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 2010 Monthly Averages

DISCHARGE SPECIFICATIONS from NPDES Permit No. CA0107409/RWQCB Order No. R9-2009-0001 effective on August 1, 2010 with limits on pollutant discharges.

Constituent/Property	Benchmarks (mt/yr)	2010 Mass Emissions (mt/yr)	2010 Concentration	Units
Flow (MGD)			**156.7**	MGD
Total Suspended Solids	13,995	8,006	37	mg/L
BOD		22,503	104	mg/L
Arsenic	0.88	0.19	0.87	ug/L
Cadmium	1.4	0.00	0.00	ug/L
Chromium	14.2	0.39	1.8	ug/L
Copper	26	4.59	21.2	ug/L
Lead	14.2	0.06	0.3	ug/L
Mercury	0.19	0.001	0.0036	ug/L
Nickel	11.3	1.73	8.0	ug/L
Selenium	0.44	0.27	1.23	ug/L
Silver	2.8	0.00	0.00	ug/L
Zinc	18.3	5.41	25	ug/L
Cyanide	1.57	0.43	0.002	mg/L
Residual Chlorine	--	2.17	0.01	mg/L
Ammonia	8018	6,791	31.3	mg/L
Non-Chor. Phenols	2.57	3.20	14.8	ug/L
Chlorinated Phenols	1.73	0.00	0.0	ug/L
Endosulfan	0.006	0.0002	1	ng/L
Endrin	0.008	0.00	0	ng/L
hexachlorocyclohexanes *(HCH) * (all as Lindane, the gamma isomer)	0.025	0.0002	1	ng/L
Acrolein	17.6	0.00	0	ug/L
Antimony	56.6	0.00	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	0.0	ug/L
Chromium (III)	--	--		
di-n-butyl phthalate	1.33	0.00	0	ug/L
dichlorobenzenes	2.8	0.00	0	ug/L
1,1-dichloroethylene	0.79	0.00	0	ug/L
Diethyl phthalate	6.23	1.51	7	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	0.04	0.2	ug/L
Fluoranthene	0.62	0.00	0	ug/L
Hexachlorocyclopentadiene	-	0.00	0	ug/L

Constituent/Property	Benchmarks (mt/yr)	2010 Mass Emissions (mt/yr)	2010 Concentration	Units
Nitrobenzene	2.07	0.00	0	ug/L
Thallium	36.8	0.00	0.0	ug/L
Toluene	3.31	0.30	1.4	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	0.00	0	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	0.001	0.003	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	1.08	5	ug/L
DDT	0.043	0.00	0	ng/L
1,4-dichlorobenzene	1.25	0.11	0.5	ug/L
3,3-dichlorobenzidine	4.67	0.00	0	ug/L
1,2-dichloroethane	0.79	0.00	0	ug/L
Dichloromethane	13.7	2.25	10.4	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	1.17	5.4	ug/L
Heptachlor	0.001	0.00022	1	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	--	0.000000005	0.024	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. R9-2009-0001

DISCHARGE SPECIFICATIONS from NPDES Permit No. CA0107409/RWQCB Order No. R9-2009-0001 effective on August 1, 2009 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. R9-2009-0001 as modified by addendum 2 to the order						
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[8]	mg/L lb/day		75 15,000			
pH	pH units		Within the limits of 6.0 - 9.0 at all times.			
Grease & Oil	mg/L lb/day		25 42,743	40 68,388		75 128,228
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	210			820	2,100
Chromium[9] (Hexavalent)	ug/L	410			1,600	4,100
Copper	ug/L	210			2,100	5,700
Lead	ug/L	410			1,600	4,100
Mercury	ug/L	8.1			33	82
Nickel	ug/L	1,000			4,100	10,000
Selenium	ug/L	3,100			12,000	31,000
Silver	ug/L	110			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	0.41			1.6	12
Ammonia (expressed as Nitrogen)	mg/L	120			490	1,200
Chronic Toxicity	TUc				205	
Phenolic Compounds (non- chlorinated)	ug/L	6,200			25,000	62,000
Chlorinated Phenolics	ug/L	210			820	2,100
Endosulfan	ng/L	1,800			3,700	5,500
Endrin	ng/L	410			820	1,200
HCH (hexachlorocyclohexanes)	ng/L lb/day	820			1,600	2,500

[8] 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.

[9] Hexavalent Chromium limit met as Total Chromium.

LIMITATIONS FOR PROTECTION OF HUMAN HEALTH--NONCARCINOGENS		
Constituent	Units	Monthly Average (30-Day)
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)[10]	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		
Constituent	Units	Monthly Average (30-Day)
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
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

