

EXHIBIT A

BLACKLINE VERSION OF APCEC REGULATION NO. 2

ARKANSAS POLLUTION CONTROL AND ECOLOGY COMMISSION



REGULATION NO. 2

REGULATION ESTABLISHING WATER QUALITY STANDARDS FOR SURFACE WATERS OF THE STATE OF ARKANSAS

MARK-UP DRAFT

Adopted by the Arkansas Pollution Control and Ecology Commission: January 25, 2019

grease shall be an average of no more than 10 mg/L or a maximum of no more than 15 mg/L. No mixing zones are allowed for discharges of oil and grease.

Reg. 2.511 Mineral Quality

(A) Site Specific Mineral Quality Criteria

Mineral quality shall not be altered by municipal, industrial, other waste discharges or instream activities so as to interfere with designated uses. The following criteria apply to the streams indicated.

<u>Stream</u>	<u>Concentration-mg/L</u>		
	<u>Chlorides</u> (Cl ⁻)	<u>Sulfates</u> (SO ₄ ⁼)	<u>TDS</u>
Arkansas River Basin			
Arkansas River (Mouth to Murray Lock and Dam [L&D #7])	250	100	500
Bayou Meto (Rocky Branch to Bayou Two Prairie)	64*	ER	ER
Bayou Meto (mouth to Pulaski/Lonoke county line)	95**	45**	ER
Bayou Two Prairie (Pulaski/Lonoke county line to Northern boundary of Smoke Hole Natural Area)	95**	45**	ER
Bayou Two Prairie (Southern boundary of Smoke Hole Natural Area to Mouth)	95**	45**	ER
Rocky Branch Creek	64*	ER	ER
Little Fourche Creek (Willow Springs Branch to Fourche Creek)	ER	ER	179
Willow Springs Branch (McGeorge Creek to Little Fourche Creek)	ER	112	247
McGeorge Creek (headwaters to Willow Springs Branch)	ER	250	432
Arkansas River (Murray Lock and Dam [L&D #7] to Dardanelle Lock and Dam [L&D #10])	250	100	500
Cadron Creek	20	20	100
Arkansas River (Dardanelle Lock and Dam [L&D #10] to Oklahoma state line, including Dardanelle Reservoir)	250	120	500
James Fork	20	100	275
Illinois River	20	20	300
Poteau River from <u>confluence of Unnamed trib to US Hwy 59 Bridge</u>	120	60	500
<u>Business US Hwy 71 to Oklahoma state line</u>	185	200	786
Unnamed trib <u>from Tyson-Waldron Outfall 001 to confluence with the Poteau River</u> at Waldron	150	70	660
	180	200	870
White River Basin			
White River (Mouth to Dam #3)	20	60	430
Big Creek	20	30	270
Unnamed trib from Frit Ind.	ER	48*	ER
Cache River	20	30	270
Bayou DeView (from Mouth to AR Hwy 14)	48	37.3	411.3

SPECIFIC STANDARDS: ARKANSAS RIVER VALLEY ECOREGION

(Plates ARV-1, ARV-2, ARV-3)

	<u>Streams</u>	<u>Lakes and Reservoirs</u>
Temperature °C (°F)*	31 (87.8)	32 (89.6)
Trout waters	20 (68)	
Arkansas River	32 (89.6)	
Turbidity(NTU) (base/all)	21/40	25/45
Arkansas River(base/all)	50/52	
Minerals	see Reg. 2.511	see Reg. 2.511
Dissolved Oxygen (mg/L)**	<u>Pri.</u> <u>Crit.</u>	see Reg. 2.505
<10 mi ² watershed	5 2	
10 to 150 mi ²	5 3	
151 mi ² to 400 mi ²	5 4	
>400 mi ² watershed	5 5	
Trout waters	6 6	
All other standards	(same as statewide)	

Site Specific Standards Variations Supported by Use Attainability Analysis

Dardanelle Reservoir - maximum temperature 35 °C (95 °F) (limitation of 2.8 °C above natural temperature does not apply) (ARV-2, #1)

Poteau River from **confluence with Unnamed tributary to U.S. Highway 59 Bridge** ~~Business Highway 71 to Oklahoma state line~~ - chlorides – ~~120~~**185** mg/L; sulfates – ~~60~~**200** mg/L; TDS – ~~500~~**786** mg/L (ARV-1, #2)

Unnamed tributary **from Tyson-Waldron Outfall 001 to confluence with the Poteau River** ~~to Poteau River at Waldron~~ - chlorides ~~150~~**180** mg/L; sulfates – ~~70~~**200** mg/L; TDS - ~~660~~**870** mg/L (ARV-1, #3)

* Increase over natural temperatures may not be more than 2.8°C (5°F).

** At water temperatures ≤10°C or during March, April and May when stream flows are 15 cfs and greater, the primary season dissolved oxygen standard will be 6.5 mg/L. When water temperatures exceed 22°C, the critical season dissolved oxygen standard may be depressed by 1 mg/L for no more than 8 hours during a 24-hour period.

Plate ARV-1 (Arkansas River Valley)

