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.
- 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	Effluent	Discharge Point	Discharge Point	Receiving
Point	Description	Latitude	Longitude	Water
001	Secondary treated wastewater plus brine waste	34º, 07', 24" N	119º,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.
- 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

			Eff	luent Limitat	ions ³		Performance Goals
Parameter	Units	Average Monthly**	Average Weekly**	Maximum Daily**	Instan- taneous Minimum**	Instan- taneous Maximum**	Average Monthly
Major Wastewat	er Constitu	ents					
Biochemical Oxygen	mg/L	30	45				
Demand 5-day @ 20℃	lbs/day	7,960	11,900				
Total Suspended Solids	mg/L	30	45				
Total Suspended Solids	lbs/day	7,960	11,900				
рН	standard units				6.0	9.0	
Oil and Grease	mg/L	25	40			75	
Oli aliu Grease	lbs/day	6,630	10,600			19,900	
Settleable Solids	ml/L	1.0	1.5			3.0	
Turbidity	NTU	75	100			225	

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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.

			Eff	luent Limitat	ions ³		Performance Goals				
Parameter	Units	Average Monthly**	Average Weekly	Maximum Daily	Instan- taneous Minimum ^{**}	Instan- taneous Maximum ^{**}	Average Monthly				
Marine Aquatic	Marine Aquatic Life Toxicants										
Arsenic ⁴	μg/L						7.4				
74301110	lbs/day						2.0				
Cadmium ⁴	μg/L						1				
Oddinium	lbs/day						0.27				
Chromium (VI) ⁴	μg/L		-				8				
Official (VI)	lbs/day		1				2.1				
Copper ⁴	μg/L						32				
Coppei	lbs/day						8.5				
Lead ⁴	μg/L						23				
Leau	lbs/day						6.1				
Mercury ⁴	μg/L						0.3				
Mercury	lbs/day						0.080				
Nickel ⁴	μg/L						19				
Nickei	lbs/day						5.0				
Selenium ⁴	μg/L						4.9				
Seienium	lbs/day						1.3				
Silver ⁴	μg/L						1				
Silver	lbs/day						0.27				
7 :4	μg/L						38 ⁵				
Zinc ⁴	lbs/day						10				
0 - 11	μg/L						25				
Cyanide	lbs/day						6.6				
Oblada Dada al	mg/L						0.1				
Chlorine Residual	lbs/day						0.027				
A	mg/L						26				
Ammonia as N	lbs/day						6.9				
Phenolic compounds	μg/L						5				
(non-chlorinated)**	lbs/day						1.3				
Phenolic compounds	μg/L						0.42				
(chlorinated)**	lbs/day						0.11				
· ·	μg/L						0.05				
Endosulfan**	lbs/day						0.013				

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

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.

			Eff	luent Limitat	ions ³		Performance Goals					
Parameter	Units	Average Monthly**	Average Weekly	Maximum Daily	Instan- taneous Minimum**	Instan- taneous Maximum ^{**}	Average Monthly					
Marine Aquatic	Marine Aquatic Life Toxicants											
HCH**	μg/L						0.1					
поп	lbs/day						0.027					
Endrin	μg/L		-				0.05					
LIIUIIII	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 Carcino	ogens									
Acrolein	μg/L						10					
Acrolein	lbs/day						2.7					
Antimony ³	μg/L						2.5					
Antimorty	lbs/day						0.66					
Bis(2-chloroethoxy)	μg/L		1				25					
methane	lbs/day						6.6					
Bis(2-chloroisopropyl)	μg/L						10					
ether	lbs/day						2.7					
Chlorobenzene	μg/L						2.5					
Chlorobenzene	lbs/day						0.66					
Obversions (III) 3	μg/L						8					
Chromium (III) ³	lbs/day						2.1					
D' a la la la dalla da la la	μg/L						0.33					
Di-n-butyl-phthalate	lbs/day						0.088					
Dialala vala a v	μg/L						2.5					
Dichlorobenzenes	lbs/day						0.66					
District of the	μg/L						0.25					
Diethyl phthalate	lbs/day						0.066					
D: 11 1 1 1 1 1 1 1	μg/L						10					
Dimethyl phthalate	lbs/day						2.7					

