

II. Influent and Effluent Data Summary

The results of all analyses performed on the WWTP influent and effluent are summarized in tables with monthly and annual averages (and in some cases annual totals) calculated. Graphs of monthly averages are presented.

- A. Mass Emissions
- B. Discharge Limits
- C. Influent and Effluent Data Summaries
- D. Influent and Effluent Graphs
- E. Daily Values of selected Parameters
- F. Toxicity Bioassays
- G. 6-Year Tables

A. Mass Emissions

Mass Emissions of Effluent Using 2007 Monthly Averages
DISCHARGE SPECIFICATIONS from NPDES Permit No. CA0107409/RWQCB Order No. R-9
2002-0025 effective on September 13, 2002 with limits on pollutant discharges.

Constituent/Property	Benchmarks (mt/yr)	2007 Mass Emissions (mt/yr)	2007 Concentration	Units
Flow (MGD)			161.4	MGD
Total Suspended Solids	<u>13,599</u>	7,577	34	mg/L
BOD	--	21,172	95	mg/L
Arsenic	0.88	0.16	0.70	ug/L
Cadmium	1.4	0.02	0.08	ug/L
Chromium	14.2	0.25	1.1	ug/L
Copper	26	4	16.6	ug/L
Lead	14.2	0.00	0.0	ug/L
Mercury	0.19	0.00	0.00	ug/L
Nickel	11.3	1.92	9	ug/L
Selenium	0.44	0.24	1.07	ug/L
Silver	2.8	0.00	0.0	ug/L
Zinc	18.3	4.5	20	ug/L
Cyanide	1.57	0.04	0.0002	mg/L
Residual Chlorine	--	--		
Ammonia	8018	6,976	31.3	mg/L
Non-Chor. Phenols	2.57	2.72	12.2	ug/L
Chlorinated Phenols	1.73	0.00	0.0	ug/L
Endosulfan	0.006	0.00	0	ng/L
Endrin	0.008	0.00	0	ng/L
hexachlorocyclohexanes *(HCH)	0.025	0	0	ng/L
* (all as Lindane, the gamma isomer)				
Acrolein	17.6	0.00	0	ug/L
Antimony	56.6	0.0	0	ug/L
Bis(2-chloroethoxy) methane	1.5	0.00	0	ug/L
Bis(2-chloroisopropyl) ether	1.61	0.00	0	ug/L
Chlorobenzene	1.7	0.00	0	ug/L
Chromium (III)	--	--		
di-n-butyl phthalate	1.33	0.00	0	ug/L
dichlorobenzenes	2.8	0.0	0.1	ug/L
1,1-dichloroethylene	0.79	0.00	0	ug/L
Diethyl phthalate	6.23	0.00	0	ug/L
Dimethyl phthalate	1.59	0.00	0	ug/L
4,6-dinitro-2-methylphenol	6.8	0.00	0	ug/L
2,4-dinitrophenol	11.9	0.00	0	ug/L
Ethylbenzene	2.04	0.00	0	ug/L
Fluoranthene	0.62	0.00	0	ug/L
Hexachlorocyclopentadiene	--	0.00	0	ug/L

Constituent/Property	Benchmarks (mt/yr)	2007 Mass Emissions (mt/yr)	2007 Concentration	Units
Nitrobenzene	2.07	0.00	0	ug/L
Thallium	36.8	0.00	0.0	ug/L
Toluene	3.31	0.25	1.1	ug/L
1,1,2,2-tetrachloroethane	1.95	0.00	0	ug/L
Tributyltin	0.001	0.00	0	ug/L
1,1,1-trichloroethane	2.51	0.00	0	ug/L
1,1,2-trichloroethane	1.42	0.02	0.1	ug/L
Acrylonitrile	5.95	0.00	0	ug/L
Aldrin	0.006	0.00	0	ng/L
Benzene	1.25	0.00	0	ug/L
Benzidine	12.5	0.00	0	ug/L
Beryllium	1.42	0.00	0.00	ug/L
Bis(2-chloroethyl) ether	1.61	0.00	0	ug/L
Bis(2-ethylhexyl) phthalate	2.89	0.00	0.0	ug/L
Carbon Tetrachloride	0.79	0.00	0	ug/L
Chlordane	0.014	0.0000	0	ng/L
Chloroform	2.19	0.87	3.9	ug/L
DDT	0.043	0.00	0	ng/L
1,4-dichlorobenzene	1.25	0.31	1.4	ug/L
3,3-dichlorobenzidine	4.67	0.00	0	ug/L
1,2-dichloroethane	0.79	0.00	0	ug/L
Dichloromethane (methylene chloride)	13.7	0.56	2.5	ug/L
1,3-dichloropropene	1.42	0.00	0	ug/L
Dieldrin	0.011	0.00	0	ng/L
2,4-dinitrotoluene	1.61	0.00	0	ug/L
1,2-diphenylhydrazine	1.52	0.00	0	ug/L
Halomethanes	5.86	0.04	0.2	ug/L
Heptachlor	0.001	0.00	0	ng/L
Heptachlor epoxide	0.024	0.00	0	ng/L
Hexachlorobenzene	0.54	0.00	0	ug/L
Hexachlorobutadiene	0.054	0.00	0	ug/L
Hexachloroethane	1.13	0.00	0	ug/L
Isophorone	0.71	0.00	0	ug/L
N-nitrosodimethylamine	0.76	0.00	0	ug/L
N-nitrosodiphenylamine	1.47	0.00	0	ug/L
PAHs	15.45	0.00	0	ug/L
PCBs	0.275	0.00	0	ng/L
TCDD equivalents	--	0.000000000	0.000	pg/L
Tetrachloroethylene	4	0.00	0	ug/L
Toxaphene	0.068	0.00	0	ng/L
Trichloroethylene	1.56	0.00	0	ug/L
2,4,6-trichlorophenol	0.96	0.00	0	ug/L
Vinyl Chloride	0.4	0.00	0	ug/L

B. Discharge Limits

NPDES Permit No. CA0107409/RWQCB Order No. R-2002-0025

DISCHARGE SPECIFICATIONS from NPDES Permit No. CA0107409/RWQCB Order No. R-2002-0025 effective on September 13, 2002 with limits on pollutant discharges.

The discharge of waste through the Point Loma Ocean Outfall containing pollutants in excess of the following effluent limitations are prohibited:

NPDES Permit No. CA0107409/RWQCB Order No. R-2002-0025						
Constituent	Units	6-month Median	30-day Average	7-Day Average	Daily Maximum	Instantaneous Maximum
Biochemical Oxygen Demand BOD ₅ @ 20°C	mg/L	The "Mean Annual Percent Removal" limit for BOD is 58%. There is no mass emission limit.				
Total Suspended Solids ¹¹	mg/L lb/day		75 13,599			
pH	pH units	Within the limits of 6.0 - 9.0 at all times.				
Grease & Oil	mg/L lb/day		25 34,000	40 68,000		75 130,000
Settleable Solids	mL/L		1.0	1.5		3.0
Turbidity	NTU		75	100		225
Acute Toxicity	TUa				6.5	
Arsenic	ug/L	1,000			5,900	16,000
Cadmium	ug/L	200			800	2,100
Chromium ¹² (Hexavalent)	ug/L	400			2,000	4,100
Copper	ug/L	200			2,100	5,700
Lead	ug/L	400			2,000	4,100
Mercury	ug/L	8.1			33	80
Nickel	ug/L	1,000			4,100	10,000
Selenium	ug/L	3,100			12,000	30,800
Silver	ug/L	100			540	1,000
Zinc	ug/L	2,500			15,000	39,400
Cyanide	mg/L	0.2			0.8	2.1
Total Residual Chlorine(TRC)	mg/L	0.400			2.0	12
Ammonia (expressed as Nitrogen)	mg/L	123			492	1,230
Chronic Toxicity	TUc				205	
Phenolic Compounds (non- chlorinated)	ug/L	6,200			24,600	61,500
Chlorinated Phenolics	ug/L	200			800	2,100
Endosulfan	ng/L	2,000			3,700	5,500

¹¹ Total Suspended Solids (TSS)- The discharger shall achieve a mass emission of TSS of no greater than 15,000 mt/yr; this requirement shall be effective through December 31, 2005. Effective January 1, 2006, the discharger shall achieve a mass emission of TSS of no greater than 13,599 mt/yr. These mass emission requirements shall only apply to TSS discharged from POTWs which are owned and operated by the discharger, and the discharger's wastewater generated in the Metro System service area. These mass emission requirements do not apply to wastewater (and the resulting TSS) generated in Mexico as a result of upset or shutdown and treated at and discharged from the PLMWTP.

¹² Hexavalent Chromium limit met as Total Chromium.

Constituent	Units	6-month Median	30-day Average	7-Day Average	Daily Maximum	Instantaneous Maximum
Endrin	ng/L	400			800	1,000
HCH (hexachlorocyclohexanes)	ng/L lb/day	800			2,000	2,500
Radioactivity - Not to exceed limits specified in Title 17, Division 1, Chapter 5, Subchapter 4, Group 3, Article 3, Section 30269 of the California Code of Regulations.						

Note: mg/L= milligrams per liter
 ug/L = micrograms per liter
 ng/L = nanograms per liter
 lb/day= pounds per day
 NTU= Nephelometric turbidity units
 TUa = Acute toxicity units
 TUc = Chronic toxicity units

Constituent	Units	Monthly Average (30-Day)
LIMITATIONS FOR PROTECTION OF HUMAN HEALTH--NONCARCINOGENS		
Acrolein	ug/L	45,000
Antimony	ug/L	250,000
Bis(2-chloroethoxy) methane	ug/L	900
Bis(2-chloroisopropyl) ether	ug/L	250,000
Chlorobenzene	ug/L	120,000
Chromium (III) ¹³	ug/L	39,000,000
di-n-butyl phthalate	ug/L	720,000
dichlorobenzenes	ug/L	1,000,000
Diethyl phthalate	ug/L	6,800,000
Dimethyl phthalate	ug/L	170,000,000
4,6-dinitro-2-methylphenol	ug/L	45,000
2,4-dinitrophenol	ug/L	820
Ethylbenzene	ug/L	840,000
Fluoranthene	ug/L	3,100
Hexachlorocyclopentadiene	ug/L	12,000
Nitrobenzene	ug/L	1,000
Thallium	ug/L	400
Toluene	ug/L	17,000,000
Tributyltin	ug/L	0.29
1,1,1-trichloroethane	ug/L	110,000,000
LIMITATIONS FOR PROTECTION OF HUMAN HEALTH—CARCINOGENS		
Acrylonitrile	ug/L	21
Aldrin	ng/L	4.5
Benzene	ug/L	1,200
Benzidine	ug/L	0.014
Beryllium	ug/L	6.8
Bis(2-chloroethyl)ether	ug/L	9.2
Bis(2-ethylhexyl)phthalate	ug/L	720
Carbon Tetrachloride	ug/L	180

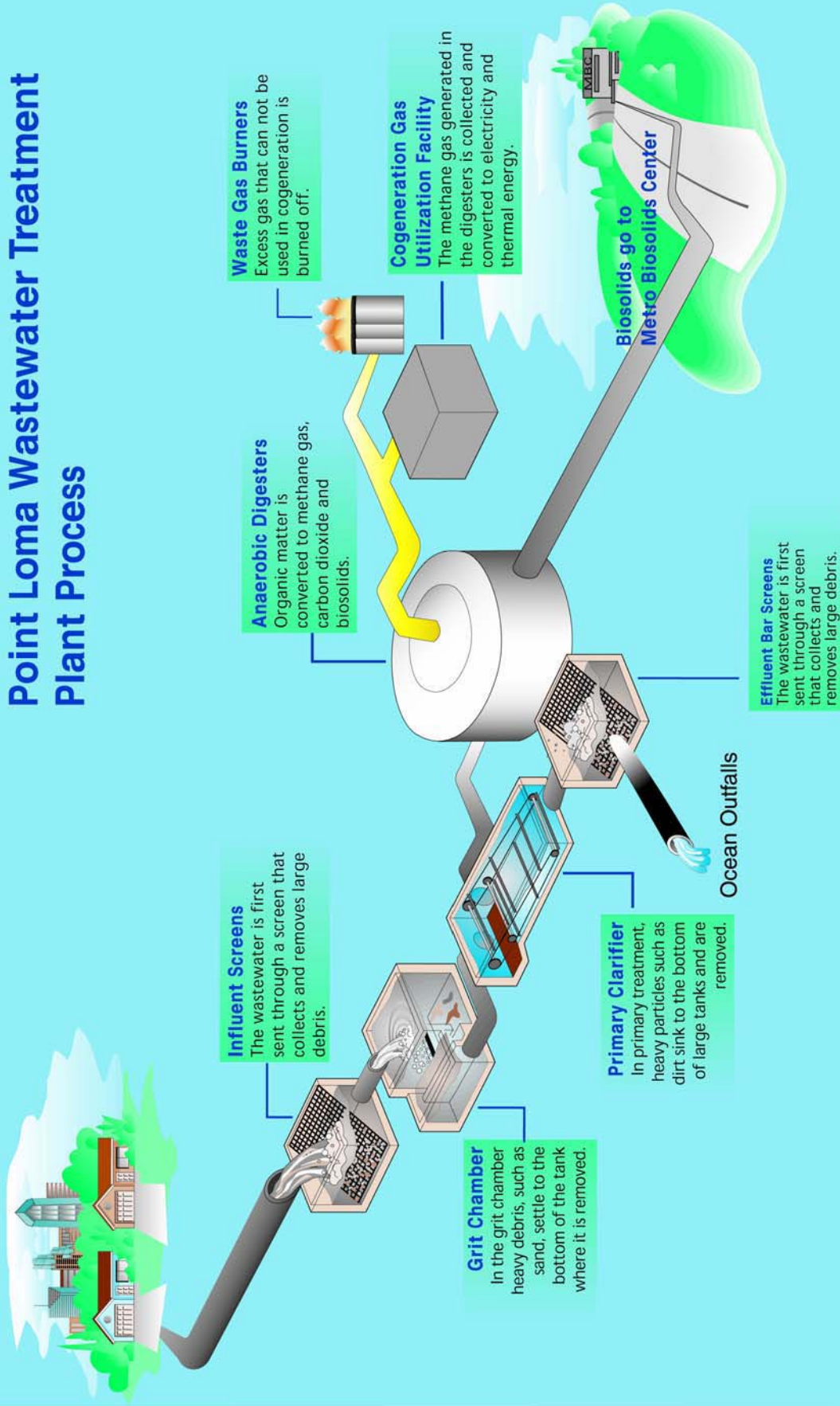
¹³ Chromium (III) limit is met by Total Chromium.

Constituent	Units	Monthly Average (30-Day)
Chlordane	ng/L	4.7
Chloroform	ug/L	27,000
DDT	ng/L	35
1,1,2,2-tetrachloroethane	ug/L	470
1,1-dichloroethylene	ug/L	200
1,1,2-trichloroethane	ug/L	1,900
1,4-dichlorobenzene	ug/L	3,700
3,3-dichlorobenzidine	ug/L	1.7
1,2-dichloroethane	ug/L	5,700
Dichloromethane	ug/L	92,000
1,3-dichloropropene	ug/L	1,800
Dieldrin	ng/L	8.20
2,4-dinitrotoluene	ug/L	530
1,2-diphenylhydrazine	ug/L	33
Halomethanes	ug/L	27,000
Heptachlor	ng/L	10
Hexachlorobenzene	ug/L	0.043
Hexachlorobutadiene	ug/L	2,900
Hexachloroethane	ug/L	510
Isophorone	ug/L	150,000
N-nitrosodimethylamine	ug/L	1,500
N-nitrosodiphenylamine	ug/L	510
PAHs	ug/L	1.80
PCBs	ng/L	3.90
TCDD equivalents	pg/L	0.8
Tetrachloroethylene	ug/L	410
Toxaphene	ng/L	430
Trichloroethylene	ug/L	5,500
Vinyl Chloride	ug/L	7,400

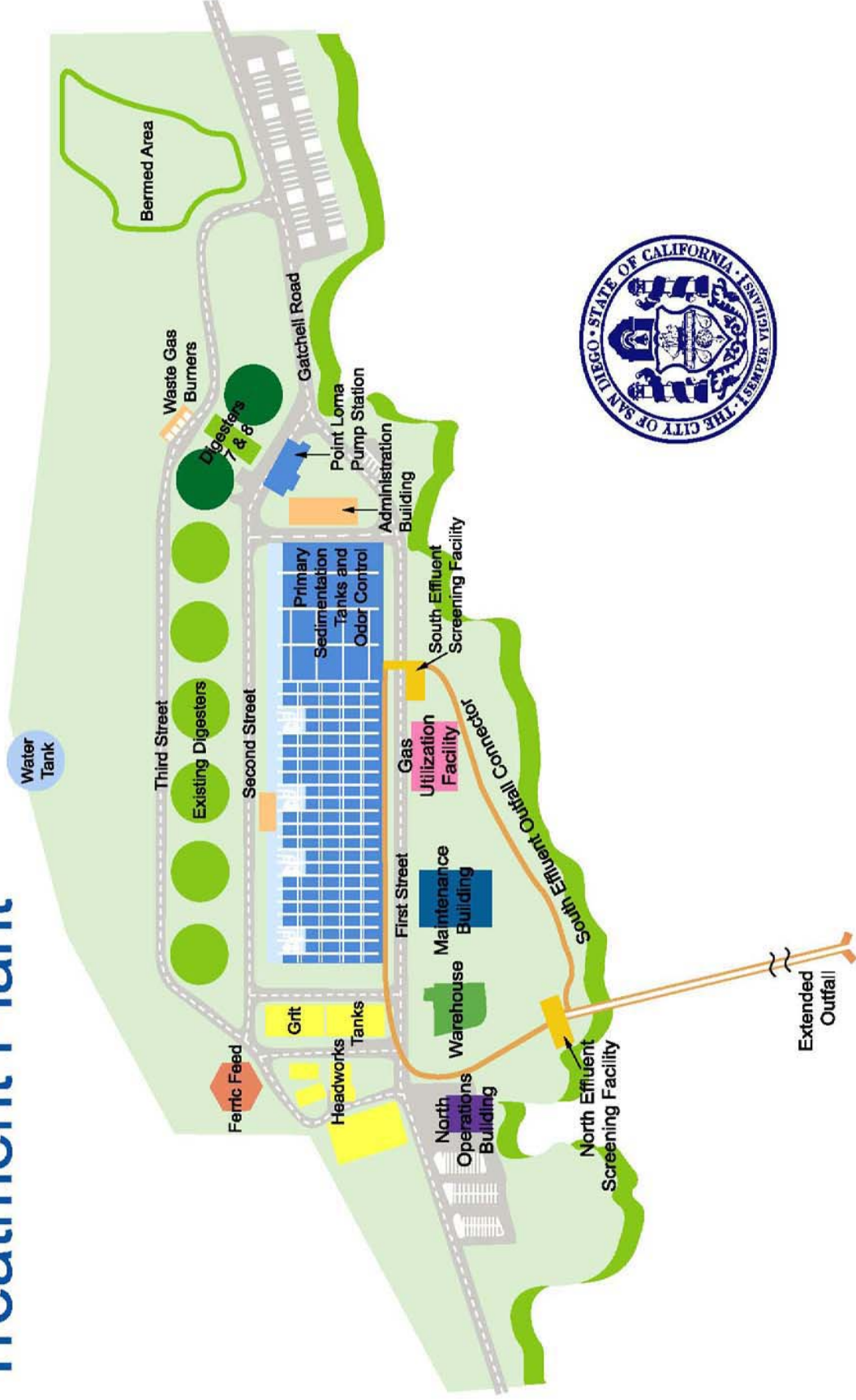
C. Influent and Effluent Data Summaries

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

Point Loma Wastewater Treatment Plant Process



Point Loma Wastewater Treatment Plant



POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL

From 01-JAN-2007 to 31-DEC-2007

Biochemical Oxygen Demand Concentration
(24-hour composite)

Limit/Units	Flow 240 (MGD)	Daily Influent Value (mg/L)	Daily Influent Value (lbs/Day)	Daily Effluent Value (mg/L)	Daily Effluent Value (lbs/Day)	Percent Removal BOD (%)
JANUARY -2007	163.9	282	385473	100	136693	64.5
FEBRUARY -2007	169.8	286	405014	97	137365	66.1
MARCH -2007	165.4	302	416590	99	136564	67.2
APRIL -2007	161.0	307	412221	95	127560	69.1
MAY -2007	157.4	315	413506	96	126021	69.5
JUNE -2007	157.4	329	431884	95	124708	71.1
JULY -2007	159.2	323	428856	96	127462	70.3
AUGUST -2007	160.4	322	430751	98	131098	69.6
SEPTEMBER-2007	158.7	311	411627	94	124414	69.8
OCTOBER -2007	156.6	295	385283	93	121462	68.5
NOVEMBER -2007	158.4	305	402922	93	122858	69.5
DECEMBER -2007	169.0	270	380554	89	125442	67.0
Average	161.4	304	408723	95	128471	68.5

Total Suspended Solids Concentration
(24-hour composite)

Limit/Units	Flow 240 (MGD)	Daily Influent TSS (mg/L)	Daily Influent VSS (mg/L)	Percent of TSS (%)	Daily Influent Value (lbs/Day)	Daily Effluent TSS (mg/L)	Daily Effluent VSS (mg/L)	Percent of TSS (%)	Daily Effluent Value (lbs/Day)
JANUARY -2007	163.9	271	230	84.9	370437	36	25	69.4	49209
FEBRUARY -2007	169.8	283	239	84.5	400765	34	24	70.6	48148
MARCH -2007	165.4	298	253	84.9	411072	33	23	69.7	45521
APRIL -2007	161.0	319	265	83.1	428334	29	20	69.0	38939
MAY -2007	157.4	323	268	83.0	424007	26	19	73.1	34131
JUNE -2007	157.4	340	281	82.6	446323	25	18	72.0	32818
JULY -2007	159.2	368	304	82.6	488604	31	22	71.0	41160
AUGUST -2007	160.4	377	305	80.9	504326	34	24	70.6	45483
SEPTEMBER-2007	158.7	338	278	82.2	447363	41	29	70.7	54266
OCTOBER -2007	156.6	320	267	83.4	417934	43	31	72.1	56160
NOVEMBER -2007	158.4	313	262	83.7	413491	35	26	74.3	46237
DECEMBER -2007	169.0	280	234	83.6	394649	41	28	68.3	57788
Average	161.4	319	266		428942	34	24		45822

	Percent Removal TSS (%)	Percent Removal VSS (%)
JANUARY -2007	86.7	89.1
FEBRUARY -2007	88.0	90.0
MARCH -2007	88.9	90.9
APRIL -2007	90.9	92.5
MAY -2007	92.0	92.9
JUNE -2007	92.6	93.6
JULY -2007	91.6	92.8
AUGUST -2007	91.0	92.1
SEPTEMBER-2007	87.9	89.6
OCTOBER -2007	86.6	88.4
NOVEMBER -2007	88.8	90.1
DECEMBER -2007	85.4	88.0
Average	89.2	90.8

Annual Mass Emissions are calculated from monthly averages of flow and TSS, whereas Monthly Report average mass emissions are calculated from average daily mass emissions.

POINT LOMA WASTEWATER TREATMENT PLANT

Systemwide TSS Removals - 2007

MONTH	Pt. Loma Influent Mass Emissions	NCWRP PS64 Mass Emissions	NCWRP Penasquitos Mass Emissions	MBC Return Mass Emissions	NCWRP Return Mass Emissions	Total Return Mass Emissions	Pt. Loma Effluent Mass Emissions	System wide Adjusted TSS Removals	Pt. Loma Daily TSS Removals
01-07	369,903	25,667	18,452	13,517	6,435	19,952	48,912	87.5	86.7
02-07	401,123	25,712	19,658	15,642	5,531	21,173	48,434	88.6	87.8
03-07	411,328	26,085	17,459	13,629	4,556	18,185	45,495	89.4	88.8
04-07	422,345	28,615	19,013	13,951	4,392	18,343	38,125	91.4	90.8
05-07	423,960	29,468	17,935	18,128	3,617	21,745	34,314	92.1	91.6
06-07	446,302	26,803	13,977	22,478	7,044	29,522	32,499	92.8	92.5
07-07	487,670	32,144	11,594	20,433	3,370	23,803	41,018	91.7	91.4
08-07	504,651	29,805	25,220	24,165	3,134	27,299	45,403	91.4	91.0
09-07	448,009	26,574	21,512	21,082	4,639	25,721	54,024	88.4	87.8
10-07	417,126	28,573	19,107	32,539	4,555	37,095	56,123	86.7	86.5
11-07	413,472	27,170	20,258	13,244	4,700	17,944	46,528	89.4	88.8
12-07	393,295	26,454	20,188	15,259	4,004	19,263	57,586	86.5	85.5
avg	428,265	27,756	18,698	18,672	4,665	23,337	45,705	89.7	89.1

POINT LOMA WASTEWATER TREATMENT PLANT

Systemwide BOD Removals - 2007

MONTH	Pt. Loma Influent Mass Emissions	NCWRP PS64 Mass Emissions	NCWRP Penasquitos Mass Emissions	MBC Return Mass Emissions	NCWRP Return Mass Emissions	Total Return Mass Emissions	Pt. Loma Effluent Mass Emissions	System wide Adjusted BOD Removals	Pt. Loma Daily BOD Removals
01-07	384,749	27,135	14,056	6,906	9,324	16,231	136,450	66.7	64.5
02-07	404,773	26,038	16,293	6,087	15,166	21,253	137,190	67.7	66.1
03-07	416,757	26,167	15,027	6,283	8,844	15,127	136,445	69.1	67.2
04-07	408,184	26,012	14,453	6,628	3,439	10,067	127,449	70.9	68.7
05-07	413,659	26,826	12,408	7,098	5,461	12,559	125,745	71.4	69.5
06-07	431,916	29,066	13,855	7,440	9,288	16,728	125,252	72.5	70.9
07-07	428,877	31,088	8,817	6,117	4,390	10,507	127,790	71.9	69.9
08-07	430,405	28,801	21,622	6,459	2,548	9,007	130,640	72.2	69.5
09-07	412,082	29,526	18,480	5,955	20,146	26,101	124,113	71.3	69.7
10-07	385,118	26,273	14,111	7,410	13,225	20,634	121,557	69.8	68.3
11-07	401,978	30,878	17,836	4,130	20,847	24,977	123,467	71.0	69.2
12-07	379,123	25,457	15,170	7,160	6,576	13,737	125,473	69.0	66.9
avg	408,135	27,772	15,177	6,473	9,938	16,411	128,464	70.3	68.4

Annual mass emissions are calculated from monthly averages of flow and TSS, whereas Monthly Report average mass emissions are calculated from average daily mass emissions.

The mass emission for the Return Stream is calculated using data from four NCWRP sources (plant drain, filter backwash, excess primary effluent, and disinfected final effluent that is not reclaimed) and one MBC source (centrate from the dewatering process) that are diverted to the Return Stream.

POINT LOMA WASTEWATER TREATMENT PLANT

From 01-JAN-2007 to 31-DEC-2007

Influent to Plant
(PLR)

		pH	Settleable Solids (ml/L)	Biochemical Oxygen Demand (mg/L)	Hexane Extractable Material (mg/L)	Temperature (C)
=====	=====	=====	=====	=====	=====	=====
JANUARY	-2007	7.38	16.00	282	42.0	22.2
FEBRUARY	-2007	7.45	15.50	286	42.3	22.1
MARCH	-2007	7.41	15.80	302	38.9	22.8
APRIL	-2007	7.38	17.20	307	40.8	23.8
MAY	-2007	7.32	15.50	315	40.3	24.9
JUNE	-2007	7.31	17.60	329	42.4	26.0
JULY	-2007	7.32	19.30	323	43.0	27.3
AUGUST	-2007	7.26	16.60	322	39.6	28.2
SEPTEMBER	-2007	7.31	18.00	311	41.5	28.3
OCTOBER	-2007	7.28	18.40	295	44.1	26.6
NOVEMBER	-2007	7.27	21.00	305	40.1	25.3
DECEMBER	-2007	7.32	14.30	270	37.3	23.2
=====	=====	=====	=====	=====	=====	=====
Average		7.33	17.1	304	41.0	25.1

Effluent to Ocean Outfall
(PLE)

		pH	Settleable Solids (ml/L)	Biochemical Oxygen Demand (mg/L)	Hexane Extractable Material (mg/L)	Temperature (C)	Floating Particulates (mg/L)	Turbidity (NTU)
=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY	-2007	7.16	0.4	100	9.6	22.3	<0.10	44
FEBRUARY	-2007	7.28	0.3	97	8.4	22.1	<0.10	44
MARCH	-2007	7.22	0.3	99	8.6	22.9	0.15	47
APRIL	-2007	7.22	0.3	95	6.8	23.8	<0.10	41
MAY	-2007	7.18	0.3	96	7.9	25.0	<1.40	41
JUNE	-2007	7.16	0.3	95	7.9	26.1	ND	40
JULY	-2007	7.17	0.3	96	7.5	27.5	ND	42
AUGUST	-2007	7.11	0.5	98	8.2	28.4	<1.40	42
SEPTEMBER	-2007	7.16	0.6	94	7.8	28.5	ND	46
OCTOBER	-2007	7.13	0.6	93	10.0	26.7	<1.40	48
NOVEMBER	-2007	7.16	0.6	93	8.5	25.5	ND	46
DECEMBER	-2007	7.15	0.8	89	9.5	23.3	ND	47
=====	=====	=====	=====	=====	=====	=====	=====	=====
Average		7.18	0.4	95	8.4	25.2	0.01	44

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

comp = 24 hour composite sample
grab = grab sample

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SEWAGE
Trace Metals
(Limits shown are the 6-Month Median Maximum)

From: 01-JAN-2007 to: 31-DEC-2007

Analyte:	Antimony	Antimony	Arsenic	Arsenic	Beryllium	Beryllium	Cadmium	Cadmium
MDL	2.9	2.9	.4	.4	.022	.022	.53	.53
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
=====								
JANUARY -2007	<2.9	ND	1.17	0.57	ND	ND	<0.53	ND
FEBRUARY -2007	ND	ND	1.02	0.42	<0.022	ND	<0.53	<0.53
MARCH -2007	ND	ND	1.19	0.70	<0.022	ND	9.58	ND
APRIL -2007	ND	ND	1.08	0.71	ND	ND	<0.53	ND
MAY -2007	ND	ND	1.18	0.93	ND	ND	ND	ND
JUNE -2007	ND	ND	1.20	0.88	0.151	ND	1.79	1.01
JULY -2007	ND	ND	1.03	0.69	ND	ND	<0.53	<0.53
AUGUST -2007	ND	ND	1.20	0.71	ND	ND	<0.53	ND
SEPTEMBER-2007	ND	ND	1.19	0.68	ND	ND	<0.53	<0.53
OCTOBER -2007	ND	ND	1.17	0.71	<0.022	ND	ND	ND
NOVEMBER -2007	ND	ND	0.98	0.60	<0.022	ND	ND	ND
DECEMBER -2007	ND	ND	1.17	0.75	<0.022	ND	ND	ND
=====								
AVERAGE	0.0	ND	1.13	0.70	0.013	ND	0.95	0.08

Analyte:	Chromium	Chromium	Copper	Copper	Iron	Iron	Lead	Lead
MDL	1.2	1.2	.63	.63	37	37	2	2
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
=====								
JANUARY -2007	8.5	ND	82.5	14.3	9740	5160	2.6	ND
FEBRUARY -2007	5.8	2.3	43.9	18.2	5500	4860	ND	ND
MARCH -2007	8.1	1.4	89.6	13.5	7690	4850	5.4	ND
APRIL -2007	9.3	1.4	96.7	14.8	7830	4390	2.5	ND
MAY -2007	6.5	<1.2	88.8	8.6	7880	3990	<2.0	ND
JUNE -2007	8.0	ND	114.0	12.4	9450	4060	<2.0	ND
JULY -2007	8.7	ND	118.0	34.7	9860	4170	2.4	ND
AUGUST -2007	8.1	1.4	98.6	30.0	9860	4510	<2.0	ND
SEPTEMBER-2007	7.8	4.1	104.0	13.2	10500	4810	<2.0	ND
OCTOBER -2007	7.0	<1.2	95.6	11.3	10300	5370	<2.0	ND
NOVEMBER -2007	8.1	<1.2	85.7	15.3	9530	5280	3.2	ND
DECEMBER -2007	9.3	2.4	78.8	13.4	8470	5040	ND	ND
=====								
AVERAGE	7.9	1.1	91.4	16.6	8884	4708	1.3	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SEWAGE
Trace Metals
(Limits shown are the 6-Month Median Maximum)

From: 01-JAN-2007 to: 31-DEC-2007

Analyte:	Mercury	Mercury	Nickel	Nickel	Selenium	Selenium	Silver	Silver
MDL	.09	.09	.53	.53	.28	.28	.4	.4
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
=====								
JANUARY -2007	ND	ND	14.5	9.1	1.54	0.92	1.9	<0.4
FEBRUARY -2007	<0.09	ND	14.4	12.1	1.64	1.31	<0.4	ND
MARCH -2007	0.10	ND	16.7	11.1	1.87	1.07	1.8	ND
APRIL -2007	0.11	ND	14.0	9.2	1.59	1.04	1.3	ND
MAY -2007	0.14	ND	9.9	6.2	2.02	1.18	2.7	<0.4
JUNE -2007	ND	ND	10.7	6.6	1.92	1.20	2.3	ND
JULY -2007	0.21	ND	12.6	6.8	1.81	1.16	2.0	ND
AUGUST -2007	0.13	ND	12.8	9.3	1.84	1.17	1.5	ND
SEPTEMBER-2007	0.17	ND	14.4	8.7	1.92	1.08	1.5	ND
OCTOBER -2007	0.29	ND	10.9	7.3	1.60	0.86	1.1	ND
NOVEMBER -2007	<0.09	ND	11.4	7.3	1.59	0.73	1.1	ND
DECEMBER -2007	ND	ND	16.4	9.8	1.80	1.07	<0.4	ND
=====								
AVERAGE	0.10	ND	13.2	8.6	1.76	1.07	1.4	0.0

Analyte:	Thallium	Thallium	Zinc	Zinc
MDL	3.9	3.9	.41	.41
Units	UG/L	UG/L	UG/L	UG/L
Source:	PLR	PLE	PLR	PLE
=====				
JANUARY -2007	ND	ND	156	21
FEBRUARY -2007	ND	ND	86	21
MARCH -2007	ND	ND	148	18
APRIL -2007	ND	ND	168	21
MAY -2007	ND	ND	154	13
JUNE -2007	ND	ND	172	16
JULY -2007	<3.9	ND	175	25
AUGUST -2007	<3.9	ND	167	22
SEPTEMBER-2007	<3.9	ND	162	22
OCTOBER -2007	<3.9	ND	153	21
NOVEMBER -2007	ND	ND	147	19
DECEMBER -2007	ND	<3.9	127	17
=====				
AVERAGE	0.0	0.0	151	20

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

POINT LOMA WASTEWATER TREATMENT PLANT
 ANNUAL SEWAGE
 Ammonia-Nitrogen and Total Cyanides
 (Limits shown are the 6-Month Median Maximum)

From: 01-JAN-2007 to: 31-DEC-2007

	Ammonia-N .3 MG/L PLR	Ammonia-N .3 MG/L PLE 123	Cyanides, Total .002 MG/L PLR	Cyanides, Total .002 MG/L PLE 0.200
Limit:				
JANUARY -2007	31.0	31.2	<0.0020	<0.0020
FEBRUARY -2007	31.4	31.0	<0.0020	0.0025
MARCH -2007	31.2	31.0	<0.0020	ND
APRIL -2007	33.1	32.7	<0.0020	ND
MAY -2007	32.2	31.7	ND	ND
JUNE -2007	32.9	32.5	ND	ND
JULY -2007	32.7	32.2	<0.0020	ND
AUGUST -2007	31.7	30.5	ND	ND
SEPTEMBER-2007	31.8	31.4	<0.0020	<0.0020
OCTOBER -2007	32.7	31.7	ND	<0.0020
NOVEMBER -2007	31.2	30.6	ND	<0.0020
DECEMBER -2007	29.3	28.5	ND	ND
Average:	31.8	31.3	0.0000	0.0002

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SEWAGE
Radioactivity

From: 01-JAN-2007 to: 31-DEC-2007

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
PLE	JANUARY -2007	0.6±0.9	5.5±3.1
PLE	FEBRUARY -2007	1.5±1.0	23.9±5.2
PLE	MARCH -2007	2.3±1.8	27.7±5.9
PLE	APRIL -2007	2.8±2.5	26.3±5.7
PLE	MAY -2007	1.1±0.9	29.8±6.4
PLE	JUNE -2007	1.5±0.8	20.7±6.2
PLE	JULY -2007	1.1±0.9	28.6±6.5
PLE	AUGUST -2007	1.4±1.0	27.5±7.8
PLE	SEPTEMBER-2007	0.8±0.8	25.4±6.0
PLE	OCTOBER -2007	0.2±0.5	28.0±7.2
PLE	NOVEMBER -2007	2.5±1.4	24.8±5.5
PLE	DECEMBER -2007	1.1±0.8	19.5±4.6
AVERAGE		1.4±1.1	24.0±5.8

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
PLR	JANUARY -2007	3.7±1.7	11.7±3.8
PLR	FEBRUARY -2007	4.1±1.6	27.0±5.8
PLR	MARCH -2007	3.5±2.3	21.4±4.9
PLR	APRIL -2007	6.5±3.5	25.3±5.5
PLR	MAY -2007	3.8±1.8	26.9±6.7
PLR	JUNE -2007	3.9±1.7	20.5±5.4
PLR	JULY -2007	3.2±1.6	29.1±6.3
PLR	AUGUST -2007	3.2±1.6	26.9±6.5
PLR	SEPTEMBER-2007	4.1±1.8	25.8±6.5
PLR	OCTOBER -2007	3.2±1.6	34.6±8.9
PLR	NOVEMBER -2007	1.5±1.1	29.4±6.9
PLR	DECEMBER -2007	2.6±1.3	24.8±4.9
AVERAGE		3.6±1.8	25.3±6.0

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

Units in picocuries/liter (pCi/L)

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

From 01-JAN-2007 To 31-DEC-2007

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average
Aldrin	60	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	20	NG/L	ND	ND	ND	ND	ND	ND	<3	ND	ND	ND	ND	ND	0
BHC, Gamma isomer	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	<5	ND	ND	ND	0
BHC, Delta isomer	20	NG/L	ND	ND	ND	ND	ND	ND	<3	ND	ND	ND	ND	ND	0
p,p-DDD	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	20	NG/L	ND	ND	ND	<4	<4	ND	ND	ND	ND	ND	ND	ND	0
p,p-DDT	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	100	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	80	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cis Nonachlor	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	60	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1232	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1262	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin + Dieldrin	60	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	20	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
DDT and derivatives	100	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlordane + related cmpds	80	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Endosulfans	30	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Heptachlors	20	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlorinated Hydrocarbons	4000	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

From 01-JAN-2007 To 31-DEC-2007

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average	
Aldrin	60	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	10	NG/L	12	ND	ND	5	<5	ND	ND	ND	ND	ND	ND	ND	<5	1
BHC, Delta isomer	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	20	NG/L	ND	ND	ND	12	17	12	5	ND	11	ND	ND	ND	ND	5
p,p-DDT	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	100	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	<8	ND	ND	ND	0
Heptachlor epoxide	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND	0
Gamma (trans) Chlordane	80	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	ND	ND	ND	0
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	ND	ND	ND	1
Cis Nonachlor	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	60	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1232	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1262	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
=====																
Aldrin + Dieldrin	60	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	20	NG/L	12	0	0	5	0	0	0	0	0	0	0	0	0	1
DDT and derivatives	100	NG/L	0	0	0	12	17	12	5	0	11	0	0	0	0	5
Chlordane + related cmpds	80	NG/L	0	0	0	0	0	0	0	0	0	9	0	0	0	1
Polychlorinated biphenyls	4000	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Endosulfans	30	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0
=====																
Heptachlors	20	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0
=====																
Chlorinated Hydrocarbons	4000	NG/L	12	0	0	17	17	12	5	0	11	15	0	0	0	7

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEMI-ANNUAL SLUDGE PROJECT- Organophosphorus Pesticides EPA Method 614/622 (with additions)

From 01-JAN-2007 To 31-DEC-2007

Analyte	MDL Units	PLE	PLE	PLE	PLR	PLR
		08-MAY-2007 P380432	17-JUL-2007 P392644	02-OCT-2007 P399261	08-MAY-2007 P380437	02-OCT-2007 P399266
Demeton O	.15 UG/L	ND	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	ND	ND	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND	ND
Malathion	.03 UG/L	ND	ND	ND	ND	ND
Parathion	.03 UG/L	ND	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.0	0.0	0.0	0.0	0.0
Demeton -O, -S	.15 UG/L	0.0	0.0	0.0	0.0	0.0
Total Organophosphorus Pesticides	.3 UG/L	0.0	0.0	0.0	0.0	0.0
Tetraethylpyrophosphate	UG/L	NA	NA	NA	NA	NA
Dichlorvos	.05 UG/L	ND	ND	ND	ND	ND
Dibrom	.2 UG/L	ND	ND	ND	ND	ND
Ethoprop	.04 UG/L	ND	ND	ND	ND	ND
Phorate	.04 UG/L	ND	ND	ND	ND	ND
Sulfotepp	.04 UG/L	ND	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND	ND
Monocrotophos	UG/L	NA	NA	NA	NA	NA
Dimethoate	.04 UG/L	ND	ND	ND	ND	ND
Ronnel	.03 UG/L	ND	ND	ND	ND	ND
Trichloronate	.04 UG/L	ND	ND	ND	ND	ND
Merphos	.09 UG/L	ND	ND	ND	ND	ND
Dichlofenthion	.03 UG/L	ND	ND	ND	ND	ND
Tokuthion	.06 UG/L	ND	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND	ND
Bolstar	.07 UG/L	ND	ND	ND	ND	ND
Fensulfothion	.07 UG/L	ND	ND	ND	ND	ND
EPN	.09 UG/L	ND	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND	ND
Mevinphos, e isomer	.05 UG/L	ND	ND	ND	ND	ND
Mevinphos, z isomer	.3 UG/L	ND	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEMI-ANNUAL SLUDGE PROJECT- Organophosphorus Pesticides EPA Method 614/622 (with additions)

From 01-JAN-2007 To 31-DEC-2007

Analyte	MDL Units	MBC_COMBCN	MBC_COMBCN	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_RSL
		08-MAY-2007 P380447	02-OCT-2007 P399276	08-MAY-2007 P380502	02-OCT-2007 P399330	08-MAY-2007 P380500
Demeton O	.15 UG/L	ND	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	ND	ND	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND	ND
Malathion	.03 UG/L	ND	ND	ND	ND	ND
Parathion	.03 UG/L	ND	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.0	0.0	0.0	0.0	0.0
Demeton -O, -S	.15 UG/L	0.0	0.0	0.0	0.0	0.0
Total Organophosphorus Pesticides	.3 UG/L	0.0	0.0	0.0	0.0	0.0
Tetraethylpyrophosphate	UG/L	NA	NA	NA	NA	NA
Dichlorvos	.05 UG/L	ND	ND	ND	ND	ND
Dibrom	.2 UG/L	ND	ND	ND	ND	ND
Ethoprop	.04 UG/L	ND	ND	ND	ND	ND
Phorate	.04 UG/L	ND	ND	ND	ND	ND
Sulfotepp	.04 UG/L	ND	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND	ND
Monocrotophos	UG/L	NA	NA	NA	NA	NA
Dimethoate	.04 UG/L	ND	ND	ND	ND	ND
Ronnel	.03 UG/L	ND	ND	ND	ND	ND
Trichloronate	.04 UG/L	ND	ND	ND	ND	ND
Merphos	.09 UG/L	ND	ND	ND	ND	ND
Dichlofenthion	.03 UG/L	ND	ND	ND	ND	ND
Tokuthion	.06 UG/L	ND	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND	ND
Bolstar	.07 UG/L	ND	ND	ND	ND	ND
Fensulfothion	.07 UG/L	ND	ND	ND	ND	ND
EPN	.09 UG/L	ND	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND	ND
Mevinphos, e isomer	.05 UG/L	ND	ND	ND	ND	ND
Mevinphos, z isomer	.3 UG/L	ND	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEMI-ANNUAL SLUDGE PROJECT- Organophosphorus Pesticides EPA Method 614/622 (with additions)

From 01-JAN-2007 To 31-DEC-2007

Analyte	MDL Units	MBC NC RSL	RAW COMP	RAW COMP	DIG COMP	DIG COMP
		02-OCT-2007 P399328	08-MAY-2007 P380472	02-OCT-2007 P399301	08-MAY-2007 P380486	02-OCT-2007 P399315
Demeton O	.15 UG/L	ND	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	ND	ND	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND	ND
Malathion	.03 UG/L	ND	ND	ND	ND	ND
Parathion	.03 UG/L	ND	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.0	0.0	0.0	0.0	0.0
Demeton -O, -S	.15 UG/L	0.0	0.0	0.0	0.0	0.0
Total Organophosphorus Pesticides	.3 UG/L	0.0	0.0	0.0	0.0	0.0
Tetraethylpyrophosphate	UG/L	NA	NA	NA	NA	NA
Dichlorvos	.05 UG/L	ND	ND	ND	ND	ND
Dibrom	.2 UG/L	ND	ND	ND	ND	ND
Ethoprop	.04 UG/L	ND	ND	ND	ND	ND
Phorate	.04 UG/L	ND	ND	ND	ND	ND
Sulfotepp	.04 UG/L	ND	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND	ND
Monocrotophos	UG/L	NA	NA	NA	NA	NA
Dimethoate	.04 UG/L	ND	ND	ND	ND	ND
Ronnel	.03 UG/L	ND	ND	ND	ND	ND
Trichloronate	.04 UG/L	ND	ND	ND	ND	ND
Merphos	.09 UG/L	ND	ND	ND	ND	ND
Dichlofenthion	.03 UG/L	ND	ND	ND	ND	ND
Tokuthion	.06 UG/L	ND	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND	ND
Bolstar	.07 UG/L	ND	ND	ND	ND	ND
Fensulfothion	.07 UG/L	ND	ND	ND	ND	ND
EPN	.09 UG/L	ND	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND	ND
Mevinphos, e isomer	.05 UG/L	ND	ND	ND	ND	ND
Mevinphos, z isomer	.3 UG/L	ND	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SEWAGE MONTHLY - Tributyl Tin analysis

