Attachment A To Exhibit B

Black-lined version of proposed changes to Regulation No. 2

Arkansas Pollution Control & Ecology Commission #014.-002

ARKANSAS POLLUTION CONTROL AND ECOLOGY COMMISSION



REGULATION NO. 2

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

DRAFT

Submitted to the Arkansas Pollution Control and Ecology Commission October, 2006

Arkansas Pollution Control and Ecology Commission Regulation No. 2, As Amended

Regulation Establishing Water Quality Standards for Surface Waters of the State of Arkansas

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Stream		Pollution Control and Ecology Commission 014.00-002 Concentration-mg/L				
Ouachita	River Basin	1	CI	SO4	TDS	
	Bayou Bartholomew		50	20	200	
B2	Chemin-A- Haut Creek		50	20	500	
	Overflow Creek			20	500	
F	Bayou Macon		20	30	170	
	Bocuf River		30	40	330	
	Big Cornie Creek		90	30	500	
	Little Cornie Creek		230	30	500	
	Three Creek		200	10	400	
ा	ittle Comie Bayou		250	10		
	Valker Branch		200	20	500	
	Jum Creek		180		970	
			104*	ER	311*	
	outre Creek - from Hwy 15 South to the confluence					
	of Bayou de Loutre		256	997*	1756*	
1	layou de Loutre - from Loutre Creek to the discharge for					
	the City of El Dorado South facility		264*	635*	1236*	
1	layou de Loutre - from the discharge from the City of					
	El Dorado-South downstream to the mouth of Gum Creek		250	431*	966*	
	Bayou de L'Outre above Gum Creek	3	250	90	500	
	Bayou de L'Outre below Gum Creek	23	250	90	750	
Ŧ	Bayou de Loutre - from the mouth of Gum Creek					
	downstream to the mouth of Boggy Creek	0	250*	345*	780*	
E	Bayou de Loutre - from the mouth of Boggy Creek					
	downstream to the mouth of Hibank Creek	- 2	250*	296*	750*	
1	layou de Loutre - from the mouth of Hibank Creek					
	downstream to the mouth of Mill Creek		250=	263*	750*	
E	Bayou de Loutre - from the mouth of Mill Creek			- married		
	downstream to the mouth of Buckaloo Branch		250*	237*	75()=	
E	sayou de Loutre - from the mouth of Buckaloo Branch			200 L	Cardon Cardon	
	downstream to the mouth of Bear Creek		250*	216*	750*	
T	layou de Loutre - from the mouth of Bear Creek to the	1		110	190	
	final segment of Bayou de Loutre	3	250*	198*	750*	
Ŧ	Bayou de Loutre (Final Segment) - from the mouth of Bear		4257	120	1.40	
	Creek to the Arkansas/Louisiana State Line		250*	171*	750*	
Ouachita	River (Louisiana Line to Camden)		160	40	350	
	Saline River		20	40		
	Saline River east bifurcation at Holly Creek		ER	12370	120	
	Hurricane Cr above Hurricane Lake Dam		20	250	500	
	Hurricane Cr from Hurricane Lk. Dam to Ben Ball Brdg			250	500	
	Ben Ball Bridge to Hwy 270		125	730	1210	
	Hwy 270 to Saline River		125	700	1200	
			100	500	1000	
	Alcoa unnamed tribs to Hurricane Cr.		125	700	1100	
	Dry Lost Creek and tribs		ER	560	880	
	Lost Creek to Little Lost Creek		ER	510	820	
	Lost Creek below Little Lost Creek		ER	300	550	
	Holly Creek		30	860	1600	
	Moro Creek		30	20	260	
1	Smackover Creek		250	30	500	
Ouachita I	River (Camden to Carpenter Dam)		50	40	150	
	Town Creek below Acme tributary		ER	200	700	
	Unnamed trib from Acme	1	ER	330	830	
	Little Missouri River		10	90	180	
	Muddy Fork Little Missouri	1	ER	250	500	
	Bluff Creek and unnamed trib.	1	ER	651*	1033*	
	Garland Creek		250	250	500	
	South Fork Caddo		ER	60	128	
	Back Valley Creek		ER	250	500	
0	Duachita River (Carpenter Dam to Headwaters,		A123	202020		
	neluding Lake Ouachita tributaries)		10	10	100	
Red River	지수는 것이 가지 않는 것이 있다. 이 가지 않는 것이 있는 것이 같은 것이 있는 것이 같은 것이 없는 것이 없다. 것이 같은 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 것이 없는 것이 없다. 같이 없는 것이 않는 것이 없는 것이 않는 것이 없는 것이 않는 것이 않는 것이 없는 것이 않는 것이 않는 것이 않는 것이 않는 것이 않는 것이 않이 않는 것이 없는 것이 없는 것이 않는 것이 않이 않는 것이 않이 않는 것이 않는 것이 않이 않는 것이 않이 않이 않는 것이 않이 않이 않이 않이 않이 않이 않이 않		1976)	12.80	793/5	
E	Bayou Dorcheat		100	16*	250	
	5-10			1925	(1990)))	

