

VII. Reclaimed Water Data Summary.

The results of all analyses performed on Reclaimed water are summarized in tables with monthly and annual averages (and in some cases annual totals) calculated.

Graphs of monthly averages are presented.

South Bay Water Reclamation plant began Reclaimed water production on July 6, 2006.

- A. Reclaimed Water Data Summaries
- B. Reclaimed Water Graphs
- C. Daily Values of Selected Parameters
- D. Total Coliforms Data Summaries
- E. UV Performance Report

A. Reclaimed Water Data Summaries

The results of all analyses performed on the SBWRP Reclaimed are summarized in tables with monthly and annual averages (and in some cases annual totals) calculated.

South Bay Water Reclamation Plant
Annual Recycled Water Turbidity Report - 2010

Data from in-plant meter ⁴

Date	Average Daily Turbidity (NTU)	Minimum Daily ¹ Turbidity (NTU)	Maximum Daily ² Turbidity (NTU)	Time over ³ 5 ntu's (minutes)
Jan	0.96	0.77	1.08	0
Feb	0.61	0.41	0.68	0
Mar	0.43	0.35	0.66	0.01
Apr	0.91	0.72	1.38	0
May	0.43	0.32	0.69	0
Jun	0.55	0.44	1.19	0.01
Jul	0.38	0.26	0.92	0
Aug	0.46	0.24	1.16	0.16
Sep	0.42	0.33	0.65	0
Oct	0.47	0.35	0.64	0
Nov	0.53	0.49	0.68	0
Dec	0.85	0.56	1.41	0.02
Average:	0.46			

¹ Minimum Daily value is the average recorded for the month.

² Maximum Daily value is the average recorded value for the month.

³ Total time for the month.

⁴ Compliance monitoring point, values taken from the DCS Point (S29AI0203), located at the UV Vault in Area 29 (Tertiary UV Disinfection System)

SOUTH BAY WATER RECLAMATION PLANT

Annual 2010

Reclaimed Water
(SB_REC_WATER_34)

	Flow (mgd)	pH	Biochemical Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Turbidity* (NTU)
JANUARY -2010	5.06	7.53	3.4	<1.4	<1.6	1020	2.49
FEBRUARY -2010	6.32	7.38	3.1	1.6	<1.6	998	1.00
MARCH -2010	5.20	7.38	2.1	<1.4	<1.6	1000	0.79
APRIL -2010	5.12	7.36	3.3	<1.4	<1.6	1010	1.29
MAY -2010	2.41	7.34	2.0	<1.4	<1.6	960	0.95
JUNE -2010	0.84	7.32	2.7	<1.4	<1.6	971	0.61
JULY -2010	0.95	7.38	2.9	2.8	2.1	958	1.17
AUGUST -2010	0.66	7.43	2.3	2.0	<1.6	937	1.25
SEPTEMBER-2010	1.07	7.44	3.1	1.6	<1.6	957	1.29
OCTOBER -2010	4.38	7.35	3.6	<1.4	<1.6	933	0.90
NOVEMBER -2010	3.90	7.39	3.4	1.8	<1.6	981	1.18
DECEMBER -2010	5.32	7.41	7.1	2.7	2.1	983	2.29
Average	3.44	7.39	3.3	1.0	0.4	976	1.27

ND=not detected

*= Not for reclaimed turbidity compliance, see monthly reports for compliance monitoring.

South Bay Water Reclamation Plant
Physical Data

Annual 2010

Source: Analytes	MDL Units	SB_REC_WATER_34 02-FEB-2010	SB_REC_WATER_34 04-MAY-2010	SB_REC_WATER_34 02-AUG-2010	SB_REC_WATER_34 03-AUG-2010
Ammonia-N	.3 MG/L	2.4	ND	0.9	NR
BOD (Biochemical Oxygen Demand)	2 MG/L	ND	ND	2.5	NR
Hexane Extractable Material	1.2 MG/L	2.4	5.0	NR	1.6
Conductivity	10 UMHOS/CM	1610	NR	1450	NR
MBAS (Surfactants)	.03 MG/L	0.2	0.2	0.2	NR
pH (grab)	PH	7.5	7.5	NR	7.2
Total Alkalinity (bicarbonate)	20 MG/L	187	160	141	NR
Total Dissolved Solids	28 MG/L	1060	920	930	NR
Total Suspended Solids	1.4 MG/L	1.5	ND	3.0	NR
Volatile Suspended Solids	1.6 MG/L	ND	ND	1.8	NR
Total Kjeldahl Nitrogen	1.6 MG/L	3.5	1.8	2.0	NR
Turbidity	.13 NTU	0.9	0.8	1.4	NR

Source: Analytes	MDL Units	SB_REC_WATER_34 05-OCT-2010
Ammonia-N	.3 MG/L	ND
BOD (Biochemical Oxygen Demand)	2 MG/L	2.8
Hexane Extractable Material	1.2 MG/L	3.6
Conductivity	10 UMHOS/CM	1470
MBAS (Surfactants)	.03 MG/L	0.1
pH (grab)	PH	7.5
Total Alkalinity (bicarbonate)	20 MG/L	163
Total Dissolved Solids	28 MG/L	912
Total Suspended Solids	1.4 MG/L	ND
Volatile Suspended Solids	1.6 MG/L	ND
Total Kjeldahl Nitrogen	1.6 MG/L	2.2
Turbidity	.13 NTU	0.9

ND= Not Detected

NR= Not Required

SOUTH BAY WATER RECLAMATION PLANT
SB_REC_WATER_34 Reclaimed Water- Annual Averages

Annual 2010

	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron
MDL:	47	2.9	.4	.039	.022	7
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
JANUARY -2010	NR	NR	NR	NR	NR	315
FEBRUARY -2010	126	ND	0.89	67.8	ND	359
MARCH -2010	144	ND	NR	58.4	<0.022	286
APRIL -2010	NR	NR	NR	NR	NR	221
MAY -2010	103	ND	0.74	52.4	ND	361
JUNE -2010	NR	NR	NR	NR	NR	341
JULY -2010	NR	NR	NR	NR	NR	358
AUGUST -2010	321	ND	0.63	47.4	ND	361
SEPTEMBER-2010	NR	NR	NR	NR	NR	313
OCTOBER -2010	144	ND	<0.4	49.4	ND	117
NOVEMBER -2010	NR	NR	NR	NR	NR	341
DECEMBER -2010	NR	NR	NR	NR	NR	323
Annual Average:	168	ND	0.57	55.1	<0.00	308

	Cadmium	Chromium	Copper	Iron	Manganese	Mercury
MDL:	.53	1.2	2	37	.24	.09
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
JANUARY -2010	NR	NR	NR	ND	31.5	NR
FEBRUARY -2010	ND	ND	11.8	94	30.5	ND
MARCH -2010	ND	ND	6.0	94	12.4	NR
APRIL -2010	NR	NR	NR	89	30.0	NR
MAY -2010	ND	3.65	13.9	120	32.8	ND
JUNE -2010	NR	NR	NR	126	22.9	NR
JULY -2010	NR	NR	NR	42	21.3	NR
AUGUST -2010	ND	<1.2	12.0	<37	16.6	ND
SEPTEMBER-2010	NR	NR	NR	ND	17.6	NR
OCTOBER -2010	ND	<1.2	11.5	73	18.2	0.01*
NOVEMBER -2010	NR	NR	NR	ND	28.5	NR
DECEMBER -2010	NR	NR	NR	ND	33.7	NR
Annual Average:	ND	0.73	11.0	53	24.7	0.00

	Nickel	Selenium	Thallium	Chloride	Fluoride	Sulfate
MDL:	.53	.28	3.9	7	.05	9
Units:	UG/L	UG/L	UG/L	MG/L	MG/L	0.5 MG/L
JANUARY -2010	NR	NR	NR	237	0.46	235
FEBRUARY -2010	9.95	0.82	ND	235	0.58	224
MARCH -2010	3.70	NR	ND	245	0.63	222
APRIL -2010	NR	NR	NR	245	0.60	217
MAY -2010	6.90	0.68	ND	248	0.63	203
JUNE -2010	NR	NR	NR	226	0.47	207
JULY -2010	NR	NR	NR	252	0.55	209
AUGUST -2010	4.51	0.67	ND	238	0.53	211
SEPTEMBER-2010	NR	NR	NR	251	0.59	199
OCTOBER -2010	4.34	0.44	ND	229	0.50	191
NOVEMBER -2010	NR	NR	NR	273	0.53	200
DECEMBER -2010	NR	NR	NR	286	0.55	197
Annual Average:	5.88	0.65	ND	247	0.55	210

* MDL= 0.005

ND= Not Detected

NA= Not Analyzed

NS= Not Sampled

SOUTH BAY WATER RECLAMATION PLANT
SB_REC_WATER_34 Reclaimed Water- Annual Averages

Annual 2010

	Total Cyanides (surfactants)	MBAS	Percent Sodium	Calcium	Magnesium	Potassium
MDL:	.002	.03		.04	.1	.3
Units:	MG/L	MG/L	Calculated %	MG/L	MG/L	MG/L
=====						
JANUARY -2010	NR	0.16	54.9	83.0	32.0	20.7
FEBRUARY -2010	0.0022	0.21	54.1	81.6	33.8	18.5
MARCH -2010	NR	0.19	55.8	70.6	28.6	16.3
APRIL -2010	NR	0.17	53.4	83.3	31.3	18.7
MAY -2010	0.0023	0.20	56.6	73.4	30.4	19.6
JUNE -2010	NR	0.20	55.2	78.2	30.9	19.5
JULY -2010	NR	0.50	55.6	76.0	32.3	20.7
AUGUST -2010	0.0032	0.17	54.8	71.0	29.3	19.5
SEPTEMBER-2010	NR	0.16	56.1	73.9	33.0	21.0
OCTOBER -2010	0.0037	0.11	57.1	69.5	30.3	19.5
NOVEMBER -2010	NR	0.19	56.6	74.3	34.5	20.0
DECEMBER -2010	NR	0.16	55.8	78.2	36.5	19.4
=====						
Annual Average:	0.0029	0.20	55.5	76.1	31.9	19.5

	Sodium	Calcium Hardness	Magnesium Hardness	Total Hardness	Total Dissolved Solids	Lithium
MDL:	1	.04	.1	.1	28	.002
Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
=====						
JANUARY -2010	204	208	131	339	1020	0.04
FEBRUARY -2010	199	204	139	343	998	0.04
MARCH -2010	182	177	117	294	1000	0.03
APRIL -2010	190	208	128	336	1010	0.05
MAY -2010	200	184	125	309	960	0.03
JUNE -2010	197	196	127	323	971	0.04
JULY -2010	201	190	132	322	958	0.03
AUGUST -2010	180	178	120	298	937	0.04
SEPTEMBER-2010	204	185	135	320	957	0.03
OCTOBER -2010	198	174	124	298	933	0.03
NOVEMBER -2010	212	186	141	327	981	0.03
DECEMBER -2010	215	196	150	346	983	0.04
=====						
Annual Average:	199	191	131	321	976	0.04

	Cobalt	Molybdenum	Vanadium	Nitrate	Ortho Phosphate	Total Alkalinity (bicarbonate)
MDL:	.85	.89	.64	.04	.2	20
Units:	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L
=====						
JANUARY -2010	NR	NR	NR	21.3	3.44	210
FEBRUARY -2010	ND	3.23	1.36	24.0	6.03	187
MARCH -2010	ND	4.13	1.87	24.7	5.28	167
APRIL -2010	NR	NR	NR	25.0	6.22	182
MAY -2010	ND	6.43	<0.64	29.3	8.00	160
JUNE -2010	NR	NR	NR	32.1	5.04	160
JULY -2010	NR	NR	NR	28.7	7.41	171
AUGUST -2010	ND	3.17	1.08	27.6	5.38	141
SEPTEMBER-2010	NR	NR	NR	27.3	1.28	169
OCTOBER -2010	ND	3.17	ND	30.1	3.03	163
NOVEMBER -2010	NR	NR	NR	21.9	0.66	189
DECEMBER -2010	NR	NR	NR	16.3	2.85	185
=====						
Annual Average:	ND	4.03	0.88	25.7	4.55	174

