



OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

PUBLIC NOTICE

January 28, 2014

REQUEST FOR PUBLIC COMMENT ON A PROPOSED MODIFICATION TO OKLAHOMA'S WATER QUALITY MANAGEMENT PLAN FOR THE CITY OF KINGFISHER WASTEWATER TREATMENT FACILITY

Public Comment Period Begins: January 28, 2015

Public Comment Period Ends: March 13, 2015

Permitee: The City of Kingfisher, 301 N Main, Kingfisher, Oklahoma 73750. [Facility Legal Description: SW/NE Section 11, Township 16 North, Range 7 West]

Receiving waters and location: Kingfisher Creek (Latitude: 35° 52' 15" N.; Longitude: -97° 55' 40" W.)

The City of Kingfisher currently operates a wastewater treatment facility that discharges a design flow of 0.80 MGD to [Kingfisher Creek](#). This mechanical wastewater treatment facility is a sequential batch reactor and the City's method of disinfection is using [ultraviolet light](#). This wastewater treatment facility (WWTF) is located in the [Lower Cimarron-Skeleton watershed](#) in [Kingfisher County](#).

During a recent discharge permit renewal, the [Oklahoma Department of Environmental Quality](#) (DEQ) noticed an error in the City's current permit limits. DEQ had conducted a waste load allocation (WLA) study for the City of Kingfisher in 1988 which determined the maximum amount of pollutants in treated wastewater which could safely be discharged into a waterbody without adversely affecting its quality. The WLA approved in 1988 contained limits in terms of Ultimate Carbonaceous Biochemical Oxygen Demand (CBOD_u). CBOD_u is the amount of oxygen needed to completely oxidize all the carbon in the discharge which usually takes about 20 to 30 days. For domestic wastes or wastes exhibiting the same characteristics as domestic wastes, the 20-day values for CBOD (CBOD₂₀) closely approximate the ultimate values. Therefore in conducting WLAs for municipal dischargers, it is common practice to consider the 20-day and ultimate values to be equal.

Sometime after 1998, the CBOD₂₀ was mistakenly interpreted as [5-day Carbonaceous Biochemical Oxygen Demand](#) (CBOD₅) when the WLA was incorporated in Oklahoma's Water Quality Management Plan (WQMP or 208 Plan). The incorrect CBOD limits were established in Kingfisher PWA's discharge permit ever since the October 2003 renewal. To appropriately convert the limits from CBOD_u to CBOD₅, the 30-day average CBOD₂₀ data was collected and measured over a period of one year (January 1997 to December 1997) and the average was determined. The ratio of CBOD₂₀ to CBOD₅ was determined based on the collected analyzed data and that value was used to convert the original WLA from CBOD_u to CBOD₅. This revision of the WQMP proposes to incorporate the correct CBOD₅ values derived from the CBOD_u values in the 1988 WLA.

Spring Limits (April – May): 13 mg/L CBOD₅; 15 mg/L TSS (total suspended solids);
2 mg/L NH₃N (ammonia); 6 mg/L DO (dissolved oxygen)

Summer Limits (June – October): 11 mg/L CBOD₅; 15 mg/L TSS; 2 mg/L NH₃N; 6 mg/L DO

Winter Limits (November – March): 13 mg/L CBOD₅; 15 mg/L TSS; 2 mg/L NH₃N; 6 mg/L DO

The comment period will be open for 45 days. If you have any concerns regarding these proposed limits, **please submit your comments in writing by the end of the workday on March 13, 2015** to:

David Akakpo
 Water Quality Division; Oklahoma DEQ
 P.O. Box 1677; Oklahoma City, OK 73101-1677
 (405) 702-8197
 E-mail: Water.Comments@deq.ok.gov

You may also request a public meeting in writing. If there is a significant degree of public interest, DEQ will schedule a public meeting. After evaluating comments received and making any necessary changes, the WLA will be submitted to the U.S. Environmental Protection Agency (EPA) for final approval.

FACILITY 208: KINGFISHER WWTF		CITY/TOWN: KINGFISHER	
FACILITY LEGAL LOCATION:	S11 T16N R7W SE/NW/SW	COUNTY:	Kingfisher
POD LOCATION:	SE/NW/SW S11 T16N R7W	SEGMENT:	620910
POD LATITUDE:	35° 52' 30.635" N	POD LONGITUDE:	97° 55' 15.509" W
NPDES #:	OK0022811	FACILITY ID #:	S-20920
CURRENT TREATMENT PROCESS:	SEQUENTIAL BATCH REACTOR		
PRESENT AVG. DAILY FLOW (MGD):	0.52	2010 CENSUS POPULATION:	4390 4633
DESIGN AVG. DAILY FLOW (MGD):	0.8	YEAR 2030 PROJECTED POPULATION:	6700-5940
RECEIVING STREAM:	Kingfisher Creek (OK Waterbody ID: OK620910050010_00)		
STREAM CLASS:	Intermittent	7-day 2-year low flow in MGD (7Q2):	0
DMA:	City of Kingfisher/Kingfisher PWA	DMA STATUS:	Approved
WASTELOAD ALLOCATION	Apr-May (Spring): 24-13 mg/L CBOD ₅ , 15 mg/L TSS, 2 mg/L NH ₃ -N, 6 mg/L DO Jun-Oct (Summer): 20-11 mg/L CBOD ₅ , 15 mg/L TSS, 2 mg/L NH ₃ -N, 6 mg/L DO Nov-Mar (Winter): 24-13 mg/L CBOD ₅ , 15 mg/L TSS, 2 mg/L NH ₃ -N, 6 mg/L DO *NEEDS MORE STUDY		
RECOMMENDED TREATMENT ALTERNATIVES			
A)	UPGRADE		
B)	LAND APPLICATION		
C)	CONSOLIDATE OR REGIONAL TREATMENT		
		EPA APPROVAL DATE:	9/16/1998-Pending
		RECORD LAST UPDATED:	9/16/1998-1/27/2015



You are receiving this notice because you are either on DEQ's list to receive all public notices about proposed Waste Load Allocations or you are located downstream in an affected watershed. If you are receiving this notice in error, are getting multiple notices, or do not want to receive future notices, please let us know. In addition to notices about changes in 208 Plans for facilities, the DEQ's TMDL, Modeling, 208, & 303(d) Section sends out public notices about proposed changes in the Integrated Report, proposed TMDLs, 404 projects, 401 Certification requests, and proposed changes in the CPP.

If you would like to receive any or all of these public notices via e-mail, please send your e-mail address to Water.Comments@deq.ok.gov. Also, please let us know if you want to receive notices for the entire State or just for your watershed. **By receiving PDF public notices via e-mail, you will help save money and the environment by reducing the amount of paper we use to mail them.** In addition to helping the environment, you will be able to click on helpful FYI hyperlinks.



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