



STATE OF ARKANSAS Department of Finance and Administration OFFICE OF BUDGET 1509 West Seventh Street, Suite 402 Post Office Box 3278 Little Rock, Arkansas 72203-3278 Phone: (501) 682-1941 Fax: (501) 682-1086 www.arkansas.gov/dfa

October 5, 2023

Senator Jonathan Dismang, Co-Chair Representative Frances Cavenaugh, Co-Chair Performance Evaluation & Expenditure Review Committee Arkansas Legislative Council State Capitol Building Little Rock, AR 72201

RE: FY 24 Infrastructure Investment & Jobs Act of 2021

Dear Co-Chairs:

Pursuant to Section 37 (01) of Act 796 of 2023, I am forwarding the attached Infrastructure and Investment and Jobs Act request(s) that have received my approval as Chief Fiscal Officer of the State.

- Arkansas Department of Transportation Federal-aid Highways, Highway Safety and Transit Programs \$280,000,000
- Department of Agriculture Natural Resources Division Drinking Water State Revolving Fund Program \$11,367,000
- Department of Agriculture Natural Resources Division Clean Water State Revolving Fund \$612,000
- Department of Energy & Environment Division of Environmental Quality Water Quality Management Planning \$157,476

Sincerely. James L. Hudson

James L. Hudso Secretary

Attachment(s)

INFRASTRUCTURE INVESTMENT & JOBS ACT OF 2021 APPROPRIATION AND PERSONNEL AUTHORIZATION REQUEST SECTION 37 OF ACT 796 OF 2023

Agency:	Arkansas Department of Transporations				Business Area Code:	0090
Program Title: Infrastructure Investment & Jobs					of 2021	
Granting Organ	nization:	Federal Funding			CFDA #:20.205	
Effective Date	of Authoriz	ation:	Beginning:	7/1/2023	Ending:	6/30/2024

Purpose of Grant / Reason for addition or change (include attachments as necessary to provide thorough information): An act to authorize funds for Federal-aid highways, highway safety and transit programs for other purposes.

Infrustructure Investment & Jobs Act Program Funding

			Continuation of Existing Program	m:
Func. Area: TRAN	Fund Code: FL	Fund Code: FII0900		X
Funds Center: AU8	Internal Order/WBS Element:	IIJAARDT	New Program:	

	Program Funding Amount
Regular Salaries	
Extra Help	
Personal Services Matching	
Operating Expenses	
Conference & Travel Expenses	
Professional Fees	
Capital Outlay	
Data Processing	
Grants and Aid (CI: 04)	
Other:	
590:00:46	 280,000,000
Total	\$ 280,000,000

Anticipated Duration of Federal Funds:		(Continual						
Positions to	he establ	lishod: (list	oosh positi	ion conceptativ	,	DFA IGS Stat Items request compliance wi IGS State Tech	te Technology ed for information th Technology P Innology Planning	Planning on technolo lans as sub g.	Date gy must be in mitted to DFA
Org Unit	Pers Area	Pers SubArea	Cost Center	Position Number	Cmnt Item	Position Title	Class Code	Grade	Line Item Maximum *

State funds will not be used to replace federal funds when such funds expire, unless appropriated by the General Assembly and authorized by the Governor.

Approved by: Cabinet Secretary/Agency Director Date

Robert Brech 10/01/23

Date

Office of Personnel Mgmt

Date

Office of Budget ds 9/6/23

ARKANSAS STATE HIGHWAY COMMISSION

DALTON A. "ALEC" FARMER, JR. CHAIRMAN JONESBORO

> PHILIP TALDO VICE CHAIRMAN SPRINGDALE

KEITH GIBSON FORT SMITH



P.O. Box 2261 • Little Rock, Arkansas 72203-2261 Phone (501) 569-2000 • Voice/TTY 711 • Fax (501) 569-2400 www.ARDOT.gov • www.IDriveArkansas.com MARIE HOLDER LITTLE ROCK

DAVID M. HAAK TEXARKANA

LORIE H. TUDOR, P.E. DIRECTOR

August 30, 2023

Jim Hudson, DFA Secretary Department of Finance and Administration 1509 West Seventh Street, Suite 401 Little Rock, AR 72203-3278

RE: Infrastructure Investment and Jobs Act Program Funding

Dear Secretary Hudson:

The Arkansas Department of Transportation is requesting appropriation under the Department of Finance and Administration's Disbursing Officer Act 796 of 2023, Section 37. We have included the request for the Third Quarter of the State Fiscal Year 2024. This request is detailed in the enclosures.

We respectfully request approval of these appropriations. We appreciate your consideration of this matter.

Sincerely

i H. Judon

Lorie H. Tudor, P.E. Director

c: Highway Commission Chief Engineer – Preconstruction Chief – Administration Assistant Chief Engineer – Program Delivery Assistant Chief – Administration Communications Fiscal Services Program Management DFA Office of Budget, Devin Shaw Arkansas Legislative Research, Billy Parrish

ARKANSAS PERFORMANCE BUDGETING & ACCOUNTABILITY SYSTEM Quarterly Appropriation Summary

Department

Arkansas Department of Transportation

Fund	Arkansas Departmen	t of Transportation				
	Expenditures					
Charter Title		January - March 2024 Request				
Infrastructure Investment & Jobs Act Program Funding Miscellaneous Commitment Item #46		280,000,000				
Grand Total	\$ -	\$ 280,000,000	\$ -			
Fund Sources		5				
Fund Balances						
Federal Funds		280,000,000				
Total Funding Excess Appro./(Funding)		280,000,000				
······································		\$ 280,000,000				

INFRASTRUCTURE INVESTMENT & JUBS ACT OF 2021 APPROPRIATION AND PERSONNEL AUTHORIZATION REQUEST SECTION 37 OF ACT 796 OF 2023

Agency: Arkansas	Department of Agri	culture - Natural Resour	ces Division	Business Area Code:	0455	
Program Title: AR Drinking Water State Revolving Fund FY22 Emerging Contaminants Bipartisan Infrastructure Law						
Granting Organization: U.S. Environmental		al Protection Agency		CFDA #: <u>66.468</u>		
Effective Date of Author	ization:	Beginning:	7/1/2023	Ending:	6/30/2024	

Purpose of Grant / Reason for addition or change (include attachments as necessary to provide thorough information): The Department is requesting \$11,367,000 for the purpose of assisting communities treating emerging contaminants in their drinking water systems. Contaminants include natural and manufactured substances. Funds received will be administered as forgivable loans through the Arkansas Drinking Water State Revolving Fund Program.

Infrustructure Investment & Jobs Act Program Funding

			Continuation of Existing Program	1:
Func. Area: COMM	Fund Code:	NEW	Change in Existing Program:	X
Funds Center: NEW	Internal Order/WBS Element:	NEW	New Program:	

	Program F	Program Funding Amount			
Regular Salaries					
Extra Help					
Personal Services Matching					
Operating Expenses					
Conference & Travel Expenses					
Professional Fees					
Capital Outlay					
Data Processing					
Grants and Aid (CI: 04)					
Other:		11,367,000			
Other:					
Total	\$	11,367,000			

Anticipated Duration of Federal Funds:

05/01/2023-06/30/2024

DFA IGS State Technology Planning Date Items requested for information technology must be in compliance with Technology Plans as submitted to DFA IGS State Technology Planning. * unclassified positions only

D.2

Positions to be established: (list each position separately)

Org	Pers	Pers	Cost	Position	Cmnt		Class		Line Item
Unit	Area	SubArea	Center	Number	Item	Position Title	Code	Grade	Maximum *
							8		

State funds will not be used to replace federal funds when such funds expire, unless appropriated by the General Assembly and authorized by the Governor.

Approved by:

New.mp	8-22-2023	Robert Brech	10/01/23		
Cabinet Secretary/Agency Director	Date	Office of Budget	Date	Office of Personnel Mgmt	Date
		01.			

5

Attachment 1 - Project Description

The purpose of this agreement is for a capitalization grant which provides funds for Arkansas's Drinking Water State Revolving Fund (DWSRF) program with the primary purpose to address emerging contaminants in drinking water with a focus on projects addressing perfluoroalkyl and polyfluoroalkyl substances (PFAS). Emerging contaminants refer to substances and microorganisms, including manufactured or naturally occurring physical, chemical, biological, radiological, or nuclear materials, which are known or anticipated in the environment, that may pose newly identified or re-emerging risks to human health, aguatic life, or the environment. These substances, microorganisms or materials can include many different types of natural or manufactured chemicals and substances - such as those in some compounds of personal care products, pharmaceuticals, industrial chemicals, pesticides, and microplastics. Section 1452 of the Safe Drinking Water Act (SDWA) authorizes Arkansas to utilize funds to further the health protection objectives of SDWA. Arkansas has submitted an Intended Use Plan (IUP) as part of the application package for this capitalization grant. This IUP contains a list of the capital projects that address emerging contaminants that may receive funding from this grant. The recipient may also use some of the funding for specific "set-asides" to provide technical assistance to small systems, program administration, state program management and other allowable uses. The benefits of this grant will be to capitalize the recipient's DWSRF with primary purpose to address emerging contaminants in drinking water with a focus on projects addressing PFAS. The Fund can then be used to increase technical, financial and managerial capacity of public water systems, and provide assurance of a cleaner and safer potable water supply by funding improvements to multiple water infrastructure projects. These public health benefits will be statewide.

The Arkansas Department of Agriculture - Arkansas Natural Resources Commission will be entering into Funding Agreements with communities/utilities as part of their Arkansas Drinking Water State Revolving Fund Program, and therefore considered subawards. However, these will be awarded as loans and not as subgrants.

INFRASTRUCTURE INVESTMENT & JUDS ACT OF 2021 APPROPRIATION AND PERSONNEL AUTHORIZATION REQUEST SECTION 37 OF ACT 796 OF 2023

Agency: <u>A</u>	rkansas	Department of Agri	iculture - Natural Resourc	es Division	Business Area Code:	0455
Program Title:	AR C	lean Water State R	evolving Fund Federal Fy	22 Bipartisan Infra	structure Law Emerging Cor	ntaminants Funding
Granting Organi	zation:	U.S. Environment	al Protection Agency		CFDA #: 66.458	
Effective Date of	f Authori	zation:	Beginning:	7/1/2023	Ending:	6/30/2024

Purpose of Grant / Reason for addition or change (include attachments as necessary to provide thorough information): The Department is requesting \$612,000 for the purpose of providing financing to municipalities to address emerging contaminants and improve and protect water quality and public health for citizens throughout the state. Funds received will be administered as forgivable loans through the Arkansas Clean Water State Revolving Fund Program.

