

State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

ORDER NO. R4-2010-0048
AMENDING
ORDER NO. R4-2008-0029
(NPDES NO. CA0054097)

ISSUED TO

CITY OF OXNARD
OXNARD WASTEWATER TREATMENT PLANT

The California Regional Water Quality Control Board, Los Angeles Region (hereinafter Regional Board), finds:

1. On October 2, 2008, this Regional Board adopted and issued Order No. R4-2008-0083 for the City of Oxnard's Groundwater Enhancement and Treatment Program – Nonpotable Reuse Phase I Project. This Phase I Project will use the Advanced Water Purification Facility (AWPF) and divert 8 to 9 million gallons per day (MGD) of secondary effluent from the Oxnard Wastewater Treatment Plant (Facility) in order to produce 6.25 MGD of highly purified recycled water for nonpotable reuses. The brine waste produced at the AWPF will be discharged to the Pacific Ocean through the current ocean outfall regulated under Order No. R4-2008-0029, which was adopted and issued by this Regional Board on May 1, 2008.
2. On October 19, 2009, Regional Board staff held a meeting with City of Oxnard staff who provided a briefing on the revised time schedule for design and construction of the AWPF and the necessary changes to the NPDES Permit Order No. R4-2008-0029.
3. On November 19, 2009, the City of Oxnard sent a letter to the Regional Board requesting a modification to the NPDES Permit Order No. R4-2008-0029 to reflect the diversion of secondary effluent, which will receive advanced treatment at the Groundwater Enhancement and Treatment Program – Nonpotable Reuse Phase I Project.
4. The mass-based effluent limitations for the wastewater constituents specified in Order No. R4-2008-0029 are based on 31.7 MGD, the design capacity of the Facility.
5. The purpose of this Order is to amend Order No. R4-2008-0029 to reflect the maximal diversion of 6.25 MGD of recycled water for nonpotable reuses. The Regional Board notified the City of Oxnard and interested agencies and persons of its intent to adopt the amended waste discharge requirements.

The Regional Board, in a public hearing, heard and considered all testimony pertinent to this matter. All Orders referred to above, Regional Board files on this matter, and records of hearings and testimony therein are included in the administrative record for this matter.

IT IS HEREBY ORDERED that the Order No. R4-2008-0029, adopted by this Regional Board on May 1, 2008, is hereby amended as follows:

1. Table 2 on Page 1

Table 2. Discharge Location

Discharge Point	Effluent Description	Discharge Point Latitude	Discharge Point Longitude	Receiving Water
001	Secondary treated wastewater plus brine waste	34°, 07', 24" N	119°, 11', 26" W	Pacific Ocean

2. Limitations and Discharge Requirements, Sections II.A. and II.B. on Page 5

A. Background. The City of Oxnard (hereinafter Discharger) is currently discharging to the Pacific Ocean pursuant to Order No. R4-2002-0129 and National Pollutant Discharge Elimination System (NPDES) Permit No. CA0054097. The Discharger submitted Report of Waste Discharge, dated January 9, 2007, and applied for an NPDES permit renewal to discharge up to 31.7 MGD of secondary-treated wastewater from the Oxnard Wastewater Treatment Plant, hereinafter Facility. The application for the NPDES permit renewal and Report of Waste Discharge was deemed complete on January 22, 2008.

The City of Oxnard's Groundwater Enhancement and Treatment Program – Nonpotable Reuse Phase I Project (GREAT Program – Phase I Project), Order No. R4-2008-0083, plans to divert 8 to 9 million gallons per day (MGD) of secondary effluent from the Oxnard Wastewater Treatment Plant (Facility) in order to produce 6.25 MGD of highly purified recycled water for nonpotable reuses. The brine waste produced at the AWPf will be discharged to the Pacific Ocean through the current ocean outfall regulated by Order No. R4-2008-0029. In September 2011, when the AWPf comes on-line, the secondary-treated wastewater from the Facility may be reduced up to 6.25 MGD.

For the purposes of this Order, references to the “discharger” or “permittee” in applicable federal and state laws, regulations, plans, or policy are held to be equivalent to references to the Discharger herein.

B. Facility Description. Treated wastewater and brine waste produced from the AWPf are discharged from Discharge Point No. 001 (see Table 2. on cover page) to the Pacific Ocean off Ormond Beach, a water of the United States. Attachment B provides a map of the area around the facility. Attachment C provides a flow schematic of the facility.

3. Limitations and Discharge Requirements, Section III.A. on Page 12

A. Wastes discharged from Discharge Serial No. 001 shall be limited to secondary treated wastewater and brine waste produced at the AWPf of the GREAT Program – Phase I Project. Discharge of wastewater at a location different from Discharge Serial No. 001 in this Order is prohibited.

