069
OK520700040020_00	**Dry Creek**		**28.27 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	41070
Escherichia coli	PBCR	TMDL Completed		4a	41070
Turbidity	WWAC	TMDL Completed		4a	41070
OK520700040180_00*	**Deer Creek**		**16.30 MILES**	**5c**	**2022** NEW
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		5c	

Cause Name* - Indicates new cause listing for 2014 **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK520700040260_00	**Quapaw Creek**		**26.81 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	41072
****Escherichia coli***	PBCR	46, 92, 111, 133, 136, 140		5a	
OK520700040370_00	**Meeker Lake**		**250.00 ACRES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	140		5a	
OK520700050010_00	**Canadian River, Deep Fork**		**25.60 MILES**	**5c**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Fishes Bioassessments	WWAC	140		5c	
OK520700050020_00	**Bellcow Creek**		**5.75 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	41078
OK520700050025_00	**Bellcow Lake**		**1,153.00 ACRES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	140		5a	
OK520700050060_00	**Chandler Lake**		**129.00 ACRES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chlorophyll-a	PPWS	140		5a	
Turbidity	WWAC	140		5a	
OK520700050080_00	**Bellcow Creek, North**		**4.56 MILES**	**5c**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Oil and Grease	AES	124		5c	
Oil and Grease	WWAC	124		5c	
OK520700050140_00	**Captain Creek**		**4.40 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	140		5a	
OK520700050200_00	**Opossum Creek**		**7.37 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed		4a	41077
OK520700050250_00	**Chandler Lake, NW Trib!**		**2.36 MILES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Oil and Grease	AES	124		5c	
Oil and Grease	WWAC	124		5c	
Oil and Grease	PPWS	124		5c	
OK520700050270_00	**West Captain Creek, Unnamed Trib of**		**6.26 MILES**	**5c**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Fishes Bioassessments	WWAC	140		5c	

Cause Name* - Indicates new cause listing for 2014 **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700060050_00	**Browns Creek**	**13.93 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700060130_10	**Little Deep Fork Creek**	**24.39 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	140	5a	
Escherichia coli	PBCR	140	5a	
Turbidity	WWAC	TMDL Completed	4a	41133

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700060140_00	**Catfish Creek**	**9.94 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	41132
Chloride	AG	140	5b	
Total Dissolved Solids	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520700060210_00	**Spring Creek, West**	**7.28 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	
Total Dissolved Solids	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520710010010_00	**Canadian River, Deep Fork**	**7.70 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Enterococcus	PBCR	46, 59, 85, 92, 108, 111, 128, 133, 136, 140	5a	
Escherichia coli	PBCR	46, 59, 85, 92, 108, 111, 128, 133, 136, 140	5a	
Macroinvertebrate Bio	WWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520710010030_00	**Coon Creek**	**12.47 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorpyrifos	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520710020020_00	**Arcadia Lake**	**1,820.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorophyll-a	PPWS	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520710020030_00	**Spring Creek**	**5.27 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	84, 140	5a	
Macroinvertebrate Bio	WWAC	140	5c	
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520710020060_00	**Canadian River, Deep Fork**	**10.07 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	84, 140	5a	
Escherichia coli	PBCR	84, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520800010010_00	**Little River**	**24.80 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	35625
Turbidity	WWAC	46, 87, 108, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520800010040_00	**Holdenville Lake**	**550.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	
Turbidity	WWAC	140	5a	
Chlorophyll-a	PPWS	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520800010050_00	**Bird Creek**	**13.81 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	49, 102, 140	5b	
Total Dissolved Solids	AG	49, 102, 140	5b	
****Macroinvertebrate Bio***	HLAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	
Ammonia (Un-ionized)	HLAC	46, 85, 92, 100, 128, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520800010055_00	**Kight Creek**	**4.55 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	
Total Dissolved Solids	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520800010060_00	**Cudjo Creek**	**5.88 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	WWAC	140	5a	
Chloride	AG	102	5b	
Total Dissolved Solids	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520800010062_00	**Bear Cub Creek**	**1.05 MILES**	**5c**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
pH	WWAC	102	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520800010090_00	**Little River**	**28.45 MILES**	**5b**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520800010130_00	**Little River**	**17.11 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	49, 102, 140	5b	
Total Dissolved Solids	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520800010150_00*	**Bird Creek, Unnamed Tributary of**	**5.15 MILES**	**5c**	**2019** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520800020080_00	**Pecan Creek**	**10.80 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oil and Grease	AES	34, 49, 97, 110, 111, 140	5c	
Oil and Grease	WWAC	34, 49, 97, 110, 111, 140	5c	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520800030010_00	**Salt Creek**	**39.02 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	4, 46, 85, 87, 100, 108, 111, 133, 136, 140	5a	
Escherichia coli	PBCR	4, 46, 85, 87, 100, 108, 111, 133, 136, 140	5a	
Chloride	AG	49, 102, 140	5b	
Total Dissolved Solids	AG	49, 102, 140	5b	
Fishes Bioassessments	WWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520800030070_00	**Bruno Creek**	**10.32 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	
Total Dissolved Solids	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520800030080_00	**Popshego Creek**	**4.38 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Barium	PPWS	102	5b	
Chloride	AG	102	5b	
Total Dissolved Solids	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520800030120_00	**Blacksmith Creek**	**5.99 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	
Total Dissolved Solids	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520810000020_00	**Thunderbird Lake**	**6,070.00 ACRES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorophyll-a	PPWS	TMDL Completed	4a	55040
Oxygen, Dissolved	WWAC	TMDL Completed	4a	55040

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520810000030_00	**Hog Creek**	**11.89 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 111, 133, 136, 140	5a	
Turbidity	WWAC	46, 49, 87, 156, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520810000040_00	**Hog Creek, West Branch**	**3.69 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	34, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520810000080_00	**Little River**	**18.64 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Total Dissolved Solids***	AG	49, 102, 140	5b	
Oxygen, Dissolved	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520810000090_00	**Rock Creek**	**5.99 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520810000100_00	**Elm Creek**	**1.44 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	140	5a	
Turbidity	WWAC	140	5a	
Total Dissolved Solids	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520810000110_00	**Elm Creek, East**	**2.40 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	34, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520810000130_00	**Stanley Draper Lake**	**2,900.00 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	
Mercury	FC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520810000140_00	**Elm Creek, West**	**8.00 MILES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Escherichia coli	PBCR	46, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK520810000175_00	**Moore Creek**	**4.02 MILES**	**5b**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Total Dissolved Solids	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900010020_00	**Keystone Lake, Cimarron River Arm, Lower**	**4,673.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900010090_00	**Keystone Lake, Cimarron River Arm, Upper**	**5,550.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900010170_10	**Cimarron River**	**26.58 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42499
Turbidity	WWAC	TMDL Completed	4a	42499
Lead	FC	49, 85, 140	5a	
****pH***	WWAC	140	5a	
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900010180_00	**Lagoon Creek**	**18.55 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42501

**Cause Name* - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900010290_00	**Euchee Creek**	**9.56 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42509
****Ammonia (Un-ionized)***	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900010310_00	**Cottonwood Creek**	**6.26 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 85, 87, 108, 140	5a	
Enterococcus	PBCR	TMDL Completed	4a	42504
Escherichia coli	PBCR	TMDL Completed	4a	42504

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900020020_00	**Salt Creek**	**14.71 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	42512
Enterococcus	PBCR	TMDL Completed	4a	42512

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900020050_00	**Council Creek**	**21.94 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42511
Escherichia coli	PBCR	TMDL Completed	4a	42511
****Turbidity***	WWAC	TMDL Completed	4a	42511
****Oxygen, Dissolved***	WWAC	46, 59, 87, 92, 108, 111, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900020120_00	**Cushing Lake**	**591.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900030010_00	**Cimarron River**	**42.09 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42492
Turbidity	WWAC	TMDL Completed	4a	42492
Lead	FC	49, 85, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900030080_00	**Dugout Creek**	**13.58 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42513
Escherichia coli	PBCR	TMDL Completed	4a	42513

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900030230_00	**Beaver Creek**	**12.65 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42502
Escherichia coli	PBCR	TMDL Completed	4a	42502
Turbidity	WWAC	TMDL Completed	4a	42502

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900030260_00	**Beaver Creek, West**	**13.21 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	42505
Enterococcus	PBCR	92, 156, 140	5a	
Escherichia coli	PBCR	92, 156, 140	5a	

**Cause Name* - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900040040_00	**Stillwater Creek**	**3.53 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	42510
Escherichia coli	PBCR	TMDL Completed	4a	42510
Turbidity	WWAC	TMDL Completed	4a	42510

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900040050_00	**Little Stillwater Creek**	**13.91 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Nitrates	PPWS	85, 92	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900040070_10	**Stillwater Creek**	**16.43 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	HLAC	46, 87, 92, 100, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900040190_00	**Boomer Lake**	**260.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Mercury	FC	140	5c	
****Chlorophyll-a***	PPWS	140	5a	
Oxygen, Dissolved	WWAC	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900040240_00	**McMurtry Lake**	**1,155.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900040270_10	**Stillwater Creek**	**6.42 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Escherichia coli***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Oxygen, Dissolved	WWAC	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620900040280_00	**Carl Blackwell Lake**	**3,370.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorophyll-a	PPWS	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910010010_00	**Cimarron River**	**8.33 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	37386
Escherichia coli	PBCR	46, 59, 85, 92, 111, 133, 136, 140	5a	
****Turbidity***	WWAC	46, 85, 87, 108, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910020010_00	**Cimarron River**	**17.84 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Selenium	WWAC	140	5a	
Enterococcus	PBCR	TMDL Completed	4a	40623
Escherichia coli	PBCR	TMDL Completed	4a	40623

Cause Name* - Indicates new cause listing for 2014 **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910020010_10	**Cimarron River**	**41.63 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Total Dissolved Solids	AG	49, 140	5b	
Sulfates	AG	49, 140	5b	
Chloride	AG	49, 140	5b	
Escherichia coli	PBCR	TMDL Completed	4a	40622
Selenium	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910020040_00	**Cooper Creek**	**40.27 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	37387
Escherichia coli	PBCR	TMDL Completed	4a	37387
******_Oxygen, Dissolved_**	WWAC	46, 59, 87, 92, 108, 111, 136, 140	5a	
Sulfates	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910020100_00*	**Salt Creek**	**4.43 MILES**	**5a**	**2025** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Total Dissolved Solids	AG	49, 102, 140	5b	
Fishes Bioassessments	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910020250_00	**Deep Creek**	**25.42 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	49, 140	5b	
Turbidity	WWAC	46, 49, 87, 102, 108, 140	5a	
Escherichia coli	PBCR	TMDL Completed	4a	37396
Enterococcus	PBCR	TMDL Completed	4a	37396

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910020270_00	**Elm Creek**	**14.15 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	37398
Turbidity	WWAC	TMDL Completed	4a	38651
Sulfates	AG	140	5b	
Enterococcus	PBCR	TMDL Completed	4a	37398

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910020310_00	**Indian Creek**	**16.71 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	37399
Escherichia coli	PBCR	TMDL Completed	4a	37399

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910030010_00	**Skeleton Creek**	**32.84 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	37402
Escherichia coli	PBCR	TMDL Completed	4a	37402
Turbidity	WWAC	TMDL Completed	4a	38652
Selenium	WWAC	140	5a	

Cause Name** - Indicates new cause listing for 2014 **Waterbody ID & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK620910030040_00	**Otter Creek**		**30.15 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	42583
Escherichia coli	PBCR	TMDL Completed		4a	42583
OK620910040010_00	**Cottonwood Creek**		**22.01 MILES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	4, 46, 92, 100, 108, 111, 128, 133, 136, 140		5a	
Enterococcus	PBCR	4, 46, 92, 100, 108, 111, 128, 133, 136, 140		5a	
OK620910040010_20	**Cottonwood Creek**		**24.39 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	37407
Escherichia coli	PBCR	TMDL Completed		4a	37407
Turbidity	WWAC	TMDL Completed		4a	38653
OK620910040060_00	**Guthrie Lake**		**274.00 ACRES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chlorophyll-a	PPWS	TMDL Completed		4a	41750
Enterococcus	PBCR	140		5a	
Turbidity	WWAC	140		5a	
OK620910040080_00	**Liberty Lake**		**167.00 ACRES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chlorophyll-a	PPWS	TMDL Completed		4a	41751
Enterococcus	PBCR	140		5a	
OK620910040100_00	**Chisholm Creek**		**21.15 MILES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Nitrates	PPWS	140		5a	
OK620910040120_00	**Deer Creek**		**12.67 MILES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed		4a	37408
Turbidity	WWAC	TMDL Completed		4a	38654
Chlorpyrifos	WWAC	140		5a	
Enterococcus	PBCR	TMDL Completed		4a	37408
OK620910040140_00	**Bluff Creek**		**9.32 MILES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	42517
Escherichia coli	PBCR	84, 85, 140		5a	
OK620910050010_00	**Kingfisher Creek**		**47.37 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	37410
Escherichia coli	PBCR	TMDL Completed		4a	37410
Turbidity	WWAC	TMDL Completed		4a	38655
Sulfates	AG	49, 102, 140		5b	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910050020_00	**Trail Creek**	**14.87 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	37412
Escherichia coli	PBCR	TMDL Completed	4a	37412
****Oxygen, Dissolved***	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910050030_00	**Uncle Johns Creek**	**27.49 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	37413
Enterococcus	PBCR	TMDL Completed	4a	37413

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910050080_00	**Winter Camp Creek**	**24.23 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	140	5b	
****Oxygen, Dissolved***	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	
Enterococcus	PBCR	TMDL Completed	4a	37414
Escherichia coli	PBCR	TMDL Completed	4a	37414

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910050150_00	**Winter Camp Creek!**	**7.73 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910060010_00	**Turkey Creek**	**82.59 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	30704
Escherichia coli	PBCR	46, 85, 92, 108, 111, 128, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910060020_00	**Little Turkey Creek**	**11.37 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	30706

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910060030_00	**Buffalo Creek**	**13.99 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	30707
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620910060110_00	**Clear Creek**	**5.18 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620920010010_00	**Cimarron River**	**43.01 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	40624
Turbidity	WWAC	TMDL Completed	4a	40624
Enterococcus	PBCR	TMDL Completed	4a	40624

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620920010080_00	**Cottonwood Creek**	**21.88 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Sulfates***	AG	49, 102, 140	5b	
Turbidity	WWAC	TMDL Completed	4a	40618

**Cause Name* - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK620920010130_00	**Griever Creek**		**20.28 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	40621
Escherichia coli	PBCR	92, 156, 140		5a	
****Sulfates***	AG	46, 102, 140		5b	
Macroinvertebrate Bio	WWAC	140		5c	
OK620920010140_00	**Griever Creek, East**		**13.36 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 136, 140		5a	
Sulfates	AG	49, 102, 140		5b	
OK620920010180_00	**Main Creek**		**19.10 MILES**	**5b**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	40617
Escherichia coli	PBCR	TMDL Completed		4a	40617
Sulfates	AG	49, 140		5b	
OK620920020010_00	**Cimarron River**		**32.63 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed		4a	40615
****Mercury***	FC	140		5c	
Fishes Bioassessments	WWAC	140		5c	
Total Dissolved Solids	AG	49, 140		5b	
Selenium	WWAC	140		5a	
Chloride	AG	49, 140		5b	
OK620920020060_00*	**Doe Creek**		**17.50 MILES**	**5c**	**2022** NEW
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		5c	
OK620920020080_00	**Long Creek**		**17.76 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	40616
Escherichia coli	PBCR	TMDL Completed		4a	40616
OK620920020170_00	**Traders Creek**		**22.09 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	156, 140		5a	
****Sulfates***	AG	49, 102, 140		5b	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620920030010_00	**Cimarron River**	**24.35 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sedimentation/Siltation	WWAC	46, 87, 108, 140	5a	
Macroinvertebrate Bio	WWAC	140	5c	
Fishes Bioassessments	WWAC	46, 87, 108, 140	5c	
Escherichia coli	PBCR	TMDL Completed	4a	40609
Enterococcus	PBCR	TMDL Completed	4a	40609
******Total Dissolved Solids***	AG	49, 102, 140	5b	
Chloride	AG	49, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620920040010_00	**Eagle Chief Creek**	**73.43 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	40625
Escherichia coli	PBCR	TMDL Completed	4a	40625

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620920040110_00	**Little Eagle Chief Creek**	**24.99 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620920050010_00	**Buffalo Creek**	**49.75 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	40612
Escherichia coli	PBCR	TMDL Completed	4a	40612
******Sulfates***	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620920050050_00	**Sand Creek**	**26.02 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	
Sulfates	AG	49, 102, 140	5b	
Escherichia coli	PBCR	TMDL Completed	4a	40614
Enterococcus	PBCR	TMDL Completed	4a	40614

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620930000010_00	**Cimarron River**	**37.66 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
******Escherichia coli***	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
Selenium	WWAC	140	5a	
Enterococcus	PBCR	TMDL Completed	4a	40587

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK620930000100_00	**Crooked Creek**	**6.38 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	40588

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621000010010_30	**Arkansas River, Salt Fork**	**34.45 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	41080
Turbidity	WWAC	TMDL Completed	4a	41080
Lead	FC	49, 85, 140	5a	

*****Cause Name*** - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621000020040_00	**Wild Horse Creek**	**24.66 MILES**	**5c**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
***Escherichia coli**	PBCR	46, 92, 108, 111, 133, 136, 140	5a	
***Oxygen, Dissolved**	WWAC	46, 59, 87, 92, 108, 111, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621000020130_00	**Spring Creek**	**6.14 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	140	5a	
Escherichia coli	PBCR	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621000030010_00	**Bois d' Arc Creek**	**36.88 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	41129
***Oxygen, Dissolved**	WWAC	46, 59, 92, 97, 108, 111, 133, 136, 140	5a	
***Macroinvertebrate Bio**	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621000030050_00	**Cattle Creek, West**	**8.56 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621000030090_00*	**Spring Creek**	**3.40 MILES**	**5c**	**2025** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
***Macroinvertebrate Bio**	WWAC	46, 49, 59, 92, 97, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621000040010_00	**Deer Creek**	**40.81 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	41084

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621000050010_00	**Pond Creek**	**60.22 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	41115
Escherichia coli	PBCR	TMDL Completed	4a	41115

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621000060010_00	**Crooked Creek**	**32.88 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	41116

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621000060060_00	**Duel Creek**	**10.35 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621010010010_00	**Arkansas River, Salt Fork**	**17.34 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed	4a	41121

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621010010020_00	**Great Salt Plains Lake**	**8,690.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	140	5a	
Turbidity	WWAC	140	5a	

***Cause Name** - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK621010010130_00	**Clay Creek, West**		**22.92 MILES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 111, 133, 136, 140		5a	
Total Dissolved Solids	AG	49, 102, 140		5b	
Sulfates	AG	49, 102, 140		5b	
******Oxygen, Dissolved***	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140		5a	
Chloride	AG	49, 102, 140		5b	
OK621010010160_00	**Arkansas River, Salt Fork**		**14.96 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	41122
Escherichia coli	PBCR	TMDL Completed		4a	41122
Turbidity	WWAC	TMDL Completed		4a	41122
OK621010010230_00	**Turkey Creek**		**20.80 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	41098
Escherichia coli	PBCR	TMDL Completed		4a	41098
Sulfates	AG	49, 102, 140		5b	
Total Dissolved Solids	AG	49, 102, 140		5b	
OK621010010240_00	**Boggy Creek**		**16.43 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Sulfates	AG	140		5b	
OK621010010270_00	**Yellowstone Creek**		**21.82 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	41123
Total Dissolved Solids	AG	49, 97, 140		5b	
Sulfates	AG	49, 102, 140		5b	
OK621010020010_00	**Sandy Creek**		**17.81 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	41124
Escherichia coli	PBCR	TMDL Completed		4a	41124
OK621010030010_00	**Medicine Lodge River**		**13.47 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	41119
Escherichia coli	PBCR	TMDL Completed		4a	41119
OK621010030030_00	**Driftwood Creek**		**38.79 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	41117
Escherichia coli	PBCR	TMDL Completed		4a	41117
Turbidity	WWAC	TMDL Completed		4a	41117

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621010030080_00	**Capron Creek, North**	**8.09 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621100000010_00	**Chikaskia River**	**5.39 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	41088

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621100000010_10	**Chikaskia River**	**23.11 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Turbidity***	WWAC	TMDL Completed	4a	41128
Lead	FC	140	5a	
Enterococcus	PBCR	TMDL Completed	4a	41128

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621100000010_20	**Chikaskia River**	**12.81 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	46, 92, 108, 128, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621100000030_00	**Duck Creek**	**25.78 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	140	5a	
Escherichia coli	PBCR	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621100000040_00	**Peckham Creek**	**9.29 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621100000070_00	**Grainville Creek**	**6.32 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621100000100_00	**Bitter Creek**	**23.33 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	41086
****Oxygen, Dissolved***	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	
Chloride	AG	49, 102, 140	5b	
Sulfates	AG	49, 102, 140	5b	
Total Dissolved Solids	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621100000130_00	**Scatter Creek**	**7.58 MILES**	**5b**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	102	5b	
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200010020_00	**Keystone Lake**	**3,980.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200010050_00	**Keystone Lake, Arkansas River Arm**	**9,491.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200010200_00	**Arkansas River**	**37.49 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Enterococcus***	PBCR	TMDL Completed	4a	41096
Turbidity	WWAC	TMDL Completed	4a	41096

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200010270_00	**Cleveland Lake**	**159.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200010400_00	**Gray Horse Creek**	**15.94 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	37062
Escherichia coli	PBCR	TMDL Completed	4a	37062

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200020020_00	**Doga Creek**	**9.85 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	37063
****Oxygen, Dissolved***	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200020210_00	**Lake Ponca**	**402.50 ACRES**	**5a**	**2016**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorophyll-a	PPWS	140	5a	
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200030010_00	**Black Bear Creek**	**68.02 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed	4a	41131
Turbidity	WWAC	TMDL Completed	4a	39182
Enterococcus	PBCR	TMDL Completed	4a	41131
Lead	FC	49, 85, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200030060_00	**Lone Chimney Lake**	**550.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200030100_00	**Pawnee Lake**	**257.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chlorophyll-a	PPWS	140	5a	
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200030260_00*	**Black Bear Creek**	**17.16 MILES**	**5b**	**2022** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Total Dissolved Solids***	AG	49, 102, 140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200030260_10	**Black Bear Creek**	**11.65 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	

**Cause Name* - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200030270_00	**Cow Creek**	**12.97 MILES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	85, 140	5a	
Escherichia coli	PBCR	85, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200030350_00	**Perry Lake**	**614.00 ACRES**	**5a**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Turbidity	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200030396_00	**Lucien Creek**	**3.62 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200030420_00	**Garber Creek**	**5.62 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200030490_00	**Garber Field!**	**3.42 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200030500_00	**St. John!**	**2.58 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200030510_00	**Shale!**	**2.54 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	102	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200030560_00	**Lutheran!**	**2.76 MILES**	**5b**	**2022**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	140	5b	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200040010_00	**Salt Creek**	**17.29 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	37061

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200040010_10	**Salt Creek**	**43.97 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	37059
Escherichia coli	PBCR	TMDL Completed	4a	37059

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200040040_00*	**Fairfax Lake**	**111.00 ACRES**	**5a**	**2022** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Chlorophyll-a***	PPWS	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK621200050010_00	**Red Rock Creek**	**36.92 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	41108
Escherichia coli	PBCR	TMDL Completed	4a	41108
Turbidity	WWAC	TMDL Completed	4a	41108

****Cause Name*** - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK621200050010_10	**Red Rock Creek**		**46.89 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	TMDL Completed		4a	41113
Enterococcus	PBCR	TMDL Completed		4a	59184
Escherichia coli	PBCR	TMDL Completed		4a	41113
OK621200050160_00*	**Grassy Creek**		**11.30 MILES**	**5a**	**2025** NEW
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
****Oxygen, Dissolved***	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140		5a	
****Turbidity***	WWAC	46, 49, 87, 102, 108, 140		5a	
OK621200050170_00*	**Doe Creek**		**6.66 MILES**	**5c**	**2025** NEW
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
****Macroinvertebrate Bio***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140		5c	
OK621210000020_00	**Kaw Lake, Lower**		**7,208.00 ACRES**	**5a**	**2016**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	140		5a	
Mercury	FC	140		5c	
OK621210000030_10	**Arkansas River**		**14.44 MILES**	**5b**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	59185
Turbidity	WWAC	TMDL Completed		4a	59185
Sulfates	AG	49, 140		5b	
Total Dissolved Solids	AG	49, 140		5b	
OK621210000040_00	**Kaw Lake, Upper**		**9,009.00 ACRES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	140		5a	
Mercury	FC	140		5c	
OK621210000050_10	**Beaver Creek**		**21.58 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
****Oxygen, Dissolved***	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140		5a	
Escherichia coli	PBCR	TMDL Completed		4a	41090
Enterococcus	PBCR	TMDL Completed		4a	41090
OK621210000270_00	**Chilocco Creek**		**16.31 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed		4a	41089
Turbidity	WWAC	TMDL Completed		4a	41089
Enterococcus	PBCR	TMDL Completed		4a	41089
OK720500010010_00	**Canadian River, North**		**37.36 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	59186
****Sedimentation/Siltation***	WWAC	46, 87, 108, 140		5a	
****Fishes Bioassessments***	WWAC	140		5c	

****Cause Name*** - Indicates new cause listing for 2014

Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK720500010020_00	**Canton Lake**		**7,910.00 ACRES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Turbidity	WWAC	140		5a	
OK720500010070_00	**Bent Creek**		**18.13 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	59187
Escherichia coli	PBCR	TMDL Completed		4a	59187
Sulfates	AG	TMDL Completed		4a	60920
OK720500010140_10	**Beaver River (North Canadian)**		**11.50 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	59200
OK720500010150_00	**Persimmon Creek**		**13.45 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	59202
Escherichia coli	PBCR	TMDL Completed		4a	59202
OK720500010200_00	**Indian Creek**		**17.03 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed		4a	59203
Enterococcus	PBCR	TMDL Completed		4a	59203
OK720500020010_00	**Beaver River (North Canadian)**		**40.07 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	39225
Escherichia coli	PBCR	46, 59, 108, 128, 136, 140		5a	
Lead	FC	140		5a	
OK720500020030_00	**Wolf Creek**		**5.57 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	39240
Turbidity	WWAC	TMDL Completed		4a	39240
OK720500020050_00	**Otter Creek**		**13.55 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	39234
Escherichia coli	PBCR	TMDL Completed		4a	39234
OK720500020070_00	**Clear Creek**		**29.74 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	39227
OK720500020100_00	**Spring Creek**		**6.67 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	TMDL Completed		4a	39237
Fishes Bioassessments	WWAC	140		5c	
Enterococcus	PBCR	TMDL Completed		4a	39237

Cause Name** - Indicates new cause listing for 2014 **Waterbody ID & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK720500020130_00	**Kiowa Creek**	**34.54 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	39233
Escherichia coli	PBCR	TMDL Completed	4a	39233
****Fishes Bioassessments***	WWAC	46, 49, 59, 87, 92, 102, 108, 111, 136, 140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK720500020140_00	**Beaver River (North Canadian)**	**38.96 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Chloride	AG	TMDL Completed	4a	60940
Enterococcus	PBCR	TMDL Completed	4a	39224
Lead	FC	49, 140	5a	
Sedimentation/Siltation	WWAC	140	5a	
Macroinvertebrate Bio	WWAC	140	5c	
Fishes Bioassessments	WWAC	140	5c	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK720500020250_00	**Duck Pond Creek**	**40.62 MILES**	**4a**	**N/A**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed	4a	39229

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK720500020290_00	**Beaver River (North Canadian)**	**31.37 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Macroinvertebrate Bio	WWAC	140	5c	
****Selenium***	WWAC	49, 140	5a	
Sedimentation/Siltation	WWAC	140	5a	
Total Dissolved Solids	AG	TMDL Completed	4a	60941
Sulfates	AG	TMDL Completed	4a	60941
Escherichia coli	PBCR	TMDL Completed	4a	39223
Chloride	AG	TMDL Completed	4a	60941
Enterococcus	PBCR	TMDL Completed	4a	39223

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK720500020300_00*	**Clear Creek**	**23.48 MILES**	**5c**	**2025** NEW

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
****Oxygen, Dissolved***	WWAC	46, 59, 87, 92, 108, 111, 133, 136, 140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK720500020450_00	**Beaver River (North Canadian)**	**28.20 MILES**	**5a**	**2025**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Total Dissolved Solids	AG	TMDL Completed	4a	60960
Fishes Bioassessments	WWAC	140	5c	
Sedimentation/Siltation	WWAC	140	5a	
Escherichia coli	PBCR	TMDL Completed	4a	39222
Enterococcus	PBCR	TMDL Completed	4a	39222
Chloride	AG	TMDL Completed	4a	60960
Sulfates	AG	TMDL Completed	4a	60960

Cause Name* - Indicates new cause listing for 2014 **Waterbody ID* & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name		Waterbody Size	WB Category	TMDL Priority
OK720500020500_00	**Palo Duro Creek**		**15.84 MILES**	**5a**	**2025**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Sulfates	AG	TMDL Completed		4a	60980
Total Dissolved Solids	AG	TMDL Completed		4a	60980
Turbidity	WWAC	TMDL Completed		4a	39236
Enterococcus	PBCR	140		5a	
Escherichia coli	PBCR	140		5a	
Oxygen, Dissolved	WWAC	92, 100, 156, 140		5a	
Selenium	WWAC	140		5a	
OK720500020500_10	**Palo Duro Creek**		**4.40 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	39235
Escherichia coli	PBCR	TMDL Completed		4a	39235
OK720500030010_00*	**Wolf Creek**		**43.05 MILES**	**4a**	NEW
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
****Enterococcus***	PBCR	TMDL Completed		4a	39238
OK720500030020_00	**Fort Supply Lake**		**1,880.00 ACRES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Chlorophyll-a	PPWS	140		5a	
Turbidity	WWAC	140		5a	
OK720510000190_00	**Beaver River (North Canadian)**		**42.54 MILES**	**4a**	**N/A**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	39221
Escherichia coli	PBCR	TMDL Completed		4a	39221
OK720510000275_00	**Corrumpa Creek**		**12.94 MILES**	**5a**	**2022**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Ammonia (Un-ionized)	WWAC	156, 140		5a	
Oxygen, Dissolved	WWAC	156, 140		5a	
OK720900000010_00	**Cimarron River**		**46.82 MILES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Escherichia coli	PBCR	156, 140		5a	
OK720900000100_00	**Cold Springs Creek**		**29.19 MILES**	**5a**	**2020**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 136, 140		5a	
OK720900000180_00	**Cimarron River**		**19.24 MILES**	**5a**	**2019**
Cause of Impairment	Impaired Use	Unconfirmed Potential Sources		Cause Category	TMDL ID
Enterococcus	PBCR	TMDL Completed		4a	40586
Oxygen, Dissolved	WWAC	46, 87, 92, 108, 136, 140		5a	
Sulfates	AG	49, 102, 140		5b	

****Cause Name*** - Indicates new cause listing for 2014 **Waterbody ID*** & NEW - Indicate new waterbody listing for 2014

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK720900000200_00	**Carrizo Creek, South**	**19.55 MILES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Oxygen, Dissolved	WWAC	140	5a	

Waterbody ID	Waterbody Name	Waterbody Size	WB Category	TMDL Priority
OK720900000240_00	**Carl Etling Lake**	**159.00 ACRES**	**5a**	**2019**

Cause of Impairment	Impaired Use	Unconfirmed Potential Sources	Cause Category	TMDL ID
Sulfates	AG	140	5b	
pH	WWAC	140	5a	
Turbidity	WWAC	140	5a	

Legend of Potential Sources

Source ID	Source Description
2	Acid Mine Drainage
4	Animal Feeding Operations (NPS)
8	Atmospheric Depositon - Acidity
10	Atmospheric Deposition - Toxics
16	Cercla NPL (Superfund) Sites
21	Clean Sediments
33	Discharges from Biosolids (SLUDGE) Storage, Application or Disposal
34	Discharges from Municipal Separate Storm Sewer Systems (MS4)
38	Dredging (E.g., for Navigation Channels)
42	Flow Alterations from Water Diversions
46	Grazing in Riparian or Shoreline Zones
49	Highway/Road/Bridge Runoff (Non-construction Related)
56	Impacts from Abandoned Mine Lands (Inactive)
58	Impacts from Hydrostructure Flow Regulation/Modification
59	Impacts from Land Application of Wastes
62	Industrial Point Source Discharge
66	Irrigated Crop Production
68	Land Application of Wastewater Biosolids (Non-agricultural)
69	Landfills
70	Leaking Underground Storage Tanks
82	Mine Tailings
84	Municipal (Urbanized High Density Area)
85	Municipal Point Source Discharges
87	Non-irrigated Crop Production
92	On-site Treatment Systems (Septic Systems and Similar Decencentralized Systems)
97	Other Spill Related Impacts
100	Permitted Runoff from Confined Animal Feeding Operations (CAFOs)
102	Petroleum/natural Gas Activities (Legacy)
108	Rangeland Grazing
110	Releases from Waste Sites or Dumps
111	Residential Districts
119	Silviculture Harvesting
124	Spills from Trucks or Trains
127	Surface Mining
128	Total Retention Domestic Sewage Lagoons
133	Wastes from Pets
136	Wildlife Other than Waterfowl
140	Source Unknown
146	Sources Outside State Juristiction or Borders
155	Natural Sources
156	Agriculture

Prioritization of TMDL Development

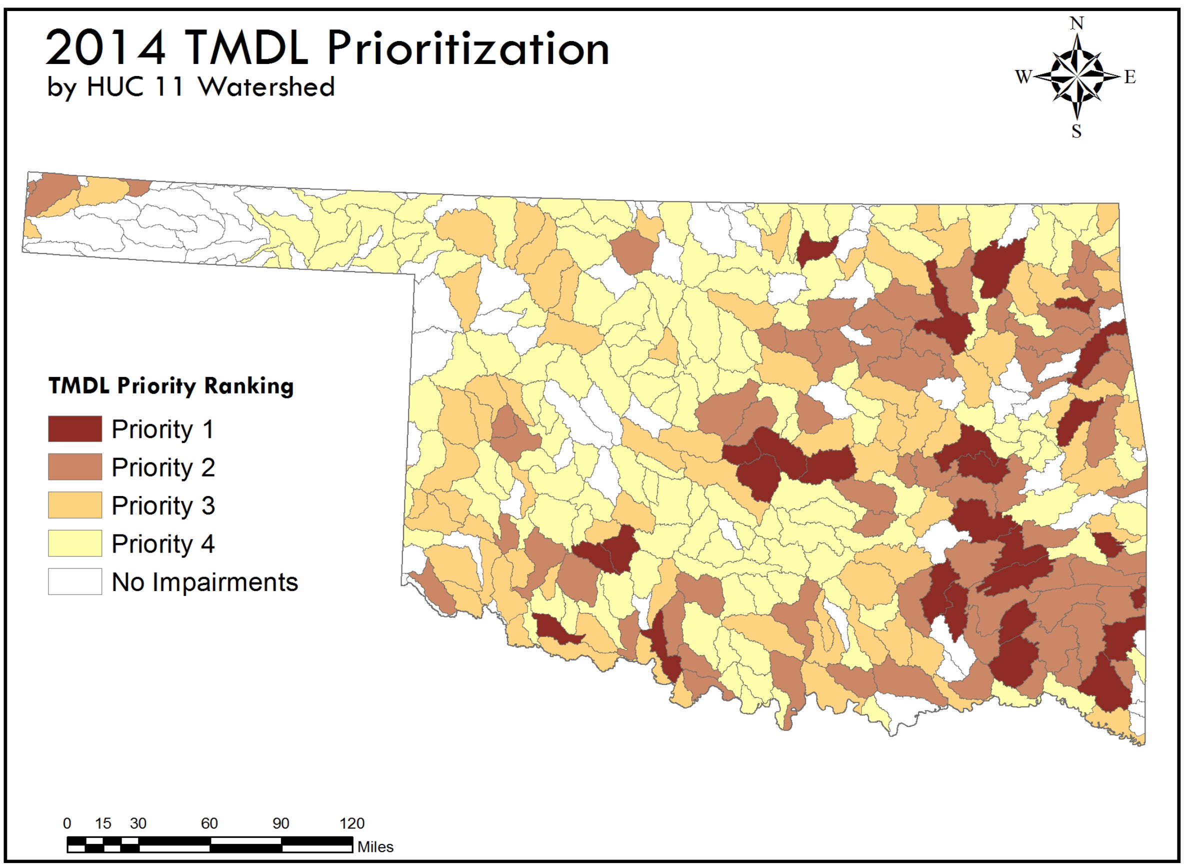
A priority ranking for TMDL development has been established for each impaired HUC 11 watershed in the state using the procedure outlined in the 2012 Continuing Planning Process (pp. 139-140). The TMDL prioritization point totals calculated for each watershed were broken down into the following four priority levels:

Priority 1 watersheds - above the 90th percentile (27 watersheds)
Priority 2 watersheds - 70th to 90th percentile (66 watersheds)
Priority 3 watersheds - 40th to 70th percentile (78 watersheds)
Priority 4 watersheds - below the 40th percentile (141 watersheds)

Each waterbody on the 2014 303(d) list has been assigned a potential date of TMDL development based on the priority level for the corresponding HUC 11 watershed.

Priority 1 watersheds are targeted for TMDL development within the next two years.

91 HUC11 watersheds contained no impaired waterbodies and were not included in the prioritization process.



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Appendix D - 2014 Oklahoma 303(d) Delisting Justifications

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK120400010260_00	Arkansas River	Total Dissolved Solids	WQS attained; mean of samples is below YMS, only 1 of 18 samples exceed SS	
OK120400010400_00	Coody Creek	Oxygen, Dissolved	DO assessment is undetermined; 7 of 21 (33%) below support criterion and 1 of 21 (5%) below non-support criterion	
OK120400020030_00	Dirty Creek, South Fork	Benthic-Macroinvertebrate	Error in original listing; not enough information to make a macroinvertebrate bioassessment	
OK120410010190_00	Bixhoma Lake	pH	WQS attained; only 5% of samples fall outside specified pH range	
OK120420010010_00	Arkansas River	Oil and Grease	WQS attained; only 1 of 27 observations indicated presence of oil and grease	
OK120420010130_00	Arkansas River	Oil and Grease	WQS attained; no observations of oil & grease during assessment period	
OK120420010250_00	Shell Lake	Oxygen, Dissolved	Not impaired for DO; no instances of greater than 70% of water column below 2 mg/L	
OK120420020010_00	Polecat Creek	Oil and Grease	WQS attained; no observations of oil and grease during the five year reporting period (11 monitoring events)	
OK120420020130_00	Sahoma Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK120420020300_00	Heyburn Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK121300010010_00	Bird Creek	Turbidity	WQS attained; only 2 of 20 samples exceed criterion	
OK121300010010_00	Bird Creek	Oil and Grease	WQS attained; only 1 of 34 monitoring events indicated presence of oil and grease	
OK121300010120_00	Flat Rock Creek	Benthic-Macroinvertebrate	Not impaired; recent macroinvertebrate assessments do not indicate impairment	
OK121300010150_00	Delaware Creek	Chloride	WQS attained; mean of 67 mg/L, and 0 of 21 chloride samples exceeded 250 mg/L	
OK121300010150_00	Delaware Creek	Oxygen, Dissolved	DO assessment is undetermined; 6 of 21 (29%) below support criterion and 2 of 21 (9.5%) below non-support criterion	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK121300020010_00	Bird Creek	Enterococcus	Error in original listing; no bacteria samples were collected in this segment (see 2010 Bird Creek TMDL)	
OK121300020010_00	Bird Creek	Escherichia coli	Error in original listing; no bacteria samples were collected in this segment (see 2010 Bird Creek TMDL)	
OK121300020190_00	Waxhoma Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK121300030040_00	Birch Lake	Color	WQS attained; color removed from Oklahoma's Water Quality Standards	
OK121300030300_00	Bluestem Lake	Color	Change in WQS; Color is no longer assessed	
OK121300040280_00	Hominy Creek	Escherichia coli	WQS attained; E. coli geometric mean is 30	
OK121400010270_00	Curl Creek	Turbidity	WQS attained; only 1 of 18 samples exceeded turbidity criterion	
OK121400010300_00	Hogshooter Creek	Fishes Bioassessments	WQS attained; Fish bioassessment is now supporting	
OK121400020140_00	Little Caney River (Caney Creek)	Enterococcus	TMDL completed; EPA TMDL ID# 39218	39218
OK121400020190_00	Mission Creek	Oxygen, Dissolved	WQS attained; only 1 of 12 samples violated DO criteria	
OK121400020190_00	Mission Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 39220	39220
OK121400030020_00	Hulah Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK121400030170_00	Buck Creek	Escherichia coli	WQS attained; geometric mean of 8 is below criterion for E. coli	
OK121400040010_00	Sand Creek	Escherichia coli	WQS attained; geometric mean of 70 is below the E. coli criterion	
OK121400050020_00	Copan Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK121400050020_00	Copan Lake	Chlorophyll-a	TMDL completed; EPA TMDL ID# 60880	60880

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK121500010200_00	Verdigris River	Turbidity	TMDL completed; EPA TMDL ID# 42569	42569
OK121500040020_00	Claremore Lake	Chlorophyll-a	TMDL completed; EPA TMDL ID# 60900	60900
OK121510010130_00	Lightning Creek	Escherichia coli	WQS attained; geometric mean of 12 is below the E. coli criterion	
OK121510020050_00	California Creek	Enterococcus	TMDL completed; EPA TMDL ID# 50980	50980
OK121510030010_00	Big Creek	Oxygen, Dissolved	WQS attained; only 2 of 21 samples exceeded criterion	
OK121600010060_00	Ranger Creek	Escherichia coli	WQS attained; geometric mean of 30 is below the E. coli criterion	
OK121600010060_00	Ranger Creek	Oxygen, Dissolved	DO assessment is undetermined; 3 of 22 (14%) below support criterion and 1 of 22 (5%) below non-support criterion	
OK121600010200_00	Fort Gibson Lake, Upper	Turbidity	WQS attained; only 5% of values exceed 25 NTU criterion	
OK121600010430_00	Chouteau Creek	Escherichia coli	WQS attained; geometric mean of 39 is below E. coli criterion	
OK121600020030_10	Saline Creek	Benthic-Macroinvertebrate	WQS attained; all 8 macroinvertebrate collection in assessment period are supporting	
OK121600020030_10	Saline Creek	Enterococcus	TMDL completed; EPA TMDL ID# 58701	58701
OK121600020070_00	Little Saline Creek	Enterococcus	TMDL completed; EPA TMDL ID# 58702	58702
OK121600030030_00	Grand Lake O' the Cherokees, Middle	Turbidity	WQS attained; only 6% of measurements exceed 25 NTU	
OK121600030445_10	Honey Creek	Enterococcus	TMDL completed; EPA TMDL ID# 58704	58704
OK121600030560_00	Lost Creek	Escherichia coli	Error in original listing; not enough samples (2) to make an assessment determination	
OK121600040040_00	Hudson Creek	Turbidity	TMDL completed; EPA TMDL ID# 50814	50814

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK121600040060_00	Tar Creek	Benthic-Macroinvertebrate	WQS attained; Macroinvertebrate bioassessment no longer indicates impairment	
OK121600040060_00	Tar Creek	Enterococcus	WQS attained; enterococcus geometric mean for 11 samples is 112.6 cfu/mL does not exceed the SBCR criteria of 165 cfu/mL	
OK121600040130_00	Cow Creek	Turbidity	TMDL completed; EPA TMDL ID# 50814	50814
OK121600040220_00	Neosho River	Turbidity	TMDL completed; EPA TMDL ID# 50814	50814
OK121600040220_00	Neosho River	Fishes Bioassessments	WQS attained for Fish Bioassessment; latest fish bioassessment does not indicate impairment	
OK121600050150_00	Spavinaw Creek	Enterococcus	WQS attained; E. coli geometric mean of 31 is below criterion	
OK121600050160_00	Beaty Creek	Enterococcus	TMDL completed; EPA TMDL ID# 58707	58707
OK121600050180_00	Cloud Creek	Enterococcus	TMDL completed; EPA TMDL ID# 58708	58708
OK121600060060_10	Big Cabin Creek	Oil and Grease	WQS attained; no observations of oil and grease during reporting period	
OK121600060080_00	Little Cabin Creek	Enterococcus	TMDL completed; EPA TMDL ID# 50980	50980
OK121600060080_00	Little Cabin Creek	Total Dissolved Solids	WQS attained; mean of 241 mg/L, and 0 of 21 TDS samples exceeded 700 mg/L	
OK121600060080_00	Little Cabin Creek	Escherichia coli	WQS attained; geometric mean of 101 is below E. coli criterion	
OK121600060200_00	Bull Creek	Escherichia coli	Error in original listing; not enough samples (3) to make an assessment determination	
OK121600060220_00	Big Cabin Creek	Total Dissolved Solids	WQS attained; only 1 of 12 samples exceeded SS, mean of 492 does not exceed standards	
OK121600060240_00	Pawpaw Creek	Escherichia coli	Error in original listing; not enough samples (2) to make an assessment determination	
OK121600070110_00	Fivemile Creek	Benthic-Macroinvertebrate	WQS attained; Macroinvertebrate assessment no longer indicates impairment	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK121610000050_10	Pryor Creek	Escherichia coli	WQS attained; geometric mean of 25 is below criterion	
OK121610000050_10	Pryor Creek	Enterococcus	TMDL completed; EPA TMDL ID# 58709	58709
OK121610000090_00	Pryor Creek	Turbidity	TMDL completed; EPA TMDL ID# 58709	58709
OK121700030350_00	Illinois River	Turbidity	WQS attained; no samples collected during reporting period exceeded criterion	
OK220100010010_00	Poteau River	Turbidity	TMDL completed; EPA TMDL ID# 58800	58800
OK220100010010_40	Poteau River	Turbidity	TMDL completed; EPA TMDL ID# 58820	58820
OK220100010050_00	New Spiro Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK220100020010_10	Poteau River	Lead	WQS attained; mean of lead samples is 1.32	
OK220100020020_00	Wister Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK220100030010_00	Brazil Creek	Enterococcus	TMDL completed; EPA TMDL ID# 58760	58760
OK220100040080_00	Bandy Creek	Benthic-Macroinvertebrate	WQS attained; benthic macroinvertebrat bioassessment does not indicate impairment	
OK220100040080_00	Bandy Creek	Turbidity	Error in original listing; only 3 turbidity samples on record, not enough information to make an assessment determination	
OK220100040150_00	Wayne Wallace Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK220200010060_00	Cache Creek	Benthic-Macroinvertebrate	WQS atttained; benthic macroinvertebrate bioassessment indicates attainment	
OK220200020020_00	Robert S. Kerr Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK220200030010_20	Sallisaw Creek	Enterococcus	TMDL completed; EPA TMDL ID# 58780	58780

