

# **Interim Strategy for Minerals**

## **Quarterly Report (3<sup>rd</sup> Quarter)**

**Arkansas Department  
of Environmental  
Quality**

**December 15, 2014**

# Interim Strategy for Minerals

## Quarterly Report

### Introduction

Minerals include chlorides (Cl), sulfates (SO<sub>4</sub>), and total dissolved solids ("TDS"). Arkansas has adopted water quality criteria and eco-region values for minerals in Arkansas Pollution Control and Ecology Commission (APC&EC) Regulation 2, specifically, at Reg. 2.511.

Reg. 2.511(A) refers to site-specific criteria. Reg. 2.511(B) refers to Eco-region values, which are based on Arkansas's least disturbed ecoregion reference streams and are considered to be the maximum naturally occurring levels. The eco-region values help identify waterbodies which should be considered as candidates for site specific criteria development. Reg. 2.511(C) set out Arkansas' minerals criteria for domestic water supplies. These criteria are the same as the secondary drinking water standards (250 mg/L for chlorides, 250 mg/L for sulfates and 500 mg/L for TDS) adopted by EPA under the federal Safe Drinking Water Act.

### Permits

Arkansas has issued 33 permits with minerals limits and 30 permits with monitoring and reporting requirements. Twenty-four (24) of those permits are in house for renewal or modification and are currently on hold. The 24 permits currently on hold are listed in the chart below. Information in the chart is as follows:

<u>Column</u>	<u>Description</u>
1	Permit number
2	Facility Name
3	Expiration Date of the permit
4	Existing Permits with minerals requirements (i.e. limit or M&R)
5	Re-issuance (Future) Permits requiring new effluent limits for minerals
6	Basis for including minerals limits in the permit

M&R – Monitoring and Reporting

TDS - Total Dissolved Solids

SO<sub>4</sub>-Sulfates

Cl- Chlorides

CPP-Continuing Planning Process

UAA-Use Attainability Analysis

Permit Number	Facility Name	Expiration Date	Existing Permit Requirements?	New Limits Required?	Basis for Limit
AR0000582	Alcoa Inc. - Arkansas Remediation	9/30/2011	M&R for All	Yes	TMDL
AR0000647	Lion Oil Company - El Dorado Refinery	2/28/2009	Limits-TDS & Sulfates	Yes	Reg. 2.511(C)
AR0000680	Great Lakes Chemical Corporation - South Plant	2/28/2013	No	Yes	TMDL
AR0000752	El Dorado Chemical Company	6/30/2007	Limits-All	Yes	TMDL
AR0001171	Great Lakes Chemical Corporation - Central Plant	12/31/2008	Limits-All	Yes	TMDL
AR0002968	Domtar A.W. LLC - Ashdown Mill	4/30/2012	M&R for TDS & Sulfates	Yes	TMDL
AR0021695	City of Rison	8/31/2014	No	Yes	TMDL
AR0021792	City of Berryville	11/30/2012	M&R for TDS	Yes	303(d)List
AR0022004	City of Huntsville	5/31/2014	M&R for TDS	Yes	303(d) List
AR0022179	City of Junction City	10/31/2014	No	Yes	TMDL
AR0022250	City of Dermott - South Pond	9/30/2011	M&R for TDS & Chlorides	Yes	TMDL
AR0033707	City of Tillar	8/31/2014	No	Yes	TMDL
AR0034037	City of Yellville	2/28/2015	No	Yes	UAA
AR0034321	City of Harrison	9/30/2012	No	Yes	UAA
AR0034371	City of Portland	9/30/2013	No	Yes	TMDL
AR0036498	Benton Utilities - Wastewater Treatment Plant	9/30/2013	No	Yes	TMDL
AR0042951	City of Ashdown	8/31/2014	No	Yes	TMDL
AR0048356	Tyson Foods, Inc. - River Valley Animal Foods	12/31/2012	M&R for TDS	Yes	TMDL
AR0048691	City of Texarkana-North WWTP	10/31/2014	M&R for TDS & Sulfates	Yes	TMDL
AR0049425	Associated Electric Cooperative, Inc. - Dell Power Plant	12/31/2011	M&R for TDS & Sulfates	Yes	Reg. 2.511(A)
AR0050202	Destined To Win/Family Outreach Ministry, Inc. d/b/a Second Chance Ranch	10/31/2014	No	Yes	TMDL
AR0050857	City of Garland WWTP	10/31/2013	No	Yes	TMDL
AR0050989	City of Wilmot	10/31/2013	No	Yes	TMDL
AR0050997	City of Parkdale - Parkdale Wastewater Treatment Plant	11/30/2013	No	Yes	TMDL

## APC&EC Regulation No. 2- Water Quality Standards

Revisions to minerals standards: The 2013 Triennial Review of the surface water quality standards found in Regulation No. 2 included revisions to Reg. 2.511 “Mineral Quality.” These proposed changes were adopted by the Arkansas Pollution Control and Ecology Commission on

February 28, 2014. The State approved regulation was received by USEPA for review and approval on March 16, 2014. To date, EPA has not issued a final decision on the rulemaking.

Revisions to assessment: During development of the Assessment Methodology for the 2014 Listing of Impaired Waterbodies, the exceedance rate for site specific minerals criteria was revised from 10% to 25%.

Progress of the EPA-funded study: Evaluation of three approaches for developing minerals criteria is ongoing.