Infrustructure Investment & Jobs Act Program Funding

	 Manufal to set the second set of second in state second is a market in second set of the second set. 		Continuation of Existing Program:		
Func. Area: COMM	Fund Code:	NEW	Change in Existing Program:	X	
Funds Center: NEW	Internal Order/WBS Element:	NEW	New Program:	-	
		Progra	am Funding Amount		
Regular Salaries					
Extra Help					
Personal Services Matching					
Operating Expenses					
Conference & Travel Expenses					
Professional Fees					
Capital Outlay					
Data Processing					
Grants and Aid (CI: 04)					
Other:	\$			612,000	
Other:					
Total	\$			612,000	

Anticipated Duration of Federal Funds:

07/19/2023-06/30/2024

DFA IGS State Technology Planning	Date
Items requested for information technology	must be in
compliance with Technology Plans as submi	itted to DFA
IGS State Technology Planning.	

D_3

Positions to be established: (list each position separately)

Positions to be established: (list each position separately) * unclassified					ied positions only				
Org	Pers	Pers	Cost	Position	Cmnt		Class		Line Item
Unit	Area	SubArea	Center	Number	Item	Position Title	Code	Grade	Maximum *

State funds will not be used to replace federal funds when such funds expire, unless appropriated by the General Assembly and authorized by the Governor.

Approved by:

he	W.MP	8
Cabinet	Secretary/Agency Director	

-22-2023 Date

Robert Brech 10/01/23 Office of Budget

Date

7

pm 9/19/23

Attachment 1 - Project Description

The purpose of this agreement is for a capitalization grant which provides funds for the recipient's Clean Water State Revolving Fund (CWSRF) program with a primary purpose to address emerging contaminants. Emerging contaminants refer to substances and microorganisms, including manufactured or naturally occurring physical, chemical, biological, radiological, or nuclear materials, which are known or anticipated in the environment, that may pose newly identified or re-emerging risks to human health, aquatic life, or the environment. These substances, microorganisms or materials can include many different types of natural or manufactured chemicals and substances - such as those in some compounds of personal care products, pharmaceuticals, industrial chemicals, pesticides, and microplastics. The activities are to provide low interest financing to numerous subrecipients for costs eligible under section 603(c) of the Clean Water Act and the primary purpose must be to address emerging contaminants. The benefits of this grant will be to capitalize the recipient's Clean Water State Revolving Fund with a primary focus on emerging contaminants. The expected outcomes are to establish and manage an effective comprehensive Clean Water State Revolving Fund program and to maintain a selfsustaining revolving fund to improve and protect water quality and public health for citizens throughout the state. Loans will be provided to municipalities through the State Revolving Fund programs to fund direct infrastructure projects.

	D . 4						
Agency: AR Division of Environmental Quality		ironmental Quality	Business Area Code:	0930			
Program Title	Program Title: AR Water Quality Mgmt. Planning, CWA 604b						
Granting Orga	anization: EPA		CFDA #: 66.454				
Effective Date of Authorization:		Beginning: 07/01/2023	Ending: 06/30	0/2024			

INFRASTRUCTURE INVESTMENT & JOBS ACT OF 2021

Purpose of Grant / Reason for addition or change (include attachments as necessary to provide thorough information):

Prior to the BIL, 604(b) funding averaged approximately \$105K per year. BIL reduced this amount to \$50K; however, additional funds were available through the 604(b) grant under terms provided in the BIL. Section 2.A of the Guidance Memorandum for 604(b) grant funds allows for states to use additional 604(b) funds provided by BIL to support activities already identified in past work plans that would be impacted by the reduction in the base allotments. The base funding of \$50,000 is not sufficient to cover the consumables cost of analyzing the samples that are included in this project, which has been ongoing over the past twenty-plus years, and that we intend to continue for years to come. This project is vital to the State of Arkansas and its efforts to monitor ambient waters, surface waters, and lakes across the entire State.

	Infrustructure Invest	ment & Jobs Act	Program Funding	
Func. Area: COMM	Fund Code:	FII9303	Continuation of Existing Program: Change in Existing Program:	x
Funds Center: BB8	Internal Order/WBS Element:	J.0930.10251-24	New Program:	
		F	rogram Funding Amount	
Regular Salaries				
Extra Help				
Personal Services Matching				
Operating Expenses				145476
Conference & Travel Expenses				6000.00
Professional Fees				
Capital Outlay				6000.00
Data Processing				
Grants and Aid (CI: 04)			4	
Other:				
Other:				
Total 157476	\$			157476

Anticipated Duration of Federal Funds:

06/30/2024

DFA IGS State Technology Planning Date Items requested for information technology must be in compliance with Technology Plans as submitted to DFA IGS State Technology Planning.

Positions to be established: (list each position separately)

Positions to	be establ	ished: (list	each posi	tion separately)	6			* unclassif	ied positions only
Org	Pers	Pers	Cost	Position	Cmnt		Class		Line Item
Unit	Area	SubArea	Center	Number	Item	Position Title	Code	Grade	Maximum *

State funds will not be used to replace federal funds when such funds expire, unless appropriated by the General Assembly and authorized by the Governor.

Approved by: 9.20.23 Date

Cabinet Secretary/Agency Director

Robert Brech 10/01/23 Office of Budget Date

NT - 9/20/2023

Office of Personnel Mgmt

Date

157476



Division of Environmental Quality

Office of Water Quality Water Laboratory

Clean Water Act, Section 604 (b) Work Plan

FFY 2023

July 1, 2023, to June 30, 2024

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Introduction

The objective of this project is to assist in continuation of a long-range water quality assessment program for Arkansas waterbodies. This program aids in measuring progress toward achieving national water quality goals, monitoring water quality trends, and developing the list of impaired waterbodies [303(d) list]. The Arkansas Department of Energy and Environment, Division of Environmental Quality (EE-DEQ) continues decades of monitoring the waters of the state. Parameters that may be monitored include, but are not limited to, nutrients, anions, solids, dissolved organic carbon (DOC), dissolved oxygen, pH, temperature, total metals, and dissolved metals.

EPA issued guidance on June 29, 2022, regarding Section 604(b) Water Quality Management Planning (WQMP) grants to include Bipartisan Infrastructure Law (BIL), also known as Infrastructure Investment and Jobs Act of 2021 (IIJA), funds available to address Environmental Justice (EJ) issues, Emerging Contaminants of Concern, and Climate Change. The guidance indicates that emphasis should be given to projects that address areas that meet certain criteria when evaluated using the EJ Screen tool.

EE-DEQ requests the \$202,000 available to the State of Arkansas for use in the continuation of analytical work performed in the water laboratory that supports the original project purposes of the 604(b) grant plus the FFY21 Funds in the amount of \$5,476 for a total of \$207,476. Additionally, EE-DEQ proposes to continue developing a plan of study to evaluate the presence of PFAS, including potential sources of PFAS, in Arkansas's waters of the state.

EE-DEQ evaluated its current monitoring sites in the State using the EJScreen: Environmental Justice Screening and Mapping Tool (https://www.epa.gov/ejscreen) using seven criteria considerations for each county in Arkansas. The following EJ criteria were considered in each of Arkansas's seventy-five counties: People of Color, Low Income, Unemployment Rate, Linguistically Isolated, Less than High School educated, Under 5 years old, and Over 64 years old.

The State of Arkansas is a rural state with each county scoring greater than the state or federal average for at least two EJ criteria and averaging four EJ criteria at or above the state or federal level Low income and less than a High School education are the two demographics in which most Arkansas counties exceed the state or federal average. The third most prevalent EJ criteria present across the state is senior citizens over the age of sixty-four. The majority of the counties meeting EJ criteria of persons of color are in southeast Arkansas along the Mississippi Delta and the Gulf Coastal Plain regions. The least prevalent of the EJ criteria in Arkansas is linguistic isolation with only two of seventy-five counties having a score greater than the state or federal average; however, sixteen counties have a score equal to the state or federal average for linguistic isolation. Arkansas has a large Marshallese community in Benton County and a large Hispanic community in Sevier County. When evaluating and planning new sample and monitoring sites, intentional emphasis and attention will be placed on surface waters in areas with multiple EJ concerns.

The data produced from this project may be used by other programs to assess the water quality of Arkansas's waterbodies. The data will be available to EE-DEQ's Water Quality Planning Section to assist with water quality issues such as Total Maximum Daily Load (TMDL) development, water quality standards development, and generation of the integrated report [305(b) report and 303(d) list]. Data will be available via Water Quality Exchange (WQX) to the Environmental Protection Agency (EPA) and to outside parties via the EE-DEQ website.

Work Plan

I. <u>Objectives</u>

The overall objective of this work plan is to assist in the continuation of EE-DEQ's long-range water quality assessment program. This program aids EE-DEQ in measuring progress toward achieving national water quality goals, identifying trends in water quality, and identifying problem areas in the State's waters. This program is also designed to assist other EE-DEQ programs by providing scientifically defensible water quality data.

Specific objectives of this FFY2023 604(b) Work Plan:

- A. Objective 1: Generate defensible, quality data to facilitate appropriate decision making on critical water quality issues including, but not limited to:
 - 1. Developing Total Maximum Daily Loads (TMDL);
 - 2. Developing water quality standards;
 - 3. Revising water quality standards; and
 - 4. Generating the integrated report [305(b) report and 303(d) list].
- B. Objective 2: Evaluate EE-DEQ's most current List of Impaired Surface Waters [303(d) List] to identify waters and stream segments that are lacking current water quality data. Waters and stream segments will be determined to be lacking current water quality data if water quality data is not available for those waters or stream segments within the last five calendar years. Using this evaluation in conjunction with Environmental Justice indices, EE-DEQ will develop a plan to sample those identified waters and stream segments and analyze the samples for water quality parameters to obtain updated water quality data for those waters and stream segments, beginning with those waters and stream segments located in counties with multiple Environmental Justice factors that are greater than or equal to the State or federal average for that respective factor.¹
- C. Objective 3: Evaluate the location of EE-DEQ's current ambient water quality monitoring stations using the Environmental Justice indices and identify areas of Environmental Justice concern in which additional ambient water quality monitoring may be implemented to ensure equitable and fair access to any benefits of the ambient water quality monitoring program.²
- D. Objective 4: Continuation of Watershed Characterization Study through sampling and analysis in the Upper Bayou Bartholomew watershed in Pine Bluff, Arkansas to identify point and nonpoint lead loading sources and characterize lead levels within the watershed.
- E. Objective 5: Continue to identify and evaluate potential source contributors of PFAS, emerging contaminants of concern, determine site locations for sampling, and sample surface waters to determine the extent of PFAS in Arkansas's surface waters.

¹ Objective 2 is projected to continue through on or about June 30, 2027.

² Objective 3 is projected to continue through on or about June 30, 2027.