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK220200040010_10	Sans Bois Creek	Enterococcus	TMDL completed; EPA TMDL ID# 58782	58782
OK220200040010_40	Sans Bois Creek	Turbidity	WQS attained; only 1 of 14 samples (7%) exceeded turbidity criterion	
OK220200040030_00	John Wells Lake (Stigler)	Oxygen, Dissolved	WQS attained; no instances of greater than 50% of the water column below 2 mg/L during the 10 year reporting period	
OK220200040050_00	Sans Bois Creek, Mountain Fork	pH	WQS attained; only one of 12 samples fell outside acceptable pH range	
OK220200050010_10	Lee Creek	Copper	WQS attained; only 2 of 28 samples exceed the criterion of 6.641 ug/L	
OK220200050040_00	Little Lee Creek	Enterococcus	Error in original listing; not enough samples to make assessment determination, only 5 samples available	
OK220600010050_00	Eufaula Lake, Canadian River Arm	Color	Change in WQS; color criteria removed from Chapter 45	
OK220600010100_20	Mill Creek	Benthic-Macroinvertebrate	WQS attained; Benthic macroinvertebrate assessment indicates attainment	
OK220600010119_10	Canadian River	Sulfates	WQS attained; only 1 of 31 samples exceeded sulfate SS and mean of 129 mg/L does not exceed YMS for this segment	
OK220600010119_10	Canadian River	Enterococcus	TMDL completed; EPA TMDL ID# 58783	58783
OK220600010119_10	Canadian River	Turbidity	TMDL completed; EPA TMDL ID# 58783	58783
OK220600020030_00	McAlester Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK220600030010_00	Brushy Creek	Oxygen, Dissolved	WQS undetermined; no samples below non-support criterion	
OK220600050010_00	Eufaula Lake, Gaines Creek Arm	Color	Change in WQS; color criteria removed from Chapter 45	
OK310800010090_00	Big Sandy Creek	Oxygen, Dissolved	DO assessment is undetermined; 5of 21 (24%) below support criterion and 2 of 21 (9.5%) below non-support criterion	
OK310800020122_00	Rock Creek	Benthic-Macroinvertebrate	WQS attained; Benthic macroinvertebrate bioassessment is fully supporting	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK310810010010_10	Washita River	Lead	WQS attained; lead mean of 3.6 is below criterion	
OK310810010180_00	Pauls Valley Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK310810010220_00	Maysville Lake (Wiley Post)	Color	Change in WQS; color criteria removed from Chapter 45	
OK310810010270_00	Rush Creek, Trib G!	Chloride	TMDL completed; EPA TMDL ID# 53310	53310
OK310810020010_00	Washita River	Sulfates	WQS attained; only 1 of 13 samples exceeded SS and mean of 589 mg/L does not exceed YMS of 755 mg/L	
OK310810020020_00	Finn Creek	Oxygen, Dissolved	DO assessment is undetermined; 3 of 22 (14%) below support criterion and 1 of 22 (5%) below non-support criterion	
OK310810050120_00	Rush Creek, Trib E!	Chloride	TMDL completed; EPA TMDL ID# 53309	53309
OK310810050130_00	Cox City!	Chloride	TMDL completed; EPA TMDL ID# 53307	53307
OK310810050140_00	West Cox City!	Chloride	TMDL completed; EPA TMDL ID# 53308	53308
OK310820010160_00	Ionine Creek	Sulfates	Attainment status cannot be determined; no criteria in Appendix F for this segment	
OK310820010160_00	Ionine Creek	Total Dissolved Solids	Attainment status cannot be determined; no criteria in Appendix F for this segment	
OK310830020060_10	Rainy Mountain Creek	Turbidity	WQS attained; only 1 of 12 samples exceeded criterion	
OK310830030010_00	Washita River	Fishes Bioassessments	WQS attained; Fish Bioassessments no longer indicate impairment	
OK310830030010_00	Washita River	Sedimentation/Siltation	WQS not impaired; Sedimentation/siltation cannot be listed as a cause of impairment unless bioassessments indicate impairment	
OK310830030280_00	Clinton Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK310830040010_00	Spring Creek	Total Dissolved Solids	WQS attained; TDS mean of 1911 mg/L is below the 2235 mg/L segment average YMS, and 0 of 17 samples exceeded the SS segment average of 2762, mg/L	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK311100010020_00	Texoma Lake	Oxygen, Dissolved	WQS not impaired; DO measurements indicate 60-63% of water column below 2 mg/L (50-70% is undetermined)	
OK311100010190_00	Red River	Turbidity	TMDL completed; EPA TMDL ID# 42452	42452
OK311100010190_20	Red River	Sulfates	WQS attained; only 3 of 31 samples exceed the SS, and the mean of 702 mg/L does not exceed the YMS of 866 mg/L	
OK311100010300_00	Fleetwood Creek	Turbidity	WQS attained; only 1 of 16 samples exceeded criterion	
OK311100030130_00	Healdton Municipal Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK311100040010_00	Mud Creek	Lead	WQS attained; mean of 4.95 ug/L is below the Lead criterion of 5.0 ug/L	
OK311100040010_00	Mud Creek	Fishes Bioassessments	WQS attained; fish bioassessment indicates attainment	
OK311100040010_00	Mud Creek	Sedimentation/Siltation	WQS not impaired for sedimentation; fish bioassessment is attaining, therefore sedimentation/siltation cannot be a cause of non-attainment (per WQS)	
OK311200000080_00	Dry Creek	Chloride	Error in original listing; chloride mean of 394 mg/L is below the segment YMS of 833 mg/L, and no samples exceed the SS of 2762 mg/L	
OK311200000080_00	Dry Creek	Ammonia (Un-ionized)	Error in original listing; 0 of 7 samples exceeded pH dependent screening values	
OK311210000020_00	Waurika Lake	Chlorophyll-a	TMDL completed; EPA TMDL ID# 53302	53302
OK311300010020_00	Cache Creek, East	Fishes Bioassessments	WQS attained; Fish bioassessments indicate use support	
OK311300010080_00	Walters Lake (Boyer)	Color	Change in WQS; color criteria removed from Chapter 45	
OK311300030020_00	Ellsworth Lake	Chlorophyll-a	TMDL completed; EPA TMDL ID# 53306	53306
OK311300040070_00	Lawtonka Lake	Chlorophyll-a	TMDL completed; EPA TMDL ID# 53301	53301
OK311310010010_00	Red River	Lead	Error in original listing; originally listed using PPWS criterion, proper application of EWS criterion (25.0) indicates attainment (lead mean was 7.52)	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK311310020010_10	Cache Creek, West	Turbidity	WQS attained; only 1 of 16 turbidity samples exceeded criterion	
OK311310020010_10	Cache Creek, West	pH	WQS attained; 0 of 21 samples were outside of the specified pH range	
OK311310020070_00	Post Oak Creek	Fishes Bioassessments	WQS attained; latest fish bioassessment does not indicate impairment	
OK311310030010_00	Deep Red Creek	Oxygen, Dissolved	DO assessment is undetermined; 5 of 21 (24%) below support criterion and 2 of 21 (9.5%) below non-support criterion	
OK311310030040_00	Little Deep Red Creek	Turbidity	WQS attained; only 1 of 11 samples exceeded criterion	
OK311310030120_00	Frederick Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK311500010080_00	Otter Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 39201	39201
OK311500010080_00	Otter Creek	Oxygen, Dissolved	DO assessment is undetermined; 6 of 21 (29%) below support criterion and 2 of 21 (9.5%) below non-support criterion	
OK311500020040_00	Otter Creek, West	Oxygen, Dissolved	WQS attained; 0 of 11 samples violate support criteria	
OK311500030010_00	Elk Creek	Fishes Bioassessments	WQS attained; recent bioassessments are supporting	
OK311500030010_00	Elk Creek	Lead	WQS attained; mean of 4.37 is supporting for lead	
OK311500030060_00	Rocky (Hobart) Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK311510010010_10	Red River, North Fork	Turbidity	WQS attained; no samples in reporting period exceeded criterion	
OK311510010090_00	Timber Creek	Oxygen, Dissolved	DO assessment is undetermined; 3 of 20 (15%) below support criterion and 2 of 20 (10%) below non-support criterion	
OK311510020090_00	Buffalo Creek	Total Dissolved Solids	WQS attained; Only 2 of 20 samples exceed SS, mean of 915 is below YMS	
OK311510020120_00	Sweetwater Creek	Total Dissolved Solids	WQS attained; TDS mean of 422 is below the segment YMS of 883 mg/L, and 0 of 20 samples exceeded SS of 2815 mg/L	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK311600020010_10	Red River, Salt Fork	Thallium	WQS attained; this segment was delisted based on monitoring in the segment immediately downstream, all data were less than the 1 ppb reporting limit	
OK311800000130_00	Fish Creek	Chloride	WQS attained; chloride mean of 4244 mg/L is below YMS of 9875 mg/L, and 0 of 20 samples exceeded SS of 2815 mg/L	
OK311800000130_00	Fish Creek	Total Dissolved Solids	WQS attained; TDS mean of 9497 mg/L is below YMS of 37568 mg/L, and 0 of 20 samples exceeded SS of 58087 mg/L	
OK410100010010_10	Red River	Turbidity	TMDL completed; EPA TMDL ID# 59164	59164
OK410100010050_00	Norwood Creek	pH	WQS attained; only 1 of 21 samples was out of the specified range	
OK410200010200_00	Little River	Turbidity	Originally listed in error; all turbidity samples were collected in a mixing zone. These samples are not valid for assessment.	
OK410200010200_10	Little River	Oxygen, Dissolved	WQS not impaired for dissolved oxygen; recent data result in undetermined assessment	
OK410200010200_10	Little River	Turbidity	TMDL completed; EPA TMDL ID# 59165	59165
OK410210020140_00	Little River	Turbidity	TMDL completed; EPA TMDL ID# 59168	59168
OK410210020150_00	Terrapin Creek	pH	WQS attained; only 2 of 21 samples fell outside the acceptable pH range	
OK410210020300_00	Cloudy Creek	Turbidity	TMDL completed; EPA TMDL ID# 59169	59169
OK410210060020_00	Buffalo Creek	Turbidity	TMDL completed; EPA TMDL ID# 59170	59170
OK410210060320_00	Beech Creek	Turbidity	TMDL completed; EPA TMDL ID# 59171	59171
OK410210060350_00	Cow Creek	Turbidity	TMDL completed; EPA TMDL ID# 59172	59172
OK410210080010_00	Glover River	Turbidity	WQS attained; only 2 of 22 samples (9%) exceed turbidity criterion	
OK410210080010_00	Glover River	Enterococcus	TMDL completed; EPA TMDL ID# 33306	33306

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK410210090160_00	Bluff Creek	Fishes Bioassessments	WQS attained; recent fish bioassessments indicate attainment	
OK410300010020_00	Gates Creek	Turbidity	TMDL completed; EPA TMDL ID# 59174	59174
OK410300010020_00	Gates Creek	Oxygen, Dissolved	DO assessment is undetermined; 2 of 11 (18%) below support criterion and 1 of 11 (9%) below non-support criterion	
OK410300020020_00	Hugo Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK410300020220_00	Ozzie Cobb Lake	Turbidity	WQS attained; only 7 % of values during reporting period exceed 25 NTU	
OK410300020220_00	Ozzie Cobb Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK410300030010_10	Kiamichi River	Copper	WQS attained; 0 of 28 copper samples exceed the criterion of 3.682 ug/L	
OK410300030270_00	Tenmile Creek	Enterococcus	WQS attained; Enterococcus geometric mean of 30 cfu/mL is below criterion	
OK410300030420_00	Buck Creek	Oxygen, Dissolved	DO assessment is undetermined; 4 of 19 (21%) below support criterion and 1 of 19 (5%) below non-support criterion	
OK410300030420_00	Buck Creek	pH	WQS attained; only 2 of 21 samples are outside the acceptable pH range	
OK410310010010_00	Kiamichi River	Copper	WQS attained; 0 of 24 copper samples exceed the criterion of 2.875 ug/L	
OK410400010010_20	Red River	Oil and Grease	WQS attained; no observances of oil and grease during reporting period	
OK410400010010_20	Red River	Turbidity	WQS attained; only 1 of 19 samples exceeded turbidity criterion	
OK410400010040_00	Horse Creek	Oxygen, Dissolved	DO assessment is undetermined; 3 of 20 (15%) below support criterion and 2 of 20 (10%) below non-support criterion	
OK410400030010_00	Clear Boggy Creek	Fishes Bioassessments	WQS attained; Fishes bioassessments are supporting	
OK410400060040_00	Coalgate Municipal Lake	Color	Change in WQS; no color criteria in Chapter 45	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK410400070010_00	McGee Creek	pH	WQS attained; only 1 of 20 samples outside specified range	
OK410400080020_00	Atoka Lake	Color	Standards change; Color removed from WQS	
OK410600010300_00	Mineral Bayou	Turbidity	WQS attained; only 1 of 16 samples exceed criterion	
OK410700000040_00	Island Bayou	Total Dissolved Solids	WQS attained; TDS mean of 476 mg/L is supporting	
OK520500010170_00	Bad Creek	Escherichia coli	WQS attained; geometric mean of 102 is supporting for E. coli	
OK520500010200_00	Alabama Creek	Escherichia coli	WQS attained; geometric mean of 86 is supporting for E. coli	
OK520500010200_00	Alabama Creek	Enterococcus	TMDL completed; EPA TMDL ID# 60840	60840
OK520500020010_00	Wewoka Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 60860	60860
OK520500020020_00	Greasy Creek	Turbidity	WQS attained; 12 samples collected with no samples exceeding the turbidity criterion	
OK520500020090_00	Little Wewoka Creek	Enterococcus	TMDL completed; EPA TMDL ID# 60861	60861
OK520500020090_00	Little Wewoka Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 60861	60861
OK520500020190_00	Wewoka Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK520500020220_00	Sportsman Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK520500020240_10	Wewoka Creek	Sulfates	Originally listed in error; 8 samples were collected in 1999-2000 and all samples were below 250 mg/L	
OK520510000100_00	Turkey Creek	Total Dissolved Solids	Error in original listing; cannot be impaired, there is no TDS criteria for this segment in Appendix F	
OK520510000110_10	Canadian River, North	Lead	WQS attained; mean of 3.5 is supporting for lead	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK520510000220_00	Tecumseh Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK520520000010_00	Canadian River, North	Dieldrin	WQS attained; all data collected in 2011 and 2012 below detection limit for dieldrin, including fish tissue samples	
OK520520000150_00	Crooked Oak Creek	Total Dissolved Solids	TDS not impaired; no TDS values available for this segment	
OK520520000250_00	Canadian River, North	Dieldrin	WQS attained; all samples below detection limit for dieldrin, including fish tissue samples	
OK520520000260_00	Overholser Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK520600010010_00	Canadian River	Lead	WQS attained; mean of 1.9 is supporting for lead	
OK520600010010_00	Canadian River	Turbidity	WQS attained; only 2 of 21 turbidity samples exceeded criterion	
OK520610010010_05	Canadian River	Turbidity	WQS attained; only 1 of 17 samples exceed criterion for turbidity	
OK520610010010_05	Canadian River	Lead	WQS attained; mean of 3.4 is supporting for lead	
OK520610010080_00	Willow Creek	Escherichia coli	WQS attained; E. coli geometric mean of 67 cfu/mL is supporting the PBCR use	
OK520610010080_00	Willow Creek	Turbidity	WQS attained; 0 of 19 turbidity samples exceeded criterion	
OK520610030010_00	Walnut Creek	Escherichia coli	WQS attained; E. coli geometric mean of 74 cfu/mL is supporting the PBCR use	
OK520620010060_00	Lariat Creek	Fishes Bioassessments	WQS not impaired; new fish bioassessments do not indicate impairment	
OK520620020090_00	Trail Creek	Escherichia coli	WQS attained; E. coli geometric mean of 53 cfu/mL is supporting the PBCR use	
OK520700010140_00	Coal Creek	Turbidity	WQS attained; 12 samples collected with no samples exceeding the turbidity criterion	
OK520700010180_00	Henryetta Lake	Color	Change in WQS; color criteria removed from Chapter 45	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK520700020040_00	Okmulgee Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK520700020060_00	Dripping Springs Lake (Salt Creek Structure	Color	Change in WQS; color criteria removed from Chapter 45	
OK520700020060_00	Dripping Springs Lake (Salt Creek Structure	Oxygen, Dissolved	DO is undetermined; monitoring station values range from 57 - 70% of water column below 2 mg/L	
OK520700020290_00	Okemah Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK520700030240_00	Stroud Lake	Oxygen, Dissolved	WQS attained; no instances of more than 50% of water column below 2 mg/L DO during reporting period	
OK520700040010_00	Canadian River, Deep Fork	Lead	WQS attained; mean of 3.6 is supporting for lead	
OK520700040010_00	Canadian River, Deep Fork	Turbidity	WQSattained; only 2 of 21 samples exceed criterion for turbidity	
OK520700040370_00	Meeker Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK520800010130_00	Little River	Fishes Bioassessments	WQS attained; new fish bioassessments are supporting	
OK520810000020_00	Thunderbird Lake	Turbidity	WQS attained; only 7% of values during 10 year period exceed 25 NTU	
OK520810000020_00	Thunderbird Lake	Oxygen, Dissolved	TMDL Completed; EPA TMDL ID# 55040	55040
OK520810000020_00	Thunderbird Lake	Chlorophyll-a	TMDL Completed; EPA TMDL ID# 55040	55040
OK620900010290_00	Euchee Creek	Escherichia coli	WQS attained; geometric mean of 63 is below criterion	
OK620900020050_00	Council Creek	Turbidity	TMDL completed; EPA TMDL ID# 42511	42511
OK620900020120_00	Cushing Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK620900040040_00	Stillwater Creek	Oxygen, Dissolved	WQS attained; 0 of 16 samples below criterion	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK620900040190_00	Boomer Lake	Color	Change in WQS; color is no longer assessed	
OK620900040280_00	Carl Blackwell Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK620910040100_00	Chisholm Creek	Enterococcus	Insufficient information to determine impairment; only 7 samples collected during recreation period	
OK620910040200_00	Hefner Lake	Oxygen, Dissolved	WQS attained; no instance of more than 50% of water column below 2 mg/L DO during the 10 year assessment period	
OK620920010080_00	Cottonwood Creek	pH	WQS attained; 0 of 13 pH samples out of specified range	
OK620920010080_00	Cottonwood Creek	Enterococcus	Error in original listing; not enough samples (5) to make an assessment determination	
OK620920010080_00	Cottonwood Creek	Escherichia coli	Error in original listing; not enough samples (5) to make an assessment determination	
OK620920010180_00	Main Creek	Fishes Bioassessments	WQS attained; fish bioassessment indicates full support	
OK620930000010_00	Cimarron River	Thallium	WQS attained; all data collected are less than the 1 ppb reporting limit	
OK620930000100_00	Crooked Creek	Benthic-Macroinvertebrate	WQS attained; macroinvertebrate assessment does not indicate impairment	
OK621000020040_00	Wild Horse Creek	Chloride	WQS attained; 0 of 10 samples exceed SS and mean of 253 is below YMS	
OK621000040010_00	Deer Creek	Benthic-Macroinvertebrate	WQS attained; recent macroinvertebrate bioassessments to not indicate impairment	
OK621000060010_00	Crooked Creek	Escherichia coli	WQS attained; geometric mean of 95 is supporting for E. coli	
OK621010010010_00	Arkansas River, Salt Fork	Chloride	WQS attained; only 1 of 11 samples exceeded SS, and mean of 2426 is below the YMS (station 1505 in Appendix F)	
OK621010010010_00	Arkansas River, Salt Fork	Total Dissolved Solids	WQS attained; 0 of 11 samples exceeded SS, and mean of 3940 is below the YMS (station 1505 in Appendix F)	
OK621010010130_00	Clay Creek, West	Escherichia coli	WQS attained; geometric mean of 39 is supporting for E. coli	

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK621010010160_00	Arkansas River, Salt Fork	Fishes Bioassessments	WQS attained; recent bioassessments do not indicate impairment	
OK621010010160_00	Arkansas River, Salt Fork	Sedimentation/Siltation	WQS not impaired; Sedimentation/siltation cannot be listed unless bioassessments indicate impairment	
OK621100000010_10	Chikaskia River	Turbidity	TMDL completed; EPA TMDL ID# 41128	41128
OK621200010200_00	Arkansas River	Lead	WQS attained; only 1 of 14 samples exceeded Fish and Wildlife Propagation criteria for lead, mean of samples is 2.15 ug/L which is below the Fish Consumption criteria of 5.0 ug/L for Lead	
OK621200010200_00	Arkansas River	Enterococcus	TMDL completed; EPA TMDL ID# 41096	41096
OK621200010270_00	Cleveland Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK621200030040_00	Camp Creek	Fishes Bioassessments	WQS attained; new fish assessments indicate support	
OK621200030100_00	Pawnee Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK621200030350_00	Perry Lake	Color	Change in WQS; color criteria removed from Chapter 45	
OK621200050010_10	Red Rock Creek	Enterococcus	TMDL completed; EPA TMDL ID# 59184	59184
OK621200050010_10	Red Rock Creek	Sulfates	WQS attained; only 1 of 22 samples exceeds 250 mg/L and mean of 98 does not exceed 250 mg/L	
OK621210000030_10	Arkansas River	Enterococcus	TMDL completed; EPA TMDL ID# 59185	59185
OK621210000030_10	Arkansas River	Turbidity	TMDL completed; EPA TMDL ID# 59185	59185
OK720500010010_00	Canadian River, North	Lead	WQS attained; lead mean of 3.9 is below Fish Consumption criterion	
OK720500010010_00	Canadian River, North	Enterococcus	TMDL completed; EPA TMDL ID# 59186	59186
OK720500010070_00	Bent Creek	Enterococcus	TMDL completed; EPA TMDL ID# 59187	59187

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK720500010070_00	Bent Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 59187	59187
OK720500010070_00	Bent Creek	Sulfates	TMDL completed; EPA TMDL ID# 60920	60920
OK720500010140_10	Beaver River (North Canadian)	Enterococcus	TMDL completed; EPA TMDL ID# 59200	59200
OK720500010150_00	Persimmon Creek	Enterococcus	TMDL completed; EPA TMDL ID# 59202	59202
OK720500010150_00	Persimmon Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 59202	59202
OK720500010200_00	Indian Creek	Enterococcus	TMDL completed; EPA TMDL ID# 59203	59203
OK720500010200_00	Indian Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 59203	59203
OK720500020030_00	Wolf Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39240	39240
OK720500020050_00	Otter Creek	Benthic-Macroinvertebrate	WQS attained; macroinvertebrate bioassessment does not indicate impairment and all other parameters supporting WWAC use	
OK720500020070_00	Clear Creek	Benthic-Macroinvertebrate	WQS attained; macroinvertebrate bioassessment does not indicate impairment and all other parameters supporting the WWAC use	
OK720500020130_00	Kiowa Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 39233	39233
OK720500020140_00	Beaver River (North Canadian)	Chloride	TMDL completed; EPA TMDL ID# 60940	60940
OK720500020290_00	Beaver River (North Canadian)	Lead	WQS attained; Lead mean of 0.5 is below the Fish Consumption use criteria	
OK720500020290_00	Beaver River (North Canadian)	Chloride	TMDL completed; EPA TMDL ID# 60941	60941
OK720500020290_00	Beaver River (North Canadian)	Total Dissolved Solids	TMDL completed; EPA TMDL ID# 60941	60941
OK720500020290_00	Beaver River (North Canadian)	Sulfates	TMDL completed; EPA TMDL ID# 60941	60941

Waterbody ID	Waterbody Name	Listing Cause	Delisting Justification	TMDL ID (if completed)
OK720500020450_00	Beaver River (North Canadian)	Chloride	TMDL completed; EPA TMDL ID# 60960	60960
OK720500020450_00	Beaver River (North Canadian)	Sulfates	TMDL completed; EPA TMDL ID# 60960	60960
OK720500020450_00	Beaver River (North Canadian)	Total Dissolved Solids	TMDL completed; EPA TMDL ID# 60960	60960
OK720500020500_00	Palo Duro Creek	Sulfates	TMDL completed; EPA TMDL ID# 60980	60980
OK720500020500_00	Palo Duro Creek	Total Dissolved Solids	TMDL completed; EPA TMDL ID# 60980	60980
OK720500020500_10	Palo Duro Creek	Oxygen, Dissolved	WQS attained; only 1 of 11 samples below DO criterion	
OK720500020500_10	Palo Duro Creek	Escherichia coli	TMDL completed; EPA TMDL ID# 39235	39235
OK720500030010_00	Wolf Creek	Enterococcus	TMDL completed; EPA TMDL ID# 39238	39238
OK720500030080_00	Buzzard Creek	Escherichia coli	Error in original listing; not enough samples (6) to make an assessment determination	
OK720510000190_00	Beaver River (North Canadian)	Oxygen, Dissolved	WQS not impaired; 5 of 27 samples below DO support criterion (22%) and only 2 of 27 (7%) are below the non-support criterion	
OK720510000275_00	Corrumpa Creek	Enterococcus	Error in original listing; not enough samples (6) to make an assessment determination	
OK720510000275_00	Corrumpa Creek	Escherichia coli	Error in original listing; not enough samples (6) to make an assessment determination	

Appendix E - Completed TMDLs

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK120400010260_00	Arkansas River	Enterococcus	09/27/2012	42530
OK120400010400_00	Coody Creek	Enterococcus	09/27/2012	42532
OK120400010400_00	Coody Creek	Escherichia coli	09/27/2012	42532
OK120400020010_00	Dirty Creek	Enterococcus	09/27/2012	42533
OK120400020010_00	Dirty Creek	Turbidity	09/27/2012	42533
OK120400020030_00	Dirty Creek, South Fork	Enterococcus	09/27/2012	42535
OK120400020110_00	Dirty Creek, Georges Fork	Enterococcus	09/27/2012	42536
OK120400020160_00	Butler Creek	Turbidity	09/27/2012	42538
OK120400020160_00	Butler Creek	Escherichia coli	09/27/2012	42538
OK120400020160_00	Butler Creek	Enterococcus	09/27/2012	42538
OK120400020190_00	Elk Creek	Enterococcus	09/27/2012	42537
OK120400020240_00	Shady Grove Creek	Enterococcus	09/27/2012	42539
OK120410010080_00	Arkansas River	Enterococcus	11/18/2008	35681
OK120410010100_00	Cloud Creek	Enterococcus	09/27/2012	42540
OK120410010100_00	Cloud Creek	Turbidity	09/27/2012	42540
OK120410010210_00	Haikey Creek	Escherichia coli	11/18/2008	35680
OK120410010220_00	Snake Creek	Enterococcus	09/27/2012	42541
OK120410010220_00	Snake Creek	Turbidity	09/27/2012	42541
OK120420010010_00	Arkansas River	Enterococcus	11/18/2008	35669
OK120420010130_00	Arkansas River	Enterococcus	09/27/2012	42564
OK120420020010_00	Polecat Creek	Escherichia coli	09/27/2012	42566
OK120420020050_00	Polecat Creek	Enterococcus	09/27/2012	42568
OK121300010010_00	Bird Creek	Enterococcus	08/16/2011	40585
OK121300010010_00	Bird Creek	Escherichia coli	08/16/2011	40585
OK121300010060_00	Ranch Creek	Escherichia coli	08/16/2011	40972
OK121300010090_00	Coal Creek	Escherichia coli	08/16/2011	40582
OK121300020010_10	Bird Creek	Enterococcus	09/29/2010	39211
OK121300040010_00	Hominy Creek	Enterococcus	09/29/2010	39215

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK121300040280_00	Hominy Creek	Enterococcus	09/22/2010	39160
OK121400010010_10	Caney River	Turbidity	09/28/2010	39216
OK121400010010_10	Caney River	Enterococcus	09/28/2010	39216
OK121400010270_00	Curl Creek	Turbidity	09/28/2010	39217
OK121400010270_00	Curl Creek	Enterococcus	09/28/2010	39217
OK121400010300_00	Hogshooter Creek	Escherichia coli	09/28/2010	39219
OK121400010300_00	Hogshooter Creek	Enterococcus	09/28/2010	39219
OK121400020140_00	Little Caney River	Turbidity	09/28/2010	39218
OK121400020140_00	Little Caney River	Enterococcus	09/28/2010	39218
OK121400020190_00	Mission Creek	Enterococcus	09/28/2010	39220
OK121400020190_00	Mission Creek	Escherichia coli	09/28/2010	39220
OK121400040010_00	Sand Creek	Enterococcus	09/15/2009	37064
OK121400040010_00	Sand Creek	Escherichia coli	09/15/2009	37064
OK121400050020_00	Copan Lake	Chlorophyll-a	09/24/2014	60880
OK121500010200_00	Verdigris River	Enterococcus	09/27/2012	42569
OK121500010200_00	Verdigris River	Turbidity	09/27/2012	42569
OK121500020090_00	Bull Creek	Enterococcus	09/27/2012	42574
OK121500020090_00	Bull Creek	Escherichia coli	09/27/2012	42574
OK121500020090_00	Bull Creek	Turbidity	09/27/2012	42574
OK121500020100_00	Pea Creek	Escherichia coli	09/27/2012	42579
OK121500020100_00	Pea Creek	Enterococcus	09/27/2012	42579
OK121500020260_00	Verdigris River	Enterococcus	09/27/2012	42571
OK121500020260_00	Verdigris River	Turbidity	09/27/2012	42571
OK121500020360_00	Dog Creek	Escherichia coli	09/27/2012	42580
OK121500020360_00	Dog Creek	Oxygen, Dissolved	11/03/2006	31658
OK121500020360_00	Dog Creek	Enterococcus	09/27/2012	42580
OK121500020390_00	Cat Creek	Oxygen, Dissolved	11/03/2006	31657
OK121500030010_00	Verdigris River	Enterococcus	09/27/2012	42572
OK121500040020_00	Claremore Lake	Chlorophyll-a	09/24/2014	60900

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK121510020010_00	Verdigris River	Enterococcus	09/30/2012	50980
OK121510020010_00	Verdigris River	Turbidity	10/01/2012	50814
OK121510020050_00	California Creek	Enterococcus	10/01/2012	50980
OK121510030010_00	Big Creek	Enterococcus	09/30/2012	50814
OK121510030010_00	Big Creek	Escherichia coli	10/01/2012	50814
OK121600010010_00	Neosho River	Enterococcus	09/27/2012	42581
OK121600010060_00	Ranger Creek	Enterococcus	07/28/2008	34847
OK121600010100_00	Fourteenmile Creek	Enterococcus	07/28/2008	34848
OK121600010430_00	Chouteau Creek	Enterococcus	09/27/2012	42582
OK121600010430_00	Chouteau Creek	Escherichia coli	09/27/2012	42582
OK121600010440_00	Crutchfield Branch	Enterococcus	07/28/2008	34849
OK121600010440_00	Crutchfield Branch	Escherichia coli	07/28/2008	34849
OK121600020030_10	Saline Creek	Enterococcus	05/13/2014	58701
OK121600020070_00	Little Saline Creek	Enterococcus	05/13/2014	58702
OK121600030090_00	Drowning Creek	Enterococcus	07/28/2008	34851
OK121600030090_00	Drowning Creek	Escherichia coli	07/28/2008	34851
OK121600030160_00	Horse Creek	Escherichia coli	07/28/2008	34852
OK121600030190_00	Little Horse Creek	Enterococcus	07/28/2008	34854
OK121600030190_00	Little Horse Creek	Escherichia coli	07/28/2008	34854
OK121600030340_00	Cave Springs Branch	Escherichia coli	07/28/2008	34855
OK121600030340_00	Cave Springs Branch	Enterococcus	07/28/2008	34855
OK121600030440_00	Elk River	Enterococcus	07/28/2008	34856
OK121600030445_00	Honey Creek	Enterococcus	07/28/2008	34857
OK121600030445_00	Honey Creek	Escherichia coli	07/28/2008	34857
OK121600030445_10	Honey Creek	Enterococcus	05/13/2014	58704
OK121600030510_00	Sycamore Creek	Enterococcus	07/28/2008	34858
OK121600040010_00	Neosho River	Turbidity	10/01/2012	50980
OK121600040040_00	Hudson Creek	Turbidity	10/01/2012	50814
OK121600040060_00	Tar Creek	Enterococcus	07/28/2008	34919

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK121600040130_00	Cow Creek	Turbidity	10/01/2012	50814
OK121600040220_00	Neosho River	Turbidity	10/01/2012	50814
OK121600040220_00	Neosho River	Enterococcus	10/01/2012	50814
OK121600050020_00	Spavinaw Lake	Phosphorus (Total)	06/09/2010	38670
OK121600050070_00	Eucha Lake	Phosphorus (Total)	06/09/2010	38667
OK121600050150_00	Spavinaw Creek	Enterococcus	05/13/2014	58705
OK121600050160_00	Beaty Creek	Enterococcus	05/13/2014	58707
OK121600050180_00	Cloud Creek	Enterococcus	05/13/2014	58708
OK121600060080_00	Little Cabin Creek	Escherichia coli	10/01/2012	50980
OK121600060080_00	Little Cabin Creek	Enterococcus	10/01/2012	50980
OK121600070010_00	Spring River	Enterococcus	10/01/2012	50980
OK121600070110_00	Fivemile Creek	Enterococcus	10/01/2012	50814
OK121610000050_10	Pryor Creek	Escherichia coli	05/13/2014	58709
OK121610000050_10	Pryor Creek	Turbidity	05/13/2014	58709
OK121610000050_10	Pryor Creek	Enterococcus	05/13/2014	58709
OK121610000090_00	Pryor Creek	Turbidity	05/13/2014	58709
OK220100010010_00	Poteau River	Turbidity	05/13/2014	58800
OK220100010010_40	Poteau River	Turbidity	05/13/2014	58820
OK220100030010_00	Brazil Creek	Enterococcus	05/13/2014	58760
OK220100040020_00	Fourche Maline Creek	Enterococcus	10/28/2008	35634
OK220200030010_20	Sallisaw Creek	Enterococcus	05/13/2014	58780
OK220200040010_10	Sans Bois Creek	Enterococcus	05/13/2014	58782
OK220200040010_40	Sans Bois Creek	Enterococcus	10/20/2008	35635
OK220200040010_40	Sans Bois Creek	Escherichia coli	10/20/2008	35635
OK220200040050_00	Sans Bois Creek, Mountain Fork	Escherichia coli	10/20/2008	35626
OK220600010070_10	Longtown Creek	Enterococcus	10/20/2008	35627
OK220600010070_10	Longtown Creek	Escherichia coli	10/20/2008	35627
OK220600010100_20	Mill Creek	Enterococcus	10/20/2008	35628
OK220600010119_10	Canadian River	Turbidity	05/13/2014	58783

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK220600010119_10	Canadian River	Enterococcus	05/13/2014	58783
OK220600030010_00	Brushy Creek	Enterococcus	10/20/2008	35630
OK220600030010_10	Brushy Creek	Escherichia coli	10/20/2008	35631
OK220600030010_10	Brushy Creek	Enterococcus	10/20/2008	35631
OK220600030020_00	Blue Creek	Escherichia coli	10/20/2008	35636
OK220600030020_00	Blue Creek	Enterococcus	10/20/2008	35636
OK220600030050_00	Peaceable Creek	Enterococcus	10/20/2008	35632
OK220600030050_00	Peaceable Creek	Escherichia coli	10/20/2008	35632
OK220600040030_00	Beaver Creek	Escherichia coli	10/20/2008	35633
OK220600050060_00	Mud Creek	Oxygen, Dissolved	11/30/1999	831
OK310800020010_00	Washita River	Turbidity	09/22/2010	39164
OK310800020010_00	Washita River	Enterococcus	09/21/2007	33274
OK310800020040_00	Sand Branch	Turbidity	09/22/2010	39165
OK310800020190_00	Chigley Sandy Creek	Escherichia coli	09/21/2007	33276
OK310800020190_00	Chigley Sandy Creek	Enterococcus	09/21/2007	33276
OK310800030010_00	Caddo Creek	Escherichia coli	09/20/2012	42415
OK310800030010_00	Caddo Creek	Enterococcus	09/20/2012	42415
OK310800030020_00	Sand Creek	Ammonia	01/30/2004	10625
OK310800030020_00	Sand Creek	Oxygen, Dissolved	01/30/2004	10625
OK310810010010_10	Washita River	Enterococcus	09/21/2007	33277
OK310810010010_10	Washita River	Turbidity	09/22/2010	39166
OK310810010050_00	Kickapoo Sandy Creek	Escherichia coli	09/22/2010	39167
OK310810010050_00	Kickapoo Sandy Creek	Turbidity	09/22/2010	39167
OK310810010050_00	Kickapoo Sandy Creek	Enterococcus	09/22/2010	39167
OK310810010090_10	Rush Creek	Chloride	09/19/2013	53311
OK310810010190_00	Washington Creek	Turbidity	09/22/2010	39170
OK310810010270_00	Rush Creek, Trib G!	Chloride	09/19/2013	53310
OK310810020010_00	Washita River	Turbidity	09/22/2010	39171
OK310810020010_00	Washita River	Enterococcus	09/22/2010	39171

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK310810020020_00	Finn Creek	Enterococcus	09/20/2012	42423
OK310810020170_00	Roaring Creek	Enterococcus	09/21/2007	33279
OK310810020170_00	Roaring Creek	Escherichia coli	09/21/2007	33279
OK310810020200_00	Laflin Creek	Enterococcus	09/21/2007	33280
OK310810020200_00	Laflin Creek	Escherichia coli	09/21/2007	33280
OK310810030010_00	Wildhorse Creek	Enterococcus	09/20/2012	42425
OK310810030080_00	Salt Creek	Enterococcus	09/20/2012	42424
OK310810040140_00	Wildhorse Creek	Enterococcus	09/22/2010	39172
OK310810040140_00	Wildhorse Creek	Turbidity	09/22/2010	39172
OK310810040140_00	Wildhorse Creek	Escherichia coli	09/22/2010	39172
OK310810050120_00	Rush Creek, Trib E!	Chloride	09/19/2013	53309
OK310810050130_00	Cox City!	Chloride	09/19/2013	53307
OK310810050140_00	West Cox City!	Chloride	09/19/2013	53308
OK310820010030_00	Bitter Creek	Enterococcus	09/21/2007	33281
OK310820010030_00	Bitter Creek	Escherichia coli	09/21/2007	33281
OK310820020010_00	Little Washita River	Enterococcus	09/20/2012	42414
OK310830010010_00	Washita River	Enterococcus	09/21/2007	33282
OK310830010010_00	Washita River	Turbidity	09/22/2010	39173
OK310830020020_00	Stinking Creek	Escherichia coli	09/22/2010	39174
OK310830020020_00	Stinking Creek	Enterococcus	09/22/2010	39174
OK310830020020_00	Stinking Creek	Turbidity	09/22/2010	39174
OK310830020060_10	Rainy Mountain Creek	Turbidity	09/22/2010	39175
OK310830030010_00	Washita River	Turbidity	09/22/2010	39176
OK310830030010_00	Washita River	Enterococcus	09/21/2007	33283
OK310830030010_00	Washita River	Escherichia coli	09/21/2007	33283
OK310830030100_00	Boggy Creek	Escherichia coli	09/20/2012	42417
OK310830030100_00	Boggy Creek	Enterococcus	09/20/2012	42417
OK310830030210_00	Barnitz Creek, East	Enterococcus	09/20/2012	42416
OK310830030230_00	Barnitz Creek, West	Enterococcus	09/20/2012	42418

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK310830040010_00	Spring Creek	Enterococcus	09/20/2012	42422
OK310830040010_00	Spring Creek	Escherichia coli	09/20/2012	42422
OK310830060020_00	Fort Cobb Lake	Phosphorus (Total)	07/26/2006	23066
OK310830060020_00	Fort Cobb Lake	Chlorophyll-a	07/26/2006	23066
OK310830060030_00	Willow Creek	Enterococcus	09/21/2007	33285
OK310830060030_00	Willow Creek	Escherichia coli	09/21/2007	33285
OK310830060050_00	Cobb Creek	Enterococcus	09/20/2012	42419
OK310830060050_00	Cobb Creek	Escherichia coli	09/20/2012	42419
OK310830060080_00	Fivemile Creek	Enterococcus	09/20/2012	42420
OK310830060080_00	Fivemile Creek	Escherichia coli	09/20/2012	42420
OK310840010010_00	Washita River	Turbidity	09/22/2010	39177
OK310840010010_00	Washita River	Enterococcus	09/21/2007	33286
OK310840010010_00	Washita River	Escherichia coli	09/21/2007	33286
OK310840010060_00	Quartermaster Creek	Escherichia coli	09/21/2007	33278
OK310840010060_00	Quartermaster Creek	Enterococcus	09/21/2007	33278
OK310840020010_00	Washita River	Turbidity	09/22/2010	39178
OK310840020020_00	Sandstone Creek	Escherichia coli	09/22/2010	39180
OK310840020020_00	Sandstone Creek	Turbidity	09/22/2010	39180
OK310840020020_00	Sandstone Creek	Enterococcus	09/22/2010	39180
OK311100010190_00	Red River	Turbidity	09/20/2012	42452
OK311100010190_20	Red River	Turbidity	09/20/2012	42448
OK311100010190_20	Red River	Enterococcus	09/20/2012	42448
OK311100010290_00	Red Creek	Escherichia coli	09/22/2010	39183
OK311100010290_00	Red Creek	Enterococcus	09/22/2010	39183
OK311100010290_00	Red Creek	Turbidity	09/22/2010	39183
OK311100010300_00	Fleetwood Creek	Turbidity	09/22/2010	39184
OK311100040010_00	Mud Creek	Enterococcus	09/21/2007	33287
OK311100040010_00	Mud Creek	Turbidity	09/22/2010	39186
OK311100040080_00	Mud Creek, Lower West	Enterococcus	09/21/2007	33288

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OK311100040080_00	Mud Creek, Lower West	Turbidity	09/22/2010	39187
OK311100040080_00	Mud Creek, Lower West	Escherichia coli	09/21/2007	33288
OK311200000010_00	Red River	Turbidity	09/20/2012	42449
OK311200000010_00	Red River	Enterococcus	09/20/2012	42449
OK311200000030_00	Beaver Creek	Enterococcus	09/22/2010	39188
OK311200000030_00	Beaver Creek	Turbidity	09/22/2010	39188
OK311200000060_00	Cow Creek	Escherichia coli	09/21/2007	33289
OK311200000060_00	Cow Creek	Turbidity	09/22/2010	39189
OK311200000060_00	Cow Creek	Enterococcus	09/21/2007	33289
OK311200000080_00	Dry Creek	Turbidity	09/22/2010	39190
OK311210000020_00	Waurika Lake	Chlorophyll-a	09/16/2013	53302
OK311210000050_00	Little Beaver Creek	Turbidity	09/20/2012	42444
OK311210000050_00	Little Beaver Creek	Enterococcus	09/20/2012	42444
OK311210000050_00	Little Beaver Creek	Escherichia coli	09/20/2012	42444
OK311210000140_00	Whisky Creek	Enterococcus	09/21/2007	33290
OK311210000140_00	Whisky Creek	Escherichia coli	09/21/2007	33290
OK311210000150_00	Cottonwood Creek	Escherichia coli	09/21/2007	33291
OK311210000150_00	Cottonwood Creek	Enterococcus	09/21/2007	33291
OK311300010020_00	Cache Creek, East	Turbidity	09/22/2010	39191
OK311300010020_00	Cache Creek, East	Enterococcus	09/21/2007	33292
OK311300010020_00	Cache Creek, East	Escherichia coli	09/21/2007	33292
OK311300010020_10	Cache Creek, East	Turbidity	09/22/2010	39192
OK311300010020_10	Cache Creek, East	Enterococcus	09/21/2007	33292
OK311300030020_00	Ellsworth Lake	Chlorophyll-a	09/16/2013	53306
OK311300030070_00	Tahoe Creek	Escherichia coli	09/21/2007	33293
OK311300040070_00	Lawtonka Lake	Chlorophyll-a	09/16/2013	53301
OK311310010010_00	Red River	Enterococcus	09/21/2007	33294
OK311310010070_00	Suttle Creek	Turbidity	09/22/2010	39193
OK311310020010_00	Cache Creek, West	Escherichia coli	09/21/2007	33295

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OK311310020010_00	Cache Creek, West	Enterococcus	09/21/2007	33295
OK311310020010_00	Cache Creek, West	Turbidity	09/22/2010	39194
OK311310030010_00	Deep Red Creek	Turbidity	09/22/2010	39195
OK311310030010_00	Deep Red Creek	Escherichia coli	09/22/2010	39195
OK311310030010_00	Deep Red Creek	Enterococcus	09/22/2010	39195
OK311310030040_00	Little Deep Red Creek	Turbidity	09/22/2010	39196
OK311310030050_00	Brush Creek	Enterococcus	09/21/2007	33296
OK311310030050_00	Brush Creek	Escherichia coli	09/21/2007	33296
OK311310030050_00	Brush Creek	Turbidity	07/28/2008	39198
OK311500010020_10	Red River, North Fork	Enterococcus	07/28/2008	34831
OK311500010020_10	Red River, North Fork	Turbidity	09/22/2010	39199
OK311500010050_00	Stinking Creek	Escherichia coli	07/28/2008	34850
OK311500010050_00	Stinking Creek	Enterococcus	07/28/2008	34850
OK311500010050_00	Stinking Creek	Turbidity	09/22/2010	39200
OK311500010080_00	Otter Creek	Turbidity	09/22/2010	39201
OK311500010080_00	Otter Creek	Escherichia coli	09/22/2010	39201
OK311500010080_00	Otter Creek	Enterococcus	09/22/2010	39201
OK311500010110_00	Tepee Creek	Escherichia coli	07/28/2008	34832
OK311500010110_00	Tepee Creek	Enterococcus	07/28/2008	34832
OK311500020040_00	Otter Creek, West	Enterococcus	07/28/2008	34833
OK311500020040_00	Otter Creek, West	Escherichia coli	07/28/2008	34833
OK311500020060_00	Tom Steed Lake	Chlorophyll-a	09/30/2011	41064
OK311500030010_00	Elk Creek	Escherichia coli	07/28/2008	34834
OK311500030010_00	Elk Creek	Turbidity	09/22/2010	39202
OK311500030010_00	Elk Creek	Enterococcus	07/28/2008	34834
OK311500030060_00	Rocky Lake	Chlorophyll-a	09/30/2011	41063
OK311510010010_10	Red River, North Fork	Enterococcus	07/28/2008	34836
OK311510010010_10	Red River, North Fork	Turbidity	09/22/2010	39203
OK311510010040_00	Lake Creek	Enterococcus	09/20/2012	42451

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK311510010040_00	Lake Creek	Escherichia coli	09/20/2012	42451
OK311510010090_00	Timber Creek	Enterococcus	09/20/2012	42447
OK311510010090_00	Timber Creek	Escherichia coli	09/20/2012	42447
OK311510010090_00	Timber Creek	Turbidity	09/20/2012	42447
OK311510020060_00	Turkey Creek	Enterococcus	07/28/2008	34837
OK311510020090_00	Buffalo Creek	Enterococcus	09/20/2012	42428
OK311510020090_00	Buffalo Creek	Escherichia coli	09/20/2012	42428
OK311510020120_00	Sweetwater Creek	Escherichia coli	09/22/2010	39204
OK311510020120_00	Sweetwater Creek	Turbidity	09/22/2010	39204
OK311510020120_00	Sweetwater Creek	Enterococcus	09/22/2010	39204
OK311600010020_00	Gypsum Creek	Enterococcus	09/22/2010	39205
OK311600010020_00	Gypsum Creek	Turbidity	09/22/2010	39205
OK311600010040_00	Sandy Creek (Lebos)	Turbidity	09/22/2010	39206
OK311600010040_00	Sandy Creek (Lebos)	Enterococcus	07/28/2008	34838
OK311600020010_00	Red River, Salt Fork	Escherichia coli	07/28/2008	34839
OK311600020010_00	Red River, Salt Fork	Enterococcus	07/28/2008	34839
OK311600020010_10	Red River, Salt Fork	Enterococcus	07/28/2008	34840
OK311600020060_00	Turkey Creek	Escherichia coli	09/20/2012	42446
OK311600020060_00	Turkey Creek	Turbidity	09/20/2012	42446
OK311600020060_00	Turkey Creek	Enterococcus	09/20/2012	42446
OK311600020110_05	Bitter Creek	Enterococcus	07/28/2008	34841
OK311600020110_05	Bitter Creek	Turbidity	09/20/2012	42445
OK311600020140_00	Cave Creek	Escherichia coli	07/28/2008	34842
OK311600020140_00	Cave Creek	Enterococcus	07/28/2008	34842
OK311800000010_00	Red River, Elm Fork	Escherichia coli	07/28/2008	34843
OK311800000010_00	Red River, Elm Fork	Enterococcus	07/28/2008	34843
OK311800000040_00	Haystack Creek	Turbidity	09/22/2010	39207
OK311800000040_00	Haystack Creek	Escherichia coli	09/22/2010	39207
OK311800000040_00	Haystack Creek	Enterococcus	09/22/2010	39207