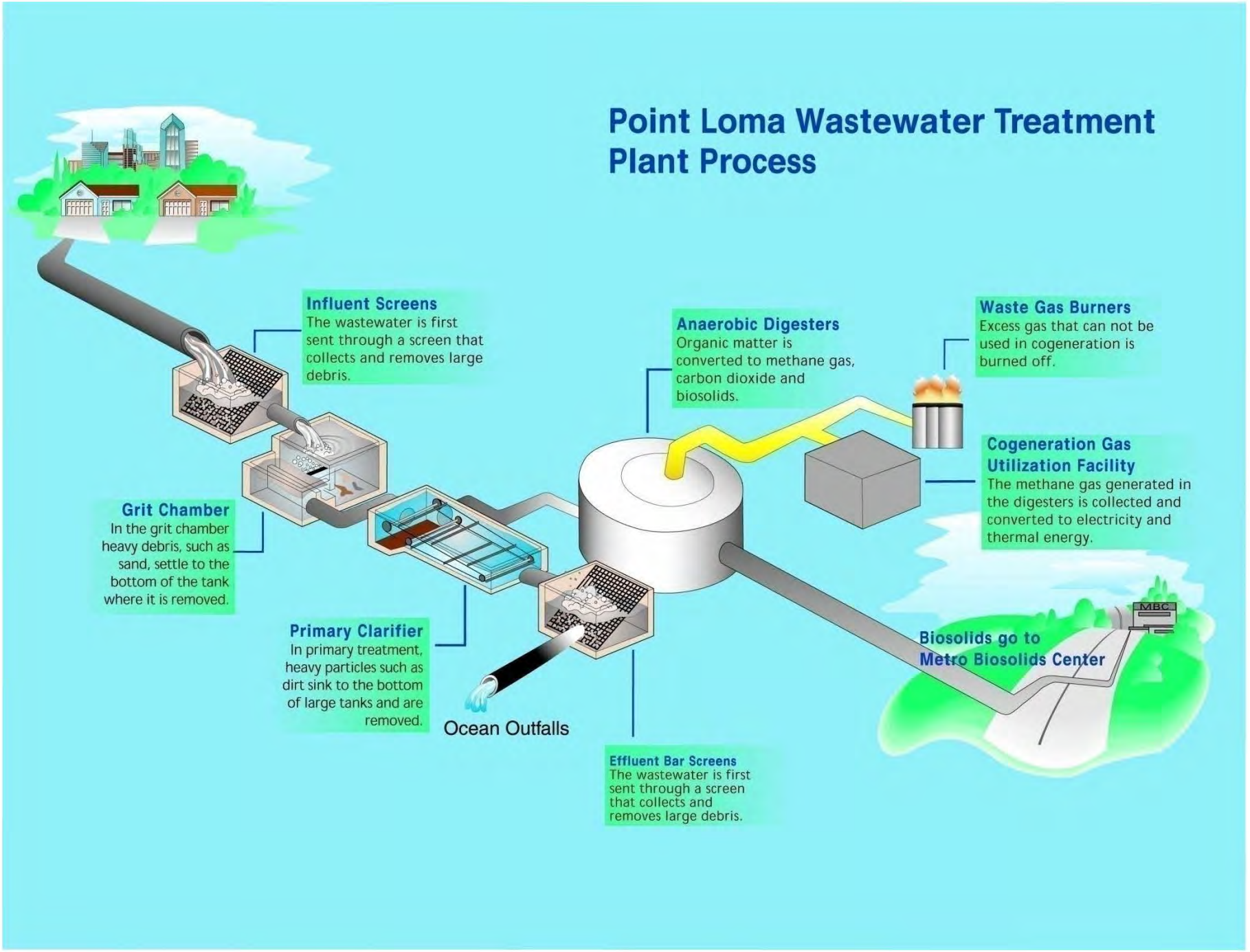
[10] Chromium (III) limit is met by Total Chromium.

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.

On January 23rd 2010 a calculation of the Systemwide TSS Removals resulted in a negative removal. Shutdown of the blended sludge pumps (BSPS) caused an increased flow at the plant drain. While solids content was expected to be elevated, the values obtained for TSS on January 23rd and 24th of 16,900mg/L and 11,800mg/L, respectively, may not completely reflect internal plant processes.

Also the plant experienced significant rain-induced high flows during December. For example, the flows on December 21, 22 and 23, 2010 were 318.3, 393.9, and 261.2 million gallons, respectively. However, the monthly average flow rate of 181.6 MGD was well below the section III.B. limit. Nor did the peaked flows exceed the peak wet weather design flow of 432 MGD. The frequency of rain events and the high daily flows that resulted from them this month are not typical. The daily flow rates in 2011 have returned to normal rates and flow rates are expected to remain below 75% of designed treatment capacity in the future.


Point Loma Wastewater Treatment Plant Process
Influent Screens
The wastewater is first sent through a screen that collects and removes large debris.
Anaerobic Digesters
Organic matter is converted to methane gas, carbon dioxide and biosolids.
Waste Gas Burners
Excess gas that can not be used in cogeneration is burned off.
Cogeneration Gas Utilization Facility
The methane gas generated in the digesters is collected and converted to electricity and thermal energy.
Grit Chamber
In the grit chamber heavy debris, such as sand, settle to the bottom of the tank where it is removed.
Primary Clarifier
In primary treatment, heavy particles such as dirt sink to the bottom of large tanks and are removed.
Ocean Outfalls
Effluent Bar Screens
The wastewater is first sent through a screen that collects and removes large debris.
MBC
Biosolids go to Metro Biosolids Center

Point Loma Wastewater Treatment Plant

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL

From 01-JAN-2010 To 31-DEC-2010

Biochemical Oxygen Demand Concentration

	Flow	Daily Influent Value (mg/L)	Daily Influent Value (lbs/Day)	Daily Effluent Value (mg/L)	Daily Effluent Value (lbs/Day)	Percent Removal BOD (%)
JANUARY -2010	169.1	287	404754	105	148081	63.4
FEBRUARY -2010	169.6	280	396050	106	149933	62.1
MARCH -2010	163.0	301	409185	104	141380	65.4
APRIL -2010	157.5	305	400633	108	141863	64.6
MAY -2010	150.5	312	391613	106	133048	66.0
JUNE -2010	147.1	300	368044	105	128815	65.0
JULY -2010	145.9	290	352874	105	127765	63.8
AUGUST -2010	145.2	294	356025	105	127152	64.3
SEPTEMBER-2010	144.4	283	340816	104	125247	63.3
OCTOBER -2010	153.2	265	338587	100	127769	62.3
NOVEMBER -2010	152.8	273	347898	102	129984	62.6
DECEMBER -2010	181.6	256	387723	95	143882	62.9
Average	156.7	287	374517	104	135410	63.8

Total Suspended Solids Concentration

	Flow MGD	Daily Influent TSS (mg/L)	Daily Influent VSS (mg/L)	Percent VSS of TSS (%)	Daily Influent Value (lbs/Day)	Daily Effluent TSS (mg/L)	Daily Effluent VSS (mg/L)	Percent VSS of TSS (%)	Daily Effluent Value (lbs/Day)
JANUARY -2010	169.1	284	237	83.5	400523	35	26	74.3	49360
FEBRUARY -2010	169.6	306	260	85.0	432826	36	28	77.8	50921
MARCH -2010	163.0	305	259	84.9	414623	36	28	77.8	48939
APRIL -2010	157.5	323	273	84.5	424277	37	28	75.7	48601
MAY -2010	150.5	343	289	84.3	430523	34	26	76.5	42676
JUNE -2010	147.1	351	293	83.5	430612	39	30	76.9	47846
JULY -2010	145.9	344	288	83.7	418581	36	28	77.8	43805
AUGUST -2010	145.2	336	286	85.1	406885	34	27	79.4	41173
SEPTEMBER-2010	144.4	340	289	85.0	409461	37	29	78.4	44559
OCTOBER -2010	153.2	323	272	84.2	412693	39	30	76.9	49830
NOVEMBER -2010	152.8	314	266	84.7	400147	37	28	75.7	47151
DECEMBER -2010	181.6	305	252	82.6	461936	45	34	75.6	68154
Average	156.7	323	272		420257	37	29		48585

