

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

TIME SCHEDULE ORDER NO. R4-2008-0012

**DIRECTING
THE CITY OF SAN BUENAVENTURA TO
COMPLY WITH THE REQUIREMENTS PRESCRIBED IN
ORDER NO. R4-2008-0011
(Ventura Water Reclamation Facility)
(NPDES PERMIT NO. CA0053651)**

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

1. The City of San Buenaventura (City or Discharger) owns and operates the Ventura Water Reclamation Facility (Facility) located at 1400 Spinnaker Drive, Ventura. The Facility discharges tertiary treated wastewater to the Santa Clara River Estuary (Estuary), a water of the United States within the Santa Clara River Watershed, under Waste Discharge Requirements contained in Order No. R4-2008-0011, adopted by this Regional Board on March 6, 2008. Order No. R4-2008-0011 also serves as a permit under the National Pollutant Discharge Elimination System (NPDES Permit No. CA0053651).
2. The treatment system consists of screenings grit removal, primary sedimentation, flow equalization, activated sludge nitrification and partial denitrification (NDN), tertiary filters, ammonia addition, chlorination and dechlorination, primary sludge thickener, dissolved air flotation (DAF) secondary sludge thickener, anaerobic digestion, and dewatering (using plate and frame filter presses).

The Facility currently does not have a full NDN process (full nitrification and partial denitrification). The effluent data between February 2003 and December 2006 did show that the high effluent nitrate concentration (10.1 – 18.6 mg/L, average: 14.6 mg/L) and very low effluent nitrite concentration (always less than 0.4 mg/L, which is the detection limit). In the future, once the full NDN is on line, the effluent nitrate concentration shall be further reduced.

3. An NPDES Order No. R4-2008-0011, adopted on March 6, 2008, prescribes the following effluent limitations for ammonia nitrogen, nitrite plus nitration nitrogen, and nitrite nitrogen:

Attachment N
 Ventura Water Reclamation Facility
 Reasonable Potential Analyses and Limit Derivations
 (CA0053651, CI-1822)

CTR#	Pollutant	MEC	CTR		MEC>C	RPA	CV	ECA multiplier acute
			WQC=C	Lowest C				
6	Copper (Cu)	17	5.6953488	5.695348837	YES	YES (MEC > C)	0.6611176	0.295423269
8	Mercury (Hg)	0.7	0.051	0.051	YES	YES (MEC > C)	0.6	0.321083214
11	Silver (Ag)	9.3	2.24	2.24	YES	YES (MEC > C)	2.2634816	0.108058655
13	Zinc (Zn)	161.9	96.428571	96.42857143	YES	YES (MEC > C)	0.8890099	0.226752767

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CTR#	Pollutant	ECA multiplier chronic	Water Quality-Based Effluent Limitation		
			ECAacute	ECACHRONICLE	LTAacute=ECA*ECAacute
6	Copper (Cu)	0.497985653	8.81860465	5.695348837	2.605221013
8	Mercury (Hg)	0.527433444	NA	NA	NA
11	Silver (Ag)	0.182713241	2.23529412	NA	0.241542876
13	Zinc (Zn)	0.407577017	107	96.42857143	24.29493934

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CTR#	Pollutant					
		LT _A chronic=ECA*EC _A chronic	LT _A lowest	AMEL multiplier	MDEL multiplier	AMEL _a quatic
6	Copper (Cu)	2.836202011	2.60522101	1.612657851	3.384973716	4.20133012
8	Mercury (Hg)	NA	NA	1.552424614	3.114457427	NA
11	Silver (Ag)	NA	0.24154288	2.948981578	9.254233269	0.712305491
13	Zinc (Zn)	39.30206954	24.2949393	1.837407203	4.41008951	44.63969655

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 (CA0053651, CI-1822)

CTR#	Pollutant	Human Health			Numerical Limitation	
		MDELaquatic	AMELhh=ECA	MDELhh	Monthly Average	Daily Maximum
6	Copper (Cu)	8.818604651	NA	NA	4.20133012	8.818604651
8	Mercury (Hg)	NA	0.051	0.102315647	0.051	0.102315647
11	Silver (Ag)	2.235294118	NA	NA	0.712305491	2.235294118
13	Zinc (Zn)	107.1428571	NA	NA	44.63969655	107.1428571

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(CA0053651, CI-1822)

CTR#	Pollutant	Recommendation
6	Copper (Cu)	Need Limit. Based on SW Aq Life
8	Mercury (Hg)	Need Limit. Based on Human Health Organisms only
11	Silver (Ag)	Need Limit. Based on SW Aq Life
13	Zinc (Zn)	Need Limit. Based on SW Aq Life

Attachment M
 Ventura Water Reclamation Facility
 Projections of Winter Ammonia Concentrations in Receiving Water
 (CA0056251, CI-1822)

Date	Station	Temp ¹	pH ²	Salinity	I	pKas	1-hour EPA Objective (expressed as total ammonia)
Jan-03	R1	18.6	7.85	4.6	0.0920914	9.2556826	9.794826025
Jan-03	R2						
Jan-03	R3	16.4	7.9175	16.1	0.3261067	9.2828284	10.50057054
Jan-03	R4	17.1	7.8625	9.6	0.1931659	9.2674072	10.90795923
Jan-03	L5	17	7.95	4.9	0.098127	9.2563827	8.804992101
Feb-03	R1	18.2	7.8875	7.4	0.148567	9.2622338	9.406862163
Feb-03	R2	18	7.9025	20.5	0.417104	9.2933841	9.897571265
Feb-03	R3	15.9	7.9075	25.5	0.5215127	9.3054955	11.72339712
Feb-03	R4	16.4	7.9375	10.1	0.2033299	9.2685863	9.722112252
Feb-03	L5	17.1	8.0275	6.9	0.1384586	9.2610612	7.427823998
Mar-03	R1	18.5	7.67	5.2	0.1041664	9.2570833	14.86088676
Mar-03	R2	18.7	7.7375	16.2	0.3281657	9.2830672	13.33040968
Mar-03	R3	17	7.7675	17.4	0.352907	9.2859372	14.20106455
Mar-03	R4	17.2	7.785	7.9	0.1586857	9.2634075	12.78250125
Mar-03	L5	17.4	7.815	7.5	0.1505899	9.2624684	11.74649723
Apr-03	R1	18.4	7.9	2.7	0.0539501	9.2512582	8.795420473
Apr-03	R2	18.2	7.93	10.3	0.2073983	9.2690582	8.683387771
Apr-03	R3	16	7.965	11.4	0.2298044	9.2716573	9.47480556
Apr-03	R4	16.5	7.93	3.4	0.0679852	9.2528863	9.475416786
Apr-03	L5	16.9	7.9825	3.6	0.0719988	9.2533519	8.190761789
Nov-03	R1	13.8	7.8233333	2.2	0.0439372	9.2500967	14.59265497
Nov-03	R2	13.7	7.9266667	8.7	0.1748969	9.265288	12.04278643
Nov-03	R3	13.9	7.9133333	12.8	0.2583938	9.2749737	12.50120193
Nov-03	R4	15	8.0866667	11.2	0.2257268	9.2711843	7.749534624
Nov-03	L5	12.6	8.1633333	6.9	0.1384586	9.2610612	7.594886121
Dec-03	R1	13.1	8.6075	5	0.1001398	9.2566162	2.757510533
Dec-03	R2	11.8	8.5	7.5	0.1505899	9.2624684	3.84418777
Dec-03	R3	11.6	8.5575	5.4	0.1081947	9.2575506	3.40777038
Dec-03	R4	11.4	8.645	5.2	0.1041664	9.2570833	2.86463191
Dec-03	L5	12.1	8.6975	5.4	0.1081947	9.2575506	2.448705645
Jan-04	R1	12.6	8.2575	2.5	0.0499437	9.2507935	6.021348939
Jan-04	R2						
Jan-04	R3	12.6	8.065	9.6	0.1931659	9.2674072	9.601465871
Jan-04	R4	11.7	8.175	6.7	0.1344181	9.2605925	7.889216214
Jan-04	L5	11.9	8.28	3	0.0599627	9.2519557	6.03927044
Feb-04	R1	12.9	7.6375	1.4	0.0279375	9.2482408	23.69050569
Feb-04	R2	11.4	7.8475	2.5	0.0499437	9.2507935	16.50478948
Feb-04	R3	11.7	7.83	2.2	0.0439372	9.2500967	16.77234878
Feb-04	R4	11.9	7.885	1.9	0.0379343	9.2494004	14.56616058
Feb-04	L5	13.6	7.645	1	0.0199473	9.2473139	22.06907688
Mar-04	R1	16.5	7.705	1	0.0199473	9.2473139	15.55139148
Mar-04	R2	16.9	7.7475	2.2	0.0439372	9.2500967	13.80162347
Mar-04	R3	16.1	7.8975	6.2	0.124324	9.2594216	10.65092088
Mar-04	R4	15.8	7.8375	3.9	0.0780223	9.2540506	12.31476008
Mar-04	L5	16.7	7.81	1.3	0.0259394	9.248009	12.10238293
Apr-04	R1	19.5	9.3266667	0.6	0.0119636	9.2463878	0.525024246

Attachment M
 Ventura Water Reclamation Facility
 Projections of Winter Ammonia Concentrations in Receiving Water
 (CA0056251, CI-1822)