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

			Eff	luent Limitat	ions ³		Performance Goals
Parameter	Units	Average Monthly**	Average Weekly**	Maximum Daily**	Instan- taneous Minimum**	Instan- taneous Maximum ^{**}	Average Monthly
Human Health T	oxicants –	Non Carcino	ogens				
2-Methyl-4,6-	μg/L						25
dinitrophenol	lbs/day						6.6
O 4 Dinitranhanal	μg/L						25
2,4-Dinitrophenol	lbs/day						6.6
Ethand have and	μg/L						2.5
Ethyl benzene	lbs/day						0.66
	μg/L						0.25
Fluoranthene	lbs/day						0.066
Hexachlorocyclopentadi	μg/L						25
ene	lbs/day						6.6
NP: 1	μg/L						5
Nitrobenzene	lbs/day						1.3
T 1 111 3	μg/L						5
Thallium ³	lbs/day						1.3
T -	μg/L						0.6
Toluene	lbs/day						0.16
-	μg/L						0.0263
Tributyltin	lbs/day						0.007
	μg/L						2.5
1,1,1-Trichloroethane	lbs/day						0.66
Human Health T	oxicants –	Carcinogen	s				
Acrylonitrile	μg/L						10
Acrylonithie	lbs/day						2.7
Aldrin	μg/L						0.025
Aluliii	lbs/day						0.0066
Benzene	μg/L						2.5
Delizelle	lbs/day						0.66
Benzidine ⁶	μg/L	0.0068					
Deliziulie	lbs/day	0.0018					
Beryllium ³	μg/L						2.5
Deryllium	lbs/day						0.66

