

REVISED DRAFT

Attachment A

Trigger Limits Used for Zone Data Review*
(Revised draft 16 July 2007)

*Trigger Limits are being used under the ILP as screening values to trigger various actions and to evaluate the need for management of potential water quality problems.

ZONE 1

Parameter	Water Quality Trigger	Standard Type	Reference (beneficial use) ¹
General			
pH	6.5 - 8.5 units 7.5-9.5 (Goose Lake)	Numeric	Basin Plan Objective (multiple)
Electrical Conductivity	700 umhos/cm	Numeric or Narrative	1995 Bay Delta Plan & <i>Water Quality for Agriculture</i> , Ayers and Westcot, 1985 (Agriculture)
Dissolved Oxygen (minimum)	7.0 mg/L	Numeric	Basin Plan Objective, page III-5.00 and Table II-2 (aquatic life)
Dissolved Oxygen (minimum)	5.0 mg/L	Numeric	Basin Plan Objective, page III-5.00: for waters designated WARM (aquatic life)
Dissolved Oxygen (minimum)	9.0 mg/L	Numeric	Basin Plan, page III-5.00, Sacramento River from Keswick Dam to Hamilton City, 1 June to 31 August (aquatic life)
Turbidity	variable	Numeric	Basin Plan Objective –(varies based on natural turbidity) (multiple)
Total Dissolved Solids	450 mg/L	Narrative	<i>Water Quality for Agriculture</i> , Ayers and Westcot, 1985 (Agriculture)
E. coli	235 MPN/100 ml	Narrative	USEPA Ambient Water Quality Criteria for Bacteria – 1986 (contact recreation)
Pesticides – Carbamates			
Aldicarb	3.0 ug/L	Narrative	Basin Plan Chemical Constituents Objective, USEPA Primary MCL (MUN, human health)
Carbaryl	2.53 ug/L	Narrative	Basin Plan Toxicity Objective: Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (California Department of Fish and Game)(aquatic life)
Carbofuran	0.40 or ND	Numeric: Performance Goal or Pesticide Prohibition	Basin Plan Performance Goal if under Management Plan; Basin Plan Prohibition, page IV-25.00 (MUN, human health)
Methomyl	0.52 ug/L	Narrative	Basin Plan Toxicity Objective, Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (California Department of Fish and Game) (aquatic life)
Pesticides – Organochlorines			
DDD(p,p')	0.00083 ug/L	Numeric	California Toxics Rule (CTR) (human health)
DDE(p,p')	0.00059 ug/L	Numeric	CTR (human health)
DDT(p,p')	0.00059 ug/L	Numeric	CTR (human health)
Dieldrin	0.00014 ug/L	Numeric	CTR (human health)
Pesticides – Organophosphates			
Chlorpyrifos	0.015 ug/L	Numeric	Basin Plan, page III-6.01; San Joaquin River & Delta, pending Sacramento & Feather Rivers (aquatic life)
Diazinon	0.1 ug/L	Numeric	Basin Plan, page III-6.01; San Joaquin River & Delta, pending Sacramento and Feather Rivers (aquatic life)
Dichlorvos	0.085 ug/L	Narrative	Basin Plan Toxicity Objective, Cal/EPA Cancer Potency Factor (MUN, human health)
Dimethoate	1.0 ug/L	Narrative	Basin Plan Toxicity Objective, Notification Level – DHS (MUN, human health)
Disulfoton	0.05 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA National Ambient Water Quality Criteria - Freshwater Aquatic Life Protection - instantaneous

¹ The table includes, in parentheses, the beneficial use intended to be addressed by the standard or most affected by the particular parameter.