Date	Station	Temp ¹	pH ²	Salinity	I	pKas	1-hour EPA Objective (expressed as total ammonia)
Apr-04	R2	19.7	8.5525	1.3	0.0259394	9.248009	1.949827546
Apr-04	R3	18.5	8.4575	2.4	0.0479412	9.2505612	2.583495713
Apr-04	R4	18.7	8.61	1.3	0.0259394	9.248009	1.853418374
Apr-04	L5	19.9	9.0075	0.9	0.0179508	9.2470823	0.824997539
Nov-04	R1	14.6	9.265	4.8	0.0961147	9.2561493	0.72914604
Nov-04	R2	14.8	8.906	2.3	0.045939	9.2503289	1.335323437
Nov-04	R3	14.3	8.63	3.7	0.0740062	9.2535847	2.409532178
Nov-04	R4	15.5	8.292	2	0.0399349	9.2496324	4.52769389
Nov-04	L5	15.5	8.768	3.6	0.0719988	9.2533519	1.680610183
Dec-04	R1	16	9.063	4.9	0.098127	9.2563827	0.944457438
Dec-04	R2	17.6	8.510	4.5	0.0900803	9.2554493	2.485724289
Dec-04	R3	12.2	8.440	8.6	0.172869	9.2650528	4.281314487
Dec-04	R4	13.1	8.523	3.5	0.0699918	9.253119	3.278650191
Dec-04	L5	13.5	8.338	3.3	0.0659789	9.2526536	4.75420635
Jan-05	R1	14.8	7.693	0.9	0.0179508	9.2470823	18.08673477
Jan-05	R2	11.2	8.035	4.1	0.08204	9.2545166	11.050791
Jan-05	R3	11.6	8.095	6.2	0.124324	9.2594216	9.481756052
Jan-05	R4	14.9	7.855	1.8	0.0359342	9.2491684	12.50480455
Jan-05	L5	11.6	8.040	0.7	0.0139589	9.2466192	10.425506
Feb-05	R1	11.4	8.070	0.5	0.0099687	9.2461564	9.877910607
Feb-05	R2	11.6	8.073	4.7	0.0941029	9.2559159	9.895236662
Feb-05	R3	12.5	7.945	7.2	0.1445224	9.2617646	12.51490921
Feb-05	R4	16	7.818	1.5	0.0299361	9.2484726	12.53773048
Feb-05	L5	11.6	7.988	0.3	0.00598	9.2456937	11.71071453
Mar-05	R1	15	7.73	0.8	0.0159547	9.2468507	16.38962927
Mar-05	R2	13.7	7.936	1.2	0.0239416	9.2477772	11.33491509
Mar-05	R3	14.2	8.082	2.2	0.0439372	9.2500967	7.915757702
Mar-05	R4	14.6	7.956	1.2	0.0239416	9.2477772	10.14673826
Mar-05	L5	13.6	8.272	0.4	0.0079741	9.245925	5.37090087
Apr-05	R1	15.5	7.9	1.4	0.0279375	9.2482408	10.79000002
Apr-05	R2	12.7	8.0633333	8.1	0.162736	9.2638774	9.492024302
Apr-05	R3	14.3	8.23	8.9	0.1789538	9.2657586	5.855623581
Apr-05	R4	13.9	8.3366667	2.9	0.0579581	9.2517231	4.620297094
Apr-05	L5	15	8.18	3.1	0.0619677	9.2521883	6.036477069
P = 1 atm							
Maxi		19.9					23.69050569
Mini		11.2					0.525024246

Attachment M
 Ventura Water Reclamation Facility
 Projections of Winter Ammonia Concentrations in Receiving Water
 (CA0056251, CI-1822)

4-day EPA Objective (expressed as total ammonia)
1.471325798
1.577338922
1.638534648
1.322638298
1.413047964
1.486759632
1.761025318
1.460403128
1.115767553
2.232322045
2.002422055
2.133207122
1.920118213
1.764495293
1.3212005
1.304371554
1.423254054
1.423345869
1.230371942
2.192029716
1.809002253
1.877862951
1.164093184
1.140862722
0.41421832
0.577453099
0.511896838
0.430309514
0.36783132
0.904494476
1.442280281
1.185075397
0.907186547
3.558659654
2.479260223
2.519451533
2.188049873
3.315097385
2.33604593
2.073205242
1.599923737
1.849856664
1.817954517
0.078866303

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4-day EPA Objective (expressed as total ammonia)
0.29289255
0.388078755
0.278410485
0.123926669
0.109528375
0.200585066
0.361946894
0.680125692
0.252452173
0.141871289
0.373392061
0.64311591
0.492501102
0.714151168
2.71689149
1.659990064
1.424298119
1.878404118
1.566063133
1.483806314
1.486408941
1.879921985
1.883350072
1.759120208
2.461961479
1.702669649
1.189062316
1.52418815
0.806787684
1.620815453
1.42584056
0.879600109
0.694036044
0.906766942
3.558659654
0.078866303

Attachment M
Ventura Water Reclamation Facility
Projections of Summer Ammonia Concentrations in Receiving Water
(CA0056251, CI-1822)

Date	Station	Temp ¹	pH ²	Salinity	I	pKas	1-hour EPA Objective (expressed as total ammonia)
May-03	R1	18.9	7.79	2.9	0.0579581	9.2517231	10.87103056
May-03	R2	18.7	7.74	10.7	0.2155402	9.2700027	12.86932684
May-03	R3	17.1	7.7966667	15.9	0.3219899	9.2823508	13.09010329
May-03	R4	18.6	7.74	2.2	0.0439372	9.2500967	12.39359868
May-03	L5	18.3	7.9333333	4.3	0.0860593	9.2549829	8.291012476
Jun-03	R1	21.1	7.8033333	1.7	0.0339344	9.2489364	8.931814821
Jun-03	R2	20.9	7.84	7.8	0.1566611	9.2631727	8.61813034
Jun-03	R3	18.4	7.87	15	0.303485	9.2802043	10.0401451
Jun-03	R4	18.5	7.9333333	4.3	0.0860593	9.2549829	8.171671617
Jun-03	L5	19.1	7.91	3.2	0.0639731	9.2524209	8.196039638
Jul-03	R1	20.5	8.538	2.2	0.0439372	9.2500967	1.913327887
Jul-03	R2	20.5	8.63	10	0.2012962	9.2683504	1.650906791
Jul-03	R3	20.6	8.674	8.1	0.162736	9.2638774	1.491735987
Jul-03	R4	20.6	8.67	3.8	0.0760141	9.2538176	1.474294702
Jul-03	L5	20.4	8.63	3.7	0.0740062	9.2535847	1.613772373
Aug-03	R1	22.2	8.2675	2.3	0.045939	9.2503289	2.993866623
Aug-03	R2	21.1	8.305	8.9	0.1789538	9.2657586	3.081496366
Aug-03	R3	20.1	8.325	8.4	0.1688146	9.2645825	3.156075315
Aug-03	R4	20.7	8.3225	2.6	0.0519467	9.2510258	2.957852778
Aug-03	L5	20.7	8.345	2.6	0.0519467	9.2510258	2.820277683
Sep-03	R1	18.2	8.165	3.5	0.0699918	9.253119	4.974737199
Sep-03	R2	18.1	7.86	9.1	0.1830124	9.2662294	10.17074655
Sep-03	R3	18.8	7.646	10.3	0.2073983	9.2690582	15.77247511
Sep-03	R4	21.9	7.426	1.8	0.0359342	9.2491684	19.78112054
Sep-03	L5	19.8	7.558	1.9	0.0379343	9.2494004	17.11321743
Oct-03	R1	18.7	9.04	4.2	0.0840495	9.2547497	0.844459827
Oct-03	R2	18.7	8.88	4.4	0.0880696	9.2552161	1.117777897
Oct-03	R3	19.2	8.81	4.2	0.0840495	9.2547497	1.233386185
Oct-03	R4	19.3	8.52	5	0.1001398	9.2566162	2.177438046
Oct-03	L5	19.9	8.7833333	4.4	0.0880696	9.2552161	1.243695538
May-04	R1	20.3	8.6475	1.7	0.0339344	9.2489364	1.554946271
May-04	R2	18.6	8.65	5.8	0.1162561	9.2584857	1.758260219
May-04	R3	20.1	8.6375	5.1	0.1021529	9.2568497	1.631322172
May-04	R4	21.9	8.595	1.2	0.0239416	9.2477772	1.55342542
May-04	L5	21.5	8.6425	2.7	0.0539501	9.2512582	1.46229199
Jun-04	R1	21.1	8.545	3.8	0.0760141	9.2538176	1.827684091
Jun-04	R2	19.4	8.690	5.9	0.1182724	9.2587196	1.544165318
Jun-04	R3	20.3	8.645	6.3	0.126342	9.2596557	1.595803021
Jun-04	R4	21.5	8.625	3.2	0.0639731	9.2524209	1.516269049
Jun-04	L5	21.4	8.4625	3.6	0.0719988	9.2533519	2.116600281
Jul-04	R1	22.3	9.765	2.4	0.0479412	9.2505612	0.320204246
Jul-04	R2	21.6	9.895	2.7	0.0539501	9.2512582	0.301220517
Jul-04	R3	22.8	9.813	2.3	0.045939	9.2503289	0.308267093
Jul-04	R4	23.1	9.855	2.3	0.045939	9.2503289	0.299739815
Jul-04	L5	23.5	9.713	2.6	0.0519467	9.2510258	0.323078617
Aug-04	R1	20.9	9.615	2.9	0.0579581	9.2517231	0.370107201