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK311800000060_00	Station Creek	Enterococcus	09/20/2012	42450
OK311800000070_00	Deer Creek	Turbidity	09/22/2010	39208
OK311800000070_00	Deer Creek	Enterococcus	07/28/2008	34844
OK311800000070_00	Deer Creek	Escherichia coli	07/28/2008	34844
OK311800000130_00	Fish Creek	Enterococcus	07/28/2008	34845
OK410100010010_10	Red River	Turbidity	09/08/2014	59164
OK410200010200_10	Little River	Turbidity	09/08/2014	59165
OK410200030010_00	Rock Creek	Turbidity	09/08/2014	59167
OK410210020140_00	Little River	Turbidity	09/08/2014	59168
OK410210020140_00	Little River	Enterococcus	09/21/2007	33303
OK410210020300_00	Cloudy Creek	Turbidity	09/08/2014	59169
OK410210040010_00	Little River, Mountain Fork	Enterococcus	09/21/2007	33304
OK410210040010_10	Little River, Mountain Fork	Enterococcus	09/21/2007	33305
OK410210060020_00	Buffalo Creek	Turbidity	09/08/2014	59170
OK410210060320_00	Beech Creek	Turbidity	09/08/2014	59171
OK410210060350_00	Cow Creek	Turbidity	09/08/2014	59172
OK410210080010_00	Glover River	Turbidity	09/08/2014	59173
OK410210080010_00	Glover River	Enterococcus	09/21/2007	33306
OK410300010010_00	Kiamichi River	Enterococcus	09/08/2014	59163
OK410300010020_00	Gates Creek	Turbidity	09/08/2014	59174
OK410300010100_00	Bird Creek	Turbidity	09/08/2014	59175
OK410300030010_10	Kiamichi River	Enterococcus	09/21/2007	33307
OK410300030270_00	Tenmile Creek	Enterococcus	09/21/2007	33309
OK410310010010_00	Kiamichi River	Enterococcus	09/08/2014	59162
OK410310020010_10	Kiamichi River	Enterococcus	09/08/2014	59160
OK410400010010_20	Red River	Enterococcus	09/21/2007	33297
OK410400010070_00	Muddy Boggy Creek	Enterococcus	09/21/2007	33298
OK410400010070_00	Muddy Boggy Creek	Turbidity	09/20/2012	42476
OK410400010130_00	Lick Creek	Turbidity	09/20/2012	42479

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK410400010210_00	Whitegrass Creek	Turbidity	09/20/2012	42481
OK410400030010_00	Clear Boggy Creek	Turbidity	09/20/2012	42468
OK410400030010_00	Clear Boggy Creek	Enterococcus	09/21/2007	33299
OK410400030370_00	Leader Creek	Turbidity	09/20/2012	42474
OK410400030490_00	Goose Creek	Turbidity	09/20/2012	42470
OK410400050270_10	Muddy Boggy Creek	Enterococcus	09/21/2007	33300
OK410400050270_10	Muddy Boggy Creek	Turbidity	09/20/2012	42455
OK410400050270_10	Muddy Boggy Creek	Enterococcus	09/20/2012	42455
OK410400060120_00	Caney Boggy Creek	Turbidity	09/20/2012	42458
OK410600010010_00	Blue River	Enterococcus	09/21/2007	33301
OK410600010030_00	Sulphur Creek	Turbidity	09/22/2010	39181
OK520500010110_10	Canadian River, North	Turbidity	08/16/2011	40589
OK520500010110_10	Canadian River, North	Enterococcus	08/16/2011	40589
OK520500010170_00	Bad Creek	Enterococcus	08/16/2011	40591
OK520500010170_00	Bad Creek	Escherichia coli	09/25/2014	60820
OK520500010200_00	Alabama Creek	Enterococcus	09/25/2014	60840
OK520500010200_00	Alabama Creek	Escherichia coli	09/25/2014	60840
OK520500020010_00	Wewoka Creek	Turbidity	08/16/2011	40592
OK520500020010_00	Wewoka Creek	Enterococcus	08/16/2011	40592
OK520500020010_00	Wewoka Creek	Escherichia coli	09/25/2014	60860
OK520500020090_00	Little Wewoka Creek	Escherichia coli	09/25/2014	60861
OK520500020090_00	Little Wewoka Creek	Enterococcus	09/25/2014	60861
OK520510000010_00	Canadian River, North	Enterococcus	08/16/2011	40595
OK520510000010_00	Canadian River, North	Turbidity	08/16/2011	40595
OK520510000110_00	Canadian River, North	Turbidity	08/16/2011	40590
OK520510000110_00	Canadian River, North	Enterococcus	08/16/2011	40590
OK520510000110_20	Canadian River, North	Enterococcus	06/29/2010	38886
OK520520000010_00	Canadian River, North	Enterococcus	06/29/2010	38869
OK520520000010_10	Canadian River, North	Enterococcus	06/29/2010	38885

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK520520000010_20	Canadian River, North	Enterococcus	06/29/2010	38884
OK520520000010_30	Canadian River, North	Escherichia coli	06/29/2010	38883
OK520520000010_30	Canadian River, North	Enterococcus	06/29/2010	38883
OK520520000010_40	Canadian River, North	Enterococcus	06/29/2010	38882
OK520520000150_00	Crooked Oak Creek	Escherichia coli	06/29/2010	38875
OK520520000210_00	Canadian River, North	Enterococcus	06/29/2010	38881
OK520520000240_00	Mustang Creek	Escherichia coli	06/29/2010	38874
OK520530000010_10	Canadian River, North	Enterococcus	11/06/2007	33888
OK520530000010_10	Canadian River, North	Escherichia coli	11/06/2007	33888
OK520530000030_00	Shell Creek	Enterococcus	11/06/2007	33889
OK520530000030_00	Shell Creek	Escherichia coli	11/06/2007	33889
OK520600010010_00	Canadian River	Enterococcus	10/20/2008	35619
OK520600010060_00	Factory Creek	Escherichia coli	10/28/2008	35615
OK520610010010_05	Canadian River	Enterococcus	10/20/2008	35621
OK520610010080_00	Willow Creek	Escherichia coli	10/20/2008	35617
OK520610020120_00	Buggy Creek	Enterococcus	10/20/2008	35618
OK520610020120_00	Buggy Creek	Escherichia coli	10/20/2008	35618
OK520610020150_10	Canadian River	Enterococcus	10/20/2008	35623
OK520610030080_00	Walnut Creek, North Fork	Enterococcus	09/29/2009	35624
OK520610030080_00	Walnut Creek, North Fork	Escherichia coli	09/29/2009	35624
OK520620010120_00	Bear Creek	Enterococcus	09/29/2006	30710
OK520620010120_00	Bear Creek	Escherichia coli	09/29/2006	30710
OK520620020010_00	Canadian River	Enterococcus	09/29/2006	30714
OK520620020090_00	Trail Creek	Enterococcus	09/29/2006	30717
OK520620020090_00	Trail Creek	Escherichia coli	09/29/2006	30717
OK520620030020_00	Lone Creek	Escherichia coli	09/29/2006	30718
OK520620030020_00	Lone Creek	Enterococcus	09/29/2006	30718
OK520620030050_00	Red Trail Creek	Escherichia coli	09/29/2006	30747
OK520620030050_00	Red Trail Creek	Enterococcus	09/29/2006	30747

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OK520620030110_00	Red Creek	Escherichia coli	09/29/2006	30757
OK520620030110_00	Red Creek	Enterococcus	09/29/2006	30757
OK520620040050_00	Hackberry Creek	Enterococcus	09/29/2006	30759
OK520620040050_00	Hackberry Creek	Escherichia coli	09/29/2006	30759
OK520620050160_00	Commission Creek	Enterococcus	09/29/2006	30730
OK520620050160_00	Commission Creek	Escherichia coli	09/29/2006	30730
OK520620060010_00	Deer Creek	Escherichia coli	09/29/2006	30723
OK520620060010_00	Deer Creek	Enterococcus	09/29/2006	30723
OK520700020010_10	Canadian River, Deep Fork	Enterococcus	09/30/2011	41134
OK520700020010_10	Canadian River, Deep Fork	Turbidity	09/30/2011	41134
OK520700030100_00	Salt Creek	Enterococcus	09/30/2011	41065
OK520700030220_00	Camp Creek	Enterococcus	09/30/2011	41066
OK520700040010_00	Canadian River, Deep Fork	Turbidity	09/30/2011	41069
OK520700040010_00	Canadian River, Deep Fork	Enterococcus	09/30/2011	41069
OK520700040020_00	Dry Creek	Escherichia coli	09/30/2011	41070
OK520700040020_00	Dry Creek	Turbidity	09/30/2011	41070
OK520700040020_00	Dry Creek	Enterococcus	09/30/2011	41070
OK520700040260_00	Quapaw Creek	Enterococcus	09/30/2011	41072
OK520700040260_00	Quapaw Creek	Turbidity	09/30/2011	41072
OK520700050020_00	Bellcow Creek	Enterococcus	09/30/2011	41078
OK520700050200_00	Opossum Creek	Turbidity	09/30/2011	41077
OK520700060130_10	Little Deep Fork Creek	Turbidity	09/30/2011	41133
OK520700060140_00	Catfish Creek	Turbidity	09/30/2011	41132
OK520800010010_00	Little River	Enterococcus	10/20/2008	35625
OK520810000020_00	Thunderbird Lake	Chlorophyll-a	11/13/2013	55040
OK520810000020_00	Thunderbird Lake	Oxygen, Dissolved	11/13/2013	55040
OK520810000020_00	Thunderbird Lake	Turbidity	11/13/2013	55040
OK620900010170_10	Cimarron River	Turbidity	09/20/2012	42499
OK620900010170_10	Cimarron River	Enterococcus	09/20/2012	42499

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OK620900010180_00	Lagoon Creek	Escherichia coli	09/20/2012	42501
OK620900010180_00	Lagoon Creek	Enterococcus	09/20/2012	42501
OK620900010290_00	Euchee Creek	Escherichia coli	09/20/2012	42509
OK620900010290_00	Euchee Creek	Enterococcus	09/20/2012	42509
OK620900010290_00	Euchee Creek	Turbidity	09/20/2012	42509
OK620900010310_00	Cottonwood Creek	Escherichia coli	09/20/2012	42504
OK620900010310_00	Cottonwood Creek	Enterococcus	09/20/2012	42504
OK620900020020_00	Salt Creek	Escherichia coli	09/20/2012	42512
OK620900020020_00	Salt Creek	Enterococcus	09/20/2012	42512
OK620900020050_00	Council Creek	Escherichia coli	09/20/2012	42511
OK620900020050_00	Council Creek	Enterococcus	09/20/2012	42511
OK620900020050_00	Council Creek	Turbidity	09/20/2012	42511
OK620900030010_00	Cimarron River	Turbidity	09/20/2012	42492
OK620900030010_00	Cimarron River	Enterococcus	09/20/2012	42492
OK620900030080_00	Dugout Creek	Enterococcus	09/20/2012	42513
OK620900030080_00	Dugout Creek	Escherichia coli	09/20/2012	42513
OK620900030230_00	Beaver Creek	Enterococcus	09/20/2012	42502
OK620900030230_00	Beaver Creek	Escherichia coli	09/20/2012	42502
OK620900030230_00	Beaver Creek	Turbidity	09/20/2012	42502
OK620900030260_00	Beaver Creek, West	Turbidity	09/20/2012	42505
OK620900040040_00	Stillwater Creek	Escherichia coli	09/20/2012	42510
OK620900040040_00	Stillwater Creek	Enterococcus	09/20/2012	42510
OK620900040040_00	Stillwater Creek	Turbidity	09/20/2012	42510
OK620910010010_00	Cimarron River	Enterococcus	09/29/2009	37386
OK620910020010_00	Cimarron River	Escherichia coli	08/26/2011	40623
OK620910020010_00	Cimarron River	Enterococcus	08/26/2011	40623
OK620910020010_00	Cimarron River	Turbidity	08/26/2011	40623
OK620910020010_10	Cimarron River	Escherichia coli	08/26/2011	40622
OK620910020010_10	Cimarron River	Enterococcus	08/26/2011	40622

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK620910020040_00	Cooper Creek	Turbidity	05/28/2010	38650
OK620910020040_00	Cooper Creek	Escherichia coli	09/29/2009	37387
OK620910020040_00	Cooper Creek	Enterococcus	09/29/2009	37387
OK620910020250_00	Deep Creek	Enterococcus	09/29/2009	37396
OK620910020250_00	Deep Creek	Escherichia coli	09/29/2009	37396
OK620910020270_00	Elm Creek	Enterococcus	09/29/2009	37398
OK620910020270_00	Elm Creek	Escherichia coli	09/29/2009	37398
OK620910020270_00	Elm Creek	Turbidity	05/28/2010	38651
OK620910020310_00	Indian Creek	Escherichia coli	09/29/2009	37399
OK620910020310_00	Indian Creek	Enterococcus	09/29/2009	37399
OK620910030010_00	Skeleton Creek	Escherichia coli	09/29/2009	37402
OK620910030010_00	Skeleton Creek	Turbidity	05/28/2010	38652
OK620910030010_00	Skeleton Creek	Enterococcus	09/29/2009	37402
OK620910030040_00	Otter Creek	Escherichia coli	09/20/2012	42583
OK620910030040_00	Otter Creek	Enterococcus	09/20/2012	42583
OK620910040010_20	Cottonwood Creek	Turbidity	05/28/2010	38653
OK620910040010_20	Cottonwood Creek	Escherichia coli	09/29/2009	37407
OK620910040010_20	Cottonwood Creek	Enterococcus	09/29/2009	37407
OK620910040060_00	Guthrie Lake	Chlorophyll-a	05/18/2012	41750
OK620910040080_00	Liberty Lake	Chlorophyll-a	05/18/2012	41751
OK620910040120_00	Deer Creek	Escherichia coli	09/29/2009	37408
OK620910040120_00	Deer Creek	Enterococcus	09/29/2009	37408
OK620910040120_00	Deer Creek	Turbidity	05/28/2010	38654
OK620910040140_00	Bluff Creek	Enterococcus	09/20/2012	42517
OK620910050010_00	Kingfisher Creek	Escherichia coli	09/29/2009	37410
OK620910050010_00	Kingfisher Creek	Enterococcus	09/29/2009	37410
OK620910050010_00	Kingfisher Creek	Turbidity	05/28/2010	38655
OK620910050020_00	Trail Creek	Enterococcus	09/29/2009	37412
OK620910050020_00	Trail Creek	Escherichia coli	09/29/2009	37412

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK620910050030_00	Uncle Johns Creek	Enterococcus	09/29/2009	37413
OK620910050030_00	Uncle Johns Creek	Escherichia coli	09/29/2009	37413
OK620910050080_00	Winter Camp Creek	Turbidity	05/28/2010	38656
OK620910050080_00	Winter Camp Creek	Escherichia coli	09/29/2009	37414
OK620910050080_00	Winter Camp Creek	Enterococcus	09/29/2009	37414
OK620910060010_00	Turkey Creek	Enterococcus	09/29/2006	30704
OK620910060010_00	Turkey Creek	Turbidity	09/29/2006	30704
OK620910060020_00	Little Turkey Creek	Enterococcus	09/29/2006	30706
OK620910060020_00	Little Turkey Creek	Turbidity	09/29/2006	30706
OK620910060030_00	Buffalo Creek	Turbidity	09/29/2006	30707
OK620920010010_00	Cimarron River	Turbidity	08/26/2011	40624
OK620920010010_00	Cimarron River	Escherichia coli	08/26/2011	40624
OK620920010010_00	Cimarron River	Enterococcus	08/26/2011	40624
OK620920010080_00	Cottonwood Creek	Turbidity	08/26/2011	40618
OK620920010130_00	Griever Creek	Enterococcus	08/26/2011	40621
OK620920010180_00	Main Creek	Enterococcus	08/26/2011	40617
OK620920010180_00	Main Creek	Escherichia coli	08/26/2011	40617
OK620920010180_00	Main Creek	Turbidity	08/26/2011	40617
OK620920020010_00	Cimarron River	Escherichia coli	08/26/2011	40615
OK620920020080_00	Long Creek	Enterococcus	08/26/2011	40616
OK620920020080_00	Long Creek	Escherichia coli	08/26/2011	40616
OK620920030010_00	Cimarron River	Escherichia coli	08/26/2011	40609
OK620920030010_00	Cimarron River	Enterococcus	08/26/2011	40609
OK620920040010_00	Eagle Chief Creek	Turbidity	08/26/2011	40625
OK620920040010_00	Eagle Chief Creek	Escherichia coli	08/26/2011	40625
OK620920040010_00	Eagle Chief Creek	Enterococcus	08/26/2011	40625
OK620920050010_00	Buffalo Creek	Escherichia coli	08/26/2011	40612
OK620920050010_00	Buffalo Creek	Enterococcus	08/26/2011	40612
OK620920050050_00	Sand Creek	Enterococcus	08/26/2011	40614

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK620920050050_00	Sand Creek	Escherichia coli	08/26/2011	40614
OK620930000010_00	Cimarron River	Enterococcus	08/16/2011	40587
OK620930000100_00	Crooked Creek	Enterococcus	08/16/2011	40588
OK621000010010_30	Arkansas River, Salt Fork	Turbidity	09/30/2011	41080
OK621000010010_30	Arkansas River, Salt Fork	Enterococcus	09/30/2011	41080
OK621000030010_00	Bois D' Arc Creek	Enterococcus	09/30/2011	41129
OK621000030010_00	Bois D' Arc Creek	Escherichia coli	09/30/2011	41129
OK621000030010_00	Bois D' Arc Creek	Turbidity	09/30/2011	41129
OK621000040010_00	Deer Creek	Escherichia coli	09/30/2011	41084
OK621000040010_00	Deer Creek	Enterococcus	09/30/2011	41084
OK621000040010_00	Deer Creek	Turbidity	09/30/2011	41084
OK621000050010_00	Pond Creek	Turbidity	09/30/2011	41115
OK621000050010_00	Pond Creek	Enterococcus	09/30/2011	41115
OK621000050010_00	Pond Creek	Escherichia coli	09/30/2011	41115
OK621000060010_00	Crooked Creek	Turbidity	09/30/2011	41116
OK621000060010_00	Crooked Creek	Enterococcus	09/30/2011	41116
OK621010010010_00	Arkansas River, Salt Fork	Enterococcus	09/30/2011	41121
OK621010010010_00	Arkansas River, Salt Fork	Turbidity	09/30/2011	41121
OK621010010090_00	Clay Creek	Enterococcus	09/30/2011	41125
OK621010010160_00	Arkansas River, Salt Fork	Enterococcus	09/30/2011	41122
OK621010010160_00	Arkansas River, Salt Fork	Escherichia coli	09/30/2011	41122
OK621010010160_00	Arkansas River, Salt Fork	Turbidity	09/30/2011	41122
OK621010010230_00	Turkey Creek	Turbidity	09/30/2011	41098
OK621010010230_00	Turkey Creek	Enterococcus	09/30/2011	41098
OK621010010230_00	Turkey Creek	Escherichia coli	09/30/2011	41098
OK621010010270_00	Yellowstone Creek	Enterococcus	09/30/2011	41123
OK621010020010_00	Sandy Creek	Escherichia coli	09/30/2011	41124
OK621010020010_00	Sandy Creek	Enterococcus	09/30/2011	41124
OK621010030010_00	Medicine Lodge River	Escherichia coli	09/30/2011	41119

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK621010030010_00	Medicine Lodge River	Enterococcus	09/30/2011	41119
OK621010030010_00	Medicine Lodge River	Turbidity	09/30/2011	41119
OK621010030030_00	Driftwood Creek	Escherichia coli	09/30/2011	41117
OK621010030030_00	Driftwood Creek	Enterococcus	09/30/2011	41117
OK621010030030_00	Driftwood Creek	Turbidity	09/30/2011	41117
OK621100000010_00	Chikaskia River	Turbidity	09/30/2011	41088
OK621100000010_00	Chikaskia River	Enterococcus	09/30/2011	41088
OK621100000010_00	Chikaskia River	Escherichia coli	09/30/2011	41088
OK621100000010_10	Chikaskia River	Turbidity	09/30/2011	41128
OK621100000010_10	Chikaskia River	Enterococcus	09/30/2011	41128
OK621100000100_00	Bitter Creek	Turbidity	09/30/2011	41086
OK621100000100_00	Bitter Creek	Enterococcus	09/30/2011	41086
OK621100000100_00	Bitter Creek	Escherichia coli	09/30/2011	41086
OK621200010200_00	Arkansas River	Turbidity	09/30/2011	41096
OK621200010200_00	Arkansas River	Enterococcus	09/30/2011	41096
OK621200010400_00	Gray Horse Creek	Turbidity	05/10/2010	38646
OK621200010400_00	Gray Horse Creek	Enterococcus	09/15/2009	37062
OK621200010400_00	Gray Horse Creek	Escherichia coli	09/15/2009	37062
OK621200020020_00	Doga Creek	Turbidity	05/10/2010	38647
OK621200020020_00	Doga Creek	Enterococcus	09/15/2009	37063
OK621200020020_00	Doga Creek	Escherichia coli	09/15/2009	37063
OK621200030010_00	Black Bear Creek	Turbidity	09/22/2010	39182
OK621200030010_00	Black Bear Creek	Escherichia coli	09/30/2011	41131
OK621200030010_00	Black Bear Creek	Enterococcus	09/30/2011	41131
OK621200040010_00	Salt Creek	Turbidity	05/10/2010	38645
OK621200040010_00	Salt Creek	Enterococcus	09/15/2009	37061
OK621200040010_10	Salt Creek	Escherichia coli	09/15/2009	37059
OK621200040010_10	Salt Creek	Enterococcus	09/15/2009	37059
OK621200050010_00	Red Rock Creek	Escherichia coli	09/30/2011	41108

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK621200050010_00	Red Rock Creek	Turbidity	09/30/2011	41108
OK621200050010_00	Red Rock Creek	Enterococcus	09/30/2011	41108
OK621200050010_10	Red Rock Creek	Enterococcus	09/11/2014	59184
OK621200050010_10	Red Rock Creek	Turbidity	09/30/2011	41113
OK621200050010_10	Red Rock Creek	Escherichia coli	09/30/2011	41113
OK621210000030_10	Arkansas River	Turbidity	09/11/2014	59185
OK621210000030_10	Arkansas River	Enterococcus	09/11/2014	59185
OK621210000050_10	Beaver Creek	Escherichia coli	09/30/2011	41090
OK621210000050_10	Beaver Creek	Enterococcus	09/30/2011	41090
OK621210000270_00	Chilocco Creek	Escherichia coli	09/30/2011	41089
OK621210000270_00	Chilocco Creek	Enterococcus	09/30/2011	41089
OK621210000270_00	Chilocco Creek	Turbidity	09/30/2011	41089
OK720500010010_00	Canadian River, North	Enterococcus	09/11/2014	59186
OK720500010070_00	Bent Creek	Escherichia coli	09/11/2014	59187
OK720500010070_00	Bent Creek	Enterococcus	09/11/2014	59187
OK720500010070_00	Bent Creek	Sulfates	09/23/2014	60920
OK720500010140_10	Beaver River (North Canadian)	Enterococcus	09/11/2014	59200
OK720500010150_00	Persimmon Creek	Turbidity	09/11/2014	59202
OK720500010150_00	Persimmon Creek	Enterococcus	09/11/2014	59202
OK720500010150_00	Persimmon Creek	Escherichia coli	09/11/2014	59202
OK720500010200_00	Indian Creek	Enterococcus	09/11/2014	59203
OK720500010200_00	Indian Creek	Escherichia coli	09/11/2014	59203
OK720500020010_00	Beaver River	Enterococcus	09/28/2010	39225
OK720500020030_00	Wolf Creek	Turbidity	09/23/2010	39240
OK720500020030_00	Wolf Creek	Enterococcus	09/28/2010	39240
OK720500020050_00	Otter Creek	Escherichia coli	09/28/2010	39234
OK720500020050_00	Otter Creek	Enterococcus	09/28/2010	39234
OK720500020070_00	Clear Creek	Escherichia coli	09/28/2010	39227
OK720500020070_00	Clear Creek	Enterococcus	09/28/2010	39227

Waterbody ID	Waterbody Name	Cause	TMDL Completion Date	TMDL ID
OK720500020100_00	Spring Creek	Escherichia coli	09/28/2010	39237
OK720500020100_00	Spring Creek	Enterococcus	09/28/2010	39237
OK720500020130_00	Kiowa Creek	Enterococcus	09/28/2010	39233
OK720500020130_00	Kiowa Creek	Escherichia coli	09/28/2010	39233
OK720500020140_00	Beaver River (North Canadian)	Chloride	09/23/2014	60940
OK720500020140_00	Beaver River	Enterococcus	09/28/2010	39224
OK720500020250_00	Duck Pond Creek	Enterococcus	09/28/2010	39229
OK720500020250_00	Duck Pond Creek	Escherichia coli	09/28/2010	39229
OK720500020290_00	Beaver River (North Canadian)	TDS	09/23/2014	60941
OK720500020290_00	Beaver River	Escherichia coli	09/28/2010	39223
OK720500020290_00	Beaver River	Enterococcus	09/28/2010	39223
OK720500020290_00	Beaver River (North Canadian)	Chloride	09/23/2014	60941
OK720500020290_00	Beaver River (North Canadian)	Sulfates	09/23/2014	60941
OK720500020300_00	Clear Creek	Enterococcus	09/28/2010	39226
OK720500020450_00	Beaver River (North Canadian)	TDS	09/23/2014	60960
OK720500020450_00	Beaver River (North Canadian)	Chloride	09/23/2014	60960
OK720500020450_00	Beaver River	Enterococcus	09/28/2010	39222
OK720500020450_00	Beaver River (North Canadian)	Sulfates	09/23/2014	60960
OK720500020450_00	Beaver River	Escherichia coli	09/28/2010	39222
OK720500020500_00	Palo Duro Creek	TDS	09/23/2014	60980
OK720500020500_00	Palo Duro Creek	Sulfates	09/23/2014	60980
OK720500020500_00	Palo Duro Creek	Chloride	09/23/2014	60980
OK720500020500_00	Palo Duro Creek	Turbidity	09/28/2010	39236
OK720500020500_10	Palo Duro Creek	Escherichia coli	09/28/2010	39235
OK720500020500_10	Palo Duro Creek	Enterococcus	09/28/2010	39235
OK720500030010_00	Wolf Creek	Enterococcus	09/28/2010	39238
OK720510000190_00	Beaver River	Escherichia coli	09/28/2010	39221
OK720510000190_00	Beaver River	Enterococcus	09/28/2010	39221
OK720900000180_00	Cimarron River	Enterococcus	08/16/2011	40586

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Statewide Stream/River Probabilistic Monitoring Network for the State of Oklahoma from 2008-2011

Final Report

September 3, 2013

FY-2011 WPCP-Monitoring Section 106 Supplemental, Project 2 (CA# I-00F432-01) –"The Statewide Stream/River Probabilistic Monitoring Network—Final Report"

Oklahoma Water Resources Board
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Full Report available at, including appendices, available at:
http://www.owrb.ok.gov/studies/reports/reports_pdf/StatewideStreamProbMonitoringNetwork2008-2011.pdf

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EXECUTIVE SUMMARY

Several agencies conduct water quality monitoring in the State of Oklahoma. These agencies meet complementary monitoring objectives that support the management of Oklahoma's surface waters. The two primary components of the statewide monitoring program include (a) the Beneficial Use Monitoring Program, a long-term, fixed-station water quality monitoring network of the Oklahoma Water Resources Board (OWRB), and (b) Oklahoma Conservation Commission's (OCC) Small-Watershed Rotating Basin Monitoring Program, targeting water quality and ecological conditions in waters flowing from 11-digit hydrologic units. The state recently completed a water quality monitoring strategy that describes their existing programs in detail and the monitoring objectives that cannot be met with existing resources (OWRB, 2012d). These objectives include the ability to make statistically valid inferences about environmental conditions throughout the state, based on a probabilistic selection of sites. Meeting this objective will improve the ability to make condition estimates required in section 305(b) of the Clean Water Act. This requirement includes a description of the quality of all lotic waters, and the extent that all waters provide for the protection and propagation of aquatic life. The Environmental Protection Agency (EPA) recently released guidance establishing the "10 Required Elements of a State Water Monitoring and Assessment Program" (USEPA, 2005). Among other things, the document states, "a State monitoring program will likely integrate several monitoring designs (e.g., fixed station, intensive and screening-level monitoring, rotating basin, judgmental and probability design) to meet the full range of decision needs. The State monitoring design should include probability-based networks (at the watershed or state-level) that support statistically valid inferences about the condition of all State water types, over time. EPA expects the State to use the most efficient combination of monitoring designs to meet its objectives."

From 2008-2011, Oklahoma completed its 2nd and 3rd statewide surveys of lotic waters. In SY 2008-2009, Oklahoma participated in the National Rivers and Streams Assessment (NRSA) and sampled fifty-two (52) stations equally proportioned across orders 1-4 and 5+, completing its second comprehensive survey. In SY 2010-2011, Oklahoma completed its third statewide probabilistic study with a sample size of 48 perennial streams and rivers. The new study population included perennial streams and rivers throughout Oklahoma, and continued through the NRSA draw into the remaining oversample sites. By combining the two studies, Oklahoma can report on several temporal scales, and on two (2) size classes—smaller and larger waterbodies. Temporal scales include:

- 52 sites in the 2008-2009 sampling period (NRSA study)
- 48 sites in the 2010-2011 sampling period (OWRB study)
- 100 sites over the 2008-2011 sampling period (combined study).

The probability-based survey was designed to assist Oklahoma's water quality managers in several ways. Furthermore, in keeping with the environmental goals of the state as outlined in the comprehensive water plan, an effective long-term management strategy based on sound science and defensible data can be developed using this data. The four over-arching goals were:

1. Estimate the condition of multi-assemblage biological indicators for Oklahoma's waters through a statistically-valid approach.
2. Estimate the extent of stressors that may be associated with biological condition.
3. Evaluate the relationship between stressors and condition for use in various long and short term environmental management strategies.
4. Assess waters for inclusion in Oklahoma's Integrated Water Quality Report.

To assess ecological and human health, one-time collections were made for a variety of biological, chemical, and physical parameters (Table 1). When sites were verified as target, a sampling schedule was implemented. All target sites were visited once (in rare instances twice) during a late spring to late summer index period (June 1 – August 30), under base flow conditions. The studies measured the condition of three biotic assemblages—fish, macroinvertebrates, and sestonic and benthic algae—and a variety of stressors, including nutrients, conductivity, turbidity, habitat and sedimentation, and toxics. Fish data were analyzed using two indices of biological integrity (IBI) commonly used in Oklahoma bioassessment studies, as well as the IBI developed by the NRSA. Macroinvertebrate data were analyzed using a Benthic-IBI (B-IBI) developed for Oklahoma benthic communities (OCC, 2005a) and commonly used by the OCC and OWRB Water Quality Divisions (OCC, 2008; OWRB, 2009 and 2010a; ODEQ, 2012), as well as the IBI developed by the NRSA. To estimate condition of algal biomass, chlorophyll-a concentrations were compared to several screening levels.

Data outputs include: 1) relative extent of indicator and stressor condition, 2) relative risk of stressors to indicators, and 3) attributable risk of stressors to indicator extent. Data will also combined with other sources and included in the 2014 303(d) assessment of the Oklahoma Integrated Water Quality Report.

Highlights of the relative extent include:

- For both fish and macroinvertebrates, nearly 35% of stream miles were classified in poor condition over the 4-year study period, and the poor category increased to greater than 40% from 2008-2009 and decreased to less than 25% from 2010-2011.
- When considering stream size, a greater percentage of large river stream miles are in poor condition than small streams.
- A relative small percentage of miles (10%) are classified in poor condition for benthic algae. a greater percentage of large rivers (22%) than small streams (6%) are in poor condition.
- For sestonic algae, the percentage of streams in poor condition across study years varies from nearly 20% (2008-2009) to nearly 30% from 2010-2011, while the percent in good condition is approximately 55% for all study periods, and approximately 60% of large river miles are in poor condition as compared less than 10% of small river miles.
- Phosphorus extent in poor condition is generally 30-40%, regardless of study period or source of screening limit, while the percent of total miles in good condition ranges from 40-50%.
- Total nitrogen poor condition is from 25-40%.
- For conductivity, poor condition ranges from 10-22%, and is 40-55% in larger rivers, as opposed to 5% in small streams.
- For turbidity, poor condition is nearly 25%, and is 37% in larger rivers as opposed to 9% in smaller streams.
- Excess sedimentation from greater than 25% in streams to 35% in rivers, with poor condition ranging from 15% in 2008-2009 to greater than 50% from 2010-2011.

The current study allows for unique analysis between both study periods and waterbody size.

- For indicators, both fish and macroinvertebrates demonstrate a downward trend in poor condition between study periods, with only the fish having a significant downward trend.
- Conversely, both algal indicators show an upward trend, with only the benthic algae trend having significance.
- All but one of the total phosphorus stressors shows an upward trend between the two study periods, with only turbidity and sediment having a significant trend.

Attributable risk analyses provided the following results:

- Notably, for fish, elimination of sediment in large rivers could create a significant reduction of poor condition in fish as could reduction in conductivity.
- For macroinvertebrates, elimination of both total phosphorus and total nitrogen could have a significant effect on poor condition
- The elimination of phosphorus in small streams results in a nearly 14% lowering of the percent of miles in poor condition.
- As with fish, the elimination of conductivity is significant in some scenarios.
- Sestonic algal condition shows significant reduction in poor condition when turbidity, conductivity, and nutrients are eliminated.

Future study plans include the 2013-2014 National Rivers and Streams Assessment and a subsequent two-year statewide study beginning in 2015 (OWRB, 2013b). Substantive changes to the program will include

- Use of the NRSA protocols for large Wadeable and non-wadeable waterbodies.
- Use of NRSA habitat protocols for wadeable streams in concert with the current RBP habitat protocol.
- Inclusion of a second winter macroinvertebrate index period.
- Development of a periphyton taxonomic assemblage.
- Assessments at aggregated ecoregion scales used in the 2005-2007 assessment (OWRB, 2009)
- Change/trend analyses through the use of revisit sites.

INTRODUCTION

Several agencies conduct water quality monitoring in the State of Oklahoma. These agencies meet complementary monitoring objectives that support the management of Oklahoma's surface waters. The two primary components of the statewide monitoring program include (a) the Beneficial Use Monitoring Program, a long-term, fixed-station water quality monitoring network of the Oklahoma Water Resources Board (OWRB), and (b) Oklahoma Conservation Commission's (OCC) Small-Watershed Rotating Basin Monitoring Program, targeting water quality and ecological conditions in waters flowing from 11-digit hydrologic units. The state recently completed a water quality monitoring strategy that describes their existing programs in detail and the monitoring objectives that cannot be met with existing resources (OWRB, 2012d). These objectives include the ability to make statistically valid inferences about environmental conditions throughout the state, based on a probabilistic selection of sites. Meeting this objective will improve the ability to make condition estimates required in section 305(b) of the Clean Water Act. This requirement includes a description of the quality of all lotic waters, and the extent that all waters provide for the protection and propagation of aquatic life.

The Environmental Protection Agency (EPA) recently released guidance establishing the "10 Required Elements of a State Water Monitoring and Assessment Program" (USEPA, 2005). Among other things, the document states, "a State monitoring program will likely integrate several monitoring designs (e.g., fixed station, intensive and screening-level monitoring, rotating basin, judgmental and probability design) to meet the full range of decision needs. The State monitoring design should include probability-based networks (at the watershed or state-level) that support statistically valid inferences about the condition of all State water types, over time. EPA expects the State to use the most efficient combination of monitoring designs to meet its objectives." Until 2005, Oklahoma had several monitoring programs that met these requirements including the Beneficial Use Monitoring Program (BUMP) and the Rotating Basin Monitoring Program (RBMP) (OWRB, 20012d). Furthermore, the state has developed several programs to intensively monitor areas that have been listed on Oklahoma's 303(d) list of impaired waters (ODEQ, 2010).

In 2001, the state requested assistance with the design of a probabilistic approach to stream and river site selection from the U.S. Environmental Protection Agency, Office of Research and Development (ORD), Western Ecology Division (OWRB, 2006a). The study design was completed, but Oklahoma agencies remained unable to initiate further planning and implementation because of a lack of resources and commitment. In 2004, the OWRB and OCC took part in the National Wadeable Streams Assessment (WSA) (USEPA, 2006), which was fortuitous to future planning efforts for several reasons. First, the timing of the study coincided with discussions in the state about implementing a probabilistic design. Although money was a question, staff and management were worried staff time could not be spent performing all of the necessary reconnaissance work or sampling that is required in a random based monitoring program. Participating in the WSA instilled confidence that this type of monitoring could be accomplished without impeding the success of other programs. In fact, this facet of Oklahoma's monitoring program has only enhanced other programs. Second, because the state showed interest in implementing a random design, USEPA Region 6 began working with staff to find appropriate funding. The initial funding came through a Clean Water Act (CWA) Section 104(b)(3) grant. This money funded not only the initial year of study (2005), but an outcome was to investigate the feasibility of full implementation (OWRB, 2006a). The study investigated feasibility on two fronts—logistic and funding—finding that the logistic portion could be overcome through proper planning and coordination of staff. The funding, however, was not easily dealt with because of program priorities. In 2005, another funding opportunity came open when the USEPA announced further funding of the Regional Environmental Monitoring and Assessment Program (REMAP) (OWRB, 2009). Funding from the REMAP grant allowed the state to continue implementation of probabilistic monitoring for an additional two years through 2007. In that study, the OWRB completed a large-scale statewide assessment of perennial rivers and streams, as well as assessments for three large ecoregion groupings including the Western and High Plains, the Forested Plains and Flint Hills, and the Eastern Highlands. A significant limitation during that study was the inability to determine biological condition in large rivers.

In SY 2008-2009, Oklahoma participated in the National Rivers and Streams Assessment (NRSA) and sampled fifty-two (52) stations equally proportioned across orders 1-4 and 5+, completing its second comprehensive survey. In SY 2010-2011, Oklahoma completed its third statewide probabilistic study with a sample size of 48 perennial streams and rivers. The new study population included perennial streams and rivers throughout Oklahoma, and continued through the NRSA draw into the remaining oversample sites. By combining the two studies, Oklahoma can report on several temporal scales, and on two (2) size classes—smaller and larger waterbodies. Temporal scales include:

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- 48 sites in the 2010-2011 sampling period (OWRB study)
- 100 sites over the 2008-2011 sampling period (combined study)

The probability-based survey was designed to assist Oklahoma's water quality managers in several ways. Furthermore, in keeping with the environmental goals of the state as outlined in the Oklahoma Comprehensive Water Plan, an effective long-term management strategy based on sound science and defensible data can be developed using this data. The four over-arching goals were:

5. Estimate the condition of multi-assemblage biological indicators for Oklahoma's waters through a statistically-valid approach.
6. Estimate the extent of stressors that may be associated with biological condition.
7. Evaluate the relationship between stressors and condition for use in various long and short term environmental management strategies.
8. Assess waters for inclusion in Oklahoma's Integrated Water Quality Report.

The current assessment allows the state to make a statistically valid assessment of the condition of all of Oklahoma's streams/rivers, as required under Section 305(b) of the Clean Water Act (CWA) (ODEQ, 2012). The sample size allows for a statewide estimate of fish, macroinvertebrate, and algal condition on 3 temporal scales, as well as two size classes. Additionally, stressor extent is evaluated for a number of potential environmental stressors. Under the guidelines of the Integrated Listing Methodology (ODEQ, 2012), data allow for the assessment of the Fish & Wildlife Propagation beneficial use on more waters of the state. Although currently limited to certain beneficial uses and associated criteria, the support status of more waters can be determined. Future work may allow for more comprehensive 303(d) assessments so that the support status of probabilistic sites may be fully vetted. Finally, the survey provides information that will allow for better long- and short-range planning and resource allocation. A benefit of probabilistic design is that data results can be applied in a much broader context. For example, the relationship of condition can be associated with stressor extent through methodologies like relative risk analysis. The current study yields a wealth of biological, chemical, and physical data across a broad gradient of environmental conditions, supporting evaluation of these indicator relationships. Data can be used to calibrate existing biocriteria ranges, establish reference condition, and assist in nutrient criteria development. When integrated with fixed-station networks, it can assist in identifying local areas of concern. Also, although not accomplished by this report, landscape metrics can be associated with stressors and condition to develop predictive models. Probabilistic data can assist in efforts to regionalize environmental concerns. A bottom up approach to management identifies not only statewide issues but allows managers to identify local and regional concerns first, which often lead to issues farther down the watershed, and put resources where they are needed. The probabilistic methodology adds a valuable layer to that management approach.

METHODS

Study Design

An unequal probability random tessellation stratified (RTS) survey design (Stevens 1997, Stevens and Olsen 2004) was used to select stream sample sites across the state (USEPA, 2012 and Appendix D-1). The original design for the 4-year study emanated from Oklahoma's site file for the 2008-2009 NRSA. Unequal probability categories were defined separately for wadeable streams (1st to 4th order) and non-wadeable rivers (5th to 10th order). The terms wadeable and non-wadeable were used to designate Strahler order classes and did not imply that the streams were actually wadeable or non-wadeable, as defined by protocol. For the wadeable stream category, unequal selection probabilities were defined for 1st, 2nd, 3rd, and 4th order streams so that an equal number of sites would occur for each order. Then these unequal selection probabilities were adjusted by the Wadeable Streams Assessment (WSA) nine aggregated ecoregion categories so that an equal number of sites would occur in each WSA nine aggregated ecoregion category. For the non-wadeable river category, unequal selection probabilities were defined for 5th, 6th, 7th, and 8th + Strahler order Rivers so that the expected number of sites nationally would be 350, 275, 175, and 100 sites, respectively. Then these unequal selection probabilities were adjusted by WSA nine aggregated ecoregion categories so that an equal number of sites would occur in each WSA nine aggregated ecoregion category. Additionally, certain sites were selected as revisit sites from the 2004 Wadeable Streams, and included in the initial study design, weighted equally across the Strahler order categories mentioned above. In Oklahoma for the 4-year study period, the expected sample size was 51 for both wadeable streams and non-wadeable rivers. Oversample sites were provided for each Strahler order grouping. Site replacement was done within the two major Strahler order categories, 1st-4th and 5th+.

The study was spatially, temporally and hydrologically limited. Spatially, the study was limited to only streams defined as perennial in flow and excluded all sites within a reservoir flood pool. Temporal limitations were defined by biological index periods. The index period for the fish assemblage in Oklahoma was May 15th through September 15th with an optional extension to October 1st if the stream had not risen above summer seasonal base flow (OWRB, 2010b). The index habitat period for the macroinvertebrate assemblage in Oklahoma was June 1st through August 30th with collections completed in as short a time period as possible (OWRB, 2010c). Hydrologically, the study was limited by both an extended drought in SY-2011 as well as excessive rains and flooding in SY-2008. This impeded study progress in several ways. Sites originally verified as target sites were removed and an oversample site visited because of site changes between the period of reconnaissance and sampling. Additionally, several sites had partial collections because conditions changed between the period of macroinvertebrate/water sampling and fish sampling, or vice-versa. Furthermore, all of the smaller Strahler order category sites were ultimately evaluated. Because of accessibility issues related to drought in SY-11, only 48 sites were available for inclusion in the 2010-2011 study.

The study and subsequent site selection were designed to allow for three reporting periods and sub-categorization of "small" and "large" sites. The reporting periods include 2008-2011 (n = 100), 2008-2009 (n = 52), and 2010-2011 (n = 48). The 2008-2011 was sub-categorized to evaluate small (1st-4th Strahler Order) and large (5th+ Strahler Order) waterbodies. For each subcategory, an "n" of 50 was achieved. The oversample sites from the original NRSA sample design were used to provide sites for the 2010-2011 study.

Site Reconnaissance

Limited accessibility is the most serious problem with any probabilistic study. Unlike a fixed station design, study sites are typically not accessible by public roads and may only be accessed by foot. Compounding the problem is private ownership of land and the need to respect a landowner's choice of who may or may not access the property. Finally, probabilistic sites are selected from data frames that are not 100% accurate and may include non-candidate sites. Fortunately, proper planning and having an excess of available oversample sites can alleviate these issues. During the EPA's Wadeable Streams Assessment (USEPA, 2006) and Oklahoma's 1st Statewide Probabilistic Study (REMAP) (OWRB, 2009), the OWRB developed (with assistance from EPA documentation) and implemented a three-stage reconnaissance plan.

The first stage of planning was a "desk top" reconnaissance to determine if the proposed site was a candidate site. Candidate sites must meet certain criteria, including: 1) perennial flow, 2) not within normal pool elevation of a lake (oxbows or reservoirs), 3) not a wetland/swamp dominated river, 4) accessible by foot, and 5) landowner permission granted. Initially, each site was located using a variety of resources including topographic maps (OWRB, 2011), and other GIS mapping tools (NACEC, 1997). For each site, a site reconnaissance and tracking form (Figure 3) was created with the ultimate determination made to "accept" or "reject". At the outset, required hydrological characteristics were verified, and if not met, the site was rejected without further consideration. Then, a series of site maps containing at least two geographic scales were included with the site tracking form, and the necessary information to determine landowner was collected, including legal description of site and county. County assessor offices were the main source of landowner information. However, for some problem sites, staff used a variety of other resources including development of relationships with local realtors/developers or personal visits to nearby residences. Finally, a landowner permission packet was sent to each landowner, including a standardized permission letter (Figure 4), maps, a study brochure, and self addressed/stamped envelope for them to review and mail back to the OWRB either approving or disallowing access to their property. Based on landowner response, the site was accepted, accepted with restrictions/further instructions, or rejected. However, even when good landowner information was available, response to permission requests was occasionally slow for a variety of reasons, and therefore, a two stage process was developed to deal with slow responses. After two to three weeks, staff attempted contact by phone, and if unsuccessful, would send a reminder postcard. If still unsuccessful, in-person contact was attempted. If each of these attempts failed, the site was rejected.

Once site accessibility was verified (i.e., accepted) and a site was labeled as a study target site, a second planning stage was initiated. The planning objective was simply to collect thorough, well-documented information to assist field crews in locating and accessing the sampling reach. Because of color aerial satellite imagery, much of this information was gathered from the desktop. Notes were made and included in the tracking form of special considerations including hazards, best route of entry, time of travel, etc. Unfortunately, some sites required an on-site initial visit to complete the planning phase. Concerns did arise about the cost versus benefit of an extra site visit. However, over the course of three years, crews discovered that much of the information collected during the initial on-site planning visit was of great benefit on the actual day of sampling. Furthermore, because sites could be visited in batches and only one staff member was required, little expense was incurred.

The final planning stage involved all activities up to the first sampling visit, and involved compiling a complete site packet. The packet incorporated all information gathered in stages one and two, including a completed tracking form, landowner permission letter, and pertinent pictures and maps. In addition, all necessary field forms and labels were compiled and a checklist of equipment needed was completed.