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

SOUTH BAY WATER RECLAMATION PLANT
Reclaimed Water

Annual 2010

Source:		SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34
Date:		02-FEB-2010	04-MAY-2010	02-AUG-2010	05-OCT-2010
Sample ID:	MDL Units	P504543	P515535	P525103	P533650
=====	=====	=====	=====	=====	=====
Aluminum	47 UG/L	126	103	321	144
Antimony	2.9 UG/L	ND	ND	ND	ND
Arsenic	.4 UG/L	0.89	0.74	0.63	<0.40
Barium	.039 UG/L	68	52	47	49
Beryllium	.022 UG/L	ND	ND	ND	ND
Boron	7 UG/L	359	361	361	117
Cadmium	.53 UG/L	ND	ND	ND	ND
Chromium	1.2 UG/L	ND	3.65	<1.20	<1.20
Cobalt	.85 UG/L	ND	ND	ND	ND
Copper	2 UG/L	12	14	12	12
Iron	37 UG/L	94	120	<37	73
Lead	2 UG/L	ND	ND	ND	ND
Manganese	.24 UG/L	30.50	32.80	16.60	18.20
Mercury	.09 UG/L	ND	ND	ND	0.01
Molybdenum	.89 UG/L	3.23	6.43	3.17	3.17
Nickel	.53 UG/L	9.95	6.90	4.51	4.34
Selenium	.28 UG/L	0.82	0.68	0.67	0.44
Silver	.4 UG/L	ND	ND	ND	ND
Thallium	3.9 UG/L	ND	ND	ND	ND
Vanadium	.64 UG/L	1.36	<0.64	1.08	ND
Zinc	2.5 UG/L	29	29	32	28
Bromide	.1 MG/L	0.35	0.45	0.31	0.24
Chloride	7 MG/L	254	253	219	242
Fluoride	.05 MG/L	0.62	0.49	0.47	0.47
Nitrate	.04 MG/L	26.1	31.1	29.1	29.2
Ortho Phosphate	.2 MG/L	4.1	8.3	7.2	4.8
Sulfate	9 MG/L	233	186	217	194
Calcium	.04 MG/L	82	73	71	70
Lithium	.002 MG/L	0.04	0.03	0.04	0.03
Magnesium	.1 MG/L	34	30	29	30
Potassium	.3 MG/L	19	20	20	20
Sodium	1 MG/L	199	200	180	198
Calcium Hardness	.1 MG/L	204	183	177	174
Magnesium Hardness	.4 MG/L	139	125	121	125
Total Hardness	.4 MG/L	343	308	298	299
Cyanides, Total	.002 MG/L	0.002	0.002	0.003	0.004
Sulfides-Total	.18 MG/L	ND	ND	ND	ND
Total Kjeldahl Nitrogen	1.6 MG/L	3.5	1.8	2.0	2.2
Ammonia-N	.3 MG/L	2.4	ND	0.9	ND
Percent Sodium	PERCENT	54.1	56.6	54.8	57.1
Total Organic Carbon	MG/L	10.5	10.5	11.0	13.0

ND= Not Detected
NR= Not Required

SOUTH BAY WATER RECLAMATION PLANT
QUARTERLY SLUDGE PROJECT

Radioactivity

Annual 2010

Source	Sample Date	Sample ID	Gross Alpha Radiation	Gross Beta Radiation
=====	=====	=====	=====	=====
SB_REC_WATER_34	02-FEB-2010	P504543	3.5 ± 1.9	17.6 ± 4.3
SB_REC_WATER_34	04-MAY-2010	P515535	-0.3 ± 2.2	17.5 ± 6.4
SB_REC_WATER_34	02-AUG-2010	P525103	1.6 ± 1.1	20.2 ± 4.2
SB_REC_WATER_34	05-OCT-2010	P533650	2.6 ± 3.0	22.0 ± 7.3

Units in picocuries per Liter (pCi/L)

South Bay Water Reclamation Plant
Reclaimed Water

Annual Report 2010

Chlorinated Pesticides

Analyte	MDL	Units	02-FEB-2010	04-MAY-2010	02-AUG-2010	05-OCT-2010
			P504543	P515535	P525103	P533650
Aldrin	7	NG/L	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA
Cis Nonachlor	3	NG/L	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND
Heptachlors	8	NG/L	0	0	0	0
Endosulfans	6	NG/L	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0
Chlordane + related cmpds.	6	NG/L	0	0	0	0
DDT and derivatives	8	NG/L	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	0
Aldrin + Dieldrin	7	NG/L	0	0	0	0
Chlorinated Hydrocarbons	4000	NG/L	0	0	0	0

ND= Not Detected

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
Reclaimed Water
OrganoPhosphorous
Annual 2010

Analyte	MDL Units	04-MAY-2010	05-OCT-2010
		P515535	P533650
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	ND	ND
Dibrom	.2 UG/L	ND	NR
Ethoprop	.04 UG/L	ND	NR
Phorate	.04 UG/L	ND	NR
Sulfotepp	.04 UG/L	ND	NR
Disulfoton	.02 UG/L	ND	ND
Dimethoate	.04 UG/L	ND	ND
Ronnel	.03 UG/L	ND	NR
TrichloroNRte	.04 UG/L	ND	NR
Merphos	.09 UG/L	ND	NR
Dichlofenthion	.03 UG/L	ND	NR
Tokuthion	.06 UG/L	ND	NR
Stirophos	.03 UG/L	ND	ND
Bolstar	.07 UG/L	ND	NR
Fensulfothion	.07 UG/L	ND	NR
EPN	.09 UG/L	ND	NR
Coumaphos	.15 UG/L	ND	ND
Mevinphos, e isomer	.05 UG/L	ND	NR
Mevinphos, z isomer	.3 UG/L	ND	NR
Chlorpyrifos	.03 UG/L	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.000	0.000
Demeton -O, -S	.15 UG/L	0.000	0.000
Total Organophosphorus Pesticides	.3 UG/L	0.000	0.000

NA= Not Analyzed
ND= Not Detected

South Bay Water Reclamation Plant
 Reclaimed Water
 Organo-Tins
 Annual 2010

Analyte	MDL	Units	SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34
			02-FEB-2010	04-MAY-2010	02-AUG-2010	05-OCT-2010
			P504543	P515535	P525103	P533650
Tributyltin	2	UG/L	ND	ND	ND	ND
Dibutyltin	7	UG/L	ND	ND	ND	ND
Monobutyltin	16	UG/L	ND	ND	ND	ND

ND= Not Detected

South Bay Water Reclamation Plant

Annual 2010

Phenols

Analyte	MDL	Units	02-FEB-2010	04-MAY-2010	02-AUG-2010	05-OCT-2010
			P504543	P515535	P525103	P533650
2-chlorophenol	1.32	UG/L	ND	ND	ND	ND
4-chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND
2,4-dichlorophenol	1.01	UG/L	ND	ND	ND	ND
2,4-dimethylphenol	2.01	UG/L	ND	ND	ND	ND
2,4-dinitrophenol	2.16	UG/L	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND
2-nitrophenol	1.55	UG/L	ND	ND	ND	ND
4-nitrophenol	1.14	UG/L	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND
Phenol	1.76	UG/L	ND	ND	ND	ND
2,4,6-trichlorophenol	1.65	UG/L	ND	ND	ND	ND
Total Chlorinated Phenols	1.67	UG/L	0.00	0.00	0.00	0.00
Total Non-Chlorinated Phenols	2.16	UG/L	0.00	0.00	0.00	0.00
Total Phenols	2.16	UG/L	0.00	0.00	0.00	0.00
2-methylphenol	2.15	UG/L	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA
4-methylphenol(3-MP is unresolved)	2.11	UG/L	ND	ND	ND	ND
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND

ND= not detected

NA= not analyzed

South Bay Water Reclamation Plant

Annual 2010

Base/Neutrals

Analyte	MDL	Units	02-FEB-2010	04-MAY-2010	02-AUG-2010	05-OCT-2010
			P504543	P515535	P525103	P533650
Acenaphthene	1.8	UG/L	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND
Benzo[A]anthracene	1.1	UG/L	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	1.35	UG/L	ND	ND	ND	ND
Benzo[K]fluoranthene	1.49	UG/L	ND	ND	ND	ND
Benzo[A]pyrene	1.25	UG/L	ND	ND	ND	ND
Benzo[G,H,I]perylene	1.09	UG/L	ND	ND	ND	ND
4-bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.01	UG/L	ND	ND	ND	ND
bis(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND
4-chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND
2-chloronaphthalene	1.87	UG/L	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND
Dibenzo(A,H)anthracene	1.01	UG/L	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	ND	ND	ND
Diethyl phthalate	3.05	UG/L	ND	ND	ND	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND
3,3-dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND
2,4-dinitrotoluene	1.36	UG/L	ND	ND	ND	ND
2,6-dinitrotoluene	1.53	UG/L	ND	ND	ND	ND
1,2-diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0
Base/Neutral Compounds	8.96	UG/L	0.0	0.0	0.0	0.0
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND
2,6-dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND
1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND
1-methylphenanthrene	1.46	UG/L	ND	ND	ND	ND
2-methylnaphthalene	2.14	UG/L	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND

ND= Not Detected

SOUTH BAY WASTEWATER TREATMENT PLANT
Annual 2010

Annual Priority Pollutants Purgeable Compounds, EPA Method 624 Report

Analyte	MDL	Units	SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34
			02-FEB-2010 P504546	04-MAY-2010 P515538	03-AUG-2010 P525106	05-OCT-2010 P533653
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND
Chloromethane	.5	UG/L	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND
Acrolein	1.3	UG/L	ND	ND	ND	ND
1,1-dichloroethane	.4	UG/L	ND	ND	ND	ND
Methylene chloride	.3	UG/L	0.7	0.7	3.9	355
trans-1,2-dichloroethene	.6	UG/L	ND	ND	ND	ND
1,1-dichloroethene	.4	UG/L	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND
Chloroform	.2	UG/L	1.5	1.5	1.4	9.8
1,1,1-trichloroethane	.4	UG/L	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND
1,2-dichloroethane	.5	UG/L	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	ND
1,2-dichloropropane	.3	UG/L	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	ND	ND	ND	4.9
2-chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND
cis-1,3-dichloropropene	.3	UG/L	ND	ND	ND	ND
Toluene	.4	UG/L	ND	ND	ND	ND
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND
1,1,2-trichloroethane	.5	UG/L	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND
Dibromochloromethane	.6	UG/L	ND	ND	ND	1.8
Chlorobenzene	.4	UG/L	ND	ND	ND	ND
Ethylbenzene	.3	UG/L	ND	ND	ND	ND
Bromoform	.5	UG/L	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	.5	UG/L	ND	ND	ND	ND
1,3-dichlorobenzene	.5	UG/L	ND	ND	ND	ND
1,4-dichlorobenzene	.4	UG/L	ND	ND	ND	ND
1,2-dichlorobenzene	.4	UG/L	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7	UG/L	0.0	0.0	0.0	0.0
Total Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0
Total Chloromethanes	.5	UG/L	2.2	2.2	5.3	364.8
Purgeable Compounds	1.3	UG/L	2.2	2.2	5.3	371.5
Methyl Iodide	.6	UG/L	ND	ND	ND	ND
Carbon disulfide	.6	UG/L	ND	ND	ND	ND
Acetone	4.5	UG/L	ND	ND	4.8	ND

Additional analytes determined

Allyl chloride	.6	UG/L	ND	ND	ND	ND
Methyl tert-butyl ether	.4	UG/L	ND	ND	ND	ND
Chloroprene	.4	UG/L	ND	ND	ND	ND
1,2-dibromoethane	.3	UG/L	ND	ND	ND	ND
2-butanone	6.3	UG/L	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND
2-nitropropane	12	UG/L	ND	ND	ND	ND
4-methyl-2-pentanone	1.3	UG/L	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND
Styrene	.3	UG/L	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	ND	ND
1,2,4-trichlorobenzene	.7	UG/L	ND	ND	ND	ND

ND= not detected

South Bay Water Reclamation Plant
Reclaimed Water - Benzidines

Annual 2010

Source:		SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34
Date:	MDL Units	02-FEB-2010	04-MAY-2010	02-AUG-2010	05-OCT-2010
		P504543	P515535	P525103	P533650
=====	=====	=====	=====	=====	=====
3,3-dichlorobenzidine	2.44 UG/L	ND	ND	ND	ND
Benzidine	1.52 UG/L	ND	ND	ND	ND

