

**CONDITIONAL WAIVER OF WASTE DISCHARGE REQUIREMENTS
FOR DISCHARGES FROM IRRIGATED AGRICULTURAL LANDS
ORDER NO. R4-2016- 0143**

**APPENDIX 4
STANDARD WATER QUALITY BENCHMARKS**

Constituent	Units	Water Quality Benchmark
Temperature	^o F	(a) ¹
pH	pH units	(a) ¹
Dissolved Oxygen (DO)	mg/L	(a) ¹
Turbidity	NTU	(a) ¹
Trash	Observations ²	(a) ¹
Total Suspended Solids	mg/L	(a) ¹
Total Dissolved Solids	mg/L	(a) ¹
Chloride	mg/L	(a) ¹
Nitrate-Nitrogen	mg/L	(a) ¹
Ammonia-Nitrogen	mg/L	(a) ¹
Sulfate	mg/L	(a) ¹
Copper ³	µg/L	CCC = 0.960e ^{[[0.8545(ln(hardness) + (-1.702))]}
Chlordane ³	µg/L	0.00059
4,4'-DDT ³	µg/L	0.00059
4,4'-DDD ³	µg/L	0.00084
DDE ³	µg/L	0.00059
Dieldrin ³	µg/L	0.00014
Toxaphene ³	µg/L	0.00075
Chlorpyrifos ⁴	µg/L	0.025
Diazinon ⁴	µg/L	0.10
Bifenthrin ⁵	µg/L	0.0006
Toxicity ⁶	TU _c	1.0
<i>E. coli</i>	MPN/100mL	235/100 ml (single sample limits)

¹Water Quality Benchmarks shall be based on the surface water objectives currently contained in the Water Quality Control Plan Los Angeles Region (Basin Plan) or other applicable water quality standards established for the Los Angeles Region.

² Methods used in previously approved MRPs under Order No. R4-2010-0186 or adopted Trash TMDLs may be used. The assessment methodology should produce consistent results across watersheds and across counties.

³ The Water Quality Benchmarks are based on the CTR criteria.

⁴ The Water Quality Benchmarks are based on numeric targets in the Calleguas Creek Watershed and Mugu Lagoon Toxicity, Chlorpyrifos, and Diazinon TMDL (Resolution No. R05-009).

⁵ The Water Quality Benchmark is based on the numeric target in the Oxnard Drain No. 3 Pesticides, PCBs and Sediment Toxicity TMDL.

⁶ TU_c or Toxic Unit-Chronic is the reciprocal of the effluent concentration that causes no observable effects (i.e., no mortality) on the test organisms by the end of a chronic toxicity test.