Attachment M
Ventura Water Reclamation Facility
Projections of Summer Ammonia Concentrations in Receiving Water
(CA0056251, CI-1822)

Date	Station	Temp ¹	pH ²	Salinity	I	pKas	1-hour EPA Objective (expressed as total ammonia)
Aug-04	R2	21.5	8.640	2.5	0.0499437	9.2507935	1.468066416
Aug-04	R3	22.6	8.556	3.4	0.0679852	9.2528863	1.620211214
Aug-04	R4	23	8.616	2.1	0.0419358	9.2498646	1.397556816
Aug-04	L5	22.9	8.716	2.9	0.0579581	9.2517231	1.168964359
Sep-04	R1	22.2	9.805	2.2	0.0439372	9.2500967	0.313041132
Sep-04	R2	21.2	9.113	2.4	0.0479412	9.2505612	0.657467871
Sep-04	R3	21.9	9.070	5	0.1001398	9.2566162	0.684390961
Sep-04	R4	23.4	9.230	3.2	0.0639731	9.2524209	0.509539273
Sep-04	L5	22.4	9.153	4.9	0.098127	9.2563827	0.591744964
Oct-04	R1	18.7	8.910	4.1	0.08204	9.2545166	1.057394018
Oct-04	R2	18	8.380	8.3	0.166788	9.2643474	3.24355067
Oct-04	R3	17.9	8.305	9.7	0.1951979	9.267643	3.86529856
Oct-04	R4	20.2	8.260	1.9	0.0379343	9.2494004	3.487002206
Oct-04	L5	18	8.320	2.9	0.0579581	9.2517231	3.590543694
May-05	R1	16	7.89	1.3	0.0259394	9.248009	10.63479974
May-05	R2	16.6	7.5933333	11.1	0.2236887	9.2709479	20.99521927
May-05	R3	16.6	7.9733333	14.1	0.2850142	9.2780616	9.0310724
May-05	R4	17.3	8.0466667	2.9	0.0579581	9.2517231	6.870970994
May-05	L5	15.4	8.3366667	1.3	0.0259394	9.248009	4.122395615
Jun-05	R1	22.6	7.950	2	0.0399349	9.2496324	5.790618855
Jun-05	R2	17	8.070	16.4	0.332285	9.2835451	7.155199133
Jun-05	R3	18.1	8.095	22.2	0.4524825	9.297488	6.449507369
Jun-05	R4	21.2	8.320	2.8	0.0559539	9.2514907	2.876063731
Jun-05	L5						
Jul-05	R1						
Jul-05	R2	20.7	8.400	16	0.3240481	9.2825896	2.684358313
Jul-05	R3	20.3	8.865	19.8	0.4025722	9.2916984	1.117047884
Jul-05	R4	20.9	8.135	1.2	0.0239416	9.2477772	4.336121293
Jul-05	L5						
Aug-05	R1						
Aug-05	R2	21.4	7.7	8.6	0.172869	9.2650528	11.43226949
Aug-05	R3	21.1	8.04	11.7	0.2359238	9.2723672	5.556830166
Aug-05	R4	18.2	7.68	3.3	0.0659789	9.2526536	14.70311528
Aug-05	L5						
Sep-05	R1	18.6	8.2166667	2.9	0.0579581	9.2517231	4.306002841
Sep-05	R2	19.5	8.9066667	5.3	0.1061803	9.2573169	1.020676796
Sep-05	R3	19.4	8.98	6.4	0.1283604	9.2598898	0.907260408
Sep-05	R4	20.3	8.4366667	4.9	0.098127	9.2563827	2.41821154
Sep-05	L5	20.9	7.6333333	1.4	0.0279375	9.2482408	13.27200782
P = 1 atm							
Maxi		23.5	9.895	22.2			20.99521927
Mini		15.4	7.426	1.2			0.299739815

Attachment M
Ventura Water Reclamation Facility
Projections of Summer Ammonia Concentrations in Receiving Water
(CA0056251, CI-1822)

4-day EPA Objective (expressed as total ammonia)
1.632987423
1.933160684
1.966324528
1.861699373
1.245431059
1.341688922
1.294568935
1.508176302
1.22750432
1.231164753
0.287409768
0.247990291
0.224080513
0.221460578
0.242412159
0.449722454
0.46288572
0.474088567
0.444312649
0.423646862
0.74727812
1.527794546
2.369255918
2.971412956
2.570654979
0.126850189
0.167906551
0.185272603
0.327082968
0.186821218
0.23357562
0.264116342
0.245048395
0.233347166
0.219657595
0.27454482
0.231956164
0.2397129
0.227765737
0.317944248
0.04809935
0.045247717
0.046306216
0.045025294
0.048531123
0.055595502

Attachment M
 Ventura Water Reclamation Facility
 Projections of Summer Ammonia Concentrations in Receiving Water
 (CA0056251, CI-1822)

4-day EPA Objective (expressed as total ammonia)
0.220524998
0.243379367
0.209933427
0.175595505
0.047023346
0.098761268
0.102805509
0.076540234
0.088888728
0.158836011
0.487228641
0.580624247
0.523798615
0.539352057
1.597502106
3.153788302
1.356598858
1.032120106
0.619243976
0.86983545
1.07481532
0.96881012
0.432026741
0.40322979
0.167796892
0.651348692
1.717293701
0.834716978
2.208622467
0.646824461
0.153320549
0.136283752
0.363250661
1.993649244
3.153788302
0.045025294

Attachment L
Ventura Water Reclamation Facility
Non-priority Pollutants Effluent RPA
(CA0053651, CI-1822)

CONSTITUENT	REASONABLE POTENTIAL											
	Units	Number of Samples	Maximum Observed Effluent Concentration*	CV	Multiplier	Projected Maximum Effluent Concentration (99/99)	Dilution Ratio	Background Concentration	Projected Maximum Receiving Water Result	Water Quality Objectives	BU - Beneficial use protection NC-Human noncarcinogen AP-Aquatic life protection	REASONABLE POTENTIAL
Ammonia Nitrogen	mg/L	47	3.600	0.577753	1.72	6.18	0		6.18	0.045	AP	YES
Nitrate + Nitrite as Nitrogen	mg/L	47	18.8	0.164874	1.18	22.17	0		22.17	10	BU	YES
Nitrite Nitrogen	mg/L	47	0.215	0.010922	1.01	0.22	0		0.22	1	BU	NO
Nitrate Nitrogen	mg/L	47	18.6	0.167173	1.18	21.98	0		21.98	10	BU	YES
MBAS	mg/L	46	0.85	0.962725	2.28	1.94	0		1.94	0.5	BU	YES
Oil and Grease	mg/L	47	2	0.534381	1.66	3.31	0		3.31	10	BU	NO
Acute Toxicity (Single Test)	TUa	4	100	0	1.00	100.00	0		100.00	100	AP	NO
Chronic Toxicity (Ceriodaphnia Survival)	TUc	10	1	0	1.00	1.00	0		1.00	1	AP	NO
Chronic Toxicity (Ceriodaphnia Reproduction)	TUc	10	1.1	0.231529	1.58	1.73	0		1.73	1	AP	YES
Chronic Toxicity (Fathead Survival)	TUc	9	1	0	1.00	1.00	0		1.00	1	AP	NO
Chronic Toxicity (Fathead Growth)	TUc	9	1	0	1.00	1.00	0		1.00	1	AP	NO
Chronic Toxicity (Selenastrum Growth)	TUc	47	5.56	0.571014	1.71	9.49	0		9.49	1	AP	YES

Attachment K
Ventura Water Reclamation Facility
Non-priority Pollutants Effluent Data
(CA0053651, CI-1822)

