

Oregon Department of Environmental Quality Appendix A: Additional Excess Thermal Load Limitations

During the term of this permit, a registrant must comply with the applicable temperature excess thermal load limit in the tables below corresponding to the facility's discharge location.

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1) Closed Lake Basin

Alvord Lake Subbasin				
Timeframe when June – October				
Q _{ed} * (0.14*S ₂₅ - T _{SP}) * 3.78541				
Effluent Limit Needed to Address Excess Thermal Load	Where: S_{25} is the critical dilution provided by DEQ at the time of permit assignment Q_{ed} is the maximum design effluent flow from facility for all outfalls (MGD) T_{SP} is the applicable system potential temperature (from the TMDL)			

2) Grande Ronde Basin

Upper Grande Ronde Subbasin			
Timeframe when limit applies	June – October		
	Q _{ed} * (0.14*S ₂₅ - T _{SP}) * 3.78541		
Effluent Limit Needed to Address Excess Thermal Load	Where: S_{25} is the critical dilution provided by DEQ at the time of permit assignment Q_{ed} is the maximum design effluent flow from facility for all outfalls (MGD) T_{SP} is the applicable system potential temperature (from the TMDL)		

3) Klamath Basin

Upper Klamath and Lake Drainage			
Timeframe when limit appliesJune – October			
Q _{ed} * (0.14*S ₂₅ - T _{SP}) * 3.78541			
Effluent Limit Needed to Address Excess Thermal Load	Where: S_{25} is the critical dilution provided by DEQ at the time of permit assignment Q_{ed} is the maximum design effluent flow from facility for all outfalls (MGD) T_{SP} is the applicable system potential temperature (from the TMDL)		

4) Rogue Basin

Applegate Subbas	plegate Subbasin			
Timeframe when limit applies	Year-round			
Effluent Limit Needed to Address Excess Thermal Load	$Q_{ed} * (0.14*S_{25} - T_{SP}) * 3.78541$ Where: S_{25} is the critical dilution provided by DEQ at the time of permit assignment Q_{ed} is the maximum design effluent flow from facility for all outfalls (MGD) T_{SP} is the applicable system potential temperature (from the TMDL)			

Lower Sucker Creek Watershed				
Timeframe when limit applies June – September				
	Q _{ed} * (0.14*S ₂₅ - T _{SP}) * 3.78541			
Effluent Limit	Where:			
Needed toS25 is the critical dilution provided by DEQ at the time of permitAddress Excessassignment				
Thermal Load	Q_{ed} is the maximum design effluent flow from facility for all outfalls (MGD) T_{SP} is the applicable system potential temperature (from the TMDL)			

Upper Sucker Creek Watershed					
Timeframe when limit applies	Llune – Sentember				
Effluent Limit Needed to Address Excess Thermal Load	$Q_{ed} * (0.14*S_{25} - T_{SP}) * 3.78541$ Where: S_{25} is the critical dilution provided by DEQ at the time of permit assignment Q_{ed} is the maximum design effluent flow from facility for all outfalls (MGD) T_{SP} is the applicable system potential temperature (from the TMDL)				

Lobster Creek Watershed					
Timeframe when limit applies Year-round					
Effluent Limit Needed to Address Excess Thermal Load	$Q_{ed} * (0.14*S_{25} - T_{SP}) * 3.78541$ Where: S_{25} is the critical dilution provided by DEQ at the time of permit assignment Q_{ed} is the maximum design effluent flow from facility for all outfalls (MGD) T_{SP} is the applicable system potential temperature (from the TMDL)				

5) Snake River/Hells Canyon Subbasin

Snake River/Hells Canyon Subbasin					
Timeframe when limit applies	May – Sentember				
Q _{ed} * (0.14*S ₂₅ - T _{SP}) * 3.78541					
Effluent Limit Needed to Address Excess Thermal Load	Where: S_{25} is the critical dilution provided by DEQ at the time of permit assignment Q_{ed} is the maximum design effluent flow from facility for all outfalls (MGD) T_{SP} is the applicable system potential temperature (from the TMDL)				

6) Willamette Basin

Timeframe when limit applies	Year-roun	Year-round			
File No.	Permit No.	Common Name	Specific Excess Thermal Load (Million Kcal/day) ¹		
52638	10451	Herbert Malarkey Roofing Company	5.77		
103832	12073	Ventura Foods, LLC	4.03		
65610	10618	Owens-Illinois Glass Container Inc. (Owens Brockway)	3.90		
103774	12024	Miller Paint Co Inc	1.30		

Tualatin Subbasin				
Timeframe when limit applies	June – October			
File No.	Permit No.	Common Name	System Potential Temperature (°F)	Specific Excess Thermal Load (Million Kcal/day)
103777	12029	Pacific Foods	62	1.1
103448	11779	Epson Portland Inc	61.1	0.082
87628	10833	Tektronix	61.1	0.15
108322	14334	Maxim Wafer Fab Operations	61.1	0.13
107618	13556	Henningsen	57.8	0.013
Effluent Limit Needed to Address Excess Thermal Load for New Discharges	$Q_{ed} * (0.14*S_{25} - T_{SP}) * 3.78541$ Where: S_{25} is the critical dilution provided by DEQ at the time of permit assignment Q_{ed} is the maximum design effluent flow from facility for all outfalls (MGD) T_{SP} is the applicable system potential temperature (from the TMDL)			

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