	Percent Removal TSS (%)	Percent Removal VSS (%)
JANUARY -2010	87.7	89.0
FEBRUARY -2010	88.2	89.2
MARCH -2010	88.2	89.2
APRIL -2010	88.5	89.7
MAY -2010	90.1	91.0
JUNE -2010	88.9	89.8
JULY -2010	89.5	90.3
AUGUST -2010	89.9	90.6
SEPTEMBER-2010	89.1	90.0
OCTOBER -2010	87.9	89.0
NOVEMBER -2010	88.2	89.5
DECEMBER -2010	85.2	86.5
Average	88.5	89.5

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

POINT LOMA WASTEWATER TREATMENT PLANT

Systemwide BOD Removals

Annual 2010

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	Pt. Loma Daily BOD Eff Conc.
JAN	400,525	28,763	16,431	4,997	23,701	28,698	145,401	64.8	63.2	105
FEB	396,773	26,356	15,118	7,035	14,865	21,900	149,827	63.9	62.1	106
MAR	408,013	28,032	17,253	4,739	16,084	20,823	141,227	67.3	65.3	104
APR	400,579	32,030	18,008	5,327	18,309	23,636	141,736	66.7	64.5	108
MAY	391,900	36,821	13,128	7,061	18,774	25,835	133,083	67.9	66.0	106
JUN	368,200	33,960	17,133	8,196	16,047	24,243	128,312	67.4	65.0	105
JUL	352,552	32,530	15,987	5,797	5,069	10,867	127,578	67.2	63.6	105
AUG	355,428	47,465	1,550	4,118	3,124	7,242	127,092	68.0	64.2	105
SEP	341,081	49,099	520	4,284	3,104	7,389	124,810	67.4	63.3	104
OCT	336,609	30,589	16,227	5,051	5,714	10,765	127,760	65.7	62.0	100
NOV	347,831	29,335	14,757	5,719	989	6,708	130,138	66.2	62.5	102
DEC	367,981	27,853	19,677	5,141	18,132	23,273	142,118	63.3	60.9	96
avg	372,289	33,569	13,816	5,622	11,993	17,615	134,924	66.3	63.6	104

Systemwide TSS Removals

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	Pt. Loma Daily TSS Eff Conc.
10-01	401,666	26,240	24,261	12,290	47,534	59,824	49,745	83.1	87.4	35
10-02	432,188	28,091	21,124	13,651	30,106	43,757	51,599	87.2	88.0	36
10-03	413,016	26,919	22,785	14,029	20,600	34,630	49,520	88.4	88.0	36
10-04	424,166	28,792	20,680	14,545	22,017	36,561	48,003	89.0	88.6	37
10-05	430,775	30,929	17,885	16,084	22,575	38,659	42,813	90.3	90.0	34
10-06	429,838	30,245	24,077	24,670	16,663	41,333	47,686	89.1	88.8	39
10-07	418,496	29,786	22,092	14,127	6,529	20,656	44,352	90.1	89.4	36
10-08	407,074	46,752	1,699	11,204	3,903	15,107	41,026	90.6	89.9	34
10-09	408,975	45,004	923	10,633	6,069	16,702	44,801	89.7	89.0	37
10-10	411,694	29,480	22,071	14,345	14,106	28,451	49,855	88.5	87.9	39
10-11	399,751	27,166	20,182	12,228	1,879	14,107	47,531	89.0	88.1	37
10-12	448,369	26,472	24,901	12,104	19,466	31,570	75,395	85.1	84.4	45
avg	418,834	31,323	18,557	14,159	17,621	31,780	49,361	88.3	88.3	37.1

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

From 01-JAN-2010 To 31-DEC-2010

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 -2010	7.23	0.1	105	9.6	22.9	ND	37
FEBRUARY -2010	7.21	0.2	106	11.2	22.4	ND	36
MARCH -2010	7.17	0.2	104	11.3	23.0	ND	34
APRIL -2010	7.19	0.2	108	11.9	23.8	<1.40	36
MAY -2010	7.20	0.2	106	12.9	24.8	ND	37
JUNE -2010	7.16	0.4	105	14.4	26.0	ND	40
JULY -2010	7.21	0.4	105	12.5	27.0	ND	41
AUGUST -2010	7.24	0.6	105	11.6	27.4	ND	41
SEPTEMBER-2010	7.24	0.5	104	13.5	27.6	ND	40
OCTOBER -2010	7.20	0.4	100	12.4	26.7	ND	39
NOVEMBER -2010	7.23	0.4	102	11.6	25.4	ND	38
DECEMBER -2010	7.22	0.4	95	11.3	23.2	ND	37
Average	7.21	0.3	104	12.0	25.0	0.00	38

Influent to Plant
(PLR)

	pH	Settleable Solids (ml/L)	Biochemical Oxygen Demand (mg/L)	Hexane Extractable Material (mg/L)	Temperature (C)	Floating Particulates (mg/L)	Turbidity (NTU)
JANUARY -2010	7.38	15.90	287	43.1	23.0	<1.40	138
FEBRUARY -2010	7.39	14.10	280	39.1	22.4	1.49	140
MARCH -2010	7.36	15.40	301	42.0	23.1	<1.40	136
APRIL -2010	7.35	14.20	305	47.5	23.6	<1.40	136
MAY -2010	7.33	16.00	312	46.1	24.7	<1.40	136
JUNE -2010	7.29	13.90	300	51.1	26.0	<1.40	138
JULY -2010	7.30	14.30	290	46.9	26.9	<1.40	136
AUGUST -2010	7.34	15.80	294	45.8	27.2	<1.40	135
SEPTEMBER-2010	7.34	17.60	283	48.6	27.5	<1.40	134
OCTOBER -2010	7.34	17.40	265	47.0	26.9	<1.40	131
NOVEMBER -2010	7.31	18.20	273	50.3	25.4	ND	134
DECEMBER -2010	7.34	15.10	256	42.7	23.4	<1.40	129
Average	7.34	15.7	287	45.9	25.0	0.1	135