Probabilistic Monitoring – Site Reconnaissance & Tracking Form

Stream Name: **Little Creek**

Site ID: **OKPB01-*027***

Lat/Long: **34^0 46' 50.8" / 99^0 23' 33.5"**

Site Type: **target** or oversample

Sample Status: **Accepted** or Rejected

If rejected, what is the reason:

[ ] Landowner Denied Permission
[ ] Site is Dry
[ ] Site is Impounded (part of a lake)
[ ] Site is Not Riverine Habitat (i.e., wetland, swamp, etc.)
[ ] Site is Not Physically Accessible
[ ] Other, Please Explain:

If rejected, what site replaces this one?:

Landowner Contact Information:

John Doe (Doe Land & Cattle Co.)
P.O. Box A
Your Town, OK 11111
(580)555-2222

Landowner Requests:

None. You can drive down to the site if you need to. (see attached permission letter)

Directions/Access to Site:

From Your Town, go west on SH 1 for 3.25 miles. The property is South of this point. Walk or drive across pasture to get to the X-site. (see attached maps)

Figure 1. Template site reconnaissance and tracking form used during study.

Date

John Doe Trust
C/O Jane Doe
Rt. 1 Box 1
Anywhere, OK 74534

Dear Sir/Madam:

The Oklahoma Water Resources Board (OWRB) is conducting a five-year project to perform environmental assessments on 210 to 220 randomly selected streams across Oklahoma. This effort involves on-site visits by OWRB personnel to a stream adjacent to your property to take samples of the water, fish and other aquatic life, and to gather other information concerning stream habitat such as measurements of stream width and depth and observations of stream bed and vegetation characteristics. The findings of the study are not intended for enforcement or regulatory purposes.

One of the sites that we would like to assess is a point on Your Creek located on your property in Section 1, Township 1 N, Range 1 E, in Your County, Oklahoma. We have enclosed a copy of a topographic map with the site identified by an "X" at the specific point on the stream to be sampled.

We are writing to ask for your permission to come onto your property to visit the site and conduct sampling activities. We realize that working on your property is a privilege and we will respect your landowner rights at all times. If you grant us permission, we will make no more than three visits to your land. The first visit will be for site reconnaissance and will occur sometime between March and April of 2006. A crew of one to two people will use your land to access the site and only gather information about site accessibility. In addition, one or two more visits will be made between May and October of 2006 for sampling and collection. We expect to have a crew of no more than four OWRB employees or its contractors coming on site during the sample collection visits.   Fish will only be collected during one of these visits.

Once a sampling date is set, OWRB employees will contact you, either by telephone or in person, before entering onto your land. After OWRB staff contact you, they will access the site either on foot or by vehicle and collect the necessary samples and data. Other than driving or walking across your land and walking in and around the stream site, we expect that staff will not leave any trace of their activity. Staff will honor any special instructions you have, such as accessing land only by foot, driving on pasture roads only, and opening and closing gates responsibly.

If you are agreeable to the activities described above, please complete and sign one copy of the "Landowner Permission" page and mail it back to us in the enclosed, stamped return envelope by Date. We have enclosed a duplicate of this page, which you may keep for your records. Please include contact information so that we may contact you by phone. Thank you for your consideration. If you have any questions about this request, please contact Jason Childress (Project Coordinator) or myself at 405-530-8800.
Sincerely,

Monty Porter
Water Quality Programs Streams/Rivers Monitoring Coordinator

Enclosures: Topo map
Duplicate original of letter
Return envelope

LANDOWNER PERMISSION

I grant permission to the employees of the Oklahoma Water Resources Board to come onto my property and conduct stream sampling activities as described in this letter.

_________ Permission granted

_________ Permission granted, subject to the following restrictions or instructions:

____

____

____

_________ Permission not granted

Landowner's Name (please print): ____

Landowner's Signature: ____

Landowner's Daytime Phone No.

Figure 2. Template landowner permission letter used during study.

Data Collection

To assess ecological and human health, one-time collections were made for a variety of biological, chemical, and physical parameters (Table 1). When sites were verified as target, a sampling schedule was implemented. All target sites were visited once (in rare instances twice) during a late spring to late summer index period (June 1 – August 30), under base flow conditions. Collections included a comprehensive water chemistry sample and measurement of *in situ* water quality parameters, including water temperature, dissolved oxygen, pH, specific conductance, and turbidity. Additionally, biological assemblages were collected, including fish, macroinvertebrates, phytoplankton, and benthic periphyton. A comprehensive suite of physical habitat, riparian and human health influence measurements were made, as well as a variety of site observational information. In the event that a full collection could not be completed during the index period, an additional collection may have occurred for fish after May 10 or before October 15. Depending on circumstances, information was collected during the same site visit. Additionally, a winter index period was added for macroinvertebrates and water chemistry during the 2010 and 2011 sample years.

Table 1. Water quality variables included in study.

SAMPLE VARIABLES		
***In situ* Variables**		
Dissolved Oxygen (D. O.)	% D. O. Saturation	pH
Water Temperature	Specific Conductance	
Field Variables		
Nephelometric Turbidity	Total Alkalinity	Total Hardness
Instantaneous Flow	Stage	
Laboratory Variables--General Chemistry		
Total Kjeldahl Nitrogen	Ortho-Phosphorus	Total Phosphorus
*Nitrate Nitrogen	*Nitrite Nitrogen	Ammonia Nitrogen
Total Dissolved Solids—gravimetric	Chlorides	Sulfates
Total Settleable Solids	Total Suspended Solids	
Laboratory Variables—Metals		
Arsenic	Cadmium	Chromium
Copper	Lead	Mercury
Nickel	Selenium	Silver
Zinc	Thallium	Calcium
Barium	Iron	Magnesium
Potassium	Sodium	
Biological Variables		
Fish	Macroinvertebrates	Sestonic Chlorophyll-a
Habitat--Long Form	Habitat--Short Form	Benthic Chlorophyll-a

From 2008-2009, all collections strictly followed the NRSA field operations manual (USEPA, 2009a) and Quality Assurance Project Plan (USEPA, 2009b). Sample analyses for these years were provided by the NRSA contract laboratories and data/assessments for all samples and assemblages were provided by the USEPA through either their National Aquatic Resource Survey (NARS) sharefile portal (https://nars.sharefile.com/) (USEPA, 2012) or personal communication from EPA staff (Mitchell, 2013).

For study years 2010-2011, data for water quality variables was collected in one of two ways (OWRB, 2010e). Several variables (pH, dissolved oxygen, water temperature, and specific conductance) were monitored *in-situ* utilizing a Hydrolab® Minisonde or YSI® multi-probe instrument or with single parameter probes. Regardless of instrumentation and in accordance with manufacturer's specifications and/or published SOP's, all instruments (except water temperature) were calibrated at least weekly and verified daily with appropriate standards. The measurement was taken at the deepest point of the channel at a depth of at least 0.1 meters and no greater than one-half of the total depth. The data were uploaded from the instrument and saved to a data recorder, transferred manually to a field log sheet, and manually entered into the OWRB Water Quality database. Data for all other variables were amassed from water quality samples collected at the station. Grab samples were collected by one of two methods—a grab or a composite grab. The most common method employed was a grab sample, which was used in streams with a single, well-mixed channel. The sample was collected at the deepest, fastest flowing portion of the horizontal transect by completely submerging the bottle, allowing it to fill to the top, and capping the bottle underwater. Composite grabs were collected in rivers with multiple channels and were aliquotted into sample bottles using a clean splitter-churn. Each sample included three bottles for general chemistry analyses (two ice preserved and one sulfuric acid preserved), one bottle for metals analysis (nitric acid preserved), and one bottle each for field chemistry analysis and sestonic chlorophyll-a (ice preserved and kept dark). For benthic chlorophyll-a, a sample was composited, placed on ice to be preserved, and kept dark. The Oklahoma Department of Environmental Quality-State Environmental Laboratory (ODEQ-SEL) in accordance with the ODEQ's Quality Management Plan (QTRACK No. 00-182) (ODEQ, 2007) analyzed samples for most parameters listed in Table 4. OWRB personnel measured nitrogen and ortho-phosphorus using Hach® colorimeter protocols, hardness and alkalinity using Hach® titration protocols, and nephelometric turbidity using a Hach® Portable turbidometer.

Samples for algal biomass were collected in both the sestonic and benthic zones of each waterbody and processed in accordance with standard procedures outlined (OWRB, 2006b). Sestonic, or water column, samples were processed from water collected during the general water quality collection. A benthic sample was processed from a reach-wide composite. Benthic filters were extracted using an alternate method, whereby filters are placed in a standard aliquot of ethanol (25 mL) and extracted at room temperature for at least 72 hours. All chlorophyll-a samples were analyzed by the ODEQ-SEL under the previously mentioned QMP (ODEQ, 2007). Additionally, a 50-mL sample was collected from both the water column and the benthic composites for subsequent sestonic and benthic algal ID analysis. Samples were preserved with 10% formalin, wrapped with foil, and placed at 4^{o}C.

Biological assemblages included aquatic macroinvertebrates and fish that were collected in accordance with Oklahoma's Rapid Bioassessment Protocols (RBP) (OWRB, 1999) and the OWRB's biological collection protocols (OWRB, 2010b and 2010d). Collections were completed over a 150-4000 meter reach depending on wetted width. Fish were collected during the summer index period using a pram or boat electrofishing unit depending on wadeability. The pram unit consisted of a Smith-Root 2.5 generator powered pulsator (GPP) attached to a 3000W Honda generator, and were operated with AC output current at 2-6 amps. The boat was equipped with a 9.0 GPP powered by a 9,000 Kohler generator, and operated at an AC output range of 7-20 amps. A battery powered Smith-Root backpack generator was used on rare occasions in sites with less than 1-meter average wetted width. Using two netters with ¼ inch mesh dipnets, collections were made in an upstream direction with target effort depending on reach length, site conditions, and protocol. When existing habitats existed could not be effectively electrofished, supplemental or stand-alone collections were made using 6' X 10-20' seines of ¼ inch mesh equipped with 8' brailles. Fish were processed at several intervals during each collection. The majority of fish were processed in the field, including enumeration and identification to species. Representative site voucher collections were made with a combination of appropriate photodocumentation and representative species vouchers. Fish that were not readily identifiable were fixed in 10% formalin and returned to the OWRB laboratory for identification and enumeration. Additionally, all representative voucher fish were fixed in a 10% formalin solution, subsequently preserved in 80% ethanol, and, along with photodocumentation, permanently housed in the OWRB fish collection library.

Aquatic macroinvertebrate collections were made during the summer and winter index period of each study year (OWRB, 2010d). Each sampling event included a variety of samples as defined in the OWRB's macroinvertebrate collection protocols. At wadeable sites, staff collected samples from available targeted habitats, including streamside vegetation, woody debris, and rocky riffles. The streamside vegetation and woody debris collections were semi-qualitative samples collected over flowing portions of the reach for total collection times of three and five minutes, respectively. The streamside sample was collected using a 500-micron D-frame net to agitate various types of fine structure sample including fine roots, algae, and emergent and overhanging vegetation. Likewise, the wood sample was collected using a 500-micron D-frame net to agitate, scrape, and brush wood of any size in various states of decay. Additionally, wood that could be removed from the stream was scanned for additional organisms outside the 5-minute sampling time. The riffle collection was a quantitative sample compositing three kicks representing slow, medium and fast velocity rocky riffles within the reach. Each sub-sample was collected by fully kicking one square meter into a 500-micron Zo seine. At non-wadeable sites, a large river collection protocol was used, with the sub-protocol determined by the dominant reach substrate, either fine or coarse substrate. In each protocol, the dominant substrate is sampled at each transect, and within each sub-reach, the dominant targeted habitat is sampled. The primary difference between the sub-protocols was the treatment of samples. The coarse protocol requires that all samples are processed and composited in a final collection type called large coarse-composite (LRC-Comp). While at the large river fine (LRF) sites, collections were kept separate and processed as LRF-THab (targeted habitat) and LRF-Sub (substrate) samples. At all LR sites, a riffle composite is collected, if available. All samples were field post-processed in a 500-micron sieve bucket to remove large material and silt in an effort to reduce sample size to fill no more than ¾ of a quart sample jar. Additionally, all nets and buckets were thoroughly scanned to ensure that no organisms were lost. After processing, each sample type was preserved independently in quart wide mouth polypropylene jars with ethanol and interior and exterior labels were added. Prior to taxonomic analysis, all samples were laboratory processed by study personnel to obtain a representative 100 and 300-count subsample, with a large/rare scan (OWRB, 2010d). After sorting, the subsamples were sent to the contract laboratory of record for identification and enumeration. Taxonomic data for each sample were grouped and metrics calculated by the contract laboratory. In general, most organisms were identified to genera with midges identified to tribe. The two contract laboratories used in the study were Environmental Services and Consulting (Lynchburg, VA) and Rhithron Associates (Missoula, MT).

Additionally, a detailed habitat assessment was made targeting in-stream substrate, habitat, width and depth, bank and riparian measurements, and human disturbance characteristics. The collections included both Oklahoma's semi-qualitative RBP habitat protocols (OWRB, 2010c), and the NRSA semi-quantitative habitat protocols (USEPA, 2009a). To date, the USEPA assessments have not been processed.

Discharge and/or stage data were also collected at each station (OWRB, 2005). Flow was determined through several methods including direct measurement of instantaneous discharge using a flow meter, interpolation of flow from a stage/discharge rating curve developed by the United States Geological Survey (USGS) or the OWRB, or through estimation of discharge using a float test (OWRB, 2004).

For a more detailed discussion of sampling procedures, please contact the OWRB/Water Quality Programs Division at (405) 530-8800 for copy of the BUMP Standard Operating Procedures (SOP) or visit the OWRB website at http://www.owrb.state.ok.us/quality/monitoring/monitoring.php#SOPs.

Analytical Methods

Condition classes for biotic assemblages and stressors were assigned by either the USEPA or OWRB, depending on study year. All data collected from 2008-2009 were processed and assessed by USEPA staff, excluding wadeable fish and chlorophyll-a data. All data collected from 2010-2011, as well as chlorophyll-a data from 2008-2009, were processed and assessed by OWRB staff.

Analysis of Fish Biological Condition.

Fish data were analyzed using two indices of biological integrity (IBI) commonly used in Oklahoma bioassessment studies, as well as the IBI developed by the NRSA. State biocriteria methods are outlined in Oklahoma's Use Support Assessment Protocols (OWRB, 20012b). In addition, an IBI commonly used by the OCC's Water Quality Division was used to provide an alternative bioassessment (OCC, 2005a and 2008; ODEQ, 2012). All metrics and IBI calculations were made using the OWRB's "Fish Assessment Workbook", an automated calculator OWRB staff built in Microsoft Excel (OWRB, 2012a). The NRSA condition assessments were taken from the tabular fish condition file on the USEPA's NARS sharefile site (USEPA, 2012). The multi-metric index (MMI) developed by the NRSA is described in Appendix D-3.

Oklahoma's biocriteria methodology (OKFIBI) uses a common set of metrics throughout the state (Table 2). Each metric is scored a 5, 3, or 1 depending on the calculated value, and scores are summed to reach two subcategory totals for sample composition and fish condition (OWRB, 2012b). The two subcategories are then summed for a final IBI score. The score is compared to ecoregion biocriteria to determine support status. For example, if the final IBI score is between 25-34, the status for sites in the Ouachita Mountain Ecoregion is deemed undetermined. Likewise, for scores greater than 34 and less than 25, the status is supported or not supported, respectively.

The OCCFIBI uses "a modified version of Karr's Index of Biotic Integrity (IBI) as adapted from Plafkin et al., 1989" (OCC, 2008; ODEQ, 2012). The metrics as well as the scoring system are in Table 3. Metric scores are calculated in two ways for both the test site and composite reference metric values of high-quality streams in the ecoregion (OCC 2005). Species richness values (total, sensitive benthic, sunfish, and intolerant) are compared to composite reference value to obtain a "percent of reference". A score of 5, 3, or 1 is then given the site depending on the percentages outlined in Table 6, while the reference composite is given a default score of 5. Proportional metrics (% individuals as tolerant, insectivorous cyprinids, and lithophilic spawners) are scored by comparing the base metric score for both the test site and the reference composite to the percentile ranges given in Table 3. After all metrics are scored, total scores are calculated for the test and composite reference sites. Finally, the site final score is compared to the composite reference final score and a percent of reference is obtained. The percent of reference is compared to the percentages in Table 4 and an integrity classification is assigned with scores falling between assessment ranges classified in the closest scoring group.

Fish taxonomic results for each site were analyzed to produce a raw score for the OKFIBI and a percent of reference score for the OCCFIBI. Additionally, when available, the condition class determined from the NRSA analysis was included in the evaluation. A preponderance of these assessments were used to then assign a final condition class of good, fair, and poor for each of the 3 study periods, as well as large and small streams.

Table 2. Index of biological integrity used to calculate scores for Oklahoma's biocriteria. Referenced figures may be found in OAC 785:15: Appendix C (OWRB, 2012b).

Metric	Value	Scoring 5	Scoring 3	Scoring 1	Score
Total # of species		fig 1	fig 1	fig 1	
Shannon's Diversity based upon numbers		>2.50	2.49-1.50	<1.50	
# of sunfish species		>3	2 to 3	<2	
# of species comprising 75% of sample		>5	3 to 4	<3	
Number of intolerant species		fig 2	fig 2	fig 2	
Percentage of tolerant species		fig 3	fig 3	fig 3	
TOTAL SCORE FOR SAMPLE COMPOSITION					0
Percentage of lithophils		>36	18 to 36	<18	
Percentage of DELT anomalies		<0.1	0.1-1.3	>1.3	
Total individuals		>200	75 to 200	<75	
TOTAL SCORE FOR FISH CONDITION					0
TOTAL SCORE					0

Table 3. Metrics and scoring criteria used in the calculation of OCC's index of biological integrity (OCC, 2008; ODEQ, 2012).

Metrics	5	3	1
Number of species	>67%	33-67%	<33%
Number of sensitive benthic species	>67%	33-67%	<33%
Number of sunfish species	>67%	33-67%	<33%
Number of intolerant species	>67%	33-67%	<33%
Proportion tolerant individuals	<10%	10-25%	>25%
Proportion insectivorous cyprinid individuals	>45%	20-45%	<20%
Proportion individuals as lithophilic spawners	>36%	18-36%	<18%

Table 4. Integrity classification scores and descriptions used with OCC's index of biological integrity (OCC, 2008; ODEQ, 2012).

% Comparison to the Reference Score	Integrity Class	Characteristics
>97%	Excellent	Comparable to pristine conditions, exceptional species assemblage
80 - 87%	Good	Decreased species richness, especially intolerant species
67 - 73%	Fair	Intolerant and sensitive species rare or absent
47 - 57%	Poor	Top carnivores and many expected species absent or rare; omnivores and tolerant species dominant
26 - 37%	Very Poor	Few species and individuals present; tolerant species dominant; diseased fish frequent

Analysis of Macroinvertebrate Biological Condition

Macroinvertebrate data were analyzed using a Benthic-IBI (B-IBI) developed for Oklahoma benthic communities (OCC, 2005a) and commonly used by the OCC and OWRB Water Quality Division (OCC, 2008; OWRB, 2009 and 2010a; ODEQ, 2012), as well as the IBI developed by the NRSA. The metrics and scoring criteria (Table 5) are taken from the original "Rapid Bioassessment Protocols for Use in Streams and Rivers" (Plafkin et al., 1989) with slight modifications to the EPT/Total and Shannon-Weaver tolerance metrics (OCC, 2008). Metrics were calculated by OWRB contractors and IBI calculations were made using the OWRB's "B-IBI Assessment Workbook v. 3.0", an automated calculator built by OWRB Staff in Microsoft Excel (OWRB, 2012a). The NRSA condition assessments were taken from the tabular macroinvertebrate condition file on the USEPA's NARS sharefile site (USEPA, 2012). The IBI developed by the NRSA is described in Appendix D-4.

Calculation of the B-IBI is similar to the fish OCC-IBI discussed previously. Metric scores are calculated in two ways for both the test site and the composite reference metric values of high-quality streams in each ecoregion (OCC, 2008). Species richness (total and EPT) and modified HBI values are compared to the composite reference value to obtain a "percent of reference". A score of 6, 4, 2 or 0 is then given the site depending on the percentages outlined in Table 5, while the reference composite is given a default score of 6. Proportional metrics (% dominant 2 taxa and %EPT of total) as well as the Shannon-Weaver Diversity Index are scored by comparing the base metric score for both the test site and the reference composite to the percentile ranges given in Table 5. After all metrics are scored, total scores are calculated for the test and composite reference sites. The site final score is then compared to the composite reference final score and a percent of reference is obtained. The percent of reference is compared to the percentages in Table 6 and an integrity classification is assigned with scores falling between assessment ranges classified in the closest scoring group.

Macroinvertebrate taxonomic results for each site were analyzed to produce a percent of reference score for the OKBIBI. From these scores, biological integrity classifications were assigned. For NRSA sites, the condition classification assigned by the NRSA was used because the samples were processed as 500 individual sub-samples. Instead of rarifying samples to a 100 individual sub-sample to allow use in Oklahoma's B-IBI, it was decided that using NRSA condition assignments was more defensible and efficacious for final data analyses. Furthermore, the NRSA IBI was used to assign condition classes for large rivers that were too large to be processed through Oklahoma B-IBI. These samples were compared to national reference metrics and screening limits developed for the NRSA.

Table 5. Metrics and scoring criteria used in the calculation of the B-IBI (OCC, 2008; ODEQ, 2012).

B-IBI Metrics	6	4	2	0
Taxa Richness	>80%	60-80%	40-60%	<40%
Modified HBI	>85%	70-85%	50-70%	<50%
EPT/Total	>30%	20-30%	10-20%	<10%
EPT Taxa	>90%	80-90%	70-80%	<70%
% Dominant 2 Taxa	<20%	20-30%	30-40%	>40%
Shannon-Weaver Diversity Index	>3.5	2.5-3.5	1.5-2.5	<1.5

Table 6. Integrity classification scores and descriptions used with the B-IBI (OCC, 2008; ODEQ 2012).

% Comparison to the Reference Score	Biological Condition	Characteristics
>83%	Non-impaired	Comparable to the best situation expected in that ecoregion; balanced trophic and community structure for stream size
54 - 79%	Slightly Impaired	Community structure and species richness less than expected; percent contribution of tolerant forms increased and loss of some intolerant species
21 - 50%	Moderately Impaired	Fewer species due to loss of most intolerant forms; reduction in EPT index
<17%	Severely Impaired	Few species present; may have high densities of 1 or 2 taxa

Analysis of Algal Biomass

Algae are important in aquatic ecology acting as an important primary producer in aquatic food webs providing a food source for a wide variety of fish and macroinvertebrates. Furthermore, algae are indispensable producers of oxygen for aquatic organisms. However, algal blooms are also an important indicator of water quality perturbance and nutrient productivity. Introduction of nutrients to waterbodies occurs through a number of sources including runoff from urban and agricultural areas, wastewater treatment discharges, and a variety of other sources. As nutrient concentrations increase, uptake by primary producers increases and leads to algal blooms, as well as an increased standing crop. As eutrophication happens, aquatic life and human health beneficial uses can become impaired, as well as the aesthetic and recreational appeal of waterbodies being drastically reduced.

In order to quantify eutrophication, algal biomass was measured in both the benthic (i.e., periphyton) and water column (i.e., sestonic) areas of all study streams. Various measures exist to determine algal biomass including chlorophyll-a and ash free dry mass. For this study, chlorophyll-a concentrations were calculated because the Oklahoma Water Quality Standards (OWQS) (OWRB, 2012c) provides screening levels for both periphyton and sestonic chlorophyll-a.

To estimate condition of algal biomass, chlorophyll-a concentrations were compared to several screening levels. For benthic chlorophyll-a, several screening levels were used. First, Oklahoma's Use Support Assessment Protocol (USAP) (OWRB, 2012b) provides a screening level for periphyton chlorophyll-a in the aesthetic beneficial use. A value of 100 mg/m^2 represents a nuisance level for periphyton algae, and was used as the cut-point for poor-fair condition. Second, the OWRB has collected periphyton chlorophyll-a across the state for several programs throughout the years. To provide an alternate screening level, the 25^{th} percentile of all OWRB benthic data were calculated at 45.7 mg/m^2, which was used as the cut-point for fair-good condition. Similarly, several screening levels were established for sestonic chlorophyll-a. The OWQS- includes a standard for sensitive water supplies of 10 mg/m^3 (SesChl10) of chlorophyll-a (OWRB, 2012c), which was set as the fair-good cut-point for condition assessment. Additionally, to establish the cut-point for the poor-fair condition, the distribution of all OWRB sestonic chlorophyll-a data were considered as a screening level (OWRB, 2009). The mean of all concentrations calculates at 19 mg/m^3 and was set as the poor-fair cut-point for sestonic chlorophyll-a analyses.

Stressor Methodology
During each visit a number of physical and water quality parameters were collected. These included nutrients, *in situ* measurements, metals, and salinity. Each of these may have some effect on the conditions analyzed in the previous results section. This effect can lead to decreased biological integrity (e.g., the effect of nutrients on fish condition) or may be responsible for the increase in a negative condition (e.g., the effect of total phosphorus on algal biomass concentration). Quantifying stressor extent is important for a variety of reasons including development and refinement of water quality screening levels and criteria, location of hotspots, and understanding the cause and effect relationship between stressors and indicators of biological integrity and human health concerns. Stressor descriptions are given in Table 7. The final stressor methodology for chemistry is detailed in Appendix D-5.

Table 7. Descriptions of stressors affecting biological condition.

Stressor Description	Stressor (code)	Source
Total nitrogen SL from the National Rivers and Streams Assessment (NRSA)	TN_NRSA	USEPA
Total nitrogen SL from USEPA's regional nutrient criteria development	TN_ECO	USEPA
Total phosphorus SL from the NRSA	TP_NRSA	USEPA
Total phosphorus SL from USEPA's regional nutrient criteria development	TP_ECO	USEPA
Conductivity SL from the NRSA	Cond_NRSA	USEPA
Conductivity SL based on regional OWRB historical data	Cond_ECO	USEPA
Turbidity SL from USEPA's regional nutrient criteria development	Turb_ECO	USEPA
Sediment based on sediment metric from NRSA and combination of %loose bed material, % embeddedness, and % deep pools from Oklahoma’s Rapid Bioassessment	Excess_Sed	USEPA/ OWRB
Instream cover assessment from the NRSA	InstCov	USEPA
Riparian vegetation cover from the NRSA	RipVegCov	USEPA
Metals chronic criteria for fish/wildlife propagation beneficial use housed in App. G, Table 2 of OWQS	XxChronic	OWRB

Nutrient stressors include measures of total phosphorus and total nitrogen (nitrate + nitrite + total Kjeldahl nitrogen). For comparison, two sources were used to determine screening levels for each parameter giving a variety of nutrient levels based upon stream characteristics and/or regional variation (Table 7). First, regional nutrient criteria were developed based on Omernik Level III ecoregions. The lower ender thresholds represent the 25th percentile of data from a variety of sources (USEPA, 2000a, 2000b, 2001a, 2001b; OWRB, 2009), while the upper end thresholds were developed from OCC regional monitoring data (OCC, 2005b, 2006a, 2006b, 2007, 2008). Second, the NRSA developed nutrient thresholds at a Level II ecoregion scale as described in Appendix D-5. The nutrient cut-point thresholds are in Table 8.

Additionally, both salinity and turbidity were evaluated as water quality stressors and are described in Table 7. Conductivity was used as a surrogate for salinity and several sources including both the USEPA regional criteria development (USEPA, 2000a, 2000b, 2001a, 2001b) and regional screening limits developed for Oklahoma’s original statewide assessment (OWRB, 2009). Turbidity screening levels were only based on the USEPA regional criteria development reports. The cut-points for conductivity and turbidity are provided in Table 9.

Numerical criteria for metals are housed in Appendix G, Table 2 of the OWQS (OWRB, 2012c). The OWQS provides criteria for a number of metals but only cadmium, copper, lead, selenium, and zinc are considered in this study. These analytes have both ecological and human health significance and appear more regularly in Oklahoma's Integrated Report as causes of impairment (ODEQ, 2012c). No other metals showed any level of potential impairment in the study. To facilitate analysis, dissolved metals concentrations were compared to dissolved chronic criterion.

Sedimentation was analyzed as a potential stressor to biological condition by using a combination of the state rule and NRSA condition assessments. For sites monitored as part of the NRSA, the sedimentation assessments were taken from the tabular habitat condition file on the USEPA's NARS sharefile site (USEPA, 2012), and the NARS methodology is described in Appendix D-2. For sites monitored in 2010-2011, metrics were calculated based on results from Oklahoma's Rapid Bioassessment Protocol (OWRB, 1999, 2010c, 2012b). The assessment consists of a variety of measures including flow, stream width and depth, substrates, embeddedness, habitat classification (i.e., pool, run, and riffle), fish cover, presence of point bars, erosion, and riparian structure. Metrics are scored based on predetermined ranges and a total score is obtained. Oklahoma's USAP (OWRB, 2012b) contains a protocol for determining sedimentation based upon loose bottom substrates (%LBS), embeddedness (%Emb), and presence of deep pools (%DP). Screening levels for sedimentation metrics are determined by comparing final site scores to a percent of reference condition. The reference condition is derived from the habitat scores for ecoregion based high quality sites developed by the OCC (2005a). For the most part, all high quality sites in an Omernik Level III ecoregion were used to develop reference condition. However, in certain ecoregions, some Omernik Level IV ecoregions were broken out from the whole. Omernik Level IV ecoregions used are the Broken Red Plains and Cross Timbers Transition of the Central Great Plains and the Arbuckle Uplift of the Cross Timbers. Additionally, the reference condition used is separated by aquatic life tier, and sites used to determine reference condition are required to be within 2 Strahler orders of the test stream. Finally, the cut-points for poor-fair-good are based on pre-determined percent of reference for each metric, with 2 or 3 metrics deemed to be fair or poor, respectively. Additionally, both instream cover and riparian vegetative cover were also evaluated as part of the NRSA. These stressors are included in the analysis of NRSA sites.

Statistical Methods

The processing of data for relative extent, relative risk, and attributable risk values were accomplished with R-statistical Software (R Foundation, 2013) using R-scripts developed for the NARS program (Van Sickle, 2012). Adjusted site weights were calculated and provided by the USEPA (Kincaid, 2013). Other analyses were performed using Minitab statistical software (Minitab, 2013). References to ecoregions throughout this document refer to those published by USEPA (Omernik, 1987; Woods et al., 2005).

Table 8. Ecoregion screening levels used as good/fair/poor cut-points for nutrient stressor analyses (Appendix D-5) (OWRB, 2009).

Ecoregion	TN _NRSA Poor_Fair (mg/L)	TN _NRSA Fair_Good (mg/L)	TN _ECO Poor_Fair (mg/L)	TN _ECO Fair_Good (mg/L)	TP _NRSA Poor_Fair (mg/L)	TP _NRSA Fair_Good (mg/L)	TP _ECO Poor_Fair (mg/L)	TP _ECO Fair_Good (mg/L)
Southwest Tablelands	1.570	0.698	1.050	0.450	0.095	0.052	0.055	0.025
Central Great Plains	1.570	0.698	1.600	0.840	0.095	0.052	0.130	0.090
Cross Timbers	1.570	0.698	0.900	0.680	0.095	0.052	0.110	0.038
Arbuckle Uplift	1.570	0.698	1.500	0.680	0.095	0.052	0.050	0.038
South Central Plains	2.078	1.092	0.750	0.385	0.108	0.056	0.070	0.050
Ouachita Mountains	0.535	0.296	0.450	0.300	0.024	0.018	0.025	0.010
Arkansas Valley	0.535	0.296	0.683	0.270	0.024	0.018	0.060	0.043
Ozark Highlands	0.535	0.296	1.500	0.379	0.024	0.018	0.070	0.007
Central Irregular Plains	3.210	1.750	1.150	0.712	0.338	0.165	0.160	0.093

Table 9. Ecoregion screening levels used as good/fair/poor cut-points for conductivity and turbidity stressor analyses. (Appendix D-5) (OWRB, 2009)

Ecoregion	Cond _NRSA Poor_Fair (uS/cm2)	Cond _NRSA Fair_Good (uS/cm2)	Cond _ECO Poor_Fair (uS/cm2)	Cond _ECO Fair_Good (uS/cm2)	Turb _ECO Poor_Fair (NTU)	Turb _ECO Fair_Good (NTU)
Southwest Tablelands	2000	1000	2300	1000	20	12
Central Great Plains	2000	1000	2925	1000	45	22
Cross Timbers	2000	1000	1000	550	40	4
Arbuckle Uplift	2000	1000	1000	500	7	4
South Central Plains	1000	500	500	180	20	10
Ouachita Mountains	1000	500	500	65	10	5
Arkansas Valley	1000	500	500	160	20	7
Ozark Highlands	1000	500	500	285	5	2
Central Irregular Plains	2000	1000	1000	450	40	16

RESULTS—EXTENT AND CONDITION ESTIMATES

Site Evaluation

For the study, a total of 177 randomly chosen sites were evaluated as candidate target sites, representing a total of 36,003 stream miles. Stream miles determined to be target, or sampleable, varied per study period (Figures 3-5). The total sampleable stream miles assessed per study period breaks down as follows:

- 21,019 miles for study period 2008-2011
- 25,466 miles for study period 2008-2009
- 15,572 miles for study period 2010-2011

The dramatic variation between the initial and subsequent 2-year study periods is obviously the number of rejected sites during the evaluation process. Although access denials increased between the study periods, the percentage of dry stream miles evaluated increased by over 300% from 3,094 to 10,605 evaluated miles, accounting for the dramatic decrease in assessed stream miles from reporting period to reporting period. Inaccessible and impounded miles were nearly equivalent across study periods. Furthermore, Figures 6 and 7 show a breakdown between large and small streams. Notably, small stream miles outnumbered large stream miles nearly 3.5:1, the majority of accessibility issues occurred in small streams.

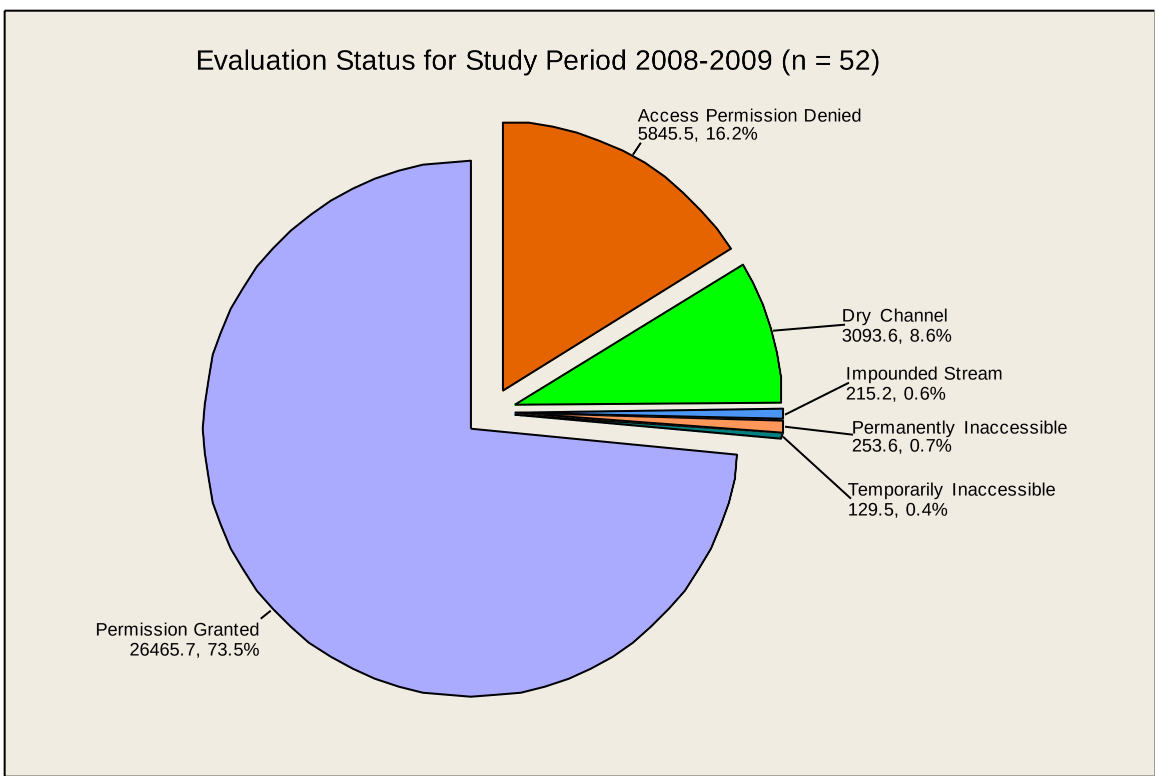

Figure 3. Site evaluation status for study period 2008-2009 (total miles = 36,003).

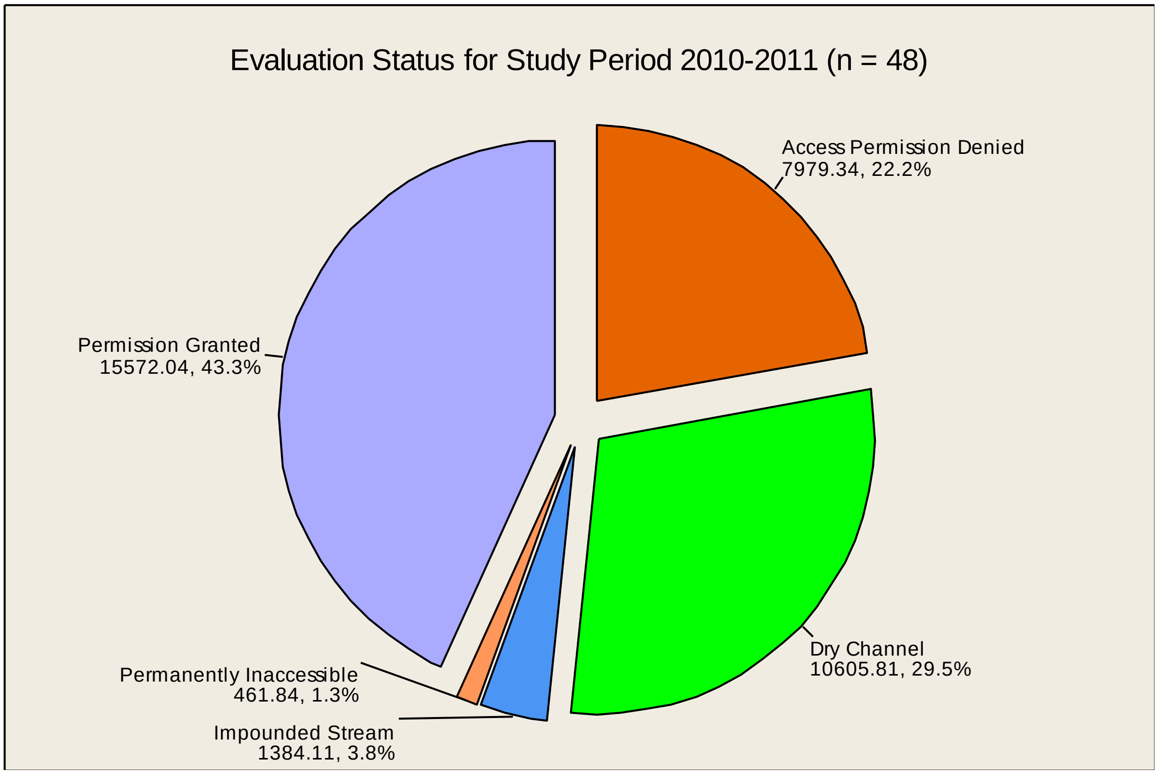

Figure 4. Site evaluation status for study period 2010-2011 (total miles = 36,003).

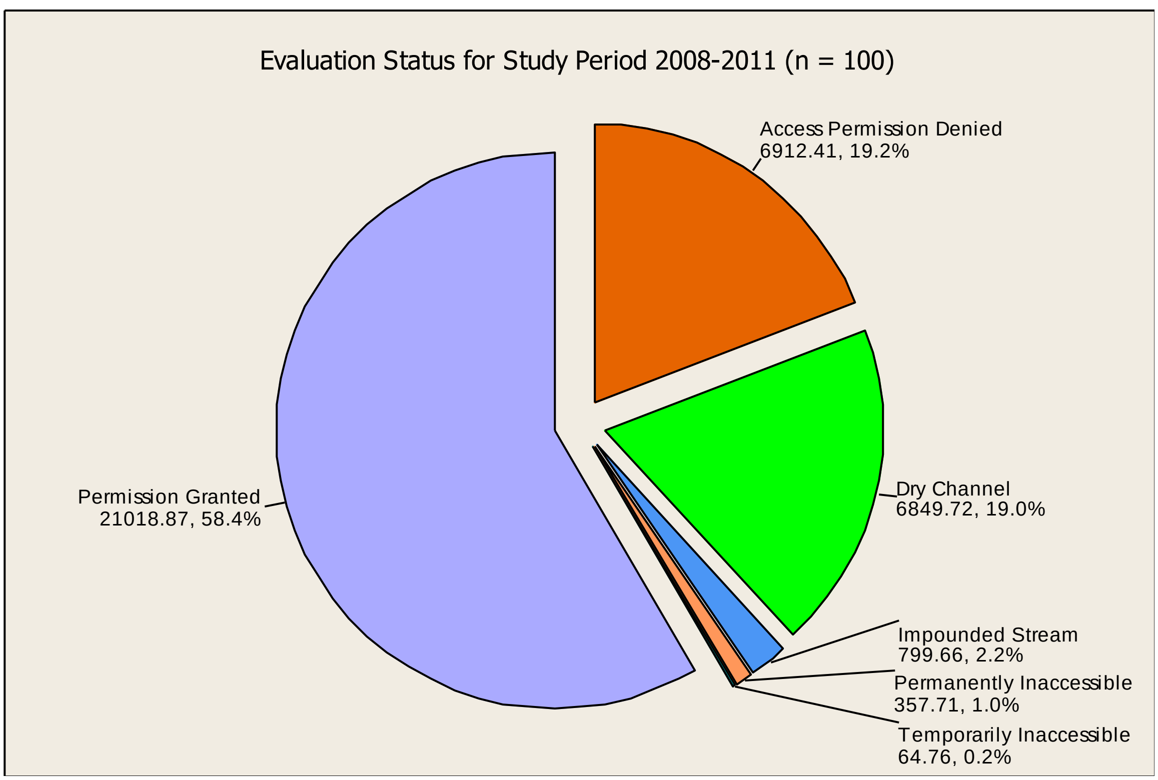

Figure 5. Site evaluation status for study period 2008-2011 (total miles = 36,003).

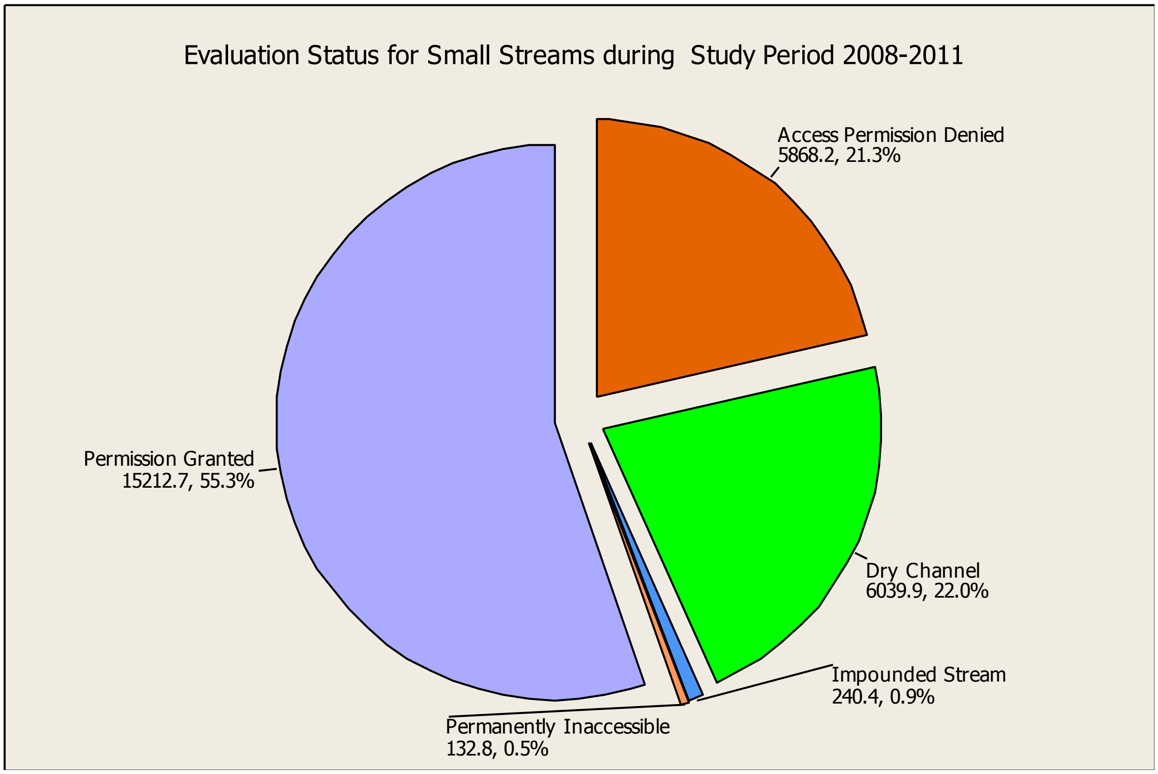

Figure 6. Site evaluation status for small streams from 2008-2011 (total miles = 27,494).

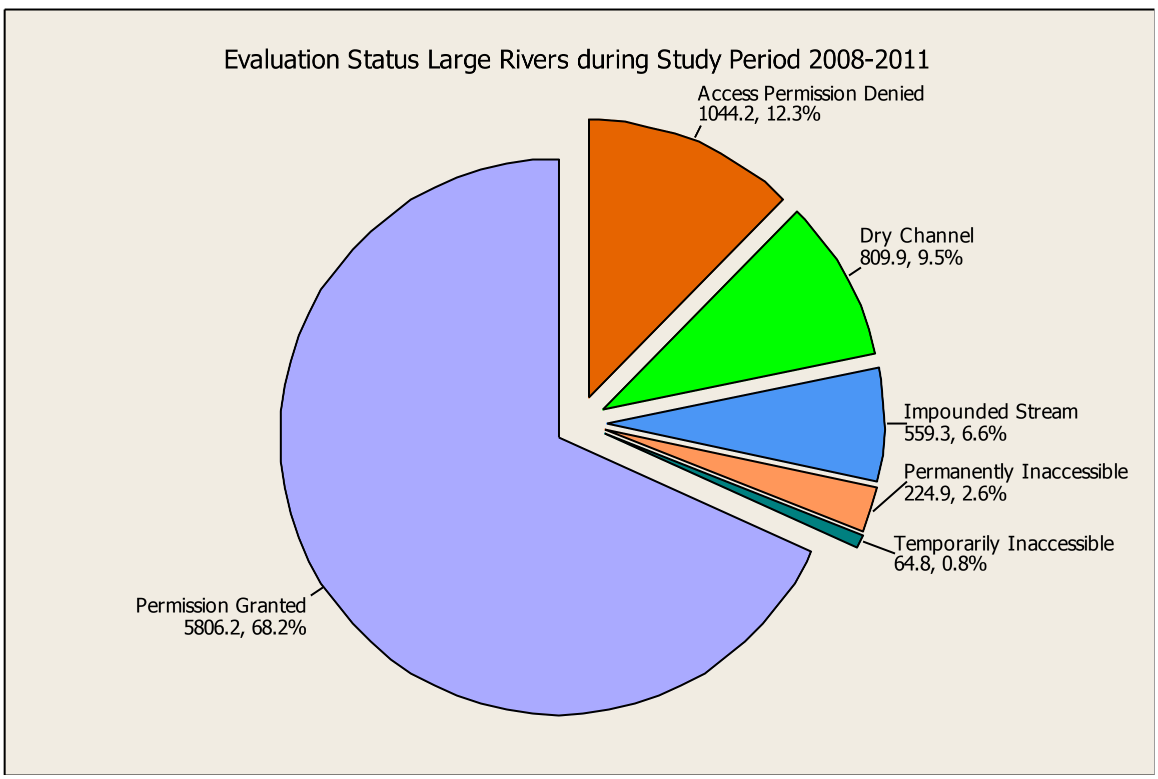

Figure 7. Site evaluation status for large streams from 2008-2011 (total miles = 8,509).

