

IV. Combined Ocean Outfall Data  
Data Summaries

This section presents the results of analyses of the combined or mixed effluent stream being discharged to the South Bay Ocean Outfall from the South Bay Wastewater Reclamation and International Wastewater Treatment Plant for 2008.

SB\_ITP\_COMB\_EFF designates a composite sample taken at a point downstream of the discharges of both plants where the wastewater stream is a mixture of both effluents (the secondary or tertiary effluent from SBWRP and the primary effluent from the IWTP).

Sampling and monitoring analyses occurred quarterly in February, May, August and October.

Discharge limits do not apply to this combined flow; but quarterly monitoring is required.

The following table illustrates the differences between the effluent from the SBWRP and the combined flow from both the SBWRP and the International Wastewater Treatment Plant (IWTP). The flow and loadings from the IWTP clearly over-shadow the SBWRP contributions. The IWTP effluent flows average 24.5-MGD<sup>1</sup> (>88% of the total) compared to the 3.2-MGD from the SBWRP. The previously discussed impacts on the samples for the SBWRP effluent are evident in this table as well. The heavily impacted May and August flows show the described correlations to the IWTP effluent, not characteristic of the SBWRP's secondary and tertiary effluent.

Comparison of Major Constituents - SBWRP Effluent to Outfall vs. Combined Outfall Effluent

Parameter	12-Feb-2008		13-May-2008		12-Aug-2008		07-Oct-2008	
	SB Effluent	Combined						
BOD	9.62	146	127	147	66.3	126	3.65	126
TSS	5.80	46.7	45	47	9.6	51	3.60	44.3
VSS	4.9	35.0	36	39	8.8	41	2.8	27.1
TDS	933	1400	1360	1480	1300	1390	913	1410
Turbidity	2.2	9.5	35.1	36.1	105	39.3	1.72	35.5
Effluent to Outfall Flow	3.87	NA	0.14	NA	0.08	NA	2.26	NA
Recycled Flow	3.37		6.76		6.85		4.81	
Ammonia-N	ND	35.4	41.5	46.3	25.9	42.3	nd	35.8
Cyanide	ND	0.005	0.005	0.014	ND	0.004	nd	0.007
Iron	57.5	1870	1930	1680	952	2430	<37	1510
Manganese	21.8	81.4	134	133	92.5	111	17.6	101
Nickel	1.91	189	18.5	32.5	12.7	24	4.14	26.5

<sup>1</sup> 2006 IWTP Annual Report.

SOUTH BAY WATER RECLAMATION PLANT  
Annual Summary: COMBINED OUTFALL

From: 01-JAN-2008 To: 31-DEC-2008

Source: SB\_ITP\_COMB\_EFF

Date:		12-FEB-2008	13-FEB-2008	13-MAY-2008	14-MAY-2008	12-AUG-2008
Sample ID:	MDL Units	P414563	P414564	P424852	P424853	
		Comp	Grab	Comp	Grab	
BOD (Biochemical Oxygen Demand)	2 MG/L	146		147		126
Total Suspended Solids	1.4 MG/L	46.7		47.0		51.0
Volatile Suspended Solids	1.6 MG/L	35.0		39.0		41.0
Total Dissolved Solids	28 MG/L	1400		1480		1390
pH	PH	7.5	7.3	7.6	7.5	7.5
Settleable Solids	.1 ML/L		9.5		2.5	0.4
Turbidity	.13 NTU	23.6		36.1		39.3
Total Kjeldahl Nitrogen	1.6 MG/L	46.9		55.6		51.0
Chlorine Residual, Total	.03 MG/L		ND		ND	ND
Ammonia-N	.3 MG/L	35		46		42
Total Alkalinity (bicarbonate)	20 MG/L	308		388		350
Calcium Hardness	.1 MG/L	246		255		230
Magnesium Hardness	.4 MG/L	176		193		195
Total Hardness	.4 MG/L	421		448		425
Aluminum	47 UG/L	253		270		183
Antimony	2.9 UG/L	ND		ND		3
Arsenic	.4 UG/L	1.24		1.95		2.22
Barium	.039 UG/L	31.2		24.3		23.8
Beryllium	.022 UG/L	ND		ND		ND
Boron	1.7 UG/L	528		444		500
Cadmium	.53 UG/L	ND		ND		ND
Chromium	1.2 UG/L	5.0		2.7		3.5
Cobalt	.85 UG/L	1.6		1.1		ND
Copper	.63 UG/L	26.0		42.9		20.6
Iron	37 UG/L	1870		1680		2430
Lead	2 UG/L	ND		ND		ND
Manganese	.24 UG/L	81.4		133		111
Mercury	.09 UG/L	ND		ND		ND
Molybdenum	.89 UG/L	7.5		9.7		10.3
Nickel	.53 UG/L	189		32.5		24.0
Selenium	.28 UG/L	1.73		1.79		1.98
Silver	.4 UG/L	ND		ND		0.5
Thallium	3.9 UG/L	ND		ND		ND
Vanadium	.64 UG/L	1.1		2.0		0.9
Zinc	.41 UG/L	71.5		43.1		31.1
Bromide	.1 MG/L	0.40		0.58		0.49
Chloride	7 MG/L	339		374		388
Fluoride	.05 MG/L	0.65		0.72		0.81
Nitrate	.04 MG/L	4.31		ND		ND
Ortho Phosphate	.2 MG/L	2.93		5.32		7.44
Sulfate	9 MG/L	353		366		380
Calcium	.04 MG/L	98		102		92
Lithium	.002 MG/L	0.07		0.07		0.08
Magnesium	.1 MG/L	43		47		47
Potassium	.3 MG/L	25		27		27
Sodium	1 MG/L	315		343		356
Cyanides, Total	.002 MG/L	0.005		0.014		0.004
Sulfides-Total	.18 MG/L	0.40		0.61		ND

