Appendix D -- Applicable DEQ State Standards and Benchmarks, March 18, 2009

Benchmarks	Coast Range N=82		Willamette Valley + Puget Lowlands (pre 2009) N=8 WV + 2 PLL		Willamette Valley (2009) N=24		Cascades N=110		Basis
	Good	Poor	Good	Poor	Good	Poor	Good	Poor	
Conductivity (Microsiemens/cm)	< 94	> 160	< 102	> 235	<93	>137	< 58	> 102	75th and 95th reference percentile
Turbidity (nephalometric turbidity units)	< 1	> 6	< 5	> 30	<6	>22	< 1	> 2	75th and 95th reference percentile
Total Suspended Solids	< 2	> 9	< 4	> 26	<6	>21	< 1	> 66	75th and 95th reference percentile
Total Phosphorus	< 0.020	> 0.040	< 0.040	> 0.110	<0.053	>0.129	< 0.030	> 0.066	75th and 95th reference percentile
Total Nitrogen (mg/L)	< 0.570	> 0.855	< 0.429	> 0.646	<0.344	>0.505	< 0.260	> 0.318	75th and 95th reference percentile
State Standards									
Temperature (°C)	Temperature standard is based on fish life history needs. Streams do not the meet state standard if the average daily maximum temperature over a 7-day period exceeds 12° °C for bull trout spawning and juvenile rearing habitat; 13° °C for salmon & steelhead spawning habitat; 16° °C for core cold water habitat for salmon & steelhead; 18° °C for salmon and trout rearing and migration habitat; or 20° °C for migration corridor habitat. See Oregon Administrative Rules: OAR 340-041-0025.								numeric standards
Dissolved Oxygen (mg/L)	Dissolved oxygen standard is based on fish life history needs. D.O. below 8.0mg/L or 90% of saturation in most waters, or 11.0 mg/L or 95% of saturation in bull trout spawning habitat (upper McKenzie and upper Middle Fork Willamette) does not meet the state standard. See Oregon Administrative Rules: OAR 340-041-0016.								numeric standards
E. coli	*E. coli* is based on human health criteria. A single sample exceeding 406 cells/mL does not meet the state standard.								numeric standards