Biological Indicator Condition Extent

Statewide condition extent estimates were made for benthic macroinvertebrates, fish, phytoplankton (sestonic algae) at two levels, and periphyton. For each biotic assemblage, the indicator condition was categorized as good, fair, or poor based on methodology described in the "Methods" section, and percentages for each condition category are based on "percent of total miles". In Figures 8-9, good/fair/poor estimates are grouped for each indicator by both study periods and size. In Figures10-14, study periods and size classifications for each indicator are also depicted ungrouped with standard error for each classification.

For both fish and macroinvertebrates, nearly 35% of stream miles were classified in poor condition over the 4-year study period. Also, for both indicators, the poor category increased to greater than 40% from 2008-2009 and decreased to less than 25% from 2010-2011. A notable difference between the indicators is the higher percentage of stream miles in fair condition as opposed to good condition. For all study periods, the percentages of stream miles in fair condition are greater than 40% for macroinvertebrates and less than 10% for fish. When considering stream size, a greater percentage of large river stream miles are in poor condition than small streams. For benthic macroinvertebrates, nearly 65% of large river miles are in poor condition, with approximately 20% in fair or good condition. Conversely, in small streams, approximately 25% of stream miles are poor or good condition, while nearly 50% are in fair condition. Likewise, for fish, nearly 50% of large river miles are in poor condition and nearly 35% in good condition. In small streams, greater than 75% of miles are in good condition, while approximately 30% are in poor condition.

A relative small percentage of miles are classified in poor condition for benthic algae. For the 4-year study period, approximately 10% of miles are in poor condition, with greater than 75% of miles in good condition. In 2008-2009, the percentage in poor condition decreases to less than 5%, while the percentage in good condition increases to nearly 85%. However, in 2010-2011, the percentage in poor condition nearly doubles to greater than 20%, with greater than 65% in good condition. As with fish and macroinvertebrates, a greater percentage of large rivers (22%) than small streams (6%) are in poor condition.

For phytoplankton, or sestonic algae, the percentage of streams in poor condition across study years varies from nearly 20% (2008-2009) to nearly 30% from 2010-2011. The percent in good condition is approximately 55% for all study periods. Conversely, stream size varies significantly for poor and good condition. Approximately 60% of large river miles are in poor condition as compared less than 10% of small river miles. Conversely, less than 20% of large river miles are in good condition for sestonic algae, while nearly 70% of small river miles are considered in good condition.

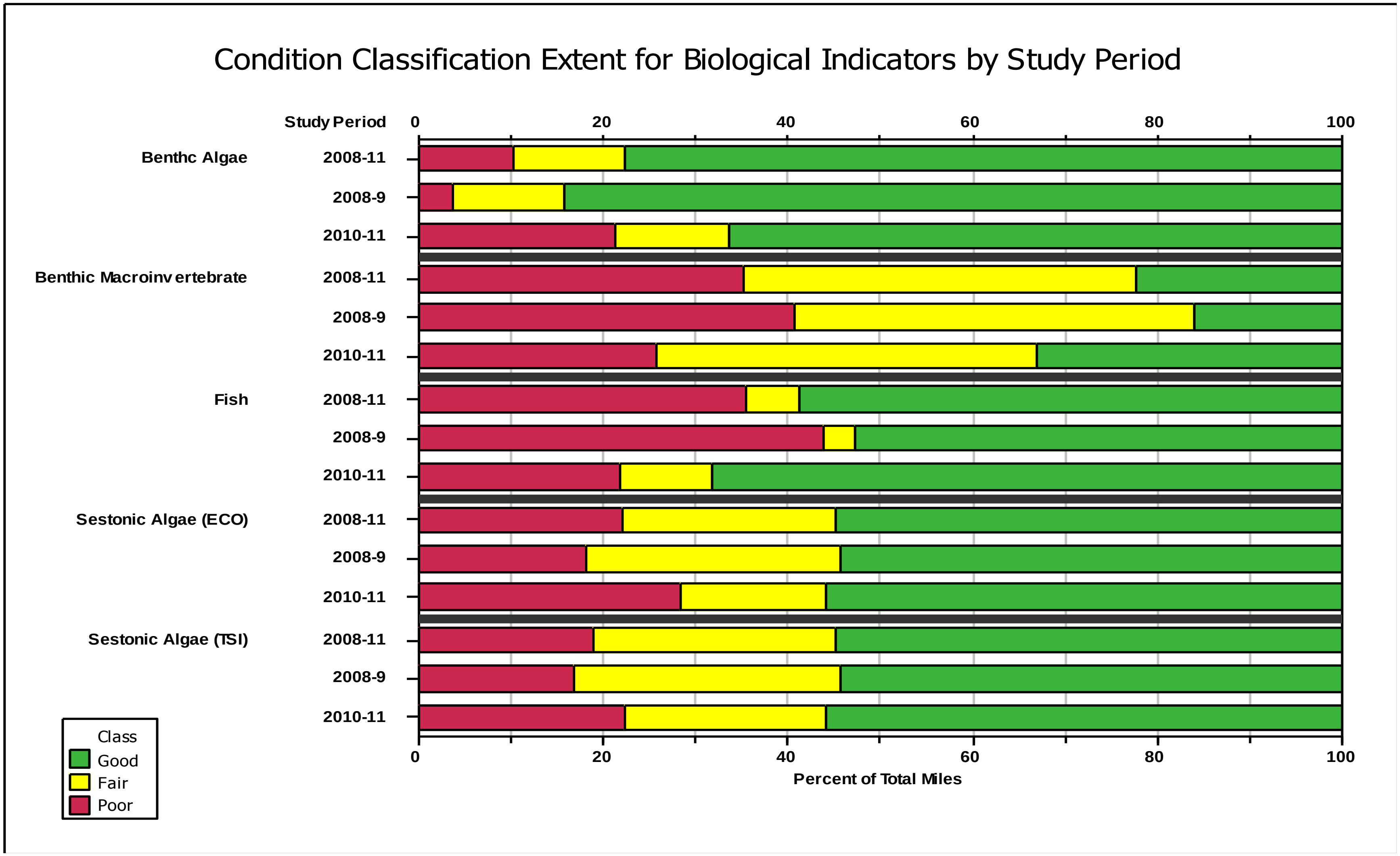

Figure 8. Stacked percentages of condition class estimates for study periods grouped by biological indicators.

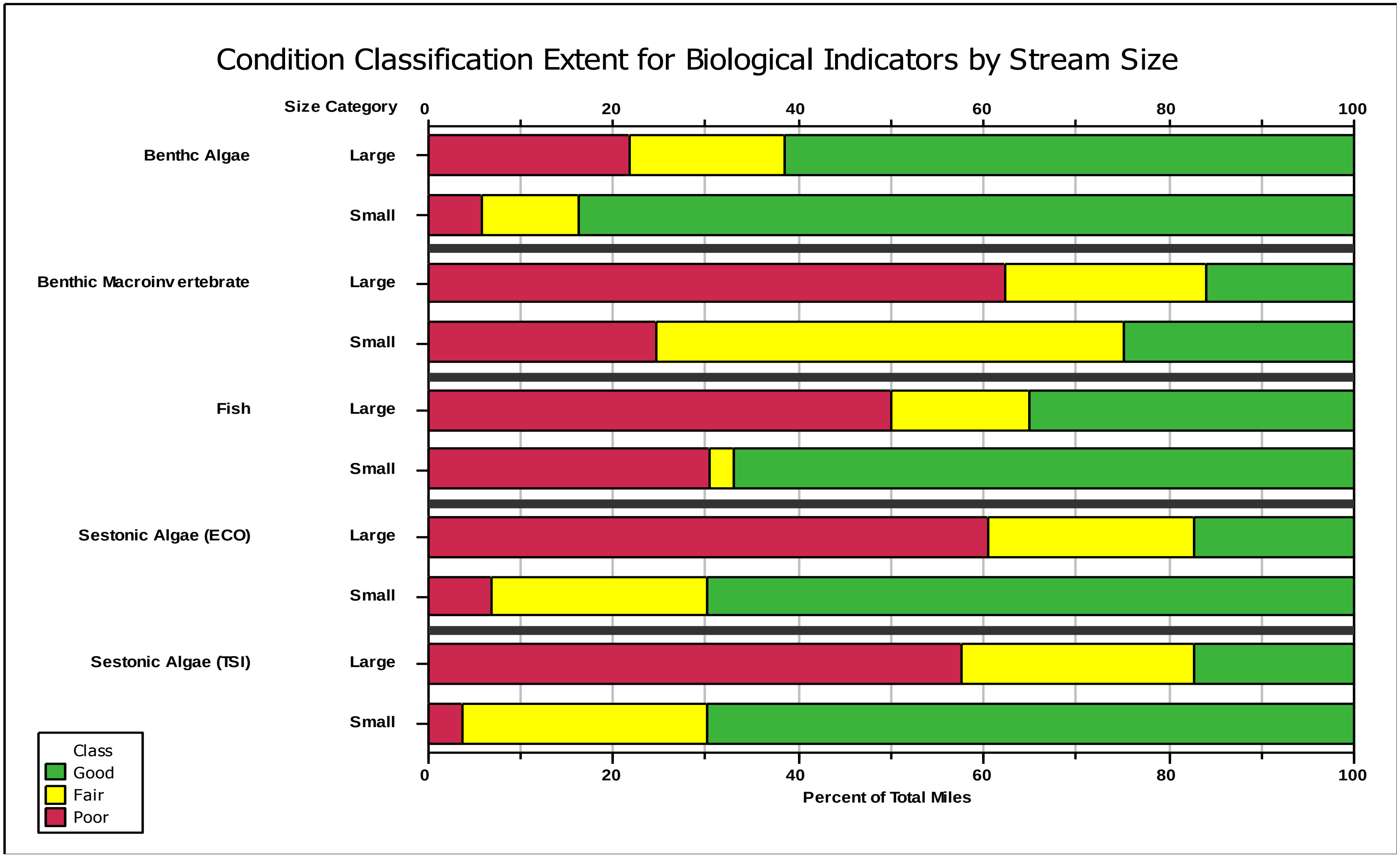

Figure 9. Stacked percentages of condition class estimates for stream size grouped by biological indicators.

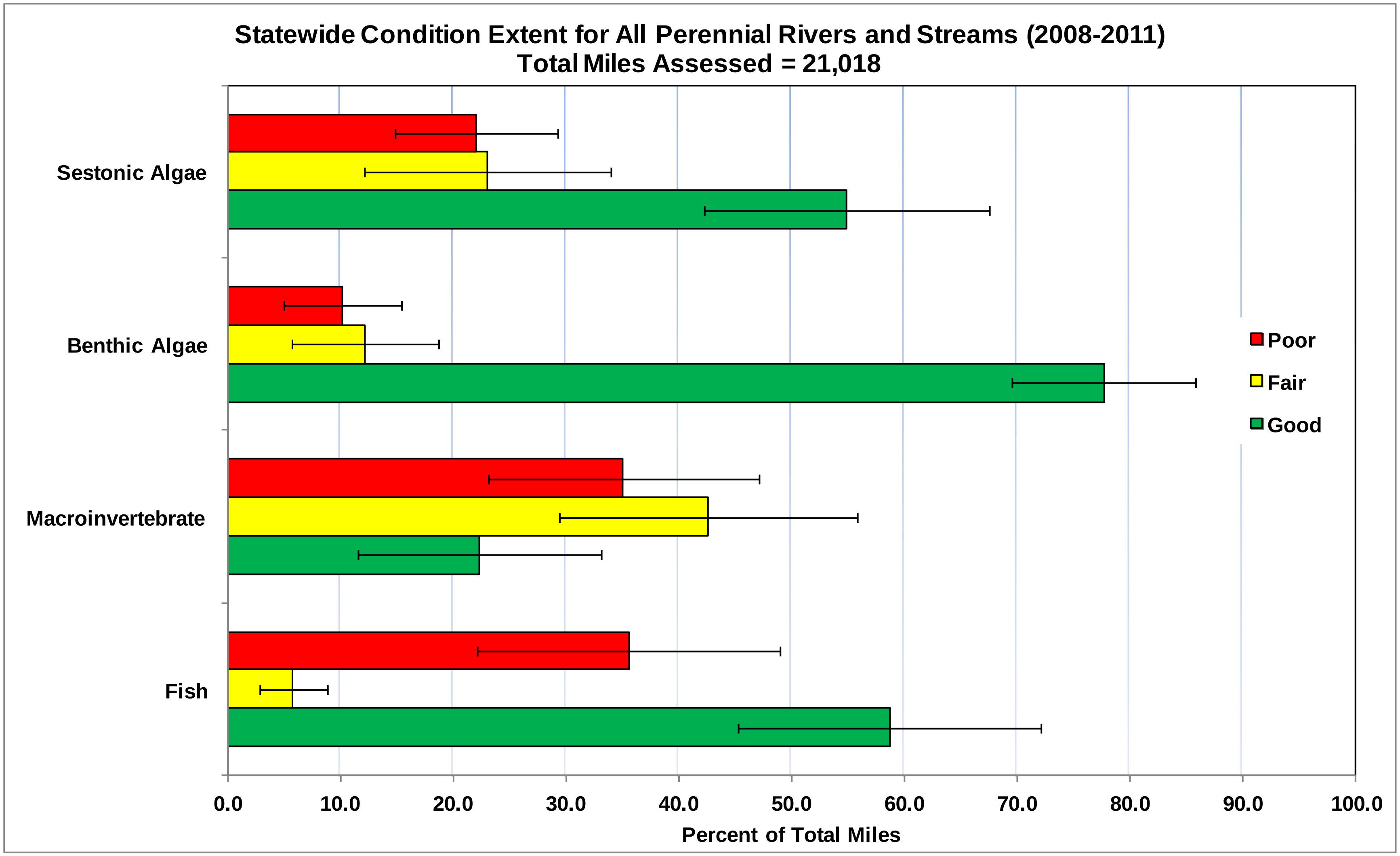

Figure 10. Biological indicator condition extent estimated statewide from 2008-2011. Upper and lower bounds represent a 95% confidence interval.

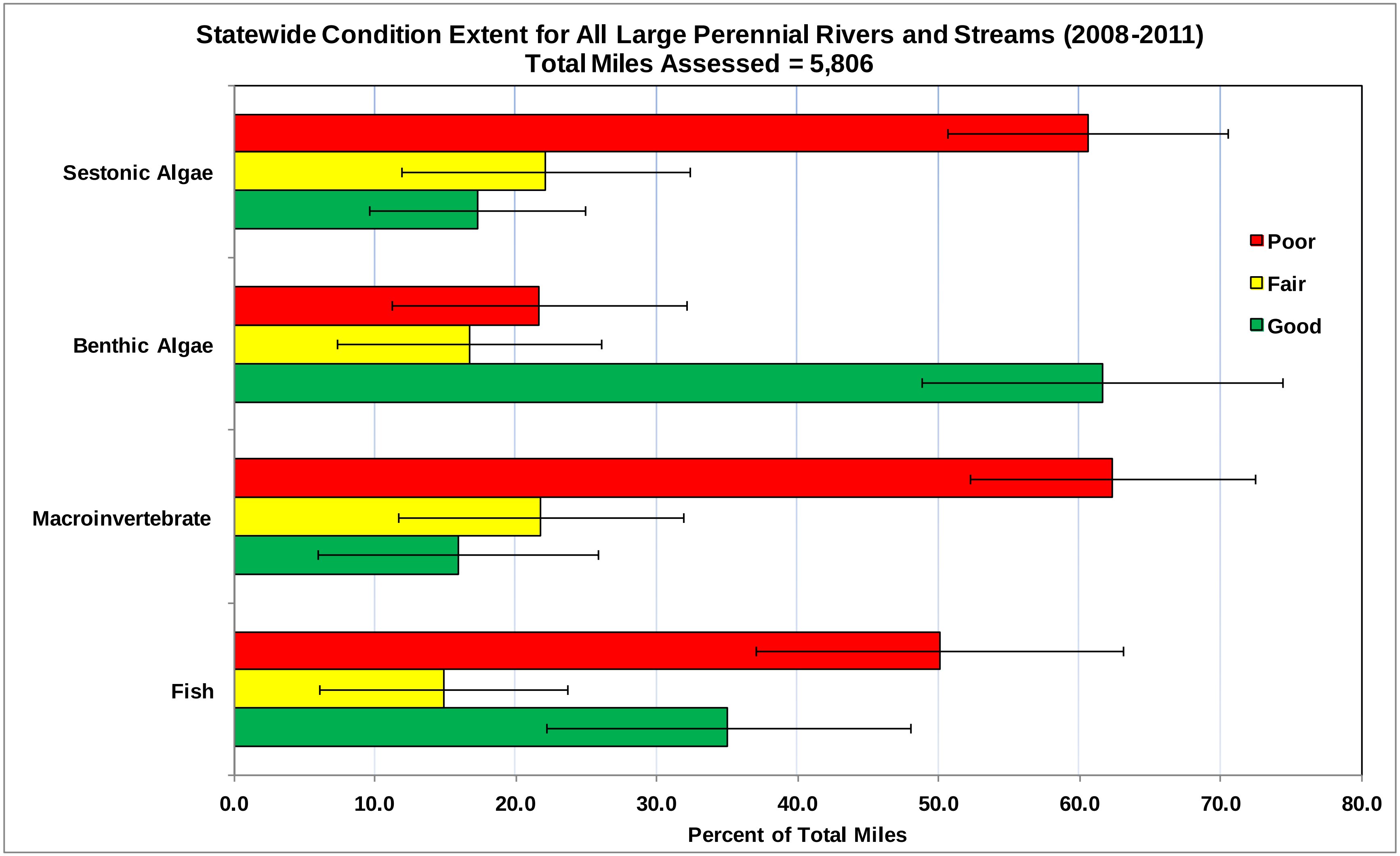

Figure 11. Biological indicator condition extent estimated statewide for larger streams and rivers (Strahler Order > 4) from 2008-2011. Upper and lower bounds represent a 95% confidence interval.

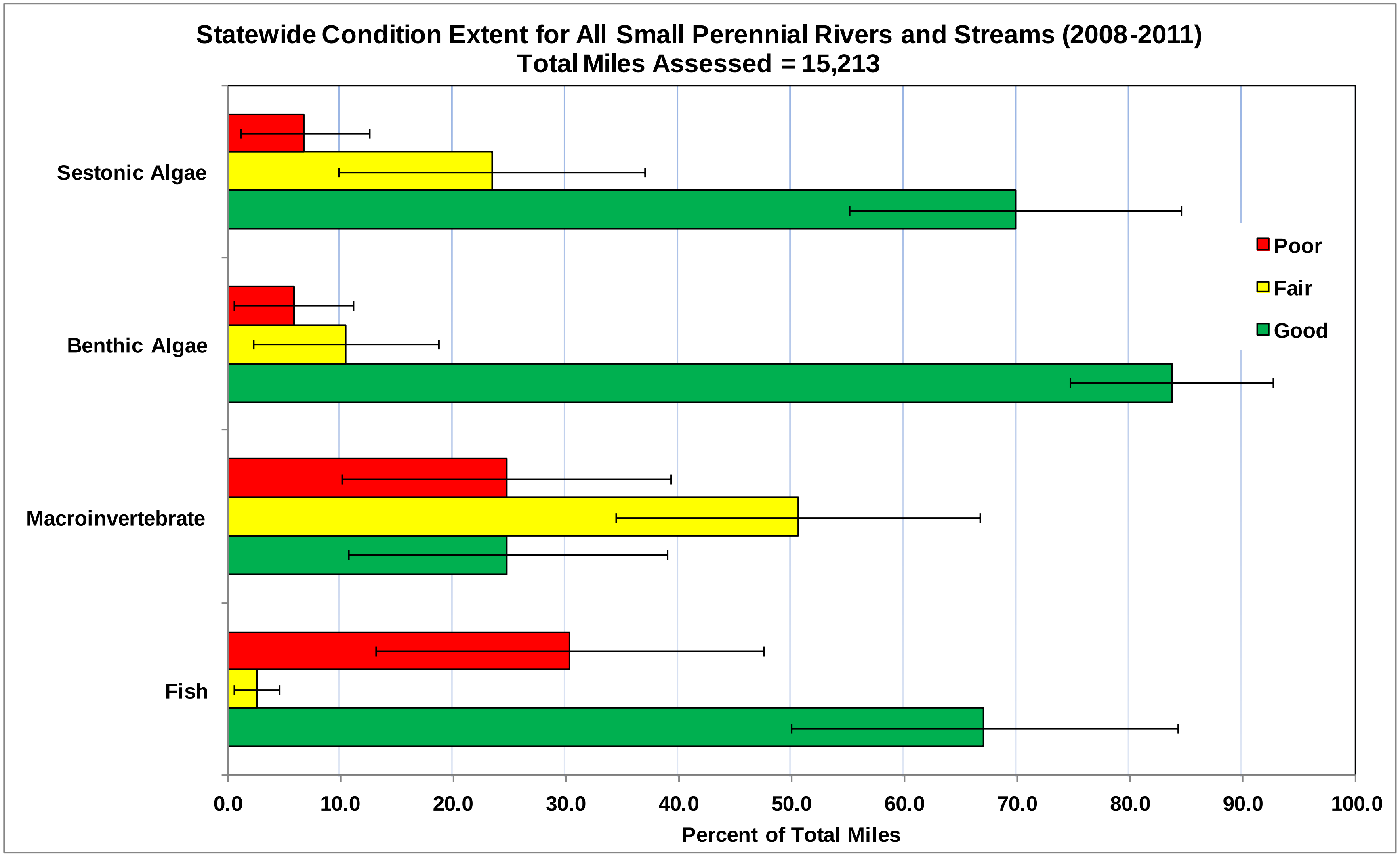

Figure 12. Biological indicator condition extent estimated statewide for smaller streams and rivers (Strahler Order < 5) from 2008-2011. Upper and lower bounds represent a 95% confidence interval.

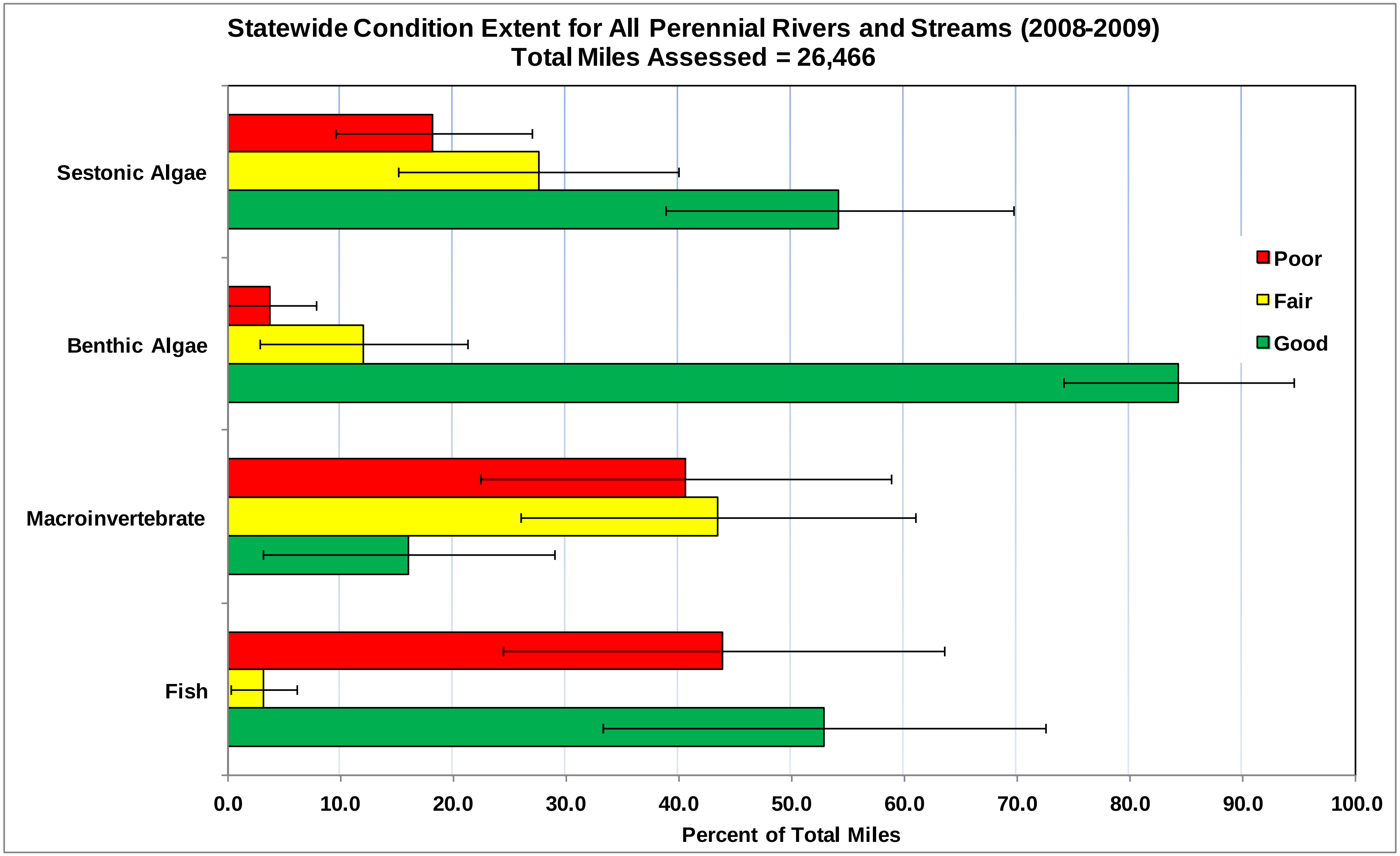

Figure 13. Biological indicator condition extent estimated statewide from 2008-2009. Upper and lower bounds represent a 95% confidence interval.

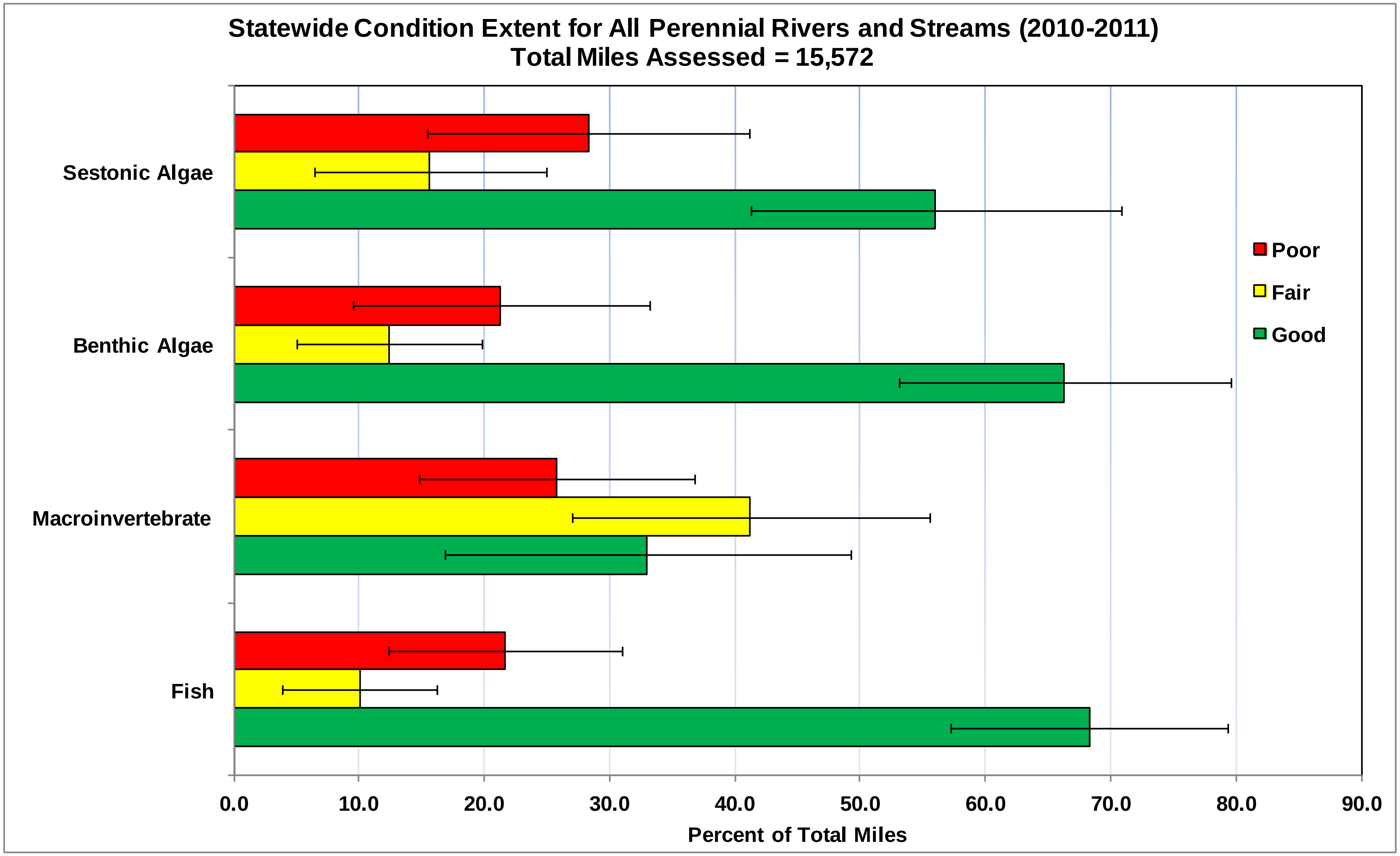

Figure 14. Biological indicator condition extent estimated statewide from 2010-2011. Upper and lower bounds represent a 95% confidence interval.

Stressor Extent

Statewide condition extent estimates were made for total nitrogen, conductivity, turbidity, metal toxicity, sedimentation, and instream and vegetative cover. Estimates employed a variety of NRSA and Omernick level III ecoregion screening levels. For each stressor except metals toxicity, the condition was categorized as good, fair, or poor based on methodology described in the “Methods” section, and percentages for each condition category are based on “percent of total miles”.

In Figures 15-16, good/fair/poor estimates for nutrients, conductivity and turbidity are grouped for each stressor by both study periods and size. In Figures 17-21, study periods and size classifications for each indicator are also depicted ungrouped with standard error for each classification. Phosphorus extent in poor condition is generally 30-40%, regardless of study period or source of screening limit, while the percent of total miles in good condition ranges from 40-50%. Generally, poor condition is lower for the NRSA screening limits, but is not significantly different. When considering stream size, large streams (approximately 75%) have a significantly higher percentage of miles in poor condition than small streams (10-25%). For total nitrogen, the difference between the sources of screening limits and study periods are more dramatic, but still not significantly different. For the NRSA screening limit, the percent of miles in poor condition ranges from less than 15% from 2008-2009, as opposed to nearly 25% from 2010-2011. For all study periods, good condition is greater than 50%. A similar pattern is evident with the ecoregion screening limit, with poor condition ranging from 25% (2008-2009) to nearly 40% from 2010-2011, and good condition ranging from nearly 50% to as low as approximately 25% during the same periods. Unlike total phosphorus, stream size is not significant when considering percent of miles in poor condition, with large ranging from 30-40% and small from 10-25%. However, the percent in good condition is significantly different with size. Large rivers range from 15-25%, with small streams ranging from 55-65% in good condition. Conductivity is generally not significantly different between study periods or sources of screening limits. Poor condition ranges from 10-20% from 2008-2009, and increases approximately 22% in the 2010-2011 study period. For the NRSA values, good condition is ranges from 60-65%, regardless of period. However, when using ecoregion screening limits, good condition during the 2010-2011 period shows a significant decrease to approximately 25%, while the 2008-2009 period is approximately 55%. As with nutrients, condition is significantly different when comparing streams to rivers. The percent of river miles in poor condition ranges from 40-55%, while streams are approximately 5% for both screening limits. Conversely, the percent of stream miles in good condition ranges from 55% to 80%, as opposed to 15-30% in large rivers. For turbidity, period is not significant, with poor condition ranging from 10-30%, and good at 30-35% for both periods. However, the percent of river miles (37%) in poor condition is significantly different from small streams (9%). The percentage in good condition is much closer with nearly 30% in large rivers and 35% in small streams.

The extent of various habitat stressors is depicted in Figure 22. Instream and riparian vegetative cover are considered for only the 2008-2009 period, with no delineation between waterbody sizes. Poor condition ranges from 5% for riparian to 15% for instream cover. Good condition is 65-70% for both. Excess sedimentation is not significantly different when considering waterbody size. Poor condition ranges from greater than 25% in streams to 35% in rivers, with the percent in good condition at nearly 35% in both. Study period is significantly different, with poor condition ranging from 15% (2008-2009) to greater than 50% from 2010-2011. Good condition is not significantly different, but does range from less than 20% (2010-2011) to greater than 50% in 2008-2009 study period. The percent of miles in fair condition is ranges from 30-40%, regardless of study period.

Finally, the extent of metals toxicity is represented in Figure 23. Miles in poor condition generally ranges from 10-15%. While no stressors are significantly different, more miles appear to be affected by selenium than any other metal.

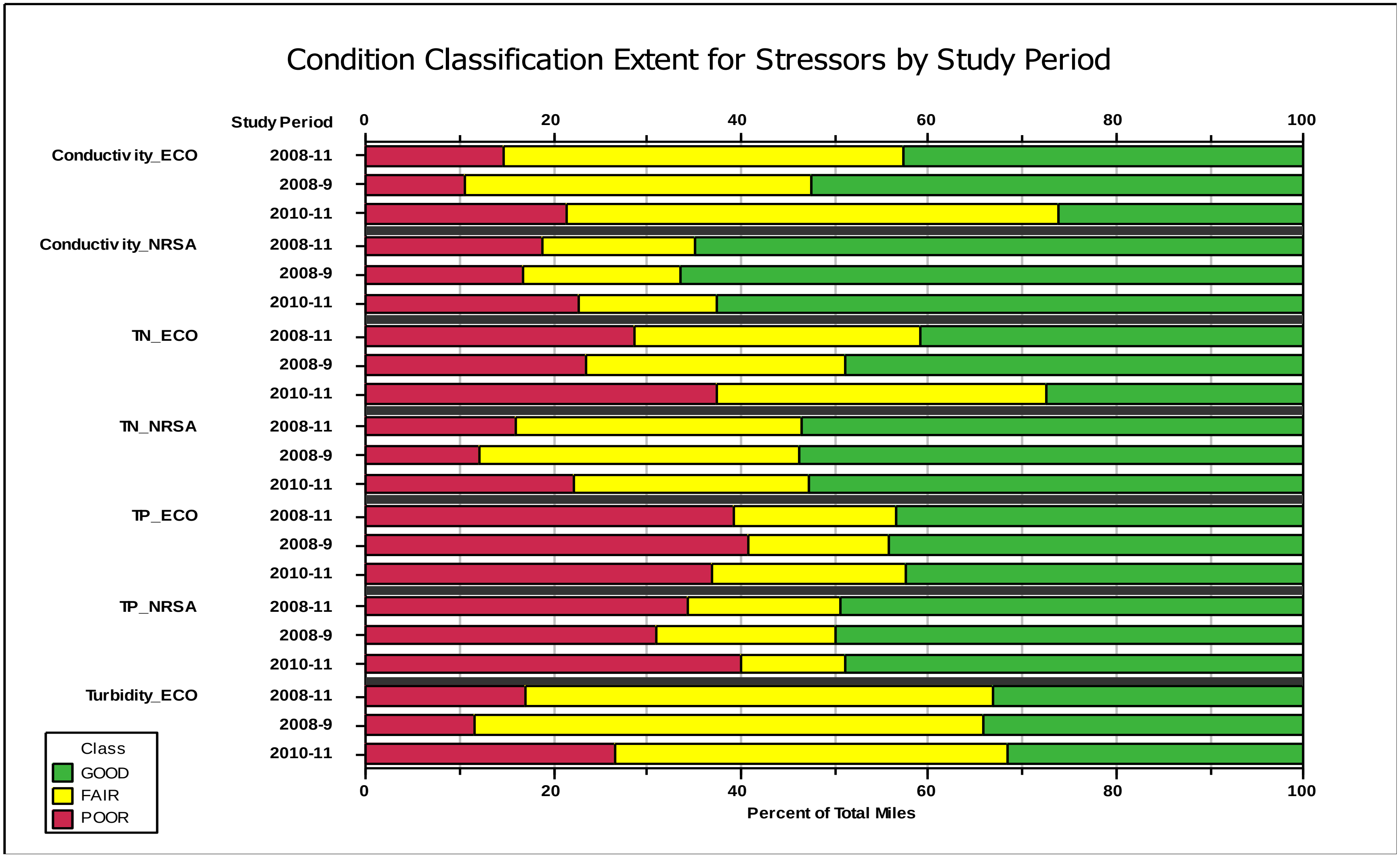

Figure 15. Stacked percentages of condition class estimates for study periods grouped by stressors. (Refer to Table 7 for stressor descriptions.)

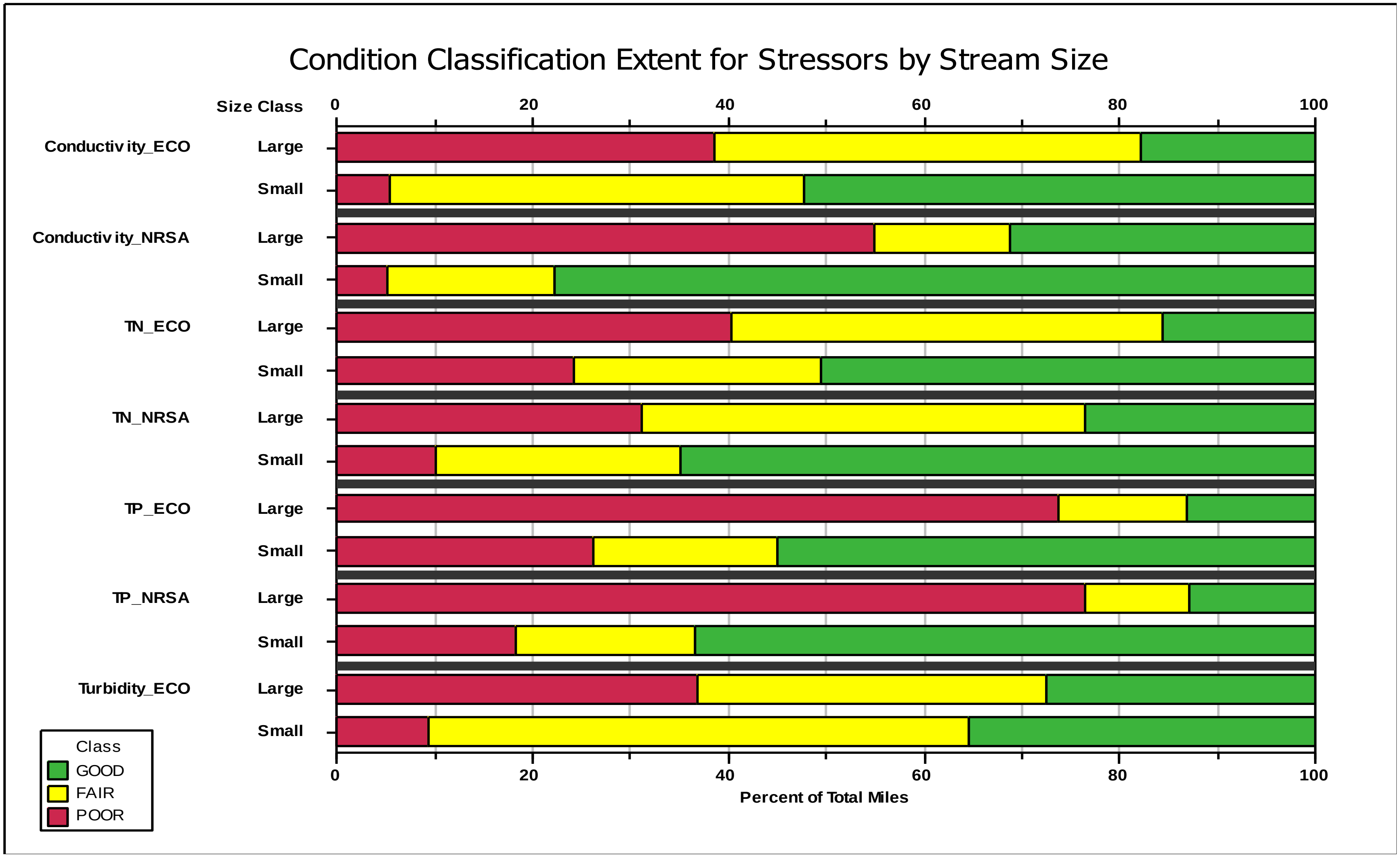

Figure 16. Stacked percentages of condition class estimates for stream size grouped by stressors. (Refer to Table 7 for stressor descriptions.)

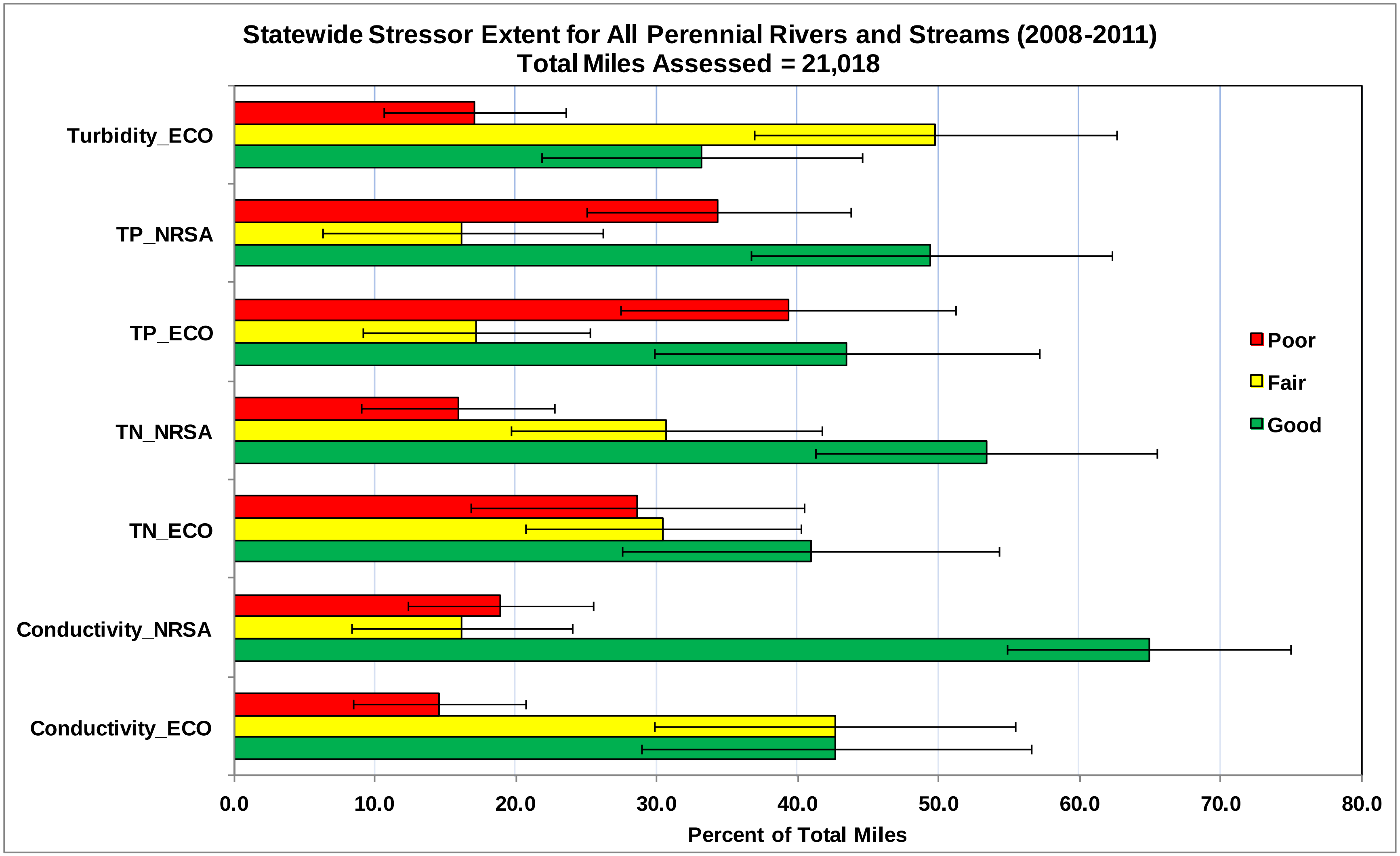

Figure 17. Stressor extent estimated statewide from 2008-2011. Upper and lower bounds represent a 95% confidence interval. (Refer to Table 7 for stressor descriptions.)

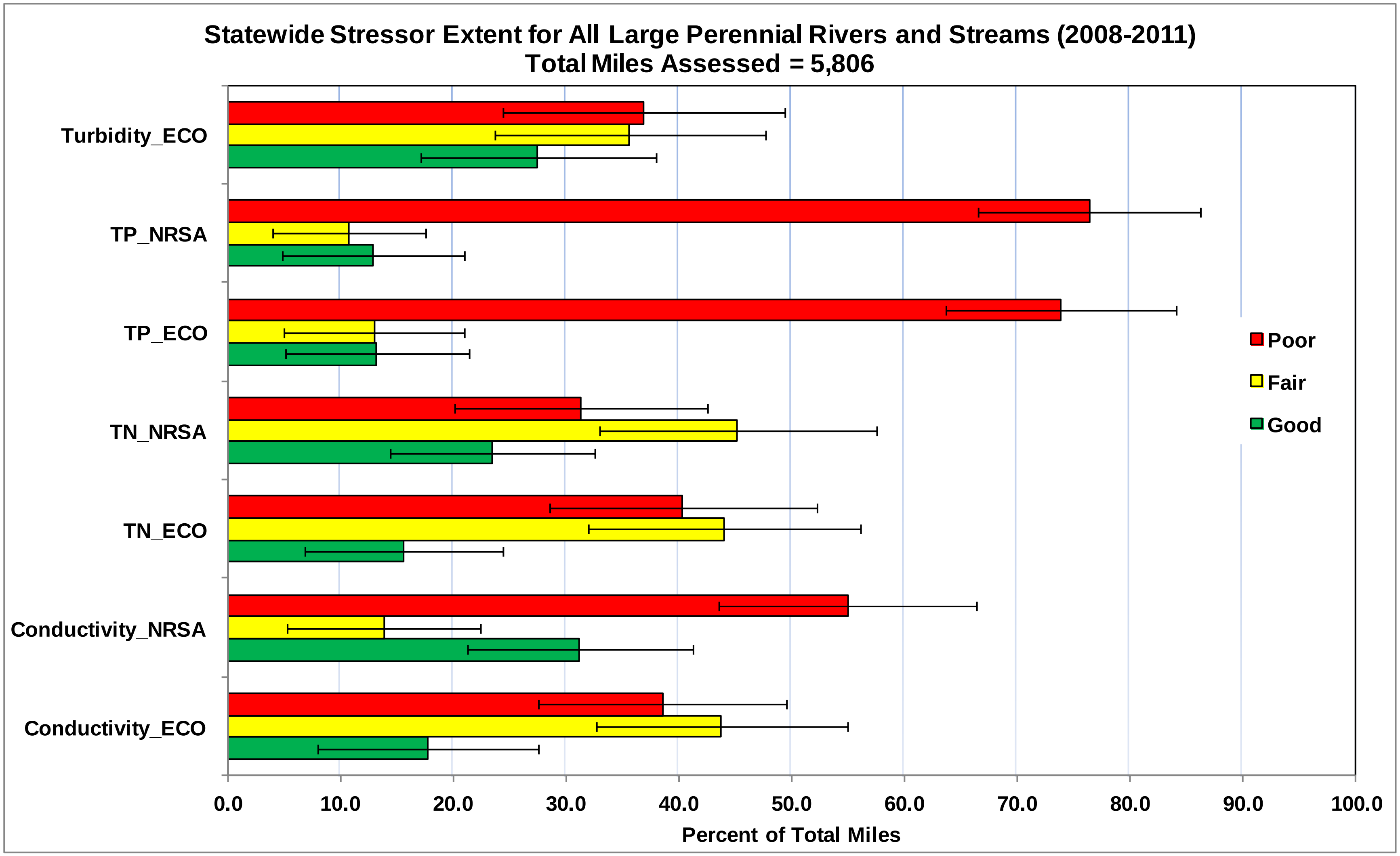

Figure 18. Stressor extent estimated statewide for larger streams and rivers (Strahler Order > 4) from 2008-2011. Upper and lower bounds represent a 95% confidence interval. (Refer to Table 7 for stressor descriptions.)