From 01-JAN-2007 To 31-DEC-2007

Analyte	MDL Units		PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	Average
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Dibutyl tin	7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monobutyl Tin	16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tributyl tin	2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL Units		PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	Average
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Dibutyl tin	7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monobutyl Tin	16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tributyl tin	2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

nd=not detected, NS=not sampled, NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL - Acid Extractables

From 01-JAN-2007 to 31-DEC-2007

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	Average
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	
2-chlorophenol	1.76	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	1.95	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.34	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.3	ND	0.0
2,4,6-trichlorophenol	1.75	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	5.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	2.53	UG/L	16.8	13.8	13.5	14.8	13.0	11.8	9.8	8.0	11.1	9.5	13.0	10.8	12.2
2-nitrophenol	1.88	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	6.07	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrophenol	3.17	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	4.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols	5.87	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	6.07	UG/L	16.8	13.8	13.5	14.8	13.0	11.8	9.8	8.0	11.1	9.5	13.0	10.8	12.2
Phenols	6.07	UG/L	16.8	13.8	13.5	14.8	13.0	11.8	9.8	8.0	11.1	9.5	13.0	10.8	12.2

Additional analytes determined;

2-methylphenol	1.51	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND
4-methylphenol(3-MP is unresolved)	4.22	UG/L	46.1	32.1	31.6	32.8	28.0	24.4	21.2	18.0	21.3	23.3	34.0	32.0	28.7
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.7	ND	0.0

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	Average
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	
2-chlorophenol	1.76	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	1.95	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.34	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-trichlorophenol	1.75	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	5.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	2.53	UG/L	16.6	20.6	16.6	17.6	19.5	17.7	14.1	14.7	15.4	17.2	19.4	15.4	17.1
2-nitrophenol	1.88	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	6.07	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrophenol	3.17	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	4.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols	5.87	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	6.07	UG/L	16.6	20.6	16.6	17.6	19.5	17.7	14.1	14.7	15.4	17.2	19.4	15.4	17.1
Phenols	6.07	UG/L	16.6	20.6	16.6	17.6	19.5	17.7	14.1	14.7	15.4	17.2	19.4	15.4	17.1

Additional analytes determined;

2-methylphenol	1.51	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND
4-methylphenol(3-MP is unresolved)	4.22	UG/L	50.3	52.9	40.8	42.6	40.4	39.4	29.9	36.7	33.9	46.2	55.0	49.1	43.1
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL Priority Pollutants Base/Neutrals

From 01-JAN-2007 to 31-DEC-2007

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
bis(2-chloroethyl) ether	2.62	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	8.95	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.63	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	3.55	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	1.93	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.57	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	4.9	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	2.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	2.02	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	3.26	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.93	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	2.2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrotoluene	1.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	2.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	3.62	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	6.97	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	2.96	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	4.04	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	4.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	4.15	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	4.04	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	6.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	2.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	6.9	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	5.19	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	4.77	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	7.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]anthracene	7.68	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	10.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	8.59	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	7.36	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	6.63	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]pyrene	6.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	6.27	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	6.19	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	6.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	2.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chloronaphthalene	2.41	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	7.68	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	10.43	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Additional analytes determined;

1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	2.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	3.31	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	6.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[e]pyrene	7.67	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perylene	6.61	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	2.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL Priority Pollutants Base/Neutrals

From 01-JAN-2007 to 31-DEC-2007

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
bis(2-chloroethyl) ether	2.62	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	8.95	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.63	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	3.55	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	1.93	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.57	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	4.9	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	2.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	2.02	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	3.26	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.93	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	2.2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrotoluene	1.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	2.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	3.62	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	6.97	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	2.96	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	4.04	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	4.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	4.15	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	4.04	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	6.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	2.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	6.9	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	5.19	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	4.77	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	7.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]anthracene	7.68	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	10.43	UG/L	27.1	26.0	12.7	ND	ND	24.9	24.8	34.8	15.5	46.7	ND	16.3	19.1
Di-n-octyl phthalate	8.59	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	7.36	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	6.63	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]pyrene	6.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	6.27	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	6.19	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	6.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	2.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chloronaphthalene	2.41	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	7.68	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	10.43	UG/L	27.1	26.0	12.7	0.0	0.0	24.9	24.8	34.8	15.5	46.7	0.0	16.3	19.1

Additional analytes determined;

1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	2.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	3.31	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	6.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[e]pyrene	7.67	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perylene	6.61	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	2.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL Priority Pollutants Purgeables

From 01-JAN-2007 to 31-DEC-2007

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
Chloromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichlorobenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	0.1
1,3-dichlorobenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	1	UG/L	1.8	1.9	1.5	1.3	1.9	1.7	1.4	1.4	1.1	ND	1.3	1.1	1.4
Bromomethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane		UG/L	*	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	1	UG/L	1.9	3.4	1.5	4.5	2.3	2.5	1.9	3.7	1.8	1.9	3.1	1.4	2.5
1,1-dichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1	UG/L	3.2	5.1	4.2	3.1	4.7	3.9	4.1	4.5	3.5	3.9	4.2	2.3	3.9
1,2-dichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	0.2
1,1,2-trichloroethane	1	UG/L	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	0.1
cis-1,3-dichloropropene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chloroethylvinyl ether	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-tetrachloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	0.2
Toluene	1	UG/L	2.3	1.9	1.1	1.0	1.5	ND	ND	1.4	ND	ND	3.2	1.3	1.1
Chlorobenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	13.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	11.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	1	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dichlorobenzenes	1	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.1
Purgeable Compounds	13.8	UG/L	9.2	12.3	8.3	9.9	11.5	8.1	7.4	11.0	6.4	7.0	11.8	10.1	9.4
Additional compounds determined;															
Allyl chloride	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone	6.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
meta,para xylenes	3.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	4.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	4.9	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Iodide	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroprene	1.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl methacrylate	4.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-nitropropane	10	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dibromoethane	3.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl chloride	7.2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ortho-xylene	3.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	20	UG/L	905	1060	1890	330	1010	599	841	2820	501	405	676	549	966
Carbon disulfide	1	UG/L	1.0	4.6	1.0	ND	1.2	1.2	1.2	3.9	1.1	ND	1.0	ND	1.4
2-butanone	4	UG/L	ND	5.0	<4.0	5.1	6.4	5.0	ND	4.2	ND	4.4	4.4	ND	2.9
Methyl tert-butyl ether	1	UG/L	1.6	1.5	1.5	1.7	1.9	1.5	1.3	1.7	2.0	ND	2.0	1.6	1.5

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL Priority Pollutants Purgeables

From 01-JAN-2007 to 31-DEC-2007

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
Chloromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichlorobenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7	ND	ND	0.2
1,3-dichlorobenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	1	UG/L	1.7	2.2	1.6	1.7	2.0	1.7	1.5	1.3	1.2	ND	1.2	1.5	1.5
Bromomethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane		UG/L	*	*	*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	1	UG/L	1.5	2.6	1.6	2.5	2.0	1.9	1.7	2.7	1.6	1.5	2.6	1.2	2.0
1,1-dichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1	UG/L	3.2	5.4	4.8	2.7	3.9	3.5	3.9	4.2	3.0	3.0	3.9	2.6	3.7
1,2-dichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chloroethylvinyl ether	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	0.2
Toluene	1	UG/L	1.0	ND	ND	ND	1.1	ND	2.8	ND	ND	ND	1.7	1.2	0.7
Chlorobenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	13.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	11.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	1	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dichlorobenzenes	1	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.2
Purgeable Compounds	13.8	UG/L	7.4	10.2	8.0	6.9	9.0	7.1	9.9	8.2	5.8	7.2	9.4	8.5	8.1

Additional compounds determined;

Allyl chloride	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone	6.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
meta,para xylenes	3.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	4.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	4.9	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Iodide	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroprene	1.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl methacrylate	4.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-nitropropane	10	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dibromoethane	3.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl chloride	7.2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ortho-xylene	3.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	20	UG/L	422	920	1030	446	739	886	1070	1610	728	534	1290	398	839
Carbon disulfide	1	UG/L	1.2	1.2	ND	ND	1.3	12.0	1.2	1.4	ND	1.1	ND	ND	1.6
2-butanone	4	UG/L	ND	7.6	ND	ND	5.2	ND	ND	<4.0	ND	ND	ND	ND	1.1
Methyl tert-butyl ether	1	UG/L	1.9	1.3	1.6	1.7	2.1	1.5	1.0	2.4	2.7	ND	2.1	1.9	1.7

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

POINT LOMA WASTEWATER TREATMENT PLANT
Annual Sewage Dioxin and Furan Analysis

From 01-JAN-2007 to 31-DEC-2007

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	
			TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
			P370961	P370589	P377110	P381659	P380432	P388864	P392644	P392059	P400006	
2,3,7,8-tetra CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,7,8-penta CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,4,7,8-hexa CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,6,7,8-hexa CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,7,8,9-hexa CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,4,6,7,8-hepta CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
octa CDD	1000	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,3,7,8-tetra CDF	250	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,7,8-penta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,3,4,7,8-penta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,4,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,6,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,7,8,9-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,4,6,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,4,6,7,8-hepta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,4,7,8,9-hepta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
octa CDF	1000	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Analyte	MDL	Units	PLE	PLE	PLE
			TCDD	TCDD	TCDD
			OCT	NOV	DEC
			P399261	P407920	P411681
2,3,7,8-tetra CDD	500	PG/L	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	ND	ND	ND
1,2,3,4,7,8-hexa CDD	500	PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	ND	ND	ND
octa CDD	1000	PG/L	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	ND	ND	ND
octa CDF	1000	PG/L	ND	ND	ND

Above are permit required CDD/CDF isomers.
nd= not detected
NA= not analyzed NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT
Annual Sewage Dioxin and Furan Analysis

From 01-JAN-2007 to 31-DEC-2007

Analyte	MDL	Units	Equip	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
				P370961	P370589	P377110	P381659	P380432	P388864	P392644	P392059	P400006
2,3,7,8-tetra CDD	500	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDD	1000	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	1000	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	Equip	PLE	PLE	PLE
				OCT	NOV	DEC
				P399261	P407920	P411681
2,3,7,8-tetra CDD	500	PG/L	1.000	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	500	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	0.010	ND	ND	ND
octa CDD	1000	PG/L	0.001	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	0.100	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	0.050	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	0.100	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	0.010	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	0.010	ND	ND	ND
octa CDF	1000	PG/L	0.001	ND	ND	ND

Above are permit required CDD/CDF isomers.
nd= not detected
NA= not analyzed NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT
Annual Sewage Dioxin and Furan Analysis

From 01-JAN-2007 to 31-DEC-2007

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	
			TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
			P370964	P370594	P377113	P381662	P380437	P388867	P392647	P392064	P400009	
2,3,7,8-tetra CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,7,8-penta CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,4,7,8_hexa_CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,6,7,8-hexa CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,7,8,9-hexa CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,4,6,7,8-hepta CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
octa CDD	1000	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,3,7,8-tetra CDF	250	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,7,8-penta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,3,4,7,8-penta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,4,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,6,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,7,8,9-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2,3,4,6,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,4,6,7,8-hepta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,3,4,7,8,9-hepta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	
octa CDF	1000	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Analyte	MDL	Units	PLR	PLR	PLR
			TCDD	TCDD	TCDD
			OCT	NOV	DEC
			P399266	P407923	P411684
2,3,7,8-tetra CDD	500	PG/L	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	500	PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	ND	ND	ND
octa CDD	1000	PG/L	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	ND	ND	ND
octa CDF	1000	PG/L	ND	ND	ND

Above are permit required CDD/CDF isomers.
nd= not detected
NA= not analyzed NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT
Annual Sewage Dioxin and Furan Analysis

From 01-JAN-2007 to 31-DEC-2007

Analyte	MDL	Units	Equip	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
				P370964	P370594	P377113	P381662	P380437	P388867	P392647	P392064	P400009
2,3,7,8-tetra CDD	500	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDD	1000	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	1000	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	Equip	PLR	PLR	PLR
				OCT	NOV	DEC
				P399266	P407923	P411684
2,3,7,8-tetra CDD	500	PG/L	1.000	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	500	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa_CDD	500	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	0.010	ND	ND	ND
octa CDD	1000	PG/L	0.001	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	0.100	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	0.050	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	0.100	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	0.010	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	0.010	ND	ND	ND
octa CDF	1000	PG/L	0.001	ND	ND	ND

Above are permit required CDD/CDF isomers.
nd= not detected
NA= not analyzed NS= not sampled

2007
Point Loma Treatment Plant
Total Coliforms

The following are the monthly Total Coliform results of the Point Loma Treatment Plant Effluent. The value is stated in terms of Most Probable Number (MPN) per 100 milliliters of sample.

SAMPLE SOURCE (Pt. Loma Treatment Plant Effluent)

DATE	TOTAL COLIFORM (MPN Index/100ml)
January 11, 2007	5,000,000
February 15, 2007	22,000,000
March 7, 2007	50,000,000
April 12, 2007	30,000,000
May 10, 2007	13,000,000
June 5, 2007	23,000,000
July 11, 2007	7,900,000
August 1, 2007	23,000,000
September 11, 2007	7,900,000
October 2, 2007	23,000,000
November 7, 2007	7,900,000
December 7, 2007	22,000,000
Average	19,558,333

POINT LOMA WASTEWATER TREATMENT PLANT
From 01-JAN-2007 to 31-DEC-2007

MDL:	Total Hardness		Calcium Hardness		Magnesium Hardness		Calcium		Magnesium	
	.4 mg/L	mg/L	.2 mg/L	mg/L	.4 mg/L	mg/L	.04 mg/L	mg/L	.1 mg/L	mg/L
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2007	388	362	179	168	209	194	72	67	51	47
FEBRUARY -2007	419	400	205	196	214	205	82	78	52	50
MARCH -2007	406	404	199	197	207	208	80	79	50	51
APRIL -2007	370	369	180	177	191	191	72	71	46	46
MAY -2007	407	404	200	197	207	207	79	80	50	50
JUNE -2007	429	430	208	208	221	222	83	83	54	54
JULY -2007	416	398	204	194	213	203	82	78	52	49
AUGUST -2007	421	413	202	197	218	215	81	79	53	52
SEPTEMBER-2007	412	405	201	197	211	209	80	79	51	51
OCTOBER -2007	388	378	187	181	201	197	75	72	49	48
NOVEMBER -2007	354	356	170	170	184	186	68	68	45	45
DECEMBER -2007	394	387	190	184	204	203	76	74	50	49
Average:	400	392	194	189	207	203	78	76	50	49

MDL:	Alkalinity		Total Solids		Total Vol. Solids		Conductivity		Fluoride	
	20 mg/L	mg/L	100 mg/L	mg/L	100 mg/L	mg/L	10umhos/cm	mg/L	.05 mg/L	mg/L
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2007	266	246	1810	1590	462	249	2730	2800	0.69	0.75
FEBRUARY -2007	277	255	1910	1660	491	291	2840	2880	0.72	0.77
MARCH -2007	282	259	1880	1620	484	266	2740	2760	0.75	0.81
APRIL -2007	284	263	1960	1630	582	318	2770	2780	0.72	0.78
MAY -2007	286	257	1950	1670	536	303	2770	2780	0.67	0.69
JUNE -2007	292	270	2070	1710	568	297	2900	2870	0.71	0.73
JULY -2007	287	265	2000	1720	558	324	2750	2780	0.76	0.81
AUGUST -2007	274	247	1990	1690	546	306	2750	2750	0.69	0.70
SEPTEMBER-2007	279	257	1980	1650	577	308	2760	2760	0.69	0.70
OCTOBER -2007	284	261	1780	1530	469	268	2570	2570	0.56	0.58
NOVEMBER -2007	268	247	1780	1500	504	264	2560	2570	0.63	0.65
DECEMBER -2007	265	243	1810	1560	468	254	2700	2680	0.61	0.66
Average:	279	256	1910	1628	520	287	2737	2748	0.68	0.72

MDL:	Chloride		Bromide		Sulfate		Nitrate		Ortho Phosphate	
	7 mg/L	mg/L	.1 mg/L	mg/L	9 mg/L	mg/L	.04 mg/L	mg/L	.2 mg/L	mg/L
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2007	585	571	1.60	1.51	227	226	0.08	0.77	2.53	ND
FEBRUARY -2007	552	560	1.42	1.40	259	257	ND	0.78	5.54	ND
MARCH -2007	534	535	1.41	1.38	242	239	ND	0.73	4.88	ND
APRIL -2007	546	558	1.48	1.47	233	230	ND	0.13	5.35	1.69
MAY -2007	544	559	1.48	1.57	249	245	ND	ND	4.60	1.48
JUNE -2007	590	603	1.54	1.54	246	240	ND	1.23	6.07	1.89
JULY -2007	570	587	1.47	1.47	239	231	ND	1.33	5.29	1.61
AUGUST -2007	568	585	1.43	1.47	233	226	ND	0.47	5.92	2.33
SEPTEMBER-2007	543	557	1.41	1.37	243	236	ND	1.19	4.73	2.05
OCTOBER -2007	526	540	1.31	1.31	213	209	0.24	0.31	5.82	2.57
NOVEMBER -2007	524	540	1.32	1.32	204	198	0.13	0.47	4.09	1.15
DECEMBER -2007	518	535	1.33	1.35	237	234	ND	0.52	4.59	ND
Average:	550	561	1.43	1.43	235	231	0.04	0.66	4.95	1.23

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

POINT LOMA WASTEWATER TREATMENT PLANT
From 01-JAN-2007 To 31-DEC-2007

MDL:	Lithium		Sodium		Potassium		Chemical Oxygen Demand		Soluble BOD	
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2007	0.04	0.04	348	328	24.5	23.5	349	219	85	69
FEBRUARY -2007	0.05	0.05	337	327	24.8	23.4	422	208	84	69
MARCH -2007	0.04	0.04	337	334	24.5	24.4	437	210	87	70
APRIL -2007	0.03	0.03	333	331	24.5	24.3	601	224	85	68
MAY -2007	0.04	0.05	338	339	25.7	25.2	606	222	87	72
JUNE -2007	0.04	0.04	368	374	26.6	26.7	692	217	88	75
JULY -2007	0.04	0.04	356	337	25.8	23.9	511	180	84	72
AUGUST -2007	0.05	0.05	356	351	26.0	25.3	690	211	87	74
SEPTEMBER-2007	0.06	0.05	345	339	26.4	25.6	606	262	84	71
OCTOBER -2007	0.05	0.05	326	316	26.1	24.9	470	161	79	66
NOVEMBER -2007	0.04	0.04	313	314	24.6	24.6	516	185	85	62
DECEMBER -2007	0.04	0.04	335	331	24.3	24.0	519	187	81	57
Average:	0.04	0.04	341	335	25.3	24.7	535	207	85	69

MDL:	Total Dissolved Solids		Floatables		Turbidity		Aluminum		Barium	
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2007	1570	1550	1.1	0.1	117	44	1420	125	96	29
FEBRUARY -2007	1570	1560	1.2	0.1	133	44	396	96	76	40
MARCH -2007	1540	1530	2.3	0.2	134	47	1120	270	95	32
APRIL -2007	1570	1550	2.0	0.1	141	41	1230	272	102	31
MAY -2007	1620	1600	1.4	<1.4	136	41	1030	158	109	34
JUNE -2007	1670	1670	<1.4	ND	131	40	971	87	113	33
JULY -2007	1640	1650	<1.4	ND	136	42	1150	249	118	35
AUGUST -2007	1660	1650	<1.4	<1.4	132	42	1230	398	107	34
SEPTEMBER-2007	1580	1570	<1.4	ND	130	46	1080	232	110	38
OCTOBER -2007	1500	1490	<1.4	<1.4	131	48	1070	207	88	29
NOVEMBER -2007	1490	1470	<1.4	ND	141	46	1050	138	82	23
DECEMBER -2007	1530	1520	2.2	ND	141	47	927	157	83	27
Average:	1578	1568	0.9	0.0	134	44	1056	199	98	32

MDL:	Boron		Cobalt		Molybdenum		Manganese		Vanadium	
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2007	434	407	1.21	1.03	9	8	156	153	2.84	<0.64
FEBRUARY -2007	417	448	ND	ND	9	11	128	150	0.99	ND
MARCH -2007	401	423	3.17	1.28	11	10	124	141	2.36	ND
APRIL -2007	426	431	1.32	0.91	12	10	122	130	2.39	ND
MAY -2007	424	426	ND	ND	12	9	117	129	2.67	ND
JUNE -2007	442	450	ND	ND	12	10	134	162	2.15	ND
JULY -2007	416	413	1.23	<0.85	13	10	138	168	3.23	ND
AUGUST -2007	464	451	<0.85	<0.85	13	10	123	130	3.19	ND
SEPTEMBER-2007	409	423	ND	ND	10	7	114	124	1.15	ND
OCTOBER -2007	401	417	<0.85	ND	9	6	116	133	1.53	ND
NOVEMBER -2007	383	394	<0.85	ND	11	8	117	145	3.07	<0.64
DECEMBER -2007	454	457	ND	ND	10	8	117	132	1.31	ND
Average:	423	428	0.58	0.27	11	9	126	141	2.24	0.00

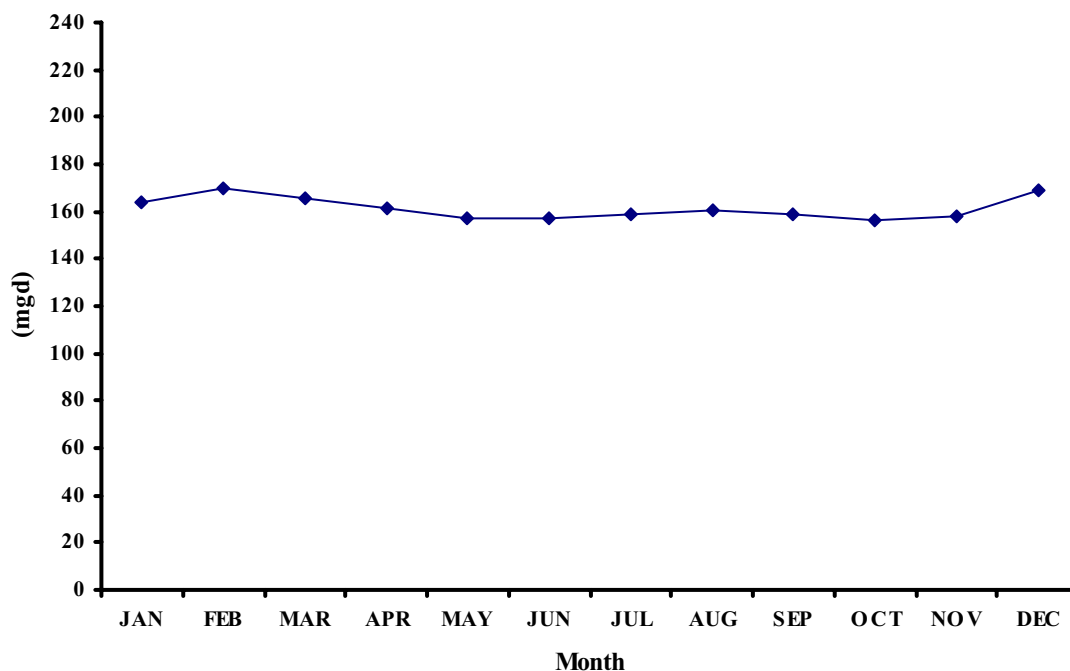
ND=not detected; NS=not sampled; NA=not analyzed

D. Influent and Effluent Graphs

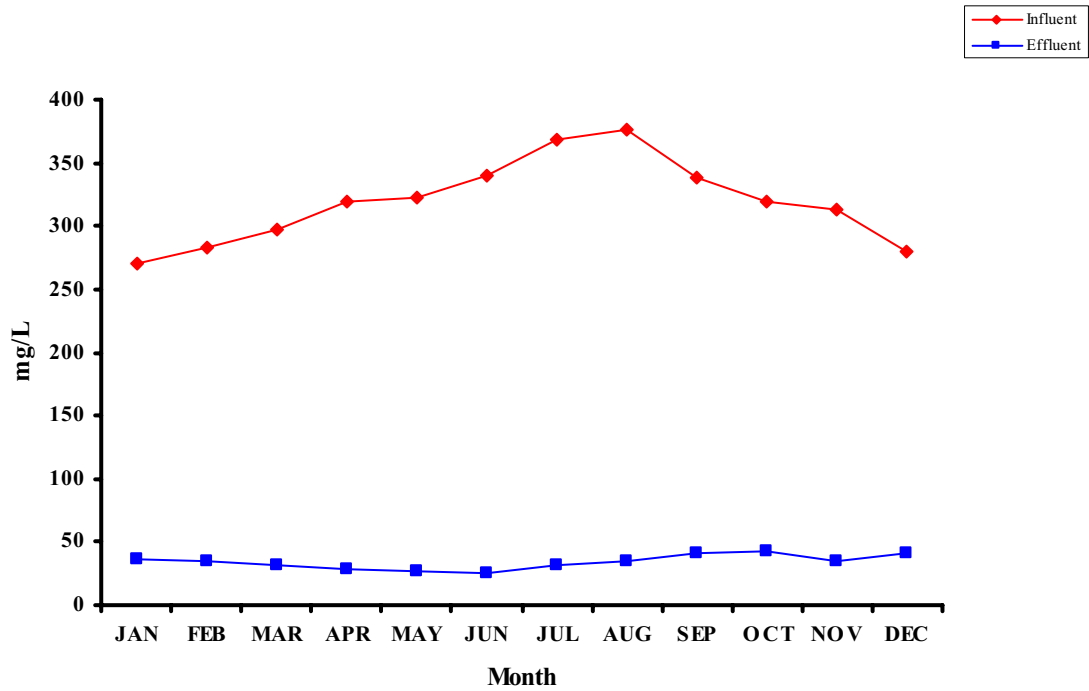
Graphs of monthly averages for permit parameters with measurable concentration averages.

Where possible, the influent and effluent values of a given parameter have been included on the same graph so that removals and other relationships are readily apparent. Please note that many of the graphs are on expanded scales. That is, they may not 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.

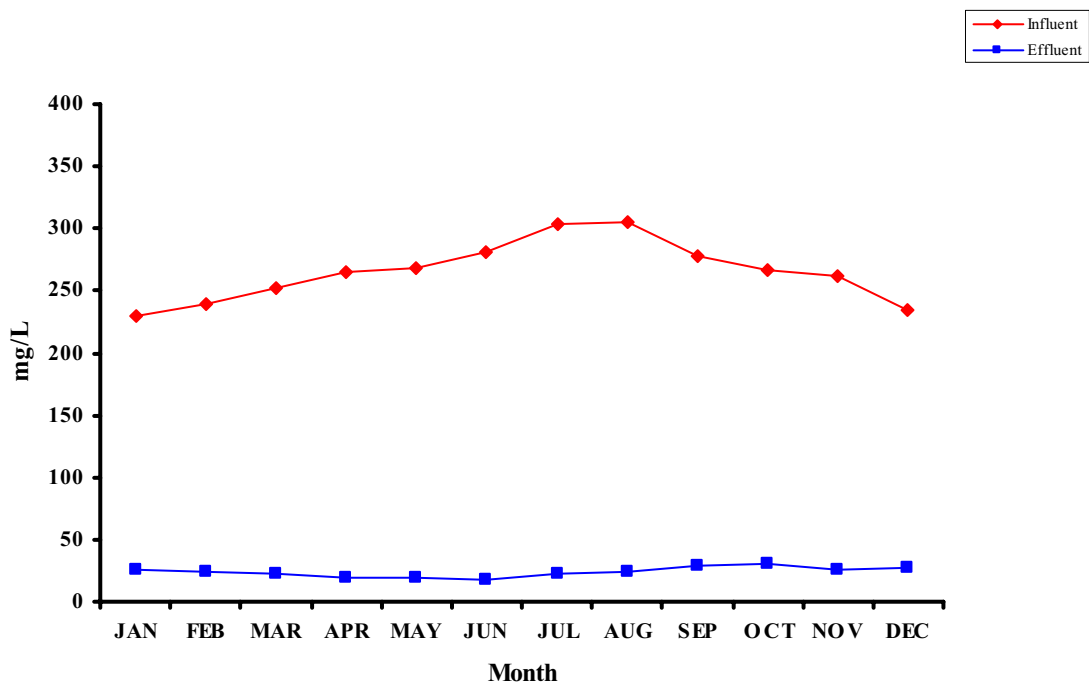
**PLWWTP Flows (mgd)
2007 Monthly Averages**



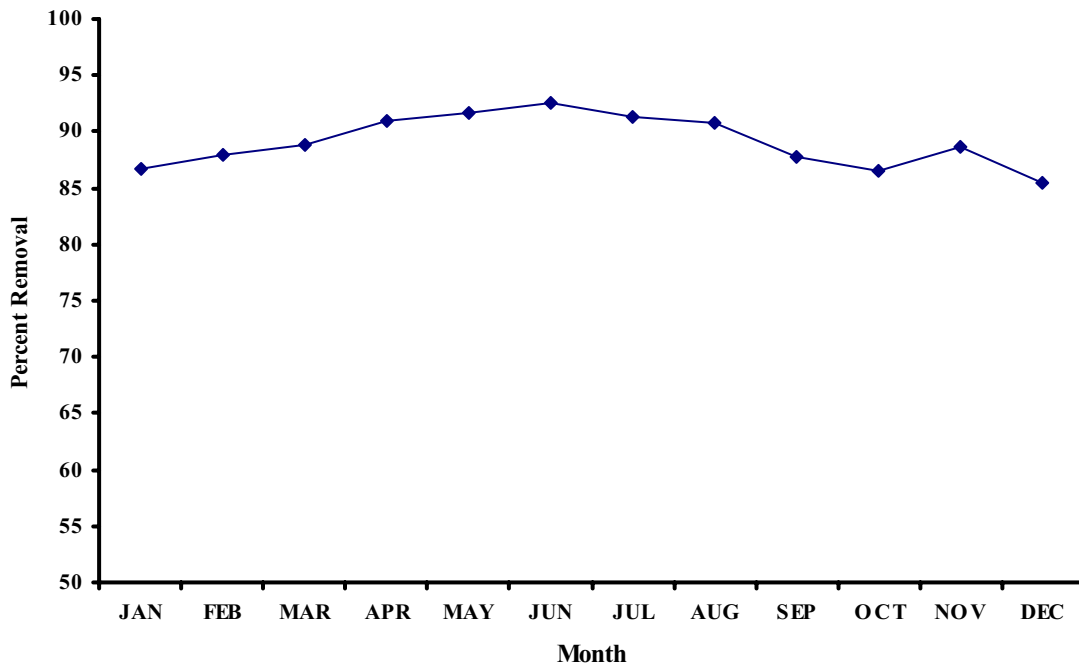
Total Suspended Solids (mg/L) 2007 Monthly Averages



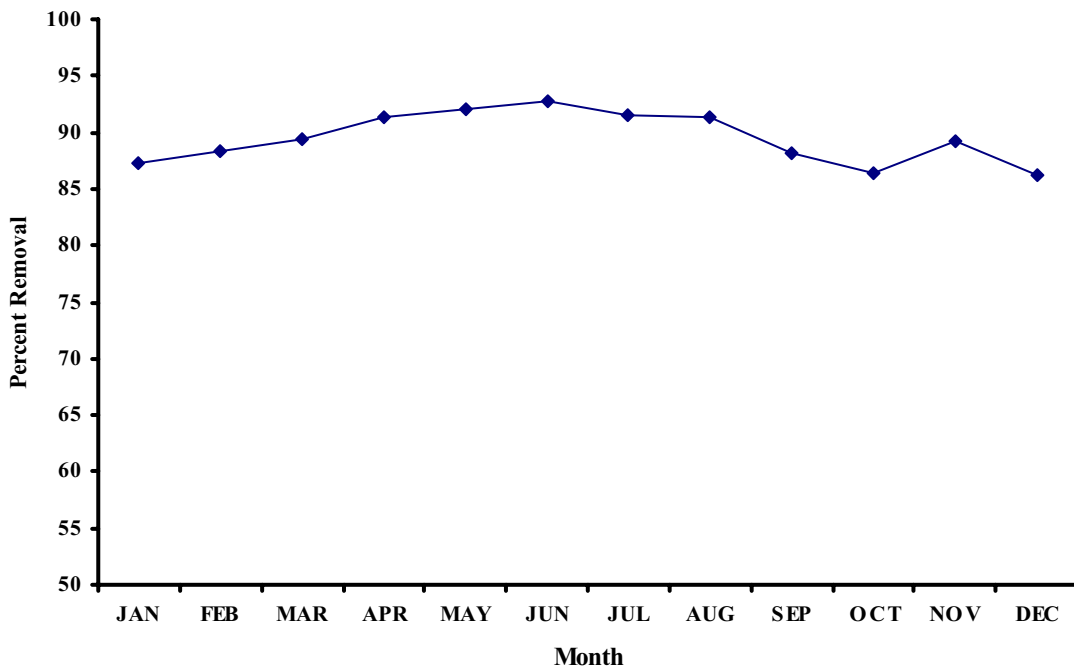
Volatile Suspended Solids (mg/L) 2007 Monthly Averages



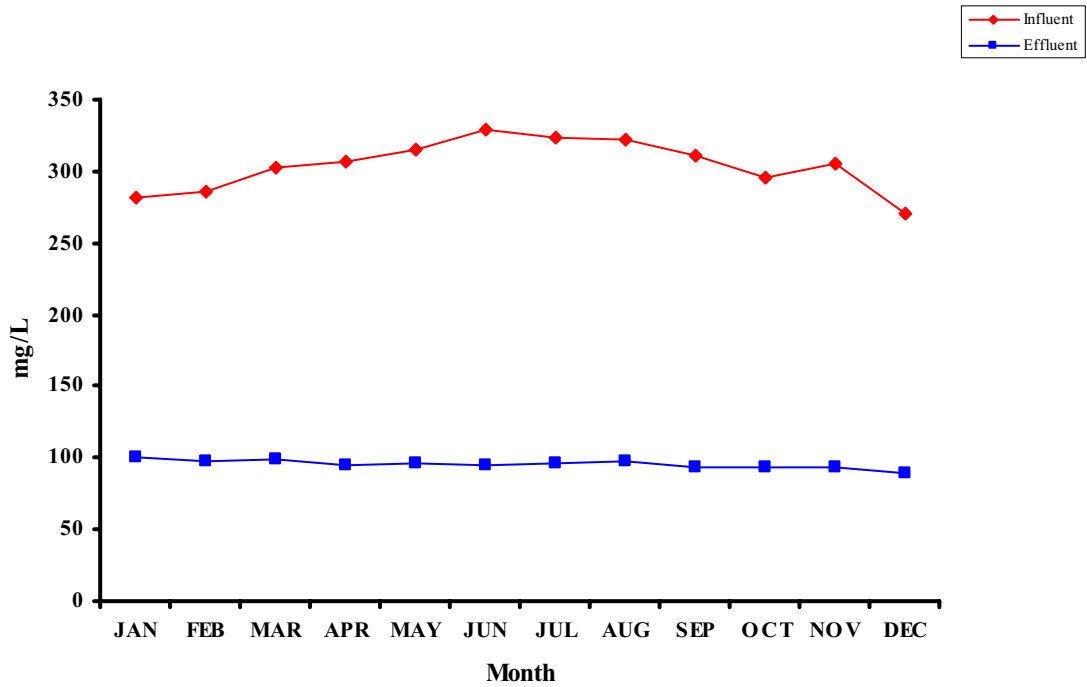
**Total Suspended Solids (%) Removal
2007 Monthly Averages at Point Loma**



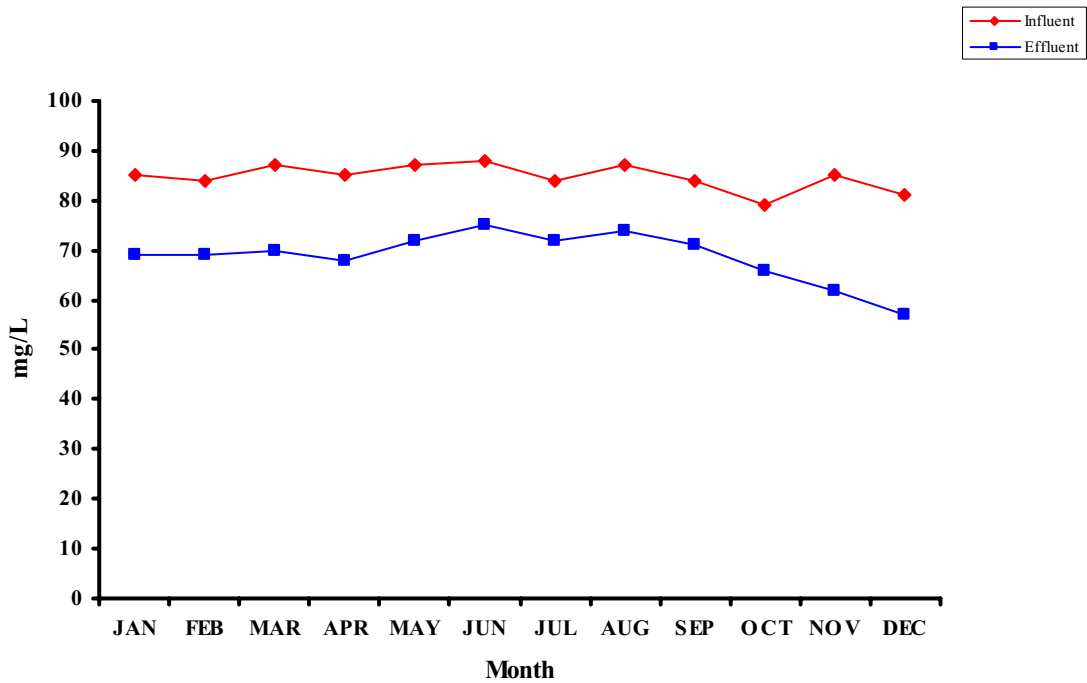
**Total Suspended Solids (%) Removal
2007 Monthly Averages Systemwide**



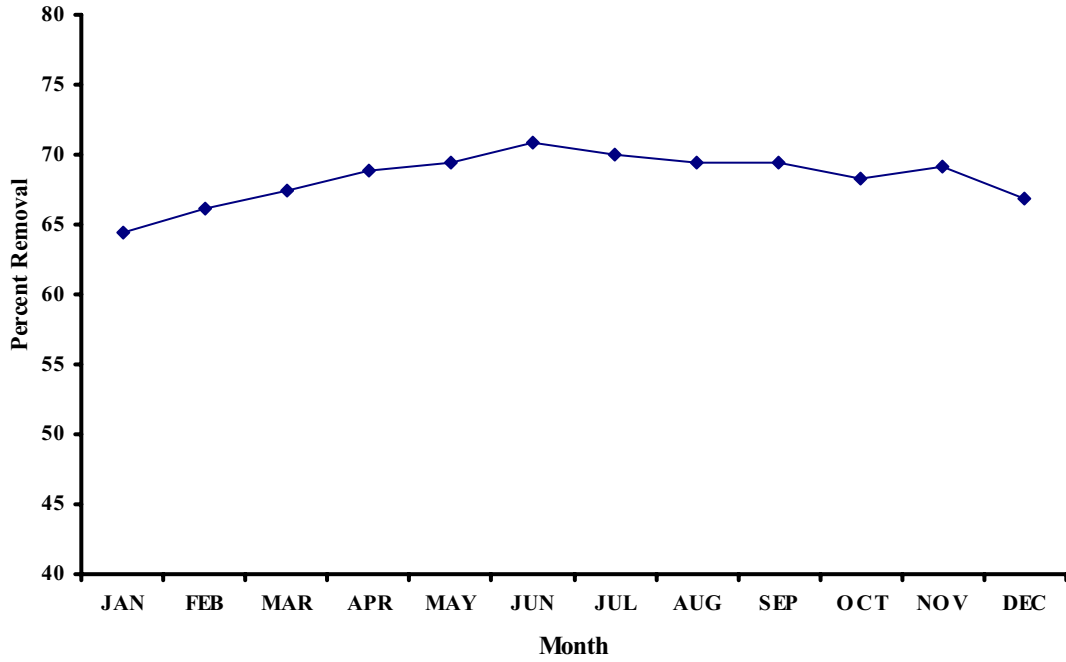
Biochemical Oxygen Demand 2007 Monthly Averages



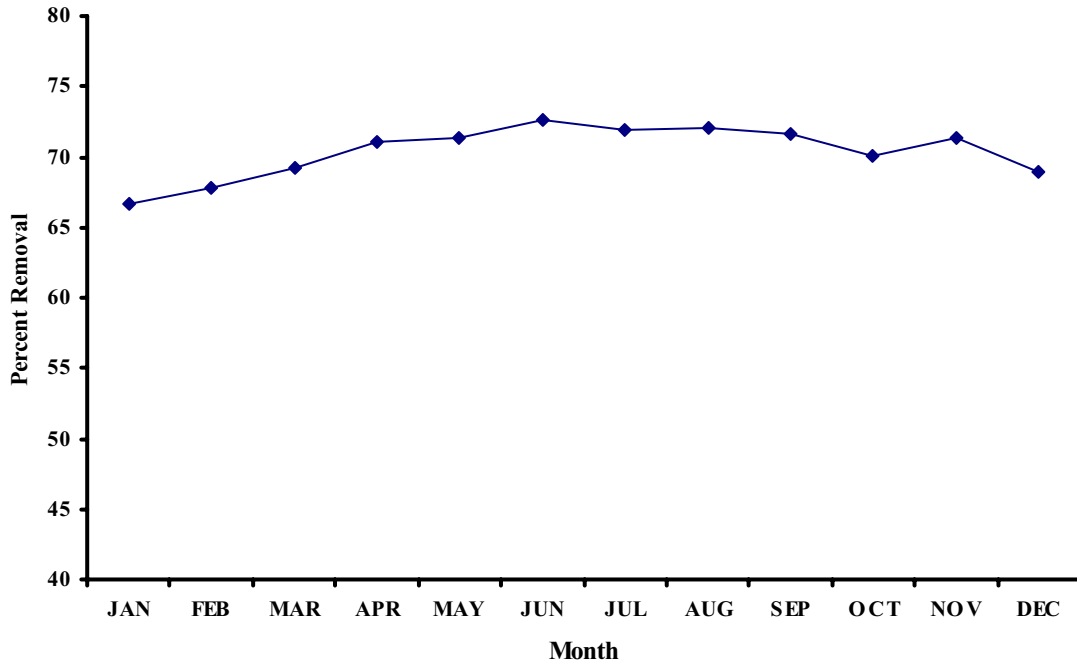
Soluble Biochemical Oxygen Demand 2007 Monthly Averages



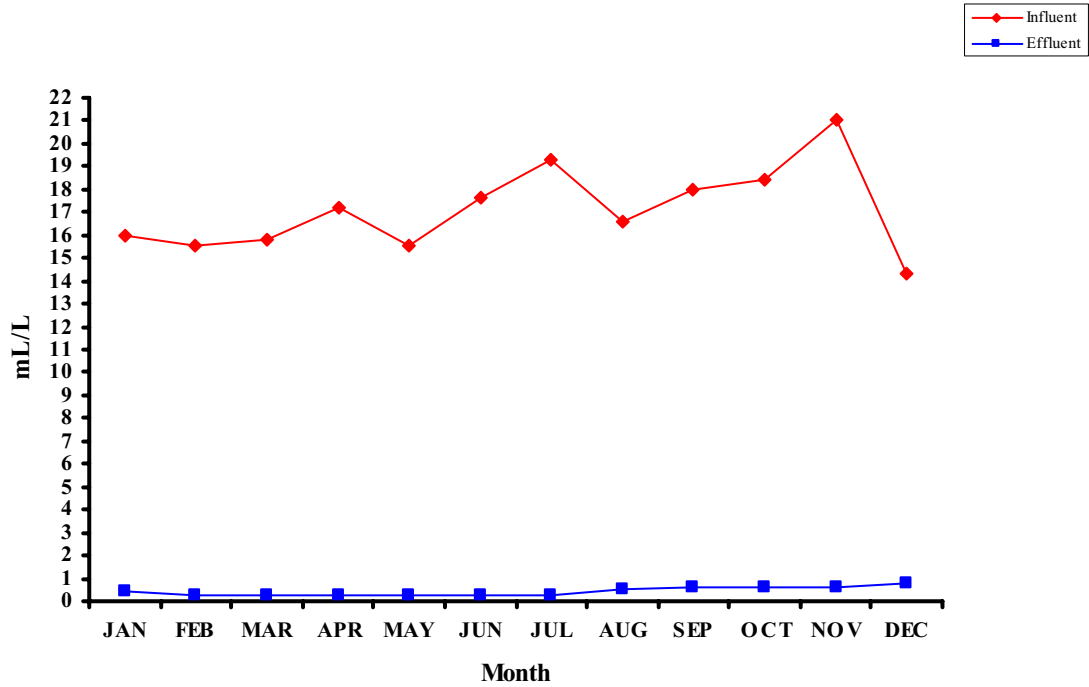
**Biochemical Oxygen Demand (%) Removal
2007 Monthly Averages at Point Loma**