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

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

Parameter Units Average Monthly Weekly Maximum Dinstantaneous Dinstantaneo				Eff	luent Limitat	ions ³		Performance Goals				
Bis(2-chloroethyl) ether	Parameter	Units	Average Monthly**	Average Weekly								
Bis(2-ethylhexyl) His/day His/	Human Health Toxicants – Carcinogens											
Bis(day 10	Ris(2-chloroothyl) othor	μg/L						5				
Description of the problem Description	Dis(2-Chiloroethyr) ether	lbs/day		1				1.3				
Carbon tetrachloride μg/L lbs/day 2.5 Chlordane μg/L lbs/day 0.66 Chlorodibromomethane μg/L lbs/day 0.13 Chloroform μg/L lbs/day 0.34 Chloroform μg/L lbs/day 0.34 DDT" lbs/day 0.34 1,4-Dichlorobenzene lbs/day 0.05 1bs/day 0.013 1,4-Dichlorobenzeine μg/L lbs/day 0.05 1bs/day 0.80 1,2-Dichlorobenzeine μg/L lbs/day	Bis(2-ethylhexyl)	μg/L		-				2.0				
Carbon tetrachloride Ibs/day 0.66 Chlorodane μg/L 0.66 Chlorodibromomethane μg/L 0.13 Chloroform μg/L 0.34 Chloroform μg/L 0.34 DDT" μg/L 0.34 Lyg/L 0.34 1,4-Dichlorobenzene μg/L 0.05 1,2-Dichlorobenzidine μg/L 25 1,2-Dichloroethane μg/L 2.5 Ibs/day	phthalate	lbs/day						0.53				
Chlordane μg/L 0.66 1.3 1.4 1.5 1	Carbon totrophlarida	μg/L						2.5				
Dis/day 0.13 Dis/day 1.3 Dis/day 1.3 Dis/day 1.3 Dis/day 1.3 Dis/day 1.4 Dis/day 1.4 Dis/day 1.4 Dis/day 1.4 Dis/day 1.4 Dis/day 1.4 Dis/day 1.4 Dis/day 1.4 Dis/day 1.4 Dis/day 1.4 Dis/day 1.4 Dis/day 1.4 Dis/day 1.3 Dis/day 1.3 Dis/day 1.3 Dis/day 1.3 Dis/day 1.3 Dis/day 1.3 Dis/day 1.3 Dis/day 1.3 Dis/day 1.3 Dis/day 1.3 Dis/day	Carbon tetrachionde	lbs/day						0.66				
Ibs/day 0.13 Chlorodibromomethane Ibs/day 0.34 Chloroform µg/L 0.34 DDT" µg/L 0.37 DDT" µg/L 0.05 1,4-Dichlorobenzene µg/L 0.05 1,4-Dichlorobenzidine µg/L 0.80 1,2-Dichlorobenzidine µg/L 2.5 lbs/day 2.5 1,1-Dichloroethylene µg/L µg/L 2.5 Bromodichloromethane* µg/L 2.5 <td>Oblavelana</td> <td>μg/L</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>0.</u>5</td>	Oblavelana	μg/L						<u>0.</u> 5				
Chlorodibromomethane Ibs/day 0.34	Chiordane	lbs/day						0.13				
Ibs/day 0.34 Ibs/day 1.4 Ibs/day 1.4 Ibs/day 0.37 Ibs/day 0.37 Ibs/day 0.05 Ibs/day 0.05 Ibs/day 0.013 Ibs/day 0.80 Ibs/day 0.80 Ibs/day 0.80 Ibs/day 0.80 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day 0.66 Ibs/day	Oblanadibuanaanatbaaa	μg/L						1.3				
DDT DDT Dbs/day 0.05 Dbs/day 0.05 Dbs/day 0.05 Dbs/day 0.013 Dbs/day 0.013 Dbs/day 0.80 Dbs/day 0.80 Dbs/day 0.80 Dbs/day 0.80 Dbs/day 0.80 Dbs/day 0.80 Dbs/day 0.80 Dbs/day 0.80 Dbs/day 0.80 Dbs/day 0.80 Dbs/day 0.66 Dbs/day 0.66 Dbs/day 0.66 Dbs/day 0.66 Dbs/day 0.66 Dbs/day 0.66 Dbs/day 0.66 Dbs/day 0.05 Dbs/day 0.05 Dbs/day 0.05 Dbs/day 0.05 Dbs/day 0.05 Dbs/day 0.05 Dbs/day	Chiorodibromomethane							0.34				
DDT DDT	Oblancia	μg/L						1.4				
1,4-Dichlorobenzene	Cniorotorm							0.37				
1,4-Dichlorobenzene	DDT**							0.05				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	וטט							0.013				
Ibs/day	4.4.0'	-										
3,3'-Dichlorobenzidine μg/L 6.6 1,2-Dichloroethane μg/L 2.5 1bs/day 0.66 1,1-Dichloroethylene μg/L 0.66 1,1-Dichloromethane μg/L 0.66 1bs/day 0.66 1bs/day 0.66 1,3-Dichloropropene μg/L 0.66 1,3-Dichloropropene μg/L 0.66 1bs/day 0.05 1bs/day 0.013 2,4-Dinitrotoluene μg/L 0.5 1bs/day 0.55 1bs/day 0.55 1bs/day 0.55 1bs/day 0.55 1bs/day	1,4-Dichlorobenzene							0.80				
1,2-Dichloroethane 1bs/day	0.01.01.11	-						25				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3,3°-Dichlorobenzidine							6.6				
1,2-Dichloroethylene Ibs/day	/ 0 D'	-						2.5				
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Ibs/day								2.5				
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Ibs/day 0.66 Dichloromethane	Bromodichloromethane	-										
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	**	-										
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$ \frac{\text{lbs/day}}{\text{Dieldrin}} = \frac{\mu g/L}{\text{lbs/day}} = {} = {} = {} = \frac{0.66}{0.05} $ $ \frac{\mu g/L}{\text{lbs/day}} = {} = {} = {} = \frac{0.05}{0.013} $ $ \frac{\mu g/L}{\text{lbs/day}} = {} = {} = {} = {0.66} $ $ \frac{\mu g/L}{\text{lbs/day}} = {} = {} = {} = {} = \frac{5}{0.66} $	1.3-Dichloropropene	-										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
Ibs/day	Dieldrin	_										
2,4-Dinitrotoluene μg/L 25 bs/day 6.6	0.0											
2,4-Dinitrotoluene		-										
ug/l 5	2,4-Dinitrotoluene											
10 D: 1		-										
1,2-Diphenylhydrazine lbs/day 1.3	1,2-Diphenylhydrazine											