REGULATION 2 BLACK LINE

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tream	Concen	Concentration-mg/L			
	<u>C1</u>	\underline{SO}_4^{\pm}	TDS		
Albemarle unnamed trib (AUT) to Horsehead Creek	137*	ER	383*		
Horschead Creek from AUT to mouth	85*	ER	260		
Cypress Creek	250	70	500		
Crooked Creek	250	10	500		
Dismukes Creek	26	ER	157		
Big Creek from Dismukes to Bayou Dorcheat	20	ER	200		
Bois d'Arc Creek from Caney Creek to Red River	113*	283*	420*		
Caney Creek	113*	283*	420*		
Bodcau Creek	250	70	500		
Poston Bayou	120	40	500		
Kelley Bayou	90	40	500		
Red River from Oklahoma to confluence with Little River	250	200	850		
Red River from Little River to Louisiana	250	200	500		
Sulphur River	120	100	500		
Days Creek	250	250	500		
McKinney Bayou	180	60	480		
Little River	20	20	100		
Saline River	20	10	90		
Mine Creek from Hwy 27 to Millwood Lake	90	65	700		
Cossatot River	10	15	70		
Upper Rolling Fork	20	20	100		
Rolling Fork from unnamed trib A to DeQueen Lake	130	70	670		
Unnamed tribs A and A1 at Grannis	135	70	700		
Mountain Fork	20	20	110		
lississippi River (Louisiana line to Arkansas River)	60	150	105		
lississippi River (Arkansas River to Missouri line)	60 60	150	425		
assissippi forei (arkansas forei to ivitssouri mic)	00	175	450		

ER - ecoregion standard

* - based on critical background flow of 4 cfs

Any modification of these values must be made in accordance with Reg. 2.306.

The following values determined from Arkansas' least-disturbed ecoregion reference streams are considered to be the maximum naturally occurring levels. For waterbodies not listed above, any discharge which results in instream concentrations more than 1/3 higher than these values for Cl and SO4= or more than 15 mg/l, whichever is greater, is considered to be a significant modification of the water quality. Similarly, such modification exists if the following TDS values are exceeded after being increased by the sum of the increases to Cl and SO4. Such modifications may be made only in accordance with Reg. 2.306.