ND= Not Detected  
NA= Not Analyzed  
NS= Not Sampled

Chromium results are for Total Chromium

SOUTH BAY WATER RECLAMATION PLANT

Annual Summary: COMBINED OUTFALL

From: 01-JAN-2008 To: 31-DEC-2008

Source: SB\_ITP\_COMB\_EFF

Date:

07-OCT-2008

	MDL Units		
=====	=====	=====	=====
BOD (Biochemical Oxygen Demand)	2	MG/L	126
Total Suspended Solids	1.4	MG/L	44.3
Volatile Suspended Solids	1.6	MG/L	27.1
Total Dissolved Solids	28	MG/L	1410
pH		PH	7.5
Settleable Solids	.1	ML/L	0.5
Turbidity	.13	NTU	35.5
Total Kjeldahl Nitrogen	1.6	MG/L	45.5
Chlorine Residual, Total	.03	MG/L	ND
Ammonia-N	.3	MG/L	36
Total Alkalinity (bicarbonate)	20	MG/L	328
Calcium Hardness	.1	MG/L	241
Magnesium Hardness	.4	MG/L	192
Total Hardness	.4	MG/L	433
Aluminum	47	UG/L	220
Antimony	2.9	UG/L	ND
Arsenic	.4	UG/L	2.55
Barium	.039	UG/L	32.2
Beryllium	.022	UG/L	ND
Boron	1.7	UG/L	463
Cadmium	.53	UG/L	ND
Chromium	1.2	UG/L	1.8
Cobalt	.85	UG/L	ND
Copper	.63	UG/L	23.1
Iron	37	UG/L	1510
Lead	2	UG/L	ND
Manganese	.24	UG/L	101
Mercury	.09	UG/L	ND
Molybdenum	.89	UG/L	8.8
Nickel	.53	UG/L	26.5
Selenium	.28	UG/L	1.36
Silver	.4	UG/L	1.8
Thallium	3.9	UG/L	ND
Vanadium	.64	UG/L	0.7
Zinc	.41	UG/L	33.2
Bromide	.1	MG/L	0.45
Chloride	7	MG/L	361
Fluoride	.05	MG/L	0.81
Nitrate	.04	MG/L	0.55*
Ortho Phosphate	.2	MG/L	8.43^
Sulfate	9	MG/L	356
Calcium	.04	MG/L	97
Lithium	.002	MG/L	0.08
Magnesium	.1	MG/L	47
Potassium	.3	MG/L	26
Sodium	1	MG/L	326
Cyanides, Total	.002	MG/L	0.007
Sulfides-Total	.18	MG/L	ND

\* = Check Sample recovery was less than the 90% lower acceptance limit. External check recovery was 89% of true value.

^ = Check Sample recovery was greater than the 110% upper acceptance limit. External check recovery ranged from 113% to 121% of true value.