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

			Eff	luent Limitat	ions ³		Performance Goals					
Parameter	Units	Average Monthly**	Average Weekly**	Maximum Daily	Instan- taneous Minimum**	Instan- taneous Maximum**	Average Monthly					
Human Health 1	Human Health Toxicants – Carcinogens											
Halomethanes**	μg/L						4.4					
Halomethanes	lbs/day						1.2					
Heptachlor	μg/L						0.05					
Періастіої	lbs/day						0.013					
Heptachlor epoxide⁵	μg/L	0.002										
пертастног ерохіче	lbs/day	0.00053										
Llovooblorobonzono	μg/L						5					
Hexachlorobenzene	lbs/day						1.3					
Llovooblorobutadiono	μg/L						5					
Hexachlorobutadiene	lbs/day						1.3					
l leve ableve atheres	μg/L						5					
Hexachloroethane	lbs/day						1.3					
la calla cara	μg/L						5					
Isophorone	lbs/day						1.3					
N-	μg/L						25					
Nitrosodimethylamine	lbs/day						6.6					
N-Nitrosodi-N-	μg/L						25					
propylamine	lbs/day						6.6					
N-	μg/L						5					
Nitrosodiphenylamine	lbs/day						1.3					
**	μg/L						0.097					
PAHs**	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-	μg/L						2.5					
Tetrachloroethane	lbs/day						0.66					
Tetrachloroethylene	μg/L						2.5					
, , , , ,	lbs/day						0.66					
Toxaphene	μg/L						2.5					
T	lbs/day						0.66					
	μg/L						2.5					
Trichloroethylene	lbs/day						0.66					

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

			Performance Goals				
Parameter	Units	Average Monthly**	Average Weekly**	Maximum Daily**	Instan- taneous Minimum**	Instan- taneous Maximum**	Average Monthly
Human Health T	oxicants –	Carcinogen	S				
1,1,2-Trichloroethane	μg/L						2.5
1,1,2-THORIOTOETHANE	lbs/day						0.66
2,4,6-Trichlorophenol	μg/L						50
2,4,0-THCHIOTOPHEHOI	lbs/day						13
Vinyl chloride	μg/L						2.5
virryi cilionae	lbs/day						0.66

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

Table 1. Monitoring Station Locations

Table II membering etation = coations							
Influent and Efflu	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

Table 1. Facility inform	ilation
WDID	4A560105001
Discharger	City of Oxnard
Name of Facility	Oxnard Wastewater Treatment Plant
	6001 South Perkins Road
Facility Address	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	None
Requirements	
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

- 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

 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 AWPF 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

		Effluent Limitations						
Parameter	Units	Average Monthly**	Average Weekly**	Maximum Daily ^{**}	Instantaneous Minimum**	Instantaneous Maximum**		
	mg/L	30	45					
BOD₅20°C	lbs/day ⁵	7,960	11,900					
	% removal	85						
Total Overser de d	mg/L	30	45					
Total Suspended Solids (TSS)	lbs/day ⁵	7,960	11,900					
001103 (100)	% removal	85						
Oil and Grease	mg/L	25	40			75		
Oli and Grease	lbs/day ⁵	6,630	10,600			19,900		
Settleable Solids	mL/L	1.0	1.5			3.0		
Turbidity	NTU	75	100			225		
рН	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

Table 11. Summary		Effluent Limitations								
Parameter	Units	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								
Delizidille	lbs/day ⁶	0.0018								
Heptachlor epoxide	μg/L	0.002								
rieptacilioi epoxide	lbs/day ⁶	0.00053	-							
PCBs	μg/L	0.0019								
FODS	lbs/day ⁶	0.00050								
TCDD	μg/L	0.00000039								
ICDD	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 (μ g/L) x 0.00837 (L·lbs/MG· μ g) = 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

			Effluen	Performance			
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Maximum	Goal	Basis
	mg/L	30	45				
BOD₅20°C	lbs/day ⁵	7,960	11,900				Existing
	% removal	85					
T	mg/L	30	45				Secondary
Total Suspended Solids (TSS)	lbs/day ⁵	7,960	11,900				treatment
(100)	% removal	85					standard
рН	pH unit		(6.0 – 9.0			Ocean Plan
Oil and Grease	mg/L	25	40		75		Ocean Plan
Oil and Grease	lbs/day ⁵	6,630	10,600		19,900		Ocean Plan
Settleable Solids	ml/L	1.0	1.5		3.0		Ocean Plan
Turbidity	NTU	75	100		225		Ocean Plan
Marine Aquatic Life Tox	icants						
Arsenic ⁸	μg/L					7.4 ⁹	No RP ¹⁰
Alsellic	lbs/day ⁶					2.0	NO AF
Cadmium ⁸	μg/L					1 ¹¹	No RP ¹⁰
Caumum	lbs/day ⁶					0.27	NO RP
Chromium (VI) 8	μg/L					8 ¹²	No RP ¹⁰
Chromium (VI) ⁸	lbs/day ⁶					2.1	NO RP
Copper ⁸	μg/L					32 ¹²	No RP ¹⁰
	lbs/day ⁶					8.5	INO RE
Lead ⁸	μg/L					23 ⁹	No RP ¹⁰
Leau	lbs/day ⁶					6.1	INO RE

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.