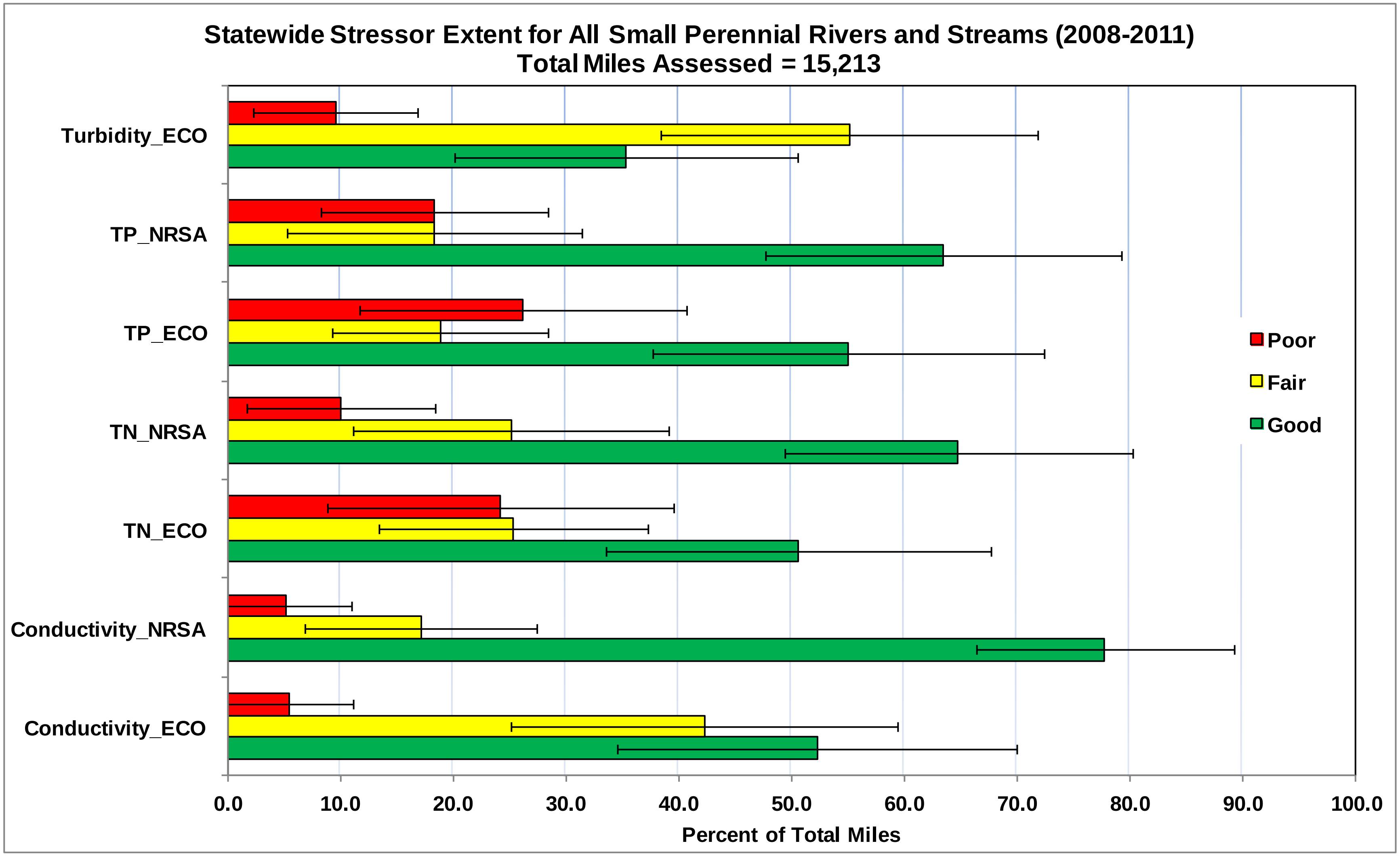

Figure 19. Stressor extent estimated statewide for smaller streams and rivers (Strahler Order < 5) from 2008-2011. Upper and lower bounds represent a 95% confidence interval. (Refer to Table 7 for stressor descriptions.)

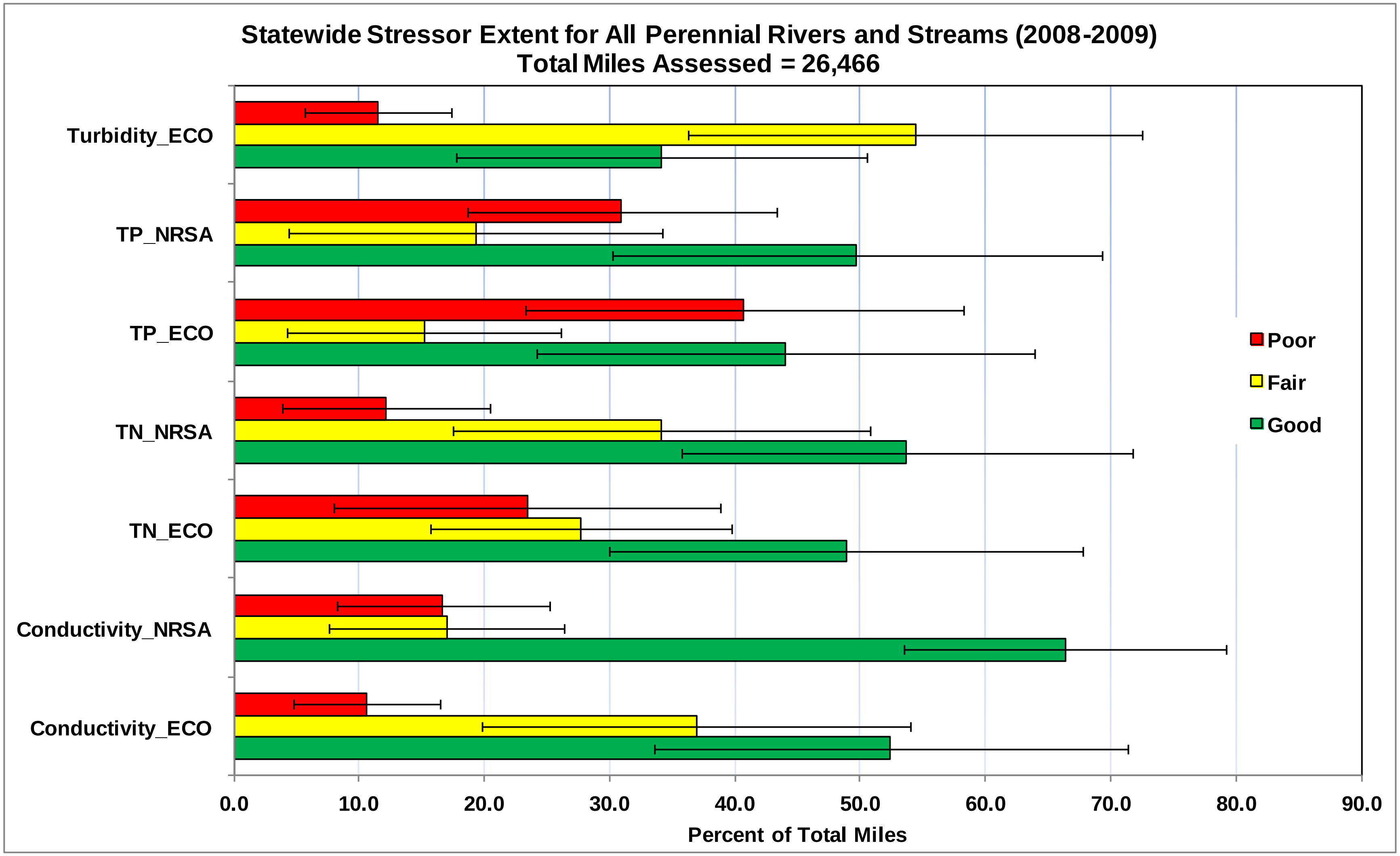

Figure 20. Stressor extent estimated statewide from 2008-2009. Upper and lower bounds represent a 95% confidence interval. (Refer to Table 7 for stressor descriptions.)

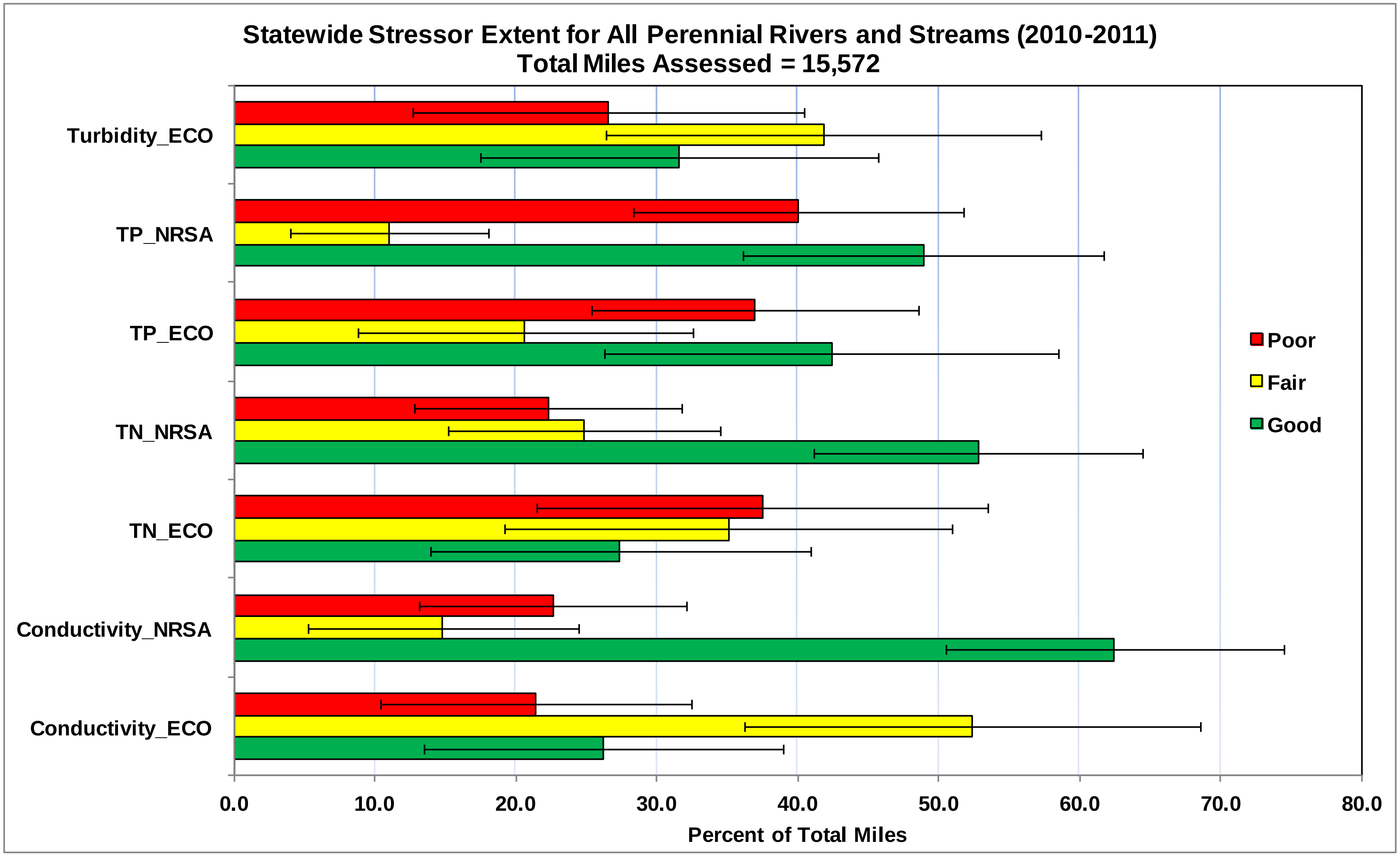

Figure 21. Stressor extent estimated statewide from 2010-2011. Upper and lower bounds represent a 95% confidence interval. (Refer to Table 7 for stressor descriptions.)

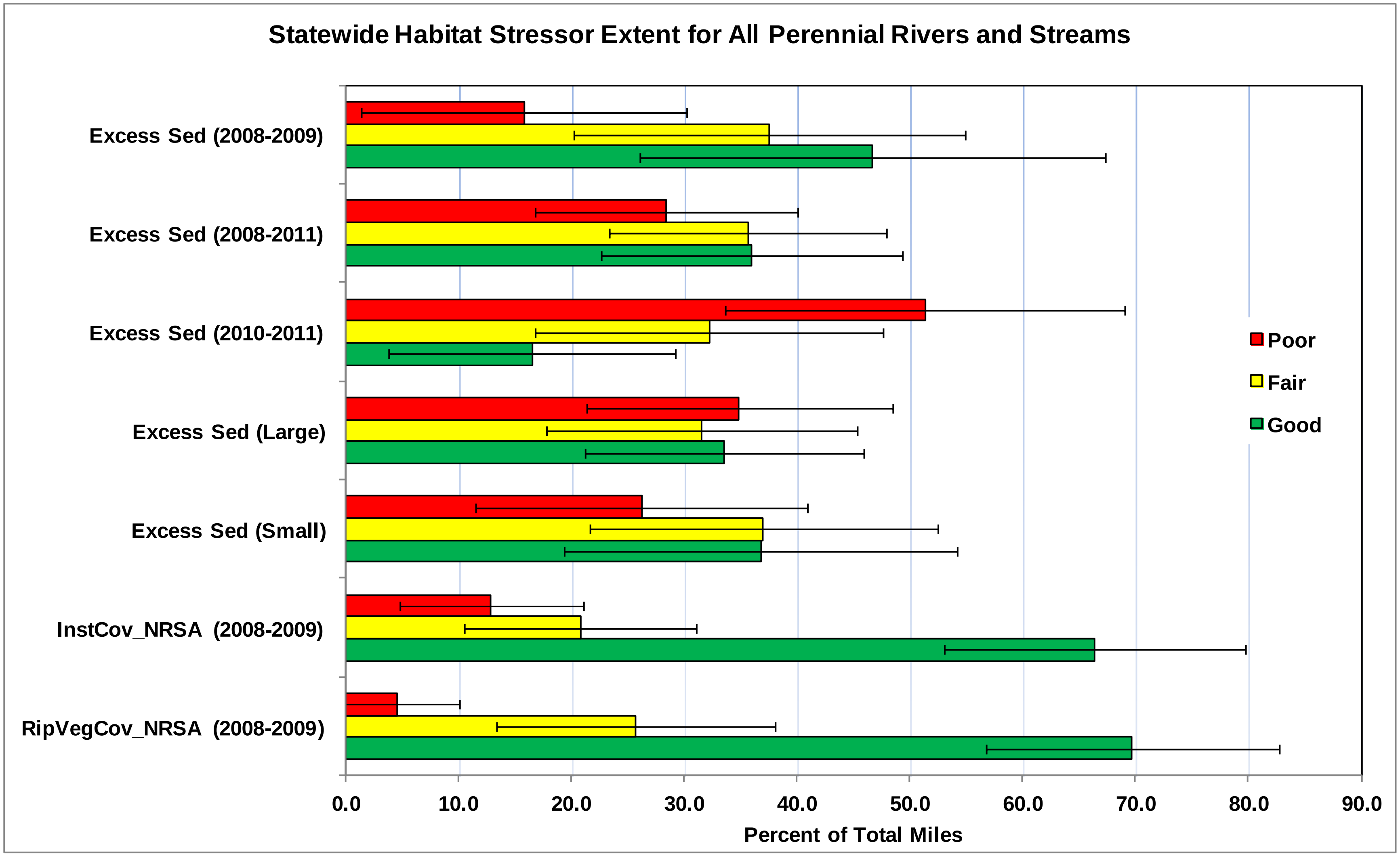

Figure 22. Sedimentation and other habitat stressors estimated statewide from 2008-2011. Upper and lower bounds represent a 95% confidence interval. (Refer to Table 7 for stressor descriptions.)

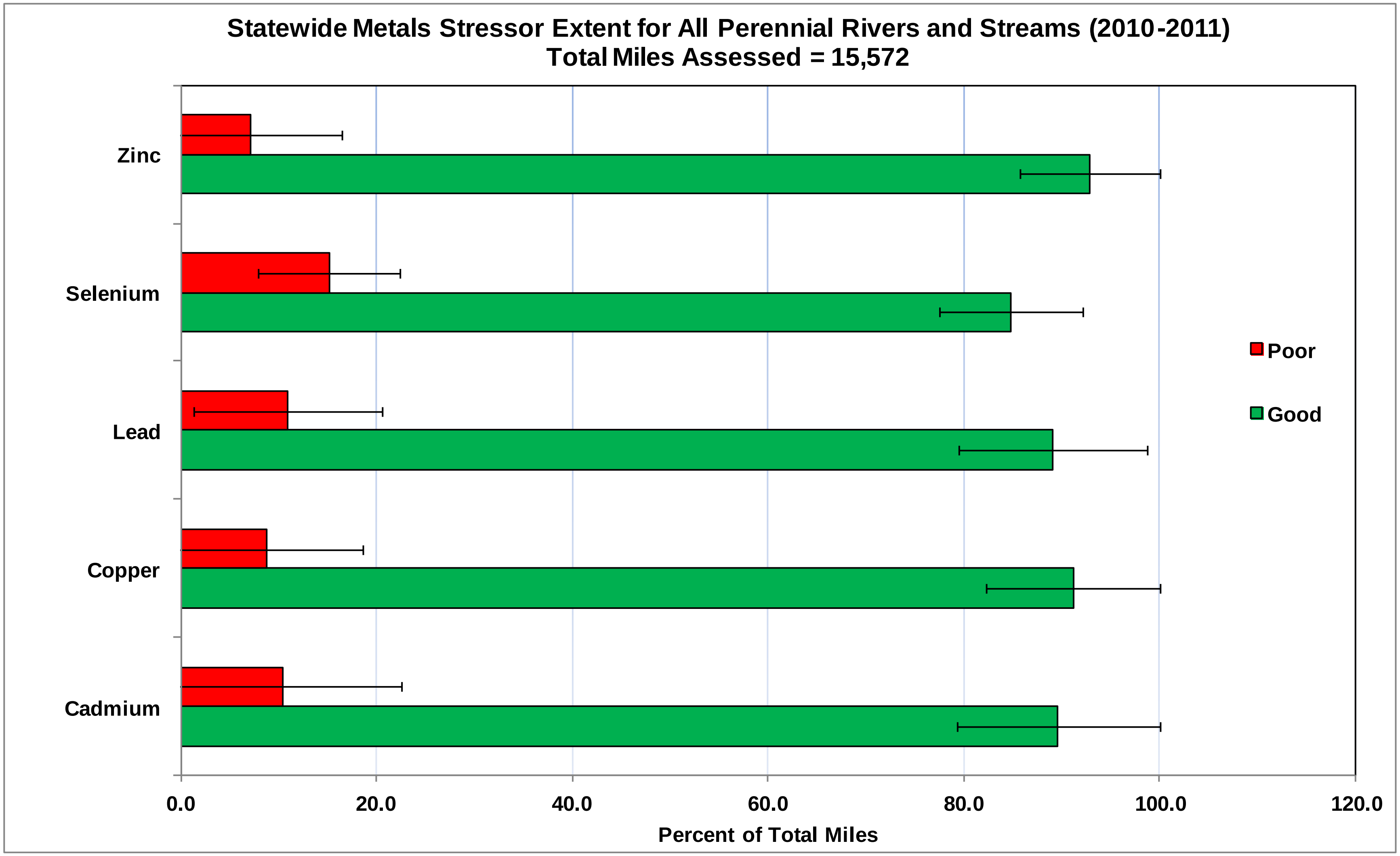

Figure 23. Metal toxicity extent estimated statewide from 2010-2011. Upper and lower bounds represent a 95% confidence interval. (Refer to Table 7 for stressor descriptions.)

Relative Risk Methodology

The concept of using relative risk to develop a relationship between biological condition and stressor extent was developed initially for the USEPA's National Wadeable Streams Assessment (USEPA, 2006). Van Sickle et al. (2006) drew upon a practice commonly used in medical sciences to determine the relationship of a stressor (e.g., high cholesterol) to a medical condition (e.g., heart disease). The method calculates a ratio between the number of streams with poor biological condition/high stressor concentration and those with poor biological condition/low stressor concentration. If the ratio is above 1, it indicates that biological condition is likely affected by high stressor concentrations (i.e., concentrations above a preset level). As the ratio increases beyond 1, the relative risk of the stressor increases (Van Sickle, 2004).

The following analyses include a comparison of a variety of stressors to biological conditions for fish, macroinvertebrates, and algal biomass. For each stressor, relative risk is determined for study period and/or waterbody size. The analysis uses a binomial designation of good/poor for condition and high/low for stressor concentration. These binomial designations are then placed in a two-way contingency table to determine relative risk. Two initial ratios are determined. The ratio for poor condition given high stressor concentration is compared to the total number of sites having high stressor concentration, regardless of condition. Likewise, the ratio for poor condition given low stressor concentration is compared to the total number of sites having low stressor concentrations, regardless of condition. These two ratios are then used to calculate relative risk. For each indicator and stressor, the good and fair conditions were collapsed into a good condition for purposes of calculating relative risk. Significant relative risk will be determined by applying a 95% confidence, which must remain above 1.0 for risk to be considered significant.

Relative Risk to Fish Condition

The relative risks of various stressors to fish condition are represented in Figures 24-29. The relative risk of poor fish condition is generally greater than 1 when most stressors are in poor condition. However, few are not significant, regardless of study period or size. For the 2008-2009 study period, the ecoregion total nitrogen screening limit shows a significant relative risk of nearly 2.5 to fish condition (Figure 24). Likewise, if the NRSA conductivity is in poor condition, the risk of poor fish condition is 4.7 times greater during 2010-2011 period (Figure 26) and 2.9 times greater in small streams (Figure 27). Additionally, the risk for poor fish condition is 1.7 times greater in large rivers when turbidity is in poor condition (Figure 27). When excess sediment leads to poor condition, poor fish condition is 2.1 times more likely in large rivers and 2.3 times during the 2008-2009 study period (Figure 28). Metals toxicity demonstrates no significant relative risk to fish condition (Figure 29).

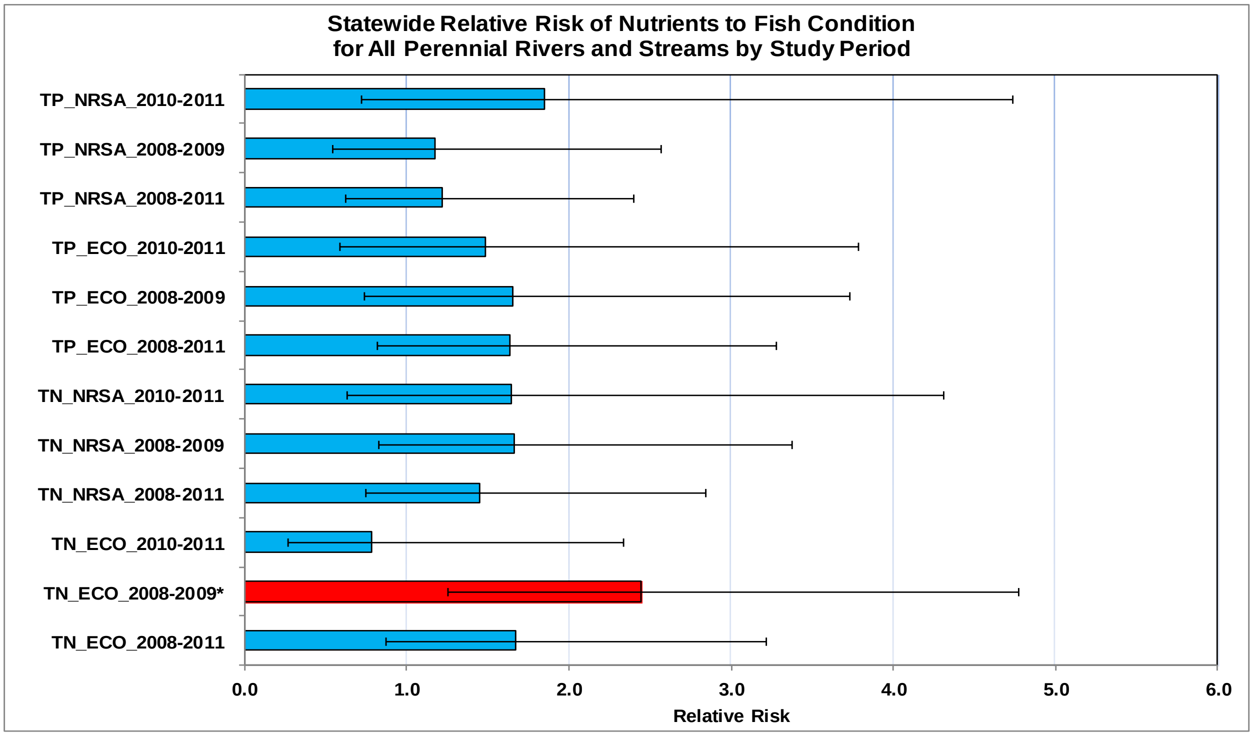

Figure 24. Relative risk of nutrient stressors affecting poor fish condition by study period. (upper/lower bounds represent a 95% confidence interval-CI) (* = significant relative risk-RR)

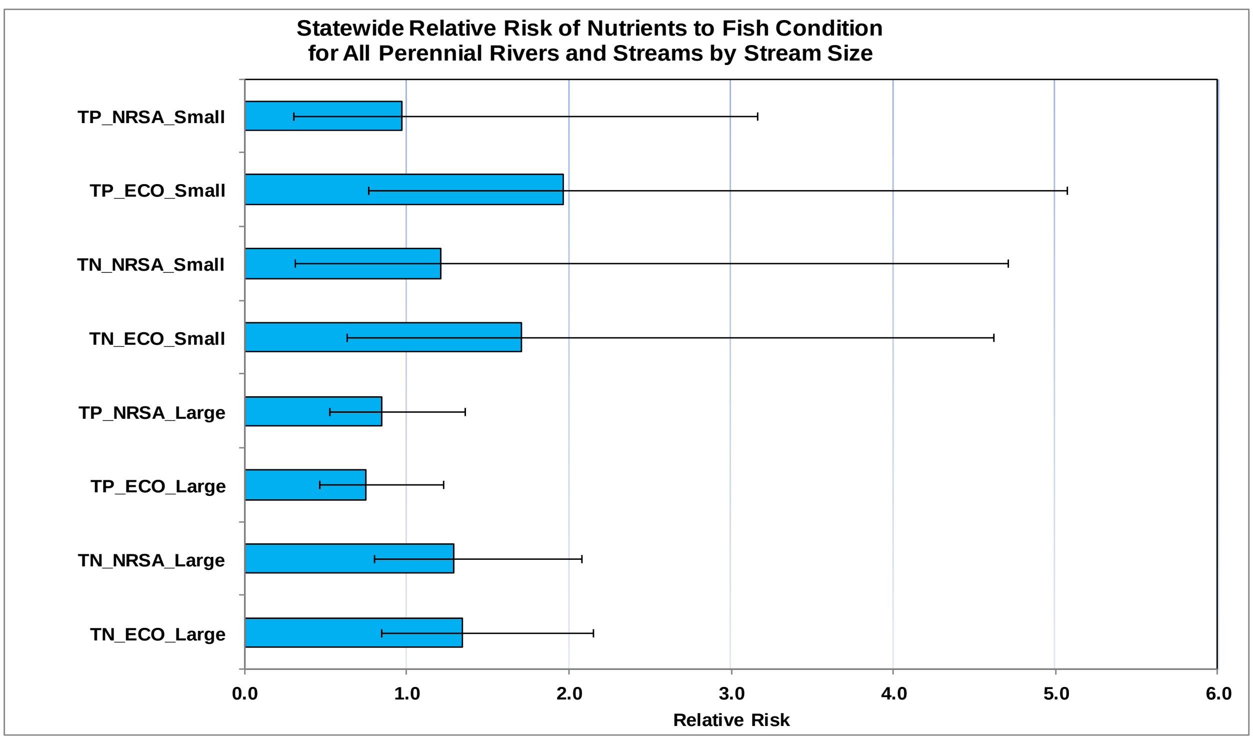

Figure 25. Relative risk of nutrient stressors affecting poor fish condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

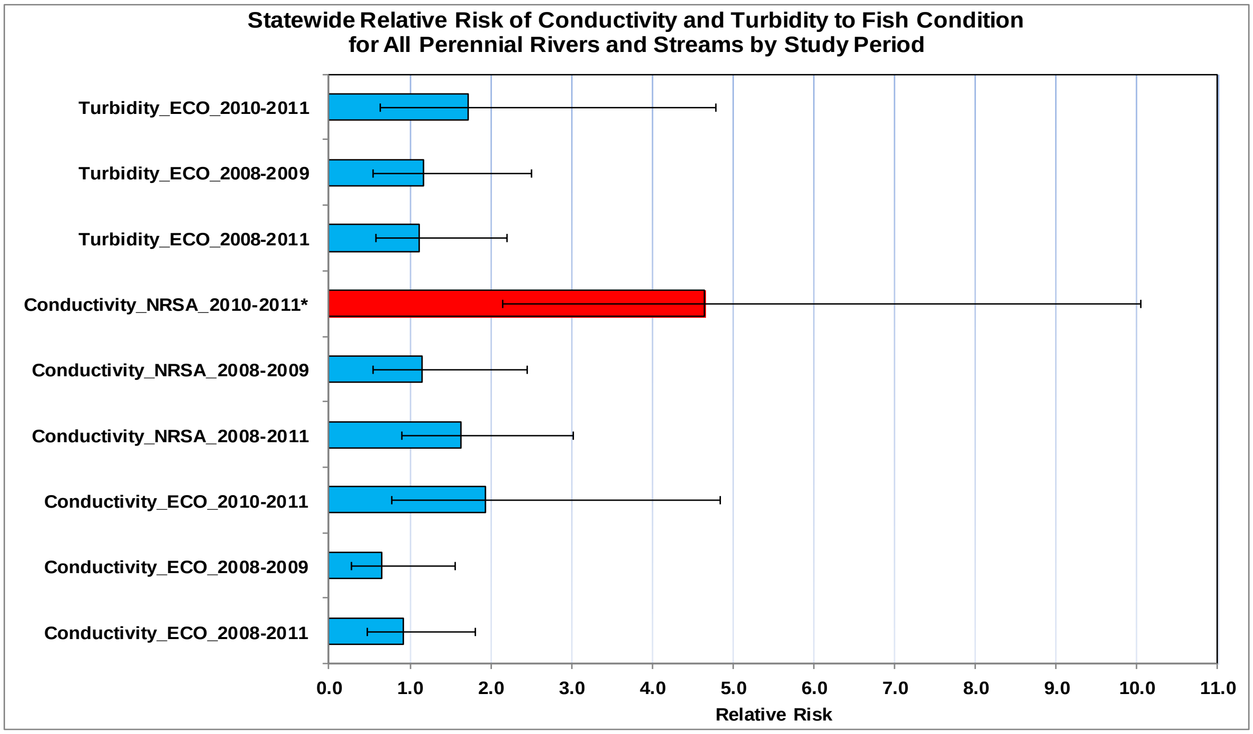

Figure 26. Relative risk of conductivity and turbidity stressors affecting poor fish condition by study period. (upper/lower bounds represent a 95% CI) (* = significant RR)

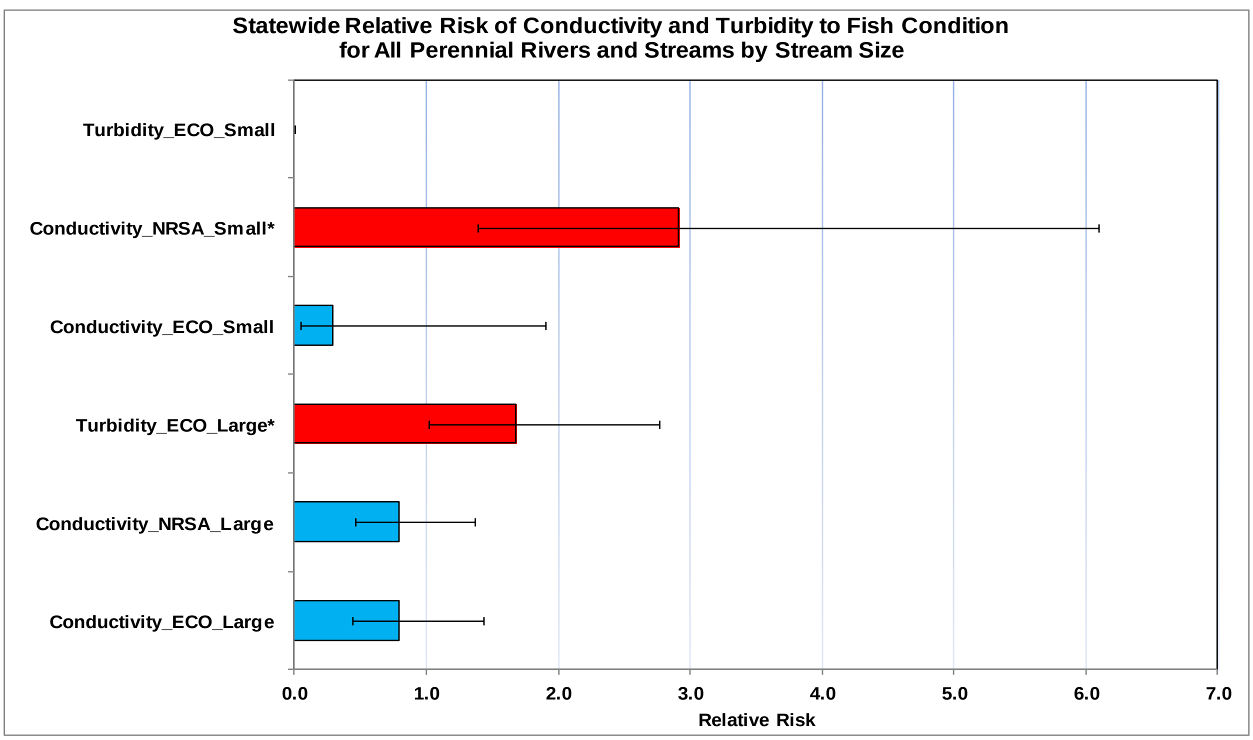

Figure 27. Relative risk of conductivity and turbidity stressors affecting poor fish condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

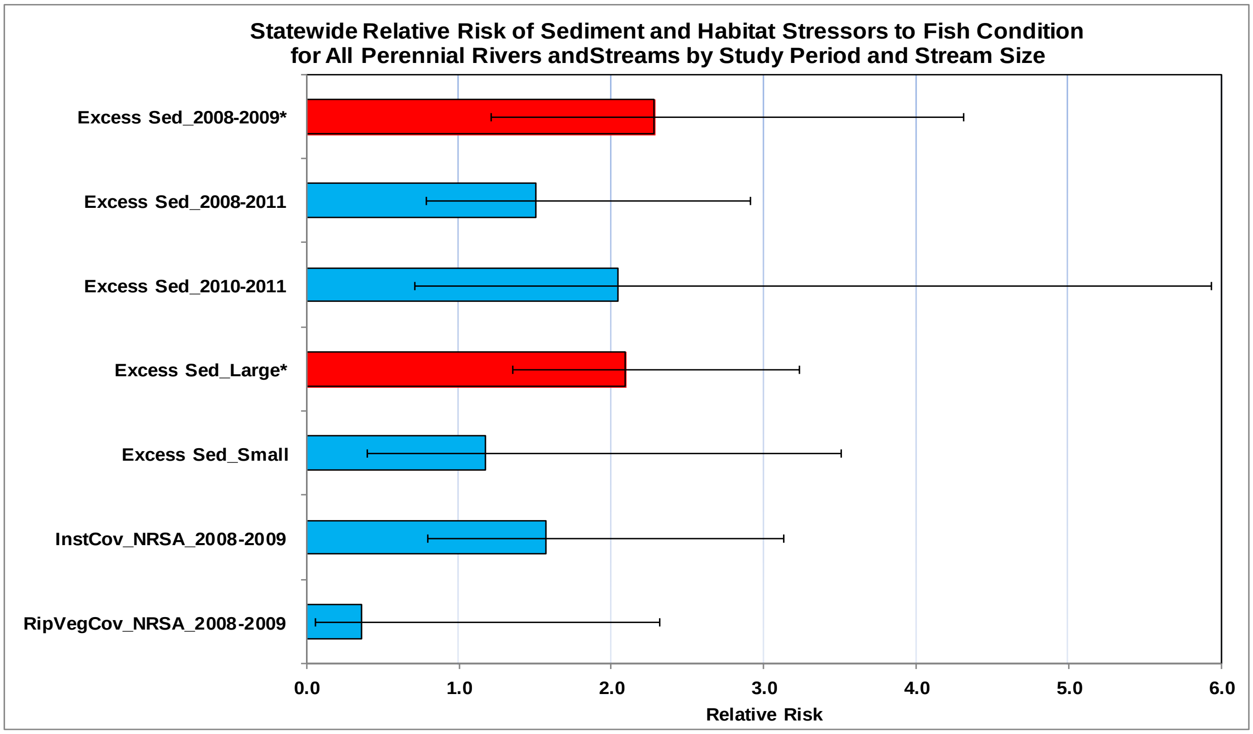

Figure 28. Relative risk of sediment and habitat stressors affecting poor fish condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

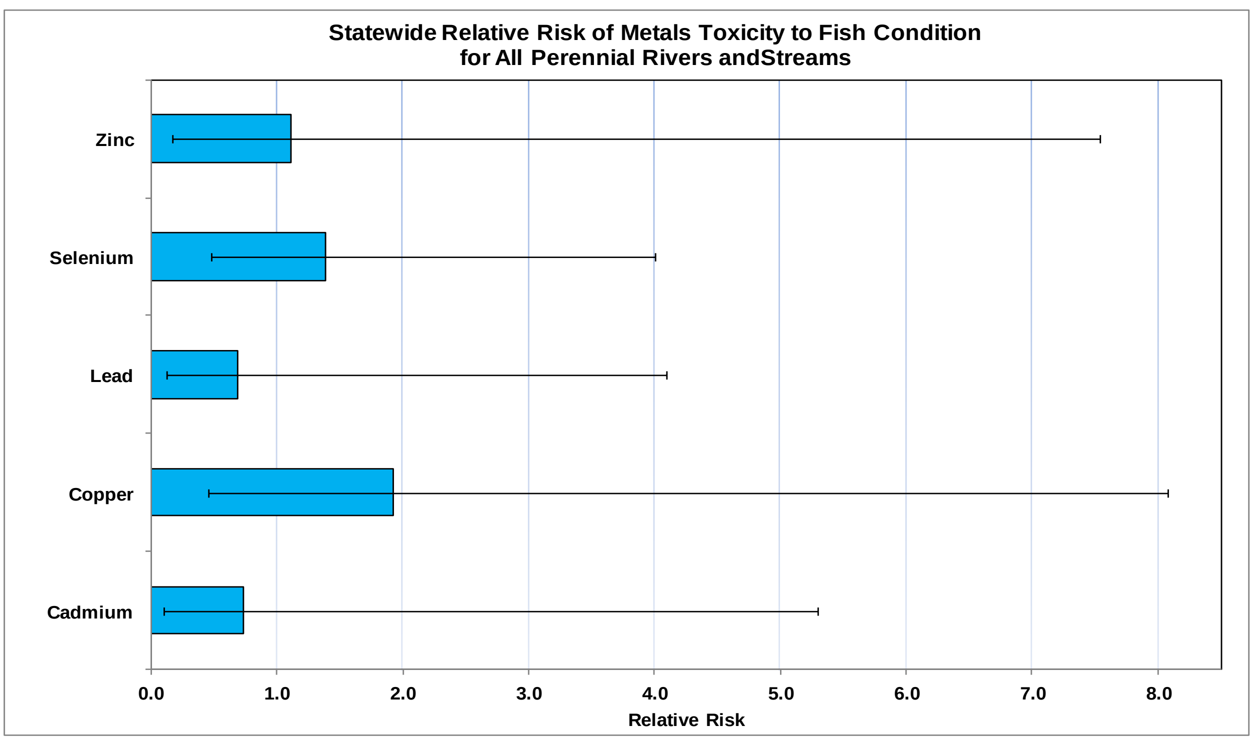

Figure 29. Relative risk of metal toxicity stressors affecting poor fish condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

Relative Risk to Macroinvertebrate Condition

The relative risks of various stressors to macroinvertebrate condition are shown in Figures 30-35. As with fish, the relative risk of poor macroinvertebrate condition is generally greater than 1 when most stressors are in poor condition, but unlike fish, many demonstrate significant risk. With the exception of the NRSA screening limit during study certain periods, the risk of poor macroinvertebrate condition is 2.3 to 3.5 times greater with poor total phosphorus condition and 1.9 to 4.3 times greater with poor total nitrogen condition (Figure 30). For stream size, small streams with poor total phosphorus condition are 3.4 to 5.8 times more likely to have poor macroinvertebrate condition (Figure 31). Poor total nitrogen condition, regardless of size, and total phosphorus in large rivers do not pose a significant relative risk to macroinvertebrate condition. When conductivity is in poor condition, all waterbodies are 2.4 to 3.2 times more likely to have poor macroinvertebrate condition, and from 2010-2011, poor condition was 2.9 times more likely when turbidity was in poor condition (Figure 32). Depending on the screening limit, risk of poor macroinvertebrate condition is 3.7 times greater in small streams and 1.7 times greater in large rivers when conductivity condition is poor (Figure 33). Turbidity demonstrates no significant relative risk to macroinvertebrate condition when considering waterbody size. The risk of poor macroinvertebrate condition is 2.3 times more likely when riparian vegetative cover is poor, and from 2008-2009, was 2.6 greater with excess sedimentation (Figure 34). Large rivers are also 1.5 times more likely to show poor condition with excess sedimentation. Finally, as with fish, metals toxicity demonstrates no significant relative risk to macroinvertebrate condition (Figure 29).