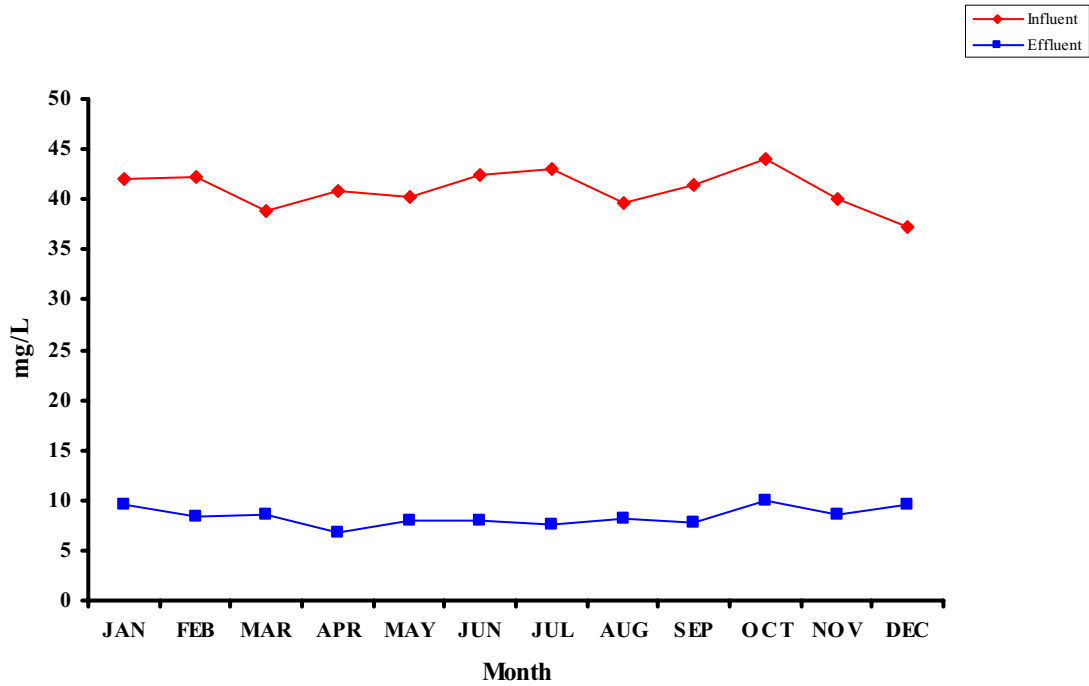
**Biochemical Oxygen Demand (%) Removal
2007 Monthly Averages Systemwide**



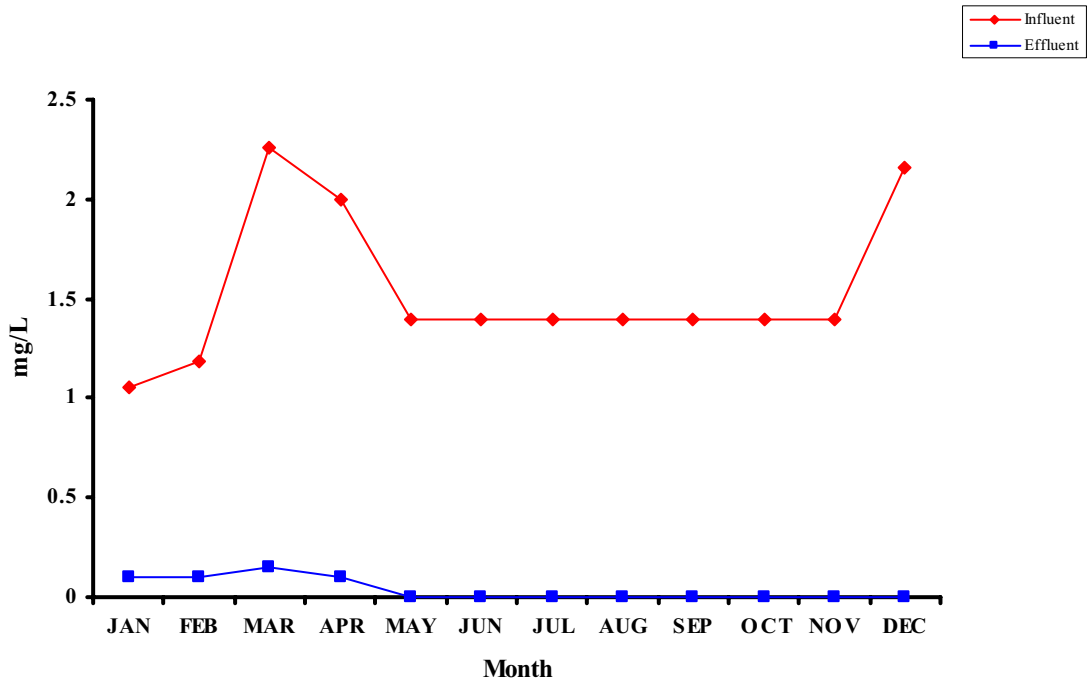
Settleable Solids (mL/L) 2007 Monthly Averages



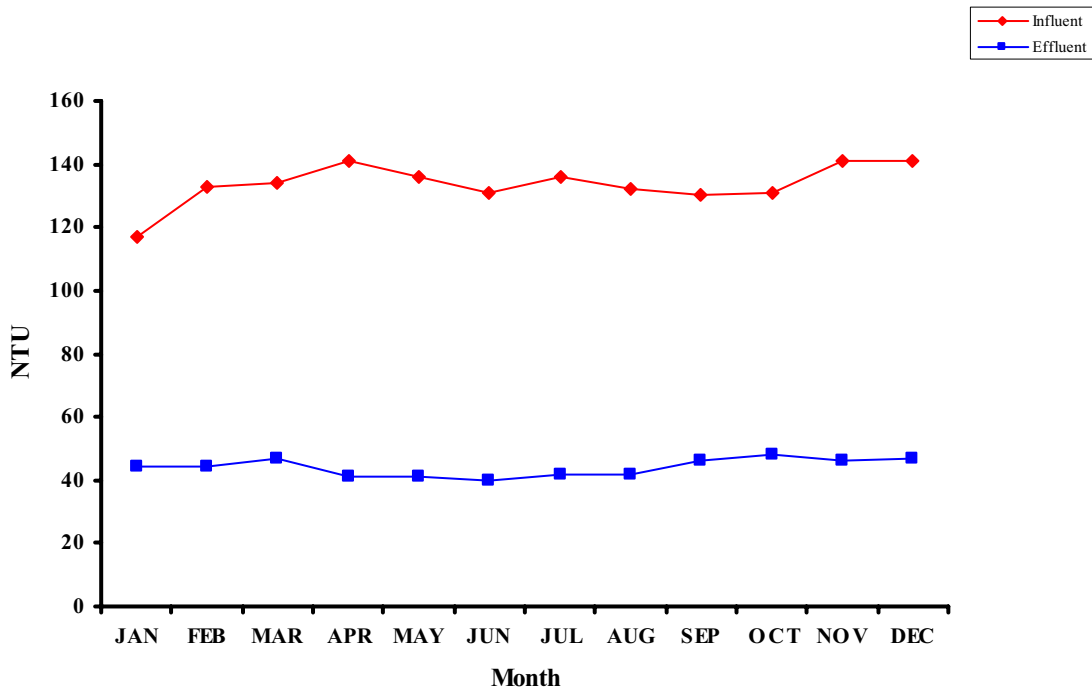
Hexane Extractable Material (mg/L) 2007 Monthly Averages



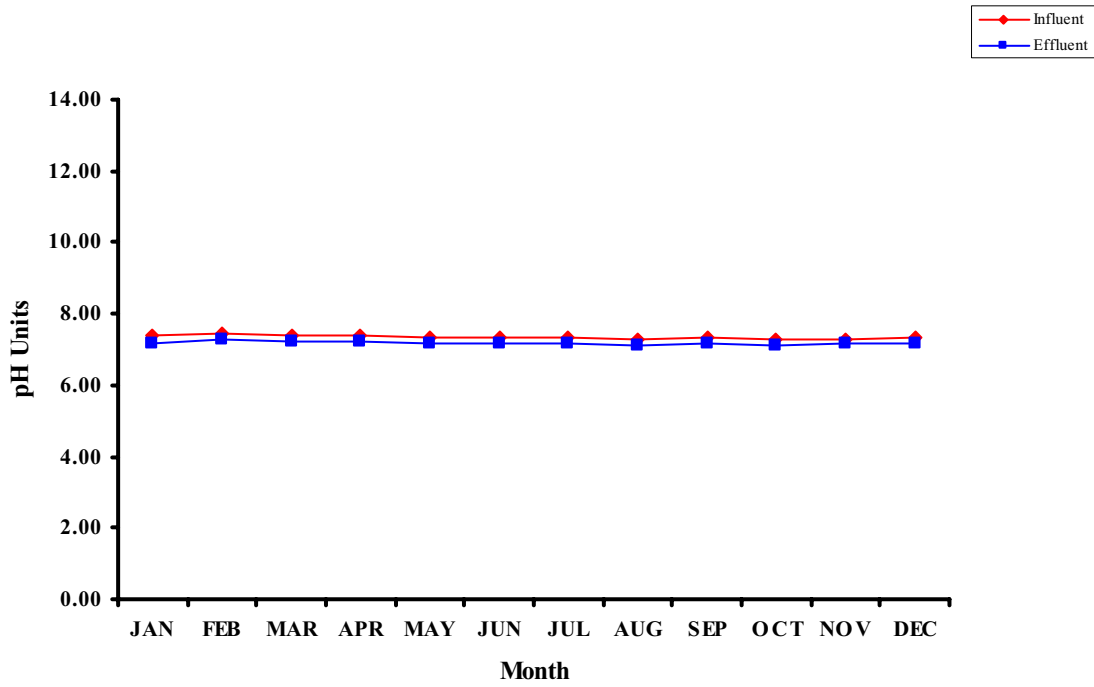
Floatables (mg/L) 2007 Monthly Averages



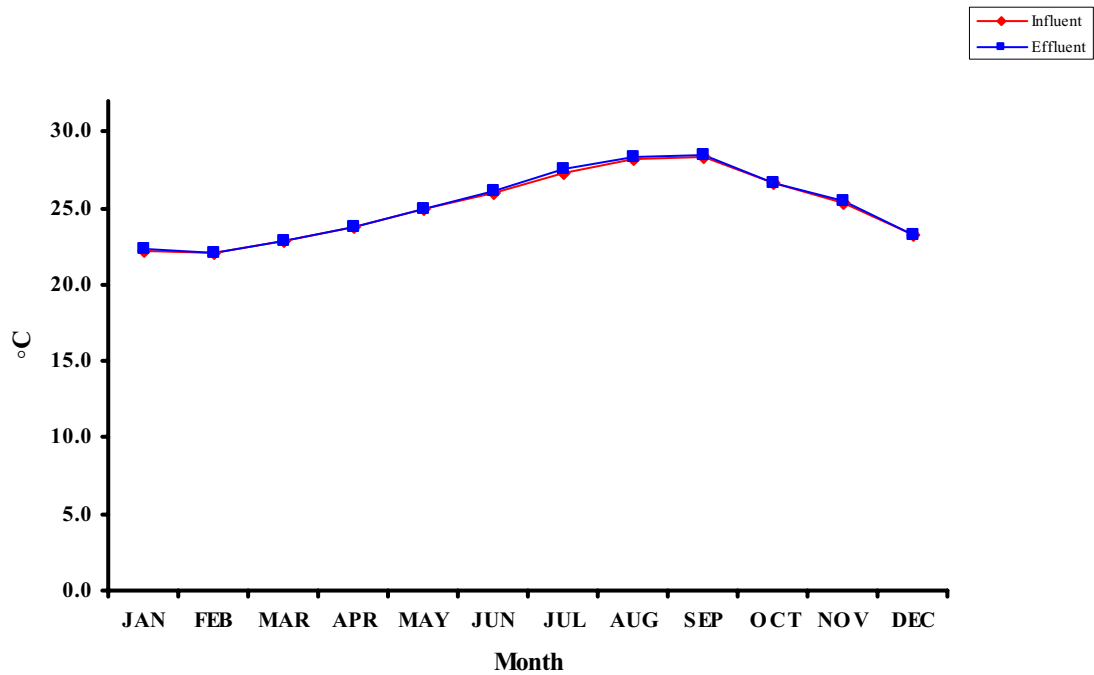
Turbidity (NTU) 2007 Monthly Averages



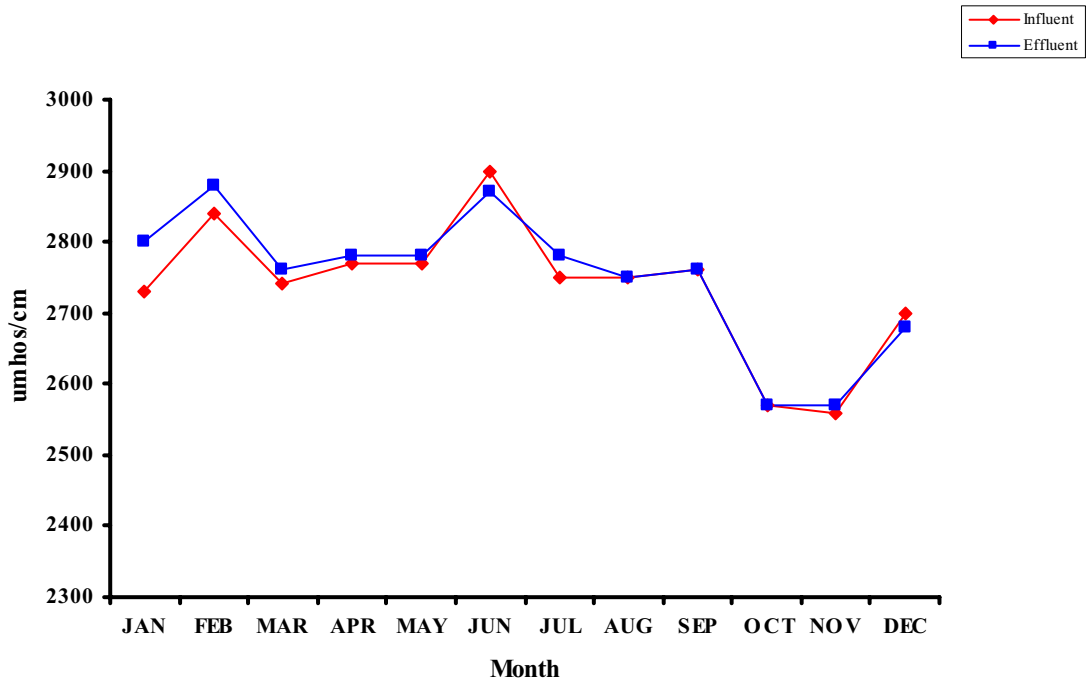
pH 2007 Monthly Averages



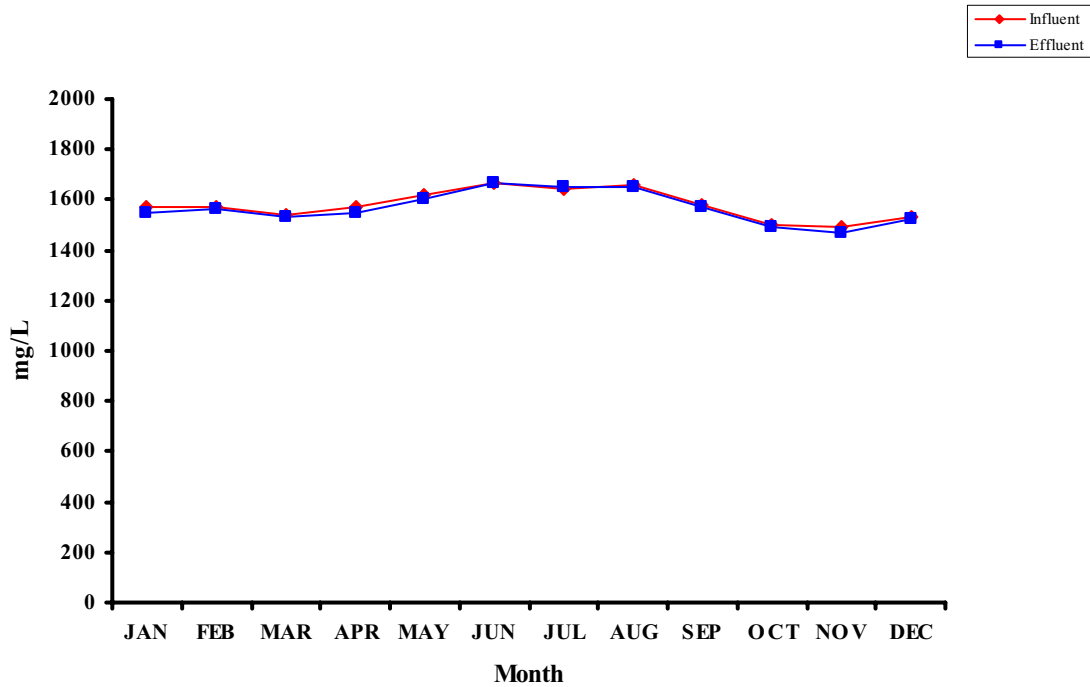
Temperature (°C) 2007 Monthly Averages



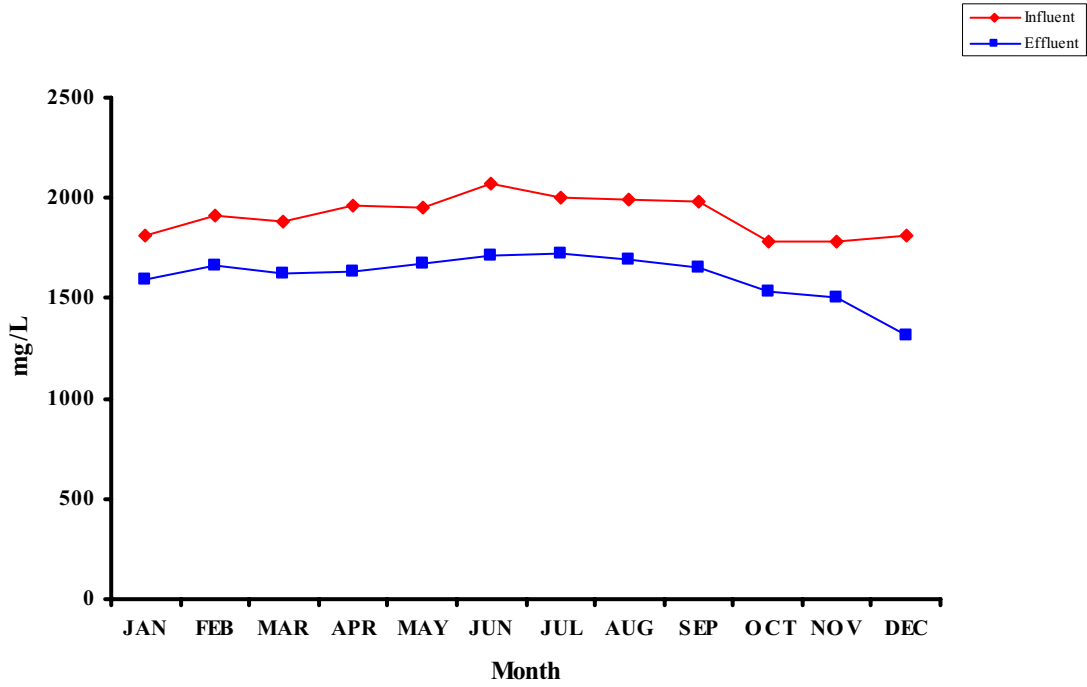
Conductivity (umhos/cm) 2007 Monthly Averages



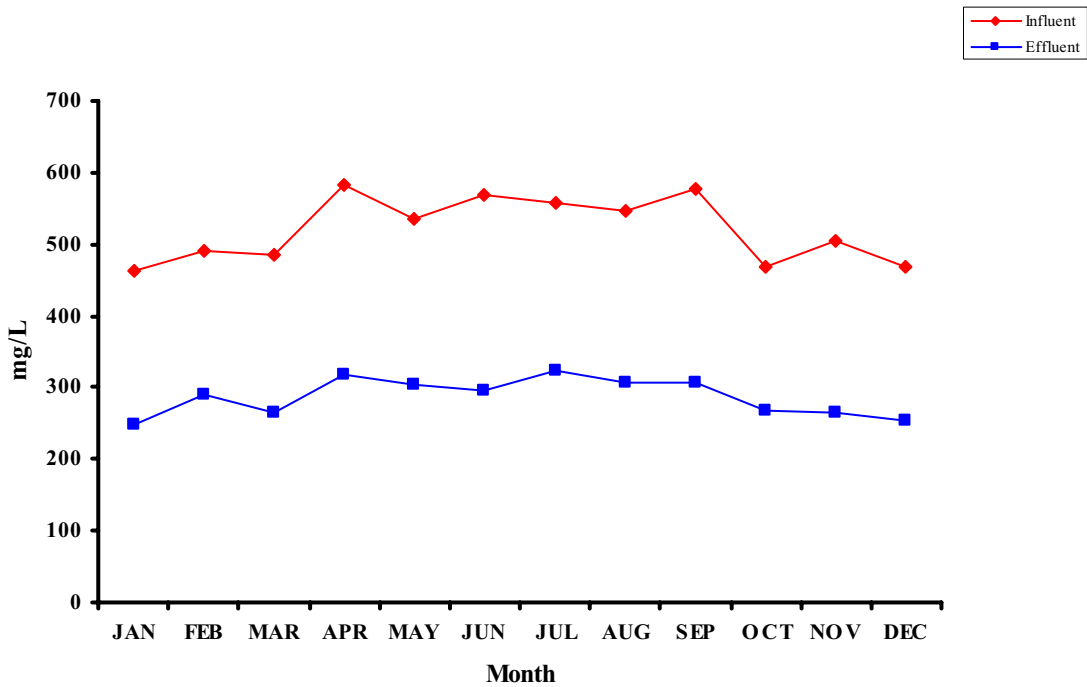
Total Dissolved Solids (mg/L) 2007 Monthly Averages



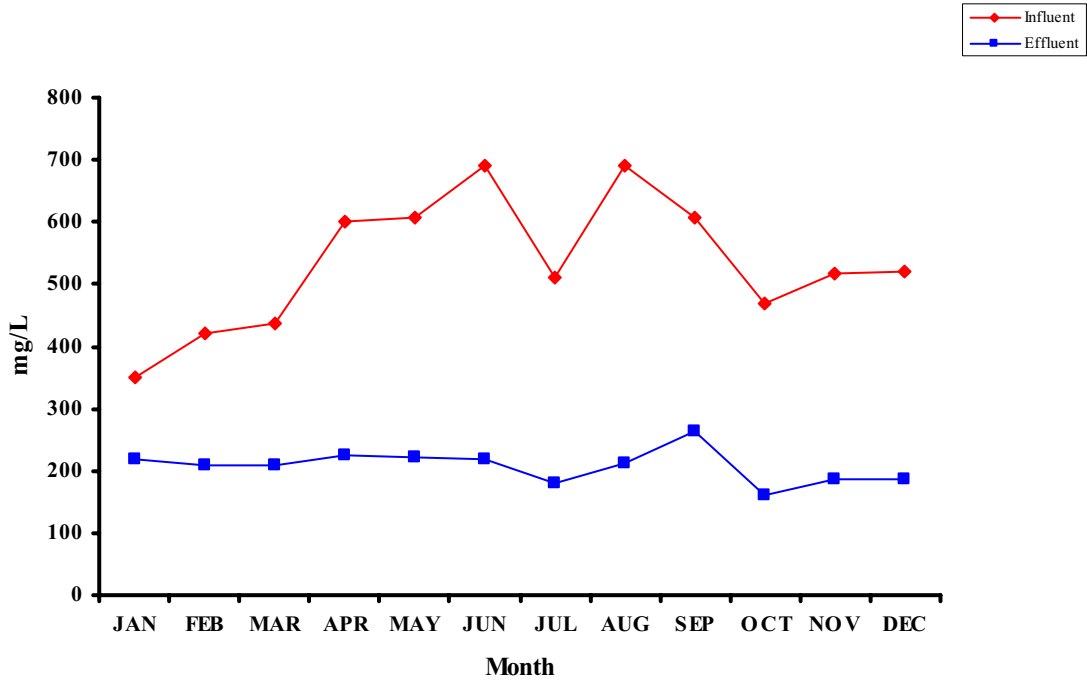
**Total Solids (mg/L)
2007 Monthly Averages**



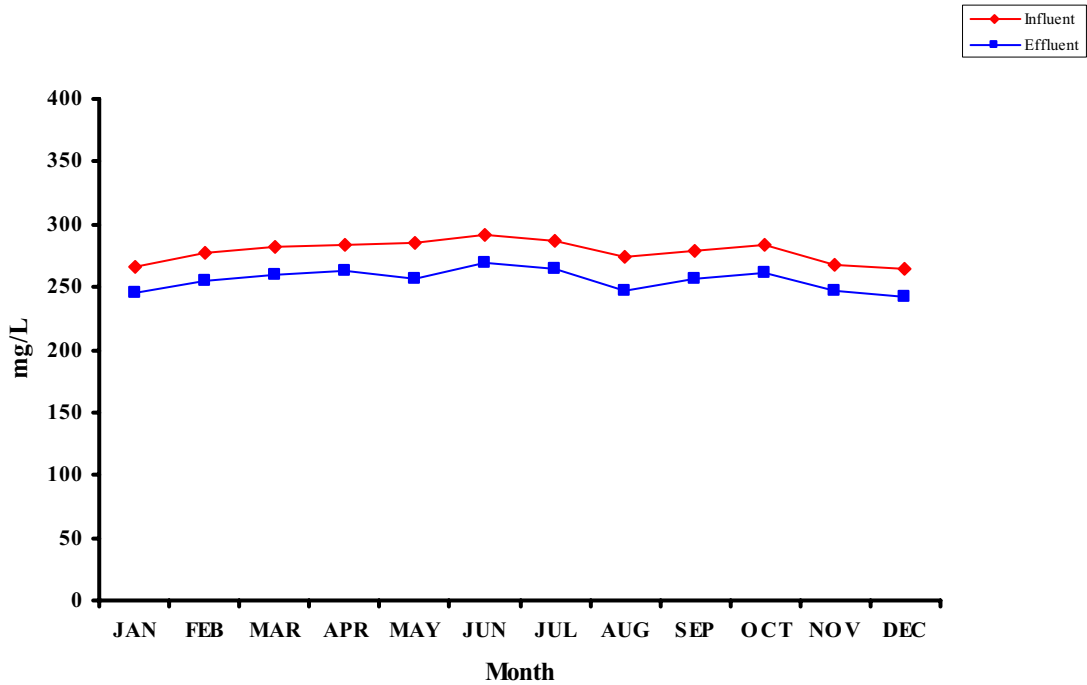
**Total Volatile Solids (mg/L)
2007 Monthly Averages**



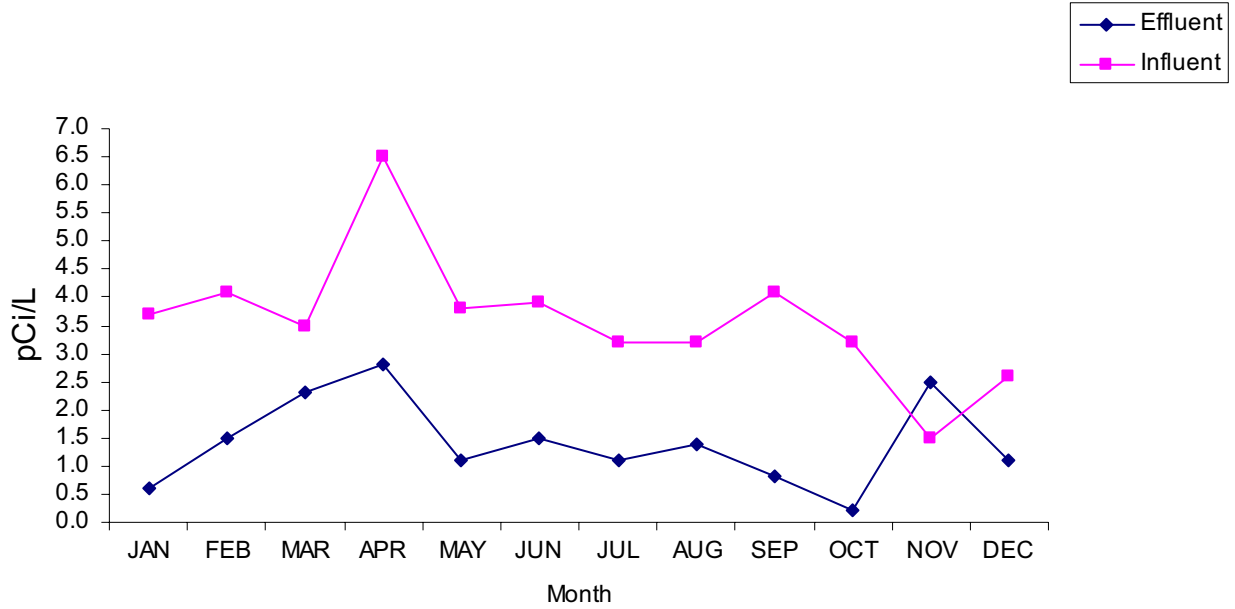
**Chemical Oxygen Demand (mg/L)
2007 Monthly Averages**



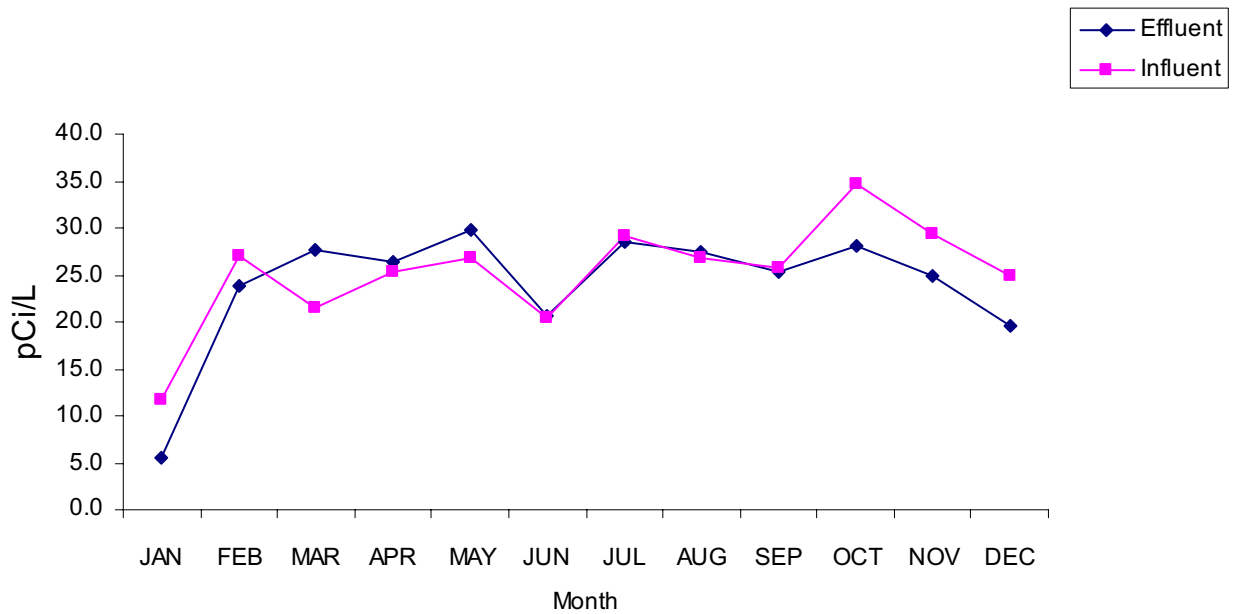
**Alkalinity (mg/L)
2007 Monthly Averages**



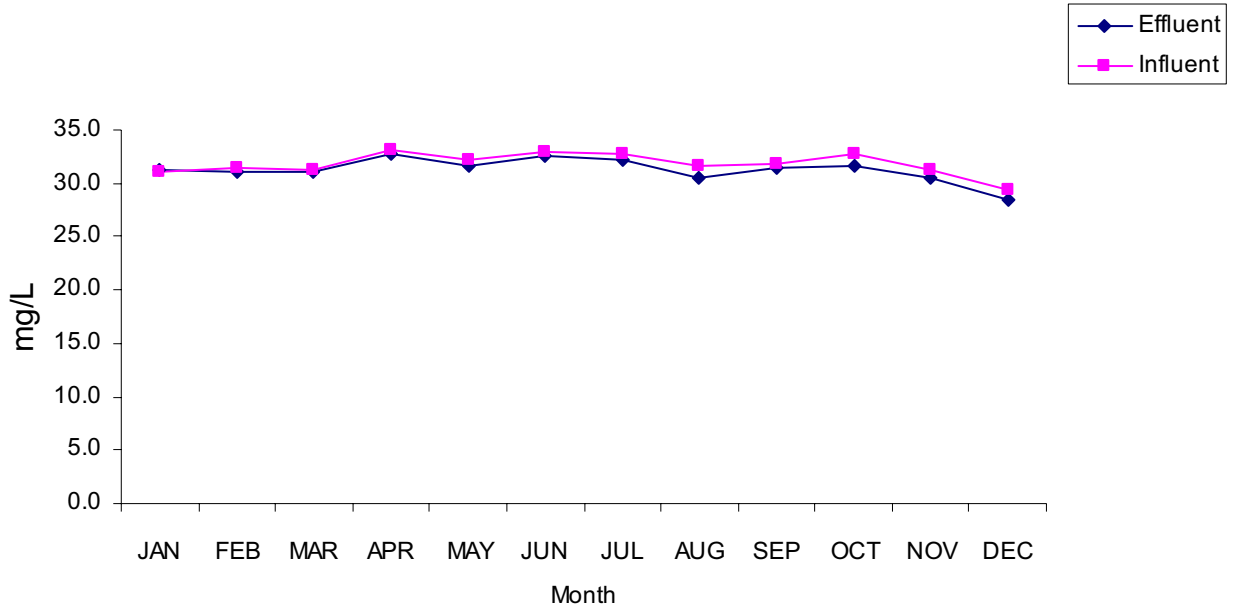
**Point Loma Wastewater Treatment Plant
2007 Monthly Averages - Alpha Radiation**



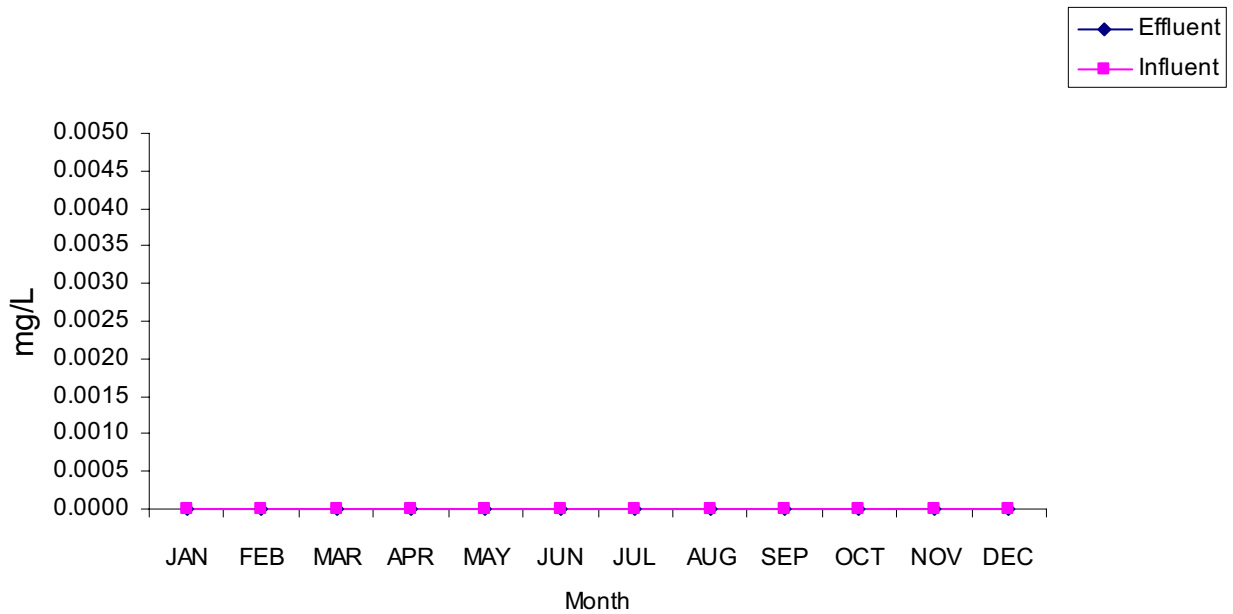
**Point Loma Wastewater Treatment Plant
2007 Monthly Averages - Beta Radiation**



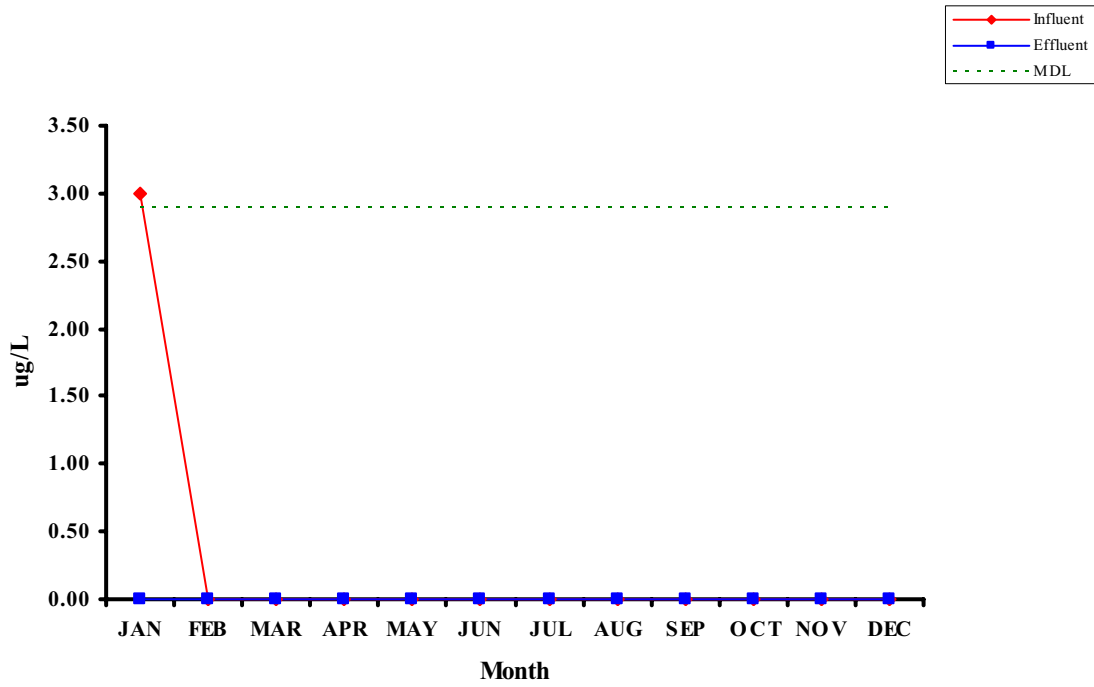
**Point Loma Wastewater Treatment Plant
2007 Monthly Averages - Ammonia-N**



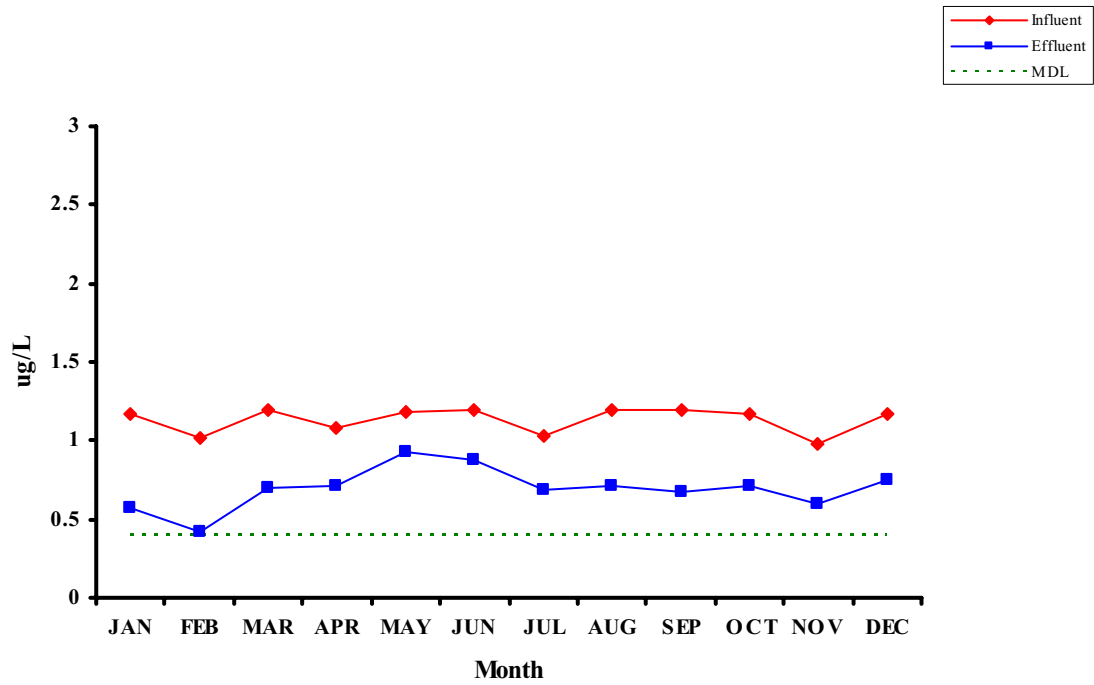
**Point Loma Wastewater Treatment Plant
2007 Monthly Averages - Total Cyanides**