Numeric number for metal represents total recoverable value.

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

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.

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 $0.2 \mu g/L$.

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

Parameter			Effluen	Danfarmana			
	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Maximum	Performance Goal	Basis
Marine Aquatic Life To	xicants						
Mercury ⁸	μg/L					0.3 ¹²	No RP ¹⁰
ivier cury	lbs/day ⁶					0.080	NO HE
Nickel ⁸	μg/L					19 ⁹	No RP ¹⁰
INICKEI	lbs/day ⁶					5.0	NO DE
Selenium ⁸	μg/L					4.9 ¹²	No RP ¹⁰
Selenium	lbs/day ⁶					1.3	NO RP
Silver ⁸	μg/L					1 ¹¹	No RP ¹⁰
Silver	lbs/day ⁶					0.27	No RP
Zinc ⁸	μg/L					38 ¹⁴	No RP ¹⁰
ZINC	lbs/day ⁶					10	
Ovenide	μg/L					25 ¹⁵	No RP ¹⁰
Cyanide	lbs/day ⁶					6.6	
Oblavina Dacidual	mg/L					0.1 ¹²	No RP ¹⁰
Chlorine Residual	lbs/day ⁵					0.027	NO RP
Ammonio oo N	mg/L					26 ¹²	Na DD10
Ammonia as N	lbs/day ⁵					6.9	No RP ¹⁰
Phenolic compounds	μg/L					5 ¹²	N- DD ¹⁰
(non-chlorinated)	lbs/day ⁶					1.3	No RP ¹⁰
Phenolic compounds	μg/L					0.42 ¹²	No RP ¹⁰
(chlorinated)	lbs/day ⁶					0.11	NO RP
Endoulfon	μg/L					0.05 ¹⁶	Na DD ¹⁰
Endosulfan	lbs/day ⁶					0.013	No RP ¹⁰
	μg/L					0.1 ¹⁷	N 5510
HCH	lbs/day ⁶					0.027	No RP ¹⁰

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.

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.

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.

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.

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 $0.02 \mu g/L$.

			Effluen	Performance			
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Maximum	Goal	Basis
Marine Aquatic Life To	kicants						
Endrin	μg/L					0.05 ¹⁸	No RP ¹⁰
Enann	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 Toxicant	ts – Non Car	cinogens					
Acrolein	μg/L					10 ²²	No RP ¹⁰
Acrolein	lbs/day ⁶					2.7	NO NE
Antimony ⁸	μg/L					2.5 ²³	No RP ¹⁰
Antimony	lbs/day ⁶					0.66	NO NE
Bis(2-chloroethoxy)	μg/L					25 ²⁴	No RP ¹⁰
methane	lbs/day ⁶					6.6	INU IT
Bis(2-chloroisopropyl)	μg/L					10 ²⁵	No RP ¹⁰
ether	lbs/day ⁶					2.7	NU NF
Chlorobenzene	μg/L					2.5 ²⁶	No RP ¹⁰
GHIOLODELIZELIE	lbs/day ⁶					0.66	NO ME

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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 $0.01~\mu g/L$.

¹⁹ See Section IV.C.6 of Fact Sheet.

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.

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

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 $2 \mu g/L$.

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.

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 $5 \mu g/L$.

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.