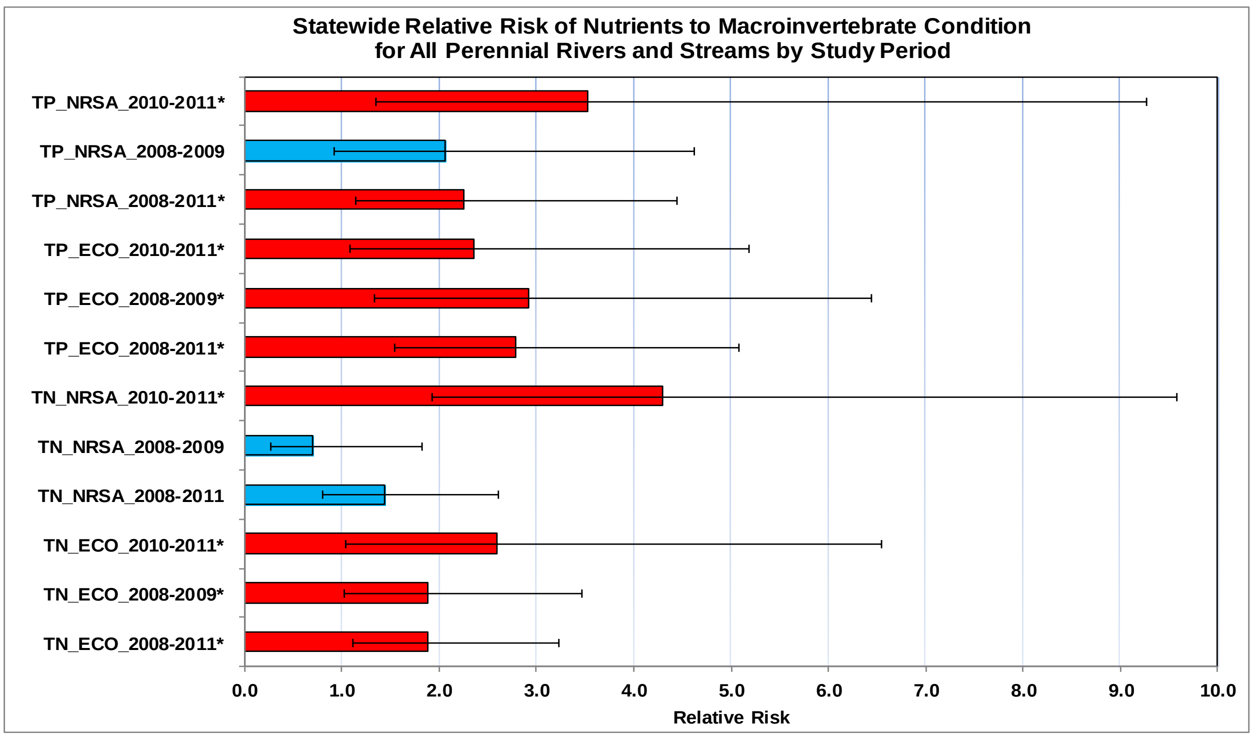

Figure 30. Relative risk of nutrient stressors affecting poor macroinvertebrate condition by study period. (upper/lower bounds represent a 95% CI) (* = significant RR)

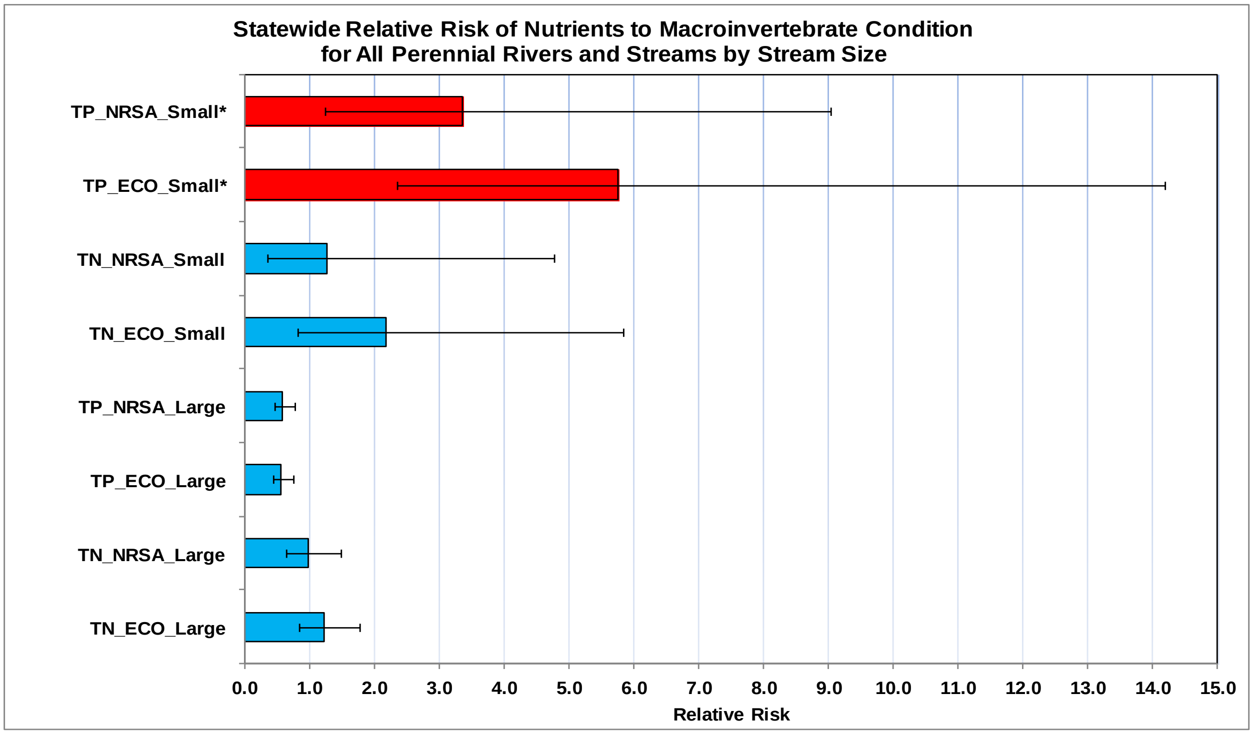

Figure 31. Relative risk of nutrient stressors affecting poor macroinvertebrate condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

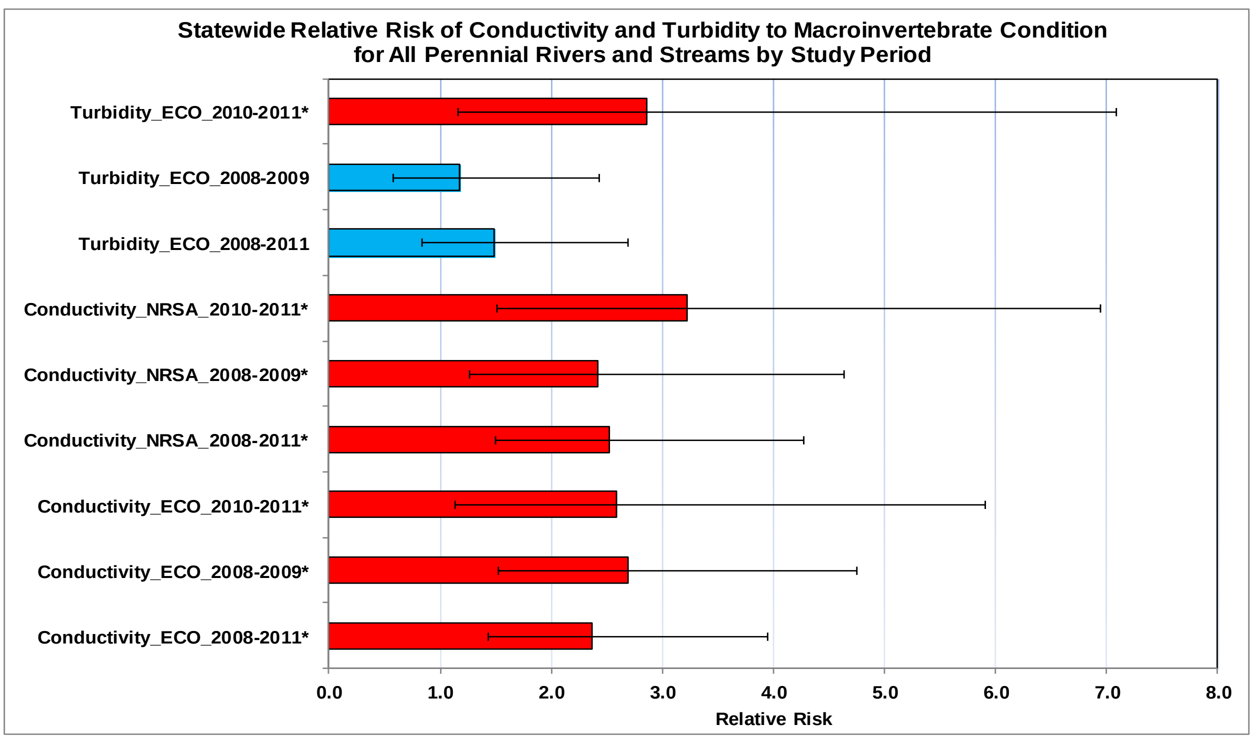

Figure 32. Relative risk of conductivity and turbidity stressors affecting poor macroinvertebrate condition by study period. (upper/lower bounds represent a 95% CI) (* = significant RR)

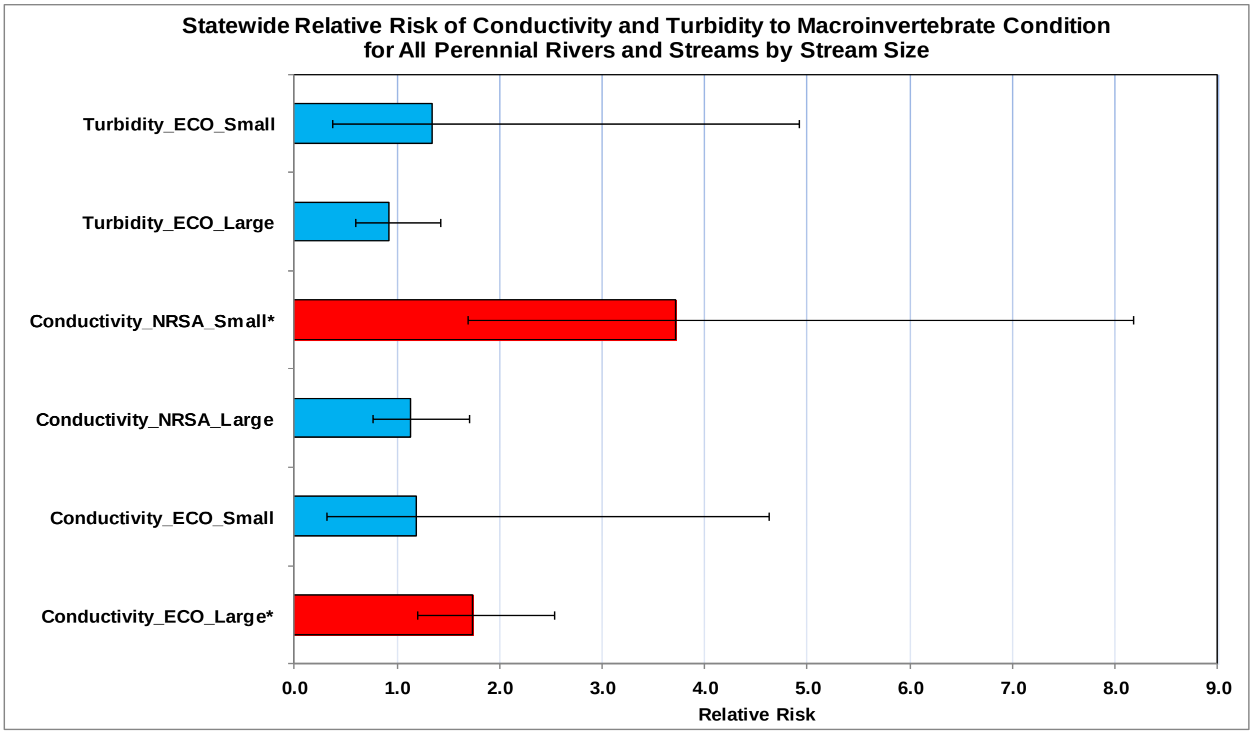

Figure 33. Relative risk of conductivity and turbidity stressors affecting poor macroinvertebrate condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

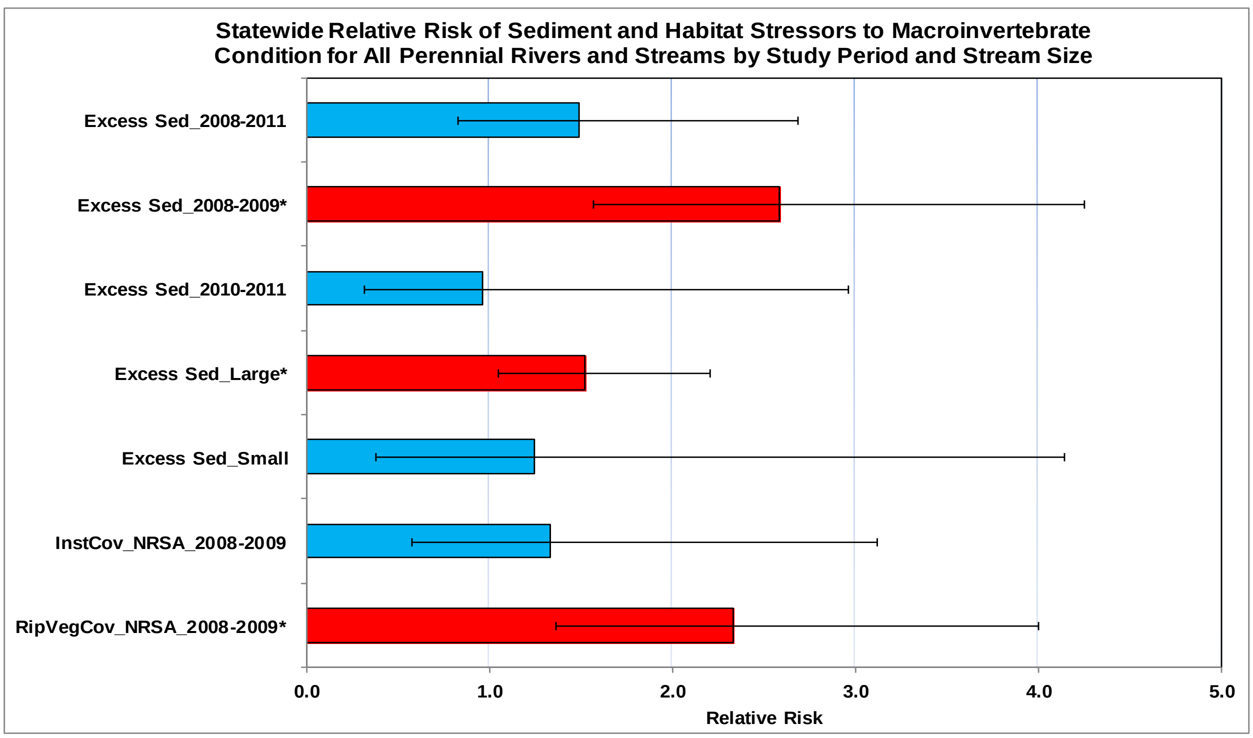

Figure 34. Relative risk of sediment and habitat stressors affecting poor macroinvertebrate condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

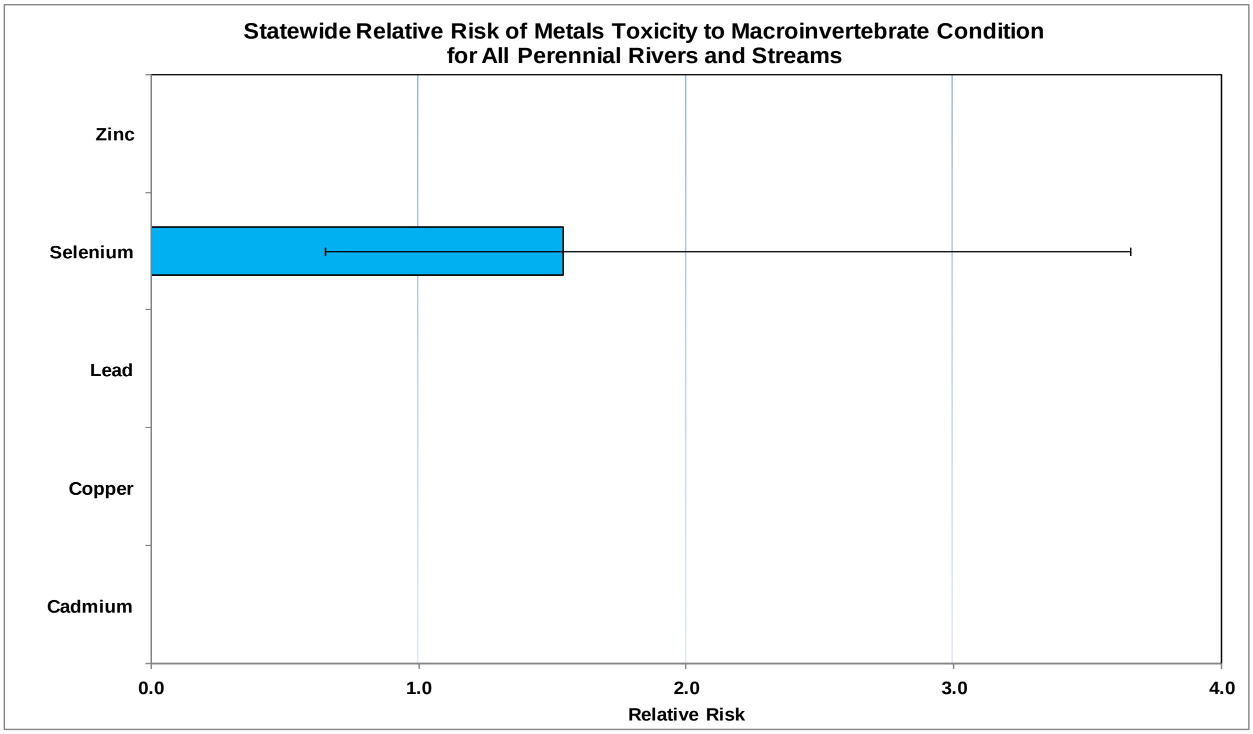

Figure 35. Relative risk of metal toxicity stressors affecting poor macroinvertebrate condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

Relative Risk to Benthic Algae Condition

The relative risks of various stressors to benthic algae condition are represented in Figures 36-41. Nutrients show very little significant relative risk, regardless of study period or waterbody size (Figures 36 and 37). For the 4-year study period, benthic algae condition was 3.3 times more likely to be poor when NRSA total nitrogen was in poor condition (Figure 36). Likewise, over the entire study period, poor conductivity condition was 3.0 to 4.5 times more likely to lead to excessive benthic algal growth (Figure 38). When the ecoregion conductivity was high, the likelihood of poor condition in the population increased by 10.2 times from 2008-2009 (Figure 38) and 9.6 times in small streams (Figure 39). Poor turbidity and habitat condition, as well as excess sedimentation, pose no significant relative risk to benthic algae condition (Figures 38-40). Interestingly, excess benthic algal growth is more likely when lead (3.9) and selenium (2.9) are above the applicable chronic toxicity criteria (Figure 41).

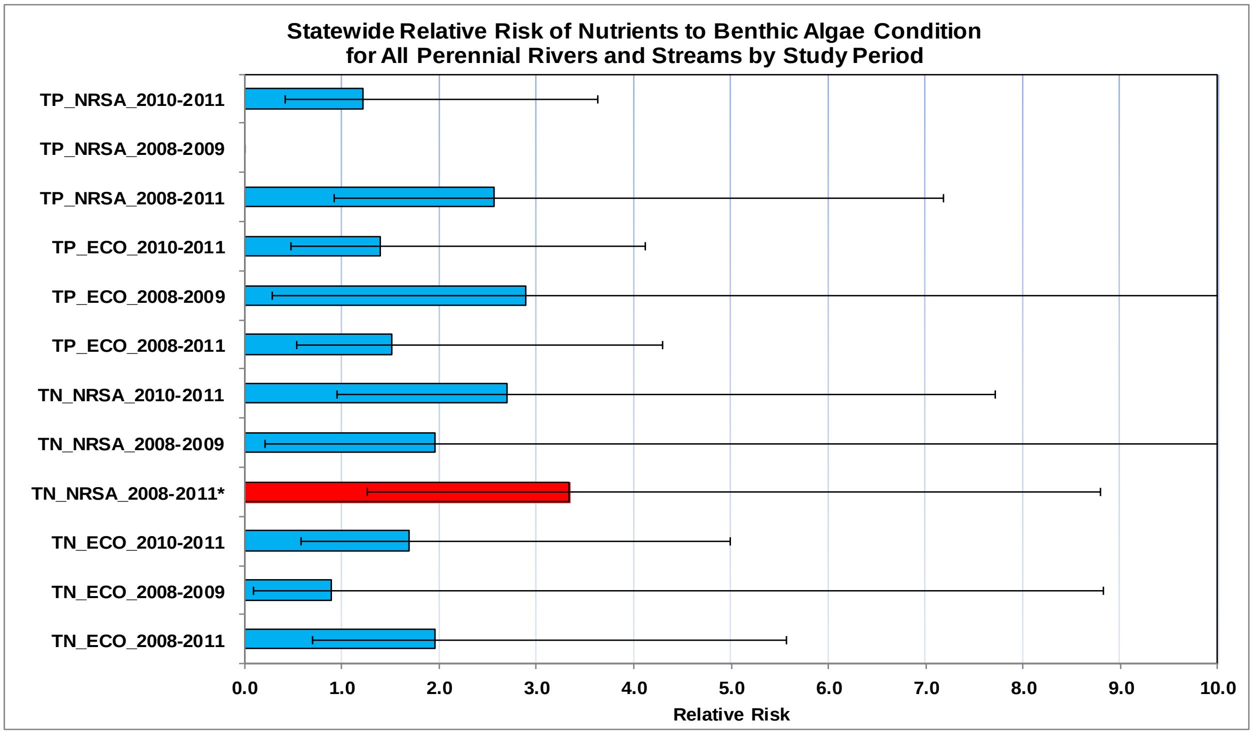

Figure 36. Relative risk of nutrient stressors affecting poor benthic algae condition by study period. (upper/lower bounds represent a 95% CI) (* = significant RR)

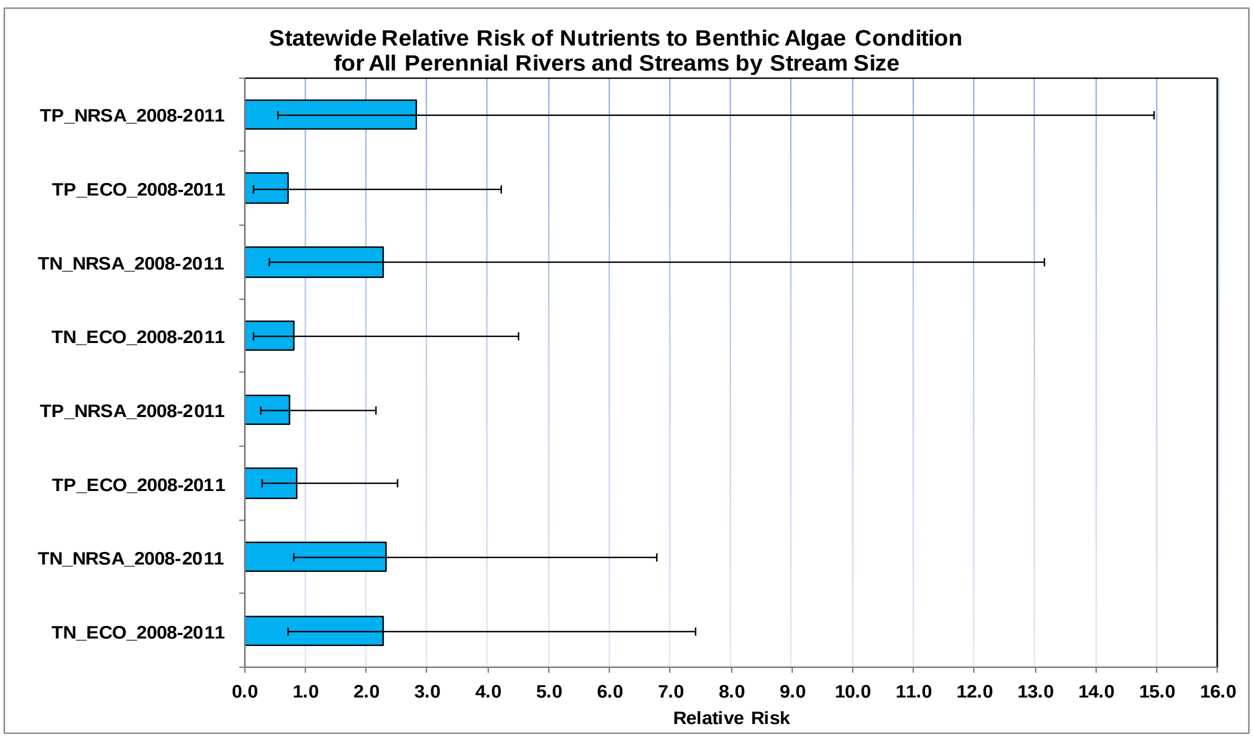

Figure 37. Relative risk of nutrient stressors affecting poor benthic algae condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

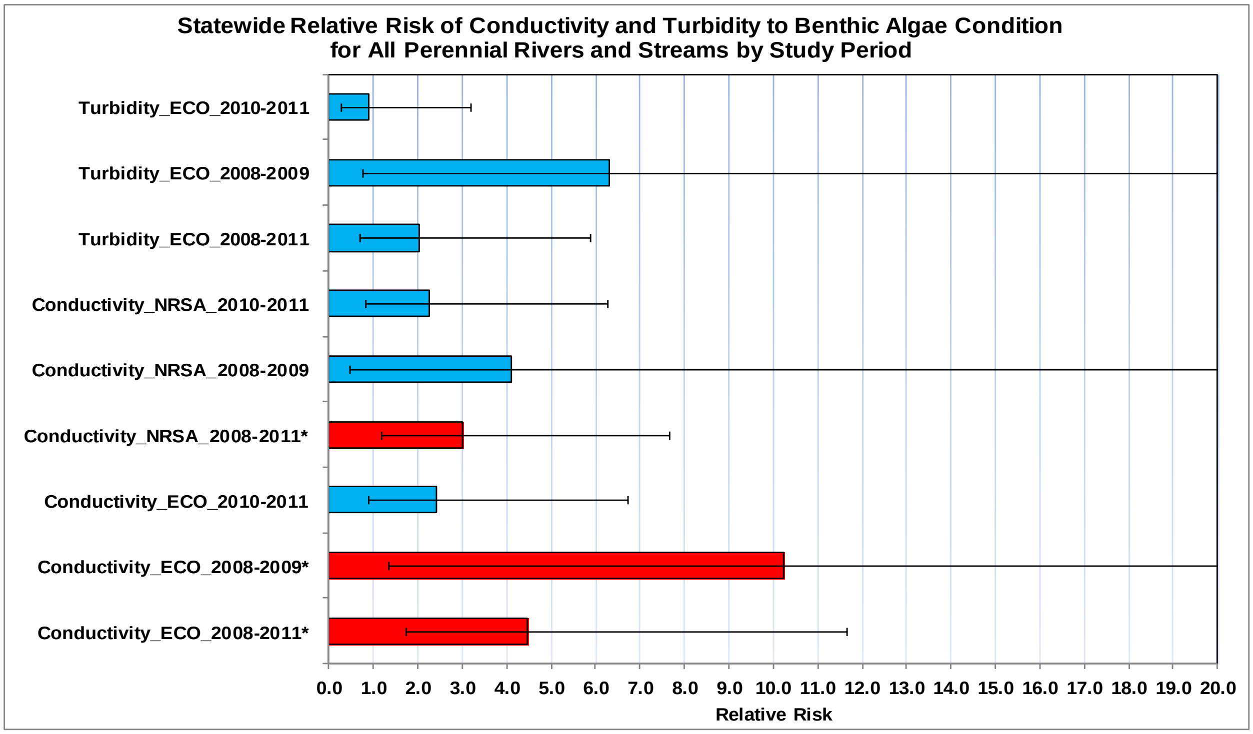

Figure 38. Relative risk of conductivity and turbidity stressors affecting poor benthic algae condition by study period. (upper/lower bounds represent a 95% CI) (* = significant RR)

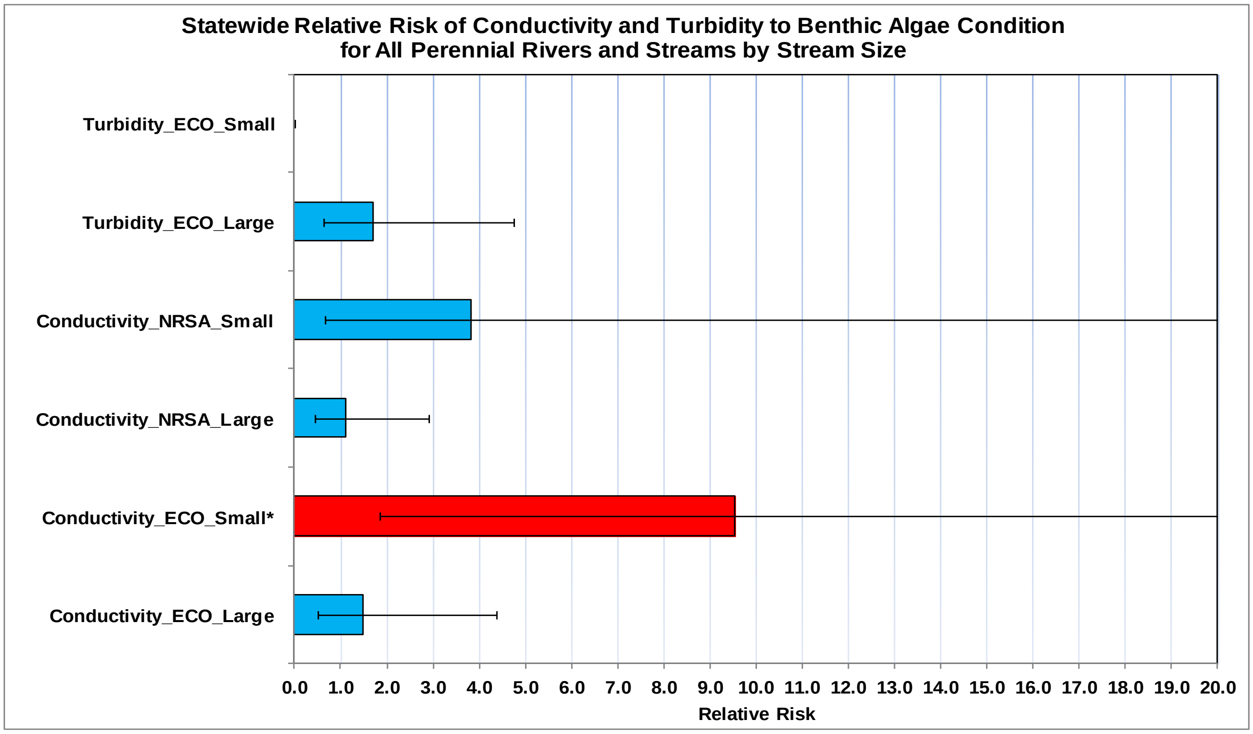

Figure 39. Relative risk of conductivity and turbidity stressors affecting poor benthic algae condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

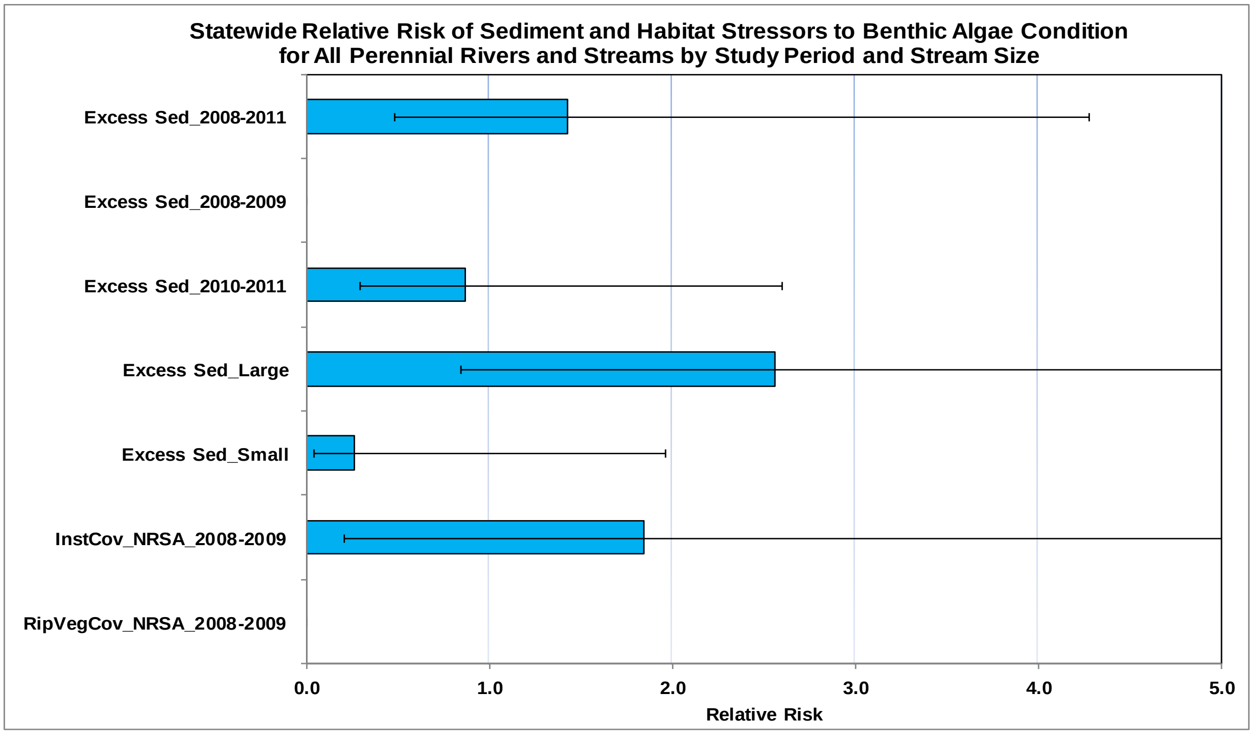

Figure 40. Relative risk of sediment and habitat stressors affecting poor benthic algae condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

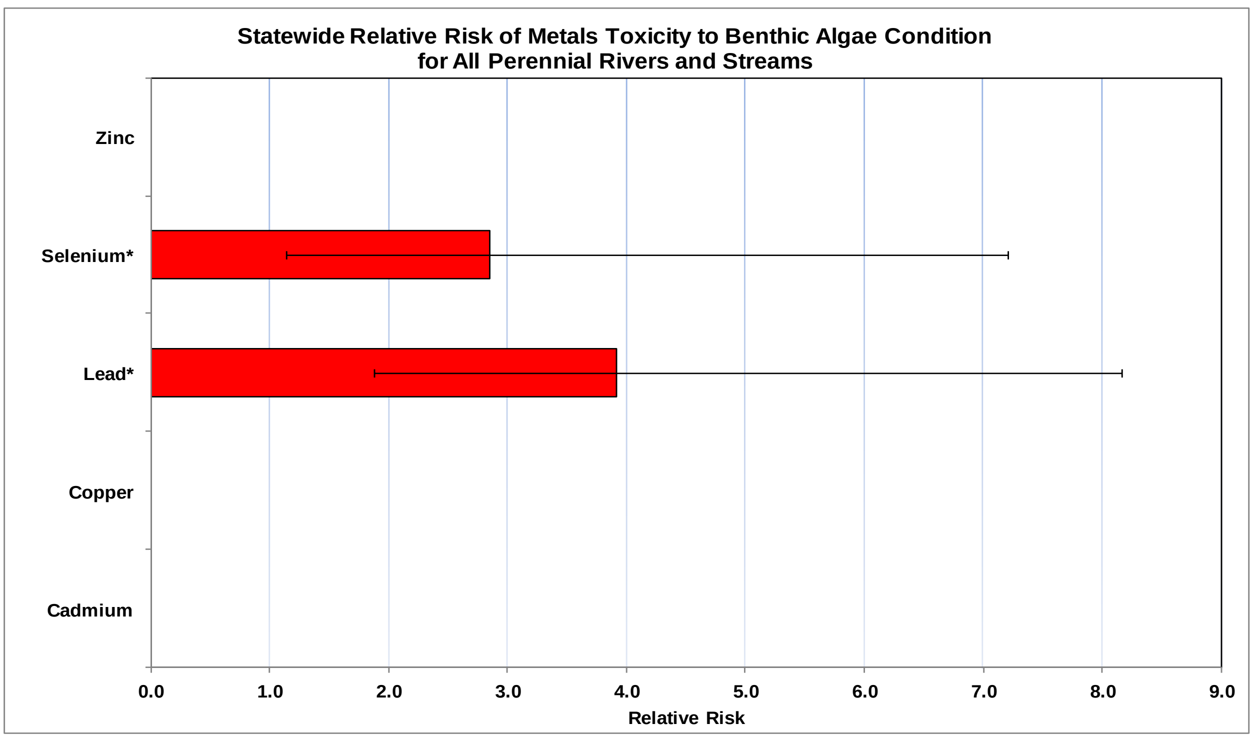

Figure 41. Relative risk of metal toxicity stressors affecting poor benthic algae condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

Relative Risk to Sestonic Algal Condition

The relative risks of various stressors to sestonic algae condition are represented in Figures 42-47. Regardless of study period, poor total phosphorus condition increases by 4.7-15.6 times the risk of poor sestonic algae condition (Figure 42). When the NRSA total nitrogen screening limit is in poor condition, the risk of poor condition increases by 2.8-3.4 times during the 4-year study period as well as the 2010-2011 period. In large rivers, the risk of poor sestonic algae condition increases by 2 to 3.7 times when total phosphorus is in poor condition and 1.4 times when total nitrogen is poor (Figure 43). Conversely, in small rivers, significant risk is confined to NRSA total phosphorus, with the risk of excess sestonic algal growth increased by 6.6 times. With poor conductivity condition, the risk of increased algal growth increased by 3 to 6.6 times, and poor turbidity condition increased risk by 2.7 to 4.5 times, during the 4-year and the 2008-2009 study periods (Figure 44). In small streams, high conductivity increased by 5.3 times the risk for excess sestonic algal growth (Figure 45), while large rivers showed no significant relative risk related to conductivity. There was not significant relative risk to poor turbidity condition in large or small waterbodies. Excess sediment and poor riparian vegetative cover did not significantly increase relative risk (Figure 46). However, poor instream cover increased the likelihood of excessive sestonic algal growth by 2.9 times. Finally, lead concentrations above the chronic criterion increased the likelihood of excessive algal growth by 3.2 times (Figure 47).

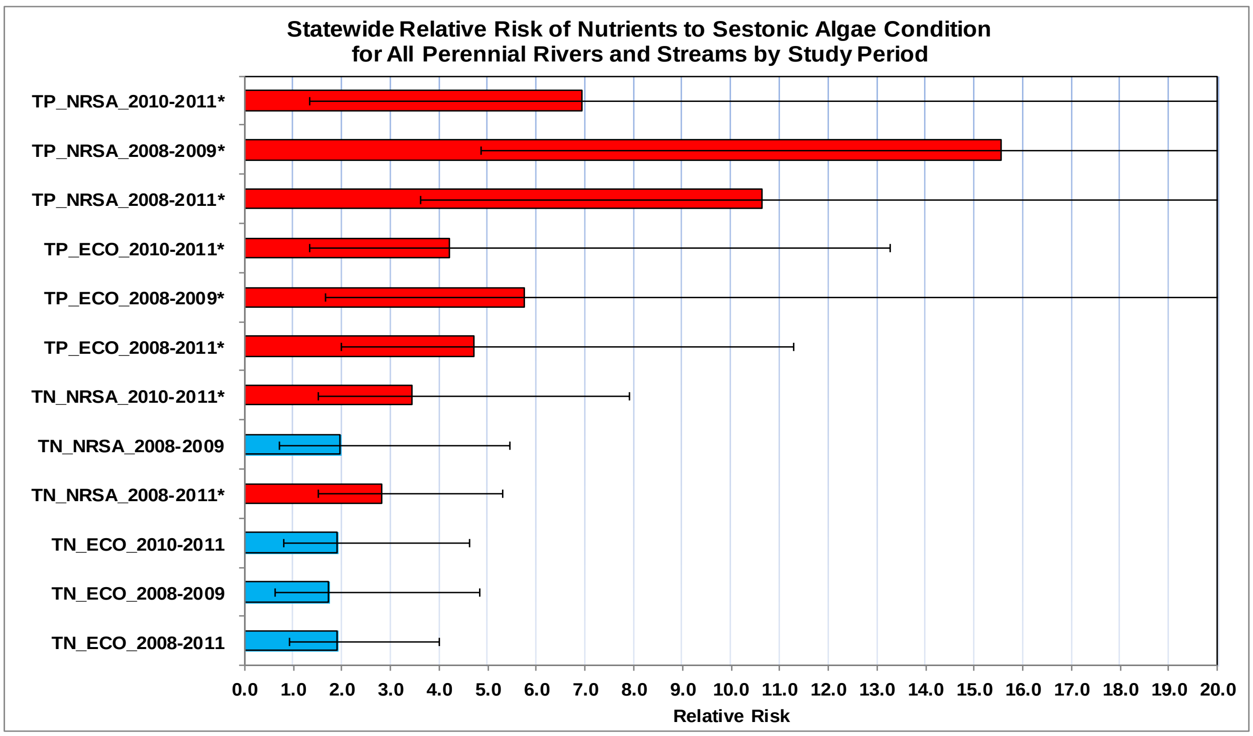

Figure 42. Relative risk of nutrient stressors affecting poor sestonic algae condition by study period. (upper/lower bounds represent a 95% CI) (* = significant RR)

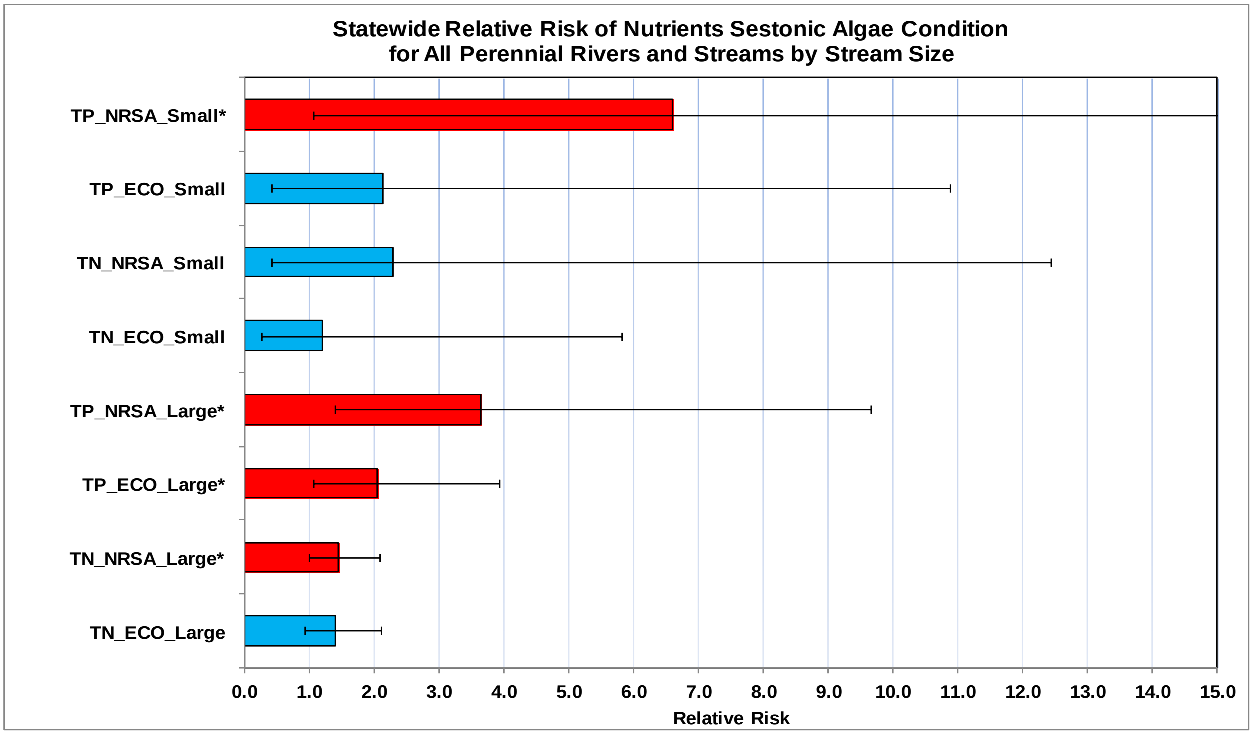

Figure 43. Relative risk of nutrient stressors affecting poor sestonic algae condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

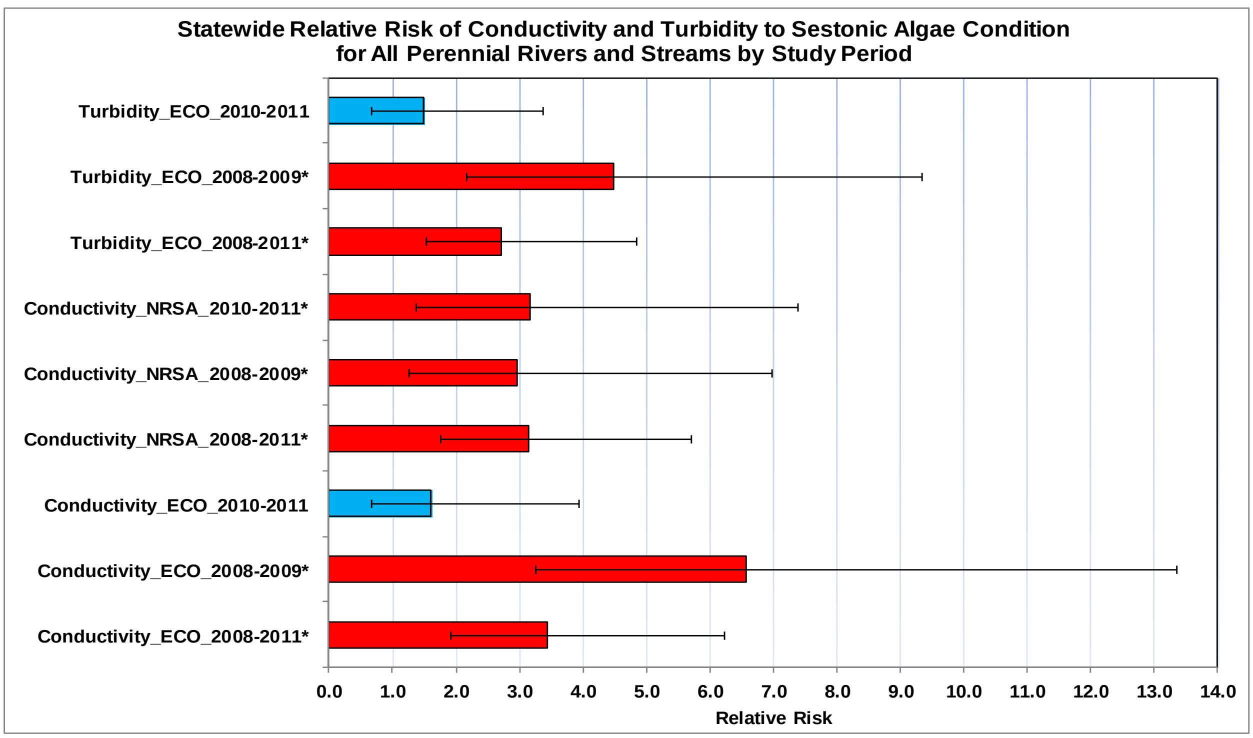

Figure 44. Relative risk of conductivity and turbidity stressors affecting poor sestonic algae condition by study period. (upper/lower bounds represent a 95% CI) (* = significant RR)

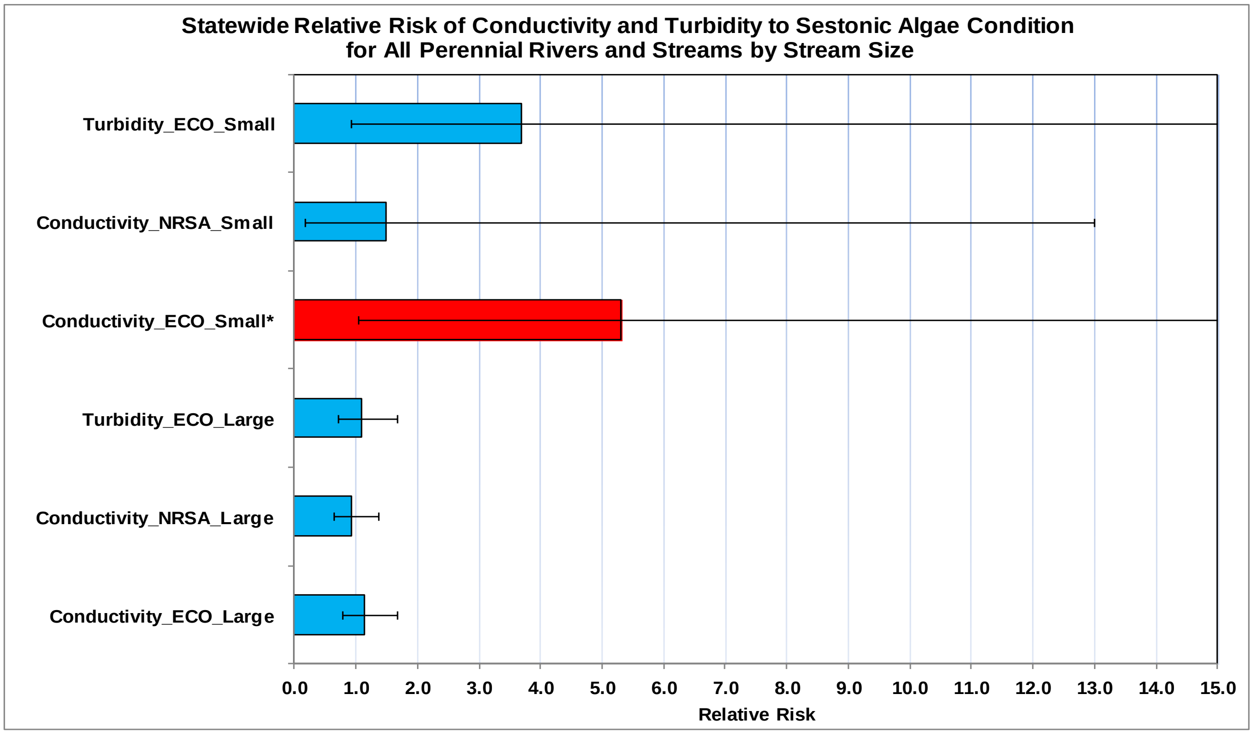

Figure 45. Relative risk of conductivity and turbidity stressors affecting poor sestonic algae condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

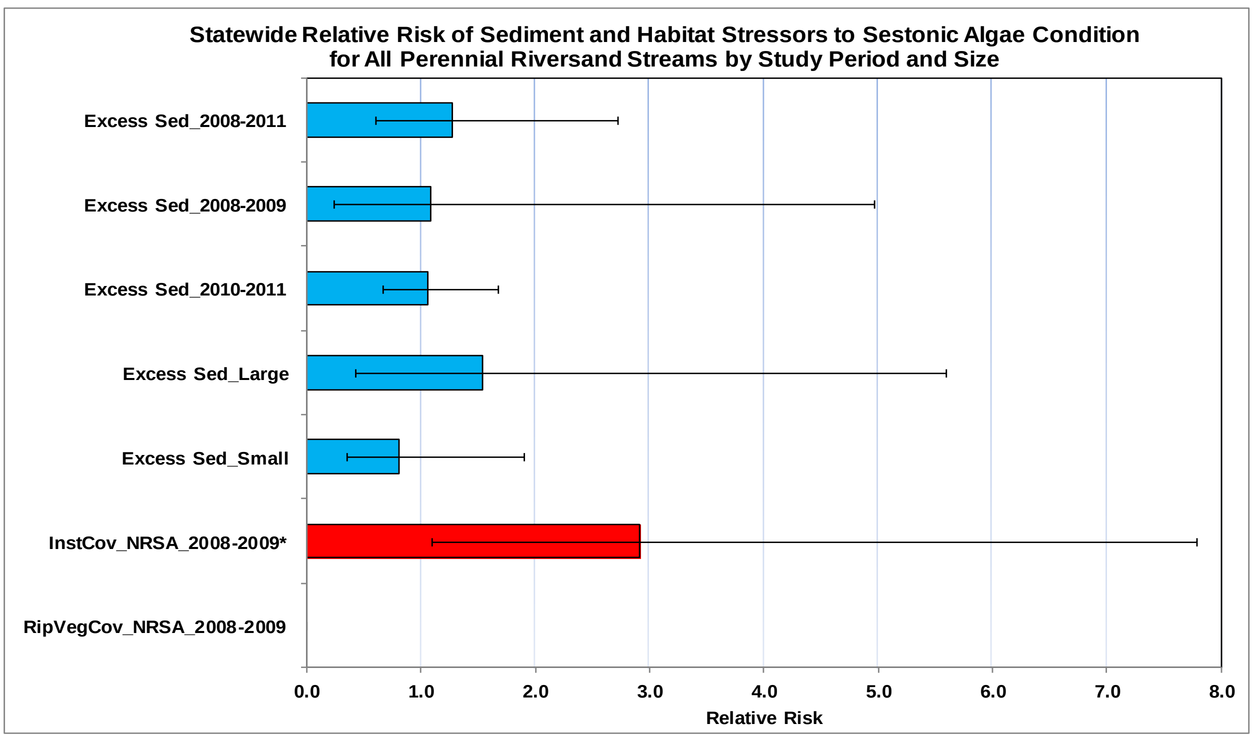

Figure 46. Relative risk of sediment and habitat stressors affecting poor sestonic algae condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

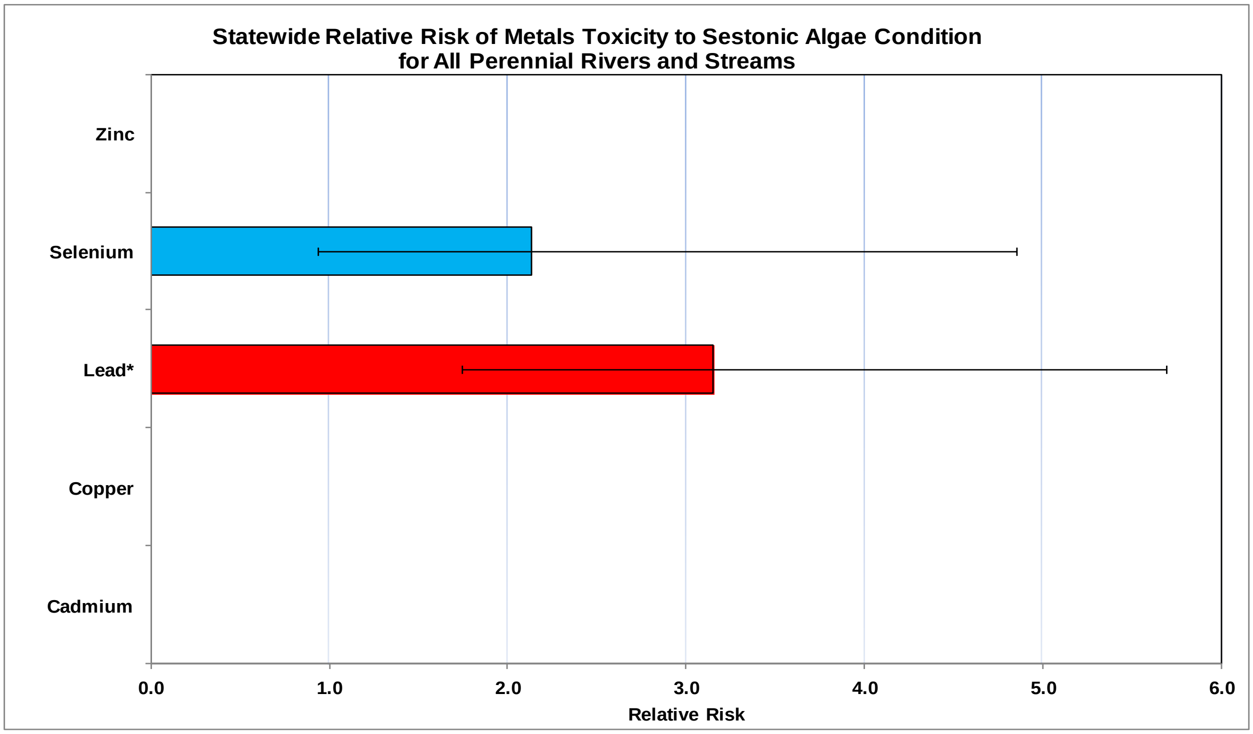

Figure 47. Relative risk of metal toxicity stressors affecting poor sestonic algae condition by waterbody size. (upper/lower bounds represent a 95% CI) (* = significant RR)

Oklahoma's Integrated Water Quality Report

Oklahoma's environmental agencies gather and assess data across the state for a wide variety of biological, chemical, and physical water quality indicators. One purpose of these data collections is to meet federal Clean Water Act requirements to compile a list of impaired waterbodies and determine the condition of all of these waters. These reports are compiled to the biannual Oklahoma Water Quality Assessment Integrated Report (ODEQ, 2010).