4. Limitations and Discharge Requirements, Section IV.A.1.a. on Pages 13 to 18

a. Before, during, and after start-up of the City of Oxnard’s GREAT Program – Phase I Project, the Discharger shall maintain compliance with the following effluent limitations, at Discharge Point 001, with compliance measured at Monitoring Location EFF-001 as described in the attached MRP.

Table 7. Effluent Limitations

Parameter	Units	Effluent Limitations ³					Performance Goals
		Average Monthly**	Average Weekly**	Maximum Daily**	Instantaneous Minimum**	Instantaneous Maximum**	Average Monthly
Major Wastewater Constituents							
Biochemical Oxygen Demand 5-day @ 20°C	mg/L	30	45	--	--	--	--
	lbs/day	7,960	11,900	--	--	--	--
Total Suspended Solids	mg/L	30	45	--	--	--	--
	lbs/day	7,960	11,900	--	--	--	--
pH	standard units	--	--	--	6.0	9.0	--
Oil and Grease	mg/L	25	40	--	--	75	--
	lbs/day	6,630	10,600	--	--	19,900	--
Settleable Solids	ml/L	1.0	1.5	--	--	3.0	--
Turbidity	NTU	75	100	--	--	225	--

³ Effluent limitations for conventional, nonconventional, and toxic pollutants were calculated based on effluent limitations in *Table A*, and water quality objectives in *Table B* of the Ocean Plan. The minimum dilution ratio used to calculate effluent limitations for nonconventional and toxic pollutants based on water quality objectives in *Table B* of the Ocean Plan is 98:1 (i.e., 98 parts seawater to one part effluent). This ratio was calculated by the State Board. However, effluent limitations for radioactivity are not dependent on the initial dilution ratio. The mass emission rate is the allowable maximum mass load per day, which is based on the design capacity multiplied by effluent concentration limitation and a conversion factor. However, the Discharger shall report the mass emission rate as “actual concentration in the secondary-treated plus brine waste effluent multiplied by the actual secondary-treated plus brine waste effluent flow and a conversion factor.” During wet-weather storm events in which the flow exceeds the design capacity, the mass discharge rate limitations shall not apply, and concentration limitations will provide the only applicable effluent limitations. The calculations of mass emission rates are available in the accompanying Fact Sheet.

** See Section VII of this Order and Attachment A for definition of terms.

Parameter	Units	Effluent Limitations ³					Performance Goals
		Average Monthly ^{**}	Average Weekly ^{**}	Maximum Daily ^{**}	Instantaneous Minimum ^{**}	Instantaneous Maximum ^{**}	Average Monthly
Marine Aquatic Life Toxicants							
Arsenic ⁴	µg/L	--	--	--	--	--	7.4
	lbs/day	--	--	--	--	--	2.0
Cadmium ⁴	µg/L	--	--	--	--	--	1
	lbs/day	--	--	--	--	--	0.27
Chromium (VI) ⁴	µg/L	--	--	--	--	--	8
	lbs/day	--	--	--	--	--	2.1
Copper ⁴	µg/L	--	--	--	--	--	32
	lbs/day	--	--	--	--	--	8.5
Lead ⁴	µg/L	--	--	--	--	--	23
	lbs/day	--	--	--	--	--	6.1
Mercury ⁴	µg/L	--	--	--	--	--	0.3
	lbs/day	--	--	--	--	--	0.080
Nickel ⁴	µg/L	--	--	--	--	--	19
	lbs/day	--	--	--	--	--	5.0
Selenium ⁴	µg/L	--	--	--	--	--	4.9
	lbs/day	--	--	--	--	--	1.3
Silver ⁴	µg/L	--	--	--	--	--	1
	lbs/day	--	--	--	--	--	0.27
Zinc ⁴	µg/L	--	--	--	--	--	38 ⁵
	lbs/day	--	--	--	--	--	10
Cyanide	µg/L	--	--	--	--	--	25
	lbs/day	--	--	--	--	--	6.6
Chlorine Residual	mg/L	--	--	--	--	--	0.1
	lbs/day	--	--	--	--	--	0.027
Ammonia as N	mg/L	--	--	--	--	--	26
	lbs/day	--	--	--	--	--	6.9
Phenolic compounds (non-chlorinated) ^{**}	µg/L	--	--	--	--	--	5
	lbs/day	--	--	--	--	--	1.3
Phenolic compounds (chlorinated) ^{**}	µg/L	--	--	--	--	--	0.42
	lbs/day	--	--	--	--	--	0.11
Endosulfan ^{**}	µg/L	--	--	--	--	--	0.05
	lbs/day	--	--	--	--	--	0.013

^{**} See Section VII of this Order and Attachment A for definition of terms.

⁴ Represents total recoverable metals value.