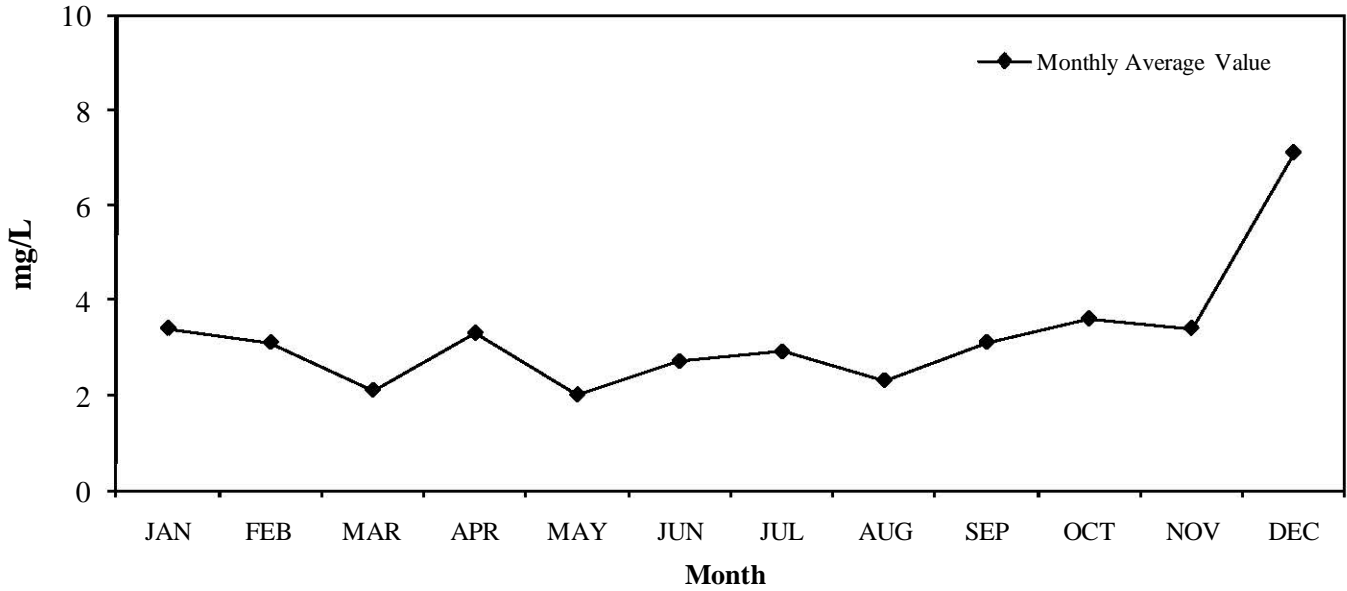
ND= Not Detected

B. Reclaimed Water Graphs

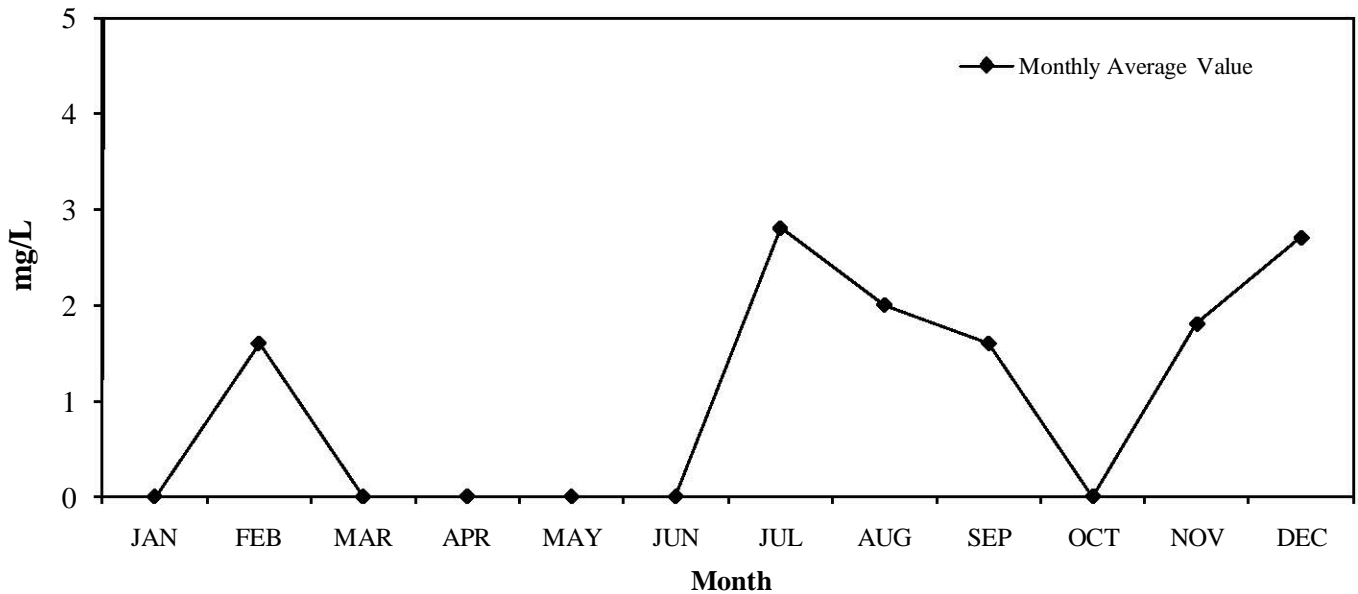
Graphs of monthly averages for permit parameters with measurable concentration averages.

Please note that many of the graphs are on expanded scales. That is, they normally don't go to zero concentrations but show, in magnified scale, that range of concentrations where variation takes place. This makes differences and some trends obvious that might normally not be noticed. However, it also provides the temptation to interpret minor changes or trends as being of more significance than they are. Frequent reference to the scales and the actual differences in concentrations is therefore necessary.

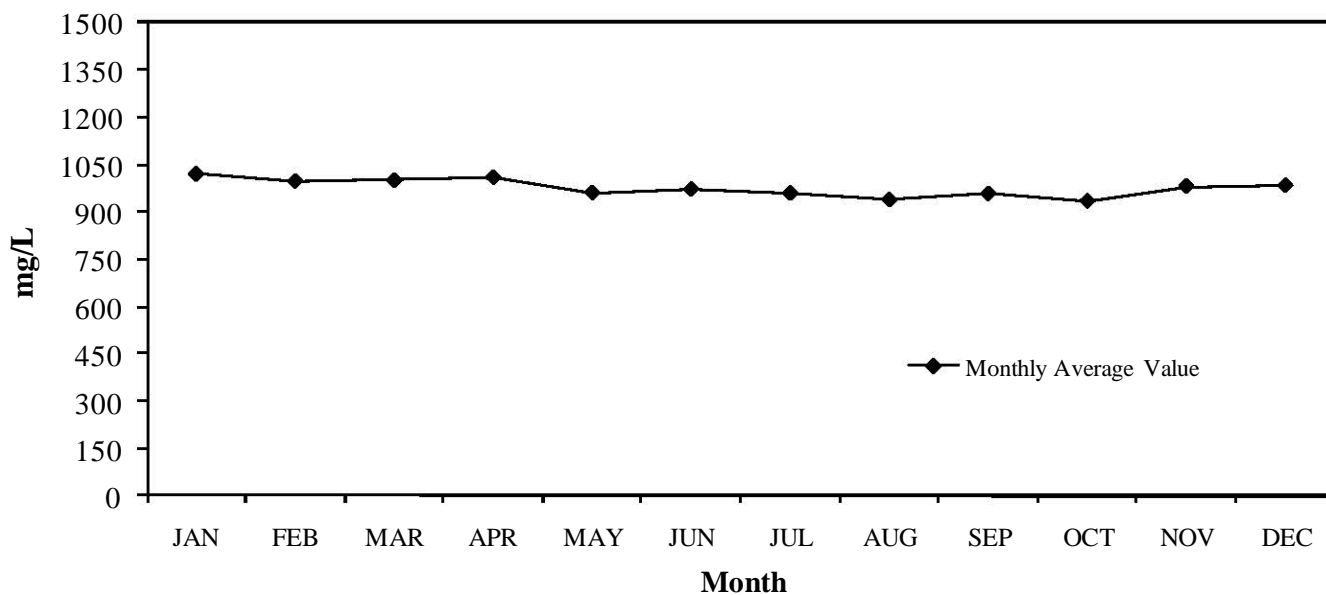
2010 South Bay Reclaimed Water
Biological Oxygen Demand



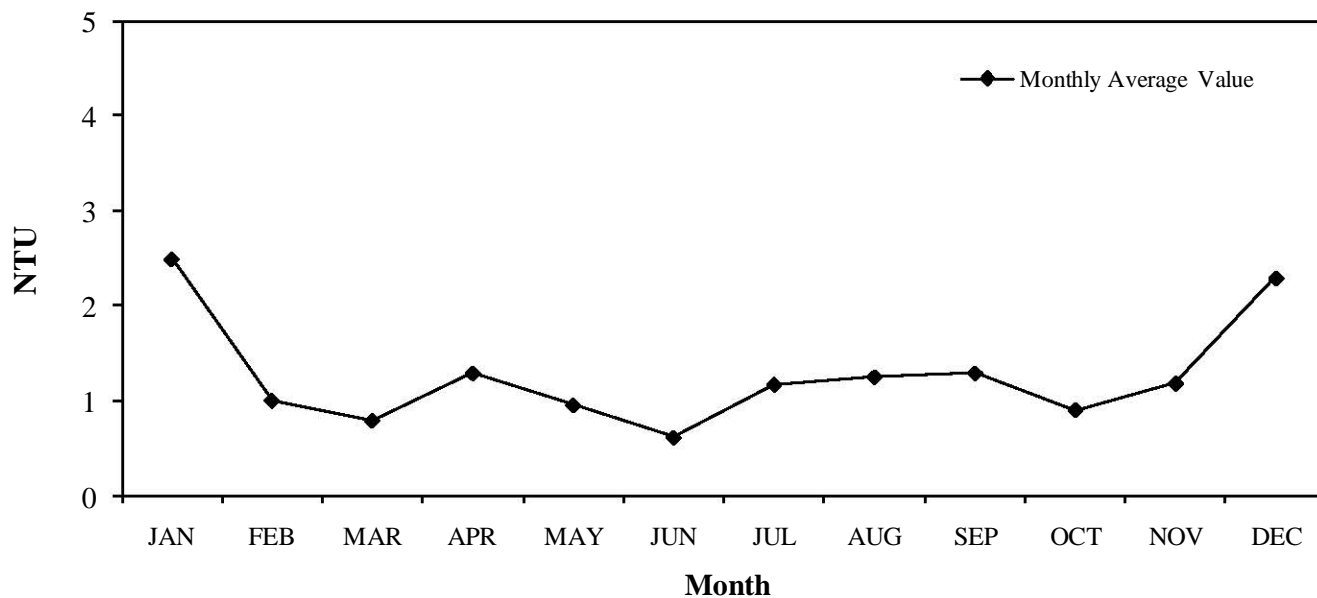
2010 South Bay Reclaimed Water
Total Suspended Solids



2010 South Bay Reclaimed Water
Total Dissolved Solids

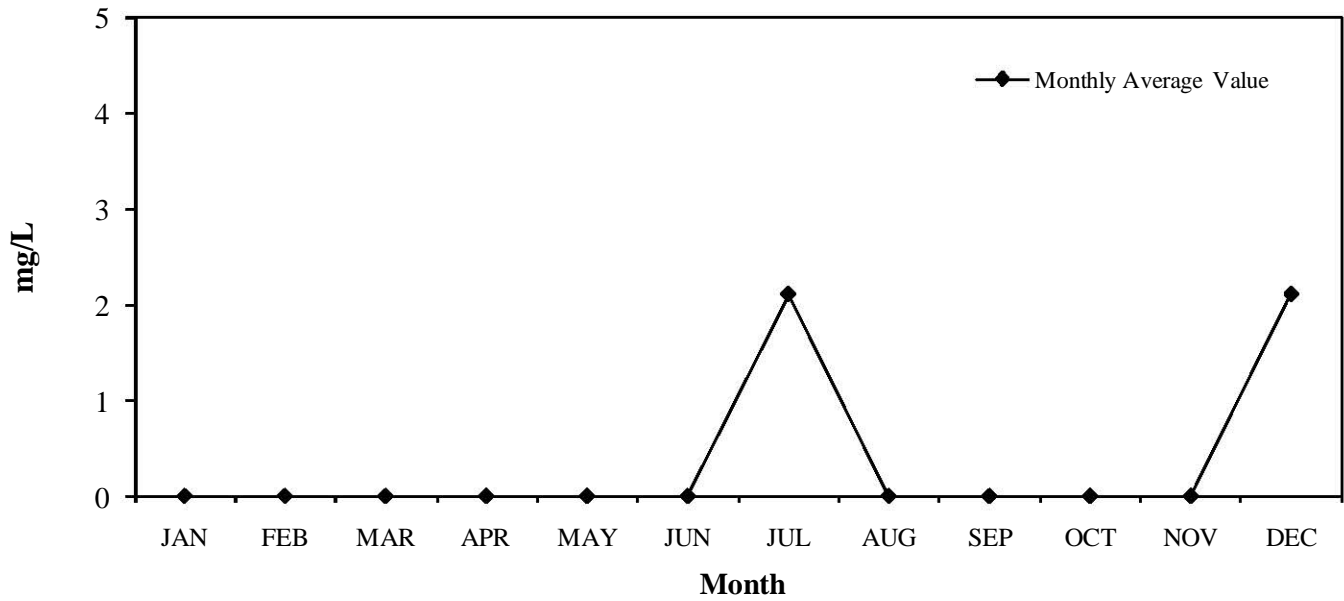


2010 South Bay Reclaimed Water
Turbidity

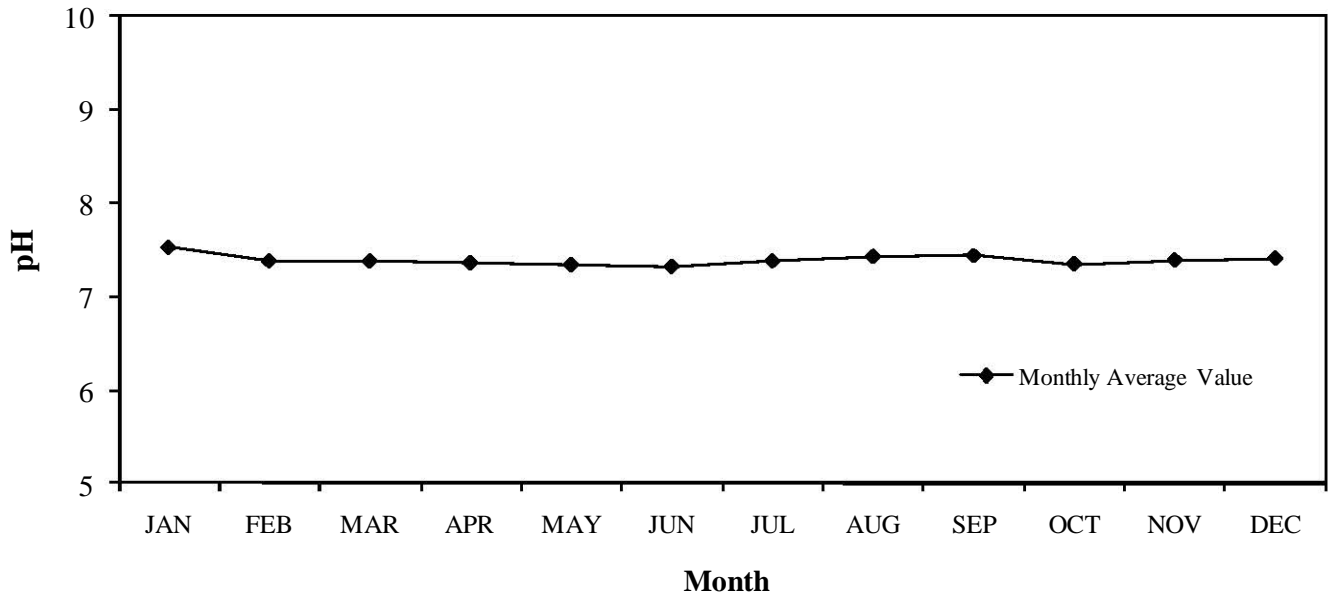


Not for reclaimed turbidity compliance, see monthly reports for compliance monitoring.