The current study benefits this report in several ways. First, this report marks Oklahoma's second and third statistically based assessments of the condition of Oklahoma's lotic waters. The OWRB recommends that this report be adopted into the 305(b) section of the 2012 or 2014 integrated report. Included graphics can be used to show overall statewide and regional condition. Second, individual lotic waterbodies not yet included in Oklahoma's Integrated Report (ODEQ, 2010) now have some level of assessment. The OWRB regularly submits waters for inclusion on Oklahoma's 303(d) list, and will do so again in October 2013. As a part of OWRB's submission, waterbodies assessed as part of this study will be included for consideration as not only category 5 (impaired), but as category 3 (not impaired for some uses). Because of assessment rules housed in Oklahoma's Continuing Planning Process (CPP) (ODEQ, 2012) and USAP (OWRB, 2012b), certain water quality parameters will not be included as part of the assessment. Most of Oklahoma's assessment protocols require that certain data requirements be met including the number of samples required to make an assessment determination. Protocols were developed to either assess short-term or long-term exposure. Short-term exposure protocols are written as percent exceedances, with typically a minimum of ten samples required. Long-term exposure protocols are based upon some measure of central tendency, but typically require a minimum number of samples to calculate the applicable descriptive statistic. Some exceptions to these rules include biological assessments, application of the sediment criteria, and a single sample maximum of 200 mg/m^3 for benthic chlorophyll-a. All other parameters included in this study will not be included in assessments for the impaired waters list but will be made publicly available in the event that another entity can include the data in their assessment. To ensure inclusion of relevant data, stations will be placed in the most current version of the OWRB Assessment Workbook (OWRB 2013c), which is not only used to assess waters for the Oklahoma Integrated Report but for the OWRB's Beneficial Use Monitoring Program (OWRB, 2013a)

Differences in Indicator/Stressor Levels

The current study allows for unique analysis between both study periods and waterbody size. Differences in poor condition of both indicators and stressors are presented in Table 10. The analysis simply compares the differences in percent of total miles in poor condition, and establishes significant difference between periods or size if the 95% confidence interval does not overlap the calculated percentage of the other subcategory. For example, for fish, the confidence intervals of period percentages overlap but do not overlap the calculated percentage. Additionally, the arrows in the trend column merely indicate the direction of a potential trend.

For indicators, both fish and macroinvertebrates demonstrate a downward trend in poor condition between study periods, with only the fish having a significant downward trend. Conversely, both algal indicators show an upward trend, with only the benthic algae trend having significance. Likewise, all but one of the total phosphorus stressors shows an upward trend between the two study periods, with only turbidity and sediment having a significant trend. Notably, environmental conditions, particularly drought, became more acute in 2010-2011, and high water was an issue during a portion of the 2009 index period. Otherwise, no other notable differences exist between the two periods, except the MMI used to analyze to macroinvertebrates, which could account for the difference in poor condition between the two periods. Lastly, when comparing large to small waterbodies, all indicators and stressors have a larger percentage of large river miles in poor condition that small river miles. And, with the exception of sediment, all differences are significant. Likely, this exists for several reasons. First, larger rivers and streams carry much heavier pollutant loads because they have a much larger area of input. Second, the development and refinement of reference condition, metrics, and stressor criteria/screening limits need continued development at both ecoregion and size scales. Data exists to perform these tasks and would eliminate much of the potential noise that is present in current assessments.

Table 10. The percentage of indicators and stressors in poor condition compared between study periods, as well as large and small waterbodies. Arrows show direction of potential trend (** = significant at alpha of 0.95)

Indicator/Stressor	2008-09 %Poor	2010-11 %Poor	Trend	Large %Poor	Small %Poor	Change
Fish	43.9%	21.7%	↓**	50.1%	30.4%	**
Macroinvertebrate	40.6%	25.7%	↓	62.3%	24.7%	**
Benthic Algae	3.7%	21.3%	↑**	21.7%	5.9%	**
Sestonic Algae	18.2%	28.3%	↑	60.6%	6.8%	**
Conductivity_ECO	10.6%	21.4%	↑	38.5%	5.5%	**
Conductivity_NRSA	16.7%	22.7%	↑	55.0%	5.1%	**
TN_ECO	23.4%	37.5%	↑	40.3%	24.1%	**
TN_NRSA	12.2%	22.3%	↑	31.3%	10.1%	**
TP_ECO	40.7%	36.9%	↓	73.8%	26.2%	**
TP_NRSA	31.0%	40.1%	↑	76.4%	18.3%	**
Turbidity_ECO	11.5%	26.6%	↑**	36.9%	9.5%	**
Sediment	15.8%	51.3%	↑**	34.9%	26.2%	NS

Attributable Risk

To determine the actual affect a stressor has on a particular biological indicator, relative risk analyses were made for each stressor-indicator pair and presented in the results section of this report. However, is there a way to determine how much affect a proportional reduction in a stressor would have on the incidence of poor condition in an indicator? Attributable risk provides an elimination scenario to investigate this relationship and potential beneficial outcomes of reduction (Sickle and Paulsen, 2008). Although assailable assumptions are made about causality and the analysis requires elimination of the stressor, it is still a useful extension of the stressor extent and risk models already used in probability assessments. As reported in the draft NRSA report:

> "Attributable risk represents the magnitude or importance of a potential stressor and can be used to help rank and set priorities for policymakers and managers. Attributable risk is derived by combining relative extent and relative risk into a single number for purposes of ranking. Conceptually, attributable risk provides an estimate of the proportion of poor biological conditions that could be reduced if high levels of a particular stressor were eliminated. This risk number is presented in terms of the percent of length that could be improved" (USEPA, 2013).

The results of attributable risk for the current Oklahoma studies are provided in Figures 49-52. In order to provide a meaningful analysis, an assumption was made that if relative risk was not significant, then calculating of an elimination scenario was not meaningful. Therefore, pollutant elimination analyses were only performed where stressor/indicator relative risk was significant. Confidence intervals were also calculated for each risk analysis, and significant potential reduction only exists where the upper confidence bound does not equal the original percent in poor condition. For example, in Figure 49, an elimination of turbidity could reduce poor condition for fish in large rivers by approximately 10%. However, upper confidence bound is not lower than the original percentage in poor condition, so the potential reduction is effectively not different from “0”.

Notably, for fish, elimination of sediment in large rivers could create a significant reduction of poor condition in fish as could reduction in conductivity (Figure 49). For macroinvertebrates, elimination of both total phosphorus and total nitrogen could have a significant effect on poor condition (Figure 50). The elimination of phosphorus in small streams results in a nearly 14% lowering of the percent of miles in poor condition. As with fish, the elimination of conductivity is significant in some scenarios. Sestonic algal condition shows potential promise with a variety of pollutant elimination scenarios (Figure 52). Turbidity, conductivity, and nutrients all show some significant results. Of particular interest, many of the total phosphorus measures show significant potential reduction in sestonic algal growth. For example, in large rivers, the elimination of phosphorus would reduce the percent of river miles in poor condition by greater than 25 to 40%. There is no significant pollutant elimination scenarios related to benthic algae condition (Figure (51).

Interestingly, the elimination of conductivity is consistently significant in reducing the prevalence of poor indicator condition. Because of Oklahoma’s significant conductivity gradient, this is to be expected. However, it is yet another indication of the need for refinement and further regionalization of reference condition and biological criteria, as well as the potential effect of dewatering and drought in alluvial systems. Likewise, the potential that the elimination of phosphorus would have on biological condition is prevalent throughout the analysis, regardless of study period, waterbody size, or screening limit source.

Future Plans

In terms of monitoring, probabilistic design has been completely integrated into both the OWRB and OCC monitoring programs (OWRB, 2012d). The OWRB is currently participating in the 2013-2014 National Rivers and Streams Assessment (NRSA) and will use data from it to provide an update to the current report. Also, the fourth two-year statewide study will begin in 2015 (OWRB, 2013b). Substantive changes to the program will include: 1) use of the NRSA protocols for large Wadeable and non-wadeable waterbodies, 2) use of NRSA habitat protocols for wadeable streams in concert with the current RBP habitat protocol, 3) inclusion of a second winter macroinvertebrate index period, 4) development of a periphyton taxonomic assemblage, 5) assessments at aggregated ecoregion scales used in the 2005-2007 assessment (OWRB, 2009), and 6) change/trend analyses through the use of revisit sites. Dependent upon future funding, additional plans are also in the works for future regionally based studies, similar to the Illinois River Basin Project (OWRB, 2010a).

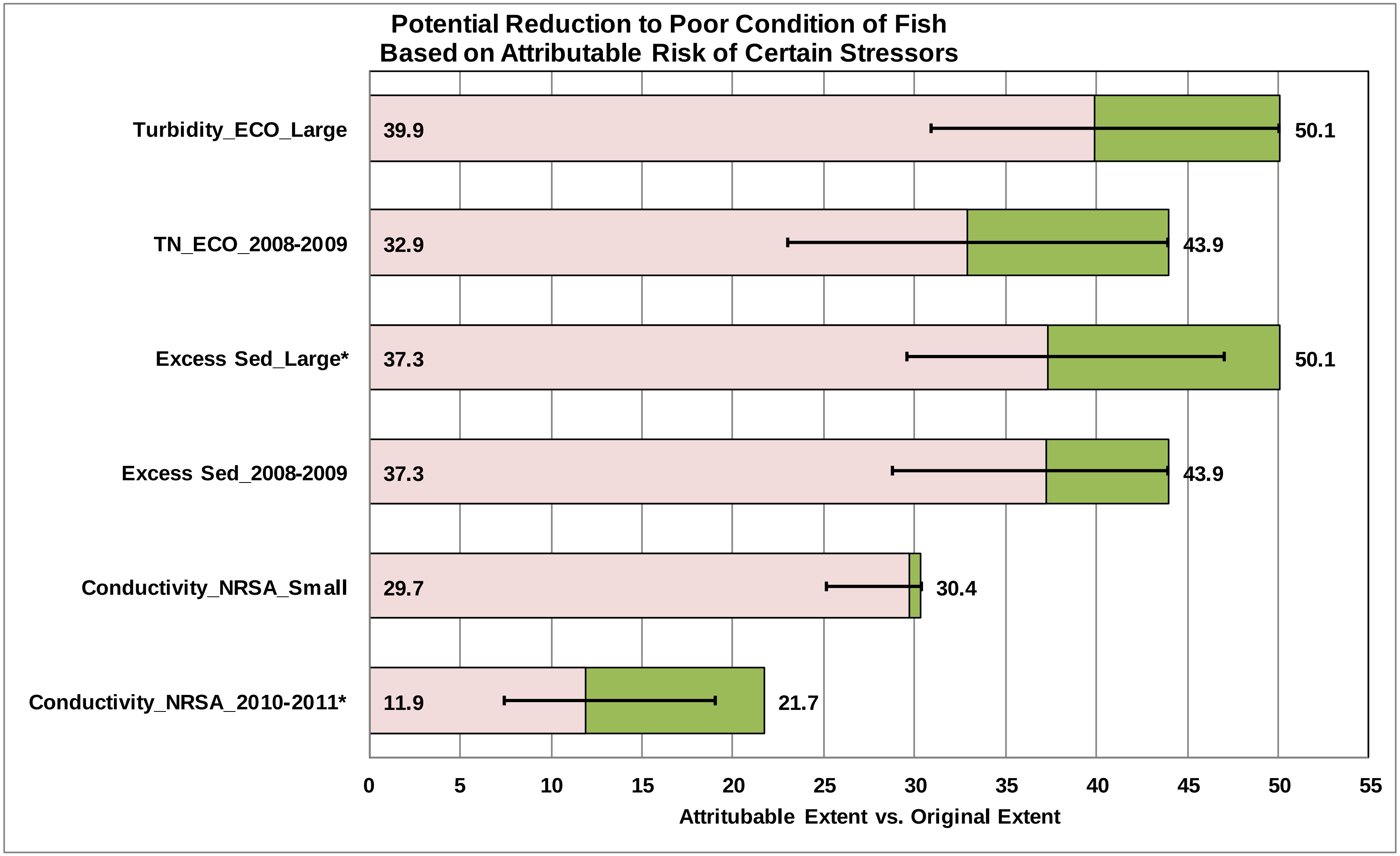

Figure 48. Potential reduction to poor condition of fish based on the attributable risk of stressors having significant relative risk. (upper/lower bounds represent a 95% confidence interval-CI)

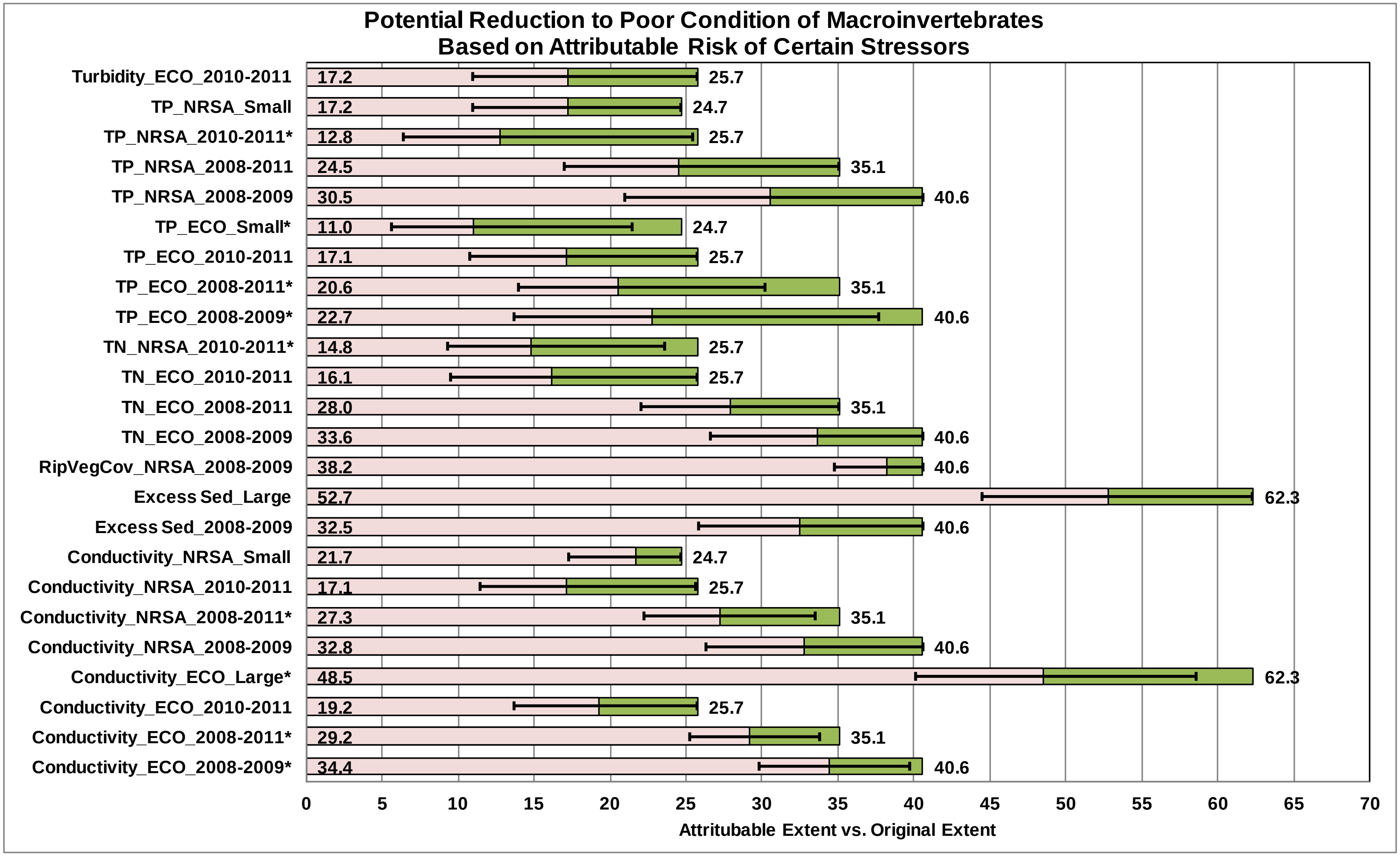

Figure 49. Potential reduction to poor condition of macroinvertebrates based on the attributable risk of stressors having significant relative risk. (upper/lower bounds represent a 95% confidence interval-CI)

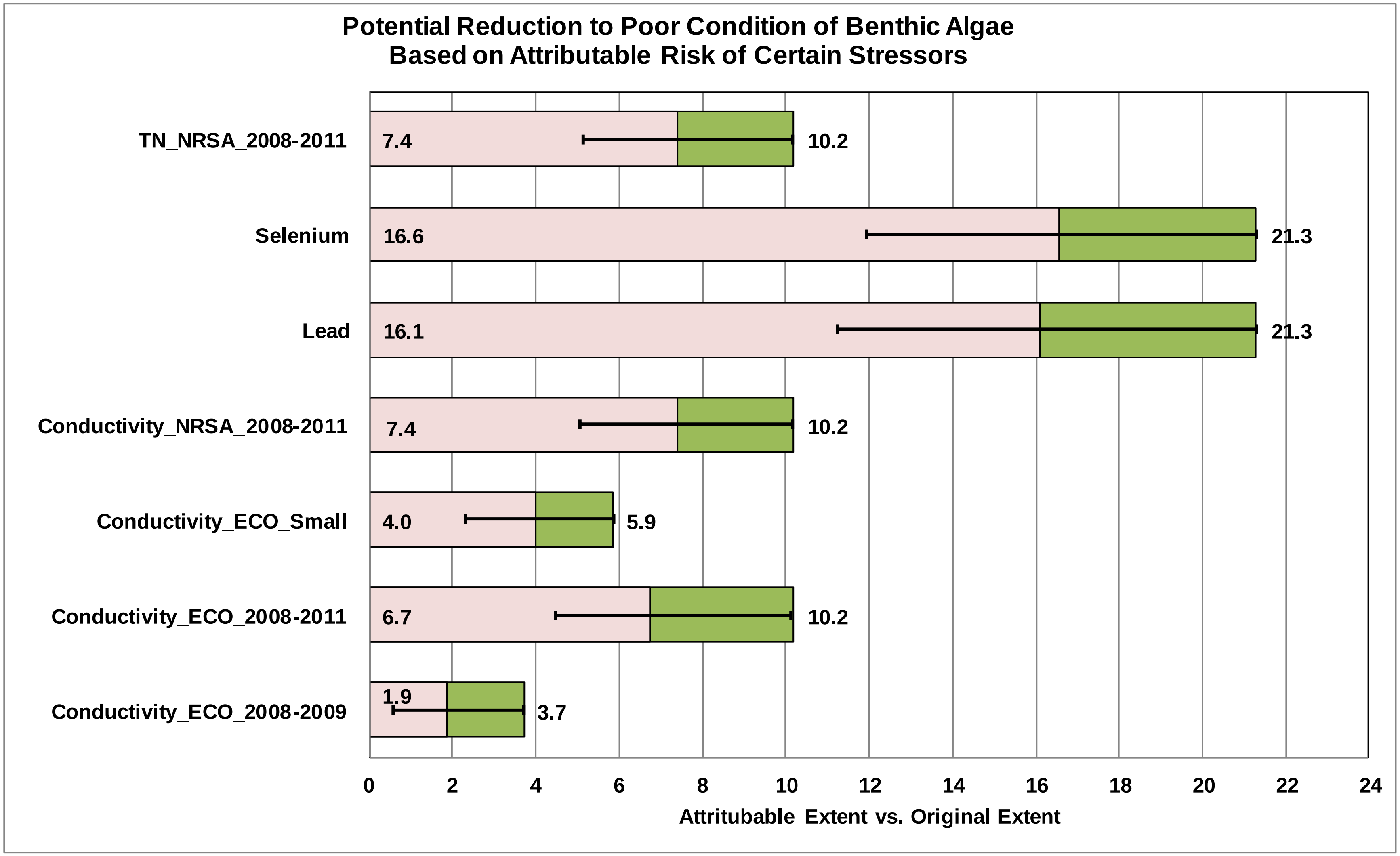

Figure 50. Potential reduction to poor condition of benthic algae based on the attributable risk of stressors having significant relative risk. (upper/lower bounds represent a 95% confidence interval-CI)

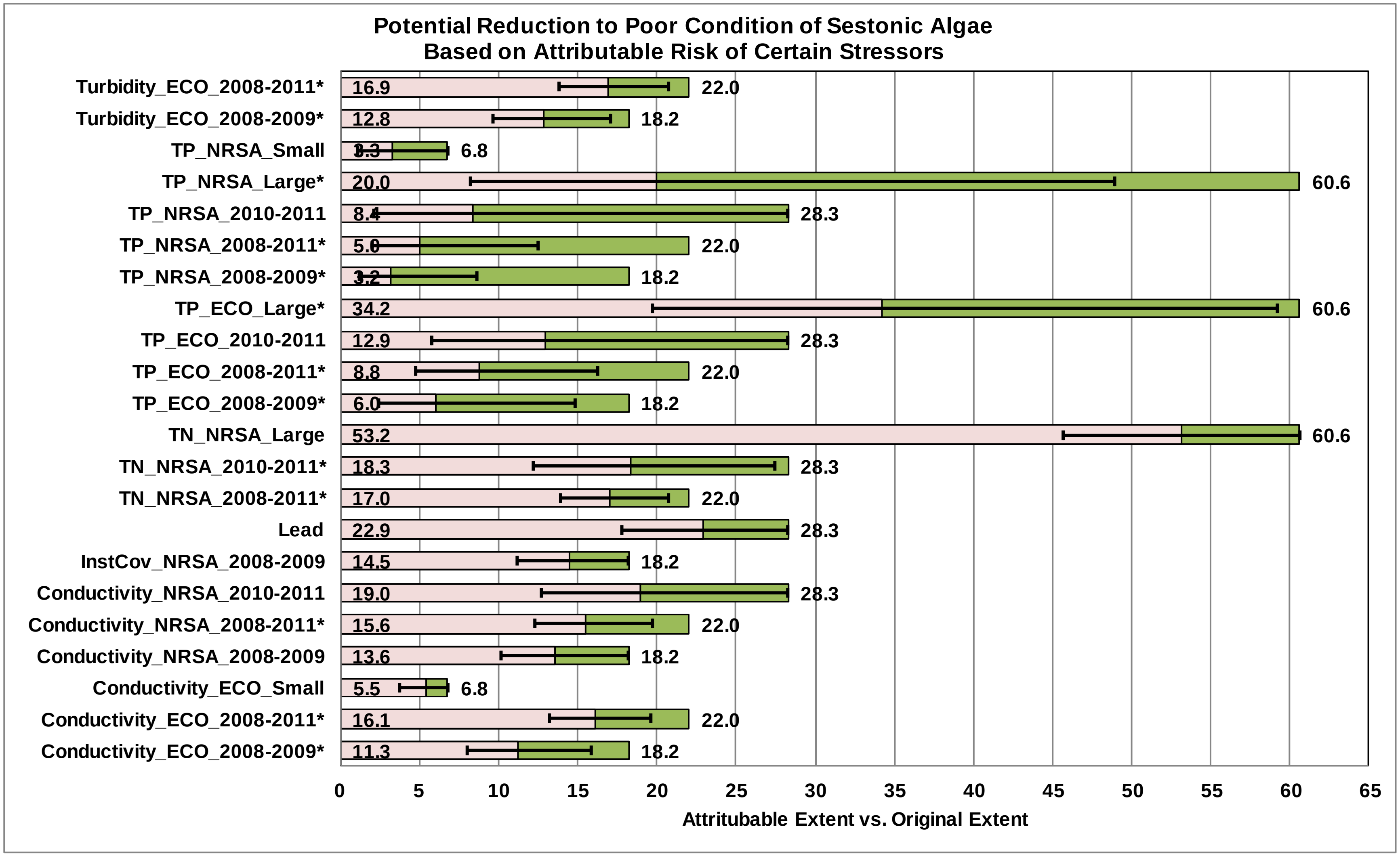

Figure 51. Potential reduction to poor condition of sestonic algae based on the attributable risk of stressors having significant relative risk. (upper/lower bounds represent a 95% confidence interval-CI)

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Appendix G – Response to Public Comments

Comments were received from:

(a) Marla Peek, Oklahoma Farm Bureau (OKFB)
(b) Larry Cofer, Oklahoma Dept. of Wildlife Conservation (ODWC)
(c) Oklahoma Water Resources Board (OWRB)
(d) Shelly Morgan, Lake Texoma Association (LTA)
(e) U.S. EPA Region 6 (EPA)
(f) Oklahoma DEQ Staff (DEQ)

This key is used in the summary of comments below to identify the commenter. DEQ responses to comments are indicated in *italics*.

1. (OKFB) Is the probabilistic monitoring used for actual waterbody impairment determination or is it just used to predict trends?

   DEQ Response: *The probabilistic study results are not used for impairment determinations. The study results are only used to present an estimate of the overall condition of the waters in the state and to indicate water quality trends. The water quality data collected for a specific monitoring site is only used to make assessment determinations on that specific waterbody. No changes were made as a result of this comment.*

2. (OKFB) On the 303(d) report, is there somewhere it is reported the date and type of monitoring data that was used to put it on the list? I saw that for the 305(b) but not the 303(d).

   DEQ Response: *The date and type of monitoring data used for assessment is not provided for the 303(d) list. The dates on the 305(b) list are a projected date for the future monitoring activities on the specified waterbody. The column heading in Appendix B has been changed to "Next Monitoring Date" to provide clarification.*

3. (OKFB) On page 8 of the synopsis, 3rd paragraph, last sentence it says, "Historical data and assessments (prior to May 1, 2008) were only used when insufficient current data was available to assess a waterbody." Any idea how old the oldest data is that was used to make water quality impairment determinations and how can that data be located?

   DEQ Response: *The oldest data used in the 2014 Integrated Report is from 1999. The only way to determine the age of data used for assessments is to look at the monitoring data for each individual waterbody. We are currently working on a project to develop a water quality database to query this type of information. No changes were made to the report as a result of this comment.*

4. (OKFB) Is there any explanation of why the OWRB and the Conservation Commission don't use the same monitoring protocol for fish and bug sampling?

   DEQ Response: *The Oklahoma Conservation Commission and the Oklahoma Water Resources Board use the same biological assessment protocols with the exception of reach lengths for large wadeable, as well as boatable rivers. OWRB uses longer reach lengths to adjust for the larger streams. Due to their larger size, these systems require a method of setting variable reach lengths to account for waterbody size. No change was made as a result of this comment.*

5. (ODWC) Can you tell me what this means: "Wildlife other than waterfowl" among the potential pollution sources?

   DEQ Response: *"Wildlife other than waterfowl" refers to waste produced by animals other than waterfowl, domesticated animals, and livestock.*

6. (OWRB) The Lower Illinois River (segment number OK121700010010_00) needs to be listed for Dissolved Oxygen under cause category 5a. The segment has been monitored at multiple locations from 2012-2014 with multiple occurrences of DO below 2.0 mg/L.

   DEQ Response: *The requested change has been made to segment OK121700010010_00 in the final version of the 2014 Integrated Report submitted to EPA. This segment has been added to the 2014 303(d) list for Dissolved Oxygen.*

7. (LTA) Please see the attached comments and recommendations for the 2014 Water Quality Integrated Report on behalf of the Lake Texoma Association. (This letter is included in Appendix G.)

   DEQ Response: *Thank you for your comments and concerns regarding the Upper Red River, Washita River, and Lake Texoma watersheds. These comments and concerns will be shared with the Oklahoma Water Resources Board, the Oklahoma Conservation Commission, and other agencies involved with water quality standards, the NPS program, and TMDL development. No changes to the report were made as a result of these comments.*

8. (EPA) We request that the delisting justifications provided for minerals identify the mean of collected samples, the yearly mean standard being applied, the number of exceedances of the sample standard, and the sample standard being applied. This will help us (and the interested public) identify which criteria in Chapter 45, Appendix F are being used and the observed findings. This was done for a few waters, including that provided for sulfates in Red River (OK311100010190_20) on page 8 of the delisting justification document. We request that this information be provided for the following waters/pollutants:

   a) Delaware Creek (OK121300010150_00) - Chloride
   b) Little Cabin Creek (OK121600060080_00) - Total Dissolved Solids
   c) Spring Creek (OK310830040010_00) - Total Dissolved Solids
   d) Dry Creek (OK311200000080_00) - Chloride
   e) Sweetwater Creek (OK311510020120_00) - Total Dissolved Solids
   f) Fish Creek (OK311800000130_00) - Chloride **and** Total Dissolved Solids
   g) Crooked Oak Creek (OK520520000150_00) Total Dissolved Solids

   DEQ Response: *The delisting justifications in Appendix D of the Integrated Report have been updated to provide the requested information.*

9. (EPA) The following waters are said to be attaining WQS based on criteria calculated for Station 1505 on Segment 621000 in Appendix F. Shouldn't have criteria from Segment 621010 been used. (Arkansas River, Salt Fork – OK621010010010_00)

   DEQ Response: *This segment of Arkansas River, Salt Fork is located in both Segment 621000 and Segment 621010. The monitoring station used for assessment is located below the Great Salt Plains Lake dam is Segment 621000. Since the monitoring site is the same location as Station 1505, the criteria published in Appendix F for Station 1505 was used for assessment. No changes were made as a result of this comment.*

10. (EPA) Please provide a rationale for delisting Willow Creek (OK520610010080_00) for turbidity. The draft delisting justification table includes an entry for E. coli, which was not listed as a pollutant in this water in 2012, but none is provided for turbidity.

    DEQ Response: *The delisting justification for Willow Creek (OK520610010080_00) has been updated in Appendix D of the 2014 Integrated Report. Nineteen turbidity samples were collected during the assessment period with no samples exceeding the criterion.*

11. (EPA) We request that ODEQ provide Region 6 a list of any waters added to, or removed from, the finalized list that is ultimately sent to EPA after all public comments are considered. This will allow us to focus only on those waters moved on or off the list in our final review and to update our own internal list tracking system.

    DEQ Response: *The requested information will be provided to EPA Region 6 at the time the final version of the 2014 Integrated Report is submitted to EPA.*

12. (DEQ) During review of data for permit applications and TMDL development, DEQ staff noticed the following waterbody assessments needing corrections:

    OK121600040060_00 Tar Creek – This segment should be delisted for Enterococcus. The geometric mean of the most recent 11 samples is 112.6 cfu/mL, which is below the SBCR criterion for Enterococcus of 165 cfu/mL..

    OK410200010200_00 Little River – The turbidity samples for this segment were collected in a mixing zone. These samples are not valid for assessment.

    DEQ Response: *These changes have been made to the final version of the 2014 Integrated Report.*

Lake Texoma Association Comment Letter – Page 1

Joe A. Long, Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677, Oklahoma City, OK 73101-1677
E-mail: Water.Comments@deq.ok.gov

January 22, 2015

SUBJECT: Draft Water Quality 2014 Integrated Report

Thank you for the opportunity to provide comments and recommendation regarding the Draft 2014 Integrated Water Quality report. We understand the focus of the draft report was on assessment and reporting the status of state water bodies. We appreciate the report and actions to inform and protect the public including swimming and fish communities as well as public water supplies for these areas.

We are also concerned about the "cumulative effects" of excessive pollution and nutrients such as but not limited to phosphorous and nitrogen that are being generated throughout the total Red River River Basin and watershed by point and non-point sources of pollution. As you are aware, Lake Texoma receives a significant amount of the "cumulative pollution" flowing from the 48,000 square mile watershed consisting of the Upper Red River, Washita River and the Lake Texoma watersheds. The TMDL's may be evaluated and set to meet segment standards but when pollutants from multiple segments and sources are added it often results in significantly impaired main bodies of lakes and streams. The problems are worsened due to lack of monitoring and missing data including phosphorous on several segments of the Lake Texoma watershed including the lake.

Most professionals and several studies have documented excessive nutrients in Lake Texoma and its inflows which are causing Harmful Alga Blooms (HAB's) such as blue-green and possibly golden algae and resultant critical public health, environmental and economic problems. Some of the Lake Texoma waters will be increasingly impaired for recreation, fishing, swimming and public water supplies during certain conditions.

Recent major toxic microcystin blue green algae issues in Lake Erie and Toledo, Ohio water supply and increasing problems in many other U.S lakes requires more effective actions by federal, state and local governments, businesses and individuals according to a Great Lakes Group and professionals. We observe what occurs when effective action is delayed too long and need to be proactive within the Upper Red River and Lake Texoma Watershed.

Additional comments and recommendations are attached.

Sincerely,

Shelly Morgan

Executive Director, Lake Texoma Association

Lake Texoma Association Comment Letter – Page 2

Attachment - Oklahoma Draft Water Quality 2014 Integrated Report Comments and Recommendations

Monitoring and testing of watershed segments

We understand and appreciate the reasons for monitoring and testing of watershed segments. But the *cumulative effects* should be evaluated and considered also in developing a systems approach to overall and segment TMDL's in Oklahoma and Texas areas of the Red River watershed. Point sources are often evaluated at the end of the discharge pipe instead of also including impacts on the receiving water body *and watershed*. Non-point source TMDL's are also focused on segments.

The current Draft Oklahoma Draft Water Quality 2014 Integrated Report describing the Red River Basin including Lake Texoma does not include measurement and evaluation of numerous segments and areas including phosphorous which is one of the major underlying causes of Harmful Alga Blooms such as blue green algae.

Recommendations:

- Significantly increase 303(d) Impaired Water Bodies and 305(b) Water Quality Inventory Report monitoring, assessment and reporting of Lake Texoma and Red River Basin segments.
- *Cumulative effects* should be evaluated and considered also in developing a systems approach to overall and segment TMDL's in Oklahoma and Texas areas of the Red River watershed including Lake Texoma.
- TMDL standards should be established, evaluated, and reported for the cumulative impacts of multiple segments on main bodies of lakes and streams.
- Major lake and stream data should also be summarized to improve and simplify public and key official information and understanding of 303(d) Impaired Water Bodies and the 305(b) Water Quality Inventory Report. In other words, what does this major lake or stream data mean and what can be done to improve conditions?

Expert Workshop: Nutrient Enrichment Indicators in Streams

"For the past 15 years, the U.S. Environmental Protection Agency (EPA) has encouraged states and tribes to adopt numeric criteria into water quality standards to protect waters from the widespread and growing problem of nutrient pollution. Excess nutrients (nitrogen and phosphorus) cause algal growth that degrades aquatic communities and cause fish kills, degrades beaches and shorelines with nuisance algae, and adversely affect human health from algal toxins and trihalomethane formation in drinking water. State progress toward adopting numeric nutrient criteria has been limited in flowing waters in part because of the technical challenge of developing numeric nutrient criteria when multiple factors (e.g., light, flow) can influence responses (e.g., algal biomass) and confound nutrient response models. Such conditions can make it difficult to predict nitrogen and phosphorus concentrations that adversely affect aquatic

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life. One approach to overcome such challenges and to reduce uncertainty when implementing numeric criteria is to integrate biological response indicators with numeric nutrient criteria in a decisional framework.
This workshop proceedings document captures the insight of the technical experts. This information will be beneficial in efforts to provide technical support for states on the derivation and implementation of numeric nutrient criteria in flowing waters."
The following content describes the primary workshop findings.
http://www2.epa.gov/nutrient-policy-data/expert-workshop-nutrient-enrichment-indicators-streams
Recommendation: Significantly increase adoption of state numeric criteria into water quality standards to protect waters from the widespread and growing problem of nutrient pollution.

Excessive Nutrients

Recent major blue green toxic algae issues in the Lake Erie water supply and increasing problems in many other U.S lakes requires more effective actions by federal, state and local governments, businesses and individuals according to a Great Lakes Group and professionals. Great Lakes concerns and proposals are to significantly reduce different types of nutrients such as phosphorous. The Great Lakes Group is focusing on Alga toxins such as microcystin instead of cell counts/ml. *We cannot wait until waters are significantly impaired to monitor and assess nutrients in all contributing segments, streams and lakes and develop effective reduction plans. At the present time, Oklahoma state standards for phosphorous are only established for Oklahoma Scenic Rivers (page 56 of the 2014 Integrated Report).*

We note also that Phosphorous is only identified under the Aesthetics category on pages 55-56 of the Oklahoma Draft Water Quality 2014 Integrated Report.

Studies have indicated excessive phosphorous entering the Red and Washita River and Lake Texoma watersheds. Excessive phosphorous levels certainly cause impairment of water quality and public use for recreation, swimming, and fishing as experienced at Lake Texoma and other lakes in 2011. In addition, excessive nutrients can increase causing harmful alga blooms and seriously impairing essential public water supplies. For example in 2014 Toledo, Ohio city water supplies had to be temporarily shut down due to a major algae bloom *and* excessive microcystin in water samples.

It would be very helpful to conduct additional studies to determine the factual scope of the problem, possible sources and recommended remedial actions. "A TMDL document uses scientific data collection and analysis to determine the amount and source of each pollutant entering the system, and allocates pollutant loads to each source at levels that would ultimately restore water quality to meet clean water standards. A TMDL is the amount of each pollutant a waterway can receive and not violate water quality standards. A TMDL takes into account the pollution from all sources."

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We also note that caution is required when measuring, evaluating, establishing TMDL limits and controlling phosphorous and other nutrients entering the Lake Texoma watershed. Phosphorous and nutrient abatement and reduction programs must be time phased to balance water quality improvements and positive/negative economic impacts. Some of the necessary studies, plans and improvements will take significant time and federal, state and local funds as well as involvement of stakeholders.

Fishery biologists advise that the end objective should be to reduce the Lake Texoma nutrients to acceptable levels. Elimination of all or most nutrients can harm the productivity of the overall aquatic community and food chain in Lake Texoma since it is an older lake established in the 1940's.

Recommendations:

- **Establish state** TMDL water quality standards for nutrients and phosphorous from major point-source discharge facilities such as wastewater treatment plants and city stormwater runoff and non-point sources such as septic systems and agricultural operations. Start with the Lake Texoma watershed.
- Consideration should be given to incrementally increasing the TMDL limits on phosphorous over time.

Oklahoma Nonpoint Source (NPS) Control Program

(Reference page 24-27 of the Oklahoma Draft Water Quality 2014 Integrated Report.)

"The NPS program is a cooperative effort of state, federal and local agencies. Some of these agencies include OCC, DEQ, ODAFF, OWRB, Corp. Comm., local conservation districts, and local landowners. The management programs identify the state, federal and local agencies with responsibilities relative to the nonpoint source of pollution in question and outline a plan of action to reduce or eliminate those sources."

"Current NPS projects are ongoing in the watersheds of Lake Eucha, Illinois River, Grand Lake, the North Canadian River between Canton Lake and Lake Overholser, and Lake Thunderbird in cooperation with several agencies including the Natural Resources Conservation Service (NRCS), ODAFF, OSRC, local conservation districts, and state universities." *We note that most if not all of these streams and lakes have also experienced significant Harmful Alga Blooms.*

Recommendation: Add Lake Texoma to the state Nonpoint Source (NPS) Control Program.

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Additional Notes and Information for Upper and Lower Red River, Lake Texoma and Water Quality

The Draft 2014 Integrated Report and related Appendices can be found on-line at: http://www.deq.state.ok.us/wqdnew/305b_303d/index.html

Report Appendix A - Segment Numbering

- Lake Texoma 6-digit Planning Basin (311100)
- Upper Red River 6-digit Basin (311600, 311310, 311200, 311100)
- Oklahoma 8-digit Planning Basins 3 (Upper Red River) and 4 (Lower Red River)

Appendix B

- Upper Red River including Lake Texoma start on page 70 of 94.
- Most segments are incomplete or not assessed.
- Some example areas are non-attainment.
    -
    - Texoma Lake, Washita River, Lower Arm page 52
    - Washita River page 56
    - Texoma Lake, Upper Red River Arm page 70
    - Red River page 71

Appendix F Probabilistic Monitoring for Streams and Rivers

- Provides information on fish and microvertebrates.

The Federal Clean Water Act

The Federal Clean Water Act requires states to develop Water Quality Standards (WQS) Based on the WQS, DEQ develops plans with goals and pollution control targets for improving water quality where minimum standards are not met. The waterbodies where these minimum standards are not met are considered to be "impaired. Impaired waterbodies are listed on what is known as the 303(d) list, which refers to section 303(d) of the Clean Water Act. The plan to improve water quality for impaired waterbodies is accomplished by establishing limits known as Total Maximum Daily Loads (TMDLs) for each pollutant exceeding the standards. TMDLs set levels for pollutants that allow waterbodies to achieve their WQS for beneficial uses. Beneficial uses include water for drinking, recreation, aesthetics, irrigation, fishing, and swimming.

The reports include one of the beneficial uses, Primary Body Contact Recreation (PBCR) which includes swimming. The foci of this beneficial use are excess pathogens. The other beneficial use evaluated in this study was the Warm Water Aquatic Community (WWAC) subcategory of Fish and Wildlife Propagation. The WWAC subcategory evaluates whether the water quality and habitat are adequate to support a climax (fully-developed) fish community. One of the threats to the fish community is turbidity.

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A TMDL document uses scientific data collection and analysis to determine the amount and source of each pollutant entering the system, and allocates pollutant loads to each source at levels that would ultimately restore water quality to meet clean water standards. A TMDL is the amount of each pollutant a waterway can receive and not violate water quality standards. A TMDL takes into account the pollution from all sources.

An important part of TMDL analysis is the identification of individual sources of pollutants in the watershed that affect pathogens and the amount of loading contributed by each source. Under the Clean Water Act, sources are classified as either point or non-point sources.

Previous 2012 Red River Study Excerpt - Conclusions and Recommendations

The Red River Study Area contains waterbodies that are in violation of Oklahoma Water Quality Standards with respect to pathogens and/or turbidity. The TMDL calculates the reduction in bacteria and turbidity that would be needed in order for these streams to be in compliance with Oklahoma's WQS. This was done using load duration curves. The calculations include present and future sources as well as a margin of safety.

After re-evaluating both bacteria and turbidity data following Oklahoma's assessment protocol, 21 TMDLs were developed for the 11 streams in the Red River Study Area. Most of the pathogens come from non-point sources, though it is not known which sources these are specifically from without additional study. The health effects of pathogens should be a concern for the public who uses these waterways for activities such as swimming, wading, or boating. This is because some waterborne pathogenic bacteria can cause serious human illness or disease.

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