⁵ The revised Performance Goal for Zinc of 38 µg/L is based on the July 30, 2008 letter, "APPROVAL OF REQUEST FOR NEW ZINC PERFORMANCE GOAL – CITY OF OXNARD, OXNARD WASTEWATER TREATMENT PLANT (NPDES NO. CA0054097, CI NO. 2022)."

^{**} See Attachment A for definition of terms.

Parameter	Units	Effluent Limitations ³					Performance Goals
		Average Monthly**	Average Weekly**	Maximum Daily**	Instantaneous Minimum**	Instantaneous Maximum**	Average Monthly
Marine Aquatic Life Toxicants							
HCH**	µg/L	--	--	--	--	--	0.1
	lbs/day	--	--	--	--	--	0.027
Endrin	µg/L	--	--	--	--	--	0.05
	lbs/day	--	--	--	--	--	0.013
Chronic toxicity	TUc	--	--	99	--	--	18
Radioactivity							
Gross alpha	PCi/L	--	--	15	--	--	--
Gross beta	PCi/L	--	--	50	--	--	--
Combined Radium-226 & Radium-228	PCi/L	--	--	5.0	--	--	--
Tritium	PCi/L	--	--	20,000	--	--	--
Strontium-90	PCi/L	--	--	8.0	--	--	--
Uranium	PCi/L	--	--	20	--	--	--
Human Health Toxicants – Non Carcinogens							
Acrolein	µg/L	--	--	--	--	--	10
	lbs/day	--	--	--	--	--	2.7
Antimony ³	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
Bis(2-chloroethoxy) methane	µg/L	--	--	--	--	--	25
	lbs/day	--	--	--	--	--	6.6
Bis(2-chloroisopropyl) ether	µg/L	--	--	--	--	--	10
	lbs/day	--	--	--	--	--	2.7
Chlorobenzene	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
Chromium (III) ³	µg/L	--	--	--	--	--	8
	lbs/day	--	--	--	--	--	2.1
Di-n-butyl-phthalate	µg/L	--	--	--	--	--	0.33
	lbs/day	--	--	--	--	--	0.088
Dichlorobenzenes**	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
Diethyl phthalate	µg/L	--	--	--	--	--	0.25
	lbs/day	--	--	--	--	--	0.066
Dimethyl phthalate	µg/L	--	--	--	--	--	10
	lbs/day	--	--	--	--	--	2.7

** See Section VII of this Order and Attachment A for definition of terms.

Parameter	Units	Effluent Limitations ³					Performance Goals
		Average Monthly**	Average Weekly**	Maximum Daily**	Instantaneous Minimum**	Instantaneous Maximum**	Average Monthly
Human Health Toxicants – Non Carcinogens							
2-Methyl-4,6-dinitrophenol	µg/L	--	--	--	--	--	25
	lbs/day	--	--	--	--	--	6.6
2,4-Dinitrophenol	µg/L	--	--	--	--	--	25
	lbs/day	--	--	--	--	--	6.6
Ethyl benzene	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
Fluoranthene	µg/L	--	--	--	--	--	0.25
	lbs/day	--	--	--	--	--	0.066
Hexachlorocyclopentadiene	µg/L	--	--	--	--	--	25
	lbs/day	--	--	--	--	--	6.6
Nitrobenzene	µg/L	--	--	--	--	--	5
	lbs/day	--	--	--	--	--	1.3
Thallium ³	µg/L	--	--	--	--	--	5
	lbs/day	--	--	--	--	--	1.3
Toluene	µg/L	--	--	--	--	--	0.6
	lbs/day	--	--	--	--	--	0.16
Tributyltin	µg/L	--	--	--	--	--	0.0263
	lbs/day	--	--	--	--	--	0.007
1,1,1-Trichloroethane	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
Human Health Toxicants – Carcinogens							
Acrylonitrile	µg/L	--	--	--	--	--	10
	lbs/day	--	--	--	--	--	2.7
Aldrin	µg/L	--	--	--	--	--	0.025
	lbs/day	--	--	--	--	--	0.0066
Benzene	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
Benzidine ⁶	µg/L	0.0068	--	--	--	--	--
	lbs/day	0.0018	--	--	--	--	--
Beryllium ³	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66

** See Section VII of this Order and Attachment A for definition of terms.

⁶ The result of reasonable potential analysis is inconclusive. Therefore, limitations are carried over from Order No. R4-2002-0129 to avoid backsliding.

