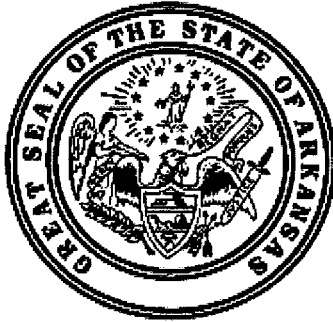


EXHIBIT A

BLACKLINE VERSION OF APCEC REGULATION NO. 2 SHOWING PROPOSED AMENDMENT

ARKANSAS POLLUTION CONTROL AND ECOLOGY COMMISSION



REGULATION NO. 2

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

INITIAL DRAFT

Submitted to the Arkansas Pollution Control and Ecology Commission on October 25, 2013

banks and/or bottoms of the watercourses or adversely affect any of the associated biota. As a guideline, oil and grease shall not exceed 10 mg/l average or 15 mg/l maximum when discharging to surface waters. 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 limits apply to the streams indicated, and represent the monthly average concentrations of chloride (Cl⁻), sulfate (SO₄⁼) and total dissolved solids (TDS).

<u>Stream</u>	<u>Concentration-mg/L</u>		
	<u>Cl⁻</u>	<u>SO₄⁼</u>	<u>TDS</u>
Arkansas River Basin			
Arkansas River (Mouth to L&D #7)	250	100	500
Bayou Meto (Rocky Branch to Bayou Two Prairie)	64*	ER	ER
Bayou Meto (mouth to Bayou Two Prairie)	95**	45**	ER
Bayou Two Prairie (mouth to Rickey Branch)	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 (L&D #7 to L&D #10)	250	100	500
Cadron Creek	20	20	100
Arkansas River (L&D #10 to Oklahoma line, including Dardanelle Reservoir)	250	120	500
James Fork	20	100	275
Illinois River	20	20	300
Poteau River from Business Hwy 71 to Stateline	120	60	500
Unnamed trib at Waldron	150	70	660
White River Basin			
White River (Mouth to Dam #3)	20	60	430
<u>White River (from River Mile 17.25 to River Mile 11.6)</u>	<u>60</u>	<u>100</u>	<u>440</u>
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
Bayou Deview (from AR Hwy 14 to Whistle Ditch)	48	38	411.3
Big Creek (from Whistle Ditch to mouth of Unnamed trib)	58	49	ER
Unnamed trib to Big Creek	71	60	453
Lost Creek Ditch	20	30	270

Use Variations Supported by UAA or Other Investigations

- Railroad Hollow Creek - no fishable/swimmable uses (OH-1, #1)
- Columbia Hollow Creek - seasonal fishery March-June (OH-1, #2)
- Curia Creek - below first waterfall, perennial fishery (OH-4, #3)
- Moccasin Creek - below Highway 177, perennial fishery (OH-3, #4)
- Stennitt Creek- from Brushy Creek to Spring River, no domestic water supply use (OH-4)

SPECIFIC STANDARDS: OZARK HIGHLANDS ECOREGION
 (Plates OH-1, OH-2, OH-3, OH-4)

	<u>Streams</u>	<u>Lakes and Reservoirs</u>
Temperature °C (°F)*	29 (84.2)	32 (89.6)
Trout waters	20 (68)	
Turbidity (NTU) (base/all)	10/17	25/45
Minerals	see Reg. 2.511	see Reg. 2.511
Dissolved Oxygen**	<u>Pri.</u> <u>Crit</u>	see Reg. 2.505
<10 mi ² watershed	6 2	
10 to 100 mi ²	6 5	
>100 mi ² watershed	6 6	
Trout waters	6 6	

All other standards (same as statewide)

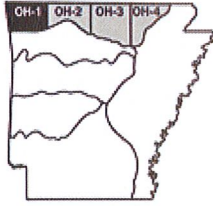
Variations Supported by UAA

- Railroad Hollow Creek: from headwaters to Spavinaw Creek - year-round dissolved oxygen - 2 mg/l (OH-1, #1)
- Curia Creek - below first waterfall, critical season D.O. 6 mg/l (OH-4, #3)
- Moccasin Creek - below Highway 177, critical season D.O. 5mg/l (OH-3, #4)
- SWEPCO Reservoir - maximum temperature 54°C (limitation of 2.8°C above natural temperature does not apply) (OH-1, #5)
- Stennitt Creek - from Brushy Creek to Spring River, TDS = 456 mg/l (OH-4, #6)
- White River - from River Mile 17.25 to River Mile 11.6, chloride = 60 mg/L, sulfate = 100 mg/L, TDS = 440 mg/L (OH-1, #7)**






* 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 D.O. standard will be 6.5 mg/l. When water temperatures exceed 22°C, the critical season D.O. standard may be depressed by 1 mg/l for no more than 8 hours during a 24-hour period.

Plate OH-1 (Ozark Highlands)



LEGEND

-  - Ecologically Sensitive Waterbodies
-  - Trout Waters
-  - Extraordinary Resource Waters
-  - Natural and Scenic Waterways
-  - Variation by UAA