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			Effluen	Dowfowmonoo			
	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Maximum	Performance Goal	Basis
Human Health Toxicants	s – Non Car	cinogens					
Chromium (III) 8	μg/L					8 ¹²	No RP ¹⁰
Chromium (m)	lbs/day ⁶					2.1	NO RP
Di-n-butyl-phthalate	μg/L					0.33 ¹²	No RP ¹⁰
Di-II-butyi-piitiiaiate	lbs/day ⁶					0.088	NO NE
Diablarahanzanaa	μg/L					2.5 ²⁶	No RP ¹⁰
Dichlorobenzenes	lbs/day ⁶					0.66	NO RP
Diethyl phthelete	μg/L					0.25 ¹²	No RP ¹⁰
Diethyl phthalate	lbs/day ⁶					0.066	NO RP
Discretional schedules	μg/L					10 ²⁵	No RP ¹⁰
Dimethyl phthalate	lbs/day ⁶					2.7	NO RP
2-Methyl-4,6-	μg/L					25 ²⁴	No RP ¹⁰
dinitrophenol	lbs/day ⁶					6.6	
O. A. Dinituanhanal	μg/L					25 ²⁴	No RP ¹⁰
2,4-Dinitrophenol	lbs/day ⁶					6.6	NO RP
Ethad because	μg/L					2.5 ²⁶	No RP ¹⁰
Ethyl benzene	lbs/day ⁶					0.66	NO RP
	μg/L					0.25 ²⁷	No RP ¹⁰
Fluoranthene	lbs/day ⁶					0.066	No RP
Hexachlorocyclopentadi	μg/L					25 ²⁴	No RP ¹⁰
ene	lbs/day ⁶					6.6	NO RP
NUmala	μg/L					5 ²⁸	No RP ¹⁰
Nitrobenzene	lbs/day ⁶					1.3	NO RP
TI II: 8	μg/L					5 ²⁹	N- DD10
Thallium ⁸	lbs/day ⁶					1.3	No RP ¹⁰
Talvana	μg/L					0.6 ¹²	No RP ¹⁰
Toluene	lbs/day ⁶					0.16	NO RP
Tuile at altie	μg/L					0.0263 ³⁰	No RP ¹⁰
Tributyltin	lbs/day ⁶					0.007	NO KP

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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 $0.05 \, \mu g/L$.

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.

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 μ g/L.

MEC is as performance goal.

Parameter			Effluen	t Limitations	13	Performance	
	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Maximum	Goal	Basis
Human Health Toxicant	s – Non Car	cinogens					
1 1 1 Trichlerecthere	μg/L					2.5 ²⁶	No RP ¹⁰
1,1,1-Trichloroethane	lbs/day ⁶					0.66	NO RP
Human Health Toxicant	s – Carcino	gens					
A am da mitrilla	μg/L					10 ¹⁸	No RP ¹⁰
Acrylonitrile	lbs/day ⁶					2.7	NO RP
	μg/L					0.025 ³¹	
Aldrin	lbs/day ⁶					0.0066	No RP ¹⁰
D	μg/L					2.5 ²⁶	No RP ¹⁰
Benzene	lbs/day ⁶					0.66	
Benzidine ³²	μg/L	0.0068					Existing, Carryover
Benziaine.	lbs/day ⁶	0.0018					
Beryllium ⁸	μg/L					2.5 ²⁶	No RP ¹⁰
Derymum	lbs/day ⁶					0.66	NO NE
Bis(2-chloroethyl) ether	μg/L					5 ²⁸	No RP ¹⁰
Dis(2-Chioroethyr) ether	lbs/day ⁶					1.3	INO I II
Bis(2-ethylhexyl)	μg/L					2.0 ¹²	No RP ¹⁰
phthalate	lbs/day ⁶					0.53	140 111
Carbon tetrachloride	μg/L					2.5 ²⁶	No RP ¹⁰
	lbs/day ⁶					0.66	140 111
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	1.0 1.0
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	

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 $0.005 \mu g/L$.