Parameter	Water Quality Trigger	Standard Type	Reference (beneficial use) ¹
			maximum (aquatic life)
Malathion	0.1 or ND	Numeric: Performance Goal or Pesticide Prohibition	Basin Plan Performance Goal if under a Management Plan; Basin Plan, page IV-25.00 (human health, aquatic life)
Methidathion	0.7 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA IRIS Reference Dose (MUN, human health)
Parathion, Methyl	0.13 or ND	Numeric: Performance Goal or Pesticide Prohibition	Basin Plan Performance Goal if under a Management Plan; Basin Plan Prohibition, page IV-25.00 (aquatic life, human health)
Pesticides – Pyrethroids			
Cypermethrin, total	0.002 ug/L	Narrative	Basin Plan Toxicity Objective, Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (California Department of Fish and Game)(aquatic life)
Cyhalothrin, lambda, total	35 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA IRIS Reference Dose (MUN, human health)
Pesticides – Herbicides			
Atrazine	0.15ug/L	Narrative	Basin Plan Toxicity Objective, California Public Health Goal (MUN)
Diuron	2 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA Health Advisory – Cancer Risk (MUN, human health)
Glyphosate	700 ug/L	Numeric	Basin Plan Chemical Constituents Objective, page III-3.00, California Primary MCL (MUN, human health)
Molinate	10 ug/L	Numeric: Performance Goal	Basin Plan Performance Goal if under a Management Plan; Basin Plan Prohibition, page IV 25.00 (MUN, human health, aquatic life)
Simazine	4.0 ug/L	Numeric	Basin Plan Chemical Constituents Objective, page III-3.00 California Primary MCL (MUN, human health)
Thiobencarb	1.0 ug/L	Numeric: Secondary MCL	Basin Plan Pesticides Objective if under a Management Plan; Basin Plan Prohibition, page IV-25.00 (MUN, human health)
Metals			
Aluminum	87 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA National Ambient Water Quality Criteria, Freshwater Aquatic Life Protection, 4-Day Average (aquatic life)
Antimony	6 ug/L	Numeric	Basin Plan Chemical Constituents Objective, page III-3.00, California Primary MCL (MUN, human health)
Arsenic	10 ug/L	Narrative	Basin Plan Chemical Constituents Objective, USEPA Primary MCL (MUN, human health)
Boron	700 ug/L	Narrative	Basin Plan Chemical Constituents Objective, <i>Water Quality for Agriculture</i> , Ayers and Westcot, 1985 (agriculture)
Cadmium	0.07 ug/L	Narrative or Numeric	Basin Plan California Public Health Goal (MUN, human health)
Chromium	50 ug/L	Numeric	Basin Plan Chemical Constituents Objective, page III-3.00, California Primary MCL (MUN, human health)
Copper	Variable. Depends on hardness	Numeric	CTR Freshwater Aquatic Life Protection, 4-day Average (aquatic life)

Parameter	Water Quality Trigger	Standard Type	Reference (beneficial use) ¹
Lead	2 ug/L or Variable. Depends on hardness	Narrative or Numeric	Basin Plan narrative toxicity Objective, California Public Health Goal; CTR Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average - varies with water hardness (MUN, aquatic life)
Mercury	0.05 ug/L	Numeric	CTR Criteria, Human Health Protection – Sources of Drinking Water 30-day Average (MUN, human health)
Nickel	12 ug/L or Variable. Depends on hardness	Narrative or Numeric	Basin Plan Toxicity Objective, California Public Health Goal; CTR Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average - varies with water hardness (MUN, aquatic life)
Selenium	5.0 ug/L	Numeric	CTR, Freshwater Aquatic Life Protection, 4-Day Average (aquatic life)
Zinc	Variable. Depends on hardness	Numeric	Basin Plan Objectives, page III-4.00; CTR Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (MUN, aquatic life, agriculture, human health)