ND= Not Detected, NA= Not Analyzed, NS= Not Sampled

SOUTH BAY WATER RECLAMATION PLANT  
Annual Summary: COMBINED OUTFALL

(SB\_ITP\_COMB\_EFF)  
Temperature

From 01-JAN-2008 to 31-DEC-2008

	Temperature
	GRAB
	(C)
=====	=====
13-FEB-2008	20.1
14-MAY-2008	23.1
12-AUG-2008	24.7
07-OCT-2008	25.4
=====	=====
Average:	23.3
Maximum:	25.4
Minimum:	20.1

NA= Not Analyzed  
NS= Not Sampled  
ND= Not Detected

SOUTH BAY WATER RECLAMATION PLANT  
Annual Summary: COMBINED OUTFALL

Ammonia-Nitrogen and Total Cyanides

From: 01-JAN-2008 To: 31-DEC-2008

Source: SB\_ITP\_COMB\_EFF

	Ammonia-N .3 MG/L COMB EFF	Cyanides, Total .002 MG/L COMB EFF
=====	=====	=====
FEBRUARY -2008	35.4	0.005
MAY -2008	46.3	0.014
AUGUST -2008	42.3	0.005
OCTOBER -2008	35.8	0.007
=====	=====	=====
Average:	40.0	0.007

ND= not detected  
NA= not analyzed  
NS= not sampled

SOUTH BAY WATER RECLAMATION PLANT  
Annual Summary: COMBINED OUTFALL

(SB\_ITP\_COMB\_EFF)  
Radioactivity

From: 01-JAN-2008 To: 31-DEC-2008

Source	Month	Gross Alpha Radiation
SB_ITP_COMB_EFF	FEBRUARY -2008	1.2±0.9
SB_ITP_COMB_EFF	MAY -2008	1.7±1.2
SB_ITP_COMB_EFF	AUGUST -2008	3.5±3.2
SB_ITP_COMB_EFF	OCTOBER -2008	1.8±2.0
AVERAGE		2.1±1.8

Source	Month	Gross Beta Radiation
SB_ITP_COMB_EFF	FEBRUARY -2008	19.9±4.6
SB_ITP_COMB_EFF	MAY -2008	28.8±6.3
SB_ITP_COMB_EFF	AUGUST -2008	26.4±6.3
SB_ITP_COMB_EFF	OCTOBER -2008	26.4±5.6
AVERAGE		25.4±5.7

ND= not detected  
NA= not analyzed  
NS= not sampled

Units in picocuries/liter (pCi/L)

SOUTH BAY WATER RECLAMATION PLANT  
Annual Summary: COMBINED OUTFALL  
Chlorinated Pesticide Analysis

From 01-JAN-2008 To 31-DEC-2008

Source: SB\_ITP\_COMB\_EFF

Analyte	MDL	Units	FEB	MAY	AUG	OCT	Avg
Aldrin	7	NG/L	ND	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	7	23	ND	8
BHC, Delta isomer	3	NG/L	ND	ND	18	ND	5
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	18	ND	5
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	10	ND	3
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND
=====							
Aldrin + Dieldrin	7	NG/L	0	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	7	41	0	12
DDT and derivatives	8	NG/L	0	0	18	0	5
Chlordane + related cmpds.	6	NG/L	0	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0	0
Endosulfans	6	NG/L	0	0	10	0	3
=====							
Heptachlors	8	NG/L	0	0	0	0	0
=====							
Chlorinated Hydrocarbons	4000	NG/L	0	7	69	0	19

ND=not detected; NS=not sampled; NA=not analyzed

"Standards for alpha and gamma chlordene are no longer available in the U.S. for the analysis of these compounds."