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

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

From: 01-JAN-2010 to: 31-DEC-2010

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 -2010	ND	ND	1.72	0.93	0.069	0.039	ND	ND
FEBRUARY -2010	ND	ND	1.43	0.83	<0.022	ND	ND	ND
MARCH -2010	ND	ND	1.51	0.90	<0.022	<0.022	ND	ND
APRIL -2010	ND	ND	1.38	0.87	0.052	ND	ND	ND
MAY -2010	ND	ND	1.16	0.71	<0.022	ND	ND	ND
JUNE -2010	ND	ND	1.24	0.81	ND	ND	ND	ND
JULY -2010	ND	ND	0.86	0.63	ND	ND	ND	ND
AUGUST -2010	ND	ND	1.37	1.06	<0.022	ND	ND	ND
SEPTEMBER-2010	ND	ND	1.10	0.88	<0.022	ND	ND	ND
OCTOBER -2010	ND	ND	1.15	0.89	ND	ND	ND	ND
NOVEMBER -2010	ND	ND	1.09	0.79	0.028	<0.022	ND	ND
DECEMBER -2010	ND	ND	2.06	1.11	ND	ND	ND	ND
AVERAGE	ND	ND	1.34	0.87	0.012	0.003	ND	ND

Analyte:	Chromium	Chromium	Copper	Copper	Iron	Iron	Lead	Lead
MDL	1.2	1.2	2	2	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 -2010	6.6	1.8	103.0	20.1	6200	2140	3.6	ND
FEBRUARY -2010	8.2	2.4	92.1	19.8	6170	2530	2.7	ND
MARCH -2010	6.7	1.9	101.0	19.4	7600	2640	3.5	ND
APRIL -2010	9.0	2.2	112.0	19.8	7670	2850	4.3	ND
MAY -2010	11.2	3.1	110.0	23.9	7680	2470	4.0	<2.0
JUNE -2010	9.2	1.2	123.0	17.1	8280	2680	3.7	ND
JULY -2010	5.3	1.8	77.6	16.8	5640	2470	2.5	ND
AUGUST -2010	9.2	1.9	130.0	19.0	7180	2190	4.1	ND
SEPTEMBER-2010	6.8	2.2	105.0	20.0	6560	2380	2.9	ND
OCTOBER -2010	9.2	1.6	116.0	30.2	7630	2580	5.9	3.6
NOVEMBER -2010	6.3	<1.2	133.0	25.6	6470	2550	2.9	ND
DECEMBER -2010	7.4	1.6	92.7	22.2	6780	2800	3.7	ND
AVERAGE	7.9	1.8	108.0	21.2	6988	2523	3.7	0.3

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-2010 to: 31-DEC-2010

Analyte:	Nickel	Nickel	Selenium	Selenium	Silver	Silver	Thallium	Thallium
MDL	.53	.53	.28	.28	.4	.4	3.9	3.9
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 -2010	11.7	7.4	2.30	1.68	0.8	ND	ND	ND
FEBRUARY -2010	16.9	11.2	2.13	1.56	1.0	ND	ND	ND
MARCH -2010	11.9	7.3	2.03	1.57	1.4	<0.4	ND	ND
APRIL -2010	12.8	7.1	1.75	1.29	0.8	ND	ND	ND
MAY -2010	19.2	10.2	1.74	1.16	0.6	ND	<3.9	ND
JUNE -2010	14.0	7.6	2.09	1.19	1.2	ND	<3.9	ND
JULY -2010	9.9	6.7	1.47	1.03	<0.4	ND	ND	<3.9
AUGUST -2010	15.3	7.6	1.55	0.95	1.1	ND	ND	ND
SEPTEMBER-2010	14.7	8.9	1.52	0.91	<0.4	ND	ND	ND
OCTOBER -2010	12.2	8.3	1.50	0.99	1.5	ND	ND	ND
NOVEMBER -2010	10.8	6.8	1.65	1.02	1.1	ND	ND	ND
DECEMBER -2010	10.6	7.4	2.02	1.39	1.0	ND	ND	ND
AVERAGE	13.3	8.0	1.81	1.23	0.9	0.0	0.0	0.0

Analyte:	Zinc	Zinc
MDL	2.5	2.5
Units	UG/L	UG/L
Source:	PLR	PLE
JANUARY -2010	145	27
FEBRUARY -2010	138	26
MARCH -2010	155	24
APRIL -2010	157	25
MAY -2010	185	27
JUNE -2010	169	24
JULY -2010	113	23
AUGUST -2010	162	22
SEPTEMBER-2010	146	25
OCTOBER -2010	170	26
NOVEMBER -2010	162	28
DECEMBER -2010	134	27
AVERAGE	153	25

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-2010 to: 31-DEC-2010

Analyzed by method SM 3112

Analyte:	Mercury	Mercury
MDL	.09	.09
Units	UG/L	UG/L
Source:	PLR	PLE
JANUARY -2010	0.35	ND
FEBRUARY -2010	0.21	ND
MARCH -2010	0.10	ND
APRIL -2010	<0.09	ND
MAY -2010	0.21	ND
JUNE -2010	0.22	ND
AVERAGE	0.18	ND

Analyzed by method EPA 1631

Analyte:	Mercury	Mercury
MDL	.5	.5
Units	NG/L	NG/L
Source:	PLR	PLE
JULY -2010	145.0	6.42
AUGUST -2010	138.0	6.61
SEPTEMBER-2010	105.0	4.30
OCTOBER -2010	159.0	6.08
NOVEMBER -2010	146.0	11.5
DECEMBER -2010	53.7	8.23
AVERAGE	124.5	7.19

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-2010 to: 31-DEC-2010

	Ammonia-N .3 MG/L PLR	Ammonia-N .3 MG/L PLE	Cyanides,Total .002 MG/L PLR	Cyanides,Total .002 MG/L PLE
Limit:		123		0.200
JANUARY -2010	29.4	29.6	<0.002	0.002
FEBRUARY -2010	30.4	30.5	0.003	0.003
MARCH -2010	31.6	31.7	<0.002	0.002
APRIL -2010	30.9	30.2	<0.002	0.002
MAY -2010	33.2	33.2	0.002	0.002
JUNE -2010	32.8	32.8	0.003	0.002
JULY -2010	33.6	32.7	<0.002	<0.002
AUGUST -2010	31.7	32.0	0.002	0.003
SEPTEMBER-2010	32.9	31.4	<0.002	0.002
OCTOBER -2010	32.3	31.0	0.002	0.002
NOVEMBER -2010	30.5	31.0	ND	<0.002
DECEMBER -2010	30.2	29.1	<0.002	0.002
Average:	31.6	31.3	0.001	0.002