II. <u>Activities</u>

Activities in this 604(b) work plan are carried out in accordance with procedures in the Arkansas Department of Energy and Environment, Division of Environmental Quality (EE-DEQ) Quality Management Plan (QMP), QTRAK number 22-277, and expiration date of July 26, 2023. Analyses and sampling protocols follow procedures in the approved Arkansas Water Quality and Compliance Monitoring Quality Assurance Project Plan (QAPP), QTRAK number 21-216, and expiration date of March 26, 2024. If work or data analysis is proposed that is not covered by this QAPP, the QAPP will be updated or a supplemental QAPP will be prepared and submitted to the Region for approval.

Each activity, milestone, and output is directly related to the core function of the EE-DEQ Office of Water Quality Laboratory—defensible, quality analysis of water samples. A summary budget for this work plan is provided in Table B.

Specific activities, milestones, and outputs associated with Objectives 1–5 of this FFY2023 604(b) Work Plan:

Objective 1 Activity, Milestones, Outputs, and Project Completion Date

- A. Objective 1 Activity: Analyze surface-water samples from watershed sampling and stream surveys in accordance with the procedures in the approved QAPP. Collection of surface-water samples is dependent upon weather conditions (adverse conditions such as snow, ice, or drought may impact EE-DEQ's, or EE-DEQ's contractor's, ability to collect surface-water samples) and the sampling frequency of other related programs; therefore, it is not possible to predict the exact number of samples that will be analyzed under this work plan. However, EE-DEQ estimates that approximately 500 surface-water quality samples will be analyzed during FFY2023.
 - 1. Objective 1 Milestone: Analyze surface-water samples for water quality parameters on an as-needed basis.
 - 2. Objective 1 Output: Data collected assists in waste load allocation studies, special waterbody impact evaluations, TMDL surveys, bacteria contamination identification studies, etc.
 - 3. Objective 1 Project Completion Date: Such activities are part of long-term projects. Planning extends from July 1, 2023, through June 30, 2024.
- B. Objective 1 Activity: Analyze ambient river, stream, and lake water quality samples in accordance with procedures in the approved QAPP. The current list of river, stream, and lake sampling locations is provided in Appendix A.
 - 1. Objective 1 Milestone: Approximately 175 streams are sampled and analyzed monthly for the parameters itemized in Appendix B. Approximately 40 additional stream and lake sites are regularly monitored, but on a less frequent basis.
 - 2. Objective 1 Output: Approximately 500 samples are analyzed each quarter for a total of ~2000 samples analyzed per fiscal year.
 - 3. Objective 1 Project Completion Date: This is an on-going project as continued sampling and analysis of Arkansas's surface waters is critical to EE-DEQ's long-

term water quality assessment program. Planning extends from July 1, 2023, through June 30, 2024.

- C. Objective 1 Activity: Conduct chemical analyses for Compliance Sampling Inspection (CSI) samples following the procedures in the approved QMP and QAPP. Collection of some CSI samples are dependent upon weather conditions (i.e., storm water discharges) or the frequency of discharge. CSI samples may also include upstream and downstream sampling. While it is not possible to predict the exact number of CSIs that will be analyzed per quarter, we can provide an estimate of CSI samples.
 - 1. Objective 1 Milestone:
 - a. Provide water quality analysis for CSI samples as needed.
 - b. Provide analytical reports for CSI sample analysis as needed.
 - 2. Objective 1 Output: Approximately 5–10 CSI samples analyzed each quarter for total of 20–40 CSI samples each fiscal year.
 - 3. Objective 1 Projected Completion Date: Multiple CSIs occur during each fiscal year. Planning extends from July 1, 2023, through June 30, 2024.
- D. Objective 1 Activity: Provide in-house computer services and technical analysis of water quality data by EE-DEQ personnel.
 - 1. Objective 1 Milestones:
 - a. Continued proper maintenance, technical assistance, and operation of Water Quality Exchange (WQX) and the EE-DEQ in-house systems
 - b. Data extraction and complex data analysis using WQX and the EE-DEQ inhouse systems.
 - 2. Objective 1 Outputs:
 - a. Data will be available to EE-DEQ personnel via EE-DEQ's intranet;
 - b. Data will be available to EPA via upload to WQX (Storet database)³; and
 - c. Data will be available to the public and other interested parties via the EE-DEQ website.
 - 3. Objective 1 Project Completion Date: This is an on-going project. Plans are made for July 1, 2023, through June 30, 2024.

Objective 2 Activity, Milestones, Outputs, and Project Completion Date

- E. Objective 2 Activity: Evaluate EE-DEQ's most current List of Impaired Surface Waters [303(d) List].
 - 1. Objective 2 Milestones: Assessment of current 303(d) List in conjunction with areas of Environmental Justice concern in Arkansas to identify those waters and stream segments that are lacking current water quality data.
 - 2. Objective 2 Outputs:
 - a. Priority list of impaired surface waters in areas of concern for Environmental Justice that are lacking current water quality data.
 - b. Multi-year Sampling and Analysis Plan to collect and analyze water quality

³ EE-DEQ is working to resolve the issues related to the upload of data to WQX. EE-DEQ has uploaded a test set of data from 2018 and once confirmation of successful upload is received, EE-DEQ will initiate the upload of all data beginning in 2018 to present.

samples for the parameters itemized in Appendix B, to be implemented in FFY23–26.

3. Objective 2 Project Completion Date: This will be a multi-year project, with the FFY23 Objective 2 Activity, Milestones, and Outputs being complete by June 30, 2024.

Objective 3 Activity, Milestones, Outputs, and Project Completion Date

- F. Objective 3 Activity: Evaluate EE-DEQ's current ambient water quality monitoring stations.
 - 1. Objective 3 Milestones:
 - a. Assessment of current ambient water quality monitoring stations in conjunction with areas of Environmental Justice concern in Arkansas to identify areas that are underrepresented for sampling and analysis of surface waters.
 - b. Scouting locations, as necessary, to determine feasibility of implementing new or reviving historic ambient water quality monitoring stations.
 - 2. Objective 3 Outputs:
 - a. Priority list of areas of concern for Environmental Justice that do not have regular ambient water quality monitoring stations.
 - b. Implementation Plan to add new ambient water quality monitoring stations or revive historic ambient water quality monitoring stations to the current Water Routes over FFY23–26.

Objective 3 Project Completion Date: This will be a multi-year project, with the FFY23 Objective 3 Activity, Milestones, and Outputs being complete by June 30, 2024.

Objective 4 Activity, Milestones, Outputs, and Project Completion Date

- G. Objective 4 Activity: Continue the Watershed Characterization Study for lead in the Upper Bayou Bartholomew watershed in Pine Bluff, Arkansas. The data obtained from this Study will confirm whether an impairment still exists. If the waters are still impaired, this Study may facilitate the development of a future TMDL.
 - 1. Objective 4 Milestones:
 - a. Procure sampling supplies and sample and analyze samples in accordance with the Watershed Characterization Study Sampling and Analysis Plan and the approved QMP.
 - 2. Objective 4 Outputs:
 - a. Sample results for lead for each sample collected and analyzed in accordance with the Watershed Characterization Study Sampling and Analysis Plan for the Upper Bayou Bartholomew watershed.
 - 3. Objective 4 Project Completion Date: This will be a multi-year project, with the FY23 Objective 4 Activity, Milestones, and Outputs being complete by July 1, 2023, through June 30, 2024.

Objective 5 Activity, Milestones, Outputs, and Project Completion Date

H. Objective 5 Activity: Continue to identify and evaluate potential source contributors of PFAS, emerging contaminants of concern, determine and evaluate site locations and sample surface waters, as identified during the source contributor evaluation, to aid in the

determination of the extent of PFAS in Arkansas's surface waters.

- 1. Objective 5 Milestones:
 - a. Research potential source contributors of PFAS and receiving waters for any and all discharges from those potential sources, including POTWs.
 - b. GIS mapping of potential source contributors of PFAS and their respective receiving waters.
 - c. Evaluation of all identified receiving waters for current known sampling stations; scouting for appropriate sampling locations for receiving waters without current sampling stations.
 - d. Identify additional funds to procure equipment and implement testing for PFAS at the EE-DEQ Office of Water Quality Water Laboratory.
- 2. Objective 5 Outputs:
 - a. Continue PFAS Investigation Plan to determine the extent of PFAS in Arkansas's surface waters, including scouting and selection of sampling site locations.
 - b. Continue development of the PFAS Investigation Sampling and Analysis Plan for the collection and analysis of surface water samples for PFAS.
- 3. Objective 5 Project Completion Date: This will be a multi-year project, with the FFY23 Objective 5 Activity, Milestones, and Outputs being complete by June 30, 2024.⁴

⁴ Objective 5 Milestones a–c may continue into subsequent quarters with the evaluations occurring simultaneously with sampling and analysis for PFAS at sites identified previously in the PFAS Investigation Plan. EE-DEQ is targeting to complete site evaluations within a single ecoregion per quarter—this process could progress slower depending on the number of potential sources within each ecoregion, weather conditions, and rural route obstacles.

III. **Output Commitments by Quarter**

Objective	Monitoring	Q1	Q2	Q3	Q4	Total
1	Ambient River and Stream	~500	~500	~500	~500	~2000
1	Stations Analyzed	500	-500	500	500	2000
1	CSI Samples	~5–10	~5–10	~5–10	~5–10	~20–40
4	Lead Evaluations	13-26	13–26	13–26	13–26	52–104
Objective	Planning and Evaluations	Q1	Q2	Q3	Q4	Total
2	Impaired Surface Waters Evaluation				Updated Priority List ⁵	
2	Impaired Surface Waters Evaluation				Updated Sampling and Analysis Plan	
3	Monitoring Station Evaluation				Updated Priority List	
3	Monitoring Station Evaluation				Updated Implement- ation Plan	
4	Pine Bluff Lead Study				Sample Results	
5	PFAS Source Evaluation	1 Eco	region	1 Ec	1 Ecoregion	
5	PFAS Sampling Sites Evaluation	1 Eco	region	1 Ec	1 Ecoregion	

Table A. EE-DEQ Output Commitments by Quarter, July 1, 2023, through June 30, 2024.

 ⁵ Continuation and update of previous Impaired Surface Waters Evaluation Priority List.
 ⁶ See Footnote 4.
 ⁷ See Footnote 4.

IV. <u>Participants</u>

Arkansas Department of Energy and Environment - Division of Environmental Quality, Office of Water Quality

- A. Water Laboratory, which includes the Water Laboratory Branch Manager, Chemist Supervisor, Chemists and Water Quality Specialist;
- B. Compliance Branch, which includes the Compliance Branch Manager, Inspector Supervisors, and Inspectors; and
- C. Planning Branch, which includes the Planning Branch Manager, Ecologist Coordinators, Biologists, and Ecologists.
- D. Deputy Associate Director.

