

OKLAHOMA DEPT OF ENVIRONMENTAL QUALITY - WATER QUALITY DIVISION

Narrative and numerical criteria are established in the Oklahoma Water Quality Standards (OWQS), OAC 785:45. The OWQS are implemented using procedures established in OAC 785:46, OAC 252:690, and Oklahoma's Continuing Planning Process (CPP) Document. **The question under "Outfall Data" regarding proximity of the outfall to a public water supply (PWS) intake must be answered prior to proceeding to other worksheets.** If you wish to "force" calculation of limits, enter background levels and coeff of variation (CV) for a pollutant's data distribution, if known, on EBDATA tab to ensure limits reflect such data.

OWQScreen-S

Version
3.35

Facility & Receiving Water Data Input

Analyst/Date:

Facility Data (Pmt Application)	
Facility Name	GLENPOOL PIPELINE BREAKOUTSTATION
OPDES Permit No.	OK0044873 EPA-ISSUED
Facility ID No.	NA
Type Facility (Municipal or Industrial)	INDUS
Major or minor?	MINOR
Are tech-based or DO-based NH ₃ limits reqd in this permit?	NO

Outfall Data (Pmt Application)			
Type Dischg		Outfall No.	
Effluent Flow (MGD)	Municipal Only	Design flow [Q _{e(D)}]	
	Industrial Only	30-day max [Q _{e(30)}]	0.0297
		Long term avg [Q _{e(LTA)}]	0.0090
Outfall within 5 miles upstream of PWS intake?			NO
Do you wish to "force" calculation of limits, regardless of RP?			NO

Receiving Water Beneficial Uses (Re: OAC 784:45, Appendix A)	
(default uses assumed for unlisted receiving waters are shown in highlighted bold face)	
Public and Private Water Supply (OAC 785:45-5-10)	YES
Emerg Public and Private Water Supply (OAC 785:45-5-11)	
Fish and Wildlife Propagation (OAC 785:45-5-12)	WWAC
Habitat Limited Aquatic Community (HLAC)	
Warm Water Aquatic Community (WWAC)	
Cool Water Aquatic Community (CWAC)	
Trout Fishery (TROUT)	
Agriculture: Livestock and Irrigation (OAC 785:45-5-13)	YES
Primary Body Contact Recreation (OAC 785:45-5-16)	YES
Secondary Body Contact Recreation (OAC 785:45-5-17)	
Navigation (OAC 785:45-5-18)	
Aesthetics (OAC 785:45-5-19)	YES
Fish Consumption (OAC 785:45-5-20) - programmatically coded	YES
Designated scenic river?	NO
Other Designations (ORW, HQW, SWS, CSW, NLW)	

Receiving Stream Data						
Receiving Stream	COAL CREEK		USGS monitoring stn no, if used		Type of Data	
Downstrm Water Body	POLECREEK		Chlorides (mg/l)	YMS	719	
WQM Basin Name	Middle Arkansas River			SS	925	Segment avgd
WQM Basin No.	120420			Backgrd (Eqn 1)	513	
12-digit Waterbody ID (WBID)	OK	120420020030	Sulfates (mg/l)	YMS	147	
Hardness (mg/l CaCO ₃)	267.83	Type data		OAC 785:46 App B	SS	178
pH (std units)	7.77	Type data		OAC 785:46 App B	Backgrd (Eqn 1)	116
Stream Flows (MGD)	Low Flow, Q _{u(7Q2)} *	1.0000	OAC 785:46-5-2	Total Dissolved Solids (mg/l)	YMS	1496
	Long Term Avg, Q _{u(LTA)}	0.0090	OAC 785:46-7-2		SS	1868
	Short Term Avg, Q _{u(STA)}	0.6463	OAC 785:46-9-3(e)		Backgrd (Eqn 1)	1124
	Long Term Avg, Q _{u(LTA)} for AG **	0.9501	OAC 785:45-5-13(e)			

* Q_{u(7Q2)} must be set equal to 0.6463 MGD (1 cfs) if 7Q2 is unknown and permittee chooses not to develop 7Q2, or if streamflow is intermittent.

** Q_{u(LTA)} for AG is set equal to the greater of Q_{u(LTA)} or 0.9501 MGD (1.47 cfs) per OAC 785:45-5-13(e).

Equations		Calculation of Q* Flow Ratios			
Eqn 1	Mean = 2 x YMS - SS	Applicable Screens		Industrial	Municipal
		Q*	Temp, Chronic Tox, Aesthetics	Q _{e(30)} / Q _{u(7Q2)} =	Q _e / Q _{u(7Q2)} =
		Q**	Human Health	Q _{e(lta)} / Q _{u(lta)} =	Q _e / Q _{u(lta)} =
		Q***	Raw Water	Q _{e(30)} / Q _{u(lta)} =	Q _e / Q _{u(lta)} =
		Q****	Ag SS	Q _{e(30)} / Q _{u(sta)} =	Q _e / Q _{u(sta)} =
		Q*****	Ag YMS	Q _{e(lta)} / Q _{u(lta,ag)} =	Q _e / Q _{u(lta,ag)} =

DISCLAIMER: This workbook is intended for use as a general purpose tool for reasonable potential screening and determination of permit limits and other monitoring requirements. While it incorporates the general water quality screening protocols detailed in the OWQS implementation rules and CPP, it may not be appropriate or applicable to every discharge situation. Due to site specific factors that cannot be reflected in a workbook of this type and/or use of alternative implementation methodologies, limits and monitoring requirements contained in a final permit may be different than those calculated herein.