	Ammonia NH3 as N (mg/L)	Nitrate NO3 as N (mg/L)	Nitrite NO2 as N (mg/L)	1/2 Nitrite NO2 as N if non detected (mg/L)	NO2 + NO3 as N (mg/L)	MBAS (mg/L)	1/2 MBAS if non detected (mg/L)	Oil & Grease (mg/L)
Jan-03	0.3	13.3	<0.4	0.2	13.5	0.10	0.10	0.2
Feb-03	0.7	11.5	<0.4	0.2	11.7	0.08	0.08	0.3
Mar-03	0.6	13.6	<0.4	0.2	13.8	0.17	0.17	0.6
Apr-03	0.6	11.5	<0.4	0.2	11.7	0.15	0.15	0.7
May-03	0.5	13.7	<0.4	0.2	13.9	0.19	0.19	0.6
Jun-03	0.4	13.4	<0.4	0.2	13.6	0.09	0.09	0.3
Jul-03	0.4	12.7	<0.4	0.2	12.9	0.13	0.13	0.5
Aug-03	0.5	12.7	<0.4	0.2	12.9	0.09	0.09	0.5
Sep-03	0.7	16.1	<0.4	0.2	16.3	0.10	0.10	1.7
Oct-03	0.6	15.7	<0.4	0.2	15.9	0.13	0.13	2.0
Nov-03	0.6	17.2	<0.4	0.2	17.4	0.10	0.10	2.0
Dec-03	0.7	15.6	<0.4	0.2	15.8	0.14	0.14	1.4
Jan-04	0.6	17.2	<0.4	0.2	17.4	0.17	0.17	1.2
Feb-04	2.8	13.5	<0.4	0.2	13.7	0.18	0.18	0.9
Mar-04	0.5	15.4	<0.4	0.2	15.6	0.12	0.12	1.1
Apr-04	1.7	12.5	<0.4	0.2	12.7	0.14	0.14	1.1
May-04	1.3	12.0	<0.4	0.2	12.2	0.11	0.11	1.1
Jun-04	1.3	13.2	<0.4	0.2	13.4	0.10	0.10	0.1
Jul-04	1.2	14.3	<0.4	0.2	14.5	0.85	0.85	0.8
Aug-04	1.2	13.8	<0.4	0.2	14.0	0.09	0.09	1.4
Sep-04	1.2	15.4	<0.4	0.2	15.6	0.11	0.11	1.3
Oct-04	1.9	16.2	<0.4	0.2	16.4	0.06	0.06	1.4
Nov-04	3.6	17.8	<0.4	0.2	18.0	0.09	0.09	1.4
Dec-04	1.9	15.5	<0.4	0.2	15.7	0.10	0.10	1.8
Jan-05	1.6	15.8	<0.4	0.2	16.0	0.09	0.09	1.3
Feb-05	1.6	17.2	<0.4	0.2	17.4	0.13	0.13	1.3
Mar-05	1.5	16.9	<0.4	0.2	17.1	0.11	0.11	0.3
Apr-05	1.4	14.2	<0.4	0.2	14.4	0.08	0.08	0.6
May-05	0.8	10.6	<0.4	0.2	10.8	0.09	0.09	0.6
Jun-05	0.8	11.0	<0.4	0.2	11.2	0.06	0.06	0.9
Jul-05	0.9	17.6	<0.4	0.2	17.8	0.06	0.06	1.1
Aug-05	1.1	16.0	<0.4	0.2	16.2			0.8
Sep-05	1.2	15.8	<0.4	0.2	16.0	<0.05	0.025	0.8
Oct-05	1.1	17.6	<0.4	0.2	17.8	0.06	0.06	1.1
Nov-05	1.6	18.6	<0.4	0.2	18.8	0.06	0.06	1.2

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Attachment K
Ventura Water Reclamation Facility
Non-priority Pollutants Effluent Data
(CA0053651, CI-1822)

	Ammonia NH3 as N (mg/L)	Nitrate NO3 as N (mg/L)	Nitrite NO2 as N (mg/L)	1/2 Nitrite NO2 as N if non detected (mg/L)	NO2 + NO3 as N (mg/L)	MBAS (mg/L)	1/2 MBAS if non detected (mg/L)	Oil & Grease (mg/L)
Dec-05	1.9	18.0	<0.4	0.2	18.2	0.18	0.18	1.0
Jan-06	1.8	18.0	<0.4	0.2	18.225	0.07	0.07	<1.0
Feb-06	1.6	17.7	<0.4	0.2	17.85	0.13	0.13	<1.0
Mar-06	2.3	13.6	<0.4	0.2	13.825	0.07	0.07	<1.0
Apr-06	3.3	10.4	<0.43	0.2	10.585	0.09	0.09	<1.0
May-06	2.9	10.6	<0.4	0.2	10.78	<0.5	0.25	<1.0
Jun-06	2.1	10.1	<0.4	0.2	10.25	<0.1	0.05	
Jul-06	1.8	15.4	<0.4	0.2	15.575	<0.1	0.05	<1.0
Aug-06	0.9	12.1	<0.4	0.2	12.275	<0.1	0.05	<1.0
Sep-06	1.5	12.1	<0.4	0.2	12.325	0.20	0.20	<1.0
Oct-06	1.2	15.4	<0.4	0.2	15.6	0.13	0.13	0.1
Nov-06	1.3	15.7	<0.4	0.2	15.9	0.27	0.3	1.0
Dec-06	1.5	18.2	<0.4	0.2	18.4	0.06	0.1	<1.0
Jan-07								
Feb-07								
Mar-07								
Apr-07								
May-07	1.7	14.1	<0.66	0.5	14.62	<0.5	0.3	<1.0
Jun-07	2.0	16.2	<0.4	0.2	16.35	<0.5	0.3	<1.9
Jul-07	2.0	15.7	<0.4	0.2	15.85	<0.5	0.3	4.0
Aug-07	1.8	11.1	<0.4	0.2	11.26	0.22	0.2	1.8
Sep-07								
Oct-07								
Nov-07								
Dec-07								
Max	3.6	18.6	0	0.2	18.8		0.9	
Min								
# of Data Points	52	52		52	52		51	
SD	0.739151881	2.392014357		0.04161373	2.390672714		0.119005767	
Avg	1.4	14.6		0.2	14.8		0.1	
CV	0.543378777	0.163824732		0.201951837	0.161454318		0.876432363	

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Attachment K
Ventura Water Reclamation Facility
Non-priority Pollutants Effluent Data
(CA0053651, CI-1822)

	1/2 O&G if non detected	Acute Toxicity (Single Survival)	Chronic Toxicity (Ceriodaphnia) (Survival)	Chronic Toxicity (Ceriodaphnia) (Reproduction)	Chronic Toxicity (Fathead Larvae) (Survival)	Chronic Toxicity (Fathead Larvae) (Growth)	Chronic Toxicity (Selenastrum) (Growth)
	(mg/L)	(TUa: %)	(TUc)	(TUc)	(TUc)	(TUc)	(TUc)
Jan-03	0.2	100	1.0	1.0	1.0	1.0	1.00
Feb-03	0.3						1.00
Mar-03	0.6						1.00
Apr-03	0.7						1.00
May-03	0.6						1.00
Jun-03	0.3						1.00
Jul-03	0.5						1.00
Aug-03	0.5						1.00
Sep-03	1.7						1.00
Oct-03	2.0						1.79
Nov-03	2.0						1.00
Dec-03	1.4		1.0	1.0	1.0	1.0	1.79
Jan-04	1.2	100	1.0	1.0	1.0	1.0	1.00
Feb-04	0.9						1.00
Mar-04	1.1						1.00
Apr-04	1.1						1.00
May-04	1.1						1.00
Jun-04	0.1						2.00
Jul-04	0.8						1.79
Aug-04	1.4						1.79
Sep-04	1.3						1.00
Oct-04	1.4						2.00
Nov-04	1.4						1.00
Dec-04	1.8		1.0	1.0	1.0	1.0	1.00
Jan-05	1.3		1.0	1.0	1.0	1.0	1.00
Feb-05	1.3	100	1.0	1.0	1.0	1.0	1.00
Mar-05	0.3						1.79
Apr-05	0.6						2.00
May-05	0.6						1.79
Jun-05	0.9						1.00
Jul-05	1.1						1.79
Aug-05	0.8						1.00
Sep-05	0.8						1.00
Oct-05	1.1						1.00
Nov-05	1.2						1.00

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Attachment K
Ventura Water Reclamation Facility
Non-priority Pollutants Effluent Data
(CA0053651, CI-1822)

	1/2 O&G if non detected (mg/L)	Acute Toxicity (Single Survival) (TUa: %)	Chronic Toxicity (Ceriodaphnia) (Survival) (TUc)	Chronic Toxicity (Ceriodaphnia) (Reproduction) (TUc)	Chronic Toxicity (Fathead Larvae) (Survival) (TUc)	Chronic Toxicity (Fathead Larvae) (Growth) (TUc)	Chronic Toxicity (Selenastrum) (Growth) (TUc)
Dec-05	1.0		1.0	1.0	1.0	1.0	1.00
Jan-06	0.5	100	1.0	1.0	1	1	1.00
Feb-06	0.5						5.56
Mar-06	0.5		1.0	1.8			1.00
Apr-06	0.5						1.00
May-06	0.5						1.00
Jun-06	1.1		1.0	1.0			1.00
Jul-06	0.5						1.00
Aug-06	0.5						1.00
Sep-06	0.5						1.00
Oct-06	1.7						1.00
Nov-06	1.0				1	1	1.00
Dec-06	0.5				1	1	1.00
Jan-07							
Feb-07							
Mar-07							
Apr-07							
May-07	0.5						1.00
Jun-07	1.7						1.00
Jul-07	4.0						1.00
Aug-07	1.8	100					1.00
Sep-07							
Oct-07							
Nov-07							
Dec-07							
Max	2.0	100.0	1.0	1.8	1.0	1.0	5.6
Min							
# of Data Points	52	5	10	10	10	10	52
SD	0.649948738	0	0	0.249819935	TRUE	0	0.698277211
Avg	1.0	100.0	1.0	1.1	1.0	1.0	1.3
CV	0.654416388	0	0	0.231529134	1	0	0.557849362