ZONE 2

Parameter	Water Quality Trigger	Standard Type	Reference (beneficial use)
General			
pH	6.5 - 8.5 units	Numeric	Basin Plan (multiple)
Electrical Conductivity	700 umhos/cm	Numeric or Narrative	1995 Bay Delta Plan & <i>Water Quality for Agriculture</i> , Ayers and Westcot, 1985 (agriculture)
Dissolved Oxygen (minimum)	7.0 mg/L	Numeric	Basin Plan, page III-5.00 and Table II-2 (aquatic life)
Turbidity	variable increase	Narrative	Basin Plans – (varies based on natural turbidity) (multiple)
Total Dissolved Solids	450 mg/L	Narrative	<i>Water Quality for Agriculture</i> , Ayers and Westcot, 1985 (agriculture)
Pesticides – Carbamates			
Carbaryl	2.53 ug/L	Narrative	Basin Plan Toxicity Objective: Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (California Department of Fish and Game) (aquatic life)
Carbofuran	0.40 or ND	Numeric: Performance Goal or Pesticide Prohibition	Basin Plan Performance Goal if under Management Plan; Basin Plan Prohibition, page IV-25.00 (MUN, human health)
Methomyl	0.52 ug/L	Narrative	Basin Plan Toxicity Objective, Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (California Department of Fish and Game) (aquatic life)
Pesticides – Organochlorines			
DDD(p,p')	0.00083 ug/L	Numeric	California Toxics Rule (CTR) (human health)
DDE(p,p')	0.00059 ug/L	Numeric:	CTR (human health)
DDT(p,p')	0.00059 ug/L	Numeric	CTR (human health)
Dieldrin	0.00014 ug/L	Numeric	CTR (human health)
Endrin	0.01 ug/L	Numeric	Basin Plan Pesticides Objective prohibition of detectable persistent chlorinated hydrocarbon pesticides, SIP Minimum Level (MUN, aquatic

Parameter	Water Quality Trigger	Standard Type	Reference (beneficial use)
			life)
Methoxychlor	0.03 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA National Ambient Water Quality Criteria - Freshwater Aquatic Life Protection - instantaneous maximum (aquatic life)
Pesticides – Organophosphates			
Azinphos methyl	0.01 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA National Ambient Water Quality Criteria - Freshwater Aquatic Life Protection (aquatic life)
Chlorpyrifos	0.015 ug/L	Numeric	Basin Plan, page III-6.01; San Joaquin River & Delta, pending Sacramento & Feather Rivers (aquatic life)
Diazinon	0.1 ug/L	Numeric	Basin Plan, page III-6.01; San Joaquin River & Delta, pending Sacramento and Feather Rivers (aquatic life)
Dimethoate	1.0 ug/L	Narrative	Basin Plan Toxicity Objective, Notification Level – DHS (MUN, human health)
Disulfoton	0.05 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA National Ambient Water Quality Criteria - Freshwater Aquatic Life Protection - instantaneous maximum (aquatic life)
Malathion	0.1 or ND	Numeric: Performance Goal or Pesticide Prohibition	Basin Plan Performance Goal if under a Management Plan; Basin Plan, page IV-25.00 (human health, aquatic life)
Methidathion	0.7 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA IRIS Reference Dose (MUN, human health)
Parathion, Methyl	0.13 or ND	Numeric: Performance Goal or Pesticide Prohibition	Basin Plan Performance Goal if under a Management Plan; Basin Plan Prohibition, page IV-25.00 (aquatic life, human health)
Pesticides – Herbicides			
Atrazine	0.15 ug/L	Narrative	Basin Plan Toxicity Objective, California Public Health Goal (MUN,)
Cyanazine	1.0 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA Health Advisory (human health)
Diuron	2 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA Health Advisory – Cancer Risk (MUN, human health)
Glyphosate	700 ug/L	Numeric	Basin Plan Chemical Constituents Objective, page III-3.00, California Primary MCL (MUN, human health)
Linuron	1.4 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA IRIS Reference Dose as a drinking water level* (human health)
Oryzalin	35 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA IRIS Reference Dose as a drinking water level (human health)
Simazine	4.0 ug/L	Numeric	Basin Plan Chemical Constituents Objective, page III-3.00, California Primary MCL (MUN, human health)
Thiobencarb	1.0 ug/L	Numeric	Basin Plan Pesticides Objective if under a Management Plan; Basin Plan prohibition, page IV-25.00 (MUN, human health)
Metals			
Arsenic	10 ug/L	Narrative	Basin Plan Chemical Constituents Objective, USEPA Primary MCL (MUN, human health)
Boron	700 ug/L	Narrative	Basin Plan Chemical Constituents Objective, <i>Water Quality for Agriculture</i> , Ayers and Westcot, 1985 (Agriculture)