	Chlorine Residual, Total .03 MG/L PLE
Limit:	
JANUARY -2010	0.06
FEBRUARY -2010	0.06
MARCH -2010	<0.03
APRIL -2010	ND
MAY -2010	ND
JUNE -2010	ND
JULY -2010	ND
AUGUST -2010	ND
SEPTEMBER-2010	ND
OCTOBER -2010	<0.03
NOVEMBER -2010	ND
DECEMBER -2010	0.04
Average:	0.01

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SEWAGE
Radioactivity

From: 01-JAN-2010 To: 31-DEC-2010

Analyzed by: TestAmerica Laboratories Richland

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
PLE	JANUARY -2010	4.9±3.4	33.8±7.3
PLE	FEBRUARY -2010	9.0±4.9	31.5±7.9
PLE	MARCH -2010	1.9±3.7	32.8±8.0
PLE	APRIL -2010	3.2±2.8	29.8±6.8
PLE	MAY -2010	2.4±3.8	31.8±8.5
PLE	JUNE -2010	3.2±2.7	31.8±6.6
PLE	JULY -2010	3.3±3.8	24.7±5.8
PLE	AUGUST -2010	3.1±2.5	35.6±8.5
PLE	SEPTEMBER-2010	0.9±2.7	32.7±7.5
PLE	OCTOBER -2010	3.2±4.6	46.1±13.0
PLE	NOVEMBER -2010	3.6±3.0	32.7±7.9
PLE	DECEMBER -2010	-1.8±3.0	28.1±7.8
AVERAGE		3.1±3.4	32.6±8.0

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
PLR	JANUARY -2010	3.5±3.0	35.7±7.6
PLR	FEBRUARY -2010	5.2±3.6	38.7±9.6
PLR	MARCH -2010	6.7±4.0	34.8±8.2
PLR	APRIL -2010	3.3±3.6	26.2±7.4
PLR	MAY -2010	0.4±3.6	35.0±9.0
PLR	JUNE -2010	6.7±4.0	32.3±7.6
PLR	JULY -2010	2.3±3.5	30.0±7.0
PLR	AUGUST -2010	-2.1±2.1	31.8±9.4
PLR	SEPTEMBER-2010	2.1±3.0	32.6±8.5
PLR	OCTOBER -2010	3.0±5.9	29.8±12.0
PLR	NOVEMBER -2010	1.8±2.8	25.1±9.4
PLR	DECEMBER -2010	5.6±3.4	29.1±7.6
AVERAGE		3.2±3.5	31.8±8.6

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-2010 To 31-DEC-2010

Analyte	MDL	Units	PLE JAN Avg	PLE FEB Avg	PLE MAR Avg	PLE APR Avg	PLE MAY Avg	PLE JUN Avg	PLE JUL Avg	PLE AUG Avg	PLE SEP Avg	PLE OCT Avg	PLE NOV Avg	PLE DEC Avg	PLE Average
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	<5	ND	ND	ND	ND	ND	ND	ND	0
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21	ND	2
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	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	6	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<5	ND	0
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	ND	0
Beta Endosulfan	2	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	330	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	360	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	930	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin + Dieldrin	7	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	0	0	0	0	0	0	0	21	0	2
DDT and derivatives	8	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlordane + related cmpds.	6	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	6	NG/L	0	0	0	0	4	0	0	0	0	0	0	0	0
Heptachlors	8	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlorinated Hydrocarbons	4000	NG/L	0	0	0	0	4	0	0	0	0	0	21	0	2

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

From 01-JAN-2010 To 31-DEC-2010

Analyte	MDL	Units	PLR JAN Avg	PLR FEB Avg	PLR MAR Avg	PLR APR Avg	PLR MAY Avg	PLR JUN Avg	PLR JUL Avg	PLR AUG Avg	PLR SEP Avg	PLR OCT Avg	PLR NOV Avg	PLR DEC Avg	PLR Average
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	7	ND	ND	ND	ND	ND	ND	ND	1
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	<4	<4	ND	ND	ND	ND	ND	<4	ND	ND	ND	0
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND	0
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	ND	ND	1
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	0
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND	ND	<4	ND	ND	ND	ND	ND	ND	0
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	6	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	<5	ND	1
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	<3	ND	ND	0
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	9	ND	ND	ND	ND	ND	ND	ND	1
Beta Endosulfan	2	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	330	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	360	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	930	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin + Dieldrin	7	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	0	7	0	0	0	0	0	0	0	1
DDT and derivatives	8	NG/L	0	0	0	0	0	0	0	0	4	0	0	0	0
Chlordane + related cmpds.	6	NG/L	0	0	0	0	0	4	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	6	NG/L	0	0	0	0	9	0	0	0	0	0	0	0	1
Heptachlors	8	NG/L	0	0	0	0	0	0	0	0	0	9	0	0	1
Chlorinated Hydrocarbons	4000	NG/L	0	0	0	0	16	4	0	0	4	19	0	0	4

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

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER
SLUDGE PROJECT- ANNUAL SUMMARY
Organophosphorus Pesticides

From 01-JAN-2010 To 31-DEC-2010

Analyte	MDL	Units	PLE 04-MAY-2010 P515390	PLE 03-AUG-2010 P524948	PLE 05-OCT-2010 P533505
Demeton O	.15	UG/L	ND	ND	ND
Demeton S	.08	UG/L	ND	ND	ND
Diazinon	.03	UG/L	ND	ND	ND
Guthion	.15	UG/L	ND	ND	ND
Malathion	.03	UG/L	0.65	ND	0.11
Parathion	.03	UG/L	ND	ND	ND
Thiophosphorus Pesticides	.15	UG/L	0.65	0.00	0.11
Demeton -O, -S	.15	UG/L	0.00	0.00	0.00
Total Organophosphorus Pesticides	.3	UG/L	0.7	0.0	0.1
Bolstar	.07	UG/L	ND	NR	NR
Chlorpyrifos	.03	UG/L	ND	ND	ND
Coumaphos	.15	UG/L	ND	ND	ND
Dibrom	.2	UG/L	ND	NR	NR
Dichlofenthion	.03	UG/L	ND	NR	NR
Dichlorvos	.05	UG/L	ND	ND	ND
Dimethoate	.04	UG/L	ND	ND	ND
Disulfoton	.02	UG/L	ND	ND	ND
EPN	.09	UG/L	ND	NR	NR
Ethoprop	.04	UG/L	ND	NR	NR
Fensulfothion	.07	UG/L	ND	NR	NR
Merphos	.09	UG/L	ND	NR	NR
Mevinphos, e isomer	.05	UG/L	ND	NR	NR
Mevinphos, z isomer	.3	UG/L	ND	NR	NR
Phorate	.04	UG/L	ND	NR	NR
Ronnel	.03	UG/L	ND	NR	NR
Stirophos	.03	UG/L	ND	ND	ND
Sulfotepp	.04	UG/L	ND	NR	NR
Tokuthion	.06	UG/L	ND	NR	NR
Trichloronate	.04	UG/L	ND	NR	NR
Total Organophosphorus Pesticides	.3	UG/L	0.7	0.0	0.1