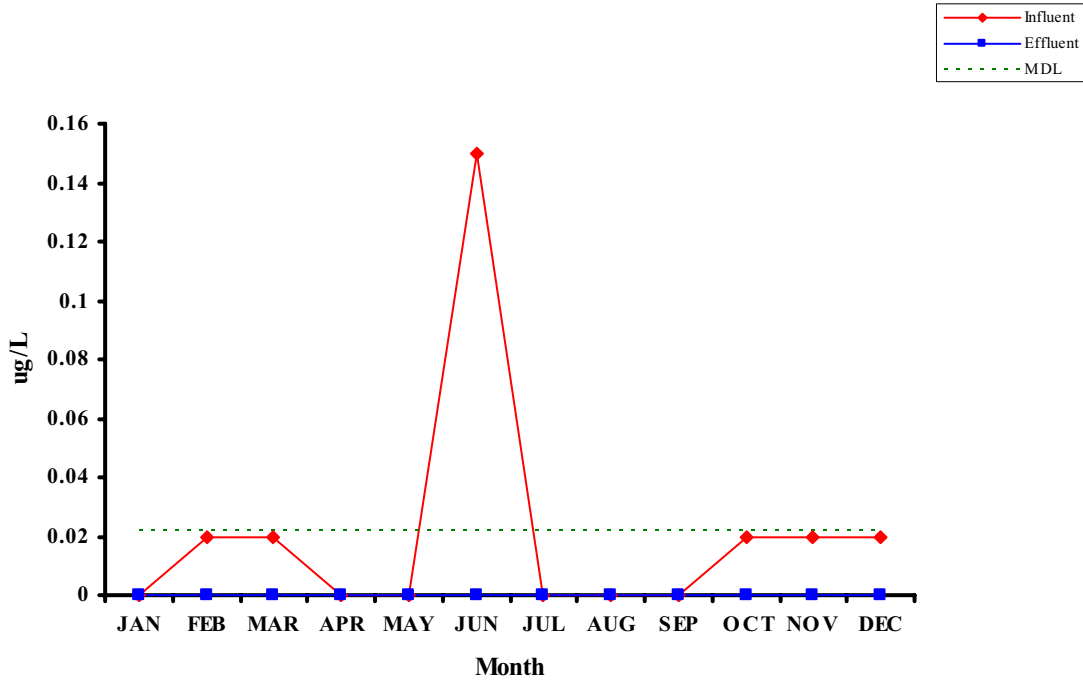
Antimony 2007 Monthly Averages



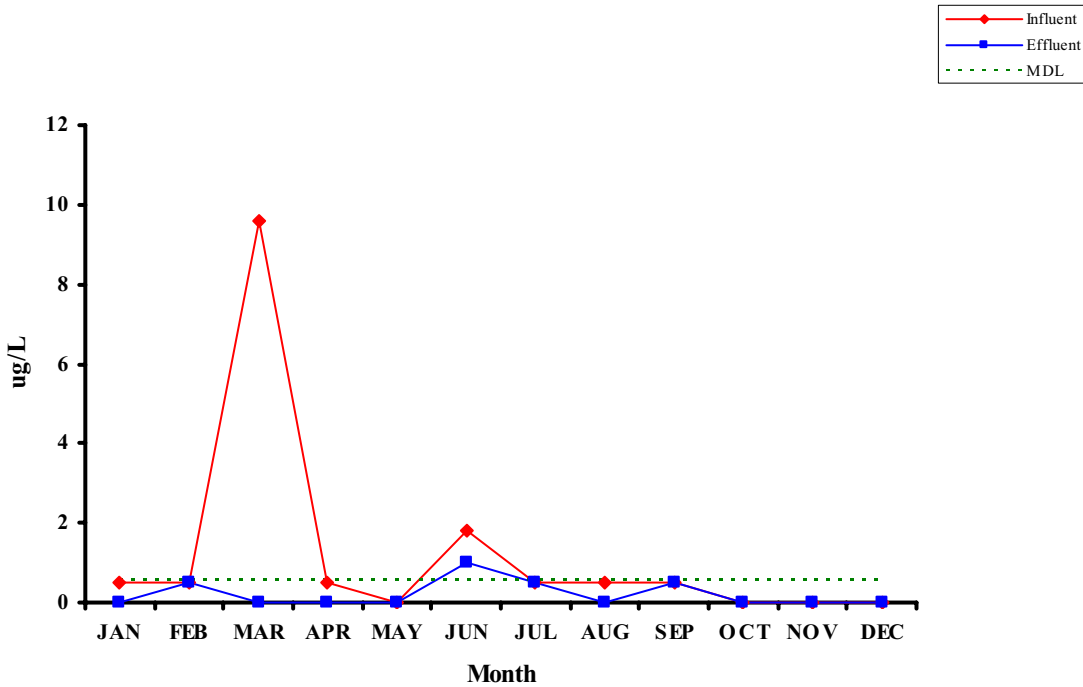
Arsenic 2007 Monthly Averages



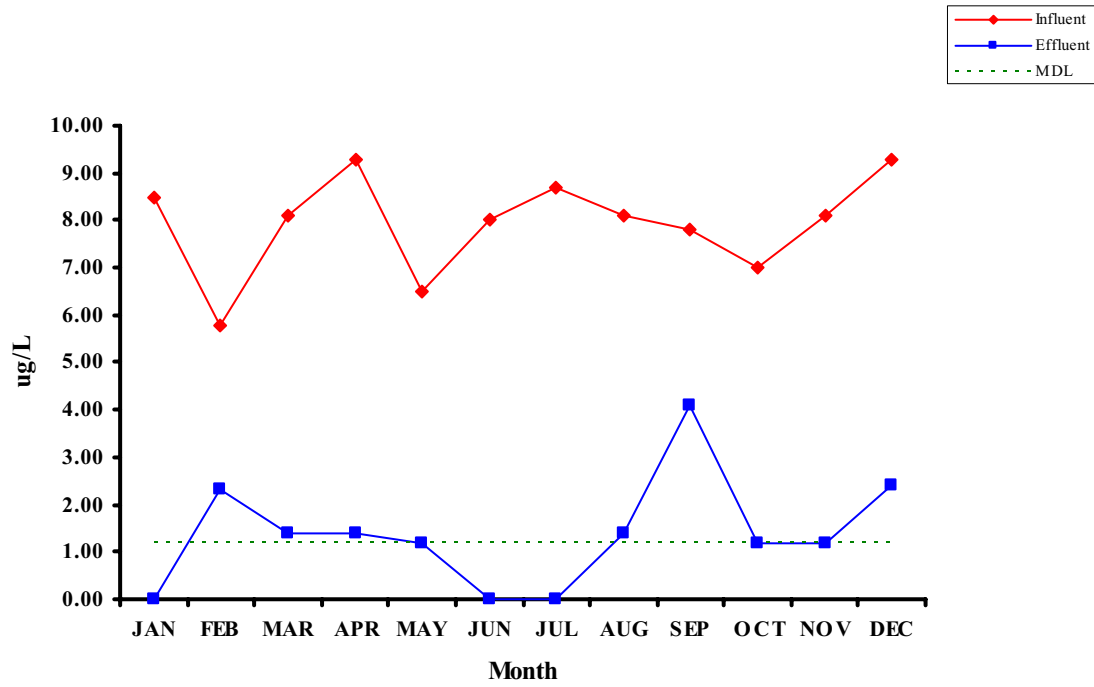
Beryllium 2007 Monthly Averages



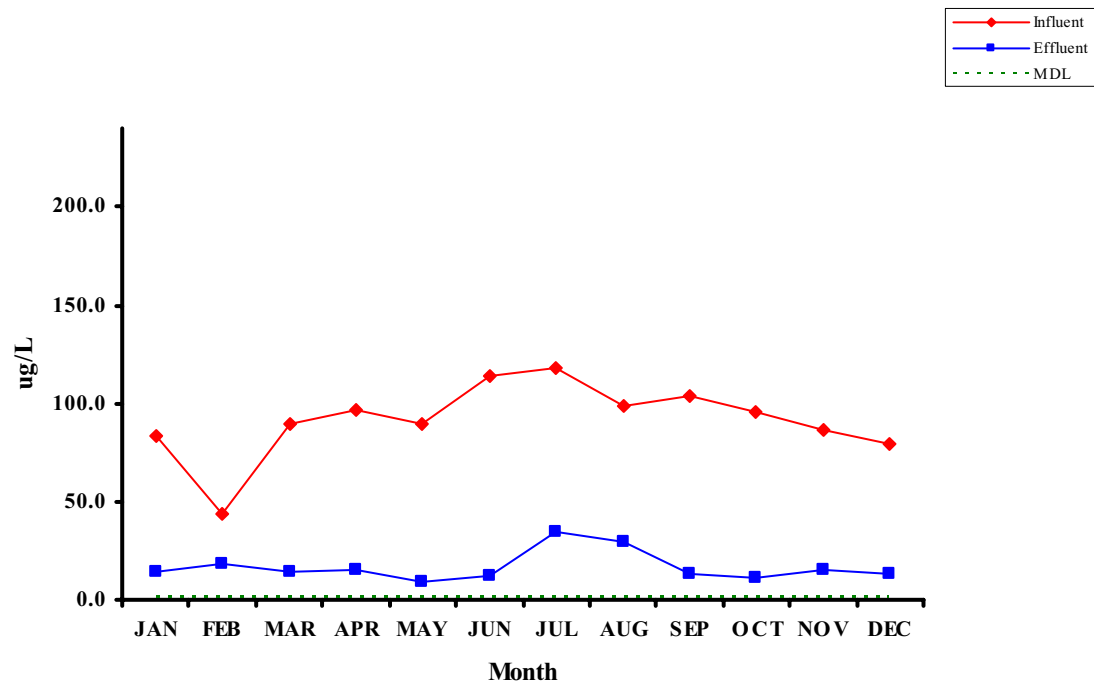
Cadmium 2007 Monthly Averages



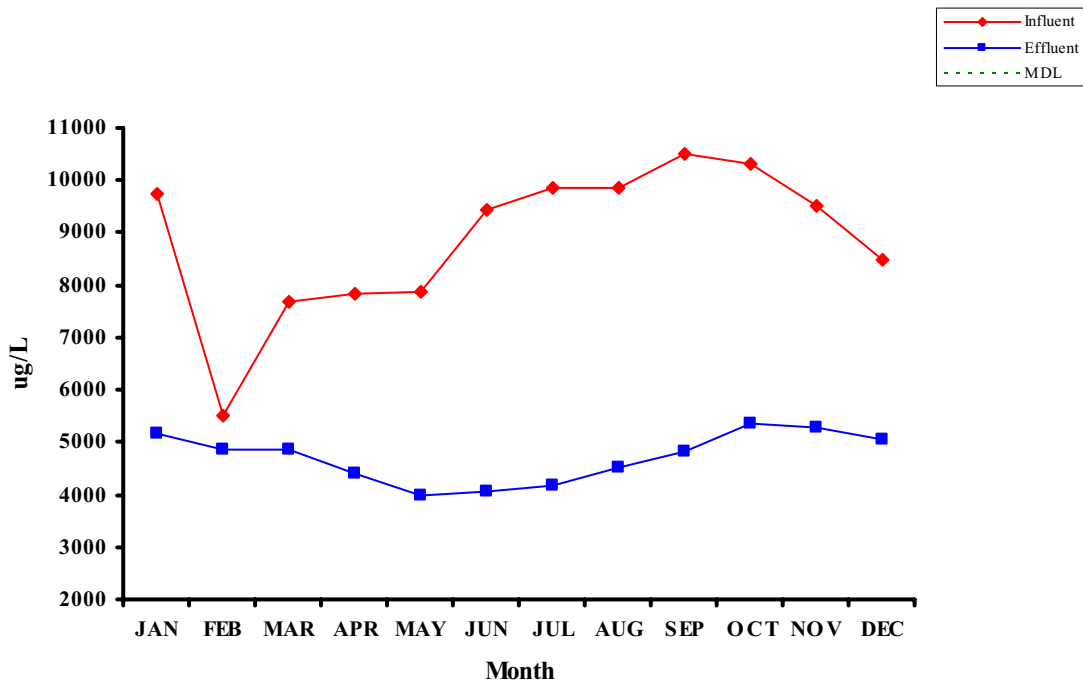
Chromium 2007 Monthly Averages



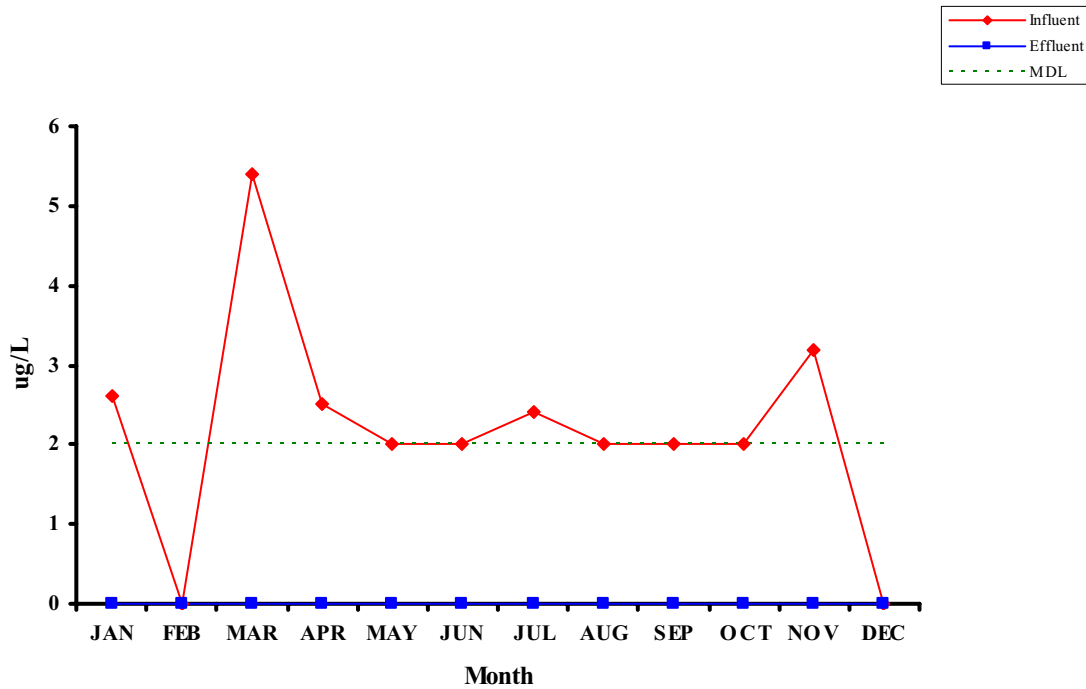
Copper 2007 Monthly Averages



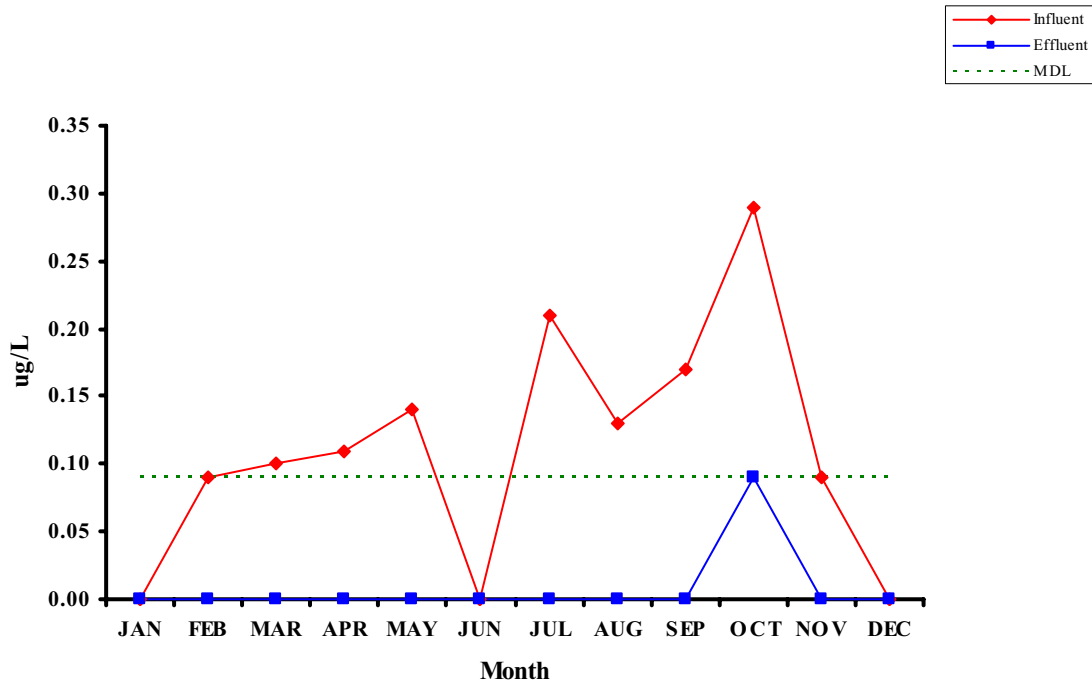
Iron 2007 Monthly Averages



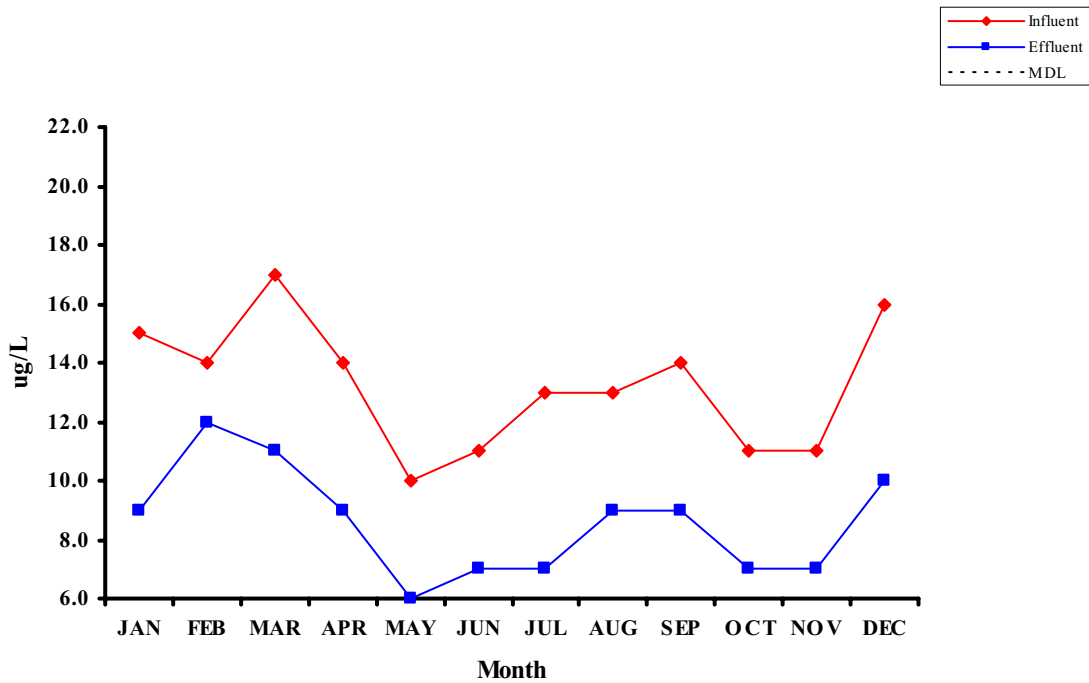
Lead 2007 Monthly Averages



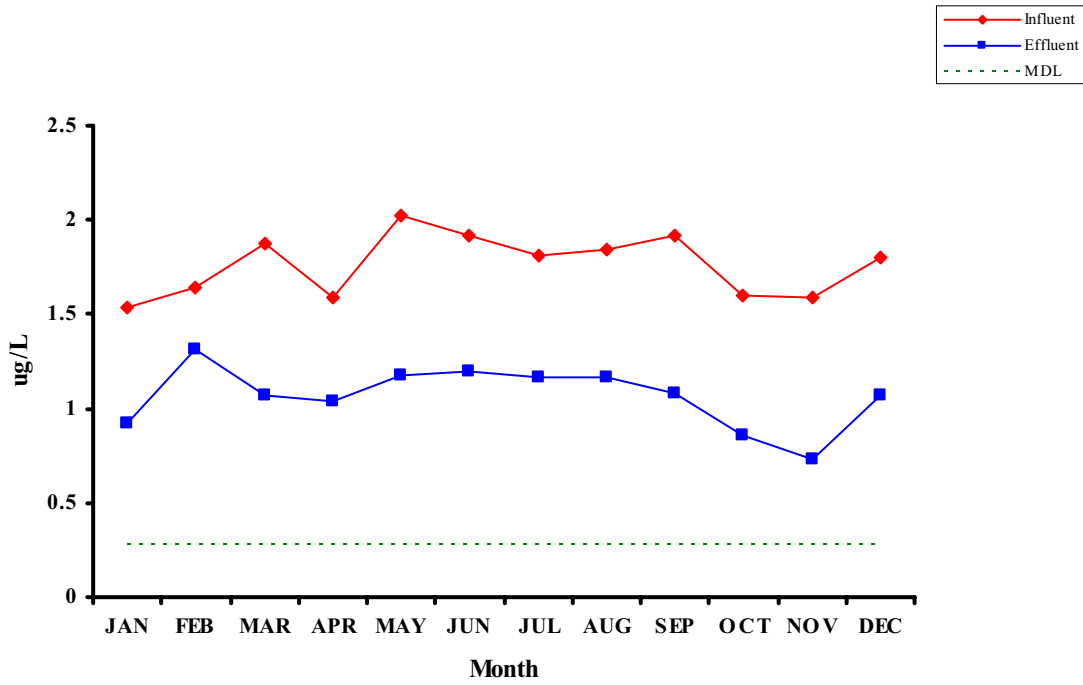
Mercury 2007 Monthly Averages



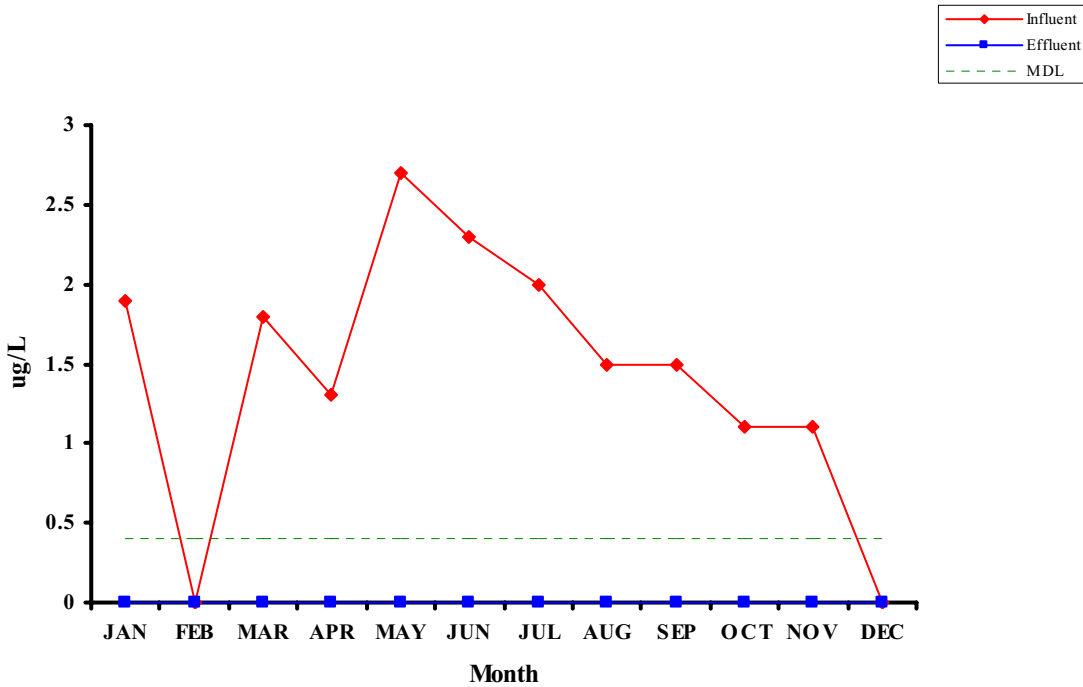
Nickel 2007 Monthly Averages



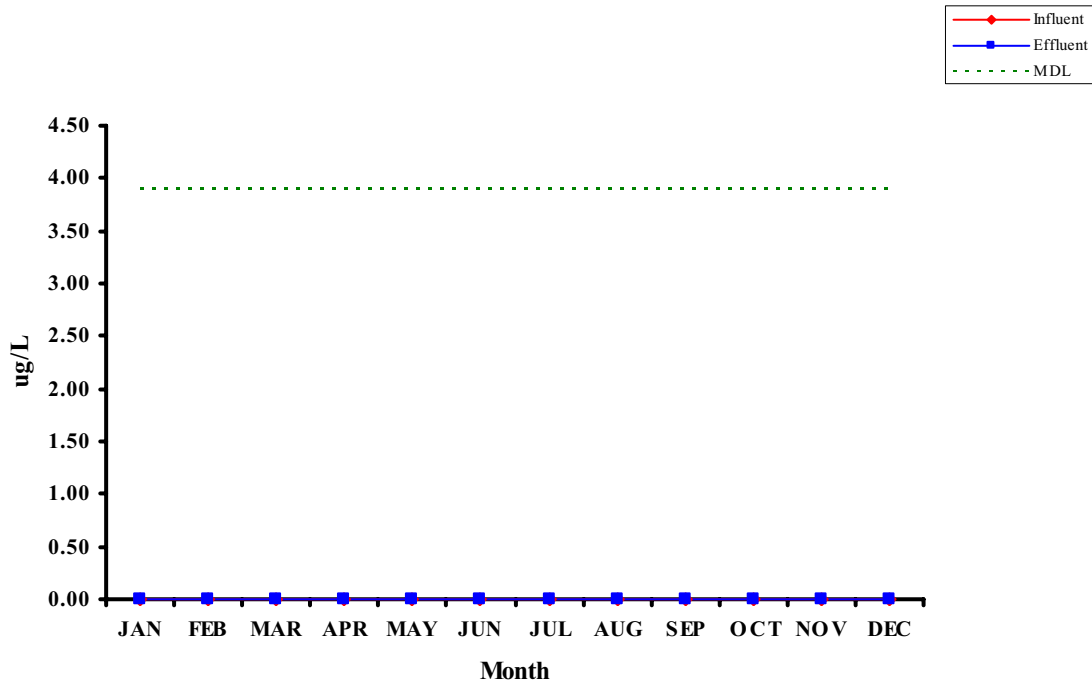
Selenium 2007 Monthly Averages



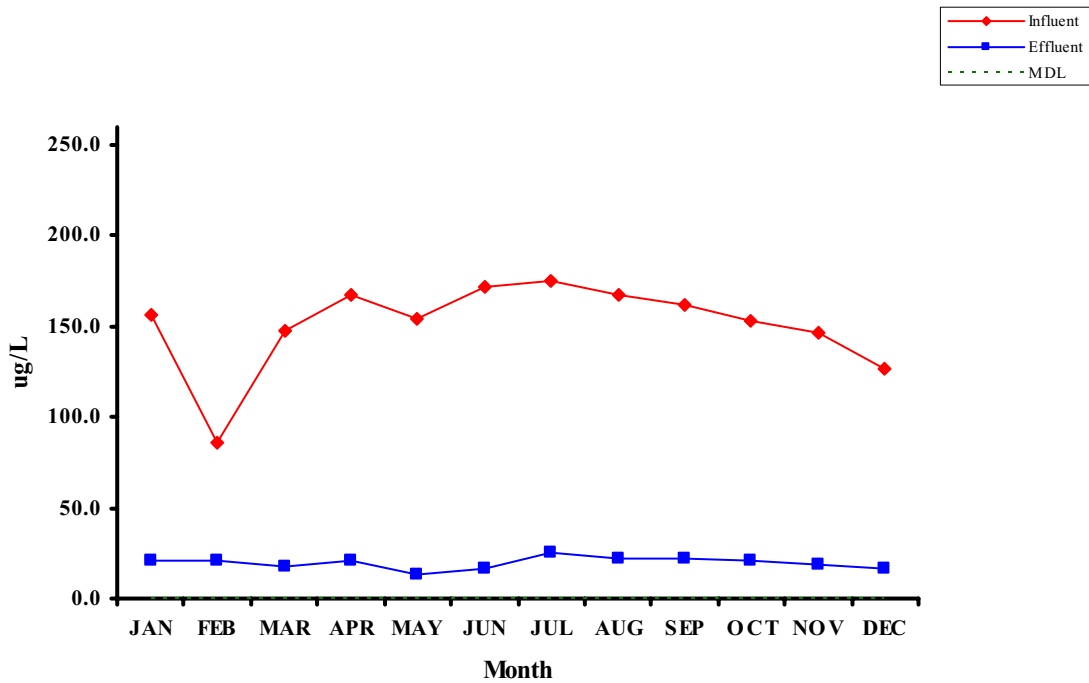
Silver 2007 Monthly Averages



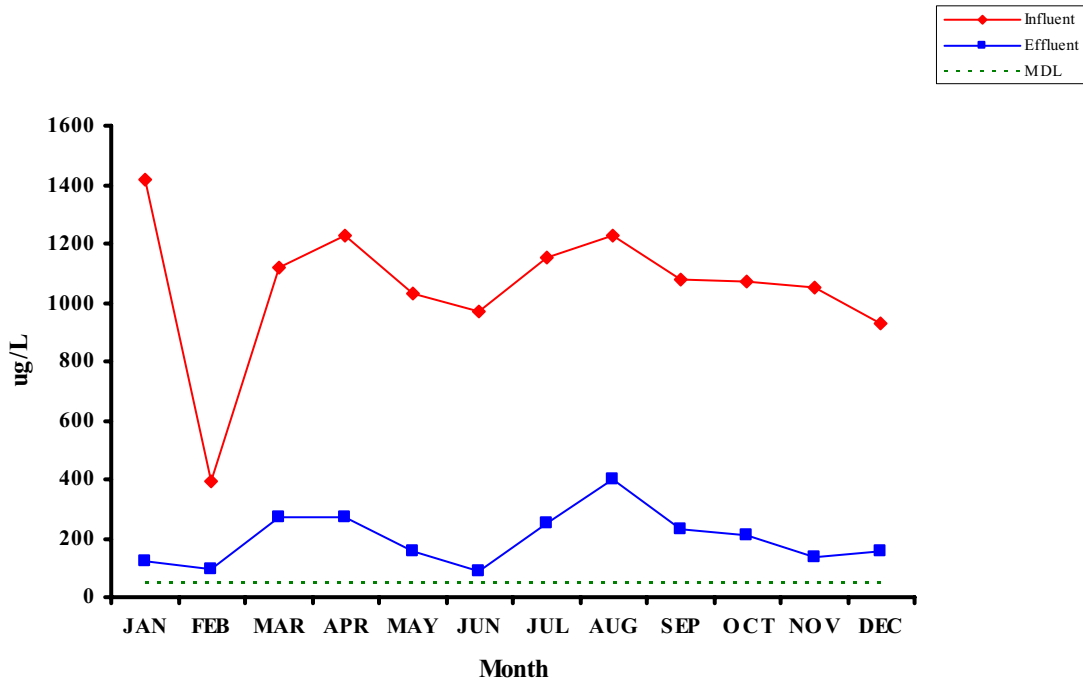
Thallium 2007 Monthly Averages



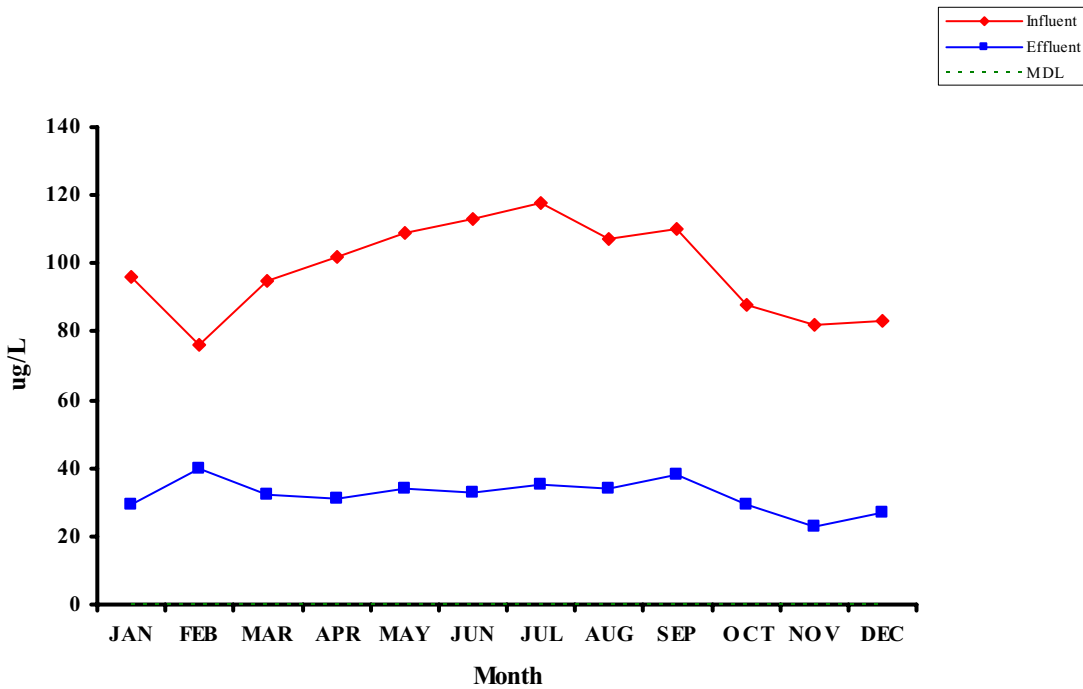
Zinc 2007 Monthly Averages



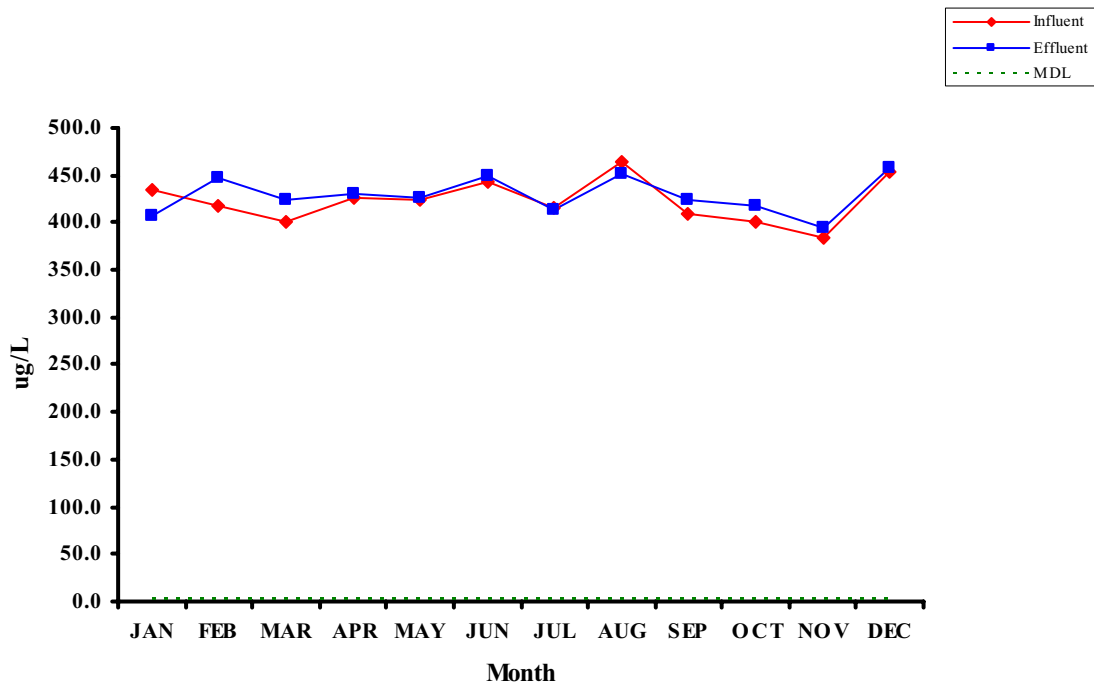
Aluminum 2007 Monthly Averages



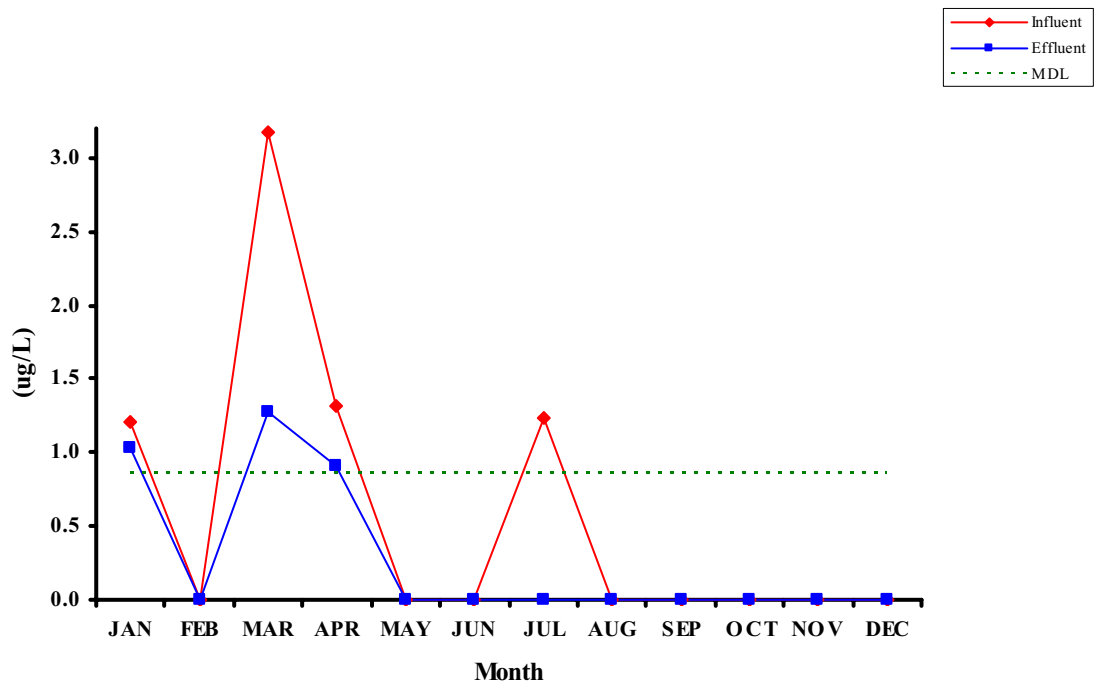
Barium 2007 Monthly Averages



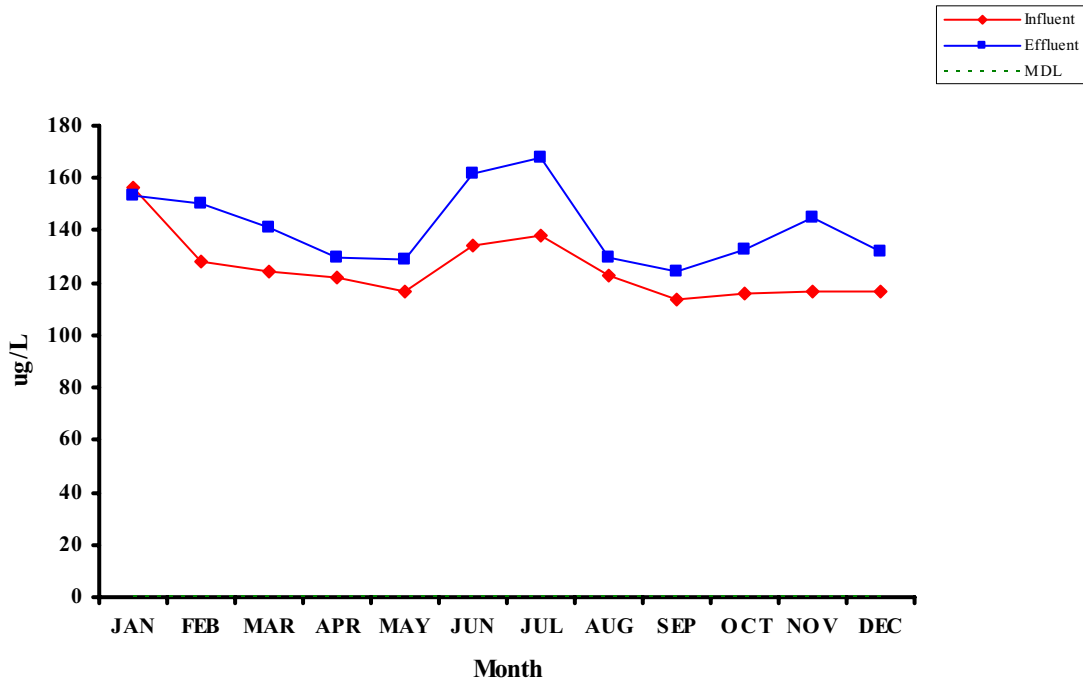
Boron 2007 Monthly Averages



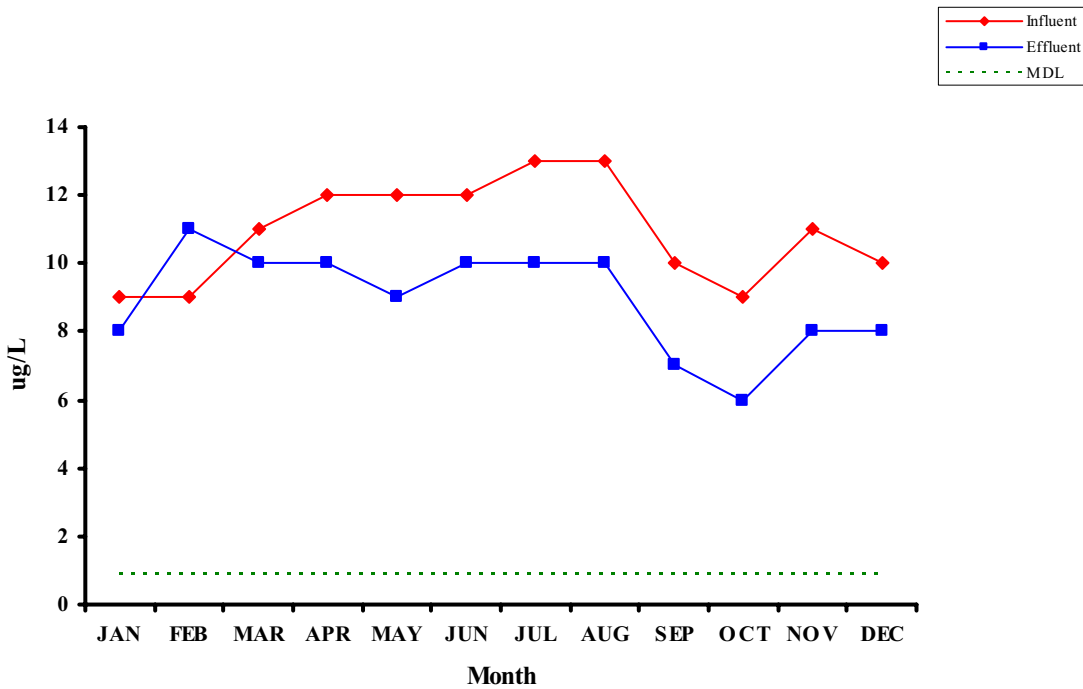
Cobalt 2007 Monthly Averages



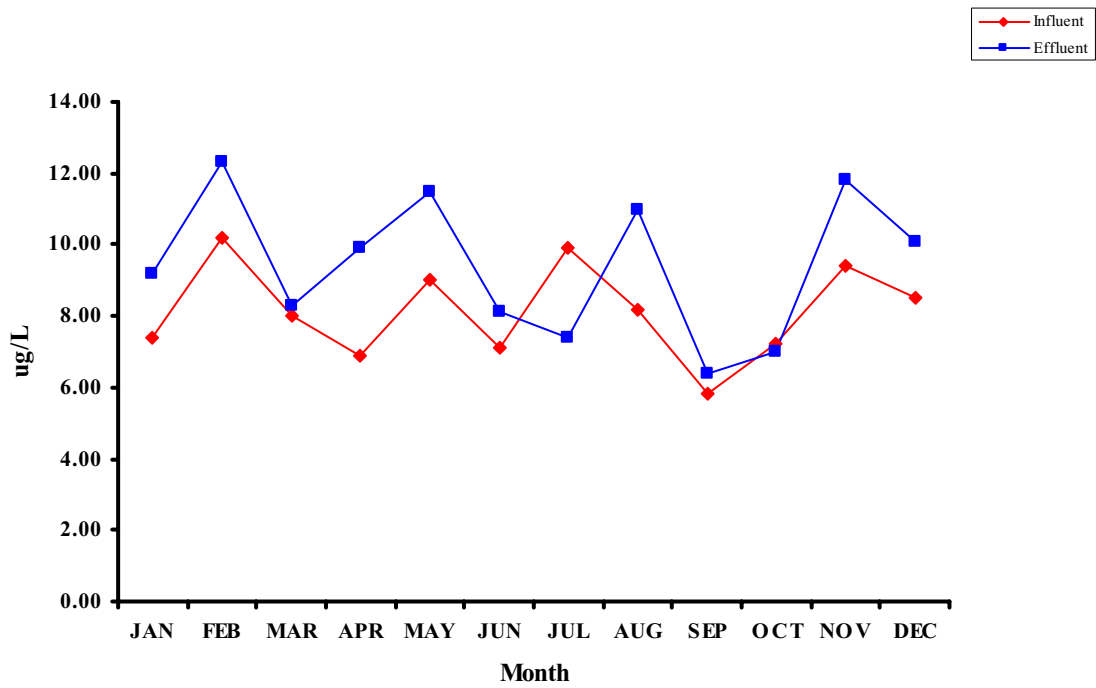
Manganese 2007 Monthly Averages



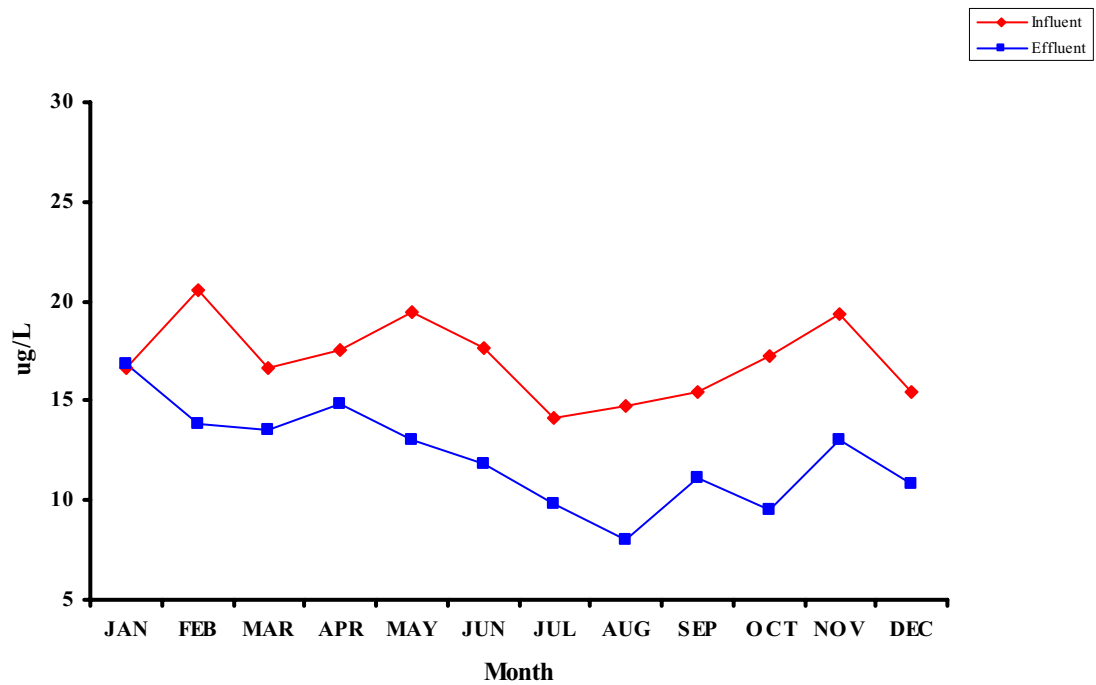
Molybdeum 2007 Monthly Averages



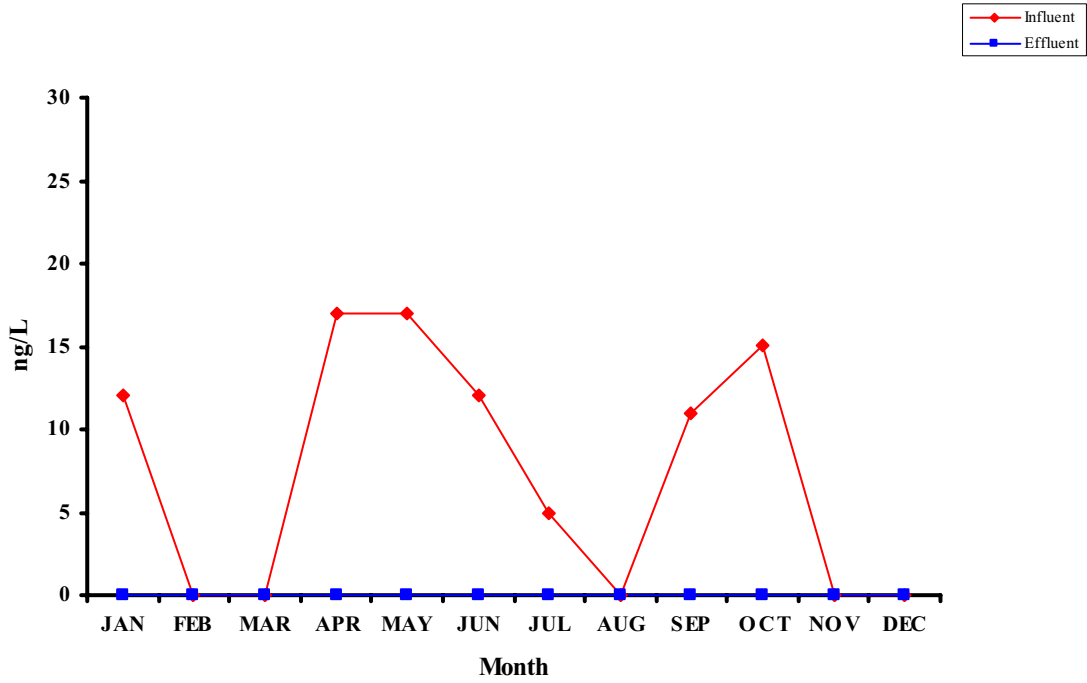
Purgeables 2007 Monthly Averages



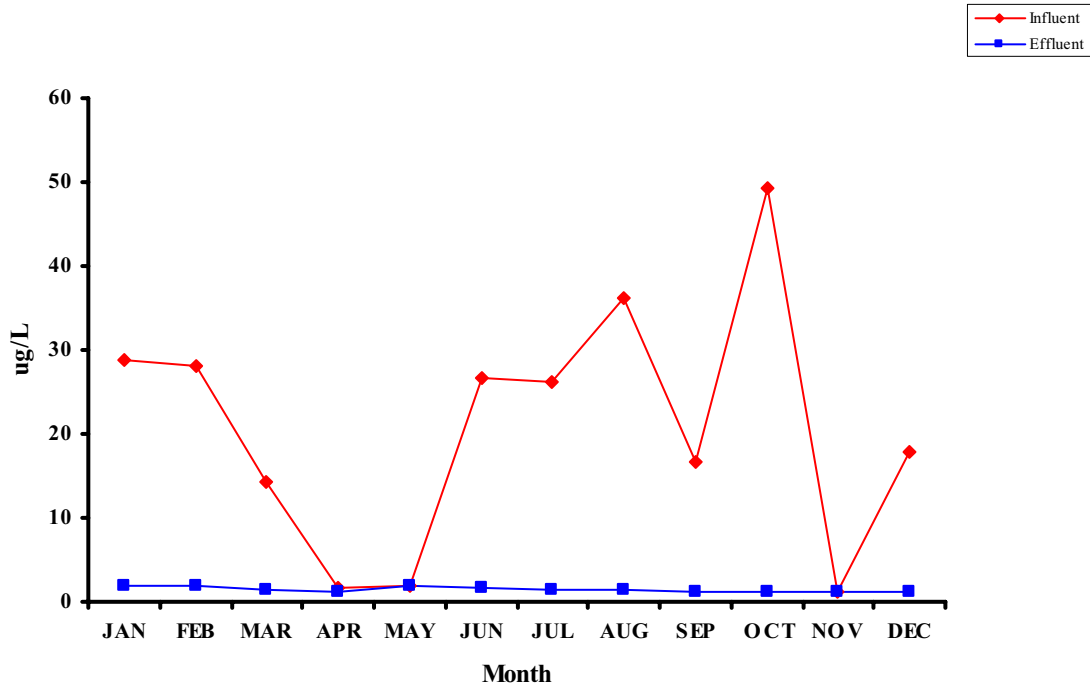
Phenols 2007 Monthly Averages



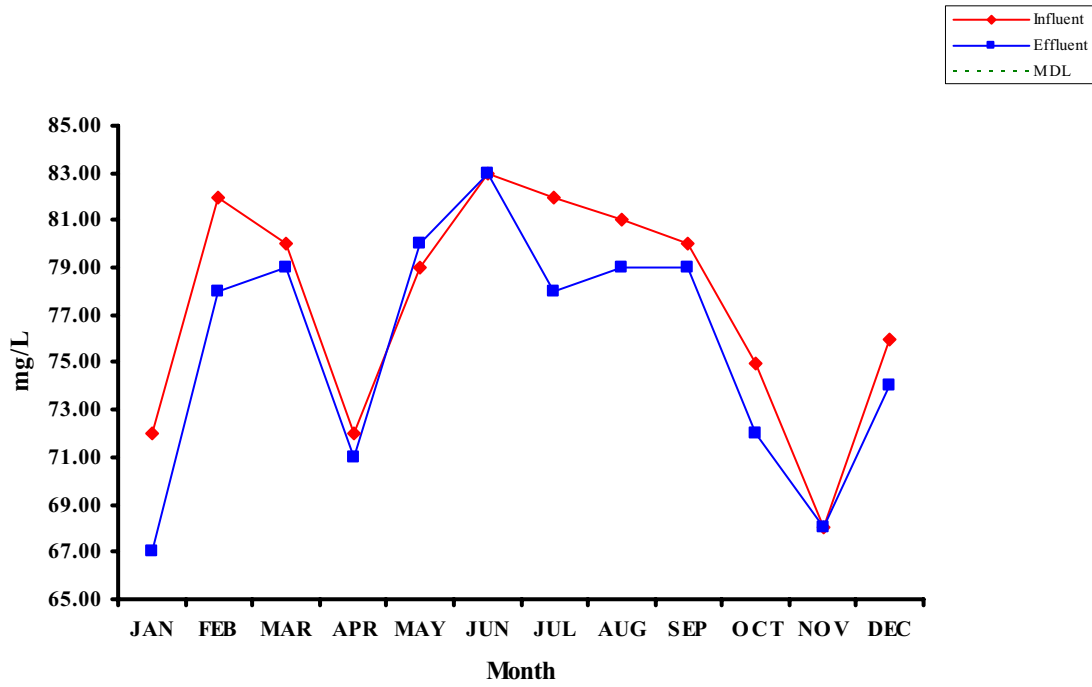
Total Chlorinated Hydrocarbons 2007 Monthly Averages