Parameter	Water Quality Trigger	Standard Type	Reference (beneficial use)
Copper	Variable. Depends on hardness	Numeric	CTR Freshwater Aquatic Life Protection, 4-day Average (aquatic life)
Lead	2 ug/L or Variable. Depends on hardness	Narrative or Numeric	Basin Plan narrative toxicity Objective, California Public Health Goal; CTR Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average - varies with water hardness (MUN, aquatic life)
Nickel	12 or Variable. Depends on hardness	Narrative or Numeric	Basin Plan Toxicity Objective, California Public Health Goal; CTR Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average - varies with water hardness (MUN, aquatic life)
Zinc	Variable. Depends on hardness	Numeric	Basin Plan Objectives, page III-4.00; CTR Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (MUN, aquatic life, agriculture, human health)

ZONE 3

Parameter	Water Quality Trigger	Standard Type	Reference (beneficial use)
General			
pH	6.5 - 8.5 units	Numeric Objective	Basin Plan (multiple)
Electrical Conductivity	700 umhos/cm	Numeric or Narrative	1995 Bay Delta Plan & <i>Water Quality for Agriculture</i> , Ayers and Westcot, 1985 (agriculture)
Dissolved Oxygen (minimum)	7.0 mg/L	Numeric	Basin Plan, page III-5.00 and Table II-2 (aquatic life)- cold water
Dissolved Oxygen (minimum)	5.0 mg/L	Numeric	Basin Plan, page III-5.00 and Table II-2 (aquatic life)- warm water
E. coli	235 MPN/100 ml	Narrative	USEPA Ambient Water Quality Criteria for Bacteria - 1986 (contact recreation)
Pesticides – Carbamates			
Carbaryl	2.53 ug/L	Narrative	Basin Plan Toxicity Objective: Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (California Department of Fish and Game) (aquatic life)
Carbofuran	0.40 or ND	Numeric: Performance Goal or Pesticide Prohibition	Basin Plan Performance Goal if under Management Plan; Basin Plan Prohibition, page IV-25.00 (MUN, human health)
Methomyl	0.52 ug/L	Narrative	Basin Plan Toxicity Objective, Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (California Department of Fish and Game) (aquatic life)
Pesticides – Organochlorines			
DDD(p,p')	0.00083 ug/L	Numeric	California Toxics Rule (CTR) (human health)
DDE(p,p')	0.00059 ug/L	Numeric	CTR (human health)
DDT(p,p')	0.00059 ug/L	Numeric	CTR (human health)
Dieldrin	0.00014 ug/L	Numeric	CTR (human health)
Pesticides – Organophosphates			
Chlorpyrifos	0.015 ug/L	Numeric	Basin Plan, page III-6.00; San Joaquin River & Delta, pending Sacramento & Feather Rivers (aquatic life)
Demeton	0.1 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA National

Parameter	Water Quality Trigger	Standard Type	Reference (beneficial use)
			Ambient Water Quality Criteria, Freshwater Aquatic Life Protection, Instantaneous (human health, aquatic life)
Diazinon	0.1 ug/L	Numeric	Basin Plan, page III-6.00; San Joaquin River & Delta, pending Sacramento & Feather Rivers (aquatic life)
Dimethoate	1.0 ug/L	Narrative	Basin Plan Toxicity Objective, Notification Level – DHS (MUN, human health)
Malathion	0.1 or ND	Numeric: Performance Goal or Pesticide Prohibition	Basin Plan Performance Goal if under a Management Plan; Basin Plan, page IV-25.00 (human health, aquatic life)
Methidathion	0.7 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA IRIS Reference Dose (MUN, human health)
Parathion, Methyl	0.13 or ND	Numeric: Performance Goal or Pesticide Prohibition	Basin Plan Performance Goal if under a Management Plan; Basin Plan Prohibition, page IV-25.00 (aquatic life, human health)
Pesticides – Pyrethroids			
Biphenthrin	110 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA IRIS Reference Dose (human health)
Cypermethrin, total	0.002 ug/L	Narrative	Basin Plan Toxicity Objective, Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (California Department of Fish and Game) (aquatic life, human health)
Permethrin, total	0.03 ug/L	Narrative	Basin Plan Toxicity Objective, Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (California Department of Fish and Game) (aquatic life)
Pesticides – Herbicides			
Atrazine	0.15ug/L	Narrative	Basin Plan Toxicity Objective, California Public Health Goal for Drinking Water based on toxicity to humans (MUN)
Cyanazine	1.0 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA Health Advisory (human health)
Diuron	2 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA Health Advisory – Cancer Risk (MUN, human health)
Glyphosate	700 ug/L	Numeric	Basin Plan Chemical Constituents Objective, page III-3.00, California Primary MCL (MUN, human health)
Molinate	10 ug/L	Numeric: Performance Goal	Basin Plan Performance Goal if under a Management Plan; Basin Plan Prohibition, page IV 25.00 (MUN, human health, aquatic life)
Simazine	4.0 ug/L	Numeric	Basin Plan Chemical Constituents Objective, page III-3.00, California Primary MCL (MUN, human health)
Thiobencarb	1.0 ug/L	Numeric: Performance Goal	Basin Plan Pesticides Objective if under a Management Plan; Basin Plan prohibition, page IV-25.00 (MUN, human health)
Metals			
Aluminum	87 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA National Ambient Water Quality Criteria, Freshwater Aquatic Life Protection, 4-Day Average (aquatic life)
Antimony	6 ug/L	Numeric	Basin Plan Chemical Constituents Objective, page III-3.00, California Primary MCL (MUN, human health)
Arsenic	10 ug/L	Narrative	Basin Plan Chemical Constituents Objective, USEPA Primary MCL (MUN, human health)

