

## Attachment A-1

<b>Table 64431-A – Inorganic Chemicals*</b>	
<b>Chemical</b>	<b>Maximum Contamination Levels (mg/L)</b>
Aluminum	1
Antimony	0.006
Arsenic	0.05
Asbestos	7 MFL**
Barium	1
Beryllium	0.004
Cadmium	0.005
Chromium	0.05
Cyanide	0.15
Mercury	0.002
Nickel	0.1
Nitrite (as nitrogen)	1
Selenium	0.05
Thallium	0.002
Fluoride	2

California Code of Regulation (CCR) Title 22, Section 64431

\*\*MFL = million fibers per liter; MCL for fibers exceeding 10µm in length.

## Attachment A-2

<b>Table 4 – Radioactivity*</b>	
<b>Chemical</b>	<b>Maximum Contamination Levels (pCi/L)</b>
Combined Radium-226 and Radium-228	5
Gross Alpha Particle Activity (Including Radium-226 but Excluding Radon and Uranium)	15
Tritium	20,000
Strontium-90	8
Gross Beta Particle Activity	50
Uranium	20

California Code of Regulation (CCR) Title 22, Section 64443

\*Last update: September 12, 2003.

### Attachment A-3

<b>Table 64444-A – Organic Chemicals*</b>	
<b>Chemical</b>	<b>Maximum Contamination Levels (mg/L)</b>
<b>(a) Volatile Organic Chemicals</b>	
Benzene	0.001
Carbon Tetrachloride (CTC)	0.0005
1,2-Dichlorobenzene	0.6
1,4-Dichlorobenzene	0.005
1,1-Dichloroethane	0.005
1,2-Dichloroethane (1,2-DCA)	0.0005
1,1-Dichloroethene (1,1-DCE)	0.006
Cis-1,2-Dichloroethylene	0.006
Trans-1,2-Dichloroethylene	0.01
Dichloromethane	0.005
1,2-Dichloropropane	0.005
1,3-Dichloropropene	0.0005
Ethylbenzene	0.3
Methyl-tert-butyl-ether (MTBE)	0.013
Monochlorobenzene	0.07
Styrene	0.1
1,1,2,2-Tetrachloroethane	0.001
Tetrachloroethylene (PCE)	0.005
Toluene	0.15
1,2,4-Trichlorobenzene	0.005
1,1,1-Trichloroethane	0.2
1,1,2-Trichloroethane	0.005
Trichloroethylene (TCE)	0.005
Trichlorofluoromethane	0.15
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2
Vinyl Chloride	0.0005
Xylenes (m,p)	1.75**
<b>(b) Non-Volatile synthetic Organic Chemicals</b>	
Alachlor	0.002
Atrazine	0.001
Bentazon	0.018
Benzo(a)pyrene	0.0002
Carbofuran	0.018
Chlordane	0.0001
2,4-D	0.07
Dalapon	0.2
1,2-Dibromo-3-chloropropane (DBCP)	0.0002

(Continuous to the Next Page)  
 (Continuous from the Previous Page)

<b>Table 64444-A – Organic Chemicals*</b>	
<b>Chemical</b>	<b>Maximum Contamination Levels (mg/L)</b>
<b>(b) Non-Volatile synthetic Organic Chemicals</b>	
Di(2-ethylhexyl)adipate	0.4
Di(2-ethylhexyl)phthalate	0.004
Dinoseb	0.007
Diquat	0.02
Endothall	0.1
Endrin	0.002
Ethylene Dibromide (EDB)	0.00005
Glyphosate	0.7
Heptachlor	0.00001
Heptachlor Epoxide	0.00001
Hexachlorobenzene	0.001
Hexachlorocyclopentadiene	0.05
Lindane	0.0002
Methoxychlor	0.03
Molinate	0.02
Oxamyl	0.05
Pentachlorophenol	0.001
Picloram	0.5
Polychlorinated Biphenyls	0.0005
Simazine	0.004
Thiobencarb	0.07
Toxaphene	0.003
2,3,7,8-TCDD (Dioxin)	$3 \times 10^{-8}$
2,4,5-TP (Silvex)	0.05

California Code of Regulation (CCR) Title 22, Section 64444

\*Last update: September 12, 2003.

\*\*MCL is for either a single isomer or the sum of the isomers.

### Attachment A-4

<b>Table 64533-A – Primary MCLs for Disinfection Byproducts*</b>	
<b>Constituent</b>	<b>Maximum Contamination Levels (mg/L)</b>
Total Trihalomethanes (TTHM)	0.080
Bromodichloromethane	
Bromoform	
Chloroform	
Dibromochloromethane	
Haloacetic acid (five) (HAA5)	0.060
Monochloroacetic acid	
Dichloroacetic acid	
Trichloroacetic acid	
Monobromoacetic acid	
Dibromoacetic acid	
Bromate	0.010
Chlorite	1.0

California Code of Regulation (CCR) Title 22, Section 64533, Chapter 15.5

\*Last update: January 28, 2004.