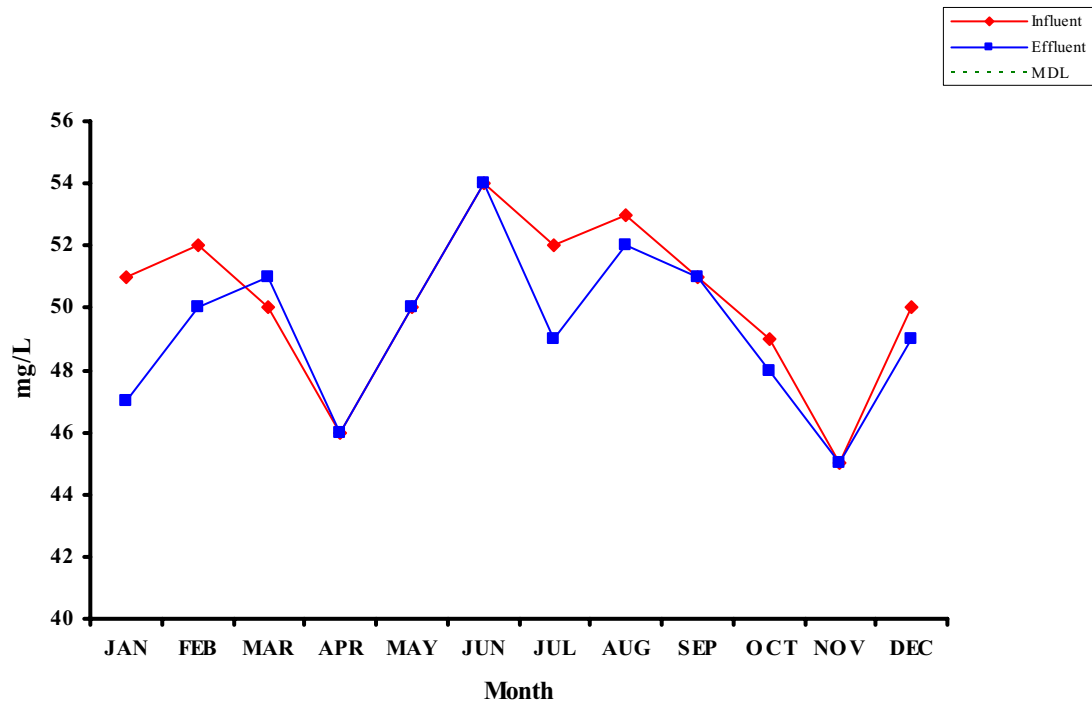
Base Neutrals 2007 Monthly Averages



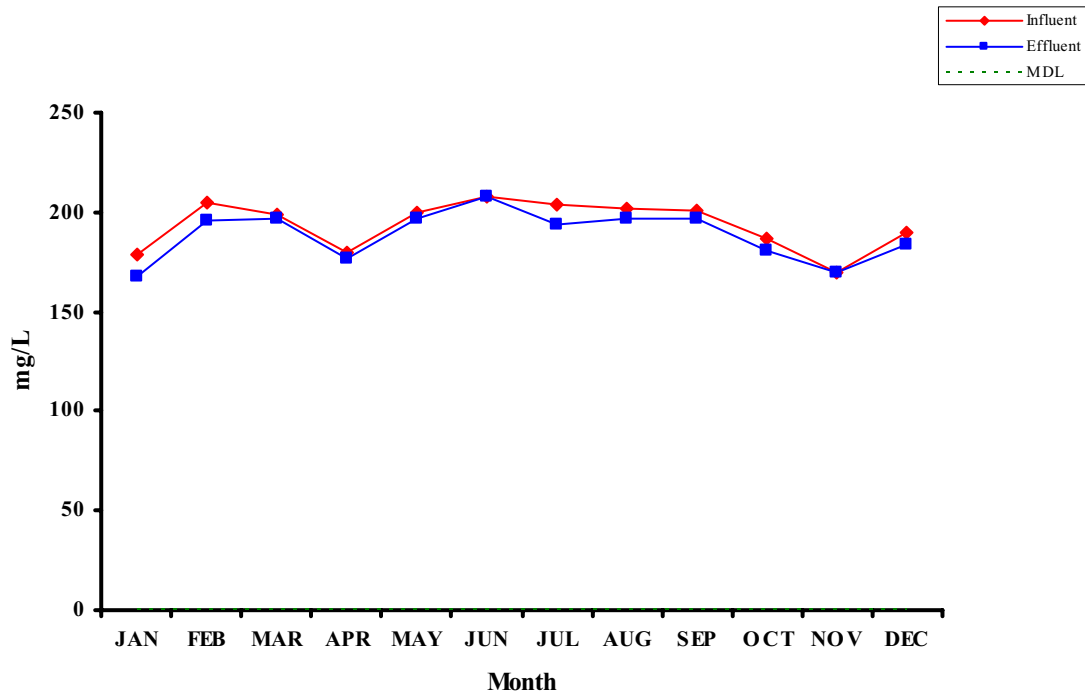
Calcium 2007 Monthly Averages



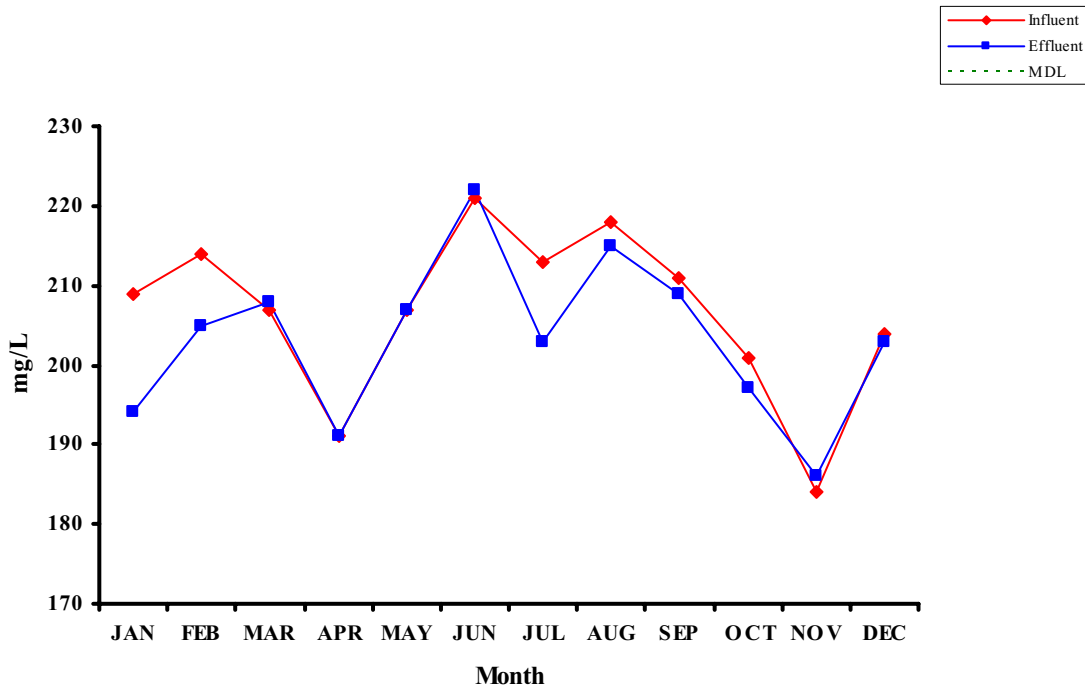
Magnesium 2007 Monthly Averages



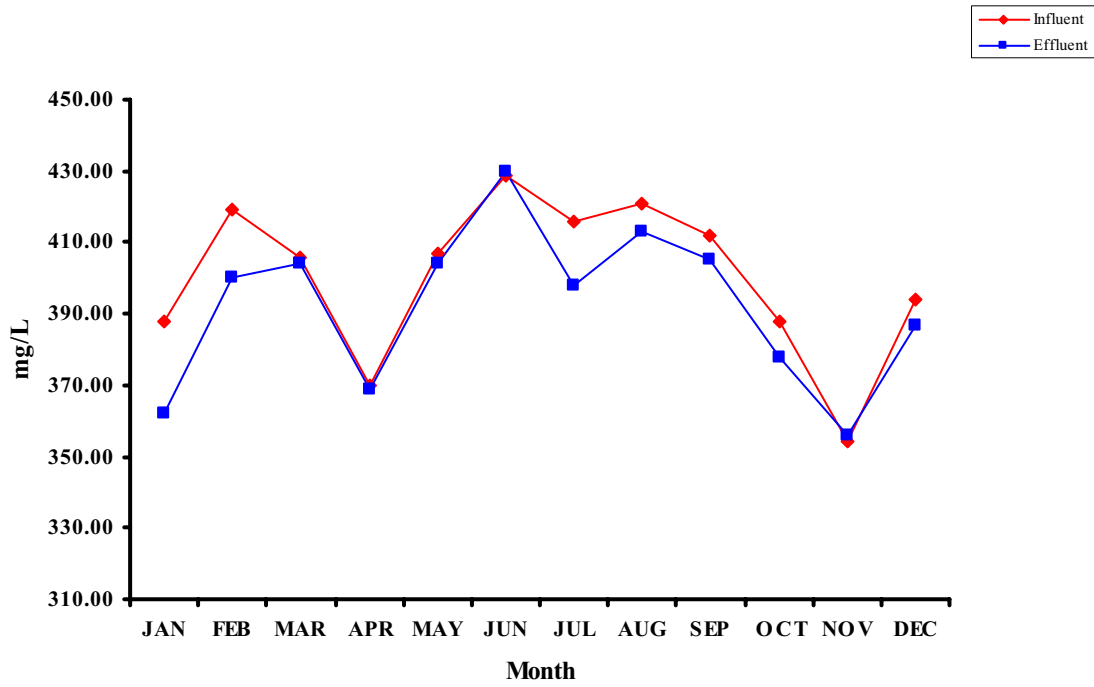
Calcium Hardness 2007 Monthly Averages



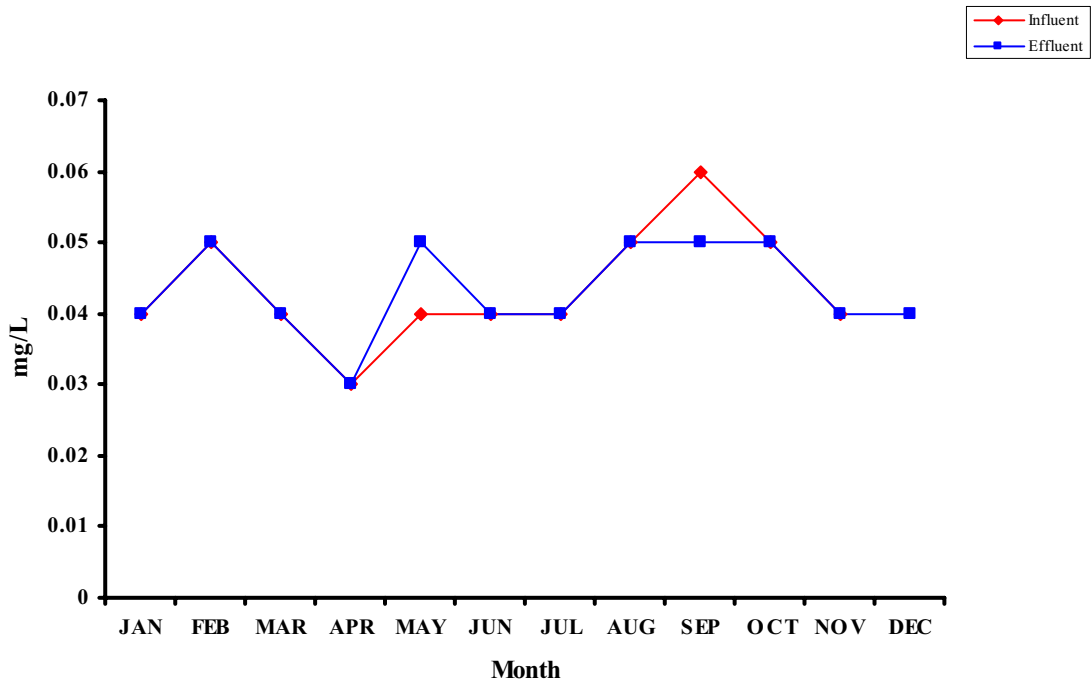
Magnesium Hardness 2007 Monthly Averages



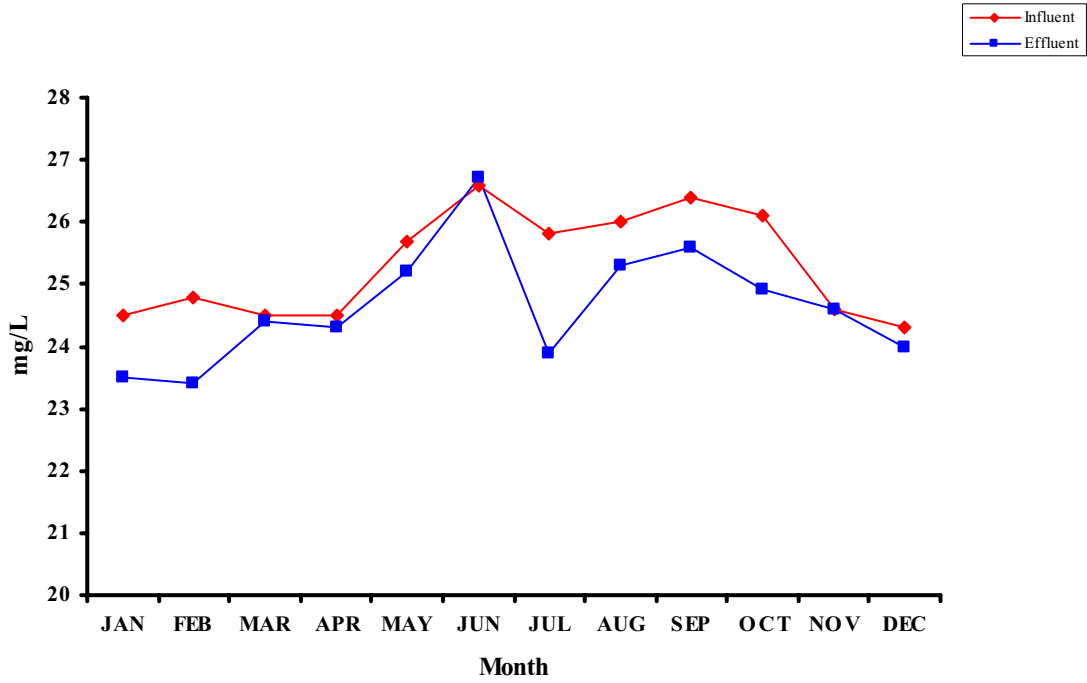
Total Hardness 2007 Monthly Averages



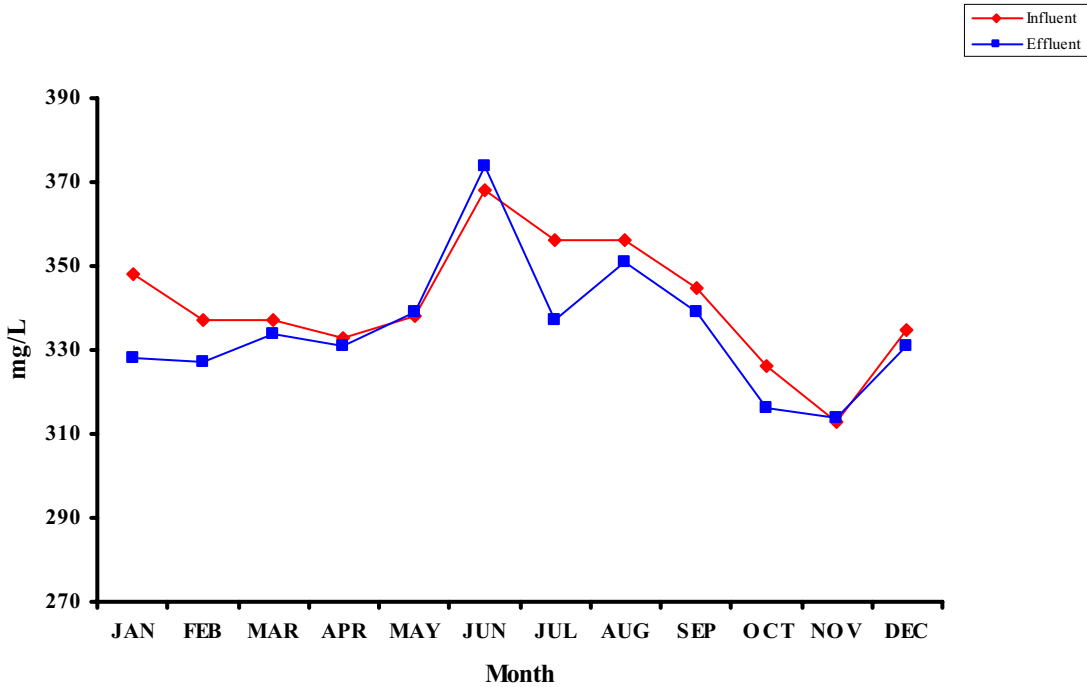
Lithium 2007 Monthly Averages



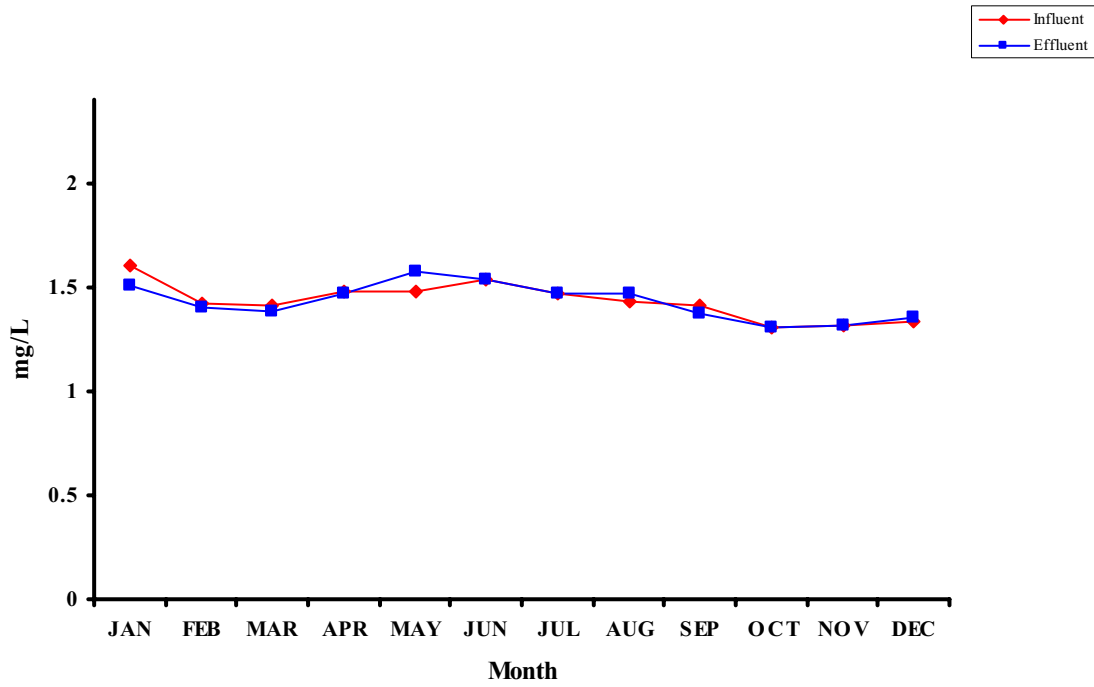
Potassium 2007 Monthly Averages



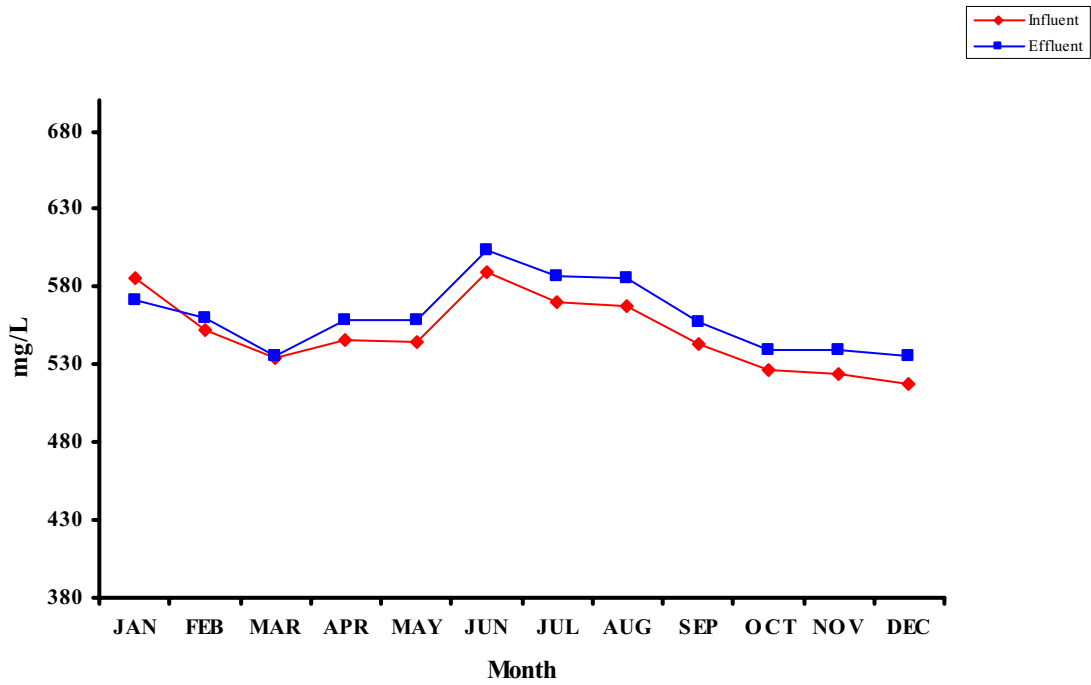
Sodium 2007 Monthly Averages



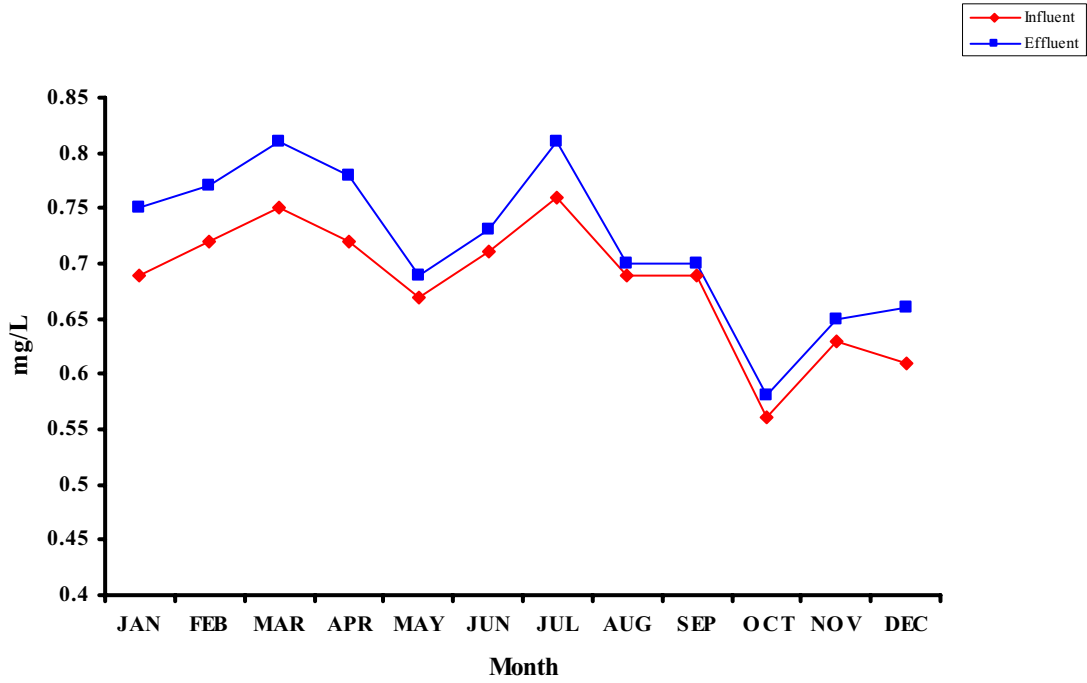
Bromide 2007 Monthly Averages



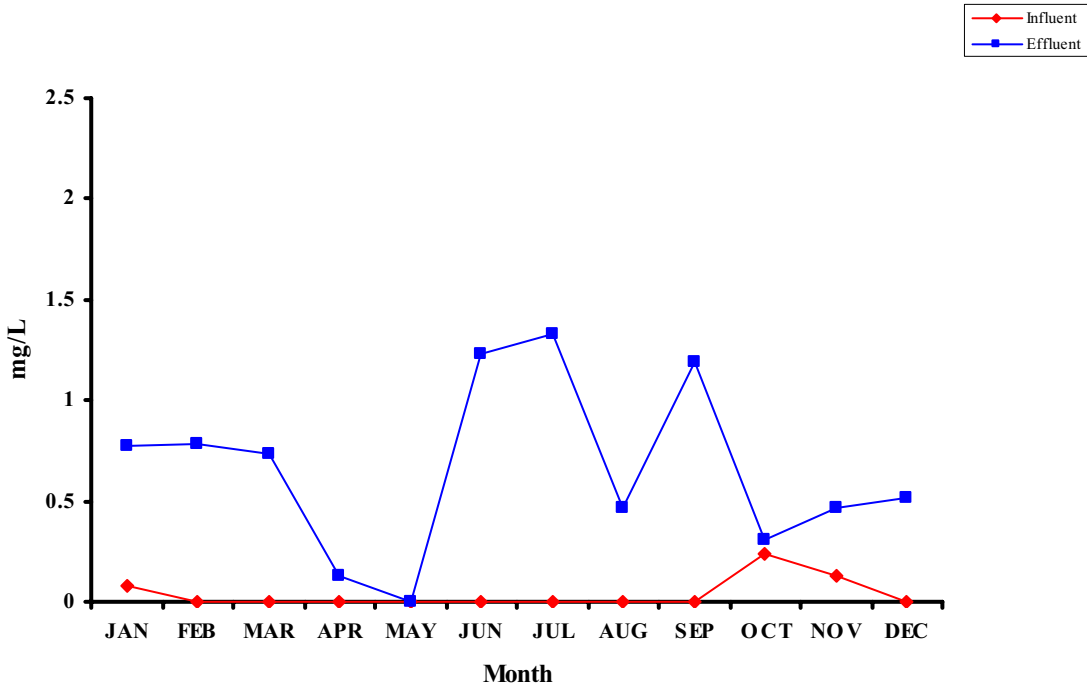
Chloride 2007 Monthly Averages



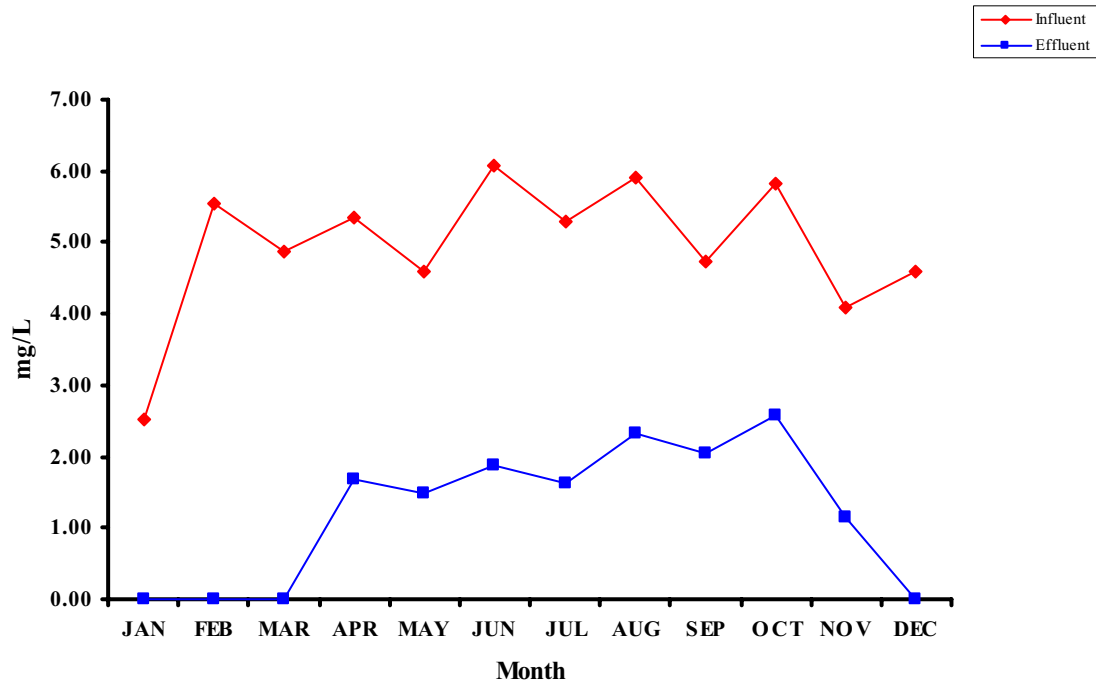
Fluoride 2007 Monthly Averages



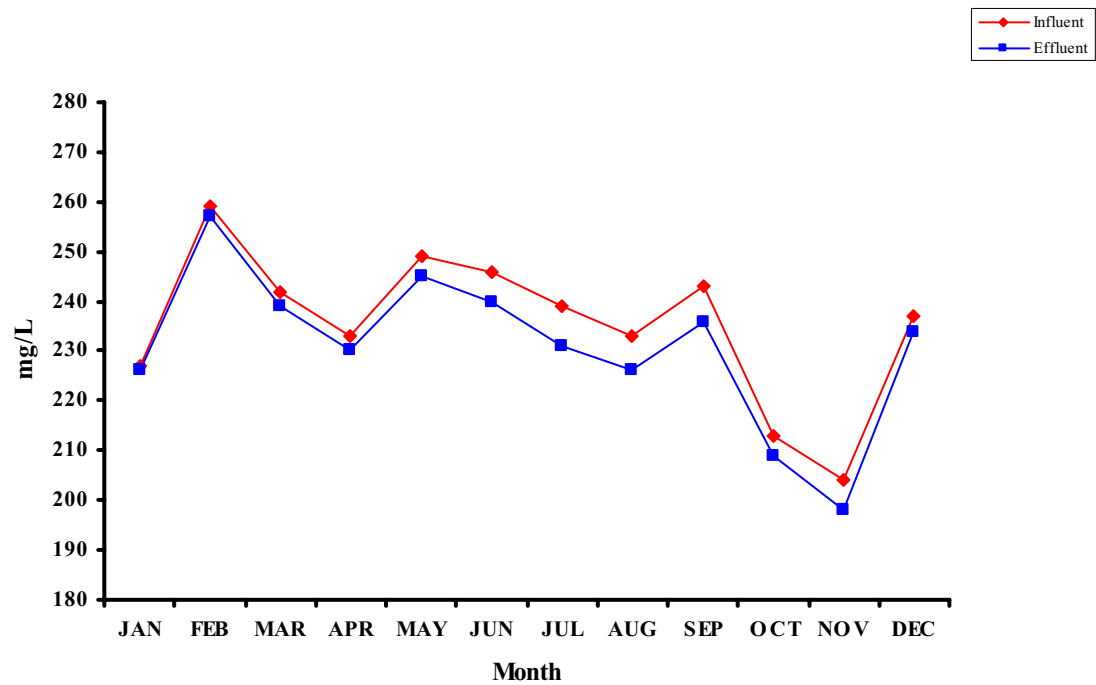
Nitrate 2007 Monthly Averages



O-Phosphate 2007 Monthly Averages



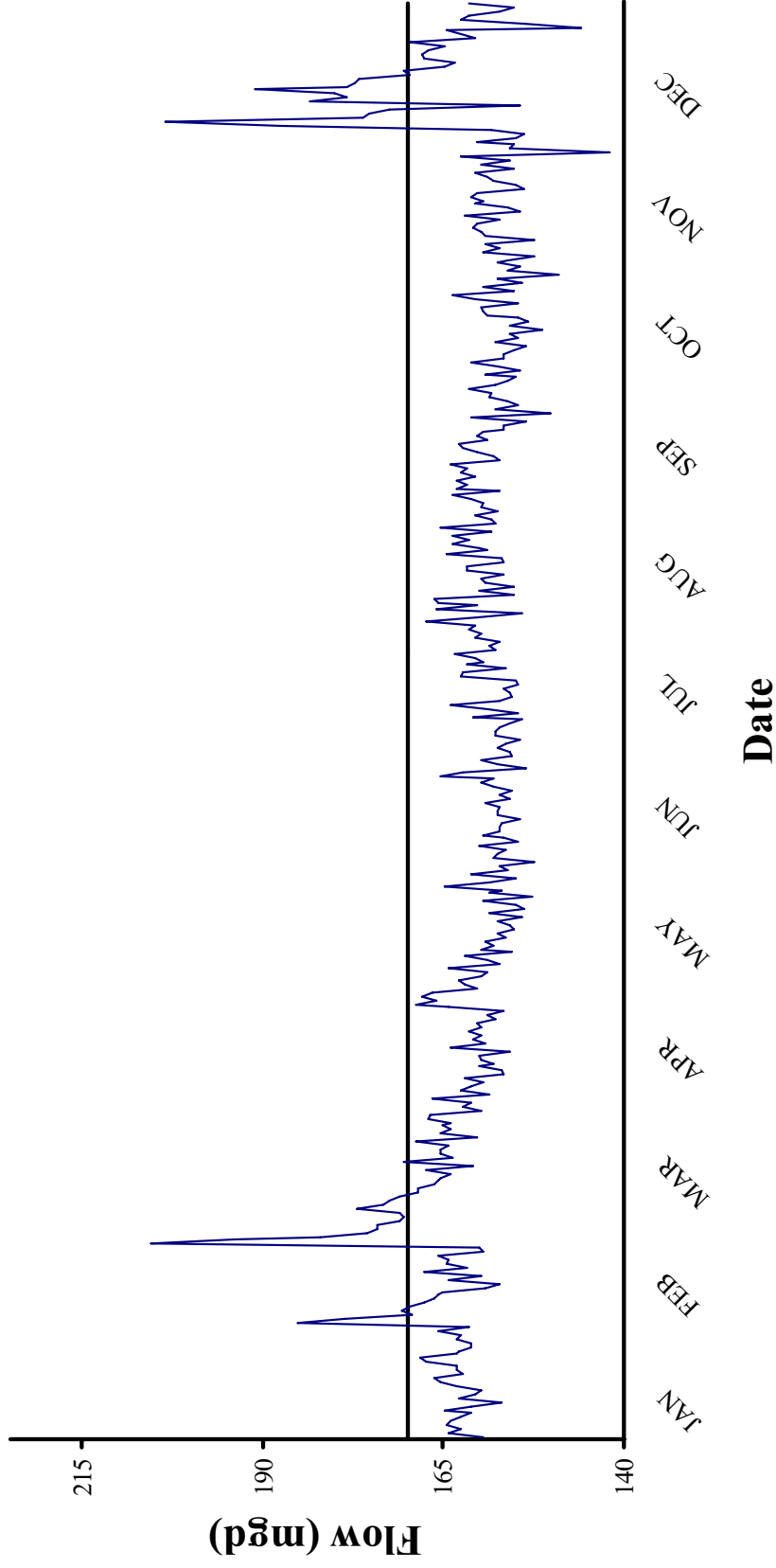
Sulfate 2007 Monthly Averages



E. Daily Values of Selected Parameters

Daily values of selected parameters (e.g. TSS, Flow, TSS Removals, etc.) are tabulated and presented graphically; statistical summary information is provided. The straight horizontal lines on the graphs in this section represent annual means for the constituent.