Parameter	Units	Effluent Limitations ³					Performance Goals
		Average Monthly**	Average Weekly**	Maximum Daily**	Instantaneous Minimum**	Instantaneous Maximum**	Average Monthly
Human Health Toxicants – Carcinogens							
Bis(2-chloroethyl) ether	µg/L	--	--	--	--	--	5
	lbs/day	--	--	--	--	--	1.3
Bis(2-ethylhexyl) phthalate	µg/L	--	--	--	--	--	2.0
	lbs/day	--	--	--	--	--	0.53
Carbon tetrachloride	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
Chlordane	µg/L	--	--	--	--	--	0.5
	lbs/day	--	--	--	--	--	0.13
Chlorodibromomethane	µg/L	--	--	--	--	--	1.3
	lbs/day	--	--	--	--	--	0.34
Chloroform	µg/L	--	--	--	--	--	1.4
	lbs/day	--	--	--	--	--	0.37
DDT**	µg/L	--	--	--	--	--	0.05
	lbs/day	--	--	--	--	--	0.013
1,4-Dichlorobenzene	µg/L	--	--	--	--	--	3
	lbs/day	--	--	--	--	--	0.80
3,3'-Dichlorobenzidine	µg/L	--	--	--	--	--	25
	lbs/day	--	--	--	--	--	6.6
1,2-Dichloroethane	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
1,1-Dichloroethylene	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
Bromodichloromethane	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
Dichloromethane**	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
1,3-Dichloropropene	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
Dieldrin	µg/L	--	--	--	--	--	0.05
	lbs/day	--	--	--	--	--	0.013
2,4-Dinitrotoluene	µg/L	--	--	--	--	--	25
	lbs/day	--	--	--	--	--	6.6
1,2-Diphenylhydrazine	µg/L	--	--	--	--	--	5
	lbs/day	--	--	--	--	--	1.3

** See Section VII of this Order and Attachment A for definition of terms.

Parameter	Units	Effluent Limitations ³					Performance Goals
		Average Monthly**	Average Weekly**	Maximum Daily**	Instantaneous Minimum**	Instantaneous Maximum**	Average Monthly
Human Health Toxicants – Carcinogens							
Halomethanes**	µg/L	--	--	--	--	--	4.4
	lbs/day	--	--	--	--	--	1.2
Heptachlor	µg/L	--	--	--	--	--	0.05
	lbs/day	--	--	--	--	--	0.013
Heptachlor epoxide ⁵	µg/L	0.002	--	--	--	--	--
	lbs/day	0.00053	--	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--	--	5
	lbs/day	--	--	--	--	--	1.3
Hexachlorobutadiene	µg/L	--	--	--	--	--	5
	lbs/day	--	--	--	--	--	1.3
Hexachloroethane	µg/L	--	--	--	--	--	5
	lbs/day	--	--	--	--	--	1.3
Isophorone	µg/L	--	--	--	--	--	5
	lbs/day	--	--	--	--	--	1.3
N-Nitrosodimethylamine	µg/L	--	--	--	--	--	25
	lbs/day	--	--	--	--	--	6.6
N-Nitrosodi-N-propylamine	µg/L	--	--	--	--	--	25
	lbs/day	--	--	--	--	--	6.6
N-Nitrosodiphenylamine	µg/L	--	--	--	--	--	5
	lbs/day	--	--	--	--	--	1.3
PAHs**	µg/L	--	--	--	--	--	0.097
	lbs/day	--	--	--	--	--	0.026
PCBs ⁵	µg/L	0.0019	--	--	--	--	--
	lbs/day	0.00050	--	--	--	--	--
TCDD equivalents ⁵	µg/L	0.000000 39	--	--	--	--	--
	lbs/day	1.0E-7	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
Tetrachloroethylene	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
Toxaphene	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
Trichloroethylene	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66

** See Section VII of this Order and Attachment A for definition of terms.

Parameter	Units	Effluent Limitations ³					Performance Goals
		Average Monthly**	Average Weekly**	Maximum Daily**	Instantaneous Minimum**	Instantaneous Maximum**	Average Monthly
Human Health Toxicants – Carcinogens							
1,1,2-Trichloroethane	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66
2,4,6-Trichlorophenol	µg/L	--	--	--	--	--	50
	lbs/day	--	--	--	--	--	13
Vinyl chloride	µg/L	--	--	--	--	--	2.5
	lbs/day	--	--	--	--	--	0.66

5. Attachment E – MRP, Section II. Table 1 on Page E-8

Table 1. Monitoring Station Locations

Influent and Effluent Monitoring Stations		
Discharge Point Name	Monitoring Location Name	Monitoring Location Description (include Latitude and Longitude when available)
001	EFF-001	The effluent sampling station shall be located downstream of any in-plant return well-commingled flows of secondary-treatment wastewater and brine waste produced from the AWPf but before entering the discharge pipe, where representative samples of the effluent can be obtained.