04/06/2007

ATTACHMENT I

BIOSOLIDS USE AND DISPOSAL REQUIREMENTS

1. All biosolids generated by the Discharger shall be reused or disposed of in compliance with the applicable portions of:
 - a. 40 CFR 503: for biosolids that are land applied, placed in surface disposal sites (dedicated land disposal sites or monofills), or incinerated; 40 CFR 503 Subpart B (land application) applies to biosolids placed on the land for the purpose of providing nutrients or conditioning the soil for crops or vegetation. 40 CFR 503 Subpart C (surface disposal) applies to biosolids placed on the land for the purpose of disposal.
 - b. 40 CFR 258: for biosolids disposed of in Municipal Solid Waste landfills.
 - c. 40 CFR 257: for all biosolids disposal practices not covered under 40 CFR 258 or 503.
2. The Discharger is responsible for assuring that all biosolids from its facility are used or disposed of in accordance with 40 CFR 503, whether the Discharger reuses or disposes of the biosolids itself or transfers them to another party for further treatment, reuse, or disposal. The Discharger is responsible for informing subsequent preparers, applicers, or disposers of the requirements they must meet under 40 CFR 503.
3. Duty to mitigate: The Discharger shall take all reasonable steps to prevent or minimize any biosolids use or disposal which may adversely impact human health or the environment.
4. No biosolids shall be allowed to enter wetland or other waters of the United States.
5. Biosolids treatment, storage, and use or disposal shall not contaminate groundwater.
6. Biosolids treatment, storage, and use or disposal shall not create a nuisance such as objectionable odors or flies.
7. The Discharger shall assure that haulers who transport biosolids off site for further treatment, storage, reuse, or disposal take all necessary measures to keep the biosolids contained.
8. If biosolids are stored for over two years from the time they are generated, the Discharger must ensure compliance with all the requirements for surface disposal under 40 CFR 503 Subpart C, or must submit a written request to EPA with the information in 503.20 (b), requesting permission for longer temporary storage.

9. Sewage sludge containing more than 50 mg/kg PCB's shall be disposed of in accordance with 40 CFR 761.
10. Any off-site biosolids treatment, storage, use or disposal site operated by the Discharger within Region 4 (Los Angeles Region of RWQCB) that is not subject to its own Waste Discharge Requirements shall have facilities adequate to divert surface runoff from the adjacent area, to protect the site boundaries from erosion, and to prevent any conditions that would cause drainage from the materials in the disposal site to escape from the site. Adequate protection is defined as protected from at least a 100-year storm and from the highest tidal stage that may occur.
11. Inspection and Entry: The Regional Board, USEPA or an authorized representative thereof, upon the presentation of credentials, shall be allowed by the Discharger, directly or through contractual arrangements with their biosolids management contractors, to:
 - a. enter upon all premises where biosolids are produced by the Discharger and all premises where Discharger biosolids are further treated, stored, used, or disposed, either by the Discharger or by another party to whom the Discharger transfers the biosolids for further treatment, storage, use, or disposal;
 - b. have access to and copy any records that must be kept under the conditions of this permit or of 40 CFR 503, by the Discharger or by another party to whom the Discharger transfers the biosolids for further treatment, storage, use, or disposal; and
 - c. inspect any facilities, equipment (including monitoring and control equipment), practices, or operations used in the production of biosolids and further treatment, storage, use, or disposal by the Discharger or by another party to whom the Discharger transfers the biosolids for further treatment, storage, use, or disposal.
12. Monitoring shall be conducted as follows:
 - a. Biosolids shall be tested for the metals required in section 503.16 (for land application) or 503.26 (for surface disposal), using the methods in "Test Methods for Evaluating Solids Waste, Physical/Chemical Methods" (SW-:846), as required in 503.8(b){4}, at the following minimum frequencies:

<u>Volume (dry metric tons/year)</u>	<u>Frequency</u>
0 – 290	once per year
290 – 1500	once per quarter
1500 – 15000	once per 60 days
> 15000	once per month

For accumulated, previously untested biosolids, the Discharge~ shall develop a

representative sampling plan, which addresses the number and location of sampling points, and collect representative samples.

Test results shall be expressed in mg pollutant per kg biosolids on a 100% dry weight basis.

Biosolids to be land applied shall be tested for Organic-N, ammonium-N, and nitrate-N at the frequencies required above.

- b. Prior to land application, the Discharger shall demonstrate that the biosolids meet Class A or Class B pathogen reduction levels by one of the methods listed in 503.32. Prior to disposal in a surface disposal site, the Discharger shall demonstrate that the biosolids meet Class B levels or shall ensure that the site is covered at the end of each operating day.
 - c. For biosolids that are land applied or placed in a surface disposal site, the Discharger shall track and keep records of the operational parameters used to achieve Vector Attraction Reduction requirements in 503.33 (b).
 - d. Class 1 facilities (facilities with pretreatment programs or others designated as Class 1 by the Regional Administrator) and Federal facilities with > 5 mgd influent flow shall sample biosolids for pollutants listed under Section 307 (a) of the Act (as required in the pretreatment section of the permit for POTWs with pretreatment programs.) Class 1 facilities and Federal Facilities with > 5 mgd influent flow shall test dioxins/dibenzofurans using a detection limit of < 1 pg/g during their next sampling period if they have not done so within the past 5 years and once per 5 years thereafter.
 - e. The biosolids shall be tested annually, or more frequently if necessary to determine hazardousness in accordance with California Law.
 - f. If biosolids are placed in a surface disposal site (dedicated land disposal site or monofill), a qualified groundwater scientist shall develop a groundwater monitoring program for the site, or shall certify that the placement of biosolids on the site will not contaminate an aquifer.
 - g. Biosolids placed in a municipal landfill shall be tested semi-annually by the Paint Filter Test (SW-846, Method 9095) to demonstrate that there are no free liquids.
13. The Discharger either directly or through contractual arrangements with their biosolids management contractors shall comply with the following 40 CFR 503 notification requirements:
- a. A reuse/disposal plan shall be submitted to EPA Region IX Coordinator and, in the absence of other state or regional reporting requirements, to the state permitting

agency, prior to the use or disposal of any biosolids from this facility to a new or previously unreported site. The plan shall be submitted by the land applier of the biosolids and shall include, a description and a topographic map of the proposed site(s) for reuse or disposal, names and addresses of the applier(s) and site owner(s), and a list of any state or local permits which must be obtained. For land application sites, the plan shall include a description of the crops or vegetation to be grown, proposed nitrogen loadings to be used for the crops, and a groundwater monitoring plan if one exists.

- b. If the Discharger biosolids do not meet 503.13 Table 3 metals concentration limits, the Discharger must require their land applier to contact the state permitting authority to determine whether bulk biosolids subject to the cumulative pollutant loading rates in 503.12(b)(2) have been applied to the site since July 20, 1993, and, if so, the cumulative amount of pollutants applied to date, and background concentration, if known. The Discharger shall then notify EPA Region IX Coordinator of this information.
 - c. For biosolids that are land applied, the Discharger shall notify the applier in writing of the nitrogen content of the biosolids, and the applier's requirements under 503, including the requirements that the applier certify that the requirement to obtain information in Subpart A, and that the management practices, site restrictions, and any applicable vector attraction reduction requirements Subpart D have been met. The Discharger shall require the applier to certify at the end of 38 months following application of Class B biosolids that those harvesting restrictions in effect for up to 38 months have been met.
 - d. If bulk biosolids are shipped to another State or to Indian Lands, the Discharger must send written notice prior to the initial application of bulk biosolids to the permitting authorities in the receiving State or Indian Land (the EPA Regional Office for the area and the State/Indian authorities).
 - e. Notification of 503 non-compliance: The Discharger shall require appliers of their biosolids to notify EPA Region 9 and their state permitting agency of any noncompliance within 24 hours if the non-compliance may seriously endanger health or the environment. For other instances of non-compliance, the Discharger shall require appliers of their biosolids to notify EPA Region 9 and their state permitting agency of the non-compliance in writing within 10 working days of becoming aware of the non-compliance.
14. The Discharger shall submit an annual biosolids report to EPA Region IX Biosolids Coordinator and the Los Angeles Regional Water Quality Control Board by February 19 of each year for the period covering the previous calendar year. The report shall include:
- a. The amount of biosolids generated that year, in dry metric tons, and the amount

accumulated from previous years.

- b. Results of all pollutant monitoring required in the Monitoring Section above.
 - c. Descriptions of pathogen reduction methods, and vector attraction reduction methods, as required in 503.17 and 503.27.
 - d. Results of any groundwater monitoring or certification by groundwater scientist that the placement of biosolids in a surface disposal site will not contaminate an aquifer.
 - e. Names and addresses of land appliers and surface disposal site operators, and volumes applied (dry metric tons).
 - f. Names and addresses of persons who received biosolids for storage, further treatment, disposal in a municipal waste landfill, or for other reuse/disposal methods not covered in 14.c, above, and volumes delivered to each.
15. The Discharger shall require all parties contracted to manage their biosolids to submit an annual biosolids report to EPA Region IX Biosolids Coordinator by February 19 of each year for the period covering the previous calendar year. The report shall include:
- a. Names and addresses of land appliers and surface disposal site operators, name, location (latitude/longitude), and size (hectares) of site(s), volumes applied/disposed (dry metric tons) and for land application, biosolids loading rates (metric tons per hectare), nitrogen loading rates (kg/ha), dates of applications, crops grown, dates of seeding and harvesting and certifications that the requirement to obtain information in 503.12(e)(2), management practices in 503.14 and site restrictions in 503.32(b)(5) have been met.