## Attachment A-5

### Monitoring Parameters for General Physical and General Mineral\*

Asbestos	Potassium	Foaming Agents
Calcium	Sodium	Odor
Chloride	Sulfate	Specific Conductance
Copper	Zinc	Total Dissolved Solids
Iron	Color	Total Hardness
Manganese	Corrosivity	

California Code of Regulation (CCR) Title 22, Section 64449

\*Last update: September 12, 2003

### Attachment A-6

<b>Table 64449-A – Secondary Maximum Contamination Levels Consumer Acceptance Limits*</b>	
<b>Chemical</b>	<b>Units</b>
Aluminum	0.2 mg/L
Copper	1.0 mg/L
Corrosivity	Non-corrosive
Foam Agents (MBAS)	0.5 mg/L
Iron	0.3 mg/L
Manganese	0.05 mg/L
Methyl-tert-butyl-ether (MTBE)	0.005 mg/L
Odor – Threshold	3 units
Silver	0.1 mg/L
Thiobencarb	0.001 mg/L
Turbidity	5 units
Zinc	5.0 mg/L

California Code of Regulation (CCR) Title 22, Section 64449

\*Last update: September 12, 2003.

### Attachment A-7

Chemicals of Concern to the Regional Board		
Note	Chemical	Units (mg/L)
1	n-Butylbenzene	0.26
2	sec-Butylbenzene	0.26
3	tert-Butylbenzene	0.26
4	Carbon disulfide	0.16
5	Chlorate	0.8
6	2-Chlorotoluene	0.14
7	4-Chlorotoluene	0.14
8	Diazinon	6
9	Dichlorodifluoromethane (Freon 12)	1
10	1,4-Dioxane	0.003
11	Ethylene glycol	14
12	Formaldehyde	0.1
13	Isopropylbenzene	0.77
14	Manganese	0.5
15	Methyl isobutyl ketone (MIBK)	0.12
16	Naphthalene	0.017
17	n-Nitrosodiethylamine (NDEA)	0.00001
18	n-Nitrosodimethylamine (NDMA)	0.00001
19	Perchlorate	0.006
20	n-Propylbenzene	0.26
21	Tertiary butyl alcohol (TBA)	0.012
22	1,2,3-Trichloropropane (1,2,3-TCP)	0.000005
23	1,2,4-Trimethylbenzene	0.33
24	1,3,5-Trimethylbenzene	0.33
25	Vanadium	0.05

#### Notes for Chemicals of Concern to the Regional Board

- n-Butylbenzene:**  
 ENDPOINT: Noncancer – increased kidney weight in rats, using cumene (isopropylbenzene) as a surrogate.  
 REFERENCES: National Center for Environmental Assessment (NCEA), 1997, Risk Assessment Issue Paper for: Derivation of Provisional Chronic RfDs for n-Butylbenzene, sec-Butylbenzene, tert-Butylbenzene, and n-Propylbenzene. NCEA, US EPA (97-009/6-5-97).
- sec-Butylbenzene:**  
 ENDPOINT: Noncancer – increased kidney weight in rats, using cumene (isopropylbenzene) as a surrogate.  
 REFERENCE: Office of Environmental Health Hazard Assessment (OEHHA), 2000.



3. **tert-Butylbenzene:**  
ENDPOINT: Noncancer – increased kidney weight in rats, using cumene (isopropylbenzene) as a surrogate.  
REFERENCE: OEHHA, 2000.
4. **Carbon disulfide:**  
ENDPOINT: Noncancer – decreased motor conduction velocity in people.  
REFERENCE: OEHHA, 2001.
5. **Chlorate:**  
ENDPOINT: Noncancer – pituitary gland vacuolization & thyroid gland depletion in rats.  
REFERENCE: OEHHA, 2002.
6. **2-Chlorotoluene:**  
ENDPOINT: Noncancer – decrease in body weight gain in rats.  
REFERENCE: IRIS, 1990.
7. **4-Chlorotoluene:**  
ENDPOINT: Noncancer – decrease in body weight gain in rats.  
REFERENCE: IRIS, 1990.
8. **Diazinon:**  
ENDPOINT: Noncancer – neurotoxicity.  
REFERENCE: Health Effects Advisory Summary Tables (HEAST), FY 1997 Update, US EPA, Solid Waste and Emergency Response, 9200.6-303 (97-1), EPA-540-R-97-036, July 1997.
9. **Dichlorodifluoromethane:**  
ENDPOINT: Noncancer – reduced body weight in rats.  
REFERENCE: IRIS, 1995.
10. **1,4-Dioxane:**  
ENDPOINT: Cancer in rats, mice, and guinea pigs.  
REFERENCE: IRIS, 1990.
11. **Ethylene glycol:**  
ENDPOINT: Noncancer – kidney toxicity in rats.  
REFERENCE: IRIS, 1989.
12. **Formaldehyde:**  
ENDPOINT: Noncancer by ingestion – reduced wight gain, histopathology in rats.  
REFERENCE: IRIS, 1990.
13. **Isopropylbenzene:**  
ENDPOINT: Noncancer – increased kidney weight in rats.  
REFERENCE: IRIS, 1997.
14. **Manganese:**  
ENDPOINT: Noncancer – neurotoxicity, based on human data.  
REFERENCE: IRIS, 1996.
15. **Methyl isobutyl ketone:**  
ENDPOINT: Noncancer – increased kidney and liver weight, kidney pathology in rats.  
REFERENCE: OEHHA, 1999.
16. **Naphthalene:**  
ENDPOINT: Noncancer – decreased body weight in rats.  
REFERENCE: IRIS, 1998.