SOUTH BAY WATER RECLAMATION PLANT  
Annual Summary: COMBINED OUTFALL

Acid Extractables

From 01-JAN-2008 To 31-DEC-2008

Source: SB\_ITP\_COMB\_EFF

Analyte	MDL	Units	FEB	MAY	AUG	OCT	Avg
2-chlorophenol	1.76	UG/L	ND	ND	ND	ND	ND
2,4-dichlorophenol	1.95	UG/L	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND	ND
2,4,6-trichlorophenol	1.75	UG/L	ND	ND	ND	ND	ND
Pentachlorophenol	5.87	UG/L	ND	ND	ND	ND	ND
Phenol	2.53	UG/L	29.4	48.6	19.2	21.4	29.7
2-nitrophenol	1.88	UG/L	ND	ND	ND	ND	ND
2,4-dimethylphenol	2.01	UG/L	ND	ND	ND	ND	ND
2,4-dinitrophenol	6.07	UG/L	ND	ND	ND	ND	ND
4-nitrophenol	3.17	UG/L	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	4.29	UG/L	ND	ND	ND	ND	ND
Total Chlorinated Phenols	5.87	UG/L	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	6.07	UG/L	29.4	48.6	19.2	21.4	29.7
Total Phenols	6.07	UG/L	29.4	48.6	19.2	21.4	29.7
2-methylphenol	2.15	UG/L	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)	4.4	UG/L	ND	ND	ND	NA	ND
4-methylphenol(3-MP is unresolved)	4.22	UG/L	82.3	14.1	3.0	ND	24.9
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND

ND=not detected; NS=not sampled; NA=not analyzed

SOUTH BAY WATER RECLAMATION PLANT  
Annual Summary: COMBINED OUTFALL  
Priority Pollutants Base/Neutrals

From 01-JAN-2008 To 31-DEC-2008

Source: SB\_ITP\_COMB\_EFF

Analyte	MDL	Units	EFF	EFF	EFF	EFF	EFF
			FEB	MAY	AUG	OCT	Avg
bis(2-chloroethyl) ether	2.62	UG/L	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	8.95	UG/L	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.63	UG/L	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND
Hexachloroethane	3.55	UG/L	ND	ND	ND	ND	ND
Isophorone	1.93	UG/L	6.1	ND	ND	ND	1.5
bis(2-chloroethoxy)methane	1.57	UG/L	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	2.1	ND	ND	ND	0.5
Hexachlorobutadiene	2.87	UG/L	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND
Acenaphthylene	2.02	UG/L	ND	ND	ND	ND	ND
Dimethyl phthalate	3.26	UG/L	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.93	UG/L	ND	ND	ND	ND	ND
Acenaphthene	2.2	UG/L	ND	ND	ND	ND	ND
2,4-dinitrotoluene	1.49	UG/L	ND	ND	ND	ND	ND
Fluorene	2.43	UG/L	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	3.62	UG/L	ND	ND	ND	ND	ND
Diethyl phthalate	6.97	UG/L	ND	14.2	4.9	5.9	6.3
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	4.04	UG/L	ND	ND	ND	ND	ND
Hexachlorobenzene	4.8	UG/L	ND	ND	ND	ND	ND
Phenanthrene	4.15	UG/L	ND	ND	ND	ND	ND
Anthracene	4.04	UG/L	ND	ND	ND	ND	ND
Di-n-butyl phthalate	6.49	UG/L	ND	ND	ND	ND	ND
N-nitrosodimethylamine	2.01	UG/L	ND	ND	ND	ND	ND
Fluoranthene	6.9	UG/L	ND	ND	ND	ND	ND
Pyrene	5.19	UG/L	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND
Butyl benzyl phthalate	4.77	UG/L	ND	ND	ND	ND	ND
Chrysene	7.49	UG/L	ND	ND	ND	ND	ND
Benzo[A]anthracene	7.68	UG/L	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	10.43	UG/L	ND	11.2	ND	ND	2.8
Di-n-octyl phthalate	8.59	UG/L	ND	ND	ND	ND	ND
3,3-dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	7.36	UG/L	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	6.63	UG/L	ND	ND	ND	ND	ND
Benzo[A]pyrene	6.53	UG/L	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	6.27	UG/L	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	6.19	UG/L	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	6.5	UG/L	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	2.49	UG/L	ND	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	7.68	UG/L	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	10.43	UG/L	8.2	25.4	4.9	5.9	11.1
1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND
2-methylnaphthalene	2.25	UG/L	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	3.31	UG/L	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	4.4	UG/L	ND	ND	ND	ND	ND
1-methylphenanthrene	6.29	UG/L	ND	ND	ND	ND	ND
Benzo[e]pyrene	7.67	UG/L	ND	ND	ND	ND	ND
Perylene	6.61	UG/L	ND	ND	ND	ND	ND
Biphenyl	2.43	UG/L	ND	ND	ND	ND	ND