ND=not detected
NR=not required

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER
SLUDGE PROJECT- ANNUAL SUMMARY
Organophosphorus Pesticides

From 01-JAN-2010 To 31-DEC-2010

Analyte	MDL	Units	PLR 04-MAY-2010 P515395	PLR 03-AUG-2010 P524953	PLR 05-OCT-2010 P533510
Demeton O	.15	UG/L	ND	ND	ND
Demeton S	.08	UG/L	ND	ND	ND
Diazinon	.03	UG/L	ND	ND	ND
Guthion	.15	UG/L	ND	ND	ND
Malathion	.03	UG/L	ND	ND	ND
Parathion	.03	UG/L	ND	ND	ND
Thiophosphorus Pesticides	.15	UG/L	0.00	0.00	0.00
Demeton -O, -S	.15	UG/L	0.00	0.00	0.00
Total Organophosphorus Pesticides	.3	UG/L	0.0	0.0	0.0
Bolstar	.07	UG/L	ND	NR	NR
Chlorpyrifos	.03	UG/L	ND	ND	ND
Coumaphos	.15	UG/L	ND	ND	ND
Dibrom	.2	UG/L	ND	NR	NR
Dichlofenthion	.03	UG/L	ND	NR	NR
Dichlorvos	.05	UG/L	ND	ND	ND
Dimethoate	.04	UG/L	ND	ND	ND
Disulfoton	.02	UG/L	ND	ND	ND
EPN	.09	UG/L	ND	NR	NR
Ethoprop	.04	UG/L	ND	NR	NR
Fensulfothion	.07	UG/L	ND	NR	NR
Merphos	.09	UG/L	ND	NR	NR
Mevinphos, e isomer	.05	UG/L	ND	NR	NR
Mevinphos, z isomer	.3	UG/L	ND	NR	NR
Phorate	.04	UG/L	ND	NR	NR
Ronnel	.03	UG/L	ND	NR	NR
Stirophos	.03	UG/L	ND	ND	ND
Sulfotepp	.04	UG/L	ND	NR	NR
Tokuthion	.06	UG/L	ND	NR	NR
Trichloronate	.04	UG/L	ND	NR	NR

ND=not detected
NR=not required

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

Annual 2010

Effluent

Analyte	MDL	Units	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average
Dibutyltin	7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monobutyltin	16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tributyltin	2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Influent

Analyte	MDL	Units	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average
Dibutyltin	7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monobutyltin	16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tributyltin	2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND=not detected

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL - Acid Extractables

From 01-JAN-2010 to 31-DEC-2010

Analyte	MDL	Units	PLE JAN Avg	PLE FEB Avg	PLE MAR Avg	PLE APR Avg	PLE MAY Avg	PLE JUN Avg	PLE JUL Avg	PLE AUG Avg	PLE SEP Avg	PLE OCT Avg	PLE NOV Avg	PLE DEC Avg	Average
2-chlorophenol	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	2.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	2.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-nitrophenol	1.55	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrophenol	1.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND	<1.1	ND	ND	ND	ND	ND	ND	ND	0.0
Phenol	1.76	UG/L	11.7	15.3	13.9	15.4	14.1	16.8	15.1	13.7	17.5	15.9	14.2	14.3	14.8
2,4,6-trichlorophenol	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols	1.67	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	2.16	UG/L	11.7	15.3	13.9	15.4	14.1	16.8	15.1	13.7	17.5	15.9	14.2	14.3	14.8
Phenols	2.16	UG/L	11.7	15.3	13.9	15.4	14.1	16.8	15.1	13.7	17.5	15.9	14.2	14.3	14.8
Additional Analytes Determined;															
2-methylphenol	2.15	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-methylphenol(3-MP is unresolved)	2.11	UG/L	30.0	46.8	25.7	37.1	31.8	31.6	30.4	28.5	24.8	20.8	19.9	23.6	29.3
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLR JAN Avg	PLR FEB Avg	PLR MAR Avg	PLR APR Avg	PLR MAY Avg	PLR JUN Avg	PLR JUL Avg	PLR AUG Avg	PLR SEP Avg	PLR OCT Avg	PLR NOV Avg	PLR DEC Avg	Average
2-chlorophenol	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	2.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	2.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-nitrophenol	1.55	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrophenol	1.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	1.76	UG/L	13.1	17.3	16.3	16.2	18.0	18.5	17.9	18.3	22.1	15.4	21.7	16.1	17.6
2,4,6-trichlorophenol	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols	1.67	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	2.16	UG/L	13.1	17.3	16.3	16.2	18.0	18.5	17.9	18.3	22.1	15.4	21.7	16.1	17.6
Phenols	2.16	UG/L	13.1	17.3	16.3	16.2	18.0	18.5	17.9	18.3	22.1	15.4	21.7	16.1	17.6
Additional Analytes Determined;															
2-methylphenol	2.15	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-methylphenol(3-MP is unresolved)	2.11	UG/L	32.5	43.0	34.1	39.6	36.7	41.2	40.1	37.5	41.9	31.4	44.2	27.6	37.5
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-2010 to 31-DEC-2010

Analyte	MDL	Units	PLE JAN Avg	PLE FEB Avg	PLE MAR Avg	PLE APR Avg	PLE MAY Avg	PLE JUN Avg	PLE JUL Avg	PLE AUG Avg	PLE SEP Avg	PLE OCT Avg	PLE NOV Avg	PLE DEC Avg	PLE Average
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1.29	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
Benzo[A]anthracene	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]pyrene	1.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	1.09	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chloronaphthalene	1.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	ND	ND	ND	ND	<9.0	ND	ND	ND	ND	ND	ND	0.0
Diethyl phthalate	3.05	UG/L	6.5	6.8	10.7	9.1	8.8	5.9	7.3	6.1	5.2	6.8	5.1	5.2	7.0
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	1	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
2,4-dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	1.77	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	8.96	UG/L	6.5	6.8	10.7	9.1	8.8	5.9	7.3	6.1	5.2	6.8	5.1	5.2	7.0
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	1.46	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	2.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perylene	1.41	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-2010 to 31-DEC-2010