ATTACHMENT G – GENERIC TOXICITY REDUCTION EVALUATION (TRE) WORKPLAN (POTW)

1. Information and Data Acquisition

a. Operations and performance review

- i. NPDES permit requirements
 - (1) Effluent limitations
 - (2) Special conditions
 - (3) Monitoring data and compliance history
- ii. POTW design criteria
 - (1) Hydraulic loading capacities
 - (2) Pollutant loading capacities
 - (3) Biodegradation kinetics calculations/assumptions
- iii. Influent and effluent conventional pollutant data
 - (1) Biochemical oxygen demand (BOD₅)
 - (2) Chemical oxygen demand (COD)
 - (3) Suspended solids (SS)
 - (4) Ammonia
 - (5) Residual chlorine
 - (6) pH
- iv. Process control data
 - (1) Primary sedimentation - hydraulic loading capacity and BOD and SS removal
 - (2) Activated sludge - Food-to-microorganism (F/M) ratio, mean cell residence time (MCRT), mixed liquor suspended solids (MLSS), sludge yield, and BOD and COD removal
 - (3) Secondary clarification - hydraulic and solids loading capacity, sludge volume index and sludge blanket depth
- v. Operations information
 - (1) Operating logs
 - (2) Standard operating procedures
 - (3) Operations and maintenance practices
- vi. Process sidestream characterization data
 - (1) Sludge processing sidestreams
 - (2) Tertiary filter backwash
 - (3) Cooling water
- vii. Combined sewer overflow (CSO) bypass data
 - (1) Frequency
 - (2) Volume
- viii. Chemical coagulant usage for wastewater treatment and sludge processing
 - (1) Polymer
 - (2) Ferric chloride
 - (3) Alum

- b. POTW influent and effluent characterization data**
 - i. Toxicity
 - ii. Priority pollutants
 - iii. Hazardous pollutants
 - iv. SARA 313 pollutants,
 - v. Other chemical-specific monitoring results
- c. Sewage residuals (raw, digested, thickened and dewatered sludge and incinerator ash) characterization data**
 - i. EP toxicity
 - ii. Toxicity Characteristic Leaching Procedure (TCLP)
 - iii. Chemical analysis
- d. Industrial waste survey (IWS)**
 - i. Information on IUs with categorical standards or local limits and other significant non-categorical IUs
 - ii. Number of IUs
 - iii. Discharge flow
 - iv. Standard Industrial Classification (SIC) code
 - v. Wastewater flow
 - (1) Types and concentrations of pollutants in the discharge
 - (2) Products manufactured
 - vi. Description of pretreatment facilities and operating practices
 - vii. Annual pretreatment report
 - viii. Schematic of sewer collection system
 - ix. POTW monitoring data
 - (1) Discharge characterization data
 - (2) Spill prevention and control procedures
 - (3) Hazardous waste generation
 - x. IU self-monitoring data
 - (1) Description of operations
 - (2) Flow measurements
 - (3) Discharge characterization data
 - (4) Notice of sludge loading
 - (5) Compliance schedule (if out of compliance)
 - xi. Technically based local limits compliance reports
 - xii. Waste hauler monitoring data manifests
 - xiii. Evidence of POTW treatment interferences (i.e., biological process inhibition)

ATTACHMENT H – STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS

SECTION A: STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS¹

1. Implementation Schedule

A storm water pollution prevention plan (SWPPP) shall be developed and implemented for each facility covered by this General Permit in accordance with the following schedule.

- a. Facility operators beginning industrial activities before October 1, 1992 shall develop and implement the SWPPP no later than October 1, 1992. Facility operators beginning industrial activities after October 1, 1992 shall develop and implement the SWPPP when industrial activities begin.
- b. Existing facility operators that submitted a Notice of Intent (NOI), pursuant to State Water Resources Control Board (State Water Board) Order No. 91-013-DWQ (as amended by Order No. 92-12) or San Francisco Bay Regional Water Quality Control Board (Regional Water Board) Order No. 92-11 (as amended by Order No. 92-116), shall continue to implement their existing SWPPP and shall implement any necessary revisions to their SWPPP in a timely manner, but in no case later than August 1, 1997.

2. Objectives

The SWPPP has two major objectives: (a) to identify and evaluate sources of pollutants associated with industrial activities that may affect the quality of storm water discharges and authorized non-storm water discharges from the facility; and (b) to identify and implement site-specific best management practices (BMPs) to reduce or prevent pollutants associated with industrial activities in storm water discharges and authorized non-storm water discharges. BMPs may include a variety of pollution prevention measures or other low-cost and pollution control measures. They are generally categorized as non-structural BMPs (activity schedules, prohibitions of practices, maintenance procedures, and other low-cost measures) and as structural BMPs (treatment measures, run-off controls, over-head coverage.) To achieve these objectives, facility operators should consider the five phase process for SWPPP development and implementation as shown in Table A.

The SWPPP requirements are designed to be sufficiently flexible to meet the needs of various facilities. SWPPP requirements that are not applicable to a facility should not be included in the SWPPP.

A facility's SWPPP is a written document that shall contain a compliance activity schedule, a description of industrial activities and pollutant sources, descriptions of BMPs, drawings, maps, and relevant copies or references of parts of other plans. The SWPPP

¹ From State Water Board's Water Quality Order No. 97-03-DWQ (NPDES General Permit No. CAS000001), Waste Discharge Requirements for Discharges of Storm Water Associated with Industrial Activities Excluding Construction Activities.

shall be revised whenever appropriate and shall be readily available for review by facility employees or Regional Water Board inspectors.

3. Planning and Organization

a. Pollution Prevention Team

The SWPPP shall identify a specific individual or individuals and their positions within the facility organization as members of a storm water pollution prevention team responsible for developing the SWPPP, assisting the facility manager in SWPPP implementation and revision, and conducting all monitoring program activities required in Section B of this General Permit. The SWPPP shall clearly identify the General Permit related responsibilities, duties, and activities of each team member. For small facilities, storm water pollution prevention teams may consist of one individual where appropriate.

b. Review Other Requirements and Existing Facility Plans

The SWPPP may incorporate or reference the appropriate elements of other regulatory requirements. Facility operators should review all local, State, and Federal requirements that impact, complement, or are consistent with the requirements of this General Permit. Facility operators should identify any existing facility plans that contain storm water pollutant control measures or relate to the requirements of this General Permit. As examples, facility operators whose facilities are subject to Federal Spill Prevention Control and Countermeasures' requirements should already have instituted a plan to control spills of certain hazardous materials. Similarly, facility operators whose facilities are subject to air quality related permits and regulations may already have evaluated industrial activities that generate dust or particulates.

4. Site Map

The SWPPP shall include a site map. The site map shall be provided on an 8-½ x 11 inch or larger sheet and include notes, legends, and other data as appropriate to ensure that the site map is clear and understandable. If necessary, facility operators may provide the required information on multiple site maps.

**TABLE A
FIVE PHASES FOR DEVELOPING AND IMPLEMENTING INDUSTRIAL
STORM WATER POLLUTION PREVENTION PLANS**

PLANNING AND ORGANIZATION

Form Pollution Prevention Team
Review other plans

ASSESSMENT PHASE

Develop a site map
Identify potential pollutant sources
Inventory of materials and chemicals
List significant spills and leaks
Identify non-storm water discharges
Assess pollutant Risks

BEST MANAGEMENT PRACTICES IDENTIFICATION PHASE

Non-structural BMPs
Structural BMPs
Select activity and site-specific BMPs

IMPLEMENTATION PHASE

Train employees
Implement BMPs
Conduct recordkeeping and reporting

EVALUATION / MONITORING

Conduct annual site evaluation
Review monitoring information
Evaluate BMPs
Review and revise SWPPP

The following information shall be included on the site map:

- a. The facility boundaries; the outline of all storm water drainage areas within the facility boundaries; portions of the drainage area impacted by run-on from surrounding areas; and direction of flow of each drainage area, on-site surface water bodies, and areas of soil erosion. The map shall also identify nearby water bodies (such as rivers, lakes, and ponds) and municipal storm drain inlets where the facility's storm water discharges and authorized non-storm water discharges may be received.
- b. The location of the storm water collection and conveyance system, associated points of discharge, and direction of flow. Include any structural control measures that affect storm water discharges, authorized non-storm water discharges, and run-on. Examples of structural control measures are catch basins, berms, detention ponds, secondary containment, oil/water separators, diversion barriers, etc.
- c. An outline of all impervious areas of the facility, including paved areas, buildings, covered storage areas, or other roofed structures.
- d. Locations where materials are directly exposed to precipitation and the locations where significant spills or leaks identified in Section A.6.a.iv. below have occurred.
- e. Areas of industrial activity. This shall include the locations of all storage areas and storage tanks, shipping and receiving areas, fueling areas, vehicle and equipment storage/maintenance areas, material handling and processing areas, waste treatment and disposal areas, dust or particulate generating areas, cleaning and rinsing areas, and other areas of industrial activity which are potential pollutant sources.

5. List of Significant Materials

The SWPPP shall include a list of significant materials handled and stored at the site. For each material on the list, describe the locations where the material is being stored, received, shipped, and handled, as well as the typical quantities and frequency. Materials shall include raw materials, intermediate products, final or finished products, recycled materials, and waste or disposed materials.