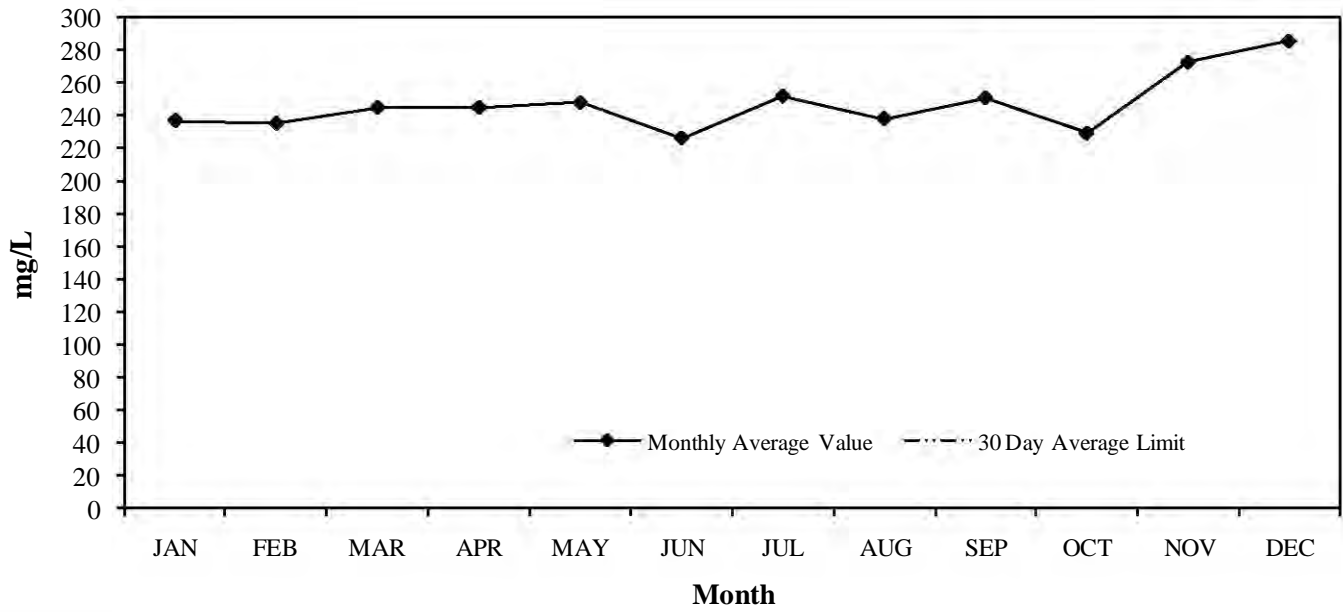
2010 South Bay Reclaimed Water
Volatile Suspended Solids



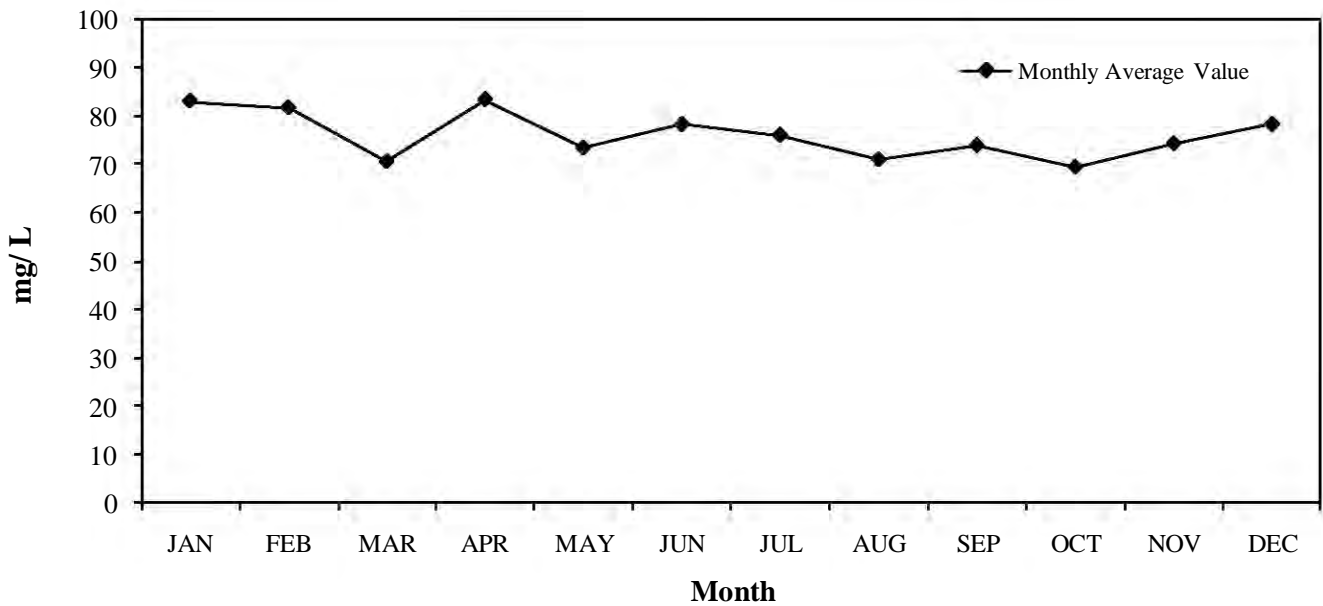
2010 South Bay Reclaimed Water
pH



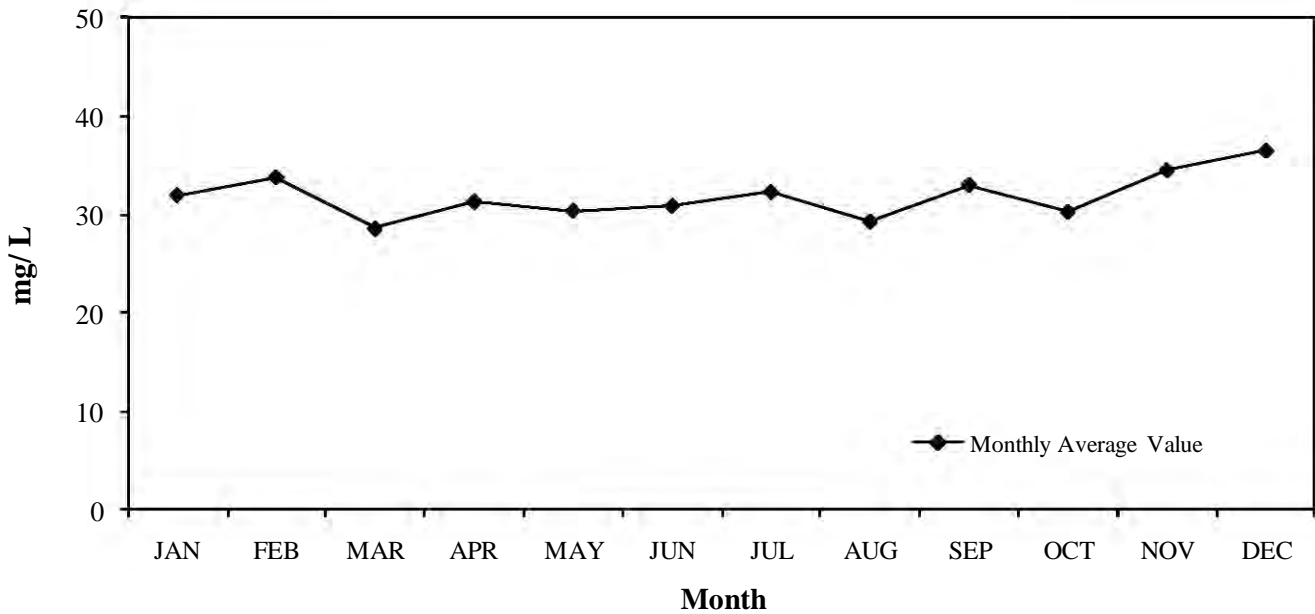
2010 South Bay Reclaimed Water
Chloride



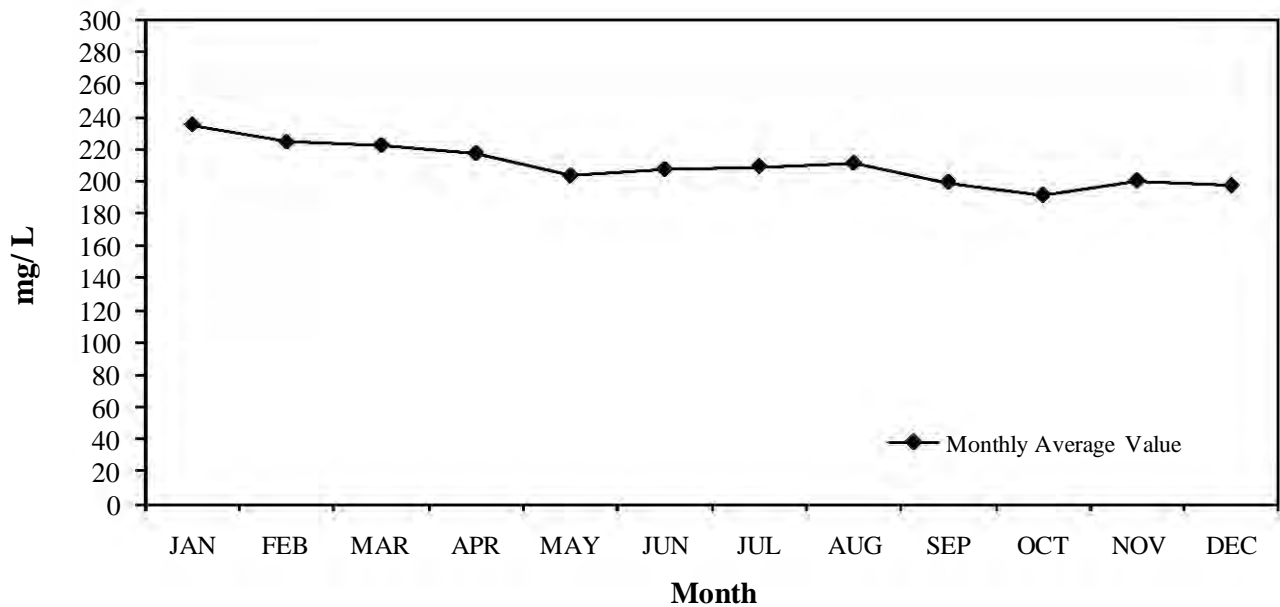
2010 South Bay Reclaimed Water
Calcium



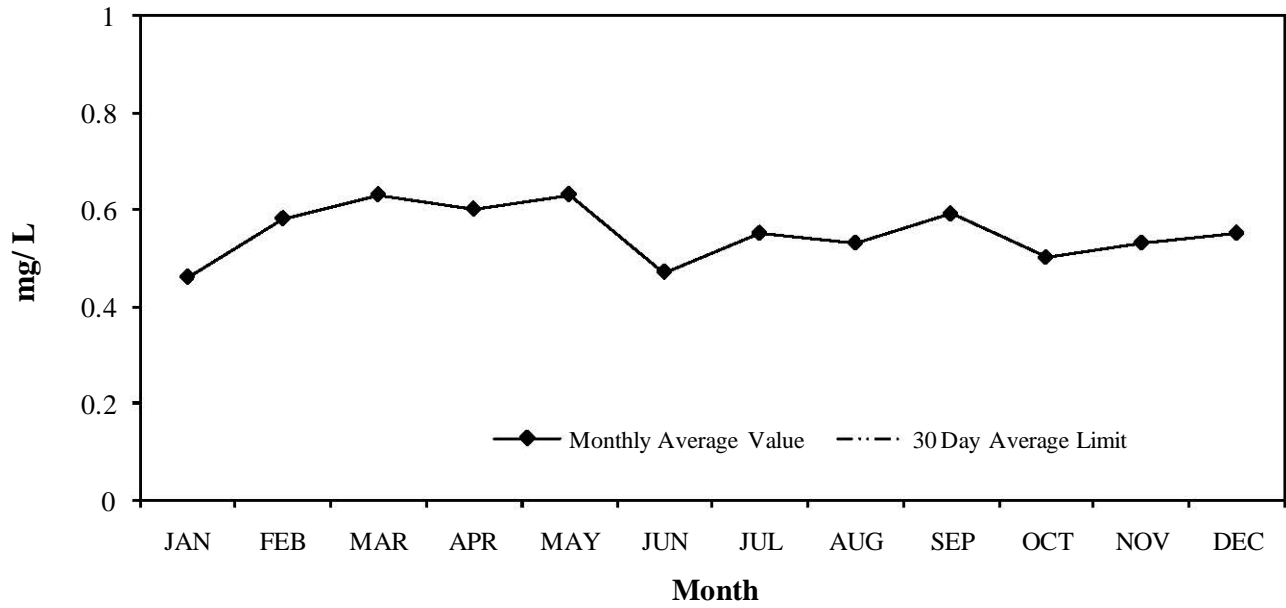
2010 South Bay Reclaimed Water
Magnesium



