

PUBLIC NOTICE

September 30, 2022

REQUEST FOR PUBLIC COMMENT ON A PROPOSED MODIFICATION TO OKLAHOMA'S WATER QUALITY MANAGEMENT PLAN FOR PHILLIPS 66 COMPANY (PONCA CITY REFINERY)

Public Comment Period Begins: September 30, 2022

Public Comment Period Ends: November 14, 2022

Permittee: Phillips 66 Company – Ponca City Refinery (PCR), P.O. Box 1267, Ponca City, OK 74601. [Facility Legal Description: Sections 33 and 34, Township 26 North, and Sections 3 and 4, Township 25 North, Range 2 East, I.M.]

Receiving waters and location: Arkansas River (OK621200020010_40) (Latitude: 36° 40' 13" North; Longitude: 97° 03' 57" West).



PCR updated the high 30-day average flow ($Q_{e(30)}$) to 4.8 MGD from 3.1 MGD based on current data and requested a 208 Plan modification to accommodate this change. The Arkansas River (OK621200020010_40), the PCR's receiving stream, 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, Primary Body Contact Recreation (PBCR), and Public and Private Water Supply (PPWS). No impairments were reported in the Arkansas River (OK621200020010_40).

A QUAL2K model was used to develop PCR's waste load allocation (WLA). A 25% margin of safety (MOS) was applied in the model for multiple point sources. PCR and Ponca City's publicly owned treatment works (POTW), 1.1 km (0.68 miles) and 0.47 km (0.29 miles) downstream of State Highway 60,

respectively, were entered into the model for the point sources. The final recommended changes to the Oklahoma Water Quality Management Plan (208 Plan) are provided in the following table.

Phillips 66 Ponca City Refinery

	Current Limits	Proposed Limits
Q _{e(30)}	3.1 MGD	4.8 MGD
WLA	Year-round: Ammonia: 323 lbs/d (13.2 mg/L) BOD ₅ : 646 lbs/d (26.3 mg/L)	Year-round: Ammonia: 529 lbs/d (13.2 mg/L) BOD ₅ : 1,054 lbs/d (26.3 mg/L)

The concentration limits were not changed, but the load limits were increased by approximately 63% due to the flow increase. 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 **November 14, 2022**, to:

Soojung Lim
 Water Quality Division
 Oklahoma Department of Environmental Quality
 P.O. Box 1677
 Oklahoma City, OK 73101-1677
 (405) 702-8195
 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:	PHILLIPS 66 CO.	CITY/TOWN:	PONCA CITY
FACILITY LEGAL LOCATION:	S 33 and 34, T26N, and S 3 and 4, T25N, R2, I.M.	COUNTY:	KAY
NPDES #:	OK0000256	SIC CODE:	2711
STATE FACILITY NUMBER:	I-36000400	OPERATIONS DESCRIPTION:	Petroleum refinery
OUTFALL NUMBER:	001		
WASTE WATER DESCRIPTION:	The discharge consists of treated effluent from the refinery's wastewater treatment system, which receives contact and non-contact cooling water, cooling tower blowdown, boiler blowdown, water softener discharge, hydrostatic test discharge, wastewater from laboratory drains and research pilot plants. This includes the Gas-to-Liquids semi-works plant, process wastewater from the desalter, sour water stripper and other refinery process units. Also included is a low sulfur gasoline plant and low sulfur diesel and coker gas plants in the planning stages, treated and		

untreated groundwater from on-site and adjacent groundwater remediation project wells and natural springs. In addition, it includes filtrate from mechanical sludge dewatering equipment, off-site wastewaters from the petroleum storage and transfer (PST) facilities, sanitary wastewater from the South Plant control room septic tank system, oil recovery process water, stormwater runoff from process and non-process areas and from the land treatment unit. Lastly, it includes stormwater from construction activities, and wastewater from other miscellaneous activities associated with refining processes, including but not limited to steam generation, maintenance, turnaround, and remediation activities.					
TREATMENT PROCESS:		Biological (activated sludge) wastewater treatment, solids settling, pH adjustment, polishing and flocculation			
EVALUATION TYPE:		Wasteload allocation study			
CRITICAL EFFLUENT FLOW(MGD): (Highest 30-day average flow, enter the value or NA)		3.1 4.8		PROJECTED MAXIMUM FLOW (MGD): n/a	
POINT OF DISCHARGE:	NW¼/SW¼/SW¼, S2, T25N, R2E, I.M.	LATITUDE:	36° 40' 13" N	LONGITUDE:	97° 03' 57" W
RECEIVING STREAM:	Arkansas River		SEGMENT:	621200	
7-day 2-year low flow in MGD (7Q2):	108.5		STREAM CLASS:	Perennial	
WASTELOAD ALLOCATION: For Dissolved Oxygen Demanding Substances (Final Discharge only, no internal monitoring points)	Year-round: Ammonia: 323 529 lb/day (13.2 mg/L) BOD ₅ : 646 1,054 lb/day (26.3 mg/L)				
				EPA APPROVAL DATE:	
				RECORD LAST UPDATED:	9/1/2022

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. 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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