V. <u>Budget</u>

FFY23

\$50,000 Base \$14,000 Emerging Contaminants \$138,000 Supplemental \$5,476 from FFY21

The base funding of \$50,000 is not sufficient to cover the consumables cost of analyzing the samples that are included in this project, which has been ongoing over the past twenty-plus years, and which DEQ intends to continue for years to come.⁸ This project is vital to the State of Arkansas and its efforts to monitor ambient waters, surface waters, and lakes across the entire State. Section 2.A. of the Guidance Memorandum allows for states to use additional 604(b) funds provided by BIL to support activities already identified in past work plans that would be impacted by the reduction in the base allotments. Table B reflects the proposed budget for the 604(b) activities covered in this current application.

Item	Purpose	Quantity	Cost/	Extended
	-	Units	Unit	Cost
Filters, chemicals,	TSS and TDS Analyses	5000	\$ 1.00	\$ 5,000
manifolds, and glassware				
Standards, acids, digestion	Metals analysis, calibrations, QC	40000	\$ 1.00	\$ 40,000
vessels, consumable parts,	and prep			
maintenance ¹⁰				

Table B	Summary	Budget	for 604	(h) Acti	ivities I	lulv 1	2023	through	June 3	0^{2}	024 9
Table D.	Summary	Duuget.	101 004	(0) Act	IVILLES J	uly I,	2023,	unougn	June J	0, 2	024.

⁸ The EE-DEQ Office of Water Quality Laboratory spends approximately \$220,000.00 in consumables each year to analyze samples. An additional approximate \$451,000.00 is expended for Office of Water Quality Laboratory staff. The current base funding will only cover approximately 22.7% of the cost of consumables for analyzing water samples and less than 8% of costs of consumables for analyzing water samples and salaries. That percentage shrinks even further when costs of maintenance contracts for equipment are included and other costs not accounted for by consumables and salary.

⁹ The Summary Budget set forth in Table B does not reflect the entirety of the budget required for the operation and maintenance and staff of the EE-DEQ Office of Water Quality Water Laboratory. The Table B budget only represents the expenditures that will be covered by the 604(b) funding.

¹⁰ Including service contracts for maintenance of instrumentation.

Item	Purpose	Quantity Units	Cost/ Unit	Extended Cost
Quanti Trays, QC, reagents	Analysis for Bacteria: Fecal and <i>E. coli</i>	5000	\$ 1.00	\$ 5,000
Standards, chemicals, reagents, QC, pump tubing, cadmium columns, digestion vessels, distillation tubes, maintenance ¹¹	Nutrients Analysis: Ammonia, TKN, Nitrate+Nitrite, Phosphorus, Alkalinity	16000	\$ 1.00	\$ 16,000
Analytical columns, standards, QC, maintenance ¹²	Anions Analysis: Bromide, Chloride, Sulfate, Fluoride	17000	\$ 1.00	\$ 17,000
Reagents, standards, QC, oxidizers, maintenance ¹³	TOC and DOC analysis	14000	\$ 1.00	\$ 14,000
Standards, QC solutions, manifolds, glassware	BOD, COD, Oil & Grease, Chlorophyll a	5000	\$ 1.00	\$ 5,000
Laboratory Gases ¹⁴	Laboratory Analyses including, but not limited to, metals analysis	22000	\$ 1.00	\$ 22,000
Glassware, PPE, pipets and tips, filter paper, digestion vessels, test tubes, chemicals, temperature and data loggers, sample vials, sample containers, filters, pH buffers, and other general laboratory items	General laboratory items used in analytical activities	20000	\$ 1.00	\$ 20,000
Filter replacements and maintenance	DI Water Systems, Type I and Type II	13000	\$ 1.00	\$ 13,000
Balance and Thermometer Services	Annual Balance, weight set, and thermometer calibrations and recertification	1500	\$ 1.00	\$ 1,500
PT Samples	Semiannual Proficiency Testing to maintain Accreditation, analyst training, and accuracy and precision of the laboratory	5000	\$ 1.00	\$ 5,000
Pine Bluff Lead Study	Metal bottles, Metal filters, Syringes, Field consumables	4000	\$ 1.00	\$ 4,000
Pine Bluff Lead Study	Sample Analysis	6500	\$ 1.00	\$ 6,500
	TOTAL for Consumables ¹⁵			\$ 174,000

¹¹ Including service contracts for maintenance of instrumentation.
¹² Including service contracts for maintenance of instrumentation.
¹³ Including service contracts for maintenance of instrumentation.
¹⁴ Including, but not limited to, argon, oxygen, and helium.
¹⁵ If for any of the items listed above, the cost is less than the projected extended cost, those funds will be used for other general laboratory items.

Item	Purpose	Quantity	Cost/	Extended
		Units	Unit	Cost
Training	In-house instrumentation training	8000	\$ 1.00	\$ 8,000
	or conference/training for 4 state			
	employees			
	Total for Training			\$ 8,000
PFAS Emerging	Travel/scouting for sampling ¹⁶	16	\$376	\$ 6,000
Contaminants	sites (4 state employees X 1 night			(rounded
	\$94 X 16)			down from
				\$ 6,016)
PFAS Emerging	Sample collection and supplies ¹⁷	8000	\$ 1.00	\$ 8,000
Contaminants				
	Total for Emerging			\$ 14,000
	Contaminants			
Equipment	YSI field meter probe and cable	6000	\$ 1.00	\$ 6,000
	Total Equipment			\$ 6,000
FFY21 Funds	General laboratory items used in	5476	\$ 1.00	\$ 5,476
	analytical activities			
	Total FFY21 Funds			\$ 5,476
		Total Con	sumables	\$ 174,000
		Total	Training	\$ 8,000
	Total Em	nerging Cont	aminants	\$ 14,000
		Total E	quipment	\$ 6,000
		Total FFY	21 Funds	\$ 5,476
		Gra	nd Total	\$ 207,476

BIL guidance for Environmental Justice Equity measures were followed in the preparation of this work plan and application of funding. EJScreen: Environmental Justice Screening and Mapping Tool (https://www.epa.gov/ejscreen) was the primary focus used for seven (7) Socioeconomic Indicators on a county by county basis. Every county in Arkansas exceeds the State and National Average in at least two (2) categories. The average number of indicators per county is five (5), with four (4) counties scoring in all seven (7) of these indicators. The most far-reaching indicators were low-income, less than high school education, and population over 64 years old. A compilation of this data is provided in Appendix C, with maps depicting the indicators as highlighted counties in Appendix D. As a rural state, the occurrence and prevalence of conditions of Environmental Justice are widespread across the state. These 604(b) funds will benefit citizens in the State of Arkansas. Future planning and site evaluations will now take into consideration these Indicators and have weighted favor given to areas of EJ concern.

Arkansas receives 106 grant monies for CWA water quality monitoring, assessment and development of TMDL lists, impaired waters, writing NPDES point source discharge permits, and groundwater protection activities for drinking water sources. EE-DEQ receives the multi-purpose grants for various water quality planning projects.

¹⁶ If funds are not completely expended for travel, then those funds will be used for sample collection and supplies.

¹⁷ If all the travel funds are expended, funds from sample collection and supplies may be used to supplement the travel expenses for PFAS sample site selection and scouting.

At this time, Arkansas EE-DEQ is not evaluating climate change effects on surface waters of the state; however, future plans are under consideration.

As required by the 604(b) grant funding guidance, EE-DEQ OWQ reached out to Regional Planning Commissions (RCP) in Arkansas with an offer of up to 40% of the grant monies awarded for projects the RPCs would want to conduct. There was no applicable response from any of the nine (9) Arkansas RPCs. Therefore, Sarah Huckabee Sanders, Governor of Arkansas, has requested that all 604(b) grant money be awarded to EE-DEQ. The documents related to this requirement are provided in Appendix E.

Appendix A

River, Stream, and Lake Sampling Locations for FFY23¹⁸

Basin Code	Segment	Description	Ecoregion	AR County	Team
ARK0020	3A	Arkansas River at Lock and Dam No. 2	Mississippi Alluvial Plain	Arkansas	Ambient
WHI0036	4A	White River off SR1 on Belnap Rd Boat Ramp at St. Charles	Mississippi Alluvial Plain	Arkansas	Ambient
OUA0263	2C	Fountain Creek on Fairview Rd/SR133 SW of Fountain Hill	South Central Plains	Ashley	Planning
OUA0264	2D	Little Brushy Creek on Fairview Rd/SR133 S of North Crossett	South Central Plains	Ashley	Planning
OUA0265	2B	White Oak Creek on Camp Rd E of Hwy 425 SE of Berlin; US reach	South Central Plains	Ashley	Planning
OUA0266	2B	Chemin-A-Haut Bayou on CR130 N of Hwy 82 NE of Hamburg	South Central Plains	Ashley	Planning
WHI0045	4F	North Fork White River on River Ridge Road near Norfork	Ozark Highlands	Baxter	Ambient
WHI0046A	4F	White River on CR61/Shipps Ferry Rd (Boat Ramp) W of Norfork, AR	Ozark Highlands	Baxter	Ambient
WHI0047	4I	White River on River Cliff Dr BL Bull Shoals Dam	Ozark Highlands	Baxter	Ambient
WHI0065	4F	Hicks Creek on CR55/Old Military Rd BL Mountain Home	Ozark Highlands	Baxter	Ambient
ARK0003	3J	Spavinaw Creek on SR43 3.5 miles N of Cherokee City	Ozark Highlands	Benton	Ambient
ARK0006	3J	Illinois River on SR59 5 miles S of Siloam Springs	Ozark Highlands	Benton	Ambient
ARK0056	3J	Little Sugar Creek tributary on NW A St N of Bentonville (WWTP)	Ozark Highlands	Benton	Ambient
ARK0082	3J	Osage Creek on Logan Rd in Logan, 14 miles W of Springdale	Ozark Highlands	Benton	Ambient
OSC0004	3J	Osage Creek on CR71 1 MI. W. of Hwy. 112. (ARK0068B)	Ozark Highlands	Benton	Ambient
WHI0066	4I	Crooked Creek on Silver Valley Rd BL Harrison	Ozark Highlands	Boone	Ambient
WHI0067	4I	Crooked Creek on Hwy 62/65 AB Harrison	Ozark Highlands	Boone	Ambient
WHI0200	4I	Crooked Creek on Hudson Road S of Harrison	Ozark Highlands	Boone	Ambient
WHI0232	4K	Terrapin Creek bridge on Creekland Dr 2.5 miles S of Batavia	Boston Mountains	Boone	Planning
OUA0010A	2C	Saline River near Fountain Hill, AR on SR8/160	South Central Plains	Bradley	Ambient
OUA0028	2D	Moro Creek E. of Hampton, AR on Hwy 278	South Central Plains	Bradley	Ambient
OUA0267	2C	Beech Creek on Hwy 63 W of Ingalls; US reach	South Central Plains	Bradley	Planning
OUA0268	2C	Steepbank L'Aigle Creek on Hwy 278 NE of Banks; US reach	South Central Plains	Bradley	Planning
OUA0269	2C	Camp Creek on Hwy 278 S of McKinney; US reach	South Central Plains	Bradley	Planning
OUA0254	2D	Lloyd Creek on SR172 S of Hampton; US reach	South Central Plains	Calhoun	Planning
OUA0255	2D	Two Bayou on SR205 N of East Camden; US reach	South Central Plains	Calhoun	Planning
OUA0256	2D	Locust Bayou on CR 5 between SR274/278 N of Locust Bayou	South Central Plains	Calhoun	Planning
WHI0009A	4K	Kings River on SR143 N of Berryville	Ozark Highlands	Carroll	Ambient
WHI0012B	4K	Leatherwood Creek on SR23 BL Eureka Springs	Ozark Highlands	Carroll	Ambient
WHI0068	4K	Osage Creek on SR221 AB Berryville	Ozark Highlands	Carroll	Ambient
WHI0069	4K	Osage Creek off Bunch Springs Rd down Powerline BL Berryville	Ozark Highlands	Carroll	Ambient
WHI0071	4K	Long Creek on CR824 BL Denver	Ozark Highlands	Carroll	Ambient
WHI0129	4K	Osage Creek at Hwy 412 NW of Osage	Boston Mountains	Carroll	Planning
WHI0230	4K	Kenner Creek bridge on SR103, 2 miles S of Osage	Boston Mountains	Carroll	Planning
LMIS006B	2A	Lower Lake Chicot	Mississippi Alluvial Plain	Chicot	Lake
OUA0023	2F	Caddo River near Amity, AR above SR84 Bridge	Ouachita Mountains	Clark	Ambient
WHI0003	4G	Black River on Hwy 62 Bennette Ferry Bridge near Corning	Mississippi Alluvial Plain	Clay	Ambient