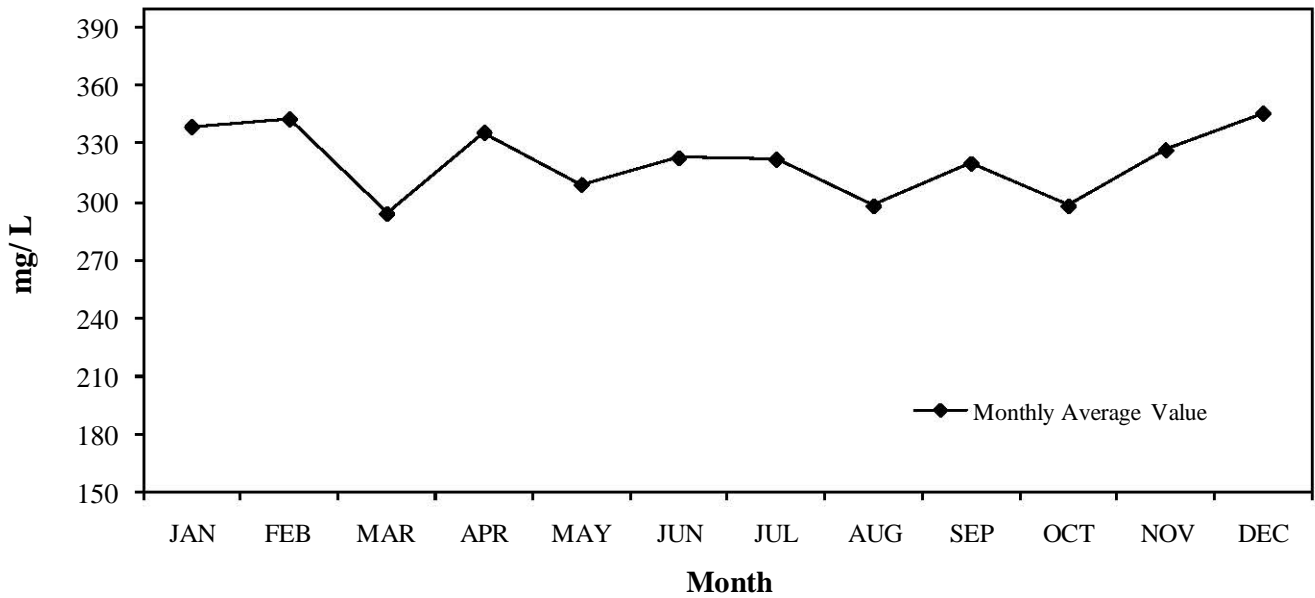
2010 South Bay Reclaimed Water
Sulfate



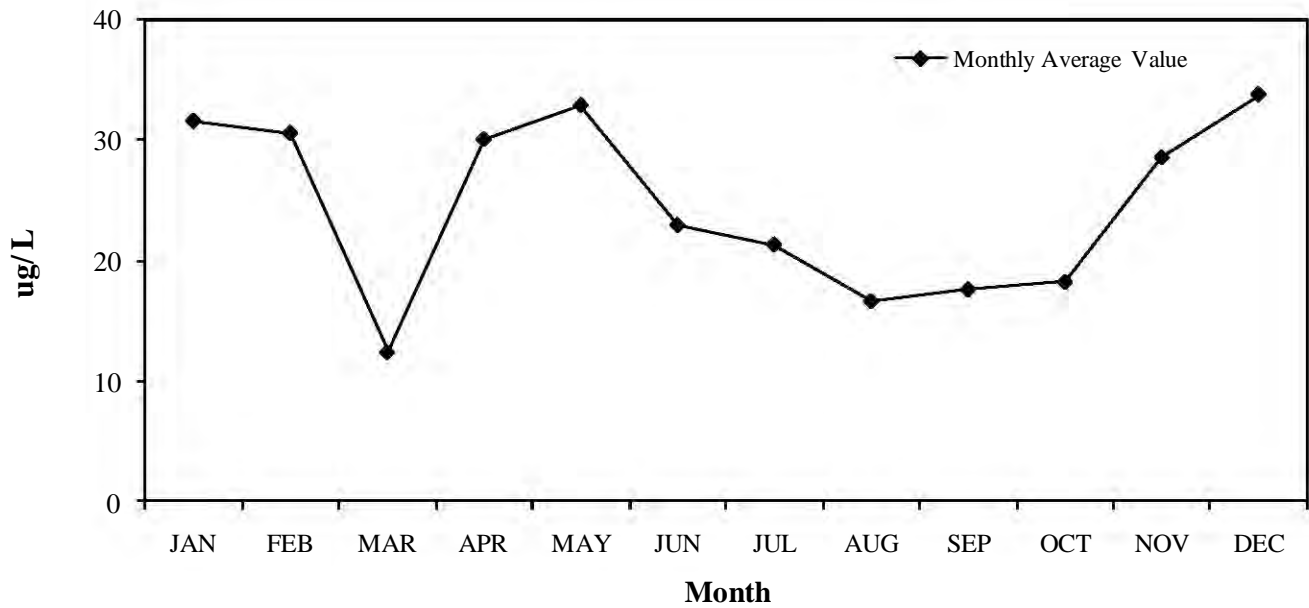
2010 South Bay Reclaimed Water
Fluoride



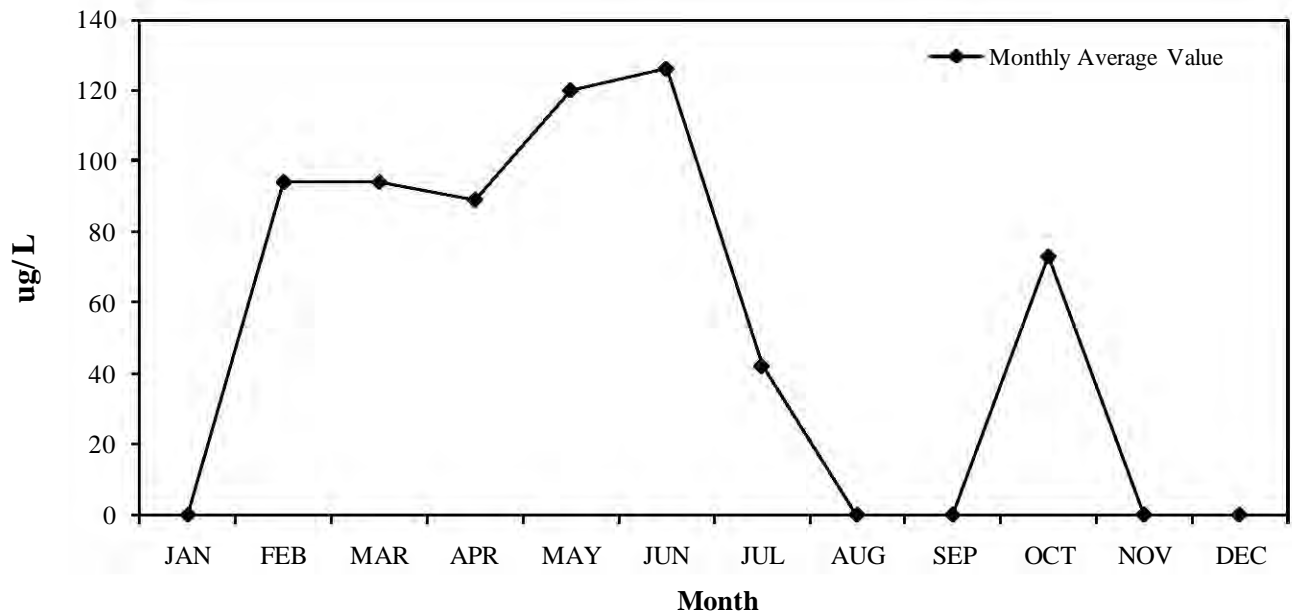
2010 South Bay Reclaimed Water
Total Hardness



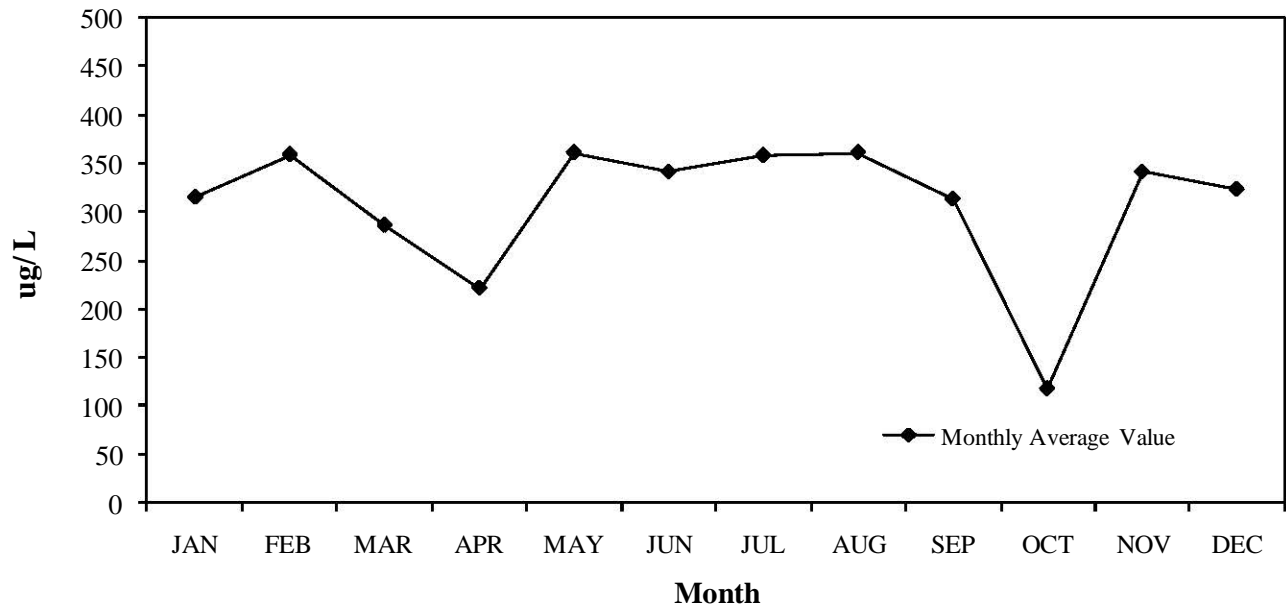
2010 South Bay Reclaimed Water
Manganese