6. Attachment F – Fact Sheet, Section I. Table 1 on Page F-3

Table 1. Facility Information

WDID	4A560105001
Discharger	City of Oxnard
Name of Facility	Oxnard Wastewater Treatment Plant
Facility Address	6001 South Perkins Road
	Oxnard, CA 93033-9047
	Ventura County
Facility Contact, Title and Phone	Mark S. Norris, Assistant Public Works Director, (805) 271-2205
Authorized Person to Sign and Submit Reports	Mark S. Norris, Assistant Public Works Director, (805) 271-2205
Mailing Address	same
Billing Address	same
Type of Facility	POTW
Major or Minor Facility	Major

** See Section VII of this Order and Attachment A for definition of terms.

Threat to Water Quality	1
Complexity	A
Pretreatment Program	Yes
Reclamation Requirements	None
Facility Permitted Flow	31.7 (in million gallons per day)
Facility Design Flow	31.7 (in million gallons per day)
Watershed	Ventura Coastal Stream Watershed Management Area
Receiving Water	Pacific Ocean
Receiving Water Type	Ocean waters

7. Attachment F – Fact Sheet, Section I.C. on Page F-4

- C. The Discharger submitted Report of Waste Discharge, dated January 9, 2007, and applied for an NPDES permit renewal to discharge up to 31.7 MGD of secondary-treated wastewater from the Oxnard Wastewater Treatment Plant, hereinafter Facility.

The City of Oxnard’s Groundwater Enhancement and Treatment Program – Nonpotable Reuse Phase I Project (GREAT Program – Phase I Project), Order No. R4-2008-0083, plans to divert 8 to 9 million gallons per day (MGD) of secondary effluent from the Oxnard Wastewater Treatment Plant (Facility) in order to produce 6.25 MGD of highly purified recycled water for nonpotable reuses. The brine waste produced at the AWPf will be discharged to the Pacific Ocean through the current ocean outfall regulated by Order No. R4-2008-0029. In September 2011, when the AWPf comes on-line, the secondary-treated wastewater from the Facility may be reduced up to 6.25 MGD.

8. Attachment F – Fact Sheet, Section II.A.1. on Page F-4

A. Description of Wastewater and Biosolids Treatment or Controls

- 1. Treated wastewater and brine waste produced from the AWPf are discharged from Discharge Point No. 001 (see Table 2. on cover page) to the Pacific Ocean off Ormond Beach, a water of the United States. Attachment B provides a map of the area around the facility. Attachment C provides a flow schematic of the Facility.

9. Attachment F – Fact Sheet, Section II.B.1. on Page F-5

B. Discharge Points and Receiving Waters

- 1. The treated-secondary wastewater is discharged through an ocean outfall (Discharge Serial No. 001) off Ormond Beach into the Pacific Ocean, a water of the United State. The brine waste produced at the AWPf is expected to begin in

September 2011. The brine waste will also be discharged through Discharge Serial No. 001. The description of the outfall is as follows:

10. Attachment F – Fact Sheet, Section IV.A. on Page F-13

A. Discharge Prohibitions

The Order authorizes the discharge of secondary treated wastewater and brine waste produced at the AWWP through Discharge Serial No. 001. Discharge prohibitions in this Order are based on the requirements in Section III.H of the Ocean Plan (2005).

10. Attachment F – Fact Sheet, Section IV.B.2. Table 8 on Page F-15

Table 8. Summary of Technology-based Effluent Limitations Discharge Point 001

Parameter	Units	Effluent Limitations				
		Average Monthly**	Average Weekly**	Maximum Daily**	Instantaneous Minimum**	Instantaneous Maximum**
BOD ₅ 20°C	mg/L	30	45	--	--	--
	lbs/day ⁵	7,960	11,900	--	--	--
	% removal	85	--	--	--	--
Total Suspended Solids (TSS)	mg/L	30	45	--	--	--
	lbs/day ⁵	7,960	11,900	--	--	--
	% removal	85	--	--	--	--
Oil and Grease	mg/L	25	40	--	--	75
	lbs/day ⁵	6,630	10,600	--	--	19,900
Settleable Solids	mL/L	1.0	1.5	--	--	3.0
Turbidity	NTU	75	100	--	--	225
pH	pH unit	--	--	--	6.0	9.0

5. The mass emission rates are based on the plant design flow rate of 31.7 mgd, and are calculated as follows: Flow(MGD) x Concentration (mg/L) x 8.37 (L-lbs/MG-mg) = lbs/day. However, the Discharger shall report the mass emission rate as “actual concentration in the secondary-treated plus brine waste effluent multiplied by the actual secondary-treated plus brine waste effluent flow and a conversion factor.” During wet-weather storm events in which the flow exceeds the design capacity, the mass discharge rate limitations shall not apply, and concentration limitations will provide the only applicable effluent limitations.