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

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			Effluen	Performance			
	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Maximum	Goal	Basis
Human Health Toxicant	s –Carcinog	jens					
1.4 Diablevahannana	μg/L					3 ¹²	No RP ¹⁰
1,4-Dichlorobenzene	lbs/day ⁶					0.80	NO RP
3,3'-Dichlorobenzidine	μg/L					25 ²⁴	No RP ¹⁰
3,3 -Dichiorobenzianie	lbs/day ⁶					6.6	NO DE
1.2 Dichloroothono	μg/L					2.5 ²⁶	No RP ¹⁰
1,2-Dichloroethane	lbs/day ⁶					0.66	NO RP
1 1 Diablara athulana	μg/L					2.5 ²⁶	No RP ¹⁰
1,1-Dichloroethylene	lbs/day ⁶					0.66	NO RP
Dua wa a dia la la va wa a tha a a a	μg/L					2.5 ²⁶	No RP ¹⁰
Bromodichloromethane	lbs/day ⁶					0.66	No RP
Diable were at the area	μg/L					2.5 ²⁶	N - DD10
Dichloromethane	lbs/day ⁶					0.66	No RP ¹⁰
4 0 D' 11	μg/L					2.5 ²⁶	N 5510
1,3-Dichloropropene	lbs/day ⁶					0.66	No RP ¹⁰
D: 11:	μg/L					0.05^{34}	N - DD10
Dieldrin	lbs/day ⁶					0.013	No RP ¹⁰
O.A.Disitable and	μg/L					25 ²⁴	N DD10
2,4-Dinitrotoluene	lbs/day ⁶					6.6	No RP ¹⁰
4 0 D'	μg/L					5 ²⁸	N DD10
1,2-Diphenylhydrazine	lbs/day ⁶					1.3	No RP ¹⁰
	μg/L					4.4 ¹²	N DD10
Halomethanes	lbs/day ⁶					1.2	No RP ¹⁰
	μg/L					0.05 ³⁴	N DD10
Heptachlor	lbs/day ⁶					0.013	No RP ¹⁰
	μg/L	0.002					Existing,
Heptachlor epoxide ³¹	lbs/day ⁶	0.00053					Carryover
	μg/L					5 ²⁸	N 5510
Hexachlorobenzene	lbs/day ⁶					1.3	No RP ¹⁰
	μg/L					5 ²⁸	N 5510
Hexachlorobutadiene	lbs/day ⁶					1.3	No RP ¹⁰
	μg/L					5 ²⁸	==10
Hexachloroethane	lbs/day ⁶					1.3	No RP ¹⁰

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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 $0.01 \mu g/L$.

Parameter			- ·				
	Units	Average Monthly	Average Weekly	t Limitations Maximum Daily	Instantaneous Maximum	Performance Goal	Basis
Human Health Toxicants	s – Carcino	gens					
Isophorone	μg/L					5 ²⁸	No RP ¹⁰
isophorone	lbs/day ⁶					1.3	INO I II
N-Nitrosodimethylamine	μg/L					25 ²⁴	No RP ¹⁰
N-Millosouimethylamine	lbs/day ⁶					6.6	NO HE
N-Nitrosodi-N-	μg/L					25 ²⁴	No RP ¹⁰
propylamine	lbs/day ⁶					6.6	INO I II
N-Nitrosodiphenylamine	μg/L					5 ²⁸	No RP ¹⁰
in-initrosodiprierryiariline	lbs/day ⁶					1.3	NO HE
PAHs	μg/L					0.097 ¹²	No RP ¹⁰
rans	lbs/day ⁶					0.026	NO RP
PCBs ³¹	μg/L	0.0019					Existing, Carryover
PODS	lbs/day ⁶	0.00050					
TCDD equivalents ³¹	μg/L	0.00000039					Existing,
TODD equivalents	lbs/day ⁶	1.0E-7					Carryover
1,1,2,2-	μg/L					2.5 ²⁶	No RP ¹⁰
Tetrachloroethane	lbs/day ⁶					0.66	NO RP
Tatrachlaraethylana	μg/L					2.5 ²⁶	No RP ¹⁰
Tetrachloroethylene	lbs/day ⁶					0.66	NO RP
Tayanhana	μg/L					2.5 ²⁶	No RP ¹⁰
Toxaphene	lbs/day ⁶					0.66	NO RP
Trichlereethylene	μg/L					2.5 ²⁶	No RP ¹⁰
Trichloroethylene	lbs/day ⁶					0.66	NO RP
1 1 2 Triphlaroothana	μg/L					2.5 ²⁶	No RP ¹⁰
1,1,2-Trichloroethane	lbs/day ⁶					0.66	NO RP
2,4,6-Trichlorophenol	μg/L					50 ³⁵	No DD ¹⁰
2,4,0-Trichiorophenoi	lbs/day ⁶					13	No RP ¹⁰
Vinyl oblorido	μg/L					2.5 ²⁶	No RP ¹⁰
Vinyl chloride	lbs/day ⁶					0.66	NO RP

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.

City of Oxnard Oxnard Wastewater Treatment Plant Order No. R4-2010-0048 Amending Order No. R4-2008-0029

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

/DTSAI/