ND=not detected; NS=not sampled; NA=not analyzed

SOUTH BAY WATER RECLAMATION PLANT  
Annual Summary: COMBINED OUTFALL

Tributyl Tin Analysis

From 01-JAN-2008 To 31-DEC-2008

Source: SB\_ITP\_COMB\_EFF

Analyte	MDL	Units	FEB	MAY	AUG	OCT	Avg
Dibutyltin	7	UG/L	ND	ND	ND	ND	ND
Monobutyltin	16	UG/L	ND	ND	ND	ND	ND
Tributyltin	2	UG/L	ND	ND	ND	ND	ND

ND=not detected  
NS=not sampled  
NA=not analyzed

SOUTH BAY WATER RECLAMATION PLANT  
Annual Summary: COMBINED OUTFALL  
Priority Pollutants Purgeables  
From 01-JAN-2008 To 31-DEC-2008

Source: SB\_ITP\_COMB\_EFF

Analyte	MDL	Units	FEB	MAY	AUG	OCT	Avg
Dichlorodifluoromethane		UG/L	ND	ND	ND	ND	ND
Chloromethane	1	UG/L	ND	ND	ND	ND	ND
Vinyl chloride	1	UG/L	ND	ND	ND	ND	ND
Bromomethane	1	UG/L	ND	ND	ND	ND	ND
Chloroethane	1	UG/L	ND	ND	ND	ND	ND
Trichlorofluoromethane	1	UG/L	ND	ND	ND	ND	ND
Acrolein	11.4	UG/L	ND	ND	ND	ND	ND
1,1-dichloroethane	1	UG/L	ND	ND	ND	ND	ND
Methylene chloride	1	UG/L	3.0	2.4*	2.7	2.1	2.6
trans-1,2-dichloroethene	1	UG/L	ND	ND	ND	ND	ND
1,1-dichloroethene	1	UG/L	ND	ND	ND	ND	ND
Acrylonitrile	13.8	UG/L	ND	ND	ND	ND	ND
Chloroform	1	UG/L	8.8	2.2	4.0	4.1	4.8
1,1,1-trichloroethane	1	UG/L	ND	ND	ND	ND	ND
Carbon tetrachloride	1	UG/L	ND	ND	ND	ND	ND
Benzene	1	UG/L	ND	ND	ND	ND	ND
1,2-dichloroethane	1	UG/L	ND	ND	ND	ND	ND
Trichloroethene	1	UG/L	ND	ND	ND	ND	ND
1,2-dichloropropane	1	UG/L	ND	ND	ND	ND	ND
Bromodichloromethane	1	UG/L	ND	ND	ND	ND	ND
2-chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	1	UG/L	ND	ND	ND	ND	ND
Toluene	1	UG/L	21.4	6.7	9.8	11.2	12.3
trans-1,3-dichloropropene	1	UG/L	ND	ND	ND	ND	ND
1,1,2-trichloroethane	1	UG/L	ND	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	1.3	1.5	1.1	ND	1.0
Dibromochloromethane	1	UG/L	<1.0	1.4	0.9	ND	0.6
Chlorobenzene	1	UG/L	ND	ND	ND	ND	ND
Ethylbenzene	1	UG/L	1.9	1.0	2.2	3.9	2.3
Bromoform	1	UG/L	ND	0.6	ND	ND	0.2
1,1,2,2-tetrachloroethane	1	UG/L	ND	0.8	ND	ND	0.2
1,3-dichlorobenzene	1	UG/L	ND	ND	ND	ND	ND
1,4-dichlorobenzene	1	UG/L	4.0	4.8	5.2*	4.7*	4.4
1,2-dichlorobenzene	1	UG/L	ND	ND	ND*	ND	ND
Halomethane Purgeable Cmpnds	1	UG/L	0.0	0.6	0.0	0.0	0.2
Dichlorobenzenes	1	UG/L	0.0	0.0	0.0	0.0	0.0
Total Chloromethanes	1	UG/L	11.8	2.2	6.7	6.2	6.7
Purgeable Compounds	13.8	UG/L	40.4	19.0	20.7	21.3	25.4
Methyl Iodide	1	UG/L	ND	ND	ND	ND	ND
Carbon disulfide	1	UG/L	1.8	2.6	4.8	3.1	3.1
Acetone	20	UG/L	373	1010	705	584	668
Allyl chloride	1	UG/L	ND	ND	ND	ND	ND
Methyl tert-butyl ether	1	UG/L	ND	0.6	0.6	ND	0.3
Chloroprene	1.4	UG/L	ND	ND	ND	ND	ND
1,2-dibromoethane	3.3	UG/L	ND	ND	ND	ND	ND
2-butanone	6.3	UG/L	8.1	35.5	13.7	152.0	52.3
Methyl methacrylate	4.6	UG/L	ND	ND	ND	ND	ND
2-nitropropane	12	UG/L	ND	ND	ND	ND	ND
4-methyl-2-pentanone	6.1	UG/L	ND	ND	27.8	2.4	7.6
meta,para xylenes	3.1	UG/L	8.3	4.4	10.1	17.5	10.1
ortho-xylene	3.4	UG/L	5.9	4.7	6.2	10.7	6.9
Isopropylbenzene	4.4	UG/L	ND	1.4	0.5	1.5	0.9
Styrene	4.7	UG/L	ND	ND	ND	0.5	0.1
Benzyl chloride	7.2	UG/L	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND

\* = Batch did not meet QC criteria, blank contamination, the blank value for this compound in this batch was above the MDL

ND=not detected; NS=not sampled; NA=not analyzed

SOUTH BAY WATER RECLAMATION PLANT  
Annual Summary: COMBINED OUTFALL

Organophosphorus Pesticides  
EPA Method 614/622 (with additions)

From 01-JAN-2008 To 31-DEC-2008

Source: SB\_ITP\_COMB\_EFF

Analyte:	MDL Units	13-MAY-2008	07-OCT-2008
		P424852	P443480
Demeton O	.15 UG/L	ND	ND
Demeton S	.08 UG/L	ND	ND
Diazinon	.03 UG/L	ND	ND
Guthion	.15 UG/L	ND	ND
Malathion	.03 UG/L	ND	ND
Parathion	.03 UG/L	ND	ND
Dichlorvos	.05 UG/L	0.6	0.5
Dibrom	.2 UG/L	ND	ND
Ethoprop	.04 UG/L	ND	ND
Phorate	.04 UG/L	ND	ND
Sulfotepp	.04 UG/L	ND	ND
Disulfoton	.02 UG/L	ND	ND
Dimethoate	.04 UG/L	ND	ND
Ronnel	.03 UG/L	ND	ND
Trichloronate	.04 UG/L	ND	ND
Merphos	.09 UG/L	ND	ND
Dichlofenthion	.03 UG/L	ND	ND
Tokuthion	.06 UG/L	ND	ND
Stirophos	.03 UG/L	ND	ND
Bolstar	.07 UG/L	ND	ND
Fensulfothion	.07 UG/L	ND	ND
EPN	.09 UG/L	ND	ND
Coumaphos	.15 UG/L	ND	ND
Mevinphos, e isomer	.05 UG/L	ND	ND
Mevinphos, z isomer	.3 UG/L	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.0	0.0
Demeton -O, -S	.15 UG/L	0.0	0.0
Total Organophosphorus Pesticides	.3 UG/L	0.6	0.5

ND=not detected; NS=not sampled; NA=not analyzed

SOUTH BAY WATER RECLAMATION PLANT  
Annual Summary: COMBINED OUTFALL

(SB\_ITP\_COMB\_EFF)  
Dioxin and Furan Analysis

From 01-JAN-2008 To 31-DEC-2008

Analyte:	MDL	Units	Equiv	COMB EFF	COMB EFF	COMB EFF	COMB EFF
				FEB	MAY	AUG	OCT
				P414563	P424852	P435078	P443480
2,3,7,8-tetra CDD	500	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	0.010	ND	ND	ND	ND
octa CDD	1000	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND
octa CDF	1000	PG/L	0.001	ND	ND	ND	ND

Analyte:	MDL	Units	Equiv	COMB EFF	COMB EFF	COMB EFF	COMB EFF
				TCCD	TCCD	TCCD	TCCD
				FEB	MAY	AUG	OCT
				P414563	P424852	P435078	P443480
2,3,7,8-tetra CDD	500	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	0.010	ND	ND	ND	ND
octa CDD	1000	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND
octa CDF	1000	PG/L	0.001	ND	ND	ND	ND

Above are permit required CDD/CDF isomers.

ND= not detected  
NA= not analyzed  
NS= not sampled

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