12. Attachment F – Fact Sheet, Section IV.C.5. Table 11 on Page F-20

Table 11. Summary of Water Quality-based Effluent Limitations Discharge Point 001

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Radioactivity						
Gross alpha	PCi/L	--	--	15	--	--
Gross beta	PCi/L	--	--	50	--	--
Combined Radium-226 & Radium-228	PCi/L	--	--	5.0	--	--
Tritium	PCi/L	--	--	20,000	--	--
Strontium-90	PCi/L	--	--	8.0	--	--
Uranium	PCi/L	--	--	20	--	--
Benzidine	µg/L	0.0068	--	--	--	--
	lbs/day ⁶	0.0018	--	--	--	--
Heptachlor epoxide	µg/L	0.002	--	--	--	--
	lbs/day ⁶	0.00053	--	--	--	--
PCBs	µg/L	0.0019	--	--	--	--
	lbs/day ⁶	0.00050	--	--	--	--
TCDD	µg/L	0.00000039	--	--	--	--
	lbs/day ⁶	1.0E-7	--	--	--	--

6. The mass emission rates are based on the plant design flow rate of 31.7 mgd, and are calculated as follows: Flow(MGD) x Concentration (µg/L) x 0.00837 (L·lbs/MG·µg) = lbs/day. During wet-weather storm events in which the flow exceeds the design capacity, the mass discharge rate limitations shall not apply, and concentration limitations will provide the only applicable effluent limitations. However, the Discharger shall report the mass emission rate as “actual concentration in secondary-treated plus brine waste effluent multiplied by actual secondary-treated plus brine waste effluent flow and a conversion factor.”

13. Attachment F – Fact Sheet, Section IV.D.3. Table 12 on Page F-22

Table 12. Summary of Final Effluent Limitations Discharge Point 001

Parameter	Units	Effluent Limitations ⁷				Performance Goal	Basis
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Maximum		
BOD ₅ 20°C	mg/L	30	45	--	--	--	Existing
	lbs/day ⁵	7,960	11,900	--	--		
	% removal	85	--	--	--		
Total Suspended Solids (TSS)	mg/L	30	45	--	--	--	Secondary treatment standard
	lbs/day ⁵	7,960	11,900	--	--		
	% removal	85	--	--	--		
pH	pH unit	6.0 – 9.0				--	Ocean Plan
Oil and Grease	mg/L	25	40	--	75	--	Ocean Plan
	lbs/day ⁵	6,630	10,600	--	19,900		
Settleable Solids	ml/L	1.0	1.5	--	3.0	--	Ocean Plan
Turbidity	NTU	75	100	--	225	--	Ocean Plan
Marine Aquatic Life Toxicants							
Arsenic ⁸	µg/L	--	--	--	--	7.4 ⁹	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	2.0	
Cadmium ⁸	µg/L	--	--	--	--	1 ¹¹	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.27	
Chromium (VI) ⁸	µg/L	--	--	--	--	8 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	2.1	
Copper ⁸	µg/L	--	--	--	--	32 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	8.5	
Lead ⁸	µg/L	--	--	--	--	23 ⁹	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	6.1	

⁷ Effluent limitations should include average monthly, average weekly, maximum, instantaneous minimum, and instantaneous maximum. However, all pollutants and parameters do not have instantaneous minimum, therefore, instantaneous minimum is removed from Table 8. The definitions of average monthly, average weekly, maximum, and instantaneous maximum are available at Attachment A.

⁸ Numeric number for metal represents total recoverable value.

⁹ See Procedures for the determination of performance goals at Section IV.E.1.a. of Fact Sheet.

¹⁰ Effluent data collected between August 2002 and December 2007 showed no reasonable potential to exceed 2005 Ocean Plan's Water Quality Objectives. Therefore, there are no effluent limitations for this pollutant.

¹¹ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of ICPM Method for this pollutant is 0.2 µg/L.

¹² See Procedures for the determination of performance goals at Section IV.E.1.b. of Fact Sheet.

Parameter	Units	Effluent Limitations ¹³				Performance Goal	Basis
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Maximum		
Marine Aquatic Life Toxicants							
Mercury ⁸	µg/L	--	--	--	--	0.3 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.080	
Nickel ⁸	µg/L	--	--	--	--	19 ⁹	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	5.0	
Selenium ⁸	µg/L	--	--	--	--	4.9 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	1.3	
Silver ⁸	µg/L	--	--	--	--	1 ¹¹	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.27	
Zinc ⁸	µg/L	--	--	--	--	38 ¹⁴	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	10	
Cyanide	µg/L	--	--	--	--	25 ¹⁵	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	6.6	
Chlorine Residual	mg/L	--	--	--	--	0.1 ¹²	No RP ¹⁰
	lbs/day ⁵	--	--	--	--	0.027	
Ammonia as N	mg/L	--	--	--	--	26 ¹²	No RP ¹⁰
	lbs/day ⁵	--	--	--	--	6.9	
Phenolic compounds (non-chlorinated)	µg/L	--	--	--	--	5 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	1.3	
Phenolic compounds (chlorinated)	µg/L	--	--	--	--	0.42 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.11	
Endosulfan	µg/L	--	--	--	--	0.05 ¹⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.013	
HCH	µg/L	--	--	--	--	0.1 ¹⁷	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.027	

¹³ Effluent limitations should include average monthly, average weekly, maximum, instantaneous minimum, and instantaneous maximum. However, all pollutants and parameters do not have instantaneous minimum, therefore, instantaneous minimum is removed from Table 8. The definitions of average monthly, average weekly, maximum, and instantaneous maximum are available at Attachment A.