17. **n-Nitrosodiethylamine:**  
ENDPOINT: Cancer in a variety of laboratory animals.  
REFERENCE: the  $10^{-6}$  cancer risk level is 0.000001 mg/L, derived from the  $10^{-5}$  lifetime cancer risk level in 22 CCR § 12705.
18. **n-Nitrosodimethylamine:**  
ENDPOINT: Cancer in a variety of laboratory animals.  
REFERENCE: the  $10^{-6}$  cancer risk level is 0.000002 mg/L, derived from the  $10^{-5}$  lifetime cancer risk level in 22 CCR § 12705.
19. **Perchlorate:**  
ENDPOINT: Noncancer – thyroid gland effects, based on humans.  
REFERENCE: Public health goal for perchlorate in drinking water, OEHHA, March 2004.
20. **n-Propylbenzene:**  
ENDPOINT: Noncancer – increased kidney weight in rats, using cumene (isopropylbenzene) as a surrogate.  
REFERENCE: OEHHA, 2000.
21. **Tertiary butyl alcohol:**  
ENDPOINT: Cancer – renal adenomas and carcinomas in male rats, thyroid adenomas in female mice.  
REFERENCE: OEHHA, 1999.
22. **1,2,3-Trichloropropane:**  
ENDPOINT: Cancer – benign and malignant tumors in multiple sites in rats.  
REFERENCE: HEAST, 1997. Health Effects Advisory Summary Tables (HEAST), FY 1997 Update, US Environmental Protection Agency (US EPA), Solid Waste and Emergency Response, 9200.6-303 (97-1), EPA-540-R-97-036, July 1997. OEHHA concurred with the notification level for 1,2,3-TCP via a May 28, 1999 memorandum.
23. **1,2,4-Trimethylbenzene:**  
ENDPOINT: Noncancer – increased serum phosphorus levels in rats.  
REFERENCE: OEHHA, 2001.
24. **1,3,5-Trimethylbenzene:**  
ENDPOINT: Noncancer – increased serum phosphorus levels in rats.  
REFERENCE: OEHHA, 2001.
25. **Vanadium:**  
ENDPOINT: Noncancer – developmental and reproductive effects in rats.  
REFERENCE: OEHHA, 2000.

## Attachment A-8

### Monitoring for Remaining Priority Pollutants

<b>Pesticides</b>	<b>Base/Neutral Extractibles</b>	Di-n-octyl phthalate
Aldrin	Acenaphthene	Diethyl phthalate
Dieldrin	Benzidine	Dimethyl phthalate
4,4'-DDT	Hexachloroethane	Benzo(a)anthracene
4,4'-DDE	Bis(2-chloroethyl)ether	Benzo(a)fluoranthene
4,4'-DDD	2-chloronaphthalene	Benzo(k)fluoranthene
Alpha-endosulfan	1,3-dichlorobenzene	Chrysene
Beta-endosulfan	3,3'-dichlorobenzidine	Acenaphthylene
Endosulfan sulfate	2,4-dinitrotoluene	Anthracene
Endrin aldehyde	2,6-dinitrotoluene	1,12-benzoperylene
Alpha-BHC	1,2-diphenylhydrazine	Fluorene
Beta-BHC	Fluoranthene	Phenanthrene
Delta-BHC	4-chlorophenyl phenyl ether	1,2,5,6-dibenzanthracene
<b>Acid Extractibles</b>	4-bromophenyl phenyl ether	Indeno(1,2,3-cd)pyrene
2,4,6-trichlorophenol	Bis(2-chloroisopropyl)ether	Pyrene
P-chloro-m-cresol	Bis(2-chloroethoxy)methane	<b>Volatile Organics</b>
2-chlorophenol	Hexachlorobutadiene	Acrolein
2,4-dichlorophenol	Isophorone	Acrylonitrile
2,4-dimethylphenol	Nitrobenzene	Chlorobenzene
2-nitrophenol	N-nitrosodi-n-propylamine	Chloroethane
4-nitrophenol	N-nitrosodiphenylamine	1,1-dichloroethylene
2,4-dinitrophenol	Bis(2-ethylhexyl)phthalate	Methyl chloride
4,6-dinitro-o-cresol	Butyl benzyl phthalate	Methyl bromide
Phenol	Di-n-butyl phthalate	2-chloroethyl vinyl ether

**Attachment A-9**  
**Water Replenishment District of**  
**Southern California Alamitos Barrier Recycled Water Project –**  
**Findings of Fact**