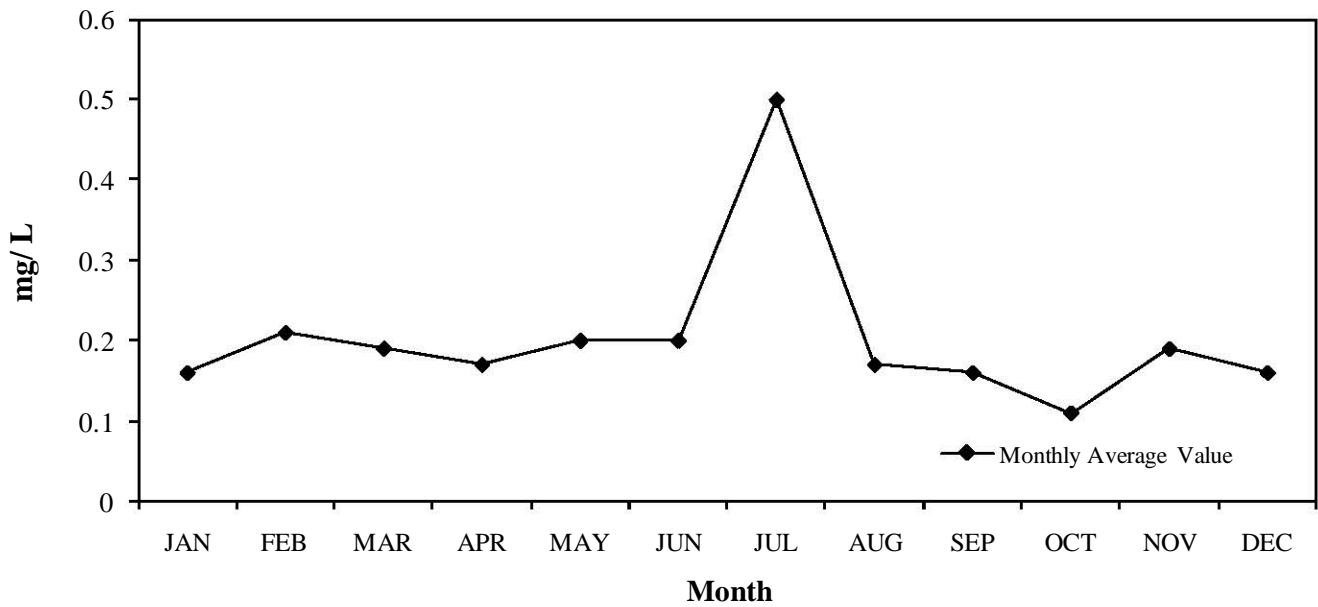
2010 South Bay Reclaimed Water
Iron



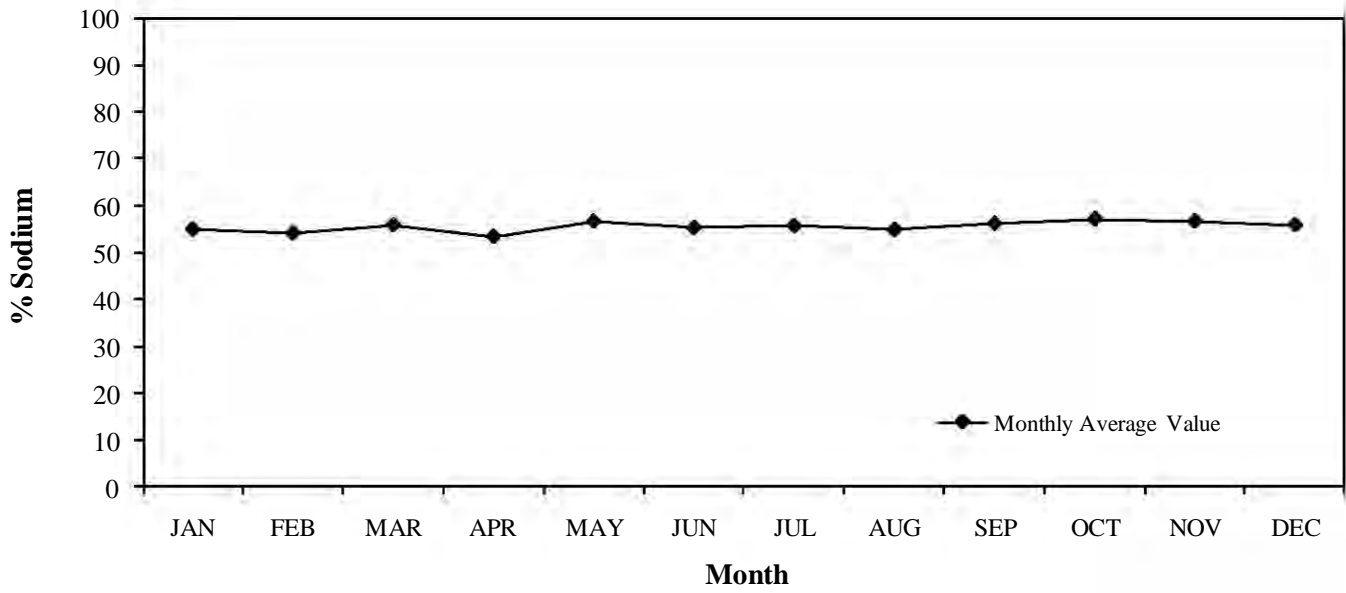
2010 South Bay Reclaimed Water
Boron



2010 South Bay Reclaimed Water
MBAS



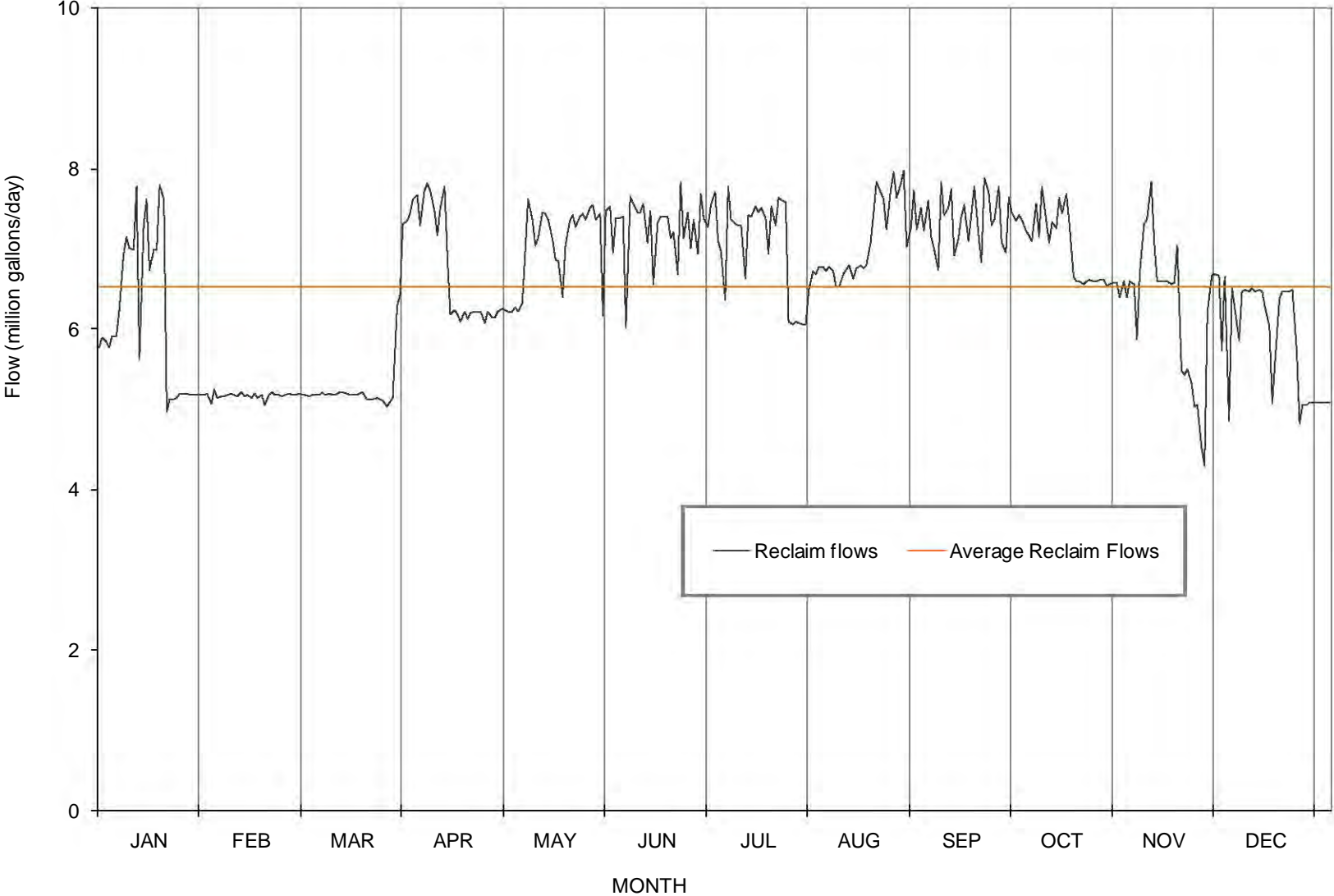
2010 South Bay Reclaimed Water
Percent Sodium



C. Daily Values of Selected Parameters.

Daily values of selected parameters (e.g. TSS, Flow, BOD, etc.) are tabulated and presented graphically; statistical summary information is provided.

South Bay Wastewater Reclamation Plant 2010 Reclaimed Production Flows



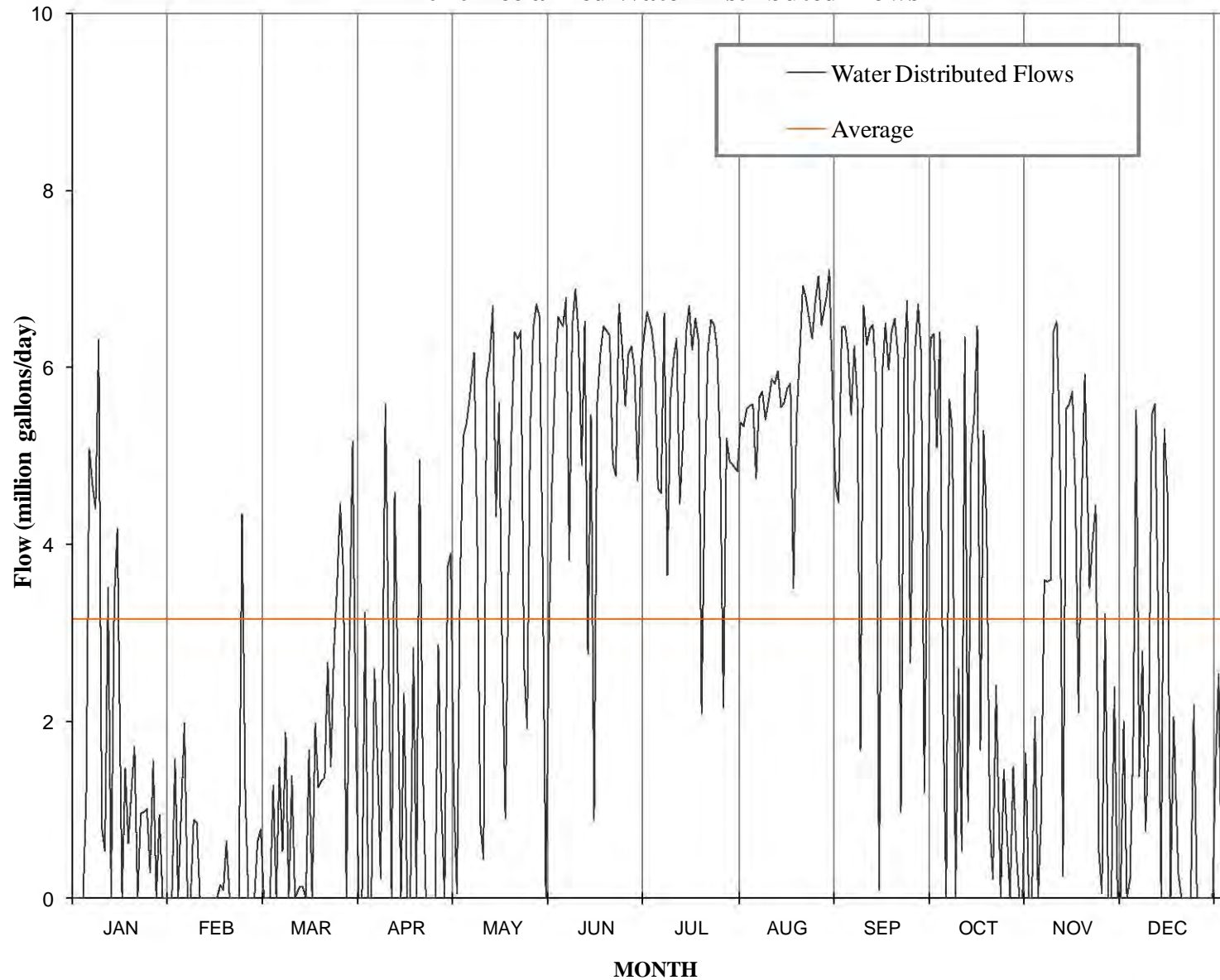
Daily Flows - Reclaimed Water Produced in 2010

Days	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	5.77	5.17	5.19	7.32	6.23	7.53	7.55	6.69	7.50	7.36	6.40	4.85	
2	5.90	5.19	5.17	7.34	6.22	6.95	7.71	6.77	7.22	7.22	6.60	6.53	
3	5.85	5.07	5.17	7.44	6.22	7.39	7.09	6.77	7.59	7.17	6.56	6.25	
4	5.77	5.25	5.16	7.62	6.28	7.38	6.97	6.72	7.15	7.09	5.88	5.86	
5	5.92	5.15	5.18	7.67	6.22	7.41	6.36	6.78	7.01	7.56	6.71	6.46	
6	5.92	5.16	5.18	7.29	6.33	6.02	7.78	6.72	6.74	7.15	7.31	6.49	
7	6.23	5.16	5.18	7.73	6.96	7.66	7.37	6.53	7.83	7.77	7.36	6.46	
8	6.93	5.18	5.21	7.81	7.62	7.56	7.31	6.53	7.42	7.35	7.84	6.51	
9	7.15	5.19	5.17	7.72	7.37	7.45	7.29	6.69	7.51	7.08	7.08	6.47	
10	7.00	5.17	5.20	7.48	7.05	7.45	7.30	6.73	7.75	7.33	6.59	6.48	
11	6.99	5.16	5.18	7.17	7.13	7.57	6.63	6.79	6.91	7.26	6.60	6.47	
12	7.78	5.21	5.18	7.51	7.46	7.08	7.42	6.63	7.13	7.64	6.60	6.27	
13	5.63	5.16	5.21	7.77	7.44	7.48	7.40	6.76	7.40	7.44	6.59	6.03	
14	7.31	5.17	5.21	6.89	7.36	6.56	7.52	6.79	7.54	7.68	6.56	5.07	
15	7.61	5.15	5.19	6.18	7.12	7.33	7.45	6.75	7.09	7.33	6.58	5.61	
16	6.73	5.19	5.17	6.23	6.87	7.41	7.50	6.80	7.43	6.64	7.04	6.38	
17	6.98	5.14	5.17	6.18	6.85	7.40	7.39	7.07	7.78	6.60	5.48	6.47	
18	6.99	5.17	5.17	6.10	6.40	7.40	6.94	7.43	7.17	6.60	5.43	6.47	
19	7.80	5.06	5.19	6.21	7.04	7.13	7.52	7.83	6.83	6.55	5.50	6.47	
20	7.62	5.17	5.21	6.13	7.34	7.20	7.29	7.70	7.88	6.59	5.33	6.48	
21	4.96	5.21	5.12	6.20	7.42	6.69	7.64	7.61	7.71	6.61	5.03	5.73	
22	5.13	5.18	5.13	6.21	7.27	7.83	7.59	7.24	7.29	6.59	5.05	4.82	
23	5.13	5.18	5.12	6.21	7.40	7.14	7.58	7.75	7.37	6.59	4.52	5.06	
24	5.15	5.16	5.15	6.21	7.44	7.45	6.10	7.95	7.78	6.61	4.30	5.05	
25	5.19	5.17	5.13	6.07	7.36	7.00	6.06	7.63	7.08	6.61	6.21	5.09	
26	5.19	5.19	5.10	6.22	7.50	7.37	6.09	7.82	6.96	6.54	6.66	5.08	
27	5.19	5.18	5.04	6.14	7.55	6.94	6.07	7.97	7.64	6.56	6.69	5.09	
28	5.17	5.17	5.08	6.15	7.36	7.68	6.06	7.02	7.45	6.57	6.67	5.09	
29	5.18		5.15	6.22	7.44	7.39	6.06	7.26	7.35	6.57	5.73	5.08	
30	5.18		6.29	6.25	6.17	7.28	6.48	7.72	7.42	6.40	6.65	5.08	
31	5.17		6.41		7.47		6.72	7.24		6.59		5.08	Annual Summary
Average	6.15	5.17	5.24	6.79	7.03	7.27	7.04	7.12	7.36	6.96	6.25	5.82	6.52
Minimum	4.96	5.06	5.04	6.07	6.17	6.02	6.06	6.53	6.74	6.40	4.30	4.82	4.30
Maximum	7.80	5.25	6.41	7.81	7.62	7.83	7.78	7.97	7.88	7.77	7.84	6.53	7.97
Total	191	145	162	204	218	218	218	221	221	216	188	180	2381