¹⁴ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of ICPM Method for this pollutant is 1 µg/L.

¹⁵ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of Color Method for cyanide is 5 µg/L.

¹⁶ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of GC Method for this pollutant is 0.01 µg/L.

¹⁷ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of GC Method for this pollutant is 0.02 µg/L.

Parameter	Units	Effluent Limitations ¹³				Performance Goal	Basis
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Maximum		
Marine Aquatic Life Toxicants							
Endrin	µg/L	--	--	--	--	0.05 ¹⁸	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.013	
Acute toxicity	Tua	--	--	--	--	--	¹⁹
Chronic toxicity	Tuc	--	--	99	--	18 ⁹	BPJ ²⁰
Radioactivity							
Gross alpha	PCi/L	--	--	15	--	--	BPJ ²¹
Gross beta	PCi/L	--	--	50	--	--	BPJ ²¹
Combined Radium-226 & Radium-228	PCi/L	--	--	5.0	--	--	BPJ ²¹
Tritium	PCi/L	--	--	20,000	--	--	BPJ ²¹
Strontium-90	PCi/L	--	--	8.0	--	--	BPJ ²¹
Uranium	PCi/L	--	--	20	--	--	BPJ ²¹
Human Health Toxicants – Non Carcinogens							
Acrolein	µg/L	--	--	--	--	10 ²²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	2.7	
Antimony ⁸	µg/L	--	--	--	--	2.5 ²³	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
Bis(2-chloroethoxy) methane	µg/L	--	--	--	--	25 ²⁴	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	6.6	
Bis(2-chloroisopropyl) ether	µg/L	--	--	--	--	10 ²⁵	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	2.7	
Chlorobenzene	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	

¹⁸ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of GC Method for this pollutant is 0.01 µg/L.

¹⁹ See Section IV.C.6 of Fact Sheet.

²⁰ All pollutants show no reasonable potential to exceed the 2005 Ocean Plan's water quality objectives. Chronic toxicity of 99 TUc acts as a "backstop", since so many limits have been removed.

²¹ See "determination of radioactivity limitation" in Section IV.C.5 of Fact Sheet.

²² See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of GC Method for this pollutant is 2 µg/L.

²³ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of ICPM Method for antimony is 0.5 µg/L.

²⁴ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of GCMS Method for this pollutant is 5 µg/L.

²⁵ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of GCMS Method for this pollutant is 2 µg/L.

²⁶ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of GC Method for this pollutant is 0.5 µg/L.

Parameter	Units	Effluent Limitations ¹³				Performance Goal	Basis
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Maximum		
Human Health Toxicants – Non Carcinogens							
Chromium (III) ⁸	µg/L	--	--	--	--	8 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	2.1	
Di-n-butyl-phthalate	µg/L	--	--	--	--	0.33 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.088	
Dichlorobenzenes	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
Diethyl phthalate	µg/L	--	--	--	--	0.25 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.066	
Dimethyl phthalate	µg/L	--	--	--	--	10 ²⁵	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	2.7	
2-Methyl-4,6-dinitrophenol	µg/L	--	--	--	--	25 ²⁴	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	6.6	
2,4-Dinitrophenol	µg/L	--	--	--	--	25 ²⁴	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	6.6	
Ethyl benzene	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
Fluoranthene	µg/L	--	--	--	--	0.25 ²⁷	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.066	
Hexachlorocyclopentadiene	µg/L	--	--	--	--	25 ²⁴	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	6.6	
Nitrobenzene	µg/L	--	--	--	--	5 ²⁸	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	1.3	
Thallium ⁸	µg/L	--	--	--	--	5 ²⁹	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	1.3	
Toluene	µg/L	--	--	--	--	0.6 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.16	
Tributyltin	µg/L	--	--	--	--	0.0263 ³⁰	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.007	

²⁷ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of HPLC Method for this pollutant is 0.05 µg/L.

²⁸ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of GCMS Method for this pollutant is 1 µg/L.

²⁹ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of ICPM Method for this pollutant is 1 µg/L.

³⁰ MEC is as performance goal.