¹⁸ Sampling sites and routes may vary; this list represents established sampling sites available for sample collection. New sites may be established as needed.

Basin Code	Segment	Description	Ecoregion	AR County	Team
WHI0224	4E	Hill Creek bridge on Brewer Rd 2.5 miles off of Sunny Slope Rd	Boston Mountains	Cleburne	Planning
OUA0043	2C	Big Creek near Pansy, AR on SR35	South Central Plains	Cleveland	Ambient
OUA0118	2C	Saline River at Hwy. 79 bridge south of Rison, Arkansas	South Central Plains	Cleveland	Ambient
OUA0273	2C	Panther Creek on Huntley Rd just off Hwy 79 N of Saline; DS reach	South Central Plains	Cleveland	Planning
OUA0274	2C	Big Creek on CR93/Brushy Creek Rd E of Rison; US reach	South Central Plains	Cleveland	Planning
RED0015A	1A	Dorcheat Bayou east of Taylor on SR160	South Central Plains	Columbia	Ambient
ARK0031B	3F	Arkansas River at Ormond Lock and Dam (Lock and Dam 9)	Arkansas Valley	Conway	Ambient
ARK0132	3D	Cypress Creek on SR9 9.5 miles N of Morrilton	Arkansas Valley	Conway	Ambient
LARK004A	3D	Brewer Lake - midpoint between steep shoreline & spillway.	Arkansas Valley	Conway	Lake
LARK005A	3F	Overcup Lake - close to midpoint of dam.	Arkansas Valley	Conway	Lake
FRA0008	5A	St. Francis River at Lake City, AR on SR18	Mississippi Alluvial Plain	Craighead	Ambient
WHI0026	4B	Bayou DeView on SR226/Cash Hwy W of Gibson	Mississippi Alluvial Plain	Craighead	Ambient
WHI0172	4B	Lost Creek on Lacy Drive near Jonesboro	Mississippi Alluvial Plain	Craighead	Ambient
WHI0196	4B	Big Creek ditch on SR91/Dan Ave NW of Jonesboro	Mississippi Alluvial Plain	Craighead	Ambient
ARK0090B	3H	Frog Bayou on SR282 (BL Lectra Circuit) 2 miles S of Mountainburg	Boston Mountains	Crawford	Planning
LARK024A	3H	Lee Creek Lake near the dam.	Arkansas Valley	Crawford	Lake
LMIS001A	5A	Horseshoe Lake - on line fm. Five Lakes across lake.	Mississippi Alluvial Plain	Crittenden	Lake
LMIS008A	5B	Lake Austelle near Dam	Mississippi Alluvial Plain	Cross	Lake
OUA0047	2D	Jug Creek below Fordyce, AR on S Cleveland	South Central Plains	Dallas	Ambient
OUA0248	2C	Cow Head Creek on SR48 E of Carthage; US reach	South Central Plains	Dallas	Planning
OUA0249	2D	Pickett Creek on SR229 N of Bunn; US reach	South Central Plains	Dallas	Planning
OUA0250	2D	Cooks Creek on SR229 N of Fordyce; US reach	South Central Plains	Dallas	Planning
OUA0251	2F	Marshall Creek on SR273 W of Fordyce; US reach	South Central Plains	Dallas	Planning
OUA0252	2D	Caney Creek on SR274 3 miles SE of Fordyce; US reach	South Central Plains	Dallas	Planning
OUA0117	2C	Saline River off SR172 on CR141 S of Warren	South Central Plains	Drew	Ambient
OUA0270	2C	Langford Creek on SR133 N of Wimar; downed barbed wire fence	South Central Plains	Drew	Planning
OUA0271	2B	Rainbow Creek on CR144 E of Hwy 425 S of Cominto; DS reach	South Central Plains	Drew	Planning
OUA0272	2B	Panther Creek on SR293 N of Selma; US reach	South Central Plains	Drew	Planning
ARK0030B	3F	Arkansas River at Toad Suck Lock and Dam (Lock and Dam 8)	Arkansas Valley	Faulkner	Ambient
ARK0051	3F	Stone Dam Creek on Sturgis Rd just S of Conway	Arkansas Valley	Faulkner	Ambient
ARK0158	3D	East Fork Cadron Creek on SR25 3 miles S of Wooster	Arkansas Valley	Faulkner	Ambient
LARK001A	3D	Lake Conway - lower, near spillway.	Arkansas Valley	Faulkner	Lake
LARK006A	3D	Beaverfork Lake - north of Conway - midway from boat launch	Arkansas Valley	Faulkner	Lake
LARK042	3D	Lake Bennett near dam at lake at Woolly Hollow State Park	Arkansas Valley	Faulkner	Lake
ARK0033	3Н	Arkansas River at Ozark Lock and Dam S of Ozark	Arkansas Valley	Franklin	Ambient
ARK0042	3H	Mulberry River just off I40 (dirt trail) 11 miles E of Alma	Boston Mountains	Franklin	Ambient
WHI0022	4H	Spring River on CR90/9 Mile Ridge Rd near Hardy	Ozark Highlands	Fulton	Ambient
WHI0023	4H	South Fork Spring River on SR289 near Saddle	Ozark Highlands	Fulton	Ambient
WHI0089	4H	Spring River off Hwy 63 in MS Park at Mammoth Spring	Ozark Highlands	Fulton	Ambient
LOUA021A	2C	Cox Creek Lake below AG&F Boat Ramp.	South Central Plains	Grant	Lake
OUA0018	2C	Big Creek below Sheridan, AR on CR204	South Central Plains	Grant	Ambient
OUA0042	2C	Saline River near Sheridan, AR on Hwy 167	South Central Plains	Grant	Ambient
OUA0116	2C	Hurricane Creek at Hwy. 270 Bridge 3 mi east of Sheridan, AR	South Central Plains	Grant	Ambient

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Basin Code	Segment	Description	Ecoregion	AR County	Team
LWHI002A	4B	Lake Frierson - mid. pt. of trans. fm. ramp parallel to dam	Mississippi Alluvial Plain	Greene	Lake
LRED005A	1B	Bois D Arc Lake - SW of Spring Hill - pt. fm. ramp across.	South Central Plains	Hempstead	Lake
RED0046	1B	Red River near Fulton on near Hwy 67 and I30	South Central Plains	Hempstead	Ambient
OUA0006	2F	Ouachita River near Malvern on SR84/Tanner St.	South Central Plains	Hot Spring	Ambient
OUA0030	2F	Ouachita River near Donaldson, AR on Hwy 67	Ouachita River near Donaldson, AR on Hwy 67 South Central Plains		Ambient
OUA0100	2F	Cove Creek near Magnet Cove on SR51	Ouachita Mountains	Hot Spring	Ambient
RED0018B	1C	Mine Creek below Nashville on SR355	South Central Plains	Howard	Ambient
RED0021	1C	Saline River near Lockesburg, Arkansas	South Central Plains	Howard	Ambient
RED0031	1C	Cossatot River E of Wickes on Hwy 278/SR4	Ouachita Mountains	Howard	Ambient
RED0032	1C	Saline River N of Dierks on Hwy 278/SR4	Ouachita Mountains	Howard	Ambient
RED0034A	1C	Holly Creek above Dierks on Hwy 278	South Central Plains	Howard	Ambient
RED0034B	1C	Holly Creek below Dierks on S Ark Ave	South Central Plains	Howard	Ambient
RED0048B	1C	Mine Creek on Buck Range Rd S of Nashville	South Central Plains	Howard	Ambient
WHI0138	4C	White River off SR367 1.5 miles East on CR4 12 miles South of Newport	Mississippi Alluvial Plain	Jackson	Ambient
ARK0023	3B	Bayou Meto on SR11 1.5 miles S of Bayou Meto	Mississippi Alluvial Plain	Jefferson	Ambient
ARK0048	3C	Arkansas River at Lock and Dam No. 4 off I63	Mississippi Alluvial Plain	Jefferson	Ambient
ARK0049	3C	Arkansas River at Lock and Dam No. 5 on SR256 SW of Wright	Mississippi Alluvial Plain	Jefferson	Ambient
OUA0247	2C	Johnson Creek on CR Grant 29 W of Pine Bluff: DS reach	South Central Plains	Jefferson	Planning
LARK017A	3H	Horsehead Lake - 150 yards up from dam.	Arkansas Valley	Johnson	Lake
LRED001A	1A	Lake Erling - lower.fm. pt. above ramp to nearest prom. pt.	South Central Plains	Lafavette	Lake
RED0027	1A	Bodcau Creek near Lewisville on SR3131	South Central Plains	Lafavette	Ambient
LWHI007A	4G	Lake Charles - pt. closer to L. Shore - rec. pt. to pt. East	East Mississippi Alluvial Plain		Lake
WHI0021	4H	Spring River on CR107/S 1st St at Ravenden	Ozark Highlands	Lawrence	Ambient
WHI0024	4G	Strawberry River on SR115 near of Smithville	Ozark Highlands	Lawrence	Ambient
FRA0010	5B	L'Anguille River near Marianna, AR on Hwy 79	Mississippi Alluvial Plain	Lee	Ambient
OUA0275	2B	Flat Creek on CR12 W of Hwy 425 W of Yorktown; US reach	South Central Plains	Lincoln	Planning
OUA0276	2B	Cane Creek on SR11 NE of Star City; US reach	South Central Plains	Lincoln	Planning
UWBYB03	2B	Bayou Bartholomew on SR54 at Garrett Bridge	Mississippi Alluvial Plain	Lincoln	Ambient
RED0025	1B	Red River south of Foreman on SR41	South Central Plains	Little River	Ambient
ARK0011B	3H	Short Mountain Creek on Short Mountain Rd N of Paris	Arkansas Valley	Logan	Ambient
ARK0034	3G	Petit Jean River on SR23 S of Booneville	Arkansas Valley	Logan	Ambient
ARK0097	3B	Bayou Two Prairie at SR13 S of Carlisle	Mississippi Alluvial Plain	Lonoke	Ambient
LARK025A	3B	Pickthorne Lake along eastern most levee.	Mississippi Alluvial Plain	Lonoke	Lake
WHI0070	4K	Holman Creek on SR23 BL Huntsville	Ozark Highlands	Madison	Ambient
WHI0104	4K	White River on CR112 at St. Paul	Boston Mountains	Madison	Planning
WHI0116	4K	War Eagle Creek at SR45 N of Hindsville	Ozark Highlands	Madison	Ambient
WHI0121	4K	Kings River on SR21 N of Kingston	Ozark Highlands	Madison	Ambient
WHI0123	4K	Kings River on CR25 N of Alabam	Alabam Ozark Highlands M		Ambient
WHI0220	4K	Wharton Creek bridge on SR74 2 miles E of Wharton	Boston Mountains	Madison	Planning
WHI0221	4K	Lollars Creek bridge on CR6261 0.5 miles N Asher	Boston Mountains	Madison	Planning
WHI0225	4K	Felkins Creek bridge on CR3655 5 miles S of Kingston	Boston Mountains	Madison	Planning
WHI0227	4K	War Eagle Creek on a bridge on Madison 5635 off SR23	Boston Mountains	Madison	Planning
WHI0231	4K	Drakes Creek bridge on CR6245 E Drakes Creek town	Boston Mountains	Madison	Planning