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Variations Supported by UAA*

Loutre Creek - from headwaters to railroad bridge, critical season D.O. standard - 3 mg/l; primary season

5 mg/l; from railroad bridge to mouth, critical season D.O. - 2 mg/l (GC-2, #1)

Unnamed tributary to Smackover Creek - headwaters to Smackover Creek, year round D.O. criteria - 2 mg/l (GC-2, #2)

Unnamed tributary to Flat Creek - from headwaters to Flat Creek, year round D.O. criteria - 2 mg/l (GC-2, #4) Dodson Creek - from headwaters to confluence with Saline River, critical season D.O. standard - 3 mg/l (GC-4, #5) Jug Creek - from headwaters

to confluence with Moro Creek, critical season D.O. standard - 3 mg/l (GC-2, #6)

Lick Creek - from headwaters to Millwood Reservoir, critical season D.O. standard - 2 mg/l (GC-l, #7)

Coffee Creek and Mossy Lake - exempt from Reg. 2.406 and Chapter Five (GC-3, #8)

Red River from Oklahoma to confluence with Little River - total dissolved solids - 850 mg/l (GC-l, #9)

Bluff Creek and unnamed trib. - sulfates 651 mg/l; total dissolved solids 1033 mg/l(GC-l,#10)

Muddy Fork Little Missouri River - sulfates 250 mg/l; total dissolved solids 500 mg/l(GC-1,#24)

Little Missouri River - sulfates 90 mg/l; total dissolved solids 180 mg/l(GC-1,#25)

Mine Creek from Highway 27 to Millwood Lake - chlorides - 90 mg/l; sulfates - 65 mg/l; TDS - 700 mg/l (GC-l, #11) Caney Creek - chlorides 113 mg/l; sulfates 283 mg/l; total dissolved solids 420 mg/l(GC-l, #12)

Bois d'Arc Creek from Caney Creek to Red River - chlorides 113 mg/l; sulfates 283 mg/l; dissolved solids 420 mg/l(GC-1,#13)

Town Creek below Acme tributary - sulfates 200 mg/l; TDS 700 mgll(GC-4,#14)

Unnamed trib. from Acme - sulfates 330 mg/l; TDS 830 mg/l(GC-4,#14)

Gum Creek - chlorides 104 mg/l; TDS 311 mg/l(GC-2,#15)

Bayou de Loutre from Gum Creek to State line - Chlorides 250 mg/l; TDS solids 750 mg/l(GC-2,#16)

Walker Branch - chlorides 180 mg/l; total dissolved solids 970 mg/l(GC-2,#17)

Ouachita River - from Ouachita River mile(ORM) 223 to the Arkansas-Louisiana border(ORM 221.1),site specific seasonal D.O.criteria: 3 mg/l June and July; 4.5 mg/l August; 5 mg/l September through May. These seasonal criteria may be unattainable during or following naturally occurring high flows,(Le., river stage above 65 feet measured at the lower gauge at the Felsenthal Lock and Dam, Station No.89-0, and also for the two weeks following the recession of flood waters below 65 feet), which occurs from May through August. Naturally occurring conditions which fail to meet criteria should not be interpreted as violations of these criteria (GC-3, #26)

Alcoa unnamed trib. to Hurricane Cr. And Hurricane Cr. - see Reg. 2.511(CG-4.#19)

Holly Creek - See Reg. 2.511(CG-4,#20)

Saline River bifurcation - see Reg. 2.511(GC-4,#23)

Dry Lost Creek and tributaries - see Reg. 2.511(GC-4,#2I)

Lost Creek - see Reg. 2.511(GC-4,#22)

Albemarle unnamed trib (AUT) to Horsehead Creek - chlorides 137 mg/l; TDS 383 mg/l(GC-2,#27)

Horschead Creek from AUT to mouth - chlorides 85 mg/l; TDS 260 mg/l(GC-2,#27)

Bayou Dorcheat - sulfates 16 mg/l(GC-2,#27)

Dismukes Creek chlorides 26 mg/l; TDS 157 mg/l (GC-2, #28)

Big Creek from Dismukes to Bayou Dorcheat - chlorides 20 mg/l; TDS 200 mg/l (GC-Z, #28)

Bayou de Loutre from Great Lakes Outfall to Loutre Creek - maximum water temperature 96°F (GC-2, #29) Unnamed tributary of Lake June below Entergy Couch Plant to confluence with Lake June maximum water

temperature 95 degrees F (limitation of5 degrees above natural temperature does not apply) (GC-1, #30).