Parameter	Water Quality Trigger	Standard Type	Reference (beneficial use)
Boron	700 ug/L	Narrative	Basin Plan Chemical Constituents Objective, <i>Water Quality for Agriculture</i> , Ayers and Westcot, 1985 (agriculture)
Cadmium	0.07 ug/L	Narrative or Numeric	Basin Plan, California Public Health Goal For Drinking Water based on toxicity to humans (MUN, human health)
Chromium	50 ug/L	Numeric	Basin Plan Chemical Constituents Objective, page III-3.00, California Primary MCL (MUN, human health)
Chromium VI	11 ug/L	Numeric	CTR (aquatic life)
Copper	Variable. Depends on hardness	Numeric	CTR Freshwater Aquatic Life Protection, 4-day Average (aquatic life)
Lead	2 ug/L or Variable. Depends on hardness	Narrative or Numeric	Basin Plan narrative toxicity Objective, California Public Health Goal; CTR Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average - varies with water hardness (MUN, aquatic life)
Mercury	0.05 ug/L	Numeric	CTR, Human Health Protection – Sources of Drinking Water 30-day Average (MUN, human health, aquatic life)
Nickel	12 ug/L or Variable. Depends on hardness	Narrative and Numeric	Basin Plan Toxicity Objective, California Public Health Goal; CTR Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average - varies with water hardness (MUN, aquatic life)
Selenium	5.0 ug/L	Numeric	CTR, Freshwater Aquatic Life Protection, 4-Day Average (aquatic life)
Silver	35 ug/L or variable - hardness-dependent	Numeric or Narrative	Basin Plan Toxicity Objective and USEPA IRIS Reference Dose; CTR Aquatic Life Criteria instantaneous maximum (MUN, human health, aquatic life)
Zinc	Variable. Depends on hardness	Numeric	Basin Plan Objectives, page III-4.00; CTR Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (MUN, aquatic life, agriculture, human health)

ZONE 4

Parameter	Water Quality Trigger	Standard Type	Reference (beneficial use)
General			
pH	6.5 – 8.3	Numeric	Tulare Basin Plan, page III-3 (multiple)
Electrical Conductivity	Variable, depends on water body	Numeric	Tulare Basin Plan, page III-5 (MUN, Agriculture)
Dissolved Oxygen (minimum)	Variable, depends on water body and aquatic life designation	Numeric	Tulare Basin Plan, page III-3 and Table III-1 (aquatic life)
Turbidity	Variable, depends on natural turbidity	Numeric	Basin Plans - increase varies based on natural turbidity
Total Dissolved Solids	450 mg/L	Narrative	<i>Water Quality for Agriculture</i> , Ayers and Westcot, 1985 (Agriculture)
E. coli	235 MPN/100 mL	Narrative	USEPA Ambient Water Quality Criteria for Bacteria – 1986 (contact recreation)
Pesticides – Carbamates			