Analyte	MDL	Units	PLR JAN Avg	PLR FEB Avg	PLR MAR Avg	PLR APR Avg	PLR MAY Avg	PLR JUN Avg	PLR JUL Avg	PLR AUG Avg	PLR SEP Avg	PLR OCT Avg	PLR NOV Avg	PLR DEC Avg	PLR Average
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1.29	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
Benzo[A]anthracene	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]pyrene	1.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	1.09	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chloronaphthalene	1.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	4.6	ND	ND	3.1	ND	ND	ND	ND	ND	ND	ND	0.6
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	12.5	11.9	11.6	23.8	11.6	9.4	ND	9.4	18.0	14.5	16.6	11.6
Diethyl phthalate	3.05	UG/L	5.7	6.8	6.8	6.9	10.0	5.2	6.2	6.2	5.8	5.5	6.6	3.7	6.3
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	1	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
2,4-dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	1.77	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	8.96	UG/L	5.7	23.9	18.7	18.5	36.9	16.8	15.6	6.2	15.2	23.5	21.1	20.3	18.5
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	1.46	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	2.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perylene	1.41	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-2010 to 31-DEC-2010

Analyte	MDL	Units	PLE JAN Avg	PLE FEB Avg	PLE MAR Avg	PLE APR Avg	PLE MAY Avg	PLE JUN Avg	PLE JUL Avg	PLE AUG Avg	PLE SEP Avg	PLE OCT Avg	PLE NOV Avg	PLE DEC Avg	PLE Average
Acrolein	1.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	0.6	0.9	0.9	0.8	ND	ND	ND	ND	ND	<0.5	1.2	0.7	0.4
Bromoform	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	0.2
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.4	ND	0.0
Chloroethane	.9	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	0.2
Chloroform	.2	UG/L	4.9	3.6	5.2	5.3	4.2	4.7	4.0	5.1	5.1	4.9	10.1	3.3	5.0
Chloromethane	.5	UG/L	5.2	3.2	1.6	4.3	2.4	4.6	2.1	4.9	4.2	4.2	23.8	2.3	5.2
Dibromochloromethane	.6	UG/L	ND	0.8	<0.6	<0.6	ND	ND	ND	ND	ND	ND	ND	0.7	0.1
1,2-dichlorobenzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-dichlorobenzene	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	.4	UG/L	<0.4	ND	0.5	<0.4	0.5	0.6	0.6	0.6	0.9	0.6	0.6	0.6	0.5
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	.3	UG/L	ND	0.3	ND	ND	ND	0.5	0.6	0.4	ND	<0.3	0.4	ND	0.2
Methylene chloride	.3	UG/L	1.7	1.3	1.6	2.3	1.2	57.6	46.6	2.1	1.5	2.2	1.6	5.3	10.4
1,1,2,2-tetrachloroethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	.4	UG/L	1.0	0.6	0.9	0.7	1.1	2.7	2.4	2.9	1.2	1.1	1.0	0.8	1.4
1,1,1-trichloroethane	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7	UG/L	5.2	3.2	1.6	4.3	2.4	4.6	2.1	4.9	4.2	4.2	25.6	2.3	5.4
Dichlorobenzenes	.5	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 Chloromethanes	.5	UG/L	11.8	8.1	8.4	11.9	7.8	66.9	52.7	12.1	10.8	11.3	35.5	10.9	20.7
Purgeable Compounds	1.3	UG/L	13.4	10.7	10.7	13.4	9.4	70.7	56.3	16.0	12.9	13.0	43.1	13.7	23.6
Acetone	4.5	UG/L	371	741	775	636	1620	696	1560	1090	449	1740	785	763	936
Allyl chloride	.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-butanone	6.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.8	ND	7.2	1.3
Carbon disulfide	.6	UG/L	2.0	1.1	1.8	2.5	2.4	3.0	2.5	10.2	4.6	3.3	7.0	2.2	3.6
Chloroprene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dibromoethane	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Iodide	.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	.4	UG/L	1.3	3.8	3.2	1.3	2.3	3.0	2.1	2.3	2.0	0.7	1.2	1.5	2.1
2-nitropropane	12	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	ND	ND	ND	ND	0.6	0.7	0.6	ND	0.5	0.6	ND	0.3
Styrene	.3	UG/L	ND	0.8	1.0	0.5	<0.3	ND	ND	ND	ND	ND	ND	ND	0.2
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	0.7	0.6	ND	ND	1.1	2.1	1.2	ND	1.0	1.2	ND	0.7
2-chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone	1.3	UG/L	ND	ND	ND	<1.3	ND	ND	ND	ND	ND	ND	ND	ND	0.0

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL Priority Pollutants Purgeables