Point Loma Wastewater Treatment Plant 2007 Daily Flows (mgd)

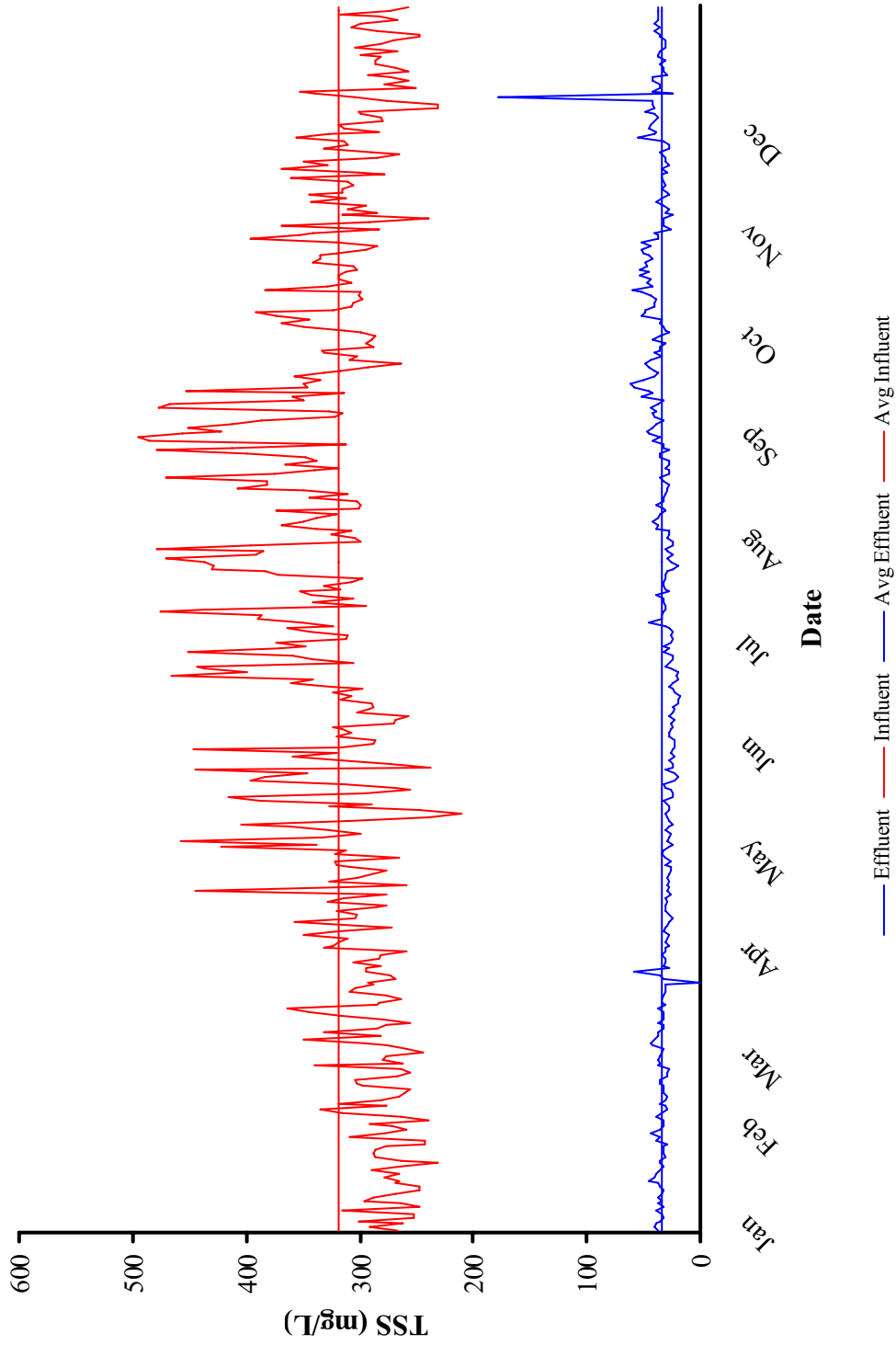


Point Loma Wastewater Treatment Plant

2007 Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	159.4	169.3	173.4	159.4	157.1	154.7	155.8	165.8	163.1	161.1	152.3	203.4
2	164.2	170.8	172.4	162.0	158.8	156.6	154.1	166.2	160.5	156.6	159.1	176.2
3	162.5	169.5	171.2	156.6	162.1	159.5	161.0	155.4	162.6	156.7	159.9	175.3
4	164.6	167.7	168.5	157.0	155.4	157.2	154.7	159.9	161.8	155.2	160.8	172.6
5	164.1	166.3	168.6	160.0	159.6	157.2	159.1	155.2	164.1	153.4	160.4	154.3
6	162.6	165.7	166.2	158.0	158.2	157.1	163.9	159.3	157.3	157.9	157.4	183.6
7	161.3	165.1	165.7	159.9	159.3	154.5	157.2	159.8	158.0	154.8	162.0	178.4
8	164.8	159.2	165.5	160.0	156.3	157.5	155.5	156.6	160.5	155.9	154.5	180.0
9	161.2	157.3	163.9	155.7	157.6	157.6	155.8	161.6	162.3	151.3	156.1	191.0
10	156.9	164.4	167.3	163.9	155.2	157.2	156.6	161.8	162.9	155.9	160.6	178.5
11	162.8	159.8	160.9	159.1	155.9	159.2	154.8	156.7	158.9	153.3	159.5	177.4
12	160.5	167.6	170.6	161.0	157.4	155.9	155.1	156.8	160.5	154.7	161.1	176.7
13	159.7	161.8	163.8	159.8	154.2	157.3	162.5	164.5	159.5	159.0	160.3	169.5
14	163.1	164.6	165.5	161.4	158.8	155.6	162.3	159.0	156.6	159.5	153.9	170.5
15	165.4	164.4	165.5	159.7	153.9	157.9	156.3	160.2	156.8	159.6	154.9	164.8
16	166.2	165.6	164.2	160.4	155.0	159.7	161.7	163.8	153.6	154.8	158.0	163.3
17	162.3	159.5	168.7	157.9	159.4	158.0	159.4	161.4	161.1	160.7	158.8	167.8
18	163.3	160.0	160.4	158.9	152.7	165.4	160.5	163.6	150.3	163.6	160.6	168.0
19	163.1	205.5	165.3	156.8	158.8	162.4	163.4	158.3	157.7	155.2	155.4	167.1
20	167.3	193.9	164.0	164.3	157.0	153.6	157.9	165.4	154.6	159.6	159.7	164.7
21	168.2	182.2	165.3	168.9	164.9	157.4	158.6	157.8	156.1	154.2	155.7	169.7
22	163.2	175.5	164.0	166.0	158.7	159.8	157.3	158.4	158.5	157.4	162.7	160.7
23	162.8	174.2	167.0	167.9	154.9	155.6	160.6	160.5	158.5	149.1	141.8	162.7
24	161.2	174.3	166.8	166.7	161.1	155.8	159.6	157.6	161.6	156.0	155.8	164.5
25	161.1	170.9	159.7	160.4	156.2	157.6	161.3	159.8	157.9	154.4	155.3	146.0
26	163.0	170.4	162.4	161.9	157.1	156.4	160.7	159.4	156.0	157.5	160.3	153.6
27	162.7	171.1	161.3	162.8	152.5	154.4	167.5	161.3	154.9	156.1	155.0	162.5
28	165.8	177.1	166.6	159.9	158.0	157.9	160.3	163.7	159.1	152.5	154.0	161.4
29	161.4		158.5	158.8	157.4	157.9	154.1	157.1	154.5	159.6	158.3	157.2
30	185.2		162.5	164.4	156.3	157.3	166.1	163.2	157.6	157.2	187.3	155.1
31	178.6		161.2		160.1		160.3	161.8		159.1		161.4
Average	164.1	169.8	165.4	161.0	157.4	157.5	159.2	160.4	158.6	156.5	158.4	169.0
Minimum	156.9	157.3	158.5	155.7	152.5	153.6	154.1	155.2	150.3	149.1	141.8	146.0
Maximum	185.2	205.5	173.4	168.9	164.9	165.4	167.5	166.2	164.1	163.6	187.3	203.4
Total	5088.4	4753.5	5126.9	4829.0	4879.9	4724.3	4933.8	4971.8	4757.4	4851.9	4751.3	5238.0
												Annual Summary
												161.4
												169.0
												146.0
												203.4
												5238.0
												58906.1

Point Loma Wastewater Treatment Plant 2007 Total Suspended Solids



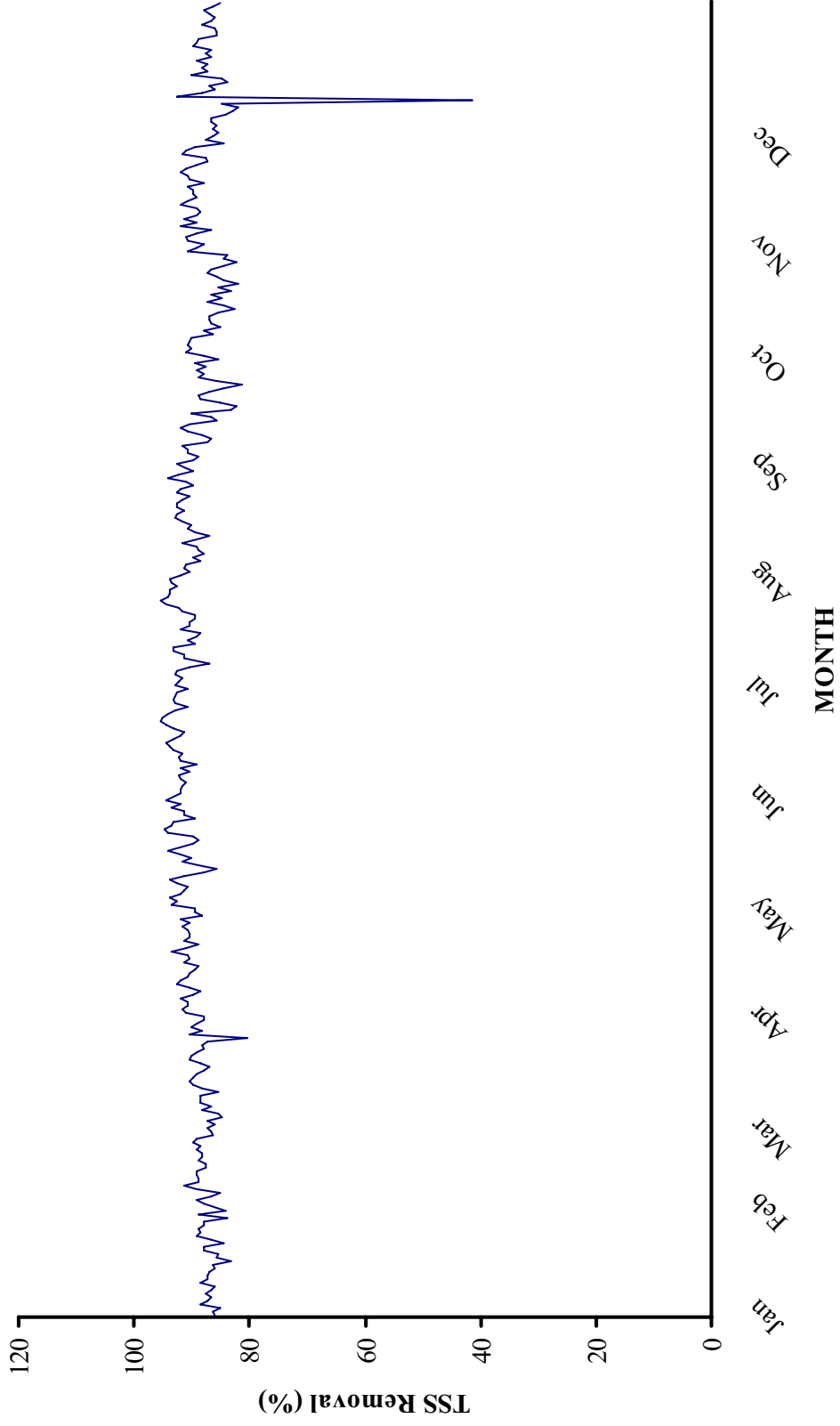
Point Loma Wastewater Treatment Plant

2007 Total Suspended Solids (mg/L)

Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	267	37	272	33	331	38	271	31	362	27	270	26	351	46	338	38	316	42	392	48	311	27	232	40	
2	291	40	291	32	285	33	302	29	404	25	269	22	390	34	320	35	327	39	323	48	295	32	232	42	
3	262	39	239	32	276	32	358	27	311	27	257	28	386	34	374	31	477	44	308	41	343	39	277	42	
4	301	35	263	39	256	37	304	24	239	29	302	24	476	33	301	33	468	37	306	40	312	34	304	178	
5	252	32	316	34	280	33	302	28	210	30	291	22	436	30	300	39	349	33	298	39	344	28	339	25	
6	252	34	335	29	317	32	320	31	248	28	288	24	294	31	303	32	359	51	301	44	316	29	352	42	
7	316	39	276	31	344	33	287	30	327	27	290	20	342	32	344	32	314	42	300	52	316	34	250	35	
8	248	33	318	36	364	37	276	31	289	29	317	20	305	33	310	31	453	45	384	60	305	31	278	36	
9	263	37	282	31	284	31	328	29	388	32	307	17	343	39	350	29	346	58	329	42	310	32	257	42	
10	296	34	266	29	283	34	314	30	416	25	324	22	353	28	407	29	349	62	308	47	360	34	274	42	
11	288	37	260	32	264	34	277	26	296	24	298	24	317	30	382	28	334	50	318	43	278	34	293	29	
12	268	34	255	32	276	32	444	29	256	26	325	28	332	32	382	33	357	41	318	53	301	29	257	33	
13	247	32	297	33	309	30	314	28	268	30	360	24	307	32	470	35	332	37	312	46	368	34	268	32	
14	248	35	303	36	304	30	259	29	314	32	342	19	297	31	376	28	317	41	302	54	328	27	286	36	
15	268	37	304	36	288	31	327	28	396	23	465	21	372	31	339	28	292	45	305	47	350	31	286	31	
16	266	45	267	29	292	35	302	29	384	20	399	20	384	29	318	31	264	49	342	49	285	31	281	38	
17	278	40	255	29	269	32	289	28	346	23	436	26	430	24	365	27	309	44	334	42	265	34	300	37	
18	266	39	263	27	273	35	276	26	444	30	443	31	428	20	338	27	302	34	335	45	289	36	267	36	
19	289	35	340	37	294	58	309	26	238	25	305	28	436	26	347	35	332	40	321	50	332	28	304	31	
20	263	32	262	36	295	28	321	31	274	24	342	24	470	29	399	36	333	36	295	52	311	28	282	31	
21	232	36	279	37	282	33	322	26	317	28	359	24	392	24	478	28	288	36	284	44	313	33	270	30	
22	264	35	277	35	305	30	265	31	359	23	452	32	385	29	413	32	295	31	321	52	356	55	247	35	
23	287	31	244	34	283	31	322	34	321	26	371	27	478	31	312	32	289	42	396	37	326	40	247	35	
24	288	33	259	33	281	34	312	33	446	25	348	32	397	25	485	42	287	35	352	38	283	39	284	40	
25	287	32	276	42	259	31	422	27	317	22	374	26	300	24	495	36	300	27	341	41	314	46	308	36	
26	276	33	296	43	332	30	338	25	288	23	312	24	304	29	456	46	314	31	283	26	319	44	300	40	
27	242	29	349	41	324	27	458	29	286	23	311	26	325	28	422	47	350	33	369	33	279	40	267	37	
28	242	39	281	38	319	30	333	27	321	27	344	24	307	28	451	42	368	35	291	32	282	38	283	37	
29	309	35				310	29	299	26	308	28	364	27	338	39	413	39	344	34	239	32	299	40	317	38
30	278	44				350	28	326	30	316	26	323	31	368	37	387	32	374	51	315	25	301	48	273	37
31	258	36				318	32		324	25			350	42	322	41		285	31				257	38	
Avg	271	36	283	34	298	33	319	29	323	26	340	25	368	31	377	34	338	41	320	43	313	35	280	41	
Min	232	29	239	27	256	27	259	24	210	20	257	17	294	20	300	27	264	27	239	25	265	27	232	25	
Max	316	45	349	43	364	58	458	34	446	32	465	32	478	46	495	47	477	62	396	60	368	55	352	178	

Bold = Batch or sample did not meet QC requirements on these dates, used median TSS values from 2006 instead of result value.

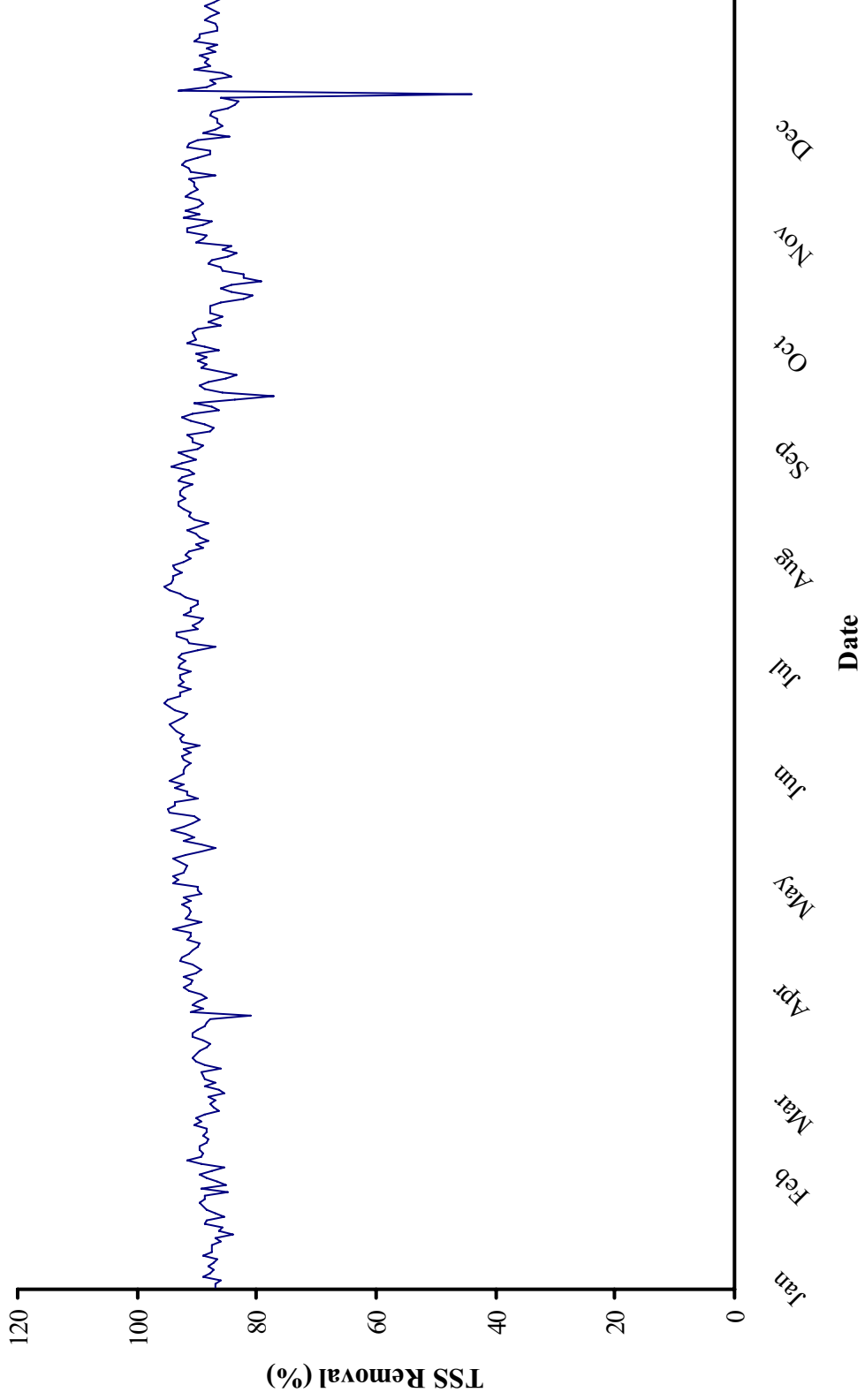
Point Loma Wastewater Treatment Plant 2007 TSS Removal (%) at Point Loma



Point Loma Wastewater Treatment Plant
2007 Total Suspended Solids Removals (%) at Point Loma

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem
1	86.1	87.9	88.5	88.6	92.5	90.4	86.9	88.8	86.7	87.8	91.3	82.8
2	86.3	89	88.4	90.4	93.8	91.8	91.3	89.1	88.1	85.1	89.2	81.9
3	85.1	86.6	88.4	92.5	91.3	89.1	91.2	91.7	90.8	86.7	88.6	84.8
4	88.4	85.2	85.5	92.1	87.9	92.1	93.1	89	92.1	86.9	89.1	41.4
5	87.3	89.2	88.2	90.7	85.7	92.4	93.1	87	90.5	86.9	91.9	92.6
6	86.5	91.3	89.9	90.3	88.7	91.7	89.5	89.4	85.8	85.4	90.8	88.1
7	87.7	88.8	90.4	89.5	91.7	93.1	90.6	90.7	86.6	82.7	89.2	86
8	86.7	88.7	89.8	88.8	90	93.7	89.2	90	90.1	84.4	89.8	87.1
9	85.9	89	89.1	91.2	91.8	94.5	88.6	91.7	83.2	87.2	89.7	83.7
10	88.5	89.1	88	90.4	94	93.2	92.1	92.9	82.2	84.7	90.6	84.7
11	87.2	87.7	87.1	90.6	91.9	91.9	90.5	92.7	85	86.5	87.8	90.1
12	87.3	87.5	88.4	93.5	89.8	91.4	90.4	91.4	88.5	83.3	90.4	87.2
13	87	88.9	90.3	91.1	88.8	93.3	89.6	92.6	88.9	85.3	90.8	88.1
14	85.9	88.1	90.1	88.8	89.8	94.4	89.6	92.6	87.1	82.1	91.8	87.4
15	86.2	88.2	89.2	91.4	94.2	95.5	91.7	91.7	84.6	84.6	91.1	89.2
16	83.1	89.1	88	90.4	94.8	95	92.4	90.3	81.4	85.7	89.1	86.5
17	85.6	88.6	88.1	90.3	93.4	94	94.4	92.6	85.8	87.4	87.2	87.7
18	85.3	89.7	87.2	90.6	93.2	93	95.3	92	88.7	86.6	87.5	86.5
19	87.9	89.1	80.3	91.6	89.5	90.8	94	89.9	88	84.4	91.6	89.8
20	87.8	86.3	90.5	90.3	91.2	93	93.8	91	89.2	82.4	91	89
21	84.5	86.7	88.3	91.9	91.2	93.3	93.9	94.1	87.5	84.5	89.5	88.9
22	86.7	87.4	90.2	88.3	93.6	92.9	92.5	92.3	89.5	83.8	84.6	85.8
23	89.2	86.1	89	89.4	91.9	92.7	93.5	89.7	85.5	90.7	87.7	85.8
24	88.5	87.3	87.9	89.4	94.4	90.8	93.7	91.3	87.8	89.2	86.2	85.9
25	88.9	84.8	88	93.6	93.1	93	92	92.7	91	88	85.4	88.3
26	88	85.5	91	92.6	92	92.3	90.5	89.9	90.1	90.8	86.2	86.7
27	88	88.3	91.7	93.7	92	91.6	91.4	88.9	90.6	91.1	85.7	86.1
28	83.9	86.5	90.6	91.9	91.6	93	90.9	90.7	90.5	89	86.5	86.9
29	88.7		90.6	91.3	90.9	92.6	88.5	90.6	90.1	86.6	86.6	88
30	84.2		92	90.8	91.8	90.4	89.9	91.7	86.4	92.1	84.1	86.4
31	86		89.9	92.3	92.3	88	88	87.3	89.1	89.1	85.2	85.2
Avg	86.7	87.9	88.9	90.9	91.6	92.6	91.4	90.8	87.7	86.5	88.7	85.4
Min	83.1	84.8	80.3	88.3	85.7	89.1	86.9	87.0	81.4	82.1	84.1	41.4
Max	89.2	91.3	92.0	93.7	94.8	95.5	95.3	94.1	92.1	92.1	91.9	92.6
Annual Summary												89.1
												85.4
												41.4
												95.5

Point Loma Wastewater Treatment Plant 2007 TSS Removal (%) Systemwide

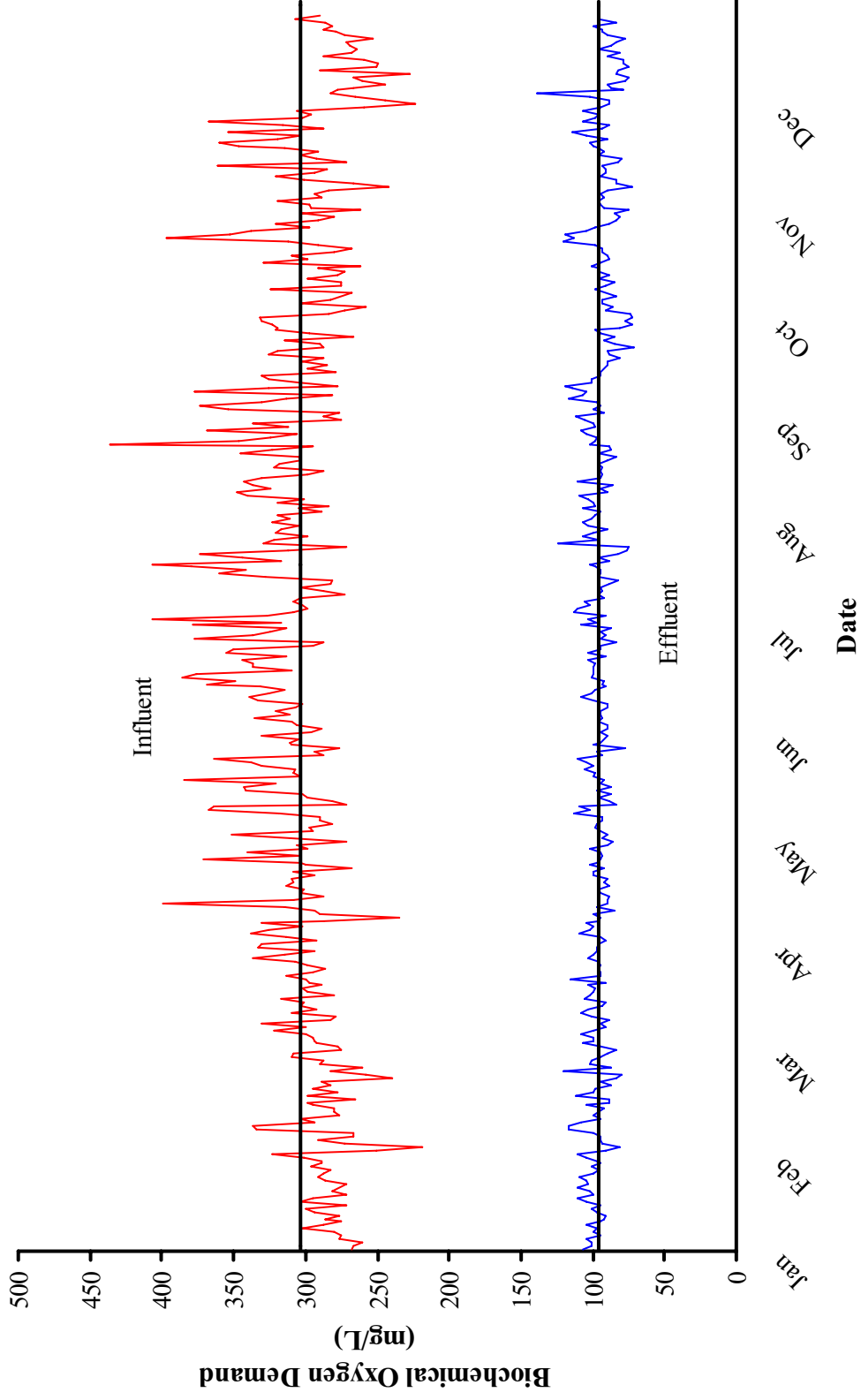


Point Loma Wastewater Treatment Plant

2007 Total Suspended Solids Removals (%) Systemwide

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem
1	86.9	88.3	88.7	89.2	92.9	91.1	86.9	89.5	87.1	88	91.8	83.7
2	86.9	89.6	88.9	90.8	94.1	92.2	91.4	90.1	88.8	85.6	89.9	83
3	86	87.5	89.4	92.8	91.9	89.7	91.7	91.7	90.9	87.8	89.1	85.9
4	88.9	85.5	86.1	92.5	89.2	92.5	93.3	90	92.4	87.8	89.6	44.1
5	87.9	89.2	88.7	91.2	86.8	92.8	93.4	88.2	90.7	87.8	92	93
6	87.1	91.6	90.2	90.8	89.3	92.1	89.8	90.3	86.3	86	91.1	88.5
7	88.1	89.3	90.8	89.9	92.1	93.5	90.8	91.2	87.5	82.2	89.8	87
8	87.3	89.1	90.2	89.5	90.4	94	89.5	90.9	90.3	80.8	90.3	87.7
9	86.7	89.6	89.7	91.6	92	94.7	88.9	92.2	83.5	84.1	90.5	84.3
10	88.9	89.6	88.5	91	94.2	93.5	92.3	93.2	77.2	85.9	91.3	85.6
11	87.6	88.5	87.9	91.1	92.3	92.3	90.9	93.1	85.7	84.2	86.9	90.5
12	87.4	88.1	89.1	94	90.6	91.7	90.9	91.8	88.8	79.1	91.1	87.9
13	87.6	89.1	90.7	91.6	89.5	93.7	90	92.9	89.7	82.2	91.3	88.7
14	85.9	88.3	90.6	89.4	90.3	94.6	90	92.9	88.1	82.2	92.5	88.2
15	86.8	88.5	89.8	91.8	94.5	95.6	91.8	92.2	85	85.6	91.8	89.6
16	83.8	90.4	88.6	91.2	94.9	95	92.7	90.6	83.4	86	89.9	86.9
17	86.4	89.3	88.3	90.9	93.7	92.9	94.6	93	86.4	88	87.8	88.3
18	85.8	90.2	87.7	91.4	93.6	92.8	95.4	92.6	89.3	87.5	87.8	86.5
19	88.6	88.6	81	92.4	90	91	94.2	90.5	88.3	84.7	91.6	90.3
20	88.5	86.4	90.9	91	91.6	93	94	91.4	89.9	83.3	91.2	89.6
21	85.3	87.2	88.9	92.1	91.6	92.3	94.1	94.3	88.4	85.7	89.8	89.6
22	87	87.7	90.7	89.3	93.8	92.9	92.6	92.5	90.1	84.3	84.6	86.6
23	88.4	87	89.9	90	92.3	92.9	93.7	90.1	86.3	90.2	88.9	86.6
24	89.1	88	88.5	90	94.6	90.9	93.9	91.5	88.6	89.1	87	86.8
25	89.5	85.3	89.2	93.9	93.4	93.2	92.2	93	91.6	88.5	85.8	88.8
26	88.8	86.2	91.4	93	92.3	92.7	91.1	89.9	90.2	91.5	86.6	87.8
27	88.8	88.7	92.1	93.9	92.3	91.8	91.8	89.1	90.5	91.5	86.6	86.3
28	84.7	86.8	90.9	92.2	91.9	93.1	91.2	90.8	90.7	89.1	87.7	87.6
29	89.2	85	90.8	91.8	91	92.5	88.9	90.7	90	87.6	87.5	88.6
30	85	85	92.3	91.6	92.1	90	90.1	91.7	86	92.3	84.9	87.2
31	86.5	86.5	90.2	92.4	92.4	88.2	88.2	87.9	89.6	89.6	86.1	86.1
Avg	87.3	88.3	89.4	91.4	92.0	92.7	91.6	91.3	88.1	86.4	89.2	86.2
Min	83.8	85.3	81.0	89.2	86.8	89.7	86.9	87.9	77.2	79.1	84.6	44.1
Max	89.5	91.6	92.3	94.0	94.9	95.6	95.4	94.3	92.4	92.3	92.5	93.0
Annual Summary												89.5
Annual Summary												44.1
Annual Summary												95.6

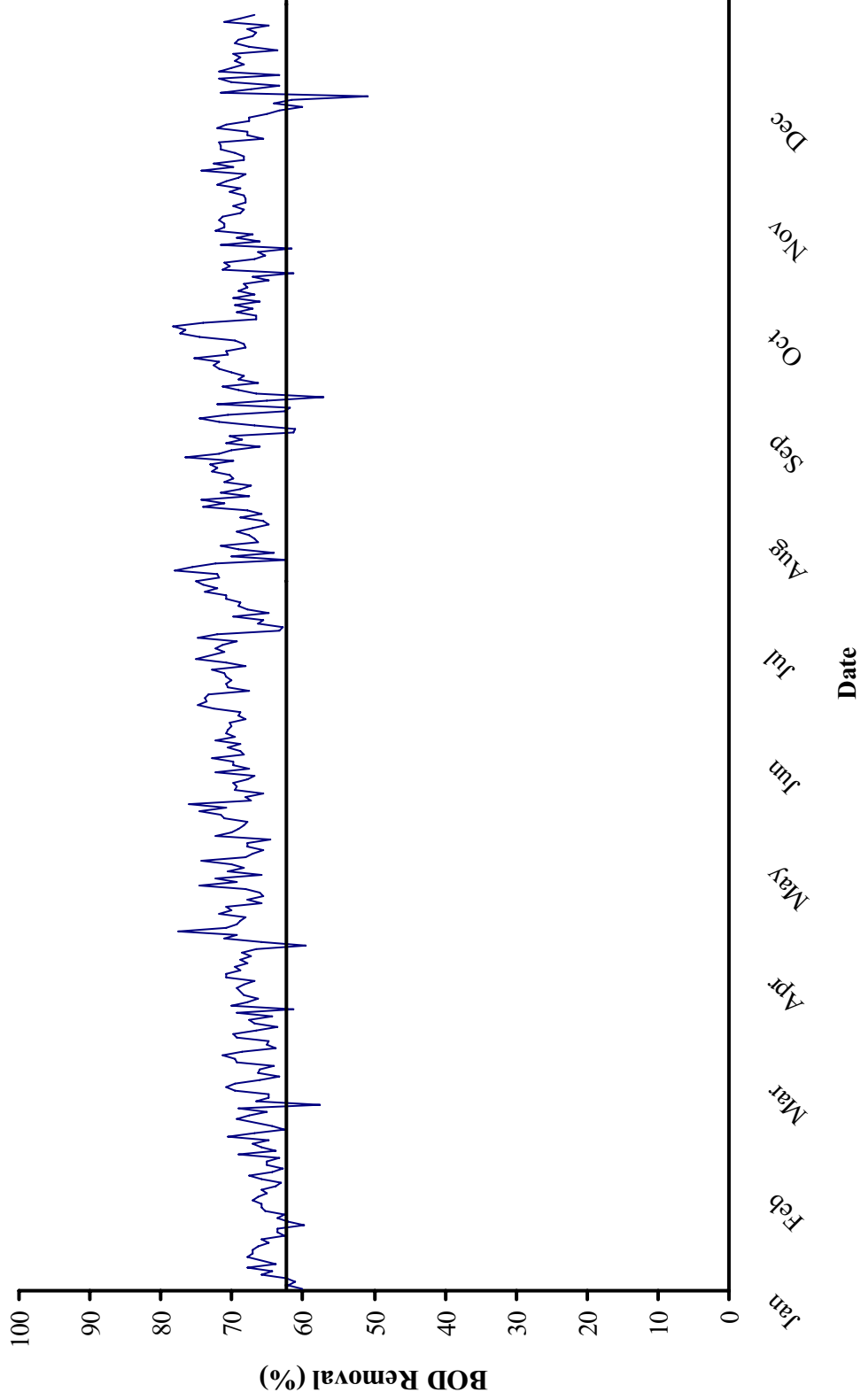
Point Loma Wastewater Treatment Plant 2007 Biochemical Oxygen Demand



**Point Loma Wastewater Treatment Plant
2007 Biochemical Oxygen Demand (mg/L)**

Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	268	107	273	93	278	94	292	91	311	93	296	94	313	87	323	107	287	112	284	75	296	92	223	89
2	266	101	291	94	292	107	313	95	351	90	289	90	378	108	311	101	277	92	273	91	297	94	245	88
3	260	101	267	95	294	99	338	109	295	94	306	90	317	97	319	98	354	100	258	87	319	96	265	102
4	277	104	267	99	295	100	326	102	297	98	309	96	407	103	289	95	373	95	304	93	289	92	283	139
5	275	94	334	117	300	108	302	99	281	97	335	93	327	91	305	107	331	97	283	93	294	95	278	79
6	280	100	336	117	322	99	330	104	290	93	311	95	308	113	284	98	313	117	275	84	284	91	267	87
7	302	97	294	108	300	91	287	96	290	93	321	94	299	111	320	100	281	107	268	91	242	72	245	90
8	287	104	304	94	331	95	235	95	318	113	307	90	302	102	301	103	377	105	324	98	266	83	261	78
9	275	94	276	100	283	89	290	99	367	102	302	90	308	106	340	109	326	114	275	91	301	84	267	75
10	286	92	280	96	279	101	293	85	364	109	333	99	304	92	348	90	278	119	275	85	321	94	227	83
11	277	91	280	92	309	108	315	97	272	84	339	108	273	96	324	94	303	101	298	96	294	91	290	82
12	294	97	295	104	292	103	399	90	281	89	326	101	288	93	336	86	326	101	278	88	285	91	251	75
13	300	101	299	88	304	93	308	90	298	96	314	98	304	94	343	111	331	95	273	96	361	93	249	79
14	271	95	265	88	301	92	287	88	302	87	332	91	282	88	330	94	279	94	291	96	272	82	259	79
15	304	104	299	112	317	106	304	95	341	97	368	93	281	82	299	93	298	92	262	101	292	80	288	90
16	295	110	278	99	280	102	301	96	343	87	349	93	328	96	287	94	285	90	329	94	304	96	268	81
17	272	99	295	98	298	99	313	88	321	94	386	101	360	94	322	93	302	91	299	89	291	92	264	96
18	281	102	283	87	302	98	308	92	384	92	376	100	341	95	318	96	288	81	310	91	315	96	269	87
19	277	111	289	94	289	103	309	90	303	99	309	100	379	98	303	90	325	89	280	93	347	99	272	83
20	272	103	240	84	297	91	293	100	308	98	337	99	407	102	305	83	320	90	268	93	360	102	253	78
21	286	104	258	80	300	116	308	99	307	106	336	98	317	89	345	96	288	71	291	98	320	90	273	90
22	291	109	283	120	313	94	268	92	330	100	344	103	344	96	323	87	290	85	312	120	303	104	279	93
23	288	100	261	87	295	95	300	102	338	104	313	91	374	82	295	89	314	92	397	113	354	114	288	93
24	282	96	290	102	286	96	303	97	364	110	355	103	312	76	436	102	266	85	352	119	288	93	281	99
25	296	101	287	101	299	95	371	95	288	94	350	95	271	75	347	98	297	94	338	104	316	88	286	83
26	289	95	309	94	307	96	304	93	293	97	295	94	329	124	324	97	321	98	297	98	367	107	307	96
27	289	97	308	90	337	103	340	94	277	77	288	84	322	96	306	104	319	81	321	89	302	98	290	96
28	301	105	275	84	315	100	299	102	309	100	377	94	299	107	369	108	323	73	291	84	296	96	288	89
29	323	110			293	97	306	91	311	94	337	91	321	99	312	98	330	77	280	81	306	107	286	92
30	251	91			333	97	271	86	305	92	324	94	317	90	337	100	332	72	302	85	259	95	288	90
31	219	81			330	96			330	90			305	103	275	106			262	75			278	102
Avg	282	100	286	97	302	99	307	95	315	96	329	95	323	96	322	98	311	94	295	93	305	94	270	89
Min	219	81	240	80	278	89	235	85	272	77	288	84	271	75	275	83	266	71	258	75	242	72	223	75
Max	323	111	336	120	337	116	399	109	384	113	386	108	407	124	436	111	377	119	397	120	367	114	307	139

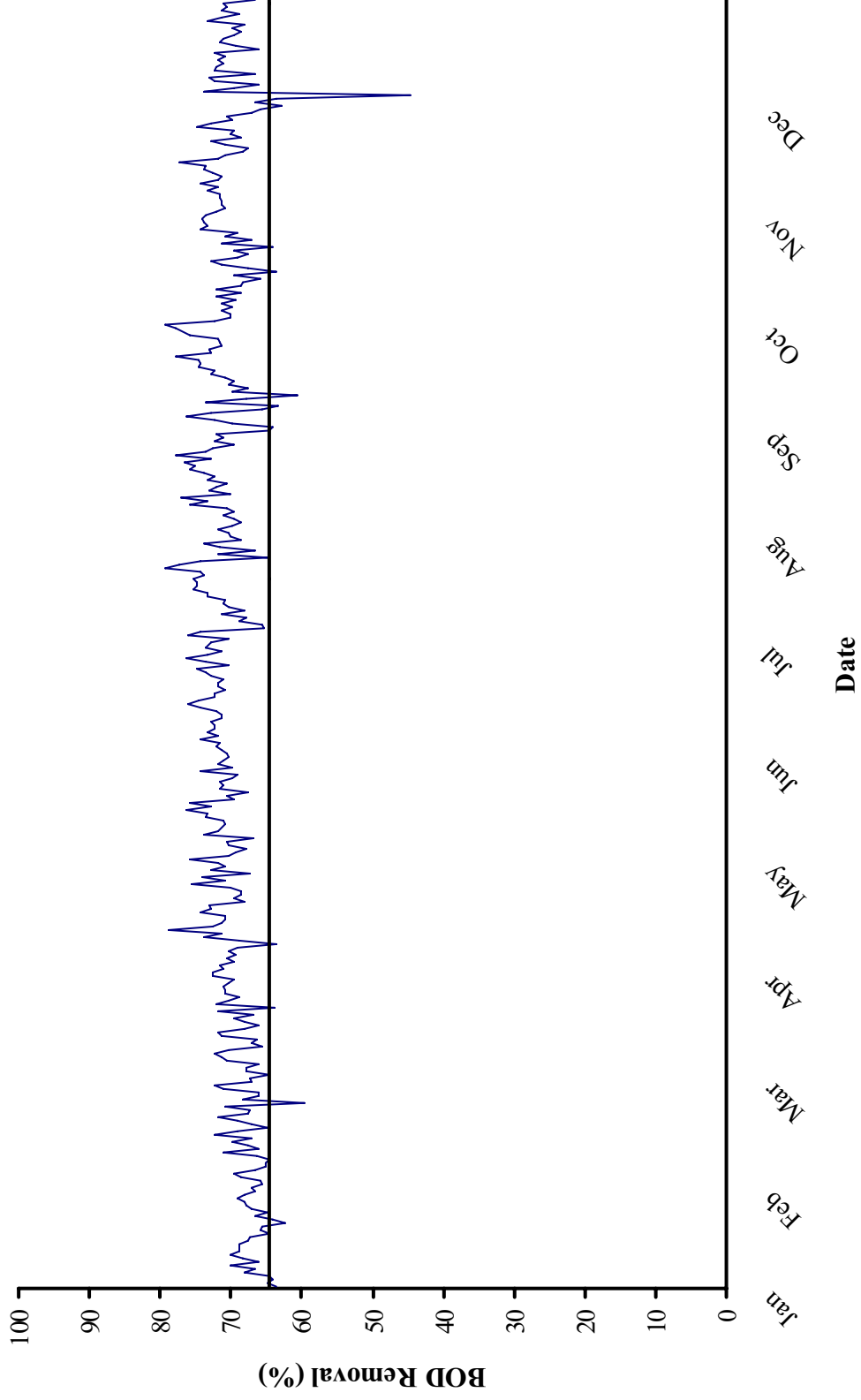
Point Loma Wastewater Treatment 2007 BOD Removal (%) at Point Loma



**Point Loma Wastewater Treatment Plant
2007 Biochemical Oxygen Demand Removals (%) at Point Loma**

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem
1	60.1	65.9	66.2	68.8	70.1	68.2	72.2	66.9	61.0	73.9	68.9	60.1
2	62.0	67.7	63.4	69.6	74.4	68.9	71.4	67.5	66.8	66.7	68.4	64.1
3	61.2	64.4	66.3	67.8	68.1	70.6	69.4	69.3	71.8	66.7	69.9	61.5
4	62.5	62.9	66.1	68.7	67.0	68.9	74.7	67.1	74.5	69.4	68.2	50.9
5	65.8	65.0	64.0	67.2	65.5	72.2	72.2	64.9	70.7	67.1	68.0	71.6
6	64.3	65.2	69.3	68.5	67.9	69.5	63.3	65.5	62.6	69.5	68.3	67.4
7	67.9	63.3	69.7	66.6	67.9	70.7	62.9	68.8	61.9	66.0	70.2	63.3
8	63.8	69.1	71.3	59.6	64.5	70.7	66.2	65.8	72.1	69.8	68.8	70.1
9	65.8	63.8	68.6	65.9	72.2	70.2	65.6	67.9	65.0	66.9	72.1	71.9
10	67.8	65.7	63.8	71.0	70.1	70.3	69.7	74.1	57.2	69.1	70.7	63.4
11	67.1	67.1	65.0	69.2	69.1	68.1	64.8	71.0	66.7	67.8	69.0	71.7
12	67.0	64.7	64.7	77.4	68.3	69.0	67.7	74.4	69.0	68.3	68.1	70.1
13	66.3	70.6	69.4	70.8	67.8	68.8	69.1	67.6	71.3	64.8	74.2	68.3
14	64.9	66.8	69.8	69.3	71.2	72.6	68.8	71.5	66.3	67.0	69.9	69.5
15	65.8	62.5	66.6	68.8	71.6	74.7	70.8	68.9	69.1	61.5	72.6	68.8
16	62.7	64.4	63.6	68.1	74.6	73.6	70.7	67.2	68.4	71.4	68.4	69.8
17	63.6	66.8	66.8	71.9	70.7	73.8	73.9	71.1	70.2	70.2	68.4	63.6
18	63.7	69.3	67.5	70.1	76.0	73.4	72.1	69.8	71.9	71.0	69.5	67.7
19	59.9	67.5	64.4	70.9	67.3	67.6	74.1	70.3	72.6	66.8	71.5	69.5
20	62.1	65.0	69.4	65.9	68.2	70.6	74.9	72.8	71.9	65.3	71.7	69.2
21	63.6	69.0	61.3	67.9	65.5	70.8	71.9	72.2	75.3	66.3	71.9	67.0
22	62.5	57.6	70.0	65.7	69.7	70.1	72.1	73.1	70.7	61.5	65.7	66.7
23	65.3	66.7	67.8	66.0	69.2	70.9	78.1	69.8	70.7	71.5	67.8	67.7
24	66.0	64.8	66.4	68.0	69.8	71.0	75.6	76.6	68.0	66.2	67.7	64.8
25	65.9	64.8	68.2	74.7	67.7	72.9	72.3	71.8	68.4	69.2	72.2	71.0
26	67.1	69.6	68.7	69.4	66.9	68.1	62.3	70.1	69.5	67.0	70.8	68.7
27	66.4	70.8	69.4	72.4	72.2	70.8	70.2	66.0	74.6	72.3	67.5	66.9
28	65.1	69.5	68.3	65.9	67.6	75.1	64.2	70.7	77.4	71.1	67.6	69.1
29	65.9		66.9	70.6	69.8	73.0	69.2	68.6	76.7	71.1	65.0	67.8
30	63.7		70.9	68.3	69.8	71.0	71.6	70.3	78.3	71.9	63.3	68.8
31	63.0		70.9	72.7	72.7	66.2	66.2	61.5	71.4	71.4	63.3	63.3
Avg	64.5	66.1	67.2	68.8	69.5	70.9	70.0	69.5	69.7	68.3	69.2	68.4
Min	59.9	57.6	61.3	59.6	64.5	67.6	62.3	61.5	57.2	61.5	63.3	50.9
Max	67.9	70.8	71.3	77.4	76.0	75.1	78.1	76.6	78.3	73.9	74.2	71.9
												Annual Summary
												68.4
												50.9
												78.3

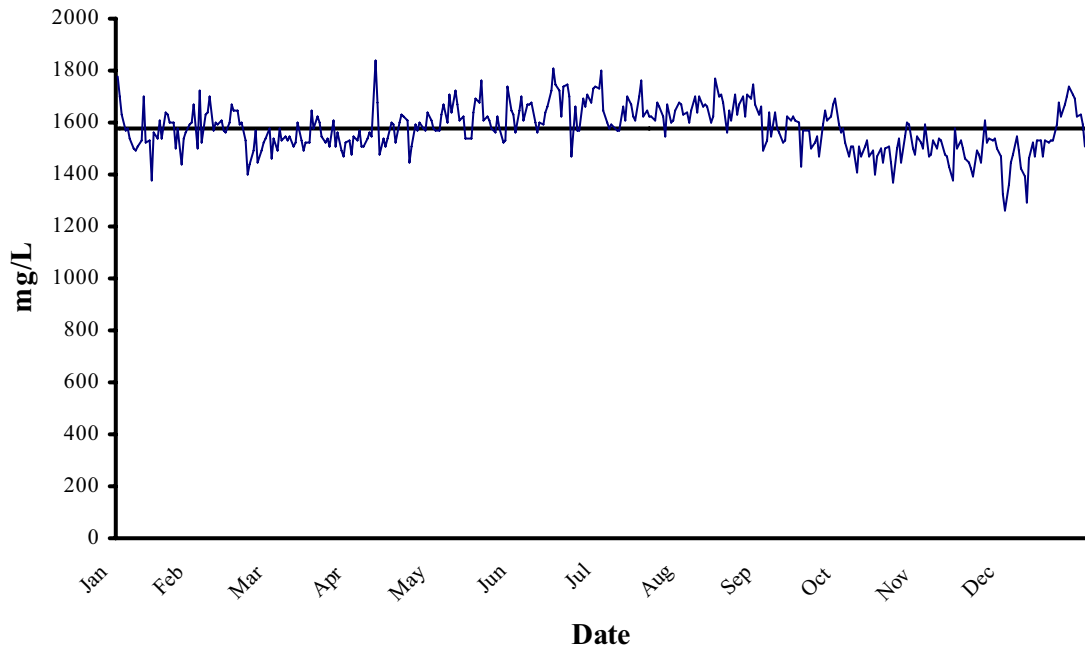
Point Loma Wastewater Treatment Plant 2007 BOD Removal (%) Systemwide