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Basin Code	Segment	Description	Ecoregion	AR County	Team
WHI0233	4K	Jackson Creek Bridge on CR5675 0.5 miles W of Aurora and SR23	Boston Mountains	Madison	Planning
WHI0048B	4I	Crooked Creek on CR7055/6002 2 miles S of Flippin	Ozark Highlands	Marion	Ambient
WHI0048C	4I	Crooked Creek at Hwy. 101 2 miles north of Rea Valley	Ozark Highlands	Marion	Ambient
WHI0193	4I	Crooked Creek on CR4002 W of Yellville	Ozark Highlands	Marion	Ambient
RED0004A	1B	Days Creek SE of Texarkana on Blackman Ferry Rd (SR237)	South Central Plains	Miller	Ambient
RED0005	1B	Sulphur River S of Texarkana on Blackman Ferry Rd (SR237)	South Central Plains	Miller	Ambient
RED0009	1B	Red River near Doddridge on SR160	South Central Plains	Miller	Ambient
RED0045	1B	Red River near Garland on Hwy 82	South Central Plains	Miller	Ambient
LWHI006A	4A	Lake Greenlee -E. of Brinkley. of levee about 200 yds	Mississippi Alluvial Plain	Monroe	Lake
WHI0073	4A	Prairie Cypress Creek at Hwy 1 near Crossroads	Mississippi Alluvial Plain	Monroe	Ambient
WHI0074	4A	Boat Gunwale Slash at Hwy. 146 near Deep Elm	Mississippi Alluvial Plain	Monroe	Ambient
OUA0021	2F	Ouachita River near Pencil Bluff, AR on Hwy 270	Ouachita Mountains	Montgomery	Ambient
OUA0044	2F	South Fork Caddo River on Nfw517 at Fancy Hill	Ouachita Mountains	Montgomery	Ambient
OUA0044T	2F	Unnamed trib of South Fork Caddo River near Fancy Hill	Ouachita Mountains	Montgomery	Ambient
WHI0029	4F	White River on Ferry Rd at Oil Trough	Mississippi Alluvial Plain	Independence	Ambient
OUA0035	2G	Little Missouri River near Boughton, AR on Hwy 67	South Central Plains	Nevada	Ambient
ARK0125	3H	Walnut Creek on CR26 10 miles SW of Deer (S. of Edwards Jct)	Boston Mountains	Newton	Planning
BUFT901	4J	Richland Creek above Richland Creek Wilderness Area	Boston Mountains	Newton	Planning
WHI0216	4J	Left Fork Big Creek bridge on CR41, S of SR374 in Vendor	Boston Mountains	Newton	Planning
WHI0216	4J	Bridge on Newton 41, S of AR 374 in Vendor	Boston Mountains	Newton	Planning
WHI0217	4J	Big Creek bridge on SR74/123 0.5 miles E of Vendor	Boston Mountains	Newton	Planning
WHI0217	4J	Bridge on AR 74/123 0.5 miles E of Vendor	Boston Mountains	Newton	Planning
WHI0218	4J	Shop Creek low water crossing, Newton 190, N of Parthenon	Boston Mountains	Newton	Planning
WHI0228	4J	Little Buffalo River low water crossing, Newton 170	Boston Mountains	Newton	Planning
OUA0037	2D	Ouachita River below Camden, AR on CR381	South Central Plains	Ouachita	Ambient
OUA0052B	2D	Two Bayou on Hwy 278 SE of East Camden	South Central Plains	Ouachita	Ambient
OUA0253	2D	North Fork Smackover Creek on CR Ouachita Rd 66 NW of Smackover	South Central Plains	Ouachita	Planning
ARK0052	3E	South Fourche LaFave River on SR7 just S of Hollis	Ouachita Mountains	Perry	Ambient
LARK003A	3E	Harris Break Lake - off east end of spillway.	Arkansas Valley	Perry	Lake
OUA0022	2G	Little Missouri River near Langley, AR on SR84	Ouachita Mountains	Pike	Ambient
OUA0039B	2G	Little Missouri River below Murfreesboro, AR on Roy Rd.	South Central Plains	Pike	Ambient
OUA0040	2F	Prairie Creek on CR54 US Mena WWTP	Ouachita Mountains	Polk	Ambient
RED0001	1D	Mountain Fork of Little River near Hatfield on SR246	Ouachita Mountains	Polk	Ambient
RED0058	1C	Rolling Fork River on CR446/475 W of Grannis	Ouachita Mountains	Polk	Ambient
ARK0032	3F	Arkansas River on SR7 (S, Arkansas Ave) in Dardanelle	Arkansas Valley	Pope	Ambient
ARK0043	3Н	Big Piney Creek on SR164 1.3 miles S of Bullfrog Valley	Boston Mountains	Pope	Ambient
ARK0044	31	Illinois Bayou on SR7 1.2 miles NW of Dover	Boston Mountains	Pope	Ambient
ARK0053	3F	White Oak Creek on Union Groove Rd 2.5 miles E of Atkins	Arkansas Valley	Pope	Ambient
ARK0067	3F	Whig Creek on S Franklin Ave. S of Russellville (WWTP)	Arkansas Valley	Pope	Ambient
WHI0031	4D	White River on CR324/Reds Camp Rd at DeValls Bluff	Mississippi Alluvial Plain	Prairie	Ambient
WHI0072	4D	Wattensaw Bayou on SR11 N of Hazen	Mississippi Alluvial Plain	Prairie	Ambient
ARK0029	3C	Arkansas River at Murray Lock and Dam (Lock and Dam No. 7)	Arkansas Valley	Pulaski	Ambient
ARK0046	3C	Arkansas River at David D. Terry Lock and Dam SW of Scott	Mississippi Alluvial Plain	Pulaski	Ambient