6. Description of Potential Pollutant Sources

- a. The SWPPP shall include a narrative description of the facility's industrial activities, as identified in Section A.4.e above, associated potential pollutant sources, and potential pollutants that could be discharged in storm water discharges or authorized non-storm water discharges. At a minimum, the following items related to a facility's industrial activities shall be considered:

- i. Industrial Processes

Describe each industrial process, the type, characteristics, and quantity of significant materials used in or resulting from the process, and a description of the manufacturing, cleaning, rinsing, recycling, disposal, or other activities related to the process. Where applicable, areas protected by containment structures and the corresponding containment capacity shall be described.

ii. Material Handling and Storage Areas

Describe each handling and storage area, type, characteristics, and quantity of significant materials handled or stored, description of the shipping, receiving, and loading procedures, and the spill or leak prevention and response procedures. Where applicable, areas protected by containment structures and the corresponding containment capacity shall be described.

iii. Dust and Particulate Generating Activities

Describe all industrial activities that generate dust or particulates that may be deposited within the facility's boundaries and identify their discharge locations; the characteristics of dust and particulate pollutants; the approximate quantity of dust and particulate pollutants that may be deposited within the facility boundaries; and a description of the primary areas of the facility where dust and particulate pollutants would settle.

iv. Significant Spills and Leaks

Describe materials that have spilled or leaked in significant quantities in storm water discharges or non-storm water discharges since April 17, 1994. Include toxic chemicals (listed in 40 CFR, Part 302) that have been discharged to storm water as reported on U.S. Environmental Protection Agency (U.S. EPA) Form R, and oil and hazardous substances in excess of reportable quantities (see 40 Code of Federal Regulations [CFR], Parts 110, 117, and 302).

The description shall include the type, characteristics, and approximate quantity of the material spilled or leaked, the cleanup or remedial actions that have occurred or are planned, the approximate remaining quantity of materials that may be exposed to storm water or non-storm water discharges, and the preventative measures taken to ensure spill or leaks do not reoccur. Such list shall be updated as appropriate during the term of this General Permit.

v. Non-Storm Water Discharges

Facility operators shall investigate the facility to identify all non-storm water discharges and their sources. As part of this investigation, all drains (inlets and outlets) shall be evaluated to identify whether they connect to the storm drain system.

All non-storm water discharges shall be described. This shall include the source, quantity, frequency, and characteristics of the non-storm water discharges and associated drainage area.

Non-storm water discharges that contain significant quantities of pollutants or that do not meet the conditions provided in Special Conditions D. are prohibited by this General Permit (Examples of prohibited non-storm water discharges are contact and non-contact cooling water, boiler blowdown, rinse water, wash water, etc.). Non-storm water discharges that meet the conditions provided in Special Condition D. are authorized by this General Permit. The SWPPP must include BMPs to prevent or reduce contact of non-storm water discharges with significant materials or equipment.

vi. Soil Erosion

Describe the facility locations where soil erosion may occur as a result of industrial activity, storm water discharges associated with industrial activity, or authorized non-storm water discharges.

- b. The SWPPP shall include a summary of all areas of industrial activities, potential pollutant sources, and potential pollutants. This information should be summarized similar to Table B. The last column of Table B, "Control Practices", should be completed in accordance with Section A.8. below.

7. Assessment of Potential Pollutant Sources

- a. The SWPPP shall include a narrative assessment of all industrial activities and potential pollutant sources as described in A.6. above to determine:
- i. Which areas of the facility are likely sources of pollutants in storm water discharges and authorized non-storm water discharges, and
 - ii. Which pollutants are likely to be present in storm water discharges and authorized non-storm water discharges. Facility operators shall consider and evaluate various factors when performing this assessment such as current storm water BMPs; quantities of significant materials handled, produced, stored, or disposed of; likelihood of exposure to storm water or authorized non-storm water discharges; history of spill or leaks; and run-on from outside sources.
- b. Facility operators shall summarize the areas of the facility that are likely sources of pollutants and the corresponding pollutants that are likely to be present in storm water discharges and authorized non-storm water discharges.

Facility operators are required to develop and implement additional BMPs as appropriate and necessary to prevent or reduce pollutants associated with each pollutant source. The BMPs will be narratively described in Section 8 below.

8. Storm Water Best Management Practices

The SWPPP shall include a narrative description of the storm water BMPs to be implemented at the facility for each potential pollutant and its source identified in the site assessment phase (Sections A.6. and 7. above). The BMPs shall be developed and implemented to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Each pollutant and its source may require one or more BMPs. Some BMPs may be implemented for multiple pollutants and their sources, while other BMPs will be implemented for a very specific pollutant and its source.

TABLE B
EXAMPLE

ASSESSMENT OF POTENTIAL POLLUTION SOURCES AND
CORRESPONDING BEST MANAGEMENT PRACTICES
SUMMARY

Area	Activity	Pollutant Source	Pollutant	Best Management Practices
Vehicle & Equipment Fueling	Fueling	<p>Spills and leaks during delivery.</p> <p>Spills caused by topping off fuel tanks.</p> <p>Hosing or washing down fuel oil fuel area.</p> <p>Leaking storage tanks.</p> <p>Rainfall running off fuel oil, and rainfall running onto and off fueling area.</p>	fuel oil	<p>Use spill and overflow protection.</p> <p>Minimize run-on of storm water into the fueling area.</p> <p>Cover fueling area.</p> <p>Use dry cleanup methods rather than hosing down area.</p> <p>Implement proper spill prevention control program.</p> <p>Implement adequate preventative maintenance program to preventive tank and line leaks.</p> <p>Inspect fueling areas regularly to detect problems before they occur.</p> <p>Train employees on proper fueling, cleanup, and spill response techniques.</p>

The description of the BMPs shall identify the BMPs as (1) existing BMPs, (2) existing BMPs to be revised and implemented, or (3) new BMPs to be implemented. The

description shall also include a discussion on the effectiveness of each BMP to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. The SWPPP shall provide a summary of all BMPs implemented for each pollutant source. This information should be summarized similar to Table B.

Facility operators shall consider the following BMPs for implementation at the facility:

a. Non-Structural BMPs

Non-structural BMPs generally consist of processes, prohibitions, procedures, schedule of activities, etc., that prevent pollutants associated with industrial activity from contacting with storm water discharges and authorized non-storm water discharges. They are considered low technology, cost-effective measures. Facility operators should consider all possible non-structural BMPs options before considering additional structural BMPs (see Section A.8.b. below). Below is a list of non-structural BMPs that should be considered:

i. Good Housekeeping

Good housekeeping generally consist of practical procedures to maintain a clean and orderly facility.

ii. Preventive Maintenance

Preventive maintenance includes the regular inspection and maintenance of structural storm water controls (catch basins, oil/water separators, etc.) as well as other facility equipment and systems.

iii. Spill Response

This includes spill clean-up procedures and necessary clean-up equipment based upon the quantities and locations of significant materials that may spill or leak.

iv. Material Handling and Storage

This includes all procedures to minimize the potential for spills and leaks and to minimize exposure of significant materials to storm water and authorized non-storm water discharges.

v. Employee Training

This includes training of personnel who are responsible for (1) implementing activities identified in the SWPPP, (2) conducting inspections, sampling, and visual observations, and (3) managing storm water. Training should address topics such as spill response, good housekeeping, and material handling procedures, and actions necessary to implement all BMPs identified in the

SWPPP. The SWPPP shall identify periodic dates for such training. Records shall be maintained of all training sessions held.

vi. Waste Handling/Recycling

This includes the procedures or processes to handle, store, or dispose of waste materials or recyclable materials.

vii. Recordkeeping and Internal Reporting

This includes the procedures to ensure that all records of inspections, spills, maintenance activities, corrective actions, visual observations, etc., are developed, retained, and provided, as necessary, to the appropriate facility personnel.

viii. Erosion Control and Site Stabilization

This includes a description of all sediment and erosion control activities. This may include the planting and maintenance of vegetation, diversion of run-on and runoff, placement of sandbags, silt screens, or other sediment control devices, etc.

ix. Inspections

This includes, in addition to the preventative maintenance inspections identified above, an inspection schedule of all potential pollutant sources. Tracking and follow-up procedures shall be described to ensure adequate corrective actions are taken and SWPPPs are made.

x. Quality Assurance

This includes the procedures to ensure that all elements of the SWPPP and Monitoring Program are adequately conducted.

b. Structural BMPs

Where non-structural BMPs as identified in Section A.8.a. above are not effective, structural BMPs shall be considered. Structural BMPs generally consist of structural devices that reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Below is a list of structural BMPs that should be considered:

i. Overhead Coverage

This includes structures that provide horizontal coverage of materials, chemicals, and pollutant sources from contact with storm water and authorized non-storm water discharges.

ii. Retention Ponds

This includes basins, ponds, surface impoundments, bermed areas, etc. that do not allow storm water to discharge from the facility.

iii. Control Devices

This includes berms or other devices that channel or route run-on and runoff away from pollutant sources.

iv. Secondary Containment Structures

This generally includes containment structures around storage tanks and other areas for the purpose of collecting any leaks or spills.

v. Treatment

This includes inlet controls, infiltration devices, oil/water separators, detention ponds, vegetative swales, etc. that reduce the pollutants in storm water discharges and authorized non-storm water discharges.