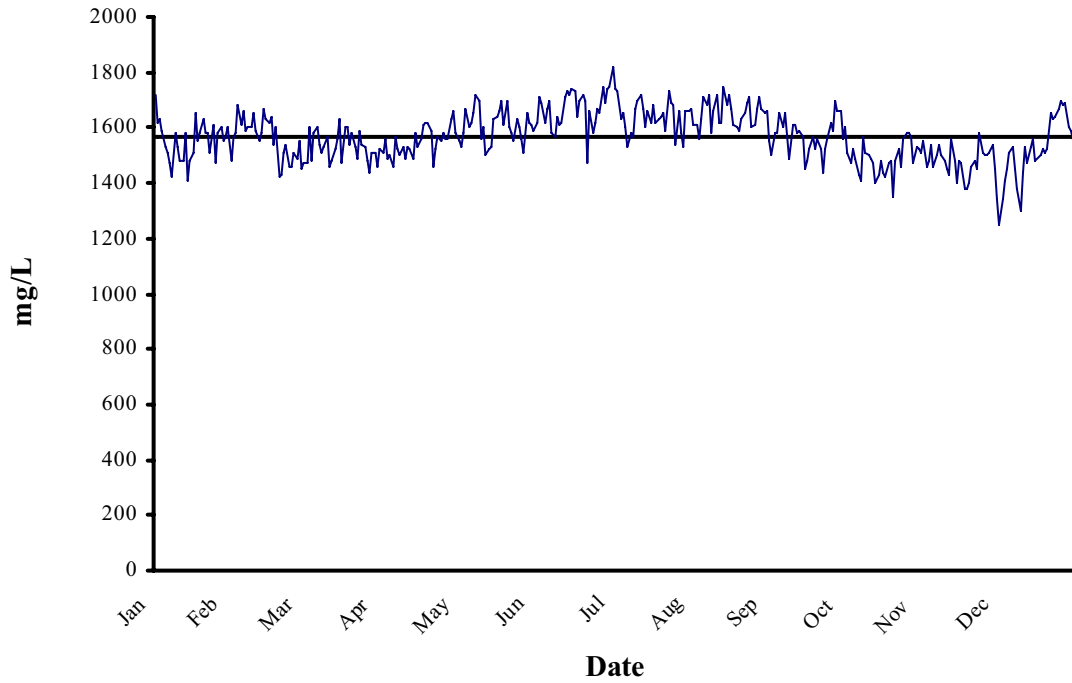
**Point Loma Wastewater Treatment Plant
2007 Biochemical Oxygen Demand Removals (%) Systemwide**

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem
1	63.7	68.5	67.3	71.1	71.9	70.6	73.6	70.0	64.0	72.2	72.0	62.8
2	64.8	69.5	64.7	71.6	75.8	71.3	72.8	70.4	69.8	70.0	70.8	66.7
3	64.0	66.7	67.9	69.6	70.3	72.0	70.2	71.8	72.4	70.1	71.3	63.5
4	64.7	65.2	67.9	70.6	69.4	71.6	76.1	69.9	76.3	71.2	71.4	44.6
5	68.0	65.0	66.0	69.4	67.9	74.3	74.2	68.6	72.7	69.9	71.6	73.7
6	66.6	64.7	70.6	70.2	70.3	71.9	65.4	69.6	65.6	71.3	71.5	69.5
7	70.0	66.4	71.4	69.0	70.6	73.2	65.5	71.0	63.3	69.3	73.3	66.0
8	66.0	71.1	72.4	63.5	66.8	72.4	68.9	69.5	73.6	72.0	71.8	72.4
9	68.3	66.1	70.4	68.9	73.8	72.4	67.9	70.5	67.8	68.7	74.4	73.1
10	70.0	67.7	65.6	73.7	71.8	72.7	71.4	75.9	60.7	72.0	71.9	66.6
11	68.9	69.8	67.2	71.4	71.4	71.2	68.1	73.3	69.8	68.6	71.4	72.4
12	68.8	67.0	66.4	78.8	70.7	71.3	70.4	77.1	67.5	68.4	72.5	72.1
13	68.8	72.4	71.2	72.6	71.0	72.0	71.1	70.1	70.4	65.8	73.9	71.0
14	67.5	69.0	71.8	71.4	73.6	74.4	70.9	73.0	69.5	69.6	73.5	71.9
15	67.4	64.8	68.0	70.8	73.3	76.0	73.3	72.0	70.8	63.7	77.2	70.9
16	64.5	67.0	66.2	70.9	76.2	74.6	73.3	70.5	72.7	67.5	71.8	72.2
17	65.9	69.1	68.1	74.3	72.7	72.3	75.4	73.2	72.4	71.2	70.8	66.1
18	65.5	71.8	69.7	72.8	75.8	72.3	74.7	72.3	74.5	72.9	68.3	69.4
19	62.3	67.5	66.8	73.1	69.5	70.9	74.8	73.9	74.2	69.2	67.6	71.6
20	64.2	67.3	71.7	68.2	70.5	71.7	75.2	75.8	74.6	67.6	70.7	71.0
21	66.7	70.7	63.9	69.5	67.7	71.9	73.8	75.0	77.7	69.7	72.7	69.5
22	64.9	59.5	72.1	68.7	71.5	71.1	74.2	76.5	72.9	64.2	68.5	68.6
23	67.0	68.3	70.2	68.6	71.1	72.9	79.3	72.8	73.1	71.4	70.1	69.9
24	67.9	66.2	68.9	70.1	71.6	73.5	77.4	77.7	71.4	67.1	69.7	68.2
25	68.1	66.2	70.7	75.5	69.9	74.9	74.4	73.5	71.5	70.9	74.9	73.4
26	69.1	71.0	70.9	70.8	69.1	70.4	64.8	72.6	71.9	69.0	72.7	71.2
27	68.2	72.3	71.0	74.0	74.4	73.5	71.7	69.7	75.7	74.2	69.9	68.9
28	66.6	67.2	70.3	67.3	69.9	76.3	66.7	72.3	76.9	73.3	70.6	71.3
29	67.0		69.5	72.7	71.7	73.2	71.6	71.0	77.7	73.9	67.1	70.5
30	65.6		72.6	70.7	71.1	71.2	73.7	72.0	79.2	74.0	65.8	71.0
31	65.9		72.5		70.4		68.7	64.5		73.6		66.7
Avg	66.7	67.8	69.2	71.0	71.3	72.6	71.9	72.1	71.7	70.1	71.3	68.9
Min	62.3	59.5	63.9	63.5	66.8	70.4	64.8	64.5	60.7	63.7	65.8	44.6
Max	70.0	72.4	72.6	78.8	76.2	76.3	79.3	77.7	79.2	74.2	77.2	73.7
Annual Summary												
												70.4
												44.6
												79.3

**Point Loma Influent
2007 Total Dissolved Solids (mg/L)**



**Point Loma Effluent
2007 Total Dissolved Solids (mg/L)**



Point Loma Wastewater Treatment Plant

2007 Total Dissolved Solids (mg/L)

Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1780	1720	1720	1570	1540	1470	1530	1510	1570	1550	1620	1730	1820	1670	1670	1490	1550	1580	1600	1590	1550	1260	1250	
2	1630	1630	1520	1580	1490	1470	1570	1560	1570	1530	1710	1800	1740	1630	1610	1530	1500	1520	1510	1470	1460	1360	1340	
3	1630	1630	1630	1680	1580	1600	1510	1490	1630	1580	1610	1690	1730	1640	1610	1640	1580	1470	1470	1480	1480	1450	1410	
4	1570	1590	1640	1610	1530	1480	1510	1500	1670	1670	1620	1600	1630	1600	1560	1550	1580	1510	1520	1530	1540	1480	1450	
5	1580	1530	1700	1660	1550	1580	1540	1460	1600	1600	1670	1580	1650	1650	1630	1640	1650	1510	1490	1500	1460	1550	1510	
6	1540	1510	1570	1590	1530	1600	1560	1570	1710	1620	1700	1590	1600	1700	1710	1580	1600	1410	1430	1540	1500	1490	1530	
7	1500	1470	1600	1600	1550	1540	1550	1520	1640	1650	1600	1580	1530	1640	1680	1560	1650	1510	1410	1530	1540	1420	1450	
8	1490	1420	1590	1600	1510	1510	1840	1500	1720	1720	1560	1570	1580	1700	1720	1520	1570	1470	1570	1480	1500	1390	1380	
9	1510	1580	1610	1650	1520	1530	1680	1530	1670	1700	1600	1640	1570	1570	1660	1580	1530	1490	1510	1470	1480	1290	1300	
10	1530	1530	1570	1590	1600	1570	1480	1490	1610	1560	1590	1610	1660	1670	1670	1660	1620	1610	1500	1430	1450	1460	1440	
11	1700	1480	1560	1550	1530	1460	1540	1530	1620	1600	1620	1610	1700	1660	1720	1660	1720	1610	1490	1380	1430	1520	1530	
12	1520	1480	1600	1580	1490	1480	1510	1520	1540	1500	1660	1710	1700	1600	1620	1600	1620	1620	1470	1580	1560	1470	1470	
13	1530	1580	1670	1670	1520	1520	1540	1490	1540	1520	1720	1730	1670	1670	1620	1620	1610	1590	1400	1400	1480	1530	1530	
14	1380	1410	1650	1630	1520	1560	1600	1580	1540	1530	1810	1720	1620	1600	1770	1750	1770	1600	1430	1530	1400	1530	1560	
15	1560	1480	1650	1620	1650	1630	1590	1530	1640	1630	1750	1740	1660	1700	1680	1700	1680	1430	1450	1500	1480	1470	1480	
16	1540	1510	1590	1640	1580	1474	1520	1560	1690	1640	1720	1730	1700	1620	1710	1680	1670	1570	1480	1460	1470	1530	1490	
17	1610	1650	1600	1540	1620	1600	1600	1610	1680	1660	1620	1640	1680	1680	1670	1570	1520	1500	1420	1450	1380	1520	1500	
18	1540	1550	1530	1600	1600	1600	1600	1630	1760	1700	1740	1700	1620	1560	1610	1590	1520	1370	1350	1490	1460	1590	1520	
19	1640	1580	1400	1420	1550	1540	1620	1620	1610	1610	1750	1650	1630	1650	1600	1500	1520	1450	1480	1480	1480	1680	1650	
20	1630	1630	1440	1430	1520	1580	1610	1590	1620	1700	1700	1620	1640	1610	1590	1520	1560	1370	1350	1490	1460	1590	1520	
21	1600	1580	1490	1510	1540	1530	1450	1460	1610	1600	1467	1620	1650	1710	1630	1550	1520	1500	1480	1480	1680	1650	1650	
22	1600	1580	1570	1540	1510	1490	1510	1520	1580	1580	1660	1610	1590	1630	1650	1470	1440	1540	1520	1450	1450	1620	1630	
23	1500	1510	1450	1460	1610	1590	1590	1570	1560	1550	1570	1580	1680	1730	1670	1690	1590	1520	1450	1460	1610	1580	1670	1640
24	1580	1610	1490	1460	1510	1540	1570	1550	1620	1630	1570	1620	1690	1700	1710	1650	1560	1550	1560	1520	1510	1700	1670	
25	1440	1470	1520	1510	1560	1530	1600	1580	1580	1600	1690	1620	1680	1620	1600	1610	1620	1600	1580	1540	1500	1740	1700	
26	1540	1580	1540	1490	1490	1480	1580	1560	1520	1560	1660	1650	1540	1710	1610	1620	1590	1580	1580	1500	1500	1710	1680	
27	1560	1600	1580	1550	1470	1440	1570	1560	1530	1510	1710	1670	1660	1690	1670	1670	1700	1670	1500	1570	1540	1690	1690	
28	1590	1550	1460	1450	1520	1510	1640	1630	1740	1650	1680	1600	1580	1750	1710	1690	1660	1480	1470	1500	1540	1620	1600	
29	1600	1570			1530	1510	1610	1660	1650	1620	1730	1610	1530	1670	1670	1590	1660	1550	1530	1470	1450	1630	1590	
30	1670	1600			1480	1460	1580	1580	1630	1610	1740	1650	1660	1630	1650	1560	1560	1520	1520	1320	1340	1590	1560	
31	1500	1480			1550	1520			1560	1590		1680	1660	1660	1660			1500	1510			1510	1500	
Avg	1567	1551	1569	1564	1540	1529	1574	1548	1620	1605	1664	1667	1640	1646	1663	1654	1575	1569	1497	1491	1489	1475	1533	1519
Min	1380	1410	1400	1420	1470	1440	1450	1460	1520	1500	1474	1467	1550	1530	1560	1560	1430	1440	1370	1350	1320	1340	1260	1250
Max	1780	1720	1720	1680	1650	1630	1840	1660	1760	1720	1810	1750	1800	1820	1770	1750	1690	1700	1600	1600	1610	1580	1740	1700

Bold = Batch or sample did not meet QC requirements on these dates, used median TDS values from 2006 instead of result value.

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F. Toxicity Bioassays

Toxicity Testing: Point Loma Wastewater Treatment Plant Effluent, 2007

INTRODUCTION

The City of San Diego conducts aquatic toxicity tests as required by its National Pollutant Discharge Elimination System permit (NPDES Permit No. CA0107409 and Order No.R9-2002-0025). The permit was adopted by the San Diego Regional Water Quality Control Board on April 10, 2002. The testing requirement is designed to determine the acute and chronic toxicity of effluent samples collected from the Point Loma Wastewater Treatment Plant (PLWTP). This chapter presents summaries and discussion of the toxicity tests conducted in 2007.

Toxicity testing of wastewater effluent measures the bioavailability of toxicants in a complex mixture, accounts for interactions among potential toxicants, and integrates the effects of all constituents. Acute and chronic toxicity tests are characterized by the duration of exposure to a toxicant as well as the adverse effect (measured response) produced as the result of exposure to a toxicant. Acute toxicity testing consists of a short-term exposure period, usually 96 hours or less, and the acute effect refers to mortality of the test organism. The City of San Diego is required to conduct acute toxicity tests.

Chronic toxicity testing, in the classic sense, refers to long-term exposure of the test organism to a potential toxicant. This may involve exposing the test organism for its entire reproductive life cycle, which may exceed 12 months for organisms such as fish. In general, chronic tests are inherently more sensitive to toxicants than acute tests in that adverse effects are detected at lower toxicant concentrations. The City of San Diego is required to conduct critical/early life stage chronic tests that are intermediate between the acute and chronic toxicity testing protocols discussed above. These test results serve as short-term estimates of chronic toxicity.

MATERIALS & METHODS

Test Material

Twenty-four hour, flow-weighted, composite effluent samples were collected at the PLWTP and stored at 4° C until test initiation. All tests were initiated within 36 hours of sample collection. The acute toxicity test concentrations were 3.87, 7.75, 15.5, 31.0, and 62% (nominal) for the mysid tests. Unimpacted receiving water was used as dilution water in accordance with the NPDES permit. Receiving water was collected at City of San Diego monitoring station B8 and used within 96 hours of collection. The receiving water samples were collected from a depth of 2 m and stored at 4 °C until test initiation. The station coordinates are as follows:

Collection Location	Latitude/Longitude	Depth (m)
B-8	32° 45.50' N, 117° 20.77' W	88.4

Chronic toxicity test concentrations consisted of 0.15, 0.27, 0.49, 0.88, and 1.56% effluent. Dilution water for the chronic effluent tests was collected in the same manner as in the acute toxicity tests.

Dilution water for the acute and chronic reference toxicant tests was obtained from the Scripps Institution of Oceanography (SIO), filtered, held at 4 °C, and used within 96 hours of collection. Detailed methodology for all toxicity testing is described in the City of San Diego Bioassay Laboratory Quality Assurance Manual (City of San Diego 2000).

Acute Bioassays

Mysid Survival Bioassay

Acute bioassays using the mysid, *Mysidopsis bahia*, were conducted in March and September 2007 in accordance with USEPA protocol EPA/600/4-90/027F (USEPA 1993). Larval mysids (4-5 days old) were purchased from Aquatic Bio Systems (Fort Collins, CO), and acclimated to test temperature and salinity for at least 24 hours. Upon test initiation, the mysids (10 per replicate) were exposed for 96 hours in a static-renewal system to the effluent exposure series. Receiving water and brine controls were also tested. The test solutions were renewed at 48 hours and the organisms were fed once daily.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. Test concentrations consisted of 56, 100, 180, 320, and 560 µg/L copper. A SIO seawater control was also tested. At the end of the exposure period, percent survival was recorded. Tests were declared valid if control mortality did not exceed 10%. The data were analyzed using a multiple comparison procedure and point estimation method prescribed by USEPA (1993). ToxCalc software (Tidepool Scientific Software 2002) was used for all statistical analyses.

Chronic Bioassays

Kelp Germination and Growth Test

Chronic bioassays using the giant kelp, *Macrocystis pyrifera*, were conducted each month during 2007 in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995). Kelp zoospores were obtained from the reproductive blades (sporophylls) of adult *Macrocystis* plants, which were collected from the kelp beds near La Jolla, California one day prior to test initiation. The zoospores were exposed in a static system for 48 hours to effluent exposure series. A receiving water control was also tested.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. The concentrations of copper in the exposure series were 5.6, 10, 18, 32, 56, 100, and 180 µg/L. A SIO seawater control was also tested. At the end of the exposure period, 100 zoospores from each

replicate were examined and the percent germination was recorded. In addition, germ-tube length was measured and recorded for 10 of the germinated zoospores.

The data were analyzed in accordance with “Flowchart for statistical analysis of giant kelp, *Macrocystis pyrifera*, germination data” and “Flowchart for statistical analysis of giant kelp, *Macrocystis pyrifera*, growth data” (see USEPA 1995). ToxCalc software (Tidepool Scientific Software 2002) was used for all statistical analyses.

Red Abalone Development Bioassay

Chronic bioassays using the red abalone, *Haliotis rufescens*, were conducted each month during 2007 in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995). Test organisms were purchased from Cultured Abalone (Goleta, California), and shipped via overnight delivery to the City’s Toxicology Laboratory. Mature male and female abalone were placed in separate natural seawater tanks and held at 15 °C. For each test event, spawning was induced in 6-8 abalones in gender-specific vessels. Eggs and sperm were retained and examined under magnification to ensure good quality. Once deemed acceptable, the sperm stock was used to fertilize the eggs, and a specific quantity of fertilized embryos was added to each test replicate and exposed to the effluent series for 48 hours. A receiving water control was also tested. At the end of the test period, 100 embryos were examined and the number of normally and abnormally developed embryos was recorded.

Simultaneous reference toxicant testing was performed using reagent grade zinc sulfate. The concentrations of zinc in the exposure series were 10, 18, 32, 56, and 100 µg/L. A SIO seawater control was also tested.

The percentage of normally developed embryos for each replicate was arcsine square root transformed. The data were analyzed in accordance with “Flowchart for statistical analysis of red abalone *Haliotis rufescens*, development data” (see USEPA 1995). ToxCalc software (Tidepool Scientific Software 2002) was used for all statistical analyses.

Topsmelt Survival and Growth Bioassays

Chronic bioassays using the topsmelt (*Atherinops affinis*) were conducted in accordance with EPA/600/R-95/136 (USEPA 1995). Larval topsmelt (9-14 days old) were purchased from a commercial vendor and exposed for seven days in a static-renewal system to 0.15, 0.27, 0.49, 0.88, and 1.56% effluent. The test endpoints are survival and growth (dry biomass). The results are expressed as the NOEC.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. The concentrations of copper in the exposure series were 32, 56, 100, 180, and 320 µg/L. A reference toxicant control consisting of SIO dilution water was also tested. Upon conclusion of the exposure period, percent survival and dry biomass were recorded.

The data were analyzed using ToxCalc (Tidepool Scientific Software, 2002) in accordance with the appropriate USEPA flowcharts for statistical analysis of topsmelt survival and growth test data by hypothesis testing and point estimation (USEPA 1995; pp.105-106).

RESULTS & DISCUSSION

Acute Bioassays

In accordance with Order No. R9-2002-0025, the City conducted side-by-side acute screening studies to compare the sensitivity of the topsmelt and the mysid to PLWTP effluent. Based on the findings from these three events, two of which were reported in 2007, the City elected to use the mysid, which exhibited greater sensitivity than the topsmelt, for all subsequent acute toxicity testing.

In 2007, all acute toxicity tests were conducted using the mysid, and all tests met the acceptability criterion of >90% control survival and all tests demonstrated compliance with permit standards (Table T.1).

Chronic Bioassays

Sensitivity of the chronic test species (giant kelp, red abalone, and topsmelt) was verified in July 2007 during a biennial screening event, and the results were consistent with previous findings. The City conducted chronic toxicity tests with both kelp and abalone for the remainder of 2007, since the giant kelp has been the most sensitive species historically, and the red abalone remains ecologically important to the region.

The results from all 2007 chronic bioassays are summarized in Table T.2. All tests met the acceptability criteria and were within compliance limits.

LITERATURE CITED

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TABLE T.1

Results and compliance summary of acute bioassays conducted during 2007. Data are presented in toxic unit acute (TUa) values. The 2001 California Ocean Plan compliance limit is 6.5 TUa.

Sample Date	Mysid 96-Hour Bioassay
	96-hr Static-Renewal
03/18/2007	2.6
09/16/2007	<1.6
N	2
No. in compliance	2
Mean TUa	<2.1

TABLE T.2

Results of chronic toxicity testing of Point Loma Wastewater Treatment Plant effluent from January through December 2007. Data are presented in toxic unit chronic (TUc) values. NPDES permit limit is 205 TUc.

Sample Date	Giant Kelp		Red Abalone	Topsmelt	
	Germination	Growth	Development	Survival	Growth
1/16/2007	64	64	64	-	-
2/5/2007	64	64	-	-	-
2/14/2007	-	-	64	-	-
3/12/2007	64	64	64	-	-
4/10/2007	64	64	64	-	-
5/15/2007	64	64	64	-	-
6/4/2007	64	64	64	-	-
7/10/2007	64	114	64	64	64
8/7/2007	-	-	114	-	-
8/13/2007	64	64	-	-	-
9/11/2007	64	64	64	-	-
10/15/2007	64	64	204	-	-
11/13/2007	64	64	64	-	-
12/10/2007	64	64	64	-	-
N	12	12	12	1	1
No. in compliance	12	12	12	1	1
Mean TUc	64	68	80	64	64

G. 6-Year Tables.

ARSENIC (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.88	0.65	1.4	0.89	1.1	0.62	1.6	1.54	1.2	1.14	1.74	0.98	2.31	1.89	1.23	1.17	1.73	1.72	1.86	1.52	1.87	1.56	1.29	0.91
2	1.33	0.84	1.72	0.92	1.16	0.9	0.99	0.57	1.83	1.34	1.53	0.9	2.96	2.34	2.76	2.25	2.18	1.95	1.06	0.74	1.88	1.58	2.73	2.36
3	1.21	1.09	1.05	0.65	0.61	0.69	1.57	1.59	2.34	1.56	2.84	2.74	2.65	1.74	2.13	1.14	1.87	1.55	1.86	1.74	1.12	0.75	1.53	1.02
4	1.38	1.38	1.13	0.72	0.82	1.14	0.66	1.14	0.66	1.42	1.06	1.63	1.46	2.81	1.2	0.81	1.2	0.81	2.33	2.41	1.3	1.52	1.52	0.76
Avg	1.14	0.86	1.39	0.9	0.9	0.76	1.33	1.09	1.79	1.35	1.89	1.42	2.44	1.86	2.23	1.61	1.75	1.51	1.78	1.6	1.62	1.3	1.77	1.26

ARSENIC (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1	0.75	1.3	0.69	1.37	0.86	1.04	0.55	2.49	2.44	2.03	1.32	0.72	<0.40	1.87	1.84	1.56	1.72	1.13	0.86	1.06	0.62	1.84	2.1
2	1.89	1.27	2.12	1.3	3.06	0.7	2.26	2.07	1.99	1.37	1.91	1.38	0.86	0.76	1.66	1.86	1.22	1.01	1.55	0.98	2.77	2.06	0.92	0.72
3	1	0.48	1.79	1.53	1.6	0.93	2.78	2.98	2.16	0.88	1.84	1.2	0.97	0.59	1.47	1.11	2.13	1.68	1.48	1.22	1.36	1.11	1.57	1.7
4	1.77	1.1	1.99	1.03	1.6	0.83	1.83	1.35	1.76	1.34	1.76	1.34	1.28	1.24	0.76	1.44	2.19	2.1	0.88	2.19	0.67	1.97	1.93	
Avg	1.42	0.9	1.8	1.14	2.01	0.83	1.95	1.56	2.32	1.83	1.67	1.17	0.96	0.65	1.44	1.53	1.87	1.62	1.64	1.36	1.48	1.12	1.58	1.61

ARSENIC (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.05	0.84	1.2	0.68	1.42	0.84	1.45	1.38	1.93	2.36	1.09	1.11	1.4	1.04	0.83	<0.40	2.24	1.06	1.32	0.86	1.56	0.91	2.18	1.25
2	2.13	1.32	1.2	0.88	2.15	1.44	1.07	0.51	1.1	1.45	1.9	1.28	0.99	0.63	0.62	NA	1.7	1.42	1.31	1.27	1.09	0.68	1.59	1.28
3	2.05	1.88	0.77	ND	2.16	1.89	1.83	1.32	1.41	0.88	1.84	1.2	1.38	1.02	0.69	2.73	1.76	1.36	1.76	1.26	2.56	2.07	0.87	1.57
4	2.3	1.7	2.57	1.29	0.99	0.46	1.49	0.9	1.25	1.37	2.06	1.22	1.26	0.89	1.64	1.24	1.17	1.17	3.68	1.82	0.96	0.72	1.92	0.88
Avg	1.88	1.44	1.51	0.66	1.68	1.16	1.46	1.03	1.42	1.52	1.72	1.2	1.22	0.85	1.21	0.87	1.56	1.09	2.26	1.43	1.24	0.83	1.85	1.25

ARSENIC (ug/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	2.01	1.27	1.9	1.35	2.25	1.34	1.9	1.13	1.91	1.31	1.43	0.91	1.58	1.22	1.3	0.88	1.87	1.37	1.44	0.74	2.4	1.58	1.15	0.51
2	3.22	1.88	1.53	0.67	1.78	1.26	2.1	1.37	2.79	1.79	1.04	0.68	1.29	0.74	1.03	1.6	1.1	0.51	1.68	0.53	3.41	1.83	1.07	0.47
3	1.58	0.89	1.88	0.94	1.32	0.87	2.12	0.99	1.06	0.49	1.63	1.36	1.75	1.61	1.06	0.53	1.82	1.25	1.87	1.26	2.56	2.07	0.87	ND
4	1.23	1.04	2.85	1.46	1.96	1.83	1.26	0.66	1.89	1.66	1.11	0.45	1.99	1.82	0.97	0.74	2.89	2.38	1.13	0.66	1.22	0.83	1	0.43
Avg	2.01	1.27	1.9	1.35	2.25	1.34	1.9	1.13	1.91	1.31	1.43	0.91	1.58	1.22	1.3	0.88	1.87	1.37	1.44	0.74	2.4	1.58	1.15	0.51

ARSENIC (ug/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.61	0.70	1.08	0.66	1.22	0.45	0.95	0.46	1.24	ND	1.07	ND	0.73	0.67	1.17	0.76	1.04	0.56	1.08	0.49	1.44	0.77	0.85	<40
2	1.13	0.63	1.00	0.65	1.03	0.4	1.67	0.61	0.82	0.44	0.91	0.46	1.23	0.59	0.84	0.56	1.10	0.51	1.07	0.50	1.23	0.65	0.87	ND
3	1.12	0.53	1.15	0.55	0.61	ND	0.6	0.83	0.5	0.99	0.91	0.57	0.99	0.65	0.95	0.72	1.00	0.51	1.34	<0.40	1.13	0.72	0.89	0.41
4	1.12	0.57	1.91	0.88	0.84	0.69	1.12	0.69	1.12	0.59	0.82	0.5	0.76	0.62	0.96	0.63	1.22	0.53	1.22	0.65	1.18	0.62	0.91	0.43
Avg	1.25	0.61	1.29	0.69	0.95	0.28	1.16	0.59	1.00	0.51	0.93	0.38	0.93	0.63	0.98	0.68	1.05	0.53	1.18	0.41	1.25	0.69	0.88	0.21

ARSENIC (ug/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.21	0.51	0.89	ND	1.32	0.70	1.18	0.73	0.92	0.55	1.39	0.95	1.09	0.69	1.00	ND	1.44	0.89	1.51	0.73	0.90	0.58	1.29	0.86
2	1.15	0.68	0.83	0.48	1.03	0.73	1.12	0.71	1.15	1.20	1.03	0.81	1.03	0.74	1.23	0.6	1.00	0.57	1.16	0.67	0.96	0.55	1.29	0.86
3	0.72	0.56	1.34	0.78	1.18	0.66	0.92	0.68	1.28	1.00	1.18	0.86	0.95	0.67	1.25	ND	1.05	0.53	1.10	0.79	0.81	0.56	1.00	0.73
4	1.58	0.52	1.25	0.7	1.08	0.7	1.08	0.71	1.35	0.96	1.14	1.14	1.14	0.67	1.30	ND	1.28	0.72	0.93	0.64	1.26	0.71	1.23	0.66
Avg	1.17	0.57	1.02	0.63	1.20	0.70	1.08	0.71	1.18	0.93	1.20	0.87	1.03	0.69	1.20	0.20	1.19	0.68	1.18	0.71	0.98	0.60	1.17	0.75

CADMIUM (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.3	<1.0	<1.0	<1.0	2.5	<1.0	2.1	<1.0	<1.0	<1.0	1.3	1.6	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0
2	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	3.8	<1.0	<1.0	<1.0	<1.0	1.4	1.6	<1.0	<1.0
3	1	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	1.5	2.4	<1.0	<1.0	<1.0	<1.0	1.2	1.8	1.7	<1.0
4	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	3.4	<1.0	4.5	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0
Average	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	0.6	<1.0	1.6	<1.0	<1.0	2.7	<1.0	<1.0	<1.0	<1.0	1.1	1.1	<1.0	<1.0

CADMIUM (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	<5.0	17.3	ND	8.1	ND	6.1	ND	10	<5.0	<5.0	<5.0	ND	11.8	7.5	ND	ND	ND	8.1	5.7	ND	ND	ND	ND
2	<5.0	ND	6.1	ND	6.5	ND	6.9	ND	<5.0	ND	<5.0	<5.0	6	<5.0	10.5	<5.0	ND	ND	5.2	ND	6.7	ND	14.2	ND
3	20.1	ND	7.9	ND	6.8	ND	ND	<5.0	5.9	ND	8.7	ND	11.5	13.6	<5.0	<5.0	ND	ND	ND	ND	5.8	9.6	9.5	ND
4	9.2	ND	<5.0	ND	ND	ND	20.7	ND	8.2	ND	<5.0	ND	9.5	<5.0	13.4	<5.0	ND	ND	ND	ND	ND	8.9	<5.0	<5.0
Avg	7.3	0	7.8	ND	7.1	ND	8.4	0	6	ND	2.2	0	6.8	3.4	8.9	1.9	ND	ND	3.3	1.4	3.1	2.4	8.2	0

CADMIUM (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	10.4	ND	ND	ND	ND	ND	5.5	ND	ND	ND	5.8	2	16.4	2.7	7.5	4.3	5.6	2	5.7	1.4	6.5	0.9	5.6	2.1
2	ND	ND	7.1	ND	7.2	ND	13.8	ND	19.1	ND	12	1.7	7.9	1.9	17.5	20.6	4.5	4.3	9.2	2.5	6.1	1.8	7.8	1.7
3	ND	ND	10.3	ND	6.3	ND	16.5	ND	ND	ND	10	1.4	6.4	6.4	17.1	17.1	5.6	1.6	14.4	4.5	6.1	1.7	6	1.6
4	8.4	ND	6.2	<5.0	ND	ND	8.9	ND	ND	11.7	5.5	1.5	6.1	6.1	22.2	2.6	4.5	1.7	5.5	1.8	4.9	1.6	4.5	1
Avg	4.6	ND	7.9	0	3.4	ND	8.9	ND	4.8	2.9	8.3	1.7	10.1	3.6	13.4	11.2	5.1	2.4	8.7	2.6	5.9	1.5	6	1.6

CADMIUM (ug/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.3	ND	0.3	ND	0.5	ND	0.2	ND	0.4	ND	0.6	0.6	0.3	ND	0.7	0.4	ND	ND	0.6	ND	0.6	ND	ND	ND
2	0.3	0.2	ND	0.5	0.3	ND	ND	ND	0.4	ND	0.6	0.8	0.4	ND	0.4	<0.2	0.6	ND	0.3	ND	ND	ND	ND	ND
3	ND	0.4	1.3	ND	0.5	0.2	ND	ND	0.3	ND	1.1	0.6	0.3	ND	0.4	0.4	ND	0.4	ND	0.3	ND	0.6	ND	ND
4	ND	ND	0.9	0.69	0.5	0.4	ND	ND	0.5	0.2	0.7	0.5	0.3	ND	0.3	ND	0.5	ND	ND	ND	0.7	0.6	ND	ND
Average	0.1	0.2	0.6	0.4	0.3	ND	0.2	ND	0.4	0.1	0.9	0.6	0.3	ND	0.5	0.1	0.4	ND	0.3	ND	0.4	0.2	ND	ND

CADMIUM (ug/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	0.2	ND	0.6	0.4	ND	ND	0.2	ND	0.5	ND	0.3	0.7	0.3	0.3	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	0.2	<0.2	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	0.4	0.2	ND	ND	0.2	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	0.5	0.3	0.3	0.4	ND	ND	ND	ND	ND	ND	ND	ND
4	0.5	ND	ND	ND	0.2	ND	0.2	ND	0.45	ND	0.3	ND	0.2	ND	0.2	0.9	0.9	0.2	ND	0.3	ND	ND	ND	ND
Average	0.1	ND	ND	ND	0.1	0.1	0.2	0.1	0.11	ND	0.2	0.4	0.1	0.1	0.2	0.4	0.4	0.2	0.4	0.1	0.1	0.1	ND	ND

CADMIUM (ug/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	1.4	0.6	ND	ND	ND	<0.5	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	38.3	ND	ND	ND	ND	ND	2.6	1.7	ND	ND	0.6	ND	0.6	ND	ND	ND	ND	ND	ND	ND
3	0.6	ND	0.7	<0.5	ND	ND	0.7	ND	ND	ND	0.7	ND	ND	ND	ND	0.6	0.6	ND	ND	ND	ND	ND	ND	ND
4	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	1.0	0.3	0.2	0.2	0.2	<0.2	0.2	0.3	0.2	0.2	0.2	ND	ND
Average	0.3	ND	0.2	<0.0	9.6	ND	0.2	ND	ND	ND	1.8	1.0	0.3	0.2	0.2	0.2	<0.2	0.2	0.3	0.2	0.2	0.2	ND	ND

CHROMIUM (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	6.3	<5	<5	<5	6.8	<5	<5	<5	<5	<5	9.1	<5	<5	<5	<5	<5	<5	<5	<5	<5	9.3	<5	8.3	<5
2	8.3	<5	<5	<5	7.4	<5	<5	<5	<5	<5	7.8	<5	8.9	7.2	8	<5	<5	<5	<5	<5	6.5	<5	7.2	<5
3	5.4	<5	<5	<5	7.1	<5	8.8	<5	13.7	<5	6.7	<5	6.8	<5	11.4	<5	<5	<5	<5	<5	<5	<5	6.1	<5
4		<5	6	<5	<5	<5	<5	<5	<5	6.7	<5	<5	<5	<5	11.4	<5	<5	<5	<5	<5	<5	<5	<5	<5
Average	6.7	<5	<5	<5	<5	<5	<5	<5	<5	9.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5.3	<5	5.4	<5

CHROMIUM (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	<5.0	17.3	ND	8.1	ND	6.1	ND	10	<5	<5.0	<5.0	ND	11.8	7.5	ND	ND	ND	8.1	5.7	ND	ND	ND	ND
2	<5.0	ND	6.1	ND	6.5	ND	6.9	ND	<5.0	<5.0	6	<5.0	10.5	5.2	ND	ND	ND	ND	6.7	10.2	6.7	ND	14.2	ND
3	20.1	ND	7.9	ND	6.8	ND	ND	<5.0	5.9	ND	8.7	ND	11.5	13.6	<5.0	ND	ND	ND	5.8	ND	5.8	9.6	9.5	ND
4	9.2	ND	<5.0	ND	20.7	ND	20.7	ND	8.2	ND	<5.0	ND	9.5	<5.0	13.4	<5.0	ND	ND	ND	ND	ND	ND	8.9	<5.0
Avg	7.3	0	7.8	ND	7.1	ND	8.4	0	6	ND	2.2	0	6.8	3.4	8.9	1.9	ND	ND	3.3	1.4	3.1	2.4	8.2	0

CHROMIUM (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	10.4	ND	ND	ND	5.5	ND	5.5	ND	ND	ND	5.8	2	16.4	2.7	7.5	4.3	5.6	2	5.7	1.4	6.5	0.9	5.6	2.1
2	ND	ND	7.1	ND	7.2	ND	13.8	ND	19.1	ND	12	1.7	7.9	1.9	17.5	20.6	4.5	4.3	9.2	2.5	6.1	1.8	7.8	1.7
3	ND	ND	10.3	ND	6.3	ND	16.5	ND	ND	ND	10	1.4	6.4	6.4	17.1	14.4	5.6	1.6	14.4	4.5	6.1	1.7	6	1.6
4	8.4	ND	6.2	<5.0	ND	ND	ND	ND	11.7	ND	5.5	1.5	6.1	6.1	22.2	2.6	4.5	1.7	5.5	1.8	4.9	1.6	4.5	1
Avg	4.6	ND	7.9	0	3.4	ND	8.9	ND	4.8	2.9	8.3	1.7	10.1	3.6	13.4	11.2	5.1	2.4	8.7	2.6	5.9	1.5	6	1.6

CHROMIUM (ug/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	27.3	3.8	4.4	1.1	4.5	1.2	3.9	0.6	7.3	0.2	4.7	1.6	4.2	1.2	5.5	1.9	9.7	6.2	10.3	0.4	10.3	1.2	7.3	ND
2	4.7	1.8	7.6	2.1	3.6	2.6	7	1.3	5.8	2.2	5.4	5.6	3.9	1.2	4.5	1.2	8.6	1.6	4.8	0.2	11.6	1.9	3.9	ND
3	3.2	0.2	6.5	1.2	4.4	1	5.1	2.9	3.7	1.7	5.6	5.6	2.6	1.9	5.4	1.1	3.4	1.3	4.5	ND	4.8	5.6	2.9	0.3
4	4.5	1.3	3.6	2.9	4.7	1.9	5.1	2.1	7.2	6.8	6.6	3.9	5.3	2.1	3.4	0.4	4.2	1.1	4	ND	3.4	1.3	5.1	0.6
Average	4.1	1.1	5.7	2.1	4.1	1.9	5.6	7.4	5.6	3.6	5.7	4.8	4.1	1.3	4.5	1.2	5.4	1.6	4.4	0.1	6.6	2.9	3.9	0.5

CHROMIUM (ug/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	27.3	3.8	4.4	1.1	4.5	1.2	3.9	0.6	7.3	0.2	4.7	1.6	4.2	1.2	5.5	1.9	9.7	6.2	10.3	0.4	10.3	1.2	7.3	ND
2	4.6	1.3	4.2	1.4	4	0.4	181.0	0.7	6.3	0.7	10.6	1.6	13.1	1.1	5.9	2.0	11.5	3.1	8.6	7.6	13.1	2.1	4	ND
3	8.7	1.2	4.5	3.4	2.2	0.6	4.2	1.1	4.7	1.6	6.2	0.8	5.3	2.1	14.7	3.6	9	3.4	6.8	1.1	5.4	1.8	6.2	ND
4	5.7	2.6	4.3	2.0	4.3	2.0	6.1	2.2	10.8	1.5	10.9	4	7.9	0.9	7.3	1.5	16	4.2	16	2.3	6.6	2.9	5.4	ND
Average	11.6	2.2	4.4	2.0	3.6	0.7	48.8	1.2	7.3	1.0	8.1	2.0	7.6	1.3	8.4	2.3	10.1	4.2	10.3	2.9	8.9	2.0	5.7	ND

CHROMIUM (ug/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	8	ND	6.0	3.0	6.6	ND	12.5	2.1	6.6	ND	10.9	ND	6.6	ND	5.0	1.4	7.2	16.5	6.6	ND	7.3	1.4	12.6	1.9
2	7.4	ND	4.2	1.8	5.8	1.8	7.7	<1.2	5.1	ND	7.3	ND	11.2	ND	5.7	ND	7.2	ND	10.6	2.2	11.6	1.5	4.7	ND
3	7.7	ND	7.1	2.1	10.3	2.1	9.0	1.2	6.8	2.0	5.8	ND	9.4	ND	13.5	1.5	7.6	ND	5.2	1.3	4.7	ND	8.1	2.4
4	10.9	ND	7.9	1.9	9.6	1.9	7.9	1.5	7.5	ND	9.1	ND	7.5	ND	8.1	2.7	7.2	ND	5.7	1.3	8.6	1.7	7.2	3.0
Average	8.5	ND	5.8	2.3	8.1	1.5	9.3	1.6	6.5	0.5	8.0	ND	8.7	ND	8.1	1.4	7.8	4.1	7.0	0.9	8.1	1.2	9.3	2.4

COPPER (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	140	49	126	42	256	185	156	59	130	39	107	174	115	120	39	117	44	202	51	202	38	159	60	60
2	194	49	223	72	243	45	161	46	190	101	76	252	67	144	65	156	219	179	89	199	134	159	89	89
3	246	83	140	154	144	122	135	45	104	92	119	231	29	197	75	119	76	143	78	153	77	143	45	45
4			140	100	129	63	141	91			147	120	82	199	94	92	73	206	49			105	20	20
Average	193	60	157	92	195	104	148	60	141	77	86	192	73	165	68	121	103	164	67	185	83	142	54	54

COPPER (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	111	18	129	16	175	36	186	42	120	44	125	101	313	139	76	244	237	85	54	145	325	107	88	88
2	146	42	106	81	167	43	149	77	132	43	172	48	138	218	64	138	81	94	182	161	46	183	237	237
3	107	52	146	33	156	87	130	69	125	61	159	36	291	131	74	115	170	78	51	198	69	372	79	79
4	98	28	126	35			161	60	162	49	160	57	188	156	71	127	21	206	21	150	60	107	54	54
Avg	116	35	127	41	166	55	157	62	135	49	154	61	233	161	71	166	163	96	77	164	125	192	115	115

COPPER (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	144	49	121	40	158	47	107	86	107	86	95	54	105	93	29	100	43	113	22	116	51	115	27	27
2	127	61	202	118	140	47	169	44	169	91	125	65	97	28	145	52	124	25	90	30	106	30	123	21
3	118	61	181	24	134	110	133	48	124	17	103	47	103	127	31	74	29	100	26	99	23	146	22	22
4	131	29	91	51	231	82	134	38	82	19	116	32	83	29	144	34	77	28	73	24	103	20	82	23
Avg	130	50	158	64	157	70	149	44	121	53	110	50	95	38	127	37	94	31	94	26	106	31	117	23

COPPER (ug/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	83	28	72	20	62	23	98	27	108	50	97	22	112	23	96	30	96	18	142	18	71	25	62	27
2	74	39	98	37	85	30	134	27	95	28	106	25	119	17	97	20	118	16	94	14	173	25	62	34
3	73	25	122	30	69	22	120	44	82	25	118	31	68	34	102	19	89	13	61	31	132	32	62	22
4	85	36	67	28	82	22	92	28	114	34	111	25	204	33	97	22	105	19	115	25	92	24	49	22
Average	77	33	93	42	75	24	111	32	97	29	111	33	122	27	101	21	102	20	103	22	133	27	61	26

COPPER (ug/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	115	28	49	20	66	19	64	22	169	19	104	26	117	24	95	18	108	17	112	14	109	15	84	ND
2	83	22	86	30	62	18	82	24	123	17	114	27	205	18	97	22	106	13	143	42	76	39	76	ND
3	72	19	47	20	60	11	71	23	104	19	89	20	101	26	100	24	73	29	57	8	67	12	79	ND
4	92	20	51	17	115	11	115	42	101	28	105	28	71	23	106	15	73	29	123	14	77	19	62	ND
Average	91	22	58	22	63	16	83	28	124	21	103	25	124	23	100	20	96	20	109	20	82	21	75.3	ND

COPPER (ug/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	92	15	52	26	79	14	104	15	79	9	139	15	106	14	96	48	85	18	117	18	90	11	11	11
2	80	14	32	16	87	16	93	15	89	8	100	12	118	33	112	10	96	16	97	14	94	18	75	11
3	60	15	47	13	94	14	92	12	97	9	102	11	135	27	84	51	120	10	76	7	68	21	87	12
4	99	14			99	10	99	17	91	9	112	65	112	65	102	11	117	8	93	6	91	11	79	17