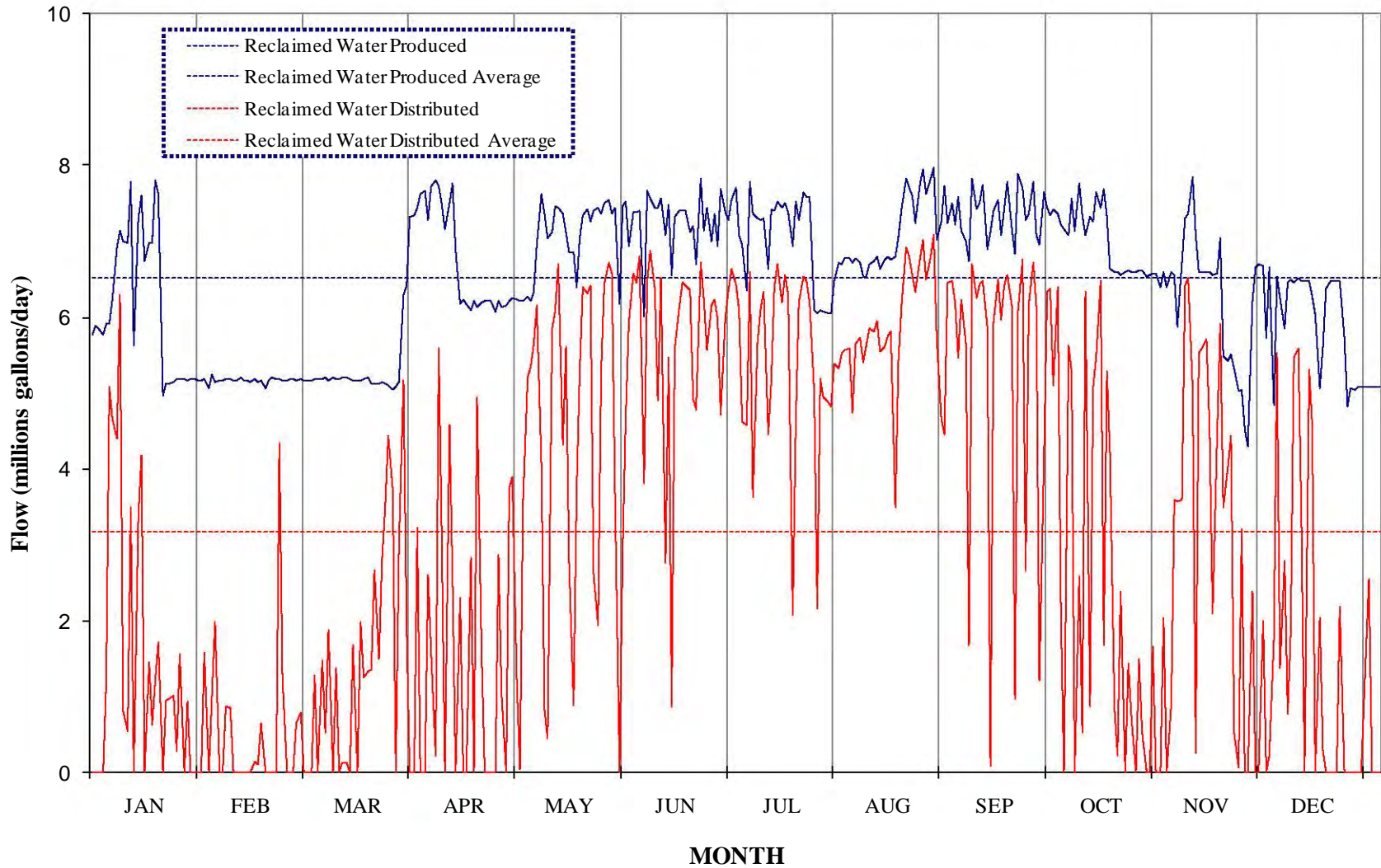
Daily Flows - Reclaimed Water Distributed in 2010

Days	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.00	0.00	0.78	0.00	1.17	4.69	6.63	5.53	6.47	6.40	0.00	1.75	
2	0.00	1.57	0.00	0.00	0.05	5.93	6.43	5.57	6.19	2.15	0.90	5.52	
3	0.00	0.00	0.00	3.23	3.57	6.57	6.09	5.59	5.46	0.00	3.60	1.37	
4	0.00	1.01	0.00	0.00	5.21	6.46	4.63	4.74	6.23	5.63	3.58	2.78	
5	1.21	1.98	1.28	0.00	5.35	6.79	4.58	5.66	5.64	5.26	3.59	0.77	
6	5.08	0.00	0.00	2.60	5.64	3.82	6.60	5.73	1.67	0.00	6.41	1.87	
7	4.67	0.00	1.48	1.57	6.16	6.47	3.64	5.41	6.69	2.59	6.52	5.46	
8	4.40	0.88	0.53	0.22	4.05	6.88	5.66	5.62	6.25	0.53	5.05	5.58	
9	6.30	0.85	1.87	5.58	0.84	6.38	6.09	5.86	6.43	6.34	0.26	3.32	
10	0.80	0.00	0.00	3.04	0.45	4.90	6.33	5.82	6.48	0.87	5.53	0.00	
11	0.54	0.00	1.38	0.00	5.86	6.51	4.46	5.96	5.87	5.06	5.58	5.31	
12	3.50	0.00	0.00	4.58	6.09	2.76	5.17	5.55	0.09	5.46	5.72	4.58	
13	0.00	0.00	0.13	2.55	6.70	5.47	6.39	5.61	5.93	6.47	4.55	0.00	
14	3.38	0.00	0.13	0.00	4.32	0.88	6.70	5.76	6.50	1.68	2.10	2.04	
15	4.17	0.00	0.00	2.31	5.61	5.59	6.20	5.82	5.98	5.29	4.47	0.28	
16	0.00	0.15	1.68	0.00	2.79	6.14	6.55	3.50	6.42	4.22	5.92	0.00	
17	1.46	0.10	0.00	0.00	0.90	6.46	6.30	5.42	6.56	0.84	3.50	0.00	
18	0.62	0.64	1.98	2.82	3.75	6.41	2.08	6.15	6.15	0.22	4.03	0.00	
19	1.21	0.00	1.25	0.00	5.29	6.36	4.62	6.92	0.97	2.39	4.44	0.00	
20	1.71	0.00	1.33	4.95	6.39	4.92	6.19	6.79	6.08	0.00	0.53	2.18	
21	0.00	0.00	1.36	1.53	6.32	4.78	6.53	6.55	6.75	1.44	0.06	0.00	
22	0.96	0.00	2.67	0.00	6.41	6.71	6.48	6.33	2.66	0.73	3.21	0.00	
23	0.98	4.34	1.49	0.00	2.63	6.24	6.20	6.75	6.18	0.00	0.00	0.00	
24	1.01	1.25	2.81	0.00	1.93	5.57	5.02	7.03	6.72	1.49	0.00	0.00	
25	0.28	0.00	3.50	0.00	5.31	6.15	2.16	6.49	6.14	0.53	2.38	0.00	
26	1.56	0.00	4.45	2.86	6.44	6.24	5.19	6.79	1.21	0.00	0.00	0.00	
27	0.00	0.00	3.71	1.03	6.71	5.98	4.94	7.09	4.20	0.00	0.00	1.55	
28	0.93	0.64	0.00	0.00	6.57	4.73	4.89	5.71	6.33	1.65	1.99	2.54	
29	0.00		2.97	3.76	3.70	5.99	4.83	4.66	6.37	0.00	0.00	0.00	
30	0.00		5.16	3.89	0.00	6.35	5.38	4.47	5.10	0.00	0.22	0.00	
31	0.00		1.89		2.93		5.33	6.45		2.05		0.00	Annual Summary
Average	1.44	0.48	1.41	1.55	4.17	5.64	5.43	5.85	5.32	2.24	2.80	1.51	3.15
Minimum	0.00	0.00	0.00	0.00	0.00	0.88	2.08	3.50	0.09	0.00	0.00	0.00	0.00
Maximum	6.30	4.34	5.16	5.58	6.71	6.88	6.70	7.09	6.75	6.47	6.52	5.58	7.09
Total	44.8	13.4	43.8	46.5	129.1	169.1	168.3	181.3	159.7	69.3	84.1	46.9	1156

South Bay Wastewater Reclamation Plant 2010 Reclaimed Water Distributed Flows

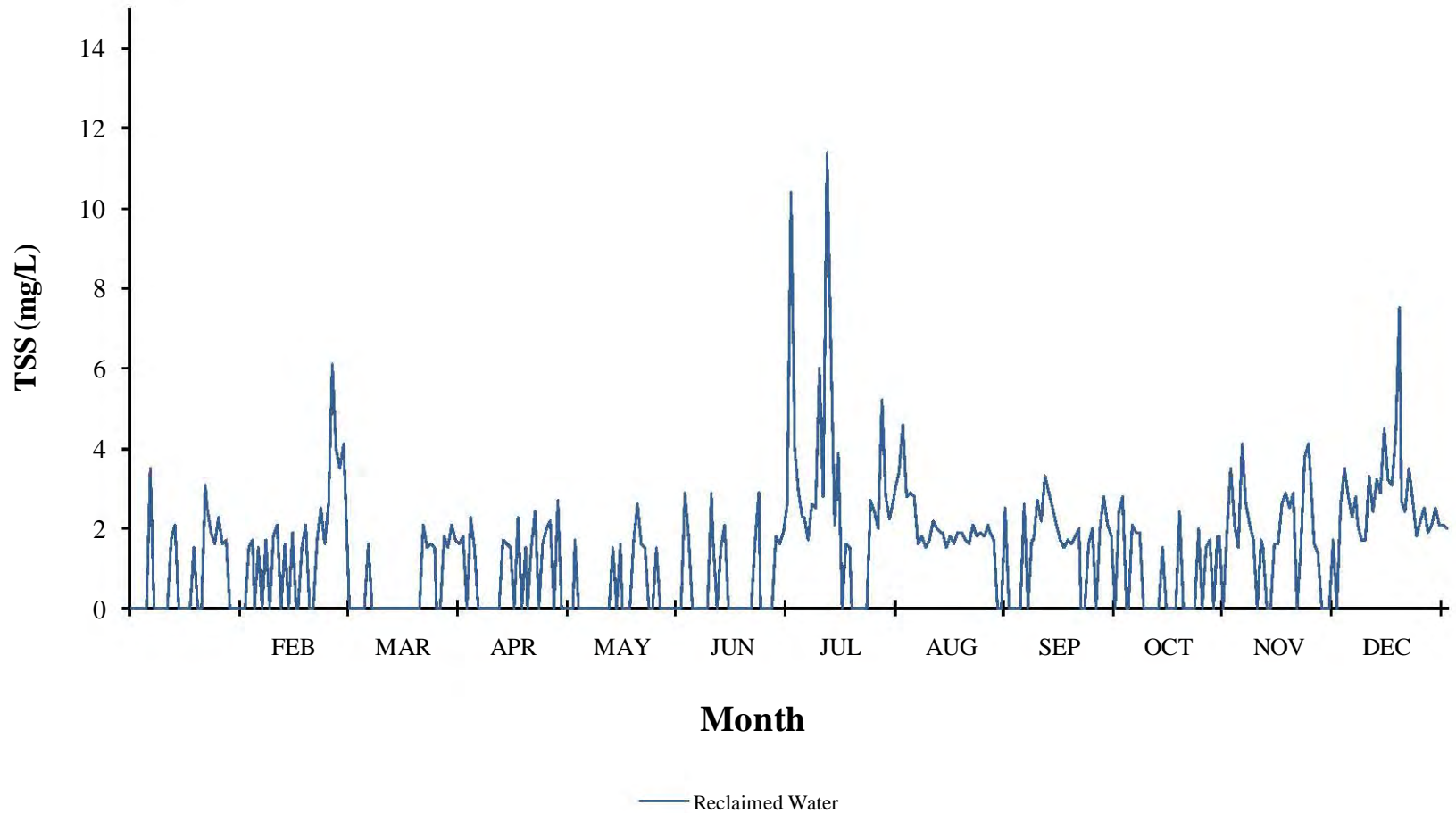


South Bay Wastewater Reclamation Plant 2010 Reclaimed Water Produced and Distributed Flows



