

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

## PUBLIC NOTICE

March 17, 2021

### REQUEST FOR PUBLIC COMMENT ON A PROPOSED MODIFICATION TO OKLAHOMA'S WATER QUALITY MANAGEMENT PLAN FOR CALERA PUBLIC WORKS AUTHORITY

Public Comment Period Begins: March 17, 2021

**Public Comment Period Ends: May 3, 2021**

**Permittee:** Jeremy McKinney, Town Superintendent, Calera Public Works Authority, 110 W. Main, Calera, OK 74730. [Facility Legal Description: SE¼, SW¼, S23 T07S R08E, I.M.]

**Receiving waters and location:** Unnamed tributary of Island Bayou (OK410700000040\_00) (Latitude: 33° 55' 29.261" North; Longitude: 96° 26' 25.108" West)



Calera Public Works Authority (PWA) operates a wastewater treatment plant (WWTP) that serves the citizens of Calera and the surrounding area. The Calera PWA is requesting the design flow be increased from 0.35 million gallons per day (MGD) to 0.48 MGD. This design flow is expected to provide the Town of Calera with adequate capacity for the next 20 years. The facility would discharge 0.48 MGD effluent into the unnamed tributary of Island Bayou (OK410700000040\_00).

Oklahoma's desktop water quality model, based on the modified Streeter-Phelps equation, was used to calculate Wasteload Allocation (WLA) limits during various seasons under regulatory flow condition. The concentrations of CBOD<sub>5</sub> and NH<sub>3</sub> from the point source are increased until the predicted instream DO concentration reaches the DO criteria with a 20% margin of safety (MOS).

The unnamed tributary is not listed in Appendix A of the Oklahoma Water Quality Standards (OAC 785:45).

Therefore, it is assumed to have the designated use of Warm Water Aquatic Community (WWAC). Island Bayou is listed in Appendix A of the Oklahoma Water Quality Standards (OAC 785:45) and its beneficial uses are listed as Aesthetics, Agriculture, Fish and Wildlife Propagation - Warm Water Aquatic Community (WWAC), Fish Consumption, Emergency Water Supply (EWS), and Secondary Body Contact Recreation (SBCR). Island Bayou was last assessed in 2018 and found all beneficial uses to be attained, except Aesthetics beneficial use. Aesthetics beneficial use was assessed as insufficient information. This WLA has been developed in order to ensure that the limits assigned to the discharge are stringent enough to maintain DO standards under critical conditions. The proposed discharge limits for Calera PWA are shown below:

### Calera PWA

Proposed Design Flow: 0.480 MGD  
 Summer Limits (Jun–Oct): 12 mg/L CBOD<sub>5</sub>, 30 mg/L TSS, 5 mg/L NH<sub>3</sub>-N, 4 mg/L DO (min.), or No Discharge  
 Spring Limits (Apr–May): 15 mg/L CBOD<sub>5</sub>, 30 mg/L TSS, 7 mg/L NH<sub>3</sub>-N, 6 mg/L DO (min.), or No Discharge  
 Winter Limits (Nov–Mar): Lagoon Secondary (25 mg/L CBOD<sub>5</sub>, 90 mg/L TSS) & 3 mg/L DO (min)

These limitations are minimum requirements. If a Total Maximum Daily Load (TMDL) is approved for the stream, any more stringent limitations contained in the TMDL will apply. 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 **May 3, 2021** to:

Tamara Scott  
 Water Quality Division  
 Oklahoma Department of Environmental Quality  
 P.O. Box 1677  
 Oklahoma City, OK 73101-1677  
 (405) 702-8234  
 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.

<b>FACILITY 208:</b>	<b>Calera Public Works Authority</b>		<b>CITY/TOWN:</b>	Calera
<b>LEGAL LOCATION:</b>	SE¼, SW¼, S23 T07S R08E		<b>COUNTY:</b>	Bryan
<b>POD LOCATION:</b>	NW¼, NE¼, SW¼, S26 T07S R08E		<b>SEGMENT:</b>	410700
<b>POD LATITUDE:</b>	33° 55' 29.261" N		<b>POD LONGITUDE*:</b>	96° 26' 25.108" W
<b>OPDES #:</b>	<b>OK0031682</b>		<b>FACILITY ID #:</b>	<b>S-10702</b>
<b>CURRENT TREATMENT PROCESS:</b>	Oxidation Ditch			
<b>PRESENT AVG. DAILY FLOW (MGD):</b>	0.350	<b>2020 ESTIMATED POPULATION:</b>	2,416	
<b>DESIGN AVG. DAILY FLOW (MGD)*:</b>	0.480	<b>YEAR 2040 PROJECTED POPULATION:</b>	4,807	
<b>RECEIVING STREAM:</b>	Unnamed tributary of Island Bayou (OK410700000040_00)		<b>Stream Class:</b>	Intermittent
7-day 2-year low flow in MGD (7Q2)	<b>ANNUAL 7Q2</b>	<b>Not available</b>	<b>SPRING 7Q2</b>	<b>Not available</b>
	<b>SUMMER 7Q2</b>	<b>Not available</b>	<b>WINTER 7Q2</b>	<b>Not available</b>
<b>DMA:</b>	Town of Calera / Calera PWA		<b>DMA STATUS:</b>	Approved

FACILITY 208:	Calera Public Works Authority	CITY/TOWN:	Calera
WASTELOAD ALLOCATION*:	Summer Limits (Jun-Oct): 12 mg/L CBOD <sub>5</sub> , 30 mg/L TSS, 5 mg/L NH <sub>3</sub> -N, 4 mg/L DO (min.), or No Discharge Spring Limits (Apr-May): 15 mg/L CBOD <sub>5</sub> , 30 mg/L TSS, 7 mg/L NH <sub>3</sub> -N, 6 mg/L DO (min.), or No Discharge Winter Limits (Nov-Mar): Lagoon Secondary (25 mg/L CBOD <sub>5</sub> , 90 mg/L TSS) & 3 mg/L DO		
Recommended Treatment Alternatives			
A)	Total Retention		
B)	Selective Discharge		
C)	Tertiary Level of Treatment		
		EPA Approval Date:	01/30/2004
		Record Last Updated:	03/12/2021
*: Update for design flow			



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 new or changes in 208 Plans for facilities, DEQ's Modeling, TMDL, 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](mailto: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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