Parameter	Water Quality Trigger	Standard Type	Reference (beneficial use)
Carbaryl	2.53 ug/L	Narrative	Basin Plan Toxicity Objective: Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (California Department of Fish and Game) (aquatic life)
Carbofuran	0.5 ug/L	Narrative	Basin Plan Toxicity objective, USEPA National Ambient Water Quality Criteria for Aquatic Life Protection, instantaneous maximum (aquatic life)
Methomyl	0.52 ug/L	Narrative	Basin Plan Toxicity Objective, Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (California Department of Fish and Game) (aquatic life)
Pesticides – Organochlorines			
DDD(p,p')	0.00083 ug/L	Narrative	California Toxics Rule (CTR) (human health)
DDE(p,p')	0.00059 ug/L	Narrative	CTR (human health)
DDT(p,p')	0.00059 ug/L	Narrative	CTR (human health)
Dieldrin	0.00014 ug/L	Narrative	CTR (human health)
Endrin	0.036 ug/L	Numeric	CTR, Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (aquatic life)
Methoxychlor	0.03 ug/L	Numeric or Narrative	Basin Plan Toxicity Objective, USEPA National Ambient Water Quality Criteria - Freshwater Aquatic Life Protection - instantaneous maximum (aquatic life)
Pesticides – Organophosphates			
Azinphos methyl	0.01 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA National Ambient Water Quality Criteria - Freshwater Aquatic Life Protection (aquatic life)
Chlorpyrifos	0.015 ug/L	Narrative	Sacramento San Joaquin Basin Plan, San Joaquin River & Delta numeric standard pending Sacramento & Feather Rivers numeric standard
Diazinon	0.1 ug/L	Narrative	Sacramento San Joaquin Basin Plan, San Joaquin River & Delta numeric standard pending Sacramento & Feather Rivers numeric standard
Dimethoate	1.0 ug/L	Narrative	Basin Plan Toxicity Objective, Notification Level – DHS (human health)
Disulfoton	0.05 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA National Ambient Water Quality Criteria - Freshwater Aquatic Life Protection - instantaneous maximum (aquatic life)
Malathion	0.43 ug/L	Narrative	Basin Plan Toxicity Objective, Water Quality Criteria, 1-hour average, California Department of Fish & Game (aquatic life)
Methidathion	0.07 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA IRIS Reference Dose (MUN, human health)
Parathion, Methyl	0.08 ug/L	Narrative	Basin Plan Toxicity Objective, Water Quality Criteria, instantaneous maximum, California Department of Fish & Game (aquatic life)
Pesticides – Herbicides			
Atrazine	0.15 ug/L	Narrative	Basin Plan Toxicity Objective, California Public Health Goal (MUN, human health)
Cyanazine	1.0 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA Health Advisory (human health)
Diuron	14 ug/L	Narrative	Basin Plan Toxicity Objective, USEPA Health

Parameter	Water Quality Trigger	Standard Type	Reference (beneficial use)
			Advisory (MUN, human health)
Glyphosate	700 ug/L	Numeric	Basin Plan Chemical Constituents Objective, California Primary MCL (MUN, human health)
Simazine	4.0 ug/L	Numeric	Basin Plan Chemical Constituents Objective, California Primary MCL (MUN, human health)
Thiobencarb	1.0 ug/L	Numeric	Basin Plan Chemical Constituents Objective, California Secondary MCL (MUN)
Metals			
Arsenic	10 ug/L	Narrative	Basin Plan Chemical Constituents Objective, USEPA Primary MCL (MUN, human health)
Boron	1000 ug/L	Numeric	Tulare Basin Plan, page IV-3
Copper	Variable. Depends on hardness	Numeric	CTR, Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average – varies with water hardness
Lead	2 ug/L or Variable. Depends on hardness	Numeric or Narrative	Basin Plan narrative toxicity Objective, California Public Health Goal; CTR, Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average – varies with water hardness (MUN, aquatic life)
Nickel	12 or Variable. Depends on hardness	Numeric or Narrative	Basin Plan Toxicity Objective, California Public Health Goal; CTR, Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average - varies with water hardness
Zinc	Variable. Depends on hardness	Numeric	CTR Freshwater Aquatic Life Protection - Continuous Concentration, 4-Day Average (aquatic life)