LEAD (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	22	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
2	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
3	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	25	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
4	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18
Average	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18	<18

LEAD (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.5	ND	ND	ND	ND	ND	<18	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<18	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	<18	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.5	ND	ND	ND	ND	ND	<18	ND	ND	ND	ND	ND	ND	ND
Avg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.4	7.9	ND	ND	ND	0	0	ND	ND	ND	ND	ND	ND	4.5

LEAD (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9	ND	3.2	<1.4	4.5	ND	4	ND	4.2	<1.4	2.8	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.6	ND	4.7	ND	4.9	ND	2	ND	5.2	1.9	2.3	ND	ND	ND
3	ND	<18.0	ND	ND	ND	ND	ND	ND	ND	ND	5	1.9	ND	5.4	1.6	ND	2.3	ND	8.7	2	3	ND	3.3	ND
4	ND	ND	ND	ND	ND	ND	ND	18	ND	ND	6	ND	2.8	ND	6.3	ND	ND	ND	4.1	ND	2.9	ND	2	ND
Avg	6.3	0	ND	ND	ND	ND	4.5	ND	ND	ND	3.7	0.5	4.5	5	5	3	3	ND	5.5	1.95	3.1	0	2	ND

LEAD (ug/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	2.1	<1.4	5	ND	3.5	ND	1.8	ND	4.7	ND	4.2	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	4.3	ND	3.3	ND	3.4	ND	ND	1.6	ND	4	ND	2.6	ND	2.3	ND	3.1	ND
3	ND	ND	ND	ND	ND	ND	<1.4	2.9	ND	2.5	ND	2.8	ND	1.6	ND	3.9	ND	ND	ND	3.4	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	4.8	ND	3.3	ND	2.4	ND	2.4	ND	6.1	ND	ND	3.5	ND	5	ND	ND	ND
Average	ND	0.4	ND	ND	ND	ND	0	4	ND	2.8	0	3.4	ND	1.7	ND	4	4	ND	2.7	ND	3.6	ND	0.8	ND

LEAD (ug/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	3.6	2.6	2.5	ND	2.3	ND	3.1	ND	6	ND	2.3	ND	2.2	ND	5.8	0	4.9	ND	3.7	ND	4.9	ND	2.8	ND
2	3.5	ND	2.7	ND	3.5	ND	7.5	1.9	4.2	1.9	3.2	1.8	11.7	1.8	5.7	1.5	5.7	ND	2.2	ND	3.2	ND	ND	ND
3	1.7	ND	3.4	2.1	ND	ND	5.1	ND	4.3	ND	4.9	ND	10.9	5.3	5.8	3	3.7	ND	ND	ND	1.9	ND	2.4	ND
4	3.1	2.3	3.4	ND	5.8	ND	5.8	ND	3.8	ND	5.1	ND	4.1	ND	4.4	1.7	ND	ND	ND	ND	2.7	ND	ND	ND
Average	3.0	1.2	3.0	0.5	1.9	ND	5.4	0.5	4.6	0.5	3.9	0.5	7.2	1.8	5.4	1.6	4.8	ND	1.5	ND	3.2	ND	1.3	ND

LEAD (ug/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	4.6	ND	ND	ND	6.6	ND	3.1	ND	2.9	ND	2.9	ND	ND	ND	3.7	ND	ND	ND	3.8	ND	2.9	ND	ND	ND
2	ND	ND	ND	ND	5.8	ND	2.2	ND	2.2	ND	ND	ND	6.7	ND	ND	ND	ND	ND	2.7	ND	2.1	ND	ND	ND
3	ND	ND	ND	ND	5.3	ND	4.2	ND	ND	ND	ND	ND	2.9	ND	ND	ND	ND	ND	ND	ND	2.2	ND	ND	ND
4	5.6	ND	ND	ND	3.9	ND	2.5	ND	ND	ND	1	ND	2.2	ND	2.2	ND	2.5	ND	ND	ND	5.4	ND	ND	ND
Average	2.6	ND	ND	ND	5.4	ND	2.5	ND	2.2	ND	1.5	ND	2.4	ND	1.5	ND	2.5	ND	1.5	ND	3.2	ND	ND	ND

NICKEL (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
2	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
3	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
4	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
Average	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14

NICKEL (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<14	ND	<14	ND	ND	ND	ND	ND	ND	ND	<14	<14	18	ND	ND	ND	<14	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<14	<14	16	ND	ND	ND	<14	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	<14	ND	ND	ND	<14	ND	ND	ND	<14	<14	18	ND	ND	ND	<14	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	<14	ND	ND	ND	<14	ND	ND	ND	<14	<14	<14	<14	ND	ND	<14	ND	ND	ND	ND	ND	ND	ND
Avg	0	ND	0	ND	0	ND	0	ND	0	ND	0	0	9	5	ND	ND	0	ND	ND	ND	ND	ND	ND	ND

NICKEL (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	14	10	11	8	12	8	12	14	10	15	12	9	6
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	13	8	21	22	14	9	12	8	11	8	10	7	7
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	7	14	17	17	11	9	17	10	10	10	7	11	6
4	19	22	ND	ND	ND	ND	ND	ND	ND	ND	9	8	12	20	10	10	7	13	9	9	8	6	8	6
Avg	10	6	ND	ND	ND	ND	8	ND	ND	ND	12	13	9	17	14	12	8	14	9	11	11	8	10	6

NICKEL (ug/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	19	7	9	8	6	6	8	18	7	9	12	13	8	10	9	8	7	9	7	7	12	9	11	12
2	9	5	11	7	8	7	9	4	10	7	10	21	9	8	7	28	11	11	6	6	7	13	7	7
3	8	7	16	4	8	7	8	8	8	7	12	18	8	9	7	9	7	8	6	6	10	11	10	8
4	9	8	11	11	13	8	7	7	10	12	14	11	10	6	7	8	7	12	7	7	9	8	15	9
Average	9	8	11	9	7	7	8	9	9	9	12	16	9	8	8	13	8	10	7	7	12	9	12	9

NICKEL (ug/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	19	7	9	8	7	7	8	11	10	8	18	12	15	11	7	24	14	19	10	17	12	11	10	10
2	11	8	8	7	7	7	13	5	13	6	14	8	20	10	8	19	12	16	10	16	10	8	9	9
3	12	7	9	7	6	6	6	10	8	21	13	12	9	25	13	9	7	22	17	9	10	14	11	11
4	10	7	8	7	8	7	14	13	9	7	13	8	19	10	9	9	28	17	10	10	10	13	18	18
Average	13	7	9	7	7	7	11	8	11	7	17	10	17	10	9	17	11	21	14	13	10.5	12	12	12

NICKEL (ug/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	10	6	23	17	8	7	16	10	11	7	11	7	10	6	10	9	17	14	7	14	8	8	17	10
2	17	11	9	10	8	8	12	9	9	6	12	7	11	6	15	8	12	7	12	9	8	8	21	13
3	15	11	11	9	15	11	17	10	10	6	9	6	16	7	16	11	11	5	8	6	8	6	17	10
4	16	9	9	12	34	19	11	7	11	6	14	7	14	8	11	9	18	9	7	11	7	12	7	10
Average	15	9	14	12	17	11	14	9	10	6	11	7	13	7	13	9	15	9	11	7	12	7	17	10

MERCURY (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	0.2	0.14	0.24	<0.09
2	0.31	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	0.31	0.1	<0.09	<0.09
3	0.42	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	0.32	<0.09	0.2	<0.09
4		-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	0.09	0.09	0.09	<0.09
Average	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	0.28	<0.09	0.13	<0.09

MERCURY (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.25	ND	0.27	ND	0.51	ND	0.22	ND	ND	ND	0.23	ND	0.23	ND	0.22	ND	0.37	ND	ND	ND	0.12	ND	0.28	ND
2	0.13	ND	0.32	ND	0.11	ND	0.19	ND	0.64	0.2	0.16	ND	0.14	ND	0.25	ND	0.3	0.32	ND	0.31	ND	ND	ND	ND
3	ND	ND	0.42	ND	0.51	ND	0.22	<0.09	1.14	0.7	0.27	ND	0.17	ND	0.14	ND	1.24	ND	ND	0.42	ND	ND	ND	ND
4	0.11	ND	ND	ND	0.36	ND	0.36	ND	0.2	ND	ND	0.29	0.26	ND	ND	ND	ND	ND	ND	NA	NA	0.1	ND	ND
Avg	0.12	ND	0.25	ND	0.38	ND	0.25	0	0.5	0.23	0.17	0.17	0.07	0.07	0.15	ND	0.64	0.11	0.08	0.28	ND	0.1	0.1	ND

MERCURY (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	0.11	ND	0.38	ND	0.75	ND	0.23	ND	0.11	ND	0.22	ND	0.19	ND	0.11	ND	0.32	ND	0.41	ND	0.1	ND
2	0.26	ND	0.11	ND	0.77	ND	0.19	ND	0.13	ND	0.17	ND	0.26	ND	0.19	ND	0.14	ND	0.14	ND	0.34	ND	0.16	ND
3	0.54	ND	ND	ND	0.2	ND	0.11	ND	ND	ND	0.23	ND	0.24	ND	0.24	ND	0.14	ND	0.16	ND	ND	ND	0.15	ND
4	0.24	ND	0.39	ND	0.18	ND	0.21	ND	0.11	ND	0.13	ND	0.19	ND	0.22	ND	ND	ND	0.15	ND	0.21	ND	ND	ND
Avg	0.26	ND	0.17	ND	0.38	ND	0.32	ND	0.12	ND	0.16	0.16	0.22	ND	0.16	0.16	0.11	ND	0.19	0.24	ND	0.1	0.1	ND

MERCURY (ug/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.87	ND	0.62	ND	ND	ND	0.16	ND	0.27	ND	0.3	ND	0.11	ND	0.12	ND	ND	ND	1.03	ND	0.41	ND	0.15	ND
2	0.14	ND	0.11	ND	0.37	ND	0.19	ND	ND	ND	0.13	ND	0.22	ND	0.1	ND	0.22	ND	0.23	<0.09	0.23	ND	0.1	ND
3	0.19	ND	0.27	ND	0.11	ND	0.19	ND	0.1	ND	0.25	ND	0.28	ND	0.16	ND	0.39	ND	0.39	ND	0.11	ND	0.3	ND
4	ND	ND	0.1	ND	ND	ND	ND	ND	0.71	ND	0.13	ND	0.89	ND	ND	ND	0.15	ND	0.21	ND	ND	ND	ND	ND
Average	ND	ND	0.28	ND	0.03	ND	0.09	ND	0.27	ND	0.2	ND	0.25	ND	0.1	ND	0.09	ND	0.47	0	0.11	ND	0.14	ND

MERCURY (ug/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.87	ND	0.62	ND	ND	ND	0.16	ND	0.27	ND	0.3	ND	0.11	ND	0.12	ND	0.39	ND	1.03	ND	0.41	ND	0.15	ND
2	0.14	ND	0.11	ND	0.37	ND	0.19	ND	ND	ND	0.13	ND	0.22	ND	0.1	ND	0.22	ND	0.23	<0.09	0.23	ND	0.1	ND
3	0.19	ND	0.27	ND	0.11	ND	0.19	ND	0.1	ND	0.25	ND	0.28	ND	0.16	ND	0.39	ND	0.39	ND	0.11	ND	0.3	ND
4	ND	ND	0.1	ND	ND	ND	ND	ND	0.71	ND	0.13	ND	0.89	ND	ND	ND	0.15	ND	0.21	ND	ND	ND	ND	ND
Average	0.3	ND	0.12	ND	0.12	ND	0.12	ND	0.22	0.04	0.03	ND	0.16	ND	0.17	0	0.2	ND	0.30	ND	0.16	ND	0.43	ND

MERCURY (ug/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	0.13	ND	0.10	ND	0.27	ND	ND	ND	0.17	ND	0.11	ND	ND	ND	0.6	ND	0.12	ND	ND	ND
2	ND	ND	ND	ND	0.10	ND	0.10	ND	0.12	ND	ND	ND	0.32	ND	0.22	ND	0.20	ND	0.22	ND	0.11	ND	ND	ND
3	ND	ND	ND	ND	0.1	ND	0.10	ND	0.17	ND	ND	ND	0.1	ND	0.13	ND	0.26	ND	0.13	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	0.16	ND	0.13	ND	ND	ND	0.1	ND	0.24	ND	1.9	ND	0.20	ND	0.2	ND	ND	ND	ND	ND
Average	ND	ND	0.04	ND	0.1	ND	0.11	ND	0.14	ND	ND	ND	0.21	ND	0.13	0.17	0.17	ND	0.29	ND	0.06	ND	ND	ND

SILVER (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	18.2	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
2	<6.6	<6.6	9.3	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	11.1	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	9.8	<6.6
3	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	8.8	<6.6	<6.6	7.5	19.7	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	9.4	<6.6
4	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	7.5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	11.6	<6.6
Average	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	9.5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	7.7	<6.6

SILVER (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	7.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Avg	ND	ND	ND	ND	ND	ND	0	ND	1.9	ND	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND	1.7	1.9	ND

SILVER (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.5	0.9	4.1	0.7	0.9	ND	3.7	0.4	<0.2	<0.2	1.5	ND	1.7	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	1.3	3.6	0.4	4.1	0.4	3.4	0.2	0.2	0.7	0.7	ND	ND	0.2	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.7	1.5	0.2	1.5	3.8	0.6	1.1	0.2	2.9	0.4	0.4	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	1.2	1.4	0.2	4.8	0.4	0.4	0.7	1.9	0.3	2.2	ND	0.9	ND	ND
Avg	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4	1.2	3	0.4	3.4	0.4	2.2	0.4	3	0.4	1.9	1.9	ND	0.7	ND

SILVER (ug/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	0.7	0.6	ND	1.3	ND	0.8	ND	ND	ND	ND	2.7	ND	0.6	ND
2	ND	0.8	ND	ND	ND	ND	2.9	0.3	2.3	2.1	ND	1.9	ND	2.1	ND	2.9	<0.2	0.6	ND	1.3	ND	ND	ND	ND
3	ND	2.2	ND	ND	ND	ND	3.2	<0.2	2.2	ND	2.7	0.9	ND	0.6	ND	2.3	ND	ND	ND	1.5	ND	ND	ND	ND
4	ND	0.9	ND	ND	ND	ND	0.9	ND	2.4	ND	1	ND	ND	ND	ND	2.4	ND	ND	10	ND	ND	ND	ND	ND
Average	ND	1	ND	0.3	ND	0.3	2.3	0.1	2.3	0.1	2	1.1	ND	1	ND	2.1	0	1.1	ND	1.3	ND	0.2	ND	ND

SILVER (ug/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.6	ND	0.2	<0.2	ND	ND	ND	ND	ND	ND	ND	2.6	0.4	1.1	ND	1.1	ND	2.6	ND	2.1	0.3	3.6	ND	ND
2	1.2	ND	ND	0.2	ND	ND	3	ND	ND	ND	4.1	ND	1.3	ND	0.4	ND	3.0	ND	ND	1.4	ND	3.2	ND	ND
3	0.7	ND	ND	1.3	ND	ND	1.5	ND	2.3	ND	1.7	0.4	1	0.2	1.8	0.8	0.4	1.5	ND	1.2	ND	2.8	0.6	0.6
4	0.5	ND	0.2	ND	5.7	ND	5.7	ND	1.8	0.9	0.4	0.9	0.2	ND	1.9	ND	3.3	3.3	0.2	3.1	0.2	4	0.5	0.5
Average	1.0	ND	0.1	0.6	1.8	ND	1.8	0.2	1.8	0.2	1.3	0.3	2.0	1.5	ND	0.8	0.1	2.6	0.1	2.0	0.1	3.4	0.3	0.3

SILVER (ug/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	2.1	ND	0.5	ND	1.2	ND	2.4	ND	2.6	ND	3.6	ND	1.6	ND	1.4	ND	1.7	ND	1.7	ND	1.6	ND	1.1	ND
2	1.2	ND	ND	1.1	ND	1.1	ND	1.7	ND	2.4	ND	2.1	ND	2.4	ND	1.9	ND	0.7	ND	1.9	ND	1.9	ND	ND
3	1.8	0.5	ND	ND	2.1	ND	1	ND	2.8	ND	1.2	ND	2.4	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	1.2	ND	0.2	ND	3	ND	3	ND	3	0.6	ND	1.9	ND	1.1	ND	2.1	ND	1.8	ND	0.9	ND	0.6	ND	ND
Average	1.6	0.1	0.2	0.2	1.9	ND	1.3	ND	2.7	0.6	2.3	ND	2.0	1.5	ND	1.5	0.1	1.1	0.1	1.1	1.1	0.2	0.2	0.2

ZINC (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	140	26	122	29	138	28	134	31	144	28	139	29	172	25	125	18	98	30	110	29	178	32	119	21
2	152	31	158	40	131	25	140	26	144	21	127	21	189	28	130	24	164	81	126	31	122	25	116	23
3	149	33	120	28	148	30	146	29	126	25	161	28	180	27	139	19	154	24	123	41	128	14	121	23
4	140	42	140	42	138	26	149	26	126	25	112	23	113	22	142	30	116	18	182	33	128	14	117	16
Average	147	30	135	35	139	27	142	28	138	25	135	25	164	26	134	23	133	38	135	34	143	24	118	21

ZINC (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	112	ND	120	9	106	27	156	23	142	24	130	26	168	26	152	9	172	23	140	13	138	22	148	27
2	115	9	132	15	127	28	170	35	154	21	135	19	157	26	145	19	148	19	139	20	139	27	231	81
3	104	4	105	11	153	29	144	45	145	26	142	12	158	26	135	12	124	25	132	22	152	23	135	22
4	88	<4	115	11	138	26	156	31	144	23	118	20	130	30	124	12	126	22	126	16	124	21	133	28
Avg	105	2	118	12	129	28	157	34	146	24	131	19	153	27	139	13	148	22	134	18	138	23	162	40

ZINC (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	136	36	129	29	129	29	144	14	141	27	125	20	125	20	112	14	133	17	143	10	140	17	141	ND
2	165	47	148	28	145	42	154	18	141	19	134	19	134	19	175	23	134	15	124	16	116	19	134	ND
3	152	49	145	21	139	24	148	25	140	16	130	16	117	17	141	21	117	17	110	26	110	21	134	ND
4	183	53	135	33	138	49	171	23	128	22	16	16	130	16	191	17	73	18	98	21	120	17	105	ND
Avg	159	46	143	27	138	36	154	20	138	21	130	18	130	18	155	19	114	17	129	18	122	19	129	ND

ZINC (ug/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	103	23	137	24	112	25	141	31	133	22	125	50	111	21	125	20	146	21	138	19	168	23	134	23
2	96	25	136	22	103	25	142	26	139	21	128	66	131	18	132	19	171	22	188	14	188	14	148	31
3	97	20	196	18	130	22	144	28	118	19	127	58	68	24	146	18	131	17	138	16	254	21	149	21
4	116	25	90	27	117	24	134	24	142	26	122	28	128	25	71	16	145	20	150	23	120	19	118	19
Average	103	23	137	24	112	25	141	31	133	22	125	50	111	21	125	20	146	21	138	19	168	23	134	23

ZINC (ug/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	182	23	17	20	149	26	159	28	256	21	143	26	180	31	151	26	170	23	163	15	181	16	160	18
2	145	23	117	24	201	56	371	31	173	22	169	26	352	26	164	29	158	20	178	36	136	10	125	18
3	129	24	122	24	124	34	182	31	155	27	159	25	149	27	158	27	158	18	82	13	124	9	126	16
4	128	21	129	26	327	64	327	64	149	26	173	36	93	26	166	25	168	20	168	20	135	9	121	17
Average	146	23	121	24	158	39	260	39	183	24	161	28	194	28	160	27	162	20	148	21	144	11	133	17

ZINC (ug/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	163	18	87	21	149	22	176	18	140	13	183	17	166	17	149	22	152	27	180	24	144	16	129	19
2	153	17	82	21	137	18	167	25	153	13	178	16	195	40	172	20	150	25	166	26	159	16	129	19
3	149	19	91	22	146	17	164	19	170	15	154	14	191	21	113	24	159	19	130	17	113	20	127	17
4	159	29	149	29	159	17	164	22	154	12	146	22	146	22	168	23	187	17	134	18	170	25	126	16
Average	156	21	87	21	148	19	168	21	154	13	172	16	175	25	167	22	162	22	153	21	147	19	127	17

AMMONIA (mg/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	28	27.6	30.1	29.8	30.6	29	27.9	28.3	29.4	300.8	27.2	26	28	26.3	29.3	29	26.3	26	28	26.6	28.6	28.6	29.1	25.8	25.2
2	30.8	29.8	26.5	25.2	30.4	30.5	28.6	28	31.6	31.4	27.2	26.3	27.4	25.5	28.6	27.2	26.3	27.4	27.2	27.2	26.3	27.2	26.9	26.6	26.3
3	31.2	30.7	27.7	26	28.3	27.3	31.9	30.2	28.3	27.7	25.8	28.8	28.8	28.3	29.7	29.4	26.3	26.9	27.4	26.9	27.2	27.4	27.4	26.9	26.3
4			28.8	27.4	28.3	29.1	30	29.7	29.7	27.7	27.4	27.4	27.4	27.2	27.6	28	27.7	27.2	30	29.4			28	27.2	
Average	30.3	29.4	28.3	27.1	29.4	29	29.6	29.1	29.8	30	27.5	26.4	27.9	26.8	28.8	28.4	26.7	26.9	28.2	27.3	27.7	27.8	27.8	26.8	26.3

AMMONIA (mg/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	27.4	26.6	29.7	28.6	26.6	26	26.9	28	27.4	28	30.8	31.1	30.2	28.6	28	27.7	28	28.8	28.7	26.9	26	26	28	26.9	
2	27.4	27.7	26.6	25.5	20.2	20.4	30.2	30	29.7	30.2	30	30.2	29.4	28.8	27.4	28	28.6	28.6	28.3	28.3	28.3	28.3	28.3	28.6	29.1
3	23	23.7	25.2	22.7	27.4	26.9	26.9	27.2	28.8	29.4	29.7	30.5	29.7	30.8	29.1	28.3	29.4	29.4	26	24.9	26	25.5	25.5	26.3	26.6
4	27.2	26.9	24.9	24.6	28.8	28.8	30.5	30.5	30.5	30.5	27.7	29.1	28.8	28.6	27.7	27.2	26.9	27.4	*	26.9	27.4	*	29.4	28.3	
Avg	26.3	26	26.6	25.4	24.7	24.4	28.2	28.9	29.1	29.5	29.6	30.2	29.4	29.6	28.2	27.9	28.6	28.7	27.9	26.9	26.6	26.6	28.1	27.7	

* Not reportable.

AMMONIA (mg/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	29.1	28.8	29.1	28.8	25.2	25.5	25.8	26.6	28.2	26.5	28.8	29.1	28.6	28	29.4	29.1	28.3	27.2	30.2	30.2	23	24.1	26.9	26.6
2	29.7	29.4	29.1	29.4	27.7	28	27.2	27.4	29.7	30	27.4	28.3	26.9	27.4	29.1	29.3	27.7	26	27.4	28.3	28.3	28.3	27.7	27.4
3	26.9	26.6	30.5	27.4	27.7	28.3	24.8	24.9	31.4	30.8	30	28.8	28.6	28.3	30	28.6	26.9	28	22.1	23	27.2	26.6	28	28.3
4	30.2	29.4	20.4	20.4	29.1	28.3	27.4	28.3	28.6	28.8	27.4	28.3	28.3	28	28.3	28	28.3	28	19	19.3	27.4	27.2	25.2	24.6
Avg	29	28.6	26.7	25.7	27.4	27.5	26.3	26.8	29.5	29	28.4	28.6	27.9	27.8	29.2	28.8	27.8	27.3	24.7	25.2	26.5	26.4	27	26.7

AMMONIA (mg/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	21.6	21.3	28.5	27.7	17.4	17.4	27.7	28	28.6	28.3	28.3	28.3	27.7	29.1	28.8	28.6	28.3	29.1	28.6	29.1	28.6	28.3	31.4	30.5
2	25.2	24.6	26.6	27.4	28	26.6	29.1	28.6	28.6	27.4	30.8	30.2	28.6	28.3	29.4	28.6	29.4	29.1	30	28.6	29.4	28.3	29.7	29.4
3	27.1	26.6	21.6	21.3	26.9	26.6	27.1	26.9	28.3	28	29.7	29.4	29.4	29.1	27.4	27.4	28	27.7	27.4	27.4	30	29.7	29.7	29.4
4	24.6	24.2	26.2	26	24.2	23.8	28	27.7	28.5	27.9	29.3	28.8	28.4	28.4	28.3	28.1	28.7	28.6	28.7	28.8	28.7	27.7	29.7	26.3
Average	24.6	24.2	26.2	26	24.2	23.8	28	27.7	28.5	27.9	29.3	28.8	28.4	28.4	28.3	28.1	28.7	28.6	28.7	28.8	28.7	28.7	29.7	26.3

AMMONIA (mg/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	26.9	29.4	33.2	31.9	31.3	29.4	30.1	30.2	34.3	29.1	28.6	28.3	31.3	30.8	31.6	30.2	31.9	31.4	32.8	31.9	30.2	30.2	34.9	33.9
2	29.7	28.3	39.2	36.7	33	32.5	29.1	28.8	31.4	30.8	30.5	29.4	31.0	30.5	32.5	30.2	30.2	30.2	30.8	31.6	31.4	30.8	33.9	33.3
3	30.5	29.7	31.1	30.8	32.5	31.5	31.1	30.8	31.4	31.1	30.5	30.5	30.2	30.2	29.4	30	29.7	29.7	31.1	30.8	30.8	30.8	32.7	32.2
4	31	30.5	30	29.7	32.3	31.9	32.3	31.9	30.8	30.2	29.1	29.6	28.8	28.8	NA	NA	NA	NA	NA	NA	31.1	31.1	31.4	31.1
Average	29.5	29.5	33.4	32.3	32.3	31.1	30.7	30.4	32.0	30.3	29.3	30.6	30.1	30.6	31.2	30.2	30.4	30.4	31.5	31.5	30.9	30.9	33.2	32.6

AMMONIA (mg/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	31.9	31.6	33.3	33.0	29.7	30.0	33.6	33.3	32.7	31.4	32.9	32.5	30.8	30.5	31.4	30.5	29.7	32.5	31.6	32.8	31.9	31.9	32.8	27.4
2	31.1	31.1	31.6	31.4	30.4	30.5	NA	NA	32.2	31.6	33.6	33.3	32.8	31.9	33.3	31.6	31.4	31.4	30.8	34.4	32.8	34.4	32.8	8.3
3	31.4	31.4	32.2	29.4	32.4	31.1	33.5	32.8	30.8	30.8	32.2	31.6	34.4	33.3	31.1	29.7	33.6	32.8	34.4	33.3	29.4	29.4	30.7	29.4
4	29.4	29.7	33.3	32.5	32.5	32.5	33.3	32.8	NA	NA	32.9	32.9	33.0	33.0	30.0	32.4	31.6	32.5	31.1	28.3	28.3	28.8	28.6	
Average	31.0	31.2	31.4	31.0	31.3	31.0	33.1	32.7	31.9	31.3	32.5	32.7	32.2	32.2	31.7	30.5	31.8	31.4	32.7	31.7	31.2	30.6	32.6	28.5

CYANIDE (mg/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	0.003	0.002	0.01	0.009	0.003	0.003	0.003	0.003	0.005	0.005	0.004	0.003	0.002	0.003	0.002	0.003	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.003	0.003
2	0.004	0.003	0.007	0.006	0.006	0.004	0.002	0.003	0.006	0.007	0.002	0.003	0.003	0.003	0.003	0.002	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002
3	0.006	0.001	0.004	0.004	0.003	0.004	0.003	0.003	0.005	0.004	-0.002	0.004	0.005	0.005	-0.002	0.002	0.004	0.004	0.004	0.002	0.002	0.003	0.003	0.003	0.002
4	0.004	0.005	0.004	0.009	0.003	0.004	0.003	0.003	0.005	0.003	0.003	0.003	0.003	0.003	0.002	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.002	-0.002
Average	0.004	0.005	0.006	0.007	0.003	0.005	0.003	0.003	0.005	0.005	0.003	0.002	0.003	0.003	0.002	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002

CYANIDE (mg/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	nd	nd	0.003	0.003	nd	0.003	0.002	0.002	0.003	0.005	0.002	0.002	nd	0.003	0.003	0.003	0.002	0.003	0.003	0.004	0.002	0.002	0.002	0.002	0.004
2	0.005	0.005	0.002	nd	0.003	nd	0.002	0.002	nd	0.002	0.002	0.002	nd	0.002	0.004	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003
3	0.004	0.003	nd	0.002	nd	0.003	0.004	0.005	nd	0.002	0.002	0.003	0.003	0.003	0.004	0.006	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.004
4	0.002	0.002	0.003	0.004	nd	0.003	nd	0.003	nd	0.002	0.002	0.002	nd	0.002	nd	nd	0.003	0.003	0.003	0.004	0.002	0.002	0.002	0.003	-0.002
Avg	0.003	0.003	0.002	0.002	0.001	0.002	0.002	0.003	0.001	0.003	0.002	0.002	0.001	0.002	0.002	0.003	0.001	0.003	0.003	0.004	0.002	0.002	0.002	0.003	0.003

CYANIDE (mg/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	-0.002	0.003	0.003	-0.002	0.003	0.006	0.002	0.002	0.002	0.005	0.005	0.003	0.003
2	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.002	-0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.003
3	0.002	0.003	0.002	0.002	0.003	0.003	0.003	0.002	-0.002	0.003	0.002	0.002	0.003	0.003	0.002	0.002	-0.002	0.003	0.003	0.003	0.002	0.002	0.003	0.003
4	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	-0.002	0.003	0.002	0.002	0.002	0.007	0.002	0.003	0.003	0.002	0.003	0.003	0.003
Avg	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.003	0.002	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.003	0.002

CYANIDE (mg/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.003	0.002	0.002	0.002	0.003	0.002	0.003	0.003	0.002	0.002	0.003	0.003	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
2	0.003	0.002	0.003	0.003	0.003	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003
3	0.002	0.002	0.003	0.003	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	-0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.003
4	0.003	0.002	0.003	0.004	0.004	0.003	0.002	0.003	0.002	0.003	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Average	0.003	0.002	0.003	0.003	0.003	0.002	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002

CYANIDE (mg/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.002	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
2	0.002	-0.002	0.002	-0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
3	0.002	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
4	0.002	-0.002	0.003	-0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Average	0.002	0.001	0.003	0.001	0.002	0.001	0.002	0.001	0.002	0.002	0.002	0.001	0.002	0.000	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

CYANIDE (mg/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	0.002	0.003	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	0.002	0.002	ND	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
3	ND	-0.002	0.002	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Average	0.001	0.001	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.002	0.000	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

*Sample P24505 and P24508 were analyzed one day out of the 14 day holding time for cyanide analysis.

EFFLUENT RADIATION (pCi/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	2.7	28.5	1.5	37.1	1.6	33.4	1.9	32.5	1.9	13.3	1.2	35.7	0.7	21.5	1.8	12.2	0.1	27.9	1.5	14.9	1.3	25.5	0.8	14.9
2																								
3																								
4																								
Average	2.7	28.5	1.5	37.1	1.6	33.4	1.9	32.5	1.9	13.3	1.2	35.7	0.7	21.5	1.8	12.2	0.1	27.9	1.5	14.9	1.3	25.5	0.8	14.9

EFFLUENT RADIATION (pCi/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	1.2	13.4	3.5	20.8	1.4	20	3	16.2	1	20	2.6	20.8	1.1	20.9	1.7	20.4	1.1	19.9	0.2	23.4	0.3	9.9	1.1	31.7
2																								
3																								
4																								
Avg	1.2	13.4	3.5	20.8	1.4	20	3	16.2	1	20	2.6	20.8	1.1	20.9	1.7	20.4	1.1	19.9	0.2	23.4	0.3	9.9	1.1	31.7

EFFLUENT RADIATION (pCi/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	3	16.1	1.9	16.4	2.2	14.8	0.3	21.5	0.8	15.9	1	14.5	0.9	26.3	0.9	20.8	23.1	1.7	21.1	0.9	17	1.7	25.7	
2																								
3																								
4																								
Avg	3	16.1	1.9	16.4	2.2	14.8	0.3	21.5	0.8	15.9	1	14.5	0.9	26.3	0.9	20.8	23.1	1.7	21.1	0.9	17	1.7	25.7	

EFFLUENT RADIATION (pCi/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	1.5	15	3.2	18.9	2.5	8.8	1.1	16.8	2.9	13.9	3	19.3	1.3	14.3	1.3	20.2	2	11.7	1.9	13.1	0.7	25.7	2.7	18.1
2																								
3																								
4																								
Average	1.5	15	3.2	18.9	2.5	8.8	1.1	16.8	2.9	13.9	3	19.3	1.3	14.3	1.3	20.2	2	11.7	1.9	13.1	0.7	25.7	2.7	18.1

EFFLUENT RADIATION (pCi/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	0.7	12.3	0.7	38.3	2.7	10.5	2.7	10.9	1.5	16.3	1.0	12.1	1.6	14.6	1.5	13.3	0.7	10.7	0.2	13.4	2.7	17.7	1.9	12.8
2																								
3																								
4																								
Average	0.7	12.3	0.7	38.3	2.7	10.5	2.7	10.9	1.5	16.3	1.0	12.1	1.6	14.6	1.5	13.3	0.7	10.7	0.2	13.4	2.7	17.7	1.9	12.8

EFFLUENT RADIATION (pCi/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	0.6	5.5	1.5	23.9	2.3	27.7	2.8	26.3	1.1	29.8	1.5	20.7	1.1	28.6	1.4	27.5	0.8	25.4	0.2	28.0	2.5	24.8	1.1	19.5
2																								
3																								
4																								
Average	0.6	5.5	1.5	23.9	2.3	27.7	2.8	26.3	1.1	29.8	1.5	20.7	1.1	28.6	1.4	27.5	0.8	25.4	0.2	28.0	2.5	24.8	1.1	19.5

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	39	18	35	17	26	21	31	13	nd	nd	36	nd	23	nd	45	16	16	nd	26	nd	14	nd	nd	nd
2	47	14	40	nd	19	15	24	nd	nd	nd	36	nd	32	nd	nd	20	20	nd	48	22	13	13	nd	nd
3	45	17	33	15	40	nd	31	19	14	14	36	18	28	nd	50	12	27	20	99	24	10	nd	nd	nd
4	20	19	38	16	45	15	29	14	nd	nd	30	nd	33	nd	18	16	28	12	11	nd	nd	nd	nd	nd
Average	44	16	37	12	33	13	29	12	7	5	35	5	29	nd	28	11	23	8	46	12	12	4	nd	nd

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	33	nd	20	23	27	23	18	nd	nd	nd	31	13	28	nd	34	26	58	40	nd	nd	nd	nd	nd	nd
2	34	nd	490	175	nd	nd	23	nd	24	nd	38	20	29	nd	38	30	nd	nd	61	nd	61	27	nd	nd
3	30	nd	nd	nd	19	nd	25	nd	15	nd	55	12	31	13	31	37	nd	nd	nd	nd	nd	nd	nd	nd
4	20	19	12	15	nd	nd	32	nd	18	nd	29	21	32	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	29	5	131	53	15	8	25	nd	21	nd	38	17	30	3	34	31	19	13	nd	15.3	6.8	nd	nd	nd

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	16	nd	16	nd	16	nd	19	nd	nd	nd	14	nd	31	nd	16	11	29	ND	28	ND	24	16.5
2	14	nd	40	nd	nd	nd	nd	nd	11	nd	24.5	nd	26	nd	44	nd	16	12	41	ND	24	ND	20	ND
3	nd	nd	11	nd	15	nd	33	12	10	nd	29	nd	20	nd	20	nd	12	nd	11	ND	34	ND	26	ND
4	nd	nd	nd	nd	34	nd	nd	nd	98	nd	22	nd	88	67	nd	nd	13	nd	ND	ND	42	ND	25	ND
Avg	6.8	nd	3.7	nd	26.3	nd	12.3	3	24.5	nd	18.9	nd	42.7	22.3	23.8	nd	14.3	5.8	20.3	ND	32	ND	23.8	4.1

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	15	ND	ND	36	15	11.2	29.1	20.3	6.1	28.6	18.8	26	32.3	21.8	ND	29.8	5	5	ND	7	2.6
2	13	ND	ND	ND	ND	43	16	33	17	33	11.5	29.7	13.5	35	20	32	30	ND	31	ND	ND	ND	ND	10.5
3	21	ND	ND	30.5	12	ND	30.3	13.8	25	ND	15	ND	27.3	ND	44	72.5	14	ND	30	ND	ND	ND	ND	ND
4	28	ND	ND	ND	ND	39	ND	29.3	16	20	13	17.3	20.8	0	23	11	ND	29	29	20	15	ND	28	ND
Average	20.7	ND	7.6	6.8	ND	37.1	11.2	29.1	11	20.3	6.1	28.6	18.8	26	32.3	21.8	ND	29.8	5	5	ND	7	2.6	ND

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	30	14	ND	ND	12	ND	ND	ND	11.0	ND	30	12.5	24.0	ND	ND	ND	ND	ND	11	ND	ND	ND
2	49	17	ND	ND	ND	ND	ND	ND	ND	ND	15.0	ND	30	ND	14.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.0	ND	28	ND	22.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	14	ND	17	ND	ND	ND	ND	ND	21	ND	0.0	ND	ND	ND	21.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	20.3	4.3	11.8	3.5	ND	3	3	ND	5.3	ND	10.0	ND	22	3.1	20.3	ND	ND	ND	ND	ND	2.8	ND	ND	ND

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	426.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	15	ND	ND	ND	ND	ND	12.0	ND	ND	ND	ND	14.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0	ND
4	0	ND	ND	ND	ND	7.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	12.0	ND	ND	ND	ND	4.8	ND	2.5	ND	ND	ND	3.5	ND	ND	20.3	ND	ND	ND	ND	ND	2.3	ND	ND	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	215	nd	nd	nd	nd	nd
Average	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	54	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	131	139	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	43.7	46.2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	15.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	120.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DDT AND DERIVATIVES (ng/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	50	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	37	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	46	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Average	29	nd	12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

DDT AND DERIVATIVES (ng/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	24	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	6	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

DDT AND DERIVATIVES (ng/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	24	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	30	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	20	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	24	nd
Avg	nd	nd	nd	nd	nd	nd	nd	6	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	18.5	nd

DDT AND DERIVATIVES (ng/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.3	ND

DDT AND DERIVATIVES (ng/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DDT AND DERIVATIVES (ng/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	8.0	ND	24.0	8.0	15.0	ND	ND	18.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	16.0	ND	14.0	ND	230.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	8.0	ND	15.0	ND	8.0	ND	ND	11.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	22.0	4	16.0	ND	12.0	ND	ND	16.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	11.5	1	17.3	2.0	12.3	ND	5.0	11.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	22.5	15.1	19.3	19.9	20.1	19.5	22.6	17.1	16.6	14.6	17.8	11.2	15.9	7.4	14.4	8.8	14.7	9.3	13.9	9.7	15.7	8.2	17	9.1
2	19	14.1	14.8	13.2	14.9	13.2	15	13.1	12.7	11.9	13.2	7	11.3	9.4	13.4	7.7	12.6	7.8	16.1	8	12.3	7.1	9.9	9.4
3	15.9	15.3	14.2	12.3	14.7	17.1	17.3	15.7	13.9	11.1	13.1	15.7	13.3	9.8	11.8	9	11.4	6.5	13.8	9.8	9.2	7.4	9.4	7.5
4	19.6	20.2	19.6	20.2	6.3	0	11.9	12.9	18	10.3	10.3	7.9	8.9	8.2	8.9	8.2	13.7	8.1	10.3	6.8	10.3	18	18	15.3
Average	19.1	14.8	17	16.4	14	12.5	16.7	14.7	14.4	12.5	15.5	11.1	12.7	8.6	12.1	8.4	13.1	7.9	13.5	8.6	12.4	7.6	13.6	10.3

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	16.2	9.8	11.2	5.7	14	12.9	17.1	11.3	18.3	9.7	15	10.2	16	4.1	12.1	8.7	10.5	7.2	9.2	9.4	13.8	8.8	16.2	11
2	11.8	9.4	14.4	10.2	6.7	4.1	23.8	17.5	15.2	13.9	17.6	11.5	19.6	13.1	16.2	11.2	12.2	6.5	13.8	5.8	17	10.4	20.5	16.5
3	12.9	10	12.1	9.6	14	13.7	15.7	12	18.3	13.7	15.6	13	18.1	13.3	17.6	11.7	11.5	9.3	nd	7.2	16.7	6.5	15.6	9.7
4	18.2	13.3	10.5	8.6	11.6	10.2	17	12.4	15.6	12.8	13.2	11.4	20.5	14.1	14.9	10.1	15	7.7	15	8.7	17.5	12.6	17.1	13
Avg	14.8	10.6	12.1	8.5	11.6	10.2	18.4	13.3	16.9	12.5	15.4	11.5	18.6	11.2	15.2	10.4	11.4	7.7	12.7	7.8	16.3	9.6	17.4	12.6

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	16.9	13.6	11.6	13.9	17.5	14.6	17.5	13.6	11.5	10.1	16.2	10.6	18.4	11.1	11.4	9.1	15.9	10.7	14.7	7.4	15.5	10.9	12.5	11.9
2	21	19.6	13.8	11	13.7	15.7	12.3	11	21.3	19.9	27.5	10.9	20.3	11.1	19	8.8	16.5	9.9	16.4	11.1	16.2	9.7	17.7	10.3
3	17.4	18	15.8	12	14.7	14.7	15.6	13.3	21	14.2	19.4	11.1	11.1	11.8	10.4	15	8.9	8.9	5.6	4.4	12.1	8.2	17.8	12.4
4	16.6	18.4	9.1	8.8	9.7	11.9	13.5	13.2	14.6	11.9	22.5	13.4	20.2	9.6	17.8	11	15	7.2	7.6	4.3	16.2	12.9	11.8	7.7
Avg	18	17.4	12.9	10.6	12.4	14.1	14.7	12.8	17.1	14	21.4	11.5	19.6	10.6	15	9.8	15.6	9.2	11.1	6.8	15	10.4	15	10.6

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	11.3	8.1	11.3	7.6	4.3	2.9	14.6	13.7	16.3	11.5	16.3	11.5	17.3	11.2	9.4	5.5	13.4	8.3	13.3	939	19.7	12.9	19.7	15.6
2	7.5	6.1	10.9	6.3	11.2	9.6	13.1	12.5	17.9	11.6	15	13.1	18.7	12.7	13.6	10	13.1	13.4	14.3	11	17.1	13.1	15.3	10.7
3	9.1	5.9	15.2	10.2	14.6	12.6	14.9	13.5	20.4	13.5	17.2	13.6	17.8	11	15.5	8.4	9.4	12.3	11.6	11.4	14.7	13.7	14.1	8.3
4	17.3	12.2	7.9	5.6	16.1	10.8	16.7	10.2	17.7	9.3	15.5	10.6	7.9	11.6	8.2	8.4	15.5	12.5	19.5	11.9	16.2	12	16.8	10.8
Average	11.3	8.1	11.3	7.6	11.6	9	14.8	12.5	18.7	11.5	16	12.2	15.4	11.6	11.7	8.1	12.9	11.6	14.7	11	16	12.9	16.5	11.4

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	15.8	12.4	14.1	12.9	16.5	15.9	27.3	19	22	10.5	14.6	13.2	26.9	13.5	20.3	13.4	21.3	15.2	14.9	10.4	16.3	7.7	19.3	13.6
2	17.4	12.4	14.3	10.7	16.4	13.6	22.1	15.6	40.5	21.8	21.9	16.3	16.4	13.1	17	12.7	11.7	10.9	19.3	13.2	19.5	13	18.2	11.9
3	12.2	10.7	15	12.1	31.5	25.6	26.7	18.8	23.5	17.7	21.6	17.3	20.9	13.5	22.5	15.6	11.6	9.9	17.1	13.4	16.9	11.5	17.6	13.7
4	12.6	11.6	15.1	10.4	21.6	18.4	21.6	18	19.9	12.4	14.7	14.4	18.2	11.9	21.8	11.4	8.2	10	21.3	11.8	26.2	14.9	26.2	22.5
Average	14.5	11.8	14.6	11.5	21.5	18.4	24.4	17.9	26.5	15.6	18.2	15.3	20.6	13.0	20.4	13.3	14.9	12.0	14.9	11.8	18.5	11.8	20.3	15.4

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	18.8	15.1	15.7	12.7	16.2	12.9	19.9	17.5	20.3	15.7	16	13	14.3	9.3	16	10	16.2	9.4	19.4	8.7	18.5	12.3	14.2	8.8
2	16.9	15.4	15.7	12.7	16.4	14.5	17.9	16.4	21.1	12.5	20.2	13.2	12.4	10.2	14.6	8	14.7	8.7	17.7	10.5	21.6	14.5	15.5	11.6
3	19.6	20.1	29.9	15.2	17.8	13.4	12.8	11.3	20	12.6	16.8	9.3	16.9	12.4	16.3	7.9	15.4	8.9	13.7	8.1	20.3	13.3	16.4	12.2
4	11.1	16.7	16.3	13.5	16.1	13.4	19.6	14.2	16.6	11.1	12.7	7.5	12	6.6	15.3	17.6	17.9	17.6	17.9	10.5	17.1	12	16.4	12.2
Average	16.6	16.8	20.6	13.8	16.6	13.6	17.6	14.9	19.5	13.0	17.7	11.8	14.1	9.9	14.7	8.1	15.4	11.2	17.2	9.5	19.4	13.0	15.4	10.9

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