



Scott Thompson
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Mary Fallin
Governor

PUBLIC NOTICE

February 1, 2017

REQUEST FOR PUBLIC COMMENT ON PROPOSED MODIFICATIONS TO OKLAHOMA'S WATER QUALITY MANAGEMENT PLAN FOR THE BIXBY PUBLIC WORKS AUTHORITY

Public Comment Period Begins: February 1, 2017

Public Comment Period Ends: March 20, 2017

Permitee: Bixby Public Works Authority, P.O. Box 70, 116 W. Needles Ave., Bixby, OK 74008 [Facility Legal Description: Section 13, Township 17 North, Range 13 East, IM]

Receiving waters and location: Arkansas River (Latitude: North 35° 56' 54"; Longitude: West 95° 52' 13")

The Bixby Public Works Authority owns and operates two publicly owned treatment works (POTWs), one that serves residents on the north side of the Arkansas River and one that serves those on the south side. The Bixby Public Works Authority is proposing to eliminate the North Plant, transfer its wastewater to the South Plant, and upgrade the design flow for the South Plant from 0.684 MGD to 5.0 MGD. The current combined design average daily flow from the North and South Plants is 1.537 MGD.

The Wasteload Allocation (WLA) for the Bixby Public Works Authority was developed with the QUAL2K model. To conduct the modeling, an intensive stream study was performed to collect field data from September 2015 to March 2016. Stream data, including flow and velocity, and water quality data, including DO, BOD, nutrients, and Chlorophyll- α , were collected.

The receiving stream, Arkansas River (OK120420010010_00), is currently on Oklahoma's 2014 303(d) List of Impaired Waters as being impaired for enterococcus and turbidity. The enterococcus WLA for Bixby was assigned in the 2008 Arkansas River Total Maximum Daily Load Study. The suspended solids discharged by POTWs consist primarily of organic solids rather than inorganic suspended solids. Discharges of organic suspended solids from POTWs are addressed by the Department of Environmental Quality through its permitting of point sources to maintain Water Quality Standards for dissolved oxygen and are not considered a significant potential source of turbidity.

The WLA study determined maximum amount of pollutants in treated wastewater which can safely discharged into a waterbody without adversely affecting its water quality. The following table shows changes in design flows and limits for the facilities in this study.

Discharger	Design flow (MGD)		Season	WLA (mg/L)	
	Current	Proposed		Current Limits	Proposed Limits
Bixby North	0.853	0.0	Summer	Secondary (30 BOD ₅ , 90 TSS)	No Discharge
			Spring		
			Winter		
Bixby South	0.684	5.0	Summer	Secondary (30 BOD ₅ , 90 TSS)	30 BOD ₅ , 30 TSS
			Spring		
			Winter		

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 20, 2017** to:

Soojung Lim
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405) 702-8192
E-mail: soojung.lim@deq.ok.gov

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

FACILITY 208:	Bixby South		CITY/TOWN:	BIXBY
FACILITY LEGAL LOCATION:	S13 T17N R13E SE/SW/SE		COUNTY:	TULSA
POINT OF DISCHARGE LOCATION:	S13 T17N R13E SE/SW/SE		SEGMENT:	120420
POD LATITUDE:	35° 56' 54" N		POD LONGITUDE:	97° 52' 13" W
OPDES #	OK0026913		Facility ID #:	S-20407
CURRENT TREATMENT PROCESS*:	LAGOON, AERATED MECHANICAL PLANT			
PRESENT AVG. DAILY FLOW (MGD):	0.427	0.766	2010 CENSUS POPULATION:	20,884
DESIGN AVG. DAILY FLOW (MGD)*:	0.684	5.0	YEAR 2035 PROJECTED POPULATION:	48,700
RECEIVING STREAM:	ARKANSAS RIVER (OK Waterbody ID: OK120420010010_00)			
STREAM CLASS:	PERENNIAL	7 DAY 2 YEAR LOW FLOW (MGD)*:		418 794
DMA:	BIXBY PWA		DMA STATUS:	APPROVED
WASTELOAD ALLOCATION*:	Year round: Secondary [30 mg/L BOD ₅ and 90 30 mg/l TSS]			
Recommended Treatment Alternatives:				
A)	Upgrade			
B)	Land Application			

FACILITY 208:	Bixby South	CITY/TOWN:	BIXBY
C)	Total Retention		
		EPA Approval Date:	Pending
		Record Last Updated:	6/1/99
*Updated WLA based on WLA Study (2015 & 2016) in the Arkansas River			

FACILITY 208:	Bixby North	CITY/TOWN:	BIXBY
FACILITY LEGAL LOCATION:	S11 T17N R13E N/NW/SE	COUNTY:	TULSA
POINT OF DISCHARGE LOCATION:	S11 T17N R13E N/NW/SE	SEGMENT:	120420
POD LATITUDE:	35° 57' 50" N	POD LONGITUDE:	95° 53' 32" W
OPDES #	OK0036153	Facility ID #:	S-20438
CURRENT TREATMENT PROCESS:	LAGOON, AERATED		
PRESENT AVG. DAILY FLOW (MGD):	0.339	2010 CENSUS POPULATION:	
DESIGN AVG. DAILY FLOW (MGD)*:	0.853 0.0	YEAR 2035 PROJECTED POPULATION:	
RECEIVING STREAM:	ARKANSAS RIVER (OK Waterbody ID: OK120420010010_00)		
STREAM CLASS:	PERENNIAL	7 DAY 2 YEAR LOW FLOW (MGD):	729
DMA:	BIXBY PWA	DMA STATUS:	APPROVED
WASTELOAD ALLOCATION*:	Year round: Secondary [30 mg/L BOD ₅ and 90 mg/L TSS] No discharge		
Recommended Treatment Alternatives:			
A)	Upgrade		
B)	Land Application		
C)	Total Retention		
		EPA Approval Date:	Pending
		Record Last Updated:	6/1/99
*Updated WLA based on WLA Study (2015 & 2016) in the Arkansas River			



You are receiving this notice because you are either on DEQ's list to receive all public notices about Waste Load Allocations or you are located downstream in an affected watershed. **This notice is for informational purposes only; it is not to be published in the legal section of newspapers.**

If you are receiving this notice in error, are getting multiple notices, or do not want to receive future notices, please let us know.

If you are receiving this in paper form, please help save money and the environment by receiving the notice in PDF format via e-mail. Just send your e-mail address to soojung.lim@deq.ok.gov.