Loutre Creek from Hwy 15 South to the confluence of Bayou de Loutre Chloride, 256mg/l: Sulfate 997mg/l, TDS, 1756* (GC-3, #41)

Bayou de Loutre from Loutre Creek to the discharge for the City of El Dorado South facility Chloride, 264mg/l, Sulfate 635mg/l, TDS, 1236* (GC-3, #42)

Bayou de Loutre from the discharge from the City of El Dorado-South downstream to the mouth of Gum Creek. Chloride, 250mg I: Sulfate 431mg/L TDS, 966 (GC-3, #43)

Bayou de Loutre from the mouth of Gum Creek downstream to the mouth of Boggy Creek Chloride, 250mg/l; Sulfate 345mg/l, TDS, 780 (GC-3, #44)

Bayou de Loutre from the mouth of Boggy Creek downstream to the mouth of Hibank Creek Chloride, 250mg/L Sulfate 296mg/L TDS, 750 (GC-3, ≠45)

Bayou de Loutre from the mouth of Hibank Creek downstream to the mouth of Mill Creek Chloride, 250mg/l; Sulfate 263mg/l, TDS, 750 (GC-3, #46)

Bayou de Loutre from the mouth of Mill Creek dowastream to the mouth of Buekaloo Branch Chloride, 250mg/L Sulfate 237mg/L TDS, 750 (GC-3, #47)

Bayou de Loutre from the mouth of Buckaloo Branch downstream to the mouth of Bear Creek Chloride, 250mg/l; Sulfate 216mg/l, TDS, 750 (GC-3, #48)

Bayou de Loutre from the mouth of Bear Creek to the final segment of Bayou de Loutre.Chloride, 250mg/l; Sulfate 198mg/l, TDS, 750(GC-3, #49)

Bayou de Loutre (Final Segment) to the Arkansas / Louisiana State Line. Chloride, 250mg/l, Sulfate 171 mg/l, TDS, 750(GC-3, #50)

*Note: numbers 31-36 are reserved for proposed 3rd party rule making by Great Lakes Chemical Company.
*Note: numbers 37-40 are reserved for proposed 3rd party rule making by El Dorado Chemical Company.

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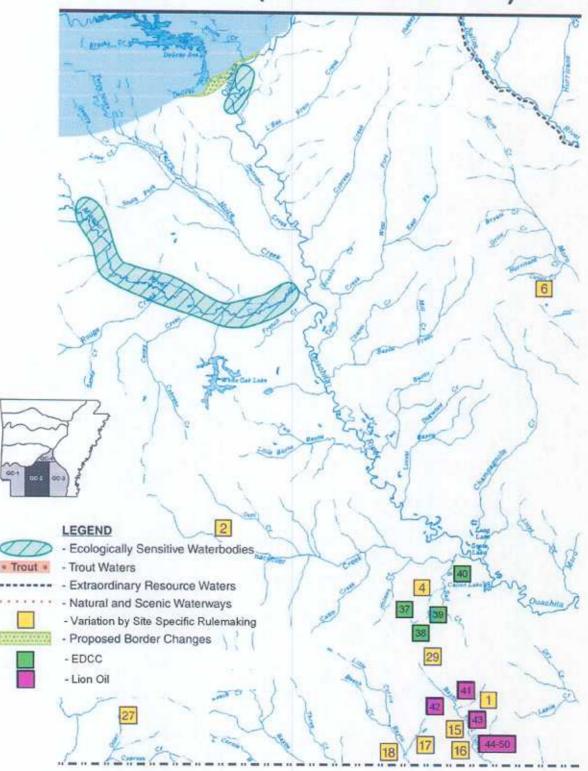


Plate GC-2 (Gulf Coastal Plain)