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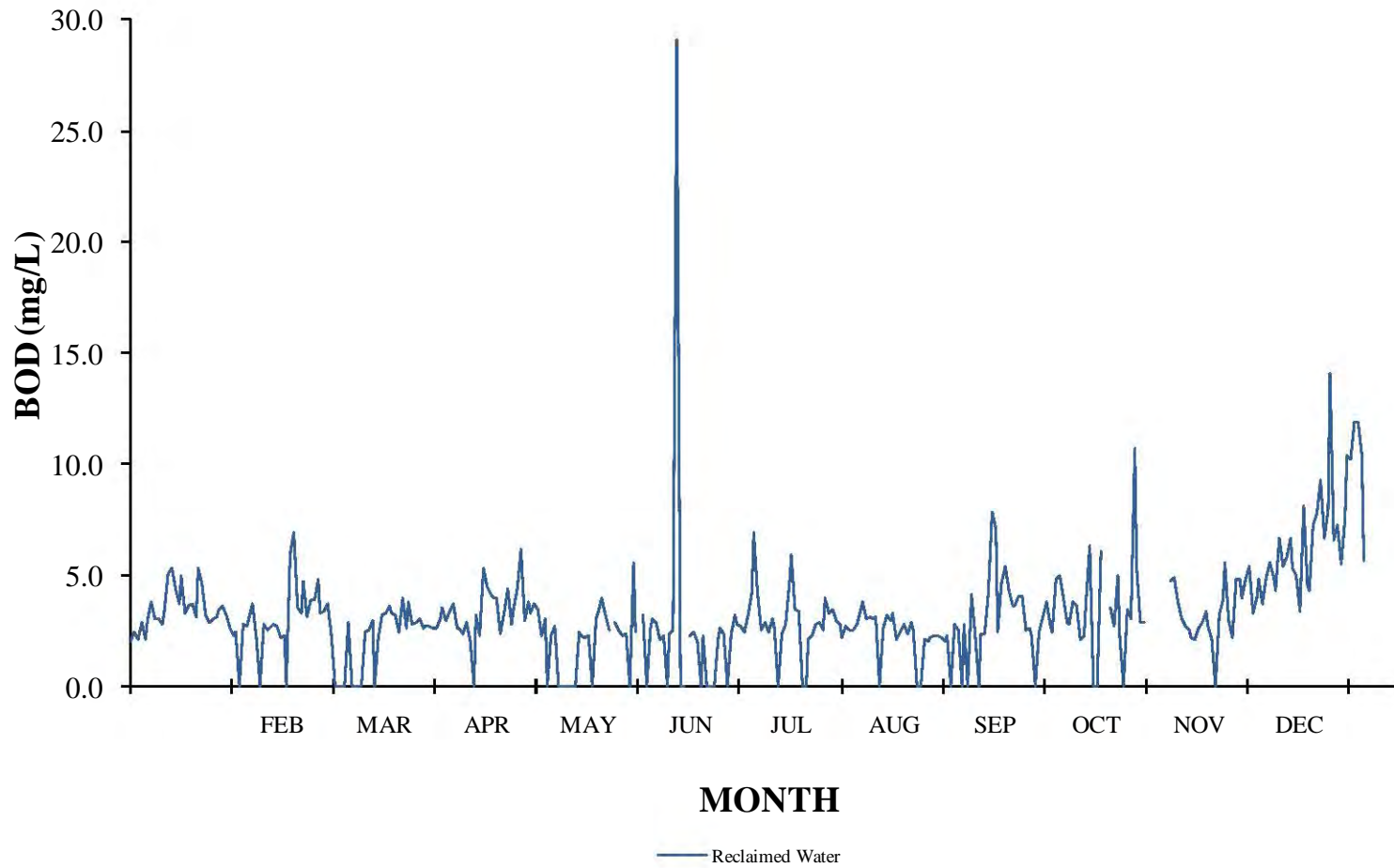
South Bay Wastewater Reclamation Plant 2010 Total Suspended Solids



Daily Reclaimed Water TSS Values in 2010

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	ND	ND	2.8	1.6	ND	ND	10.4	4.6	ND	ND	1.5	2.8		
2	ND	1.5	ND	1.8	ND	2.9	4.0	2.8	ND	ND	4.1	2.3		
3	ND	1.7	ND	ND	1.7	1.8	2.9	2.9	2.6	2.1	2.6	2.8		
4	ND	ND	ND	2.3	ND	ND	2.3	2.8	ND	1.9	2.1	2.1		
5	ND	1.5	ND	1.5	ND	ND	2.3	1.6	1.7	1.9	1.7	1.7		
6	3.5	ND	ND	ND	ND	ND	1.7	1.8	1.7	ND	ND	1.7		
7	ND	1.7	1.6	ND	ND	ND	2.6	1.5	2.7	ND	1.7	3.3		
8	ND	ND	ND	ND	ND	ND	2.5	1.7	2.2	ND	1.5	2.4		
9	ND	1.8	ND	ND	ND	2.9	6.0	2.2	3.3	ND	ND	3.2		
10	ND	2.1	ND	ND	ND	1.6	2.8	2.0	2.9	ND	ND	2.9		
11	ND	ND	ND	ND	ND	ND	11.4	1.9	2.5	1.5	1.6	4.5		
12	1.7	1.6	ND	ND	ND	1.5	6.7	1.9	2.1	ND	1.6	3.2		
13	2.1	ND	ND	1.7	1.5	2.1	2.1	1.5	1.7	ND	2.6	3.1		
14	ND	1.9	ND	1.6	ND	ND	3.9	1.8	1.5	ND	2.9	4.3		
15	ND	ND	ND	1.5	1.6	ND	ND	1.6	1.7	ND	2.5	7.5		
16	ND	ND	ND	ND	ND	ND	1.6	1.9	1.6	2.4	2.9	2.7		
17	ND	1.5	ND	2.3	ND	ND	1.5	1.9	1.8	ND	ND	2.4		
18	1.5	2.1	ND	ND	ND	ND	ND	1.7	2.0	ND	1.5	3.5		
19	ND	ND	ND	1.5	1.7	ND	ND	1.6	ND	ND	3.8	2.7		
20	ND	ND	ND	ND	2.6	ND	ND	2.1	ND	ND	4.1	1.8		
21	3.1	1.7	ND	1.5	1.6	1.6	ND	1.8	1.6	2.0	3.4	2.2		
22	2.5	2.5	2.1	2.4	1.5	2.9	ND	1.9	2.0	ND	1.6	2.5		
23	1.9	1.6	1.5	ND	ND	ND	2.7	1.8	ND	1.5	1.4	1.9		
24	1.6	2.6	1.6	1.6	ND	ND	2.4	2.1	2.0	1.7	ND	2.1		
25	2.3	6.1	1.5	2.0	1.5	ND	2.0	1.9	2.8	ND	ND	2.5		
26	1.6	4.0	ND	2.2	ND	ND	5.2	1.7	2.1	1.8	ND	2.1		
27	1.7	3.5	ND	ND	ND	1.8	2.8	ND	1.8	1.8	1.7	2.1		
28	ND	4.1	1.8	2.7	ND	1.6	2.2	ND	ND	ND	NA	2.0		
29	ND		1.5	ND	ND	1.9	2.7	2.5	2.4	1.9	2.6	5.5		
30	ND		2.1	ND	ND	2.6	3.0	ND	2.8	3.5	3.5	2.2		
31	ND		1.7		ND		3.4	ND		2.1		ND		
Ave	0.76	1.55	0.59	0.94	0.44	0.84	2.94	1.79	1.65	0.84	1.76	2.77	1.41	Annual Summary
Min	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Max	3.50	6.10	2.80	2.70	2.60	2.90	11.40	4.60	3.30	3.50	4.10	7.50	11.4	

South Bay Wastewater Reclamation Plant 2010 Biochemical Oxygen Demand



Daily Reclaimed BOD Values 2010

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	2.00	2.41	2.24	2.60	3.41	3.21	2.42	2.51	2.77	4.77	NA	3.74	
2	2.45	ND	ND	3.07	2.26	ND	3.18	2.49	2.49	5	NA	4.9	
3	2.14	2.78	ND	3.51	3.06	2.61	4.21	2.8	ND	3.94	NA	5.57	
4	2.86	2.70	ND	2.91	ND	3.01	6.94	3.11	2.74	2.89	4.68	4.87	
5	2.13	3.39	ND	3.39	2.25	2.84	4.24	3.75	ND	2.8	4.9	4.26	
6	2.94	3.69	2.90	3.73	2.67	2.09	2.56	2.99	4.16	3.83	3.75	6.67	
7	3.75	2.17	ND	2.60	ND	2.26	2.88	3.08	2.23	3.65	3.07	5.37	
8	3.05	ND	ND	2.59	ND	ND	2.48	3.05	ND	2.1	2.69	5.84	
9	3.07	2.79	ND	2.39	0	2.36	2.99	3.13	2.35	2.31	2.55	6.66	
10	2.81	2.50	ND	2.84	0	2.51	2.58	ND	2.39	3.77	2.17	5.28	
11	3.38	2.63	2.43	2.02	0	29.1	ND	2.57	4.24	6.3	2.08	4.93	
12	5.04	2.77	2.54	ND	0	ND	2.35	3.17	7.82	ND	2.58	3.38	
13	5.33	2.65	2.97	3.20	2.44	ND	2.77	2.97	7.1	ND	2.86	8.12	
14	4.36	2.20	ND	2.27	2.27		4.66	3.27	2.43	6.1	3.39	4.51	
15	3.72	2.28	2.18	5.31	2.2	2.28	5.9	2.06	4.66	NA	2.67	4.3	
16	4.94	ND	3.17	4.45	2.25	2.41	3.45	2.48	5.38	NA	2.09	7.23	
17	3.24	5.91	3.25	4.15	0	2.05	3.39	2.77	4.27	3.54	ND	7.73	
18	3.58	6.87	3.64	3.98	3.05	ND	ND	2.38	3.63	2.7	3.17	9.27	
19	3.69	3.52	3.31	3.92	3.24	2.23	ND	2.87	3.58	4.94	3.87	6.63	
20	3.13	3.30	3.20	2.37	3.94	ND	2.08	2.51	4.05	2.17	5.56	7.95	
21	5.30	4.71	2.41	3.32	3.21	ND	2.24	ND	4.08	ND	2.92	14.1	
22	4.60	3.11	3.97	4.41	2.51	ND	2.8	ND	2.52	3.43	2.22	6.61	
23	3.17	3.88	2.61	2.76		2.08	2.85	2.14	2.61	3.02	4.84	7.22	
24	2.86	3.84	3.82	3.48	2.84	2.58	2.52	2.04	2.27	10.7	4.8	5.49	
25	3.03	4.80	2.76	4.34	2.56	2.39	3.94	2.22	ND	5.3	3.92	7.5	
26	3.14	3.30	2.83	6.13	2.23	ND	3.28	2.23	2.44	2.82	4.79	10.4	
27	3.44	3.38	3.00	2.96	2.35	2.36	3.42	2.25	3.11	2.85	5.36	10.2	
28	3.66	3.68	2.61	3.75	ND	3.17	2.96	2.21	3.77	NA	3.24	11.9	
29	3.19		2.65	3.24	5.55	2.78	2.77	2.05	2.81	NA	3.92	11.9	
30	2.6		2.73	3.74	2.48	2.69	2.2	2.23	2.44	NA	4.84	10.4	
31	2.26		2.64				2.66	ND		NA		5.68	
Ave	3.38	3.05	2.06	3.31	1.96	2.66	2.93	2.30	3.08	2.87	3.10	7.05	3.14
Min	2.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max	5.33	6.87	3.97	6.13	5.55	29.1	6.94	3.75	7.82	10.7	5.56	14.1	29.1

E. UV Performance 2010

UV PERFORMANCE REPORT
CY 2010

Monthly Averages

Date	UV TRANSMITTANCE PCT	UV MIN DOSE mj/cm2	BANK 1 POWER PCT	BANK 2 POWER PCT	BANK 3 POWER PCT	BANK 4 POWER PCT
Jan-10	64.41	159.25	55.57	63.33	60.90	59.95
Feb-10	64.73	157.39	54.73	48.64	55.18	51.00
Mar-10	64.67	158.83	47.23	48.23	58.64	52.77
Apr-10	63.23	158.93	68.12	69.71	69.18	65.41
May-10	64.30	157.66	59.72	58.45	58.93	60.93
Jun-10	63.66	156.87	63.40	64.90	61.43	68.23
Jul-10	65.15	163.40	63.23	64.65	62.71	64.19
Aug-10	65.09	152.51	62.68	64.58	62.58	65.19
Sep-10	63.97	158.54	66.10	67.27	65.00	68.67
Oct-10	63.91	161.13	65.83	68.13	64.61	68.13
Nov-10	64.72	156.09	60.00	57.08	58.46	62.29
Dec-10	62.67	176.01	65.61	65.89	63.67	65.89
Average	64.21	159.72	61.02	61.74	61.77	62.72

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