

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

PUBLIC NOTICE

September 15, 2017

REQUEST FOR PUBLIC COMMENT ON A PROPOSED MODIFICATION TO OKLAHOMA'S WATER QUALITY MANAGEMENT PLAN FOR OG&E REDBUD POWER PLANT

Public Comment Period Begins: September 15, 2017

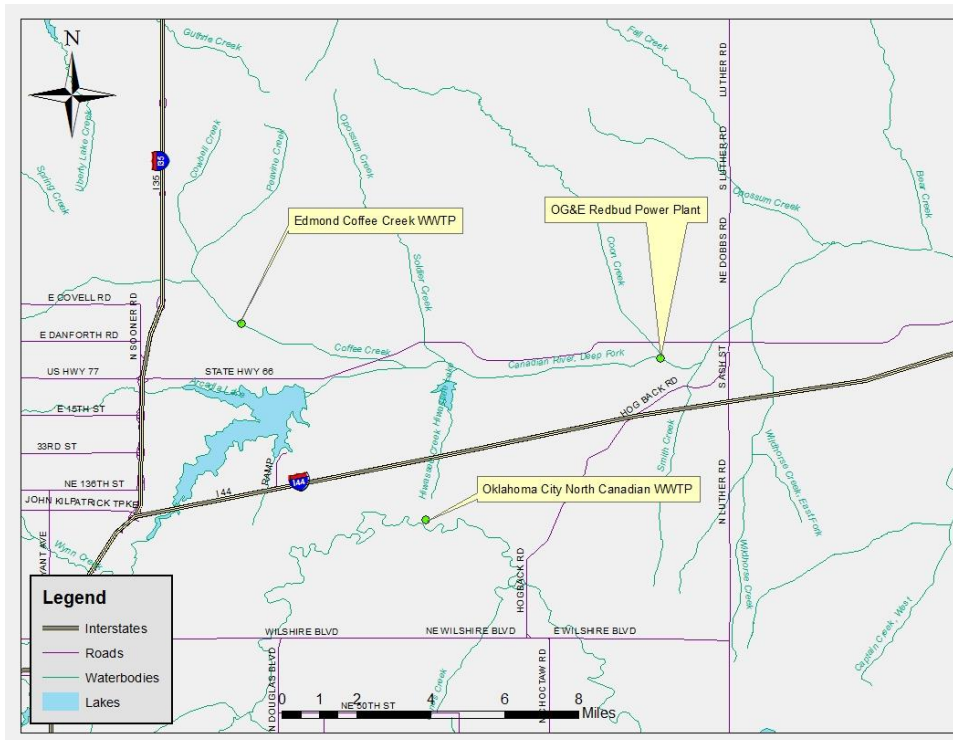
Public Comment Period Ends: October 30, 2017

Permitee:

OG&E, P.O. Box 321 N. Harvey, Oklahoma City, Oklahoma 73101-0321. [Facility Legal Description: SE¼, SE¼, NW¼, S29, T14N, R1E, I.M.]

Receiving waters and location:

[Canadian River, Deep Fork](#) (OK520710010010_00) (Latitude: 35° 39' 37" North; Longitude: 97° 13' 16" West).



Currently, The OG&E Redbud Power Plant discharges cooling tower blowdown wastewater to the City of Oklahoma City WWT system. However, discharging to the City has become a financial burden to maintain. Therefore, OG&E has formally requested to discharge a design flow of 2.278 MGD to the Canadian River, Deep Fork (OK520710010010_00).

Discharges of cooling water from an electric generating facility are not generally considered to have a significant oxygen demand, but effluent from the Redbud facility is expected to exert an

oxygen demand in the river because the source water for the facility is treated wastewater from the Oklahoma City North Canadian Wastewater Treatment Plant (WWTP). The primary concern of DEQ is a potential lowering of dissolved oxygen (DO) in the river as a result of the discharge.

The Canadian River, Deep Fork (OK520710010010_00) is listed in the Oklahoma Water Quality Standards as having the following beneficial uses:

- Fish and Wildlife Propagation - Warm Water Aquatic Community (WWAC)
- Primary Body Contact Recreation (PBCR)
- Public and Private Water Supply (PPWS)
- Aesthetics
- Fish Consumption
- Agriculture

The Canadian River, Deep Fork is also listed on Oklahoma's 303(d) list for bacteria (enterococci and E. coli) and bio-assessment (fish and macroinvertebrate). This WLA has been developed in order to ensure that the WLA limits assigned to the discharge are stringent enough to maintain DO standards under critical conditions.

The following changes to the Oklahoma Water Quality Management Plan (208 Plan) are recommended.

OG&E Redbud Power Plant

Average Daily Design Effluent Flow (Q): 2.278 MGD

Year Round: 9.0 mg/L CBOD₅, 0.75 mg/L NH₃-N, 2.4 mg/L TKN; and 44.1 mg/l TOC

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 October 30, 2017** to:

Soojung Lim
Water Quality Division; Oklahoma DEQ
P.O. Box 1677; Oklahoma City, OK 73101-1677
(405) 702-8197
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, 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.

208 INDUSTRIAL FACT SHEET			
FACILITY:	OG&E REDBUD POWER PLANT	CITY/TOWN:	LUTHER
FACILITY LEGAL LOCATION:	SE¼, SE¼, NW¼, S29, T14N, R1E, I.M.	COUNTY:	MUSKOGEE
NPDES #	OK0100552	SIC CODE:	4911
STATE FACILITY NUMBER:	I-55006590		
OPERATIONS DESCRIPTION:	Electric Services		
OUTFALL NUMBER:	001		
WASTE WATER DESCRIPTION:	Cooling tower blow-down from four cooling towers, as well as plant low volume waste that is discharged from the existing Low Volume Waste Sump. The low volume waste water sources include softener regeneration wastewater, filter backwash water, and additional low volume wastewater sources from the Chemical Waste Sump including Reverse Osmosis (RO) and Electrodeionization (EDI) reject water, and water from the floor and area drains of the chemical and water treatment areas.		
TREATMENT PROCESS:	Impoundment Lagoon		
EVALUATION TYPE:	Wasteload allocation study		
RECEIVING STREAM:	Canadian River, Deep Fork (OK520710010010_00)	SEGMENT:	520710
STREAM CLASS:	Perennial		

CRITICAL EFFLUENT FLOW (MGD): (Highest 30 day average flow, enter the value or NA)	2.278	POINT OF DISCHARGE:	SE¼, SE¼, NW¼, S29, T14N, R1E, I.M.
LONG TERM AVERAGE (LTA) FLOW (MGD):	1.387	LATITUDE:	35° 39' 37" N
7 DAY 2 YEAR LOW FLOW (MGD):	10.7 (1989 to 2007) averaged Summer: 33.5 Spring: 10.7 Winter: 23.6	LONGITUDE:	97° 13' 16" W
WASTELOAD ALLOCATION: For Dissolved Oxygen demanding substances (Final Discharge only, no internal monitoring points)	<u>Year Round</u> Flow (Q _{e30}): 2.278 MGD CBOD ₅ : 9 mg/L (average) NH ₃ -N: : 0.75 mg/L (average) TKN: 2.4 mg/L (average) TOC: 44.1 mg/L (average)		
EPA APPROVAL DATE: Pending RECORD LAST UPDATED: 8/1/2017			



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 Soojung.Lim@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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