9. Annual Comprehensive Site Compliance Evaluation

The facility operator shall conduct one comprehensive site compliance evaluation (evaluation) in each reporting period (July 1-June 30). Evaluations shall be conducted within 8-16 months of each other. The SWPPP shall be revised, as appropriate, and the revisions implemented within 90 days of the evaluation. Evaluations shall include the following:

- a. A review of all visual observation records, inspection records, and sampling and analysis results.
- b. A visual inspection of all potential pollutant sources for evidence of, or the potential for, pollutants entering the drainage system.
- c. A review and evaluation of all BMPs (both structural and non-structural) to determine whether the BMPs are adequate, properly implemented and maintained, or whether additional BMPs are needed. A visual inspection of equipment needed to implement the SWPPP, such as spill response equipment, shall be included.
- d. An evaluation report that includes, (i) identification of personnel performing the evaluation, (ii) the date(s) of the evaluation, (iii) necessary SWPPP revisions, (iv) schedule, as required in Section A.10.e, for implementing SWPPP revisions, (v) any incidents of non-compliance and the corrective actions taken, and (vi) a certification that the facility operator is in compliance with this General Permit. If the above certification cannot be provided, explain in the evaluation report why the facility operator is not in compliance with this General Permit. The evaluation report shall be submitted as part of the annual report, retained for at least five years, and signed

and certified in accordance with Standard Provisions 9. and 10. of Section C. of this General Permit.

10. SWPPP General Requirements

- a. The SWPPP shall be retained on site and made available upon request of a representative of the Regional Water Board and/or local storm water management agency (local agency) which receives the storm water discharges.
- b. The Regional Water Board and/or local agency may notify the facility operator when the SWPPP does not meet one or more of the minimum requirements of this Section. As requested by the Regional Water Board and/or local agency, the facility operator shall submit an SWPPP revision and implementation schedule that meets the minimum requirements of this section to the Regional Water Board and/or local agency that requested the SWPPP revisions. Within 14 days after implementing the required SWPPP revisions, the facility operator shall provide written certification to the Regional Water Board and/or local agency that the revisions have been implemented.
- c. The SWPPP shall be revised, as appropriate, and implemented prior to changes in industrial activities which (i) may significantly increase the quantities of pollutants in storm water discharge, (ii) cause a new area of industrial activity at the facility to be exposed to storm water, or (iii) begin an industrial activity which would introduce a new pollutant source at the facility.
- d. Other than as provided in Provisions B.11, B.12, and E.2 of the General Permit, the SWPPP shall be revised and implemented in a timely manner, but in no case more than 90 days after a facility operator determines that the SWPPP is in violation of any requirement(s) of this General Permit.
- e. When any part of the SWPPP is infeasible to implement by the deadlines specified in Provision E.2 or Sections A.1, A.9, A.10.c, and A.10.d of this General Permit due to proposed significant structural changes, the facility operator shall submit a report to the Regional Water Board prior to the applicable deadline that (i) describes the portion of the SWPPP that is infeasible to implement by the deadline, (ii) provides justification for a time extension, (iii) provides a schedule for completing and implementing that portion of the SWPPP, and (iv) describes the BMPs that will be implemented in the interim period to reduce or prevent pollutants in storm water discharges and authorized non-storm water discharges. Such reports are subject to Regional Water Board approval and/or modifications. Facility operators shall provide written notification to the Regional Water Board within 14 days after the SWPPP revisions are implemented.
- f. The SWPPP shall be provided, upon request, to the Regional Water Board. The SWPPP is considered a report that shall be available to the public by the Regional Water Board under Section 308(b) of the Clean Water Act.

Constituent	Units	Discharge Limitations	
		Monthly Average	Daily Maximum
Summer Ammonia Nitrogen (May – October)	mg/L	0.045	0.30
	lbs/day	5.3	35
Winter Ammonia Nitrogen (November – April)	mg/L	0.079	0.53
	lbs/day	9.3	62
Nitrite + Nitrate Nitrogen	mg/L	10	--
	lbs/day	1,200	--
Nitrate Nitrogen	mg/L	10	--
	lbs/day	1,200	--

- A. Numeric limitations for ammonia resulted from the calculations of the *Saltwater Ammonia Objectives for Inland Surface Water, Resolution No. 2004-022*.
 - B. The limitations for nitrite plus nitrate nitrogen and nitrate nitrogen were based on the Water Quality Objectives in the Basin Plan.
 - C. These final effluent limits take effect immediately on the effective date (March 6, 2008) of NPDES Order No. R4-2008-0011; i.e.,.
 - D. The Discharger cannot meet the effluent limits for ammonia nitrogen, nitrate nitrogen, and nitrite plus nitrate nitrogen. Therefore, interim limits are needed for these chemicals.
 - E. To achieve compliance with the effluent limitations, the Discharger may modify or improve the treatment system; conduct studies leading to approvable site-specific objectives (SSOs). Regional Board approval of Basin Plan amendments for the SSOs must be obtained on or before the compliance dates.
4. California Water Code section 13300 allows the discharger “to submit for approval by the board, with such modifications as [the board] may deem necessary, a detailed time schedule of specific actions the discharger shall take in order to correct or prevent a violation of requirements.”
 5. In conformance with Water Code section 13385(j)(3), the Discharger shall submit a workplan specifying actions that the Discharger will take in order to prevent the violations of the applicable effluent limitations for ammonia nitrogen, nitrate nitrogen, nitrite plus nitrate nitrogen. Further, the limitations covered by this Time Schedule Order (TSO) are necessary because the effluent limitations became effective immediately on March 6, 2008, new control measures are necessary to comply with the limitations, and the appropriate control measures cannot be put into operation within 30 days. The Regional Board concluded that the Discharger’s three year compliance schedule was as short as possible, taking into

account the technological, operational, and economic factors that affect the design, development, and implementation of the control measures.

6. This TSO allows the Discharger to achieve full compliance with the ammonia nitrogen, nitrate nitrogen, and nitrite plus nitrate nitrogen effluent limitations according to water quality objectives specified in the Basin Plan, and prescribes interim limits for ammonia nitrogen, nitrate nitrogen, and nitrite plus nitrate nitrogen for the Facility to comply until the full compliance date.
7. Exceedances of the final effluent NPDES limits for ammonia nitrogen, nitrate nitrogen, and nitrite plus nitrate nitrogen are not subject to CWC Section 13385 subdivisions (h) and (i) as long as the City complies with all of the requirements of the TSO; does not exceed the interim limits; and, meets requirements A through D of CWC Section 13385(j)(3).
8. The action taken by this Regional Board pertaining to the time schedule does not preclude the possibility of actions to enforce the waste discharge requirements and permit by third parties pursuant to section 505 of the Federal Clean Water Act.
9. The Regional Board may reopen this TSO at its discretion or at the request of the Discharger, if warranted.
10. The Discharger's prior waste discharge requirements and NPDES permit already contained provisions for completing facility upgrades. As such, this TSO concerns an existing facility, does not significantly alter the status with respect to the facility, and is, therefore, categorically exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21100, et.seq.) in accordance with Section 15301 of Title 14, California Code of Regulations.

The Board notified the City of San Buenaventura and interested agencies and persons of its intent to issue this Time Schedule Order.

The Board, in a public hearing, heard and considered all testimony pertinent to this matter. All orders, studies, and other document referred to above and records of hearings and testimony therein are incorporated by reference made a part of the administrative record.

IT IS HEREBY ORDERED that pursuant to the California Water Code section 13300, the City of San Buenaventura, as operator of the Ventura Water Reclamation Facility, shall:

1. Comply immediately with the following interim effluent limits:

Constituent	Units	Interim Monthly Average	Interim Daily Maximum
Summer Ammonia (May – October)	mg/L	2.1	2.5
	lb/Day	250	290
Winter Ammonia (November – April)	mg/L	3.0	3.6
	lb/Day	350	420
Nitrite + Nitrate	mg/L	19	21
	lb/Day	2,200	2,500
Nitrate	mg/L	19	21
	lb/Day	2,200	2,500

The interim effluent limits, based on normal distribution and effluent data collected from February 2003 to December 2006, were derived statistically at 95 % and 99% percentiles using Minitab software for monthly average and daily maximum, respectively.

2. The above interim limits for ammonia nitrogen, nitrate nitrogen, and nitrite plus nitrate nitrogen are effective immediately on March 6, 2008 and will expire on March 5, 2011.
3. Submit a pollution prevention plan (PPP) workplan with a time schedule for implementation for approval of the Executive Officer within 120 days after the adoption of this TSO (by July 4, 2008), pursuant to CWC section 13263.3.
4. Submit quarterly progress reports of efforts towards compliance with the effluent limits for ammonia nitrogen, nitrate nitrogen, and nitrite plus nitrate nitrogen to include, but not limited to:
 - A. Status of the plant modification/ upgrade activities; and/or,
 - B. Status of the development of any SSOs.

Progress reports shall be received by the fifteenth day of the second month following the reporting quarter (February 15, May 15, August 15 and November 15). The first progress report shall be received at the Regional Board by August 15, 2008, and will cover the months of April 2008 through June 2008.

5. All other provisions and requirements of Order No. R4-2008-0011 not in conflict with this Order remain in full force and effect.
6. If the Discharger fails to comply with any provisions of this Order, the Executive Officer may issue an Administrative Civil Liability Complaint pursuant to California Water Code Section 13323. The Regional Board may also refer the case to the

Attorney General for injunction and civil monetary remedies, pursuant to California Water Code sections 13331 and 13385.

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 6, 2008.



Tracy J. Egoscue
Executive Officer

Chief Deputy E.O.
for

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