From 01-JAN-2010 to 31-DEC-2010

Analyte	MDL	Units	PLR JAN Avg	PLR FEB Avg	PLR MAR Avg	PLR APR Avg	PLR MAY Avg	PLR JUN Avg	PLR JUL Avg	PLR AUG Avg	PLR SEP Avg	PLR OCT Avg	PLR NOV Avg	PLR DEC Avg	PLR Average
Acrolein	1.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	ND	0.6	0.5	0.8	ND	ND	ND	ND	ND	ND	ND	0.6	0.2
Bromoform	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	.2	UG/L	2.4	3.4	3.0	3.4	2.6	2.8	3.7	3.2	3.4	2.9	3.6	2.1	3.0
Chloromethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	.6	UG/L	ND	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	0.1
1,2-dichlorobenzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-dichlorobenzene	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	.4	UG/L	0.5	0.5	0.4	0.5	0.7	0.7	0.8	0.5	1.3	0.5	1.1	0.7	0.7
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	.3	UG/L	ND	ND	1.8	ND	0.8	1.8	0.7	0.4	0.7	0.9	1.0	0.5	0.7
Methylene chloride	.3	UG/L	1.2	1.2	1.3	2.0	1.3	748.0	114.0	1.5	2.9	1.7	1.6	19.4	74.7
1,1,2,2-tetrachloroethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	.4	UG/L	0.8	0.7	0.5	0.6	0.8	1.6	1.8	3.0	0.8	0.7	0.6	0.6	1.0
1,1,1-trichloroethane	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7	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	.5	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 Chloromethanes	.5	UG/L	3.6	4.6	4.3	5.4	3.9	750.8	117.7	4.7	6.3	4.6	5.2	21.5	77.7
Purgeable Compounds	1.3	UG/L	4.9	7.1	7.5	7.3	6.2	754.9	121.0	8.6	9.1	6.7	7.9	24.6	80.5
Acetone	4.5	UG/L	361	459	982	707	502	1130	1420	1160	703	1030	2890	1010	1030
Allyl chloride	.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-butanone	6.3	UG/L	ND	ND	ND	ND	6.9	ND	7.5	ND	7.3	ND	ND	6.9	2.4
Carbon disulfide	.6	UG/L	1.9	0.9	0.8	1.6	1.8	2.1	2.4	4.1	2.6	2.2	3.1	1.6	2.1
Chloroprene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dibromoethane	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Iodide	.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	.4	UG/L	1.2	4.4	2.0	1.1	0.9	2.5	1.4	1.9	0.9	0.5	0.6	0.9	1.5
2-nitropropane	12	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	ND	1.8	ND	0.9	0.9	1.1	0.5	0.5	5.4	0.5	0.9	1.0
Styrene	.3	UG/L	0.5	1.1	4.0	0.5	0.7	0.9	0.6	0.3	ND	ND	0.9	0.5	0.8
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	ND	4.5	ND	1.9	1.6	2.5	1.0	1.0	3.0	1.1	1.8	1.5
2-chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone	1.3	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
Dioxin and Furan Analysis
ANALYZED BY: Frontier Analytical Laboratories
From 01-JAN-2010 to 31-DEC-2010

Method: SW8280A				EFFLUENT	EFFLUENT TCDD	EFFLUENT	EFFLUENT TCDD	EFFLUENT	EFFLUENT TCDD
				JAN-2010	JAN-2010	FEB-2010	FEB-2010	MAR-2010	MAR-2010
Analytes	MDL	Units	Equiv.	P504896	P504896	P504388	P504388	P511471	P511471
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND	ND	ND

Method: SW8280A				EFFLUENT	EFFLUENT TCDD	EFFLUENT	EFFLUENT TCDD	EFFLUENT	EFFLUENT TCDD
				APR-2010	APR-2010	MAY-2010	MAY-2010	JUN-2010	JUN-2010
Analytes	MDL	Units	Equiv.	P513468	P513468	P515390	P515390	P522778	P522778
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
Dioxin and Furan Analysis
ANALYZED BY: Frontier Analytical Laboratories
From 01-JAN-2010 to 31-DEC-2010

Method: SW8280A				EFFLUENT	EFFLUENT TCDD
				JUL-2010	JUL-2010
Analytes	MDL	Units	Equiv.	P525975	P525975
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND
octa CDD	247	PG/L	0.001	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND
octa CDF	222	PG/L	0.001	ND	ND

Method: EPA1613				EFFLUENT	EFFLUENT TCDD	EFFLUENT	EFFLUENT TCDD	EFFLUENT	EFFLUENT TCDD
				AUG-2010	AUG-2010	SEP-2010	SEP-2010	OCT-2010	OCT-2010
Analytes	MDL	Units	Equiv.	P524948	P524948	P530839	P530839	P533505	P533505
2,3,7,8-tetra CDD	.212	PG/L	1.000	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.302	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.328	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.381	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.351	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.495	PG/L	0.010	4.80	0.048	3.0	0.030	ND	ND
octa CDD	1.02	PG/L	0.001	30.0	0.03	24.0	0.024	27.0	0.027
2,3,7,8-tetra CDF	.112	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.219	PG/L	0.050	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.232	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.162	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.167	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.185	PG/L	0.100	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.185	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.251	PG/L	0.010	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.28	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDF	.451	PG/L	0.001	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
Dioxin and Furan Analysis
ANALYZED BY: Frontier Analytical Laboratories
From 01-JAN-2010 to 31-DEC-2010

Method: EPA1613

Analytes	MDL	Units	Equiv.	EFFLUENT NOV-2010 P539664	EFFLUENT TCDD NOV-2010 P539664	EFFLUENT DEC-2010 P544952	EFFLUENT TCDD DEC-2010 P544952
2,3,7,8-tetra CDD	.212	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.302	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.328	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.381	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.351	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.495	PG/L	0.010	3.60	0.036	3.0	0.030
octa CDD	1.02	PG/L	0.001	30.0	0.03	29.0	0.029
2,3,7,8-tetra CDF	.112	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.219	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.232	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.162	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.167	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.185	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.185	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.251	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.28	PG/L	0.010	ND	ND	ND	ND
octa CDF	.451	PG/L	0.001	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
Dioxin and Furan Analysis
ANALYZED BY: Frontier Analytical Laboratories
From 01-JAN-2010 to 31-DEC-2010

Method: SW8280A				INFLUENT	INFLUENT TCDD	INFLUENT	INFLUENT TCDD	INFLUENT	INFLUENT TCDD
				FEB-2010	FEB-2010	JAN-2010	JAN-2010	MAR-2010	MAR-2010
Analytes	MDL	Units	Equiv.	P504393	P504393	P504899	P504899	P511474	P511474
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND	ND	ND

Method: SW8280A				INFLUENT	INFLUENT TCDD	INFLUENT	INFLUENT TCDD	INFLUENT	INFLUENT TCDD
				APR-2010	APR-2010	MAY-2010	MAY-2010	JUN-2010	JUN-2010
Analytes	MDL	Units	Equiv.	P513471	P513471	P515395	P515395	P522781	P522781
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
Dioxin and Furan Analysis
ANALYZED BY: Frontier Analytical Laboratories
From 01-JAN-2010 to 31-DEC-2010

Method: SW8280A				INFLUENT	INFLUENT TCDD
				JUL-2010	JUL-2010
Analytes	MDL	Units	Equiv.	P525978	P525978
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND
octa CDD	247	PG/L	0.001	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND
octa CDF	222	PG/L	0.001	ND	ND

Method: EPA1613				INFLUENT	INFLUENT TCDD	INFLUENT	INFLUENT TCDD	INFLUENT	INFLUENT TCDD
				03-AUG-2010	03-AUG-2010	03-SEP-2010	03-SEP-2010	05-OCT-2010	05-OCT-2010
Analytes	MDL	Units	Equiv.	P524953	P524953	P530842	P530