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Basin Code	Segment	Description	Ecoregion	AR County	Team
ARK0050	3B	Bayou Meto on SR161 just S of Jacksonville	Mississippi Alluvial Plain	Pulaski	Ambient
ARK0060	3B	Bayou Meto on West Main Street Bridge in Jacksonville	Mississippi Alluvial Plain	Pulaski	Ambient
ARK0131	3C	Fourche Creek just off I440 in East Little Rock	South Central Plains	Pulaski	Ambient
ARK0147C	3C	Fourche Creek off Gum Springs Rd at Benny Craig Park - Audubon 3	South Central Plains	Pulaski	Ambient
ARK0147F	3C	Fourche Creek on Otter Creek Road near Stagecoach Rd - Audubon 6	South Central Plains	Pulaski	Ambient
ARK0147H	3C	Fourche Creek off Blount Rd in Hindman Park	South Central Plains	Pulaski	Ambient
WHI0004	4G	Current River on Hwy 62/67 near Pocahontas	Ozark Highlands	Randolph	Ambient
WHI0005B	4H	Eleven Point River on Kilo Vista Rd near Pocahontas	Ozark Highlands	Randolph	Ambient
WHI0025	4G	Black River on Hwy 67/SR90 at Pocahontas	Mississippi Alluvial Plain	Randolph	Ambient
FRA0012	5B	Second Creek North of Palestine, Arkansas	Mississippi Alluvial Plain	Saline	Ambient
FRA0013	5A	St. Francis River just off SR50	Mississippi Alluvial Plain	Saline	Ambient
UWLGR01	5B	L' Anguille River at SR306/Old Military Rd W of Colt	Mississippi Alluvial Plain	Saline	Ambient
AFS0001	2C	Alum Fork Saline River at Hwy 5 E. of Crows	Ouachita Mountains	Scott	Ambient
MFS0002	2C	Middle Fork Saline River at Vance Road Bridge	Ouachita Mountains	Scott	Ambient
NFS0004	2C	N. Fork Saline River @ Hwy 5 bridge	Ouachita Mountains	Scott	Ambient
OUA0026	2C	Saline River near Benton, AR on SR229	Ouachita Mountains	Scott	Ambient
OUA0031	2C	Hurricane Creek near Sardis, AR on S Sardis Rd	South Central Plains	Scott	Ambient
OUA0041	2C	Saline River below Benton, AR on Shaw Bridge Rd.	Ouachita Mountains	Scott	Ambient
SFS0002	2C	South Fork of the Saline River on Owensville Cutoff/CR268	off/CR268 Ouachita Mountains		Ambient
ARK0037	3E	Fourche LaFave River on SR28 S of Harvey	Ouachita Mountains		Ambient
ARK0054	31	Poteau River on SR80 (E 6th St.) jus E of Waldron	Arkansas Valley	Searcy	Ambient
ARK0055	31	Poteau River on Hwy 71 just N of Waldron	Arkansas Valley	Searcy	Ambient
WHI0180	4E	Little Red Creek on CR40 S of Marshall	Boston Mountains	Searcy	Planning
WHI0182	4E	Cove Creek off Hwy 65 at Leslie	Boston Mountains	Searcy	Planning
WHI0049A	4J	Buffalo River on Hwy 65 near St. Joe	Boston Mountains	Sebastian	Ambient
ARK0015	31	James Fork on CR45 1.5 miles S of Hackett	Arkansas Valley	Sevier	Ambient
ARK0038	3H	Arkansas River off SR255 (Riverfront Dr.) on a boat ramp in Van Buren	Arkansas Valley	Sevier	Ambient
ARK0154	31	Arkansas River at Hwy 64 Bridge/Garrison Avenue in Fort Smith	Arkansas Valley	Sevier	Ambient
LARK023A	3Н	Lake Jack Nolan above dam	Arkansas Valley	Sevier	Lake
RED0002	1C	Little River near Horatio on SR41	South Central Plains	Sharp	Ambient
RED0022	1C	Cossatot River west of Lockesburg. Arkansas	South Central Plains	Sharp	Ambient
RED0023A	1C	Rolling Fork Little River SW of Dequeen on Dog Town Rd	South Central Plains	Sharp	Ambient
RED0030	1C	Rolling Fork Creek west of Gillham on Cedar Bluff Rd (CR206)	Ouachita Mountains	Sharp	Ambient
RED0033	1C	Bear Creek below Process City, Arkansas	South Central Plains	Sharp	Ambient
WHI0088	4H	Spring River on N Spring St at Hardy	Ozark Highlands	St. Francis	Ambient
WHI0011	4F	South Sylamore Creek near Mountain View, Arkansas	Ozark Highlands	Stone	Ambient
WHI0226	4E	Meadow Creek Bridge of Flag Road off of Meadow Creek Road	Meadow Creek Road Roston Mountains		Planning
WHI0234	4E	Turkey Creek bridge on SR9 2.75 miles NE of Rushing	Boston Mountains		Planning
OUA0002	2E	Cornie Bayou near Three Creeks, AR on SR15/Havesville Hwy	South Central Plains	Union	Ambient
OUA0005	2D	Bayou de Loutre n. Junction City, AR on CR27/Pleasant Groove	South Central Plains	Union	Ambient
OUA0008B	2D	Ouachita River at Felsenthal Lock / Dam on New Lock 6 Rd.	South Central Plains	Union	Ambient
OUA0027	2D	Smackover Creek near Smackover, AR on CR67/Old Camden Rd	South Central Plains	Union	Ambient
OUA0124B	2D	Ouachita River below Game & Fish Pigeon Hill Access	South Central Plains	Union	Ambient

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Basin Code	Segment	Description	Ecoregion	AR County	Team
OUA0137A	2D	Unnamed tributary of Flat Creek below El Dorado Chemical Co.	South Central Plains	Union	Ambient
OUA0257	2E	Curtis Creek on Haynesville Hwy/SR15 W of Wesson; US reach	South Central Plains	Union	Planning
OUA0258	2E	Beech Creek on CR266 off Shuler Rd W of El Dorado; US reach	South Central Plains	Union	Planning
OUA0259	2D	Smackover Creek on Old Camden Rd/ Ouachita Rd 55 W of Smackover	South Central Plains	Union	Planning
OUA0260	2D	Cannon Creek on Strong Hwy/SR82 E of Strong; US reach	South Central Plains	Union	Planning
OUA0261	2D	Hibank Creek on Hibank Rd S of SR82 N of Pleasant Grove; US reach South Central Plains		Union	Planning
OUA0262	2D	Tom Creek on Champagnolle Rd E of SR167 S of Callion; US reach	South Central Plains	Union	Planning
LARK041	3F	Driver Creek Lake	Boston Mountains	Van Buren	Lake
UWAFK01	4E	Archey Fork Little Red River in Clinton on Hwy. 65	Boston Mountains	Van Buren	Planning
WHI0043	4E	Middle Fork Little Red River on SR9/Guffy Ln near Shirley	Boston Mountains	Van Buren	Ambient
WHI0222	4E	Weaver Creek bridge 0.7 miles down Silver Rock Rd off of SR16 E	Boston Mountains	Van Buren	Planning
ARK0007A	3J	Barren Fork on SR45 E in Dutch Mills	Boston Mountains	Washington	Ambient
ARK0010C	3J	Clear Creek at Hwy. 112 Bridge	Ozark Highlands	Washington	Ambient
ARK0040	3J	Illinois River on SR16 W of Savoy	Ozark Highlands	Washington	Ambient
ARK0141	3J	Cincinnati Creek on SR244 7 miles S of Siloam Springs	Ozark Highlands	Washington	Ambient
LARK015A	3J	Lake Fayetteville - W. of spillway above boat docks.	Ozark Highlands	Washington	Lake
LWHI009A	4K	Lake Sequoyah near dam.	Ozark Highlands	Washington	Lake
LWHI014	4K	Lake Wilson	Boston Mountains	Washington	Lake
WHI0052	4K	White River on SR45/W Boman Rd near Goshen	Ozark Highlands	Washington	Ambient
WHI0100	4K	W Fork White River on CR55/Dead Horse Mountain Rd	Ozark Highlands	Washington	Ambient
WHI0103	4K	Middle Fork White River on CR51/S Harris Dr SW of Elkins	Ozark Highlands	Washington	Ambient
WHI0106	4K	White River off SR16 on CR183 at Durham	Ozark Highlands	Washington	Ambient
WHI0110	4K	Richland Creek on SR45/W Bowen Blvd near Goshen	Boston Mountains	Washington	Planning
WHI0219	4K	Middle Fork White River bridge on E Black Oak Rd 1 mile S of Black Oak	Boston Mountains	Washington	Planning
WHI0223	4K	Town Branch bridge on Morningside Dr off SR156/16 in SE Fayetteville	Boston Mountains	Washington	Planning
WHI0229	4K	West Fork White River bridge on S Main Ave off US 71	Boston Mountains	Washington	Planning
WHI0059	4E	Little Red River on SR367/Lakeshore Dr S of Searcy	Arkansas Valley	White	Ambient
ARK0057	3G	Dutch Creek on CR17 9 miles SW of Danville	Arkansas Valley	Yell	Ambient
ARK0058	3G	Chickalah Creek on SR27 at Chickalah	Arkansas Valley	Yell	Ambient
ARK0001	3J	Little Sugar Creek by I71 at Caverna MO	Ozark Highlands		Ambient
ARK0004A	3J	Flint Creek on CR DO553 Rd 4 miles NW of W Siloam Springs OK	Ozark Highlands		Ambient
ARK0005	3J	Sager Creek on Beaver Springs Rd 2 miles NW of Siloam Springs AR	Ozark Highlands		Ambient
ARK0014	31	Poteau River just off SR9A in Arkoma Park SW of Ft. Smith	Arkansas Valley		Ambient
OUA0013	2B	Bayou Bartholomew near Jones, LA on Hopkins Hill Rd	Mississippi Alluvial Plain		Ambient
OUA0015A	2A	Boeuf River near Costello, LA on SR835	Mississippi Alluvial Plain		Ambient
WHI0006A	4H	Warm Fork of Spring River on CR268 near Thayer, MO	Ozark Highlands		Ambient

Appendix B

List of Parameters for Regular Monthly Sampling and Analysis¹⁹

Parameter	Analysis by
Dissolved Oxygen	Field (Planning, Lake, Ambient)
pH	Field (Planning, Lake, Ambient)
Temperature	Field (Planning, Lake, Ambient)
Solids – TSS, TDS, TS, VSS	Laboratory
Nutrients – Ammonia, Nitrate+Nitrite, o-Phosphorus, TKN, Total	Laboratory
Phosphorus	
Alkalinity	Laboratory
Specific Conductance	Laboratory
Turbidity	Laboratory
Anions – Fluoride, Chloride, Bromide, Sulfate	Laboratory
Total or Dissolved Organic Carbon	Laboratory
Metals – Aluminum, Antimony, Arsenic, Barium, Beryllium,	Laboratory
Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese,	
Nickel, Selenium, Silver, Thallium, Vanadium, Zinc, Calcium,	
Magnesium, Potassium, Sodium	
Biochemical Oxygen Demand, Carbonaceous BOD, Chemical	Laboratory
Oxygen Demand	
Hardness	Laboratory
Chlorophyll a ²⁰	Laboratory
Fecal Coliform and <i>E. coli</i> ²¹	Laboratory
Oil & Grease, Total Petroleum Hydrocarbons ²²	Laboratory

¹⁹ All samples may not be analyzed for all of the listed parameters.
²⁰ As requested.
²¹ As requested.
²² As requested.

Appendix C

AR County	People of Color	Low Income	Unemploy- ment Rate	Linguis- tically Isolated	Less Than HS Education	Under 5 years old	Over 64 years old	Qualifying Counties No. out of 7 Indices
Arkansas	30	42	6	1	16	6	19	6
Ashley	32	43	5	1	17	6	20	6
Baxter	5	38	5	0	11	4	31	3
Benton	27	28	2	3	11	7	13	2
Boone	6	41	5	0	13	6	20	5
Bradley	45	43	8	3	19	6	18	7
Calhoun	28	37	4	0	16	5	21	4
Carroll	20	38	4	2	14	6	23	5
Chicot	61	56	10	0	19	6	20	6
Clark	31	44	2	2	10	5	16	4
Clay	5	44	5	0	18	6	21	3
Cleburne	5	36	4	0	14	5	27	3
Cleveland	15	40	5	0	10	5	20	3
Columbia	41	49	11	0	14	6	17	6
Conway	18	41	7	1	13	6	19	5
Craighead	24	40	6	1	11	7	14	3
Crawford	16	41	5	2	15	6	16	6
Crittenden	58	48	9	1	17	8	14	5
Cross	37	39	6	0	16	6	16	6
Dallas	47	43	3	0	16	5	22	4
Desha	55	55	8	3	19	6	19	7
Drew	34	40	4	0	13	6	17	5
Faulkner	20	36	4	1	8	6	12	2
Franklin	8	44	3	0	16	6	19	4
Fulton	5	48	6	1	14	5	26	4
Garland	18	41	5	2	11	5	23	4
Grant	7	35	4	0	9	5	18	2
Greene	7	40	8	0	12	6	16	5
Hempstead	45	45	5	2	17	7	18	7
Hot Spring	17	41	6	1	14	5	19	4
Howard	36	48	7	2	15	7	18	7
Independence	11	44	5	1	14	7	17	5
Izard	7	42	9	0	16	5	25	4
Jackson	23	53	8	0	20	5	18	4
Jefferson	61	45	9	1	14	6	17	6
Johnson	21	51	4	4	21	6	16	5
Lafayette	41	53	5	1	20	6	23	6
Lawrence	5	44	7	0	16	6	19	5
Lee	55	51	12	1	24	5	19	5
Lincoln	36	43	2	0	19	4	15	3
Little River	27	41	10	0	11	6	21	4