Parameter	Units	Effluent Limitations ¹³				Performance Goal	Basis
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Maximum		
Human Health Toxicants – Non Carcinogens							
1,1,1-Trichloroethane	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
Human Health Toxicants – Carcinogens							
Acrylonitrile	µg/L	--	--	--	--	10 ¹⁸	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	2.7	
Aldrin	µg/L	--	--	--	--	0.025 ³¹	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.0066	
Benzene	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
Benzidine ³²	µg/L	0.0068	--	--	--	--	Existing, Carryover
	lbs/day ⁶	0.0018	--	--	--	--	
Beryllium ⁸	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
Bis(2-chloroethyl) ether	µg/L	--	--	--	--	5 ²⁸	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	1.3	
Bis(2-ethylhexyl) phthalate	µg/L	--	--	--	--	2.0 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.53	
Carbon tetrachloride	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
Chlordane	µg/L	--	--	--	--	0.5 ³³	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.13	
Chlorodibromomethane	µg/L	--	--	--	--	1.3 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.34	
Chloroform	µg/L	--	--	--	--	1.4 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.37	
DDT	µg/L	--	--	--	--	0.05 ¹⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.013	

³¹ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of GC Method for this pollutant is 0.005 µg/L.

³² The result of reasonable potential analysis is inconclusive. Therefore, limitations are carried over from the Order No. R4-2002-0129 to prevent backsliding.

³³ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of GC Method for this pollutant is 0.1 µg/L.

Parameter	Units	Effluent Limitations ¹³				Performance Goal	Basis
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Maximum		
Human Health Toxicants –Carcinogens							
1,4-Dichlorobenzene	µg/L	--	--	--	--	3 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.80	
3,3'-Dichlorobenzidine	µg/L	--	--	--	--	25 ²⁴	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	6.6	
1,2-Dichloroethane	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
1,1-Dichloroethylene	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
Bromodichloromethane	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
Dichloromethane	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
1,3-Dichloropropene	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
Dieldrin	µg/L	--	--	--	--	0.05 ³⁴	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.013	
2,4-Dinitrotoluene	µg/L	--	--	--	--	25 ²⁴	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	6.6	
1,2-Diphenylhydrazine	µg/L	--	--	--	--	5 ²⁸	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	1.3	
Halomethanes	µg/L	--	--	--	--	4.4 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	1.2	
Heptachlor	µg/L	--	--	--	--	0.05 ³⁴	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.013	
Heptachlor epoxide ³¹	µg/L	0.002	--	--	--	--	Existing, Carryover
	lbs/day ⁶	0.00053	--	--	--	--	
Hexachlorobenzene	µg/L	--	--	--	--	5 ²⁸	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	1.3	
Hexachlorobutadiene	µg/L	--	--	--	--	5 ²⁸	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	1.3	
Hexachloroethane	µg/L	--	--	--	--	5 ²⁸	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	1.3	

³⁴ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of GC Method for this pollutant is 0.01 µg/L.

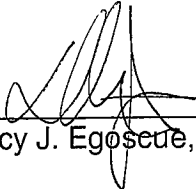
Parameter	Units	Effluent Limitations ¹³				Performance Goal	Basis
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Maximum		
Human Health Toxicants – Carcinogens							
Isophorone	µg/L	--	--	--	--	5 ²⁸	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	1.3	
N-Nitrosodimethylamine	µg/L	--	--	--	--	25 ²⁴	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	6.6	
N-Nitrosodi-N-propylamine	µg/L	--	--	--	--	25 ²⁴	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	6.6	
N-Nitrosodiphenylamine	µg/L	--	--	--	--	5 ²⁸	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	1.3	
PAHs	µg/L	--	--	--	--	0.097 ¹²	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.026	
PCBs ³¹	µg/L	0.0019	--	--	--	--	Existing, Carryover
	lbs/day ⁶	0.00050	--	--	--	--	
TCDD equivalents ³¹	µg/L	0.00000039	--	--	--	--	Existing, Carryover
	lbs/day ⁶	1.0E-7	--	--	--	--	
1,1,2,2-Tetrachloroethane	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
Tetrachloroethylene	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
Toxaphene	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
Trichloroethylene	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
1,1,2-Trichloroethane	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	
2,4,6-Trichlorophenol	µg/L	--	--	--	--	50 ³⁵	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	13	
Vinyl chloride	µg/L	--	--	--	--	2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶	--	--	--	--	0.66	

³⁵ See Procedures for the determination of performance goals at Section IV.E.2. of Fact Sheet. Minimum level of GC or GCMS Method for this pollutant is 10 µg/L.

13. The Expiration date, and all other Limitations, Requirements, and Provisions of Order No. R4-2008-0029 are unchanged and shall remain in full force and effect.

This Order takes effect upon adoption

I, Tracy J. Egoscue, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on March 4, 2010.


Tracy J. Egoscue, Executive Officer *for* *Chief Deputy EO*

/DTSAI/