AR County	People of Color	Low Income	Unemploy- ment Rate	Linguis- tically Isolated	Less Than HS Education	Under 5 years old	Over 64 years old	Qualifying Counties No. out of 7 Indices
Logan	10	45	6	0	14	6	20	5
Lonoke	14	32	4	0	11	7	13	2
Madison	11	42	4	2	19	7	19	5
Marion	6	44	5	0	13	4	28	4
Miller	32	41	7	0	14	6	16	6
Mississippi	42	48	9	1	19	7	14	5
Monroe	46	47	8	0	21	6	23	6
Montgomery	9	47	8	1	20	5	27	4
Nevada	37	51	6	0	10	6	20	5
Newton	6	42	4	0	14	4	25	3
Ouachita	45	47	8	0	14	6	20	6
Perry	5	37	6	0	15	6	20	5
Phillips	65	56	11	0	20	7	18	6
Pike	13	44	5	1	13	5	20	4
Poinsett	13	44	6	1	20	6	18	5
Polk	12	50	9	1	15	6	22	5
Pope	16	44	6	3	16	6	15	5
Prairie	15	43	7	0	17	5	23	4
Pulaski	48	37	5	2	10	7	15	5
Randolph	6	49	4	0	17	6	20	4
Saline	15	25	4	1	9	6	18	2
Scott	16	51	8	2	21	7	21	6
Searcy	7	51	4	0	18	5	25	3
Sebastian	30	43	5	3	16	7	16	7
Sevier	43	48	5	10	23	8	14	6
Sharp	7	53	4	0	17	5	26	3
St. Francis	60	54	6	0	18	6	16	6
Stone	5	49	6	0	19	5	27	4
Union	39	42	5	1	15	7	17	6
Van Buren	7	47	7	0	15	5	26	4
Washington	29	39	5	4	15	7	11	6
White	12	41	6	1	16	6	16	5
Woodruff	31	38	8	0	18	6	23	6
Yell	25	47	4	4	22	6	17	5
State Average	28	40	5	2	13	6	17	
US Average	40	31	5	5	12	6	16	

Appendix D

Maps of Environmental Justice Indices in Arkansas





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Map 2: Arkansas Counties EJ Indices-Low Income



Map 3: Arkansas Counties EJ Indices—Unemployment Rate

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Map 4: Arkansas Counties EJ Indices-Linguistically Isolated

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Map 5: Arkansas Counties EJ Indices-Less Than High School Education



Map 6: Arkansas Counties EJ Indices-Under 5 Years Old



Map 7: Arkansas Counties EJ Indices—Over 64 Years Old

Appendix E

Letter to Arkansas Regional Planning Organizations





January 31, 2023

Arkansas Regional PlanningOrganizations

Dear Organization Directors,

Each year the Arkansas Department Energy and Environment, Division of Environmental Quality(DEQ) is awarded federal grant funds under section 604(b) of the Clean Water Act. DEQ utilizes these funds to offset some of the costs incurred in analytical testing of ambient water samples as a component of our long-range water quality assessment program for Arkansas waterbodies. Pursuant to Section 205(j) of the Clean Water Act, the state shall offer up to forty percent (40%) of their 604(b) funds to Arkansas Regional Planning Organizations to develop and implement water quality sampling and testing activities that complement the statewide ambient monitoring project.

In evaluating proposals submitted in response to this letter, DEQ will give additional consideration to projects that prioritize water quality sampling and analysis in areas of environmental justice concern

If the Arkansas Regional Planning Organization has the capability to collect and test ambient water quality samples in accordance with a Quality Assurance Project Plan, which DEQ has approved, and using a laboratory accredited pursuant to Ark. Code Ann. § 8-2-201 *et seq.*, and is interested in potentially providing this service to work in cooperation with DEQ in the statewide water quality monitoring project, please contact Lessie Redican at 501.682.0937 or by em ail at <u>lessie.redican@adeq.state.ar.us</u> by February 10, 2023. Interested parties must submit a complete proposal by the close of business March 31, 2023, in order to allow DEQ sufficient time for review and consideration. Proposal information and requirements are provided on the attached page.

Thank you for your consideration.

Sincerely,

Cellen - -

Alan J. York Associate Director DEQ, Office of Water Quality 5301 Northshore Drive North Little Rock, AR 72218

ARKANSAS DEPARTMENT OF ENERGY AND ENVIRONMENT

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Letter from Governor of Arkansas



STATE OF ARKANSAS SARAH HUCKABEE SANDERS GOVERNOR

Dr. Earthea Nance Regional Administrator US EPA Region 6 1201 Elm Street, Suite 500 Dallas, TX 75270

Re: Clean Water Act Pass through Monies FY23 Section 604(b) Assistance Agreement

Dear Dr. Nance:

In accordance with Section 205(j)(3) of the 1987 Water Quality Act, I am requesting the full amount of the 604(b) funds for FFY 2023, including the additional funds available through the Infrastructure Investment and Jobs Act, be allocated to the Arkansas Department of Energy and Environment – Division of Environmental Quality.

In January 2023, the Division notified each of the nine Regional Planning Organizations in the State of Arkansas of the funds available for water quality monitoring projects and provided those organizations an opportunity to request funds by proposing water quality monitoring projects for FY 2023. These Regional Planning Organizations serve the seventy-five counties of Arkansas with each organization representing multiple counties with overburdened and underserved communities. The Division received one proposal requesting funding for a project in northwest Arkansas; however, that Regional Planning Organization subsequently withdrew their proposal after identifying a different funding source for the proposed project. No other Regional Planning Organizations submitted a request for funding to the Division.

> State Capitol Building • Little Rock, AR 72201 Telephone: (501) 682-2345 www.governor.arkansas.gov

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The Division maintains a robust water quality monitoring program with an in-house accredited laboratory to analyze ambient water samples from hundreds of monitoring sites around the state. In order for the Division to maintain its high level of monitoring of the state's surface waters, and continue to provide data about the health of the state's surface waters to all Arkansans, I am requesting the full amount of 604(b) funds, including the additional funds available through the Infrastructure Investment and Jobs Act, be awarded to the Arkansas Department of Energy and Environment – Division of Environmental Quality.

Your prompt attention to this matter is most appreciated.

Sincerely,

Sarah Huckabee Sanders Governor of Arkansas

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Clearinghouses and Mailing Information

Arkansas State Clearinghouse (SPOC)

1515 W 7th St, Rm 400A	Manager: Letha Bell	
PO Box 8031		
Little Rock, AR 72203-8031	Phone: 501-682-1074	email: igsclearinghouse@dfa.arkansas.gov

Central Arkansas Planning and Development District, Inc.

902 N Center	Executive Director: Rodney Larsen	Certified Mail
PO Box 300	Contact: Christy Stanfill	9489009000276186090244
Lonoke, AR 72086-0300	Phone: 501-676-2721 or 501-376-4119	Received 02/08/2023
	Fax: 501-676-5020	
		11

Counties Served: Faulkner, Lonoke, Monroe, Prairie, Pulaski and Saline

White River Planning and Development District

1652 White Dr	Executive Director: Jan Smith	Certified Mail
PO Box 2396	Phone: 870-793-5233	9489009000276186090329
Batesville, AR 72503	Fax: 870-793-4035	Received 02/27/2023
Counties Served: Cleburne, Fulton, Independence, Izard, Jackson, Sharp, Stone, Van Buren, White and Woodruff		

East Arkansas Planning and Development District, Inc.

2905 King St	Executive Director: Melissa Rivers	Certified Mail
PO Box 1403	Contact: Jamie Brockwell	9489009000276186090336
Jonesboro, AR 72403	Phone: 870-932-3957	Received 02/10/2023
	Fax: 870-932-0135	

Counties Served: Clay, Craighead, Crittenden, Cross, Greene, Lawrence, Lee, Mississippi, Phillips, Poinsett, Randolph and St. Francis

Northwest Arkansas Economic Development District, Inc.

818 Hwy 62-165 412 North	Executive Director: Joe Willis	Certified Mail
PO Box 190	Contact: Libby Robinson	9489009000276186090251
Harrison, AR 72602-0190	Phone: 870-741-5404	Received 02/07/2023
	Fax: 870-741-1905	

Counties Served: Baxter, Boone, Carroll, Madison, Marion, Newton and Searcy

Northwest Arkansas Regional Planning Commission

1311 Clayton	Executive Director: Jeff Hawkins	Certified Mail 9489009000276186090268
Springdale, AR 72762	Contact: Jeff Hawkins	Received 02/09/2023
	Phone: 479-751-7125	
	Fax: 479-751-7150	
	1 3 3 7 1 1 /	

Counties Served: Benton and Washington

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Southeast Arkansas Economic Development District, Inc.

721 S Walnut	Executive Director: Gene Higginbotham	Certified Mail 9489009000276186090275
PO Box 6806	Phone: 870-536-1971	Received 02/07/2023
Pine Bluff, AR 71611	Fax: 870-536-7718	
Counties Served: Arkansas, Ashley, Bradley, Chicot, Cleveland, Desha, Drew, Grant, Jefferson		
and Lincoln		

Southwest Arkansas Planning and Development District

101 Harvey Couch Blvd.	Executive Director: Renee Dycus	Certified Mail
PO Box 767	Contact: Shelley Morehead	9489009000276186090299
Magnolia, AR 71753-2322	Phone: 870-234-4030	Received 02/06/2023
	Fax: 870-234-0135	

Counties Served: Calhoun, Columbia, Dallas, Hempstead, Howard, Lafayette, Little River, Miller, Nevada, Ouachita, Sevier and Union

West Central Arkansas Planning and Development District

1000 Central Avenue	Executive Director: Dwayne Pratt	Certified Mail
PO Box 6409	Contact: Darian Piper	9489009000276186090312
Hot Springs, AR 71902-6409	Phone: 501-525-7577	Received 02/06/2023
	Fax: 501-525-7677	

Counties Served: Clark, Conway, Garland, Hot Spring, Johnson, Montgomery, Perry, Pike, Pope and Yell

Western Arkansas Planning and Development District

1109 S 16th St	Executive Director: Sasha Grist	Certified Mail
Fort Smith, AR 72902	Contact: Christy Stanfill	9489009000276186090282
	Phone: 479-785-2651	Received 02/01/2023 by email; certified mail was returned to sender
	Fax: 479-785-1964	

Counties Served: Crawford, Franklin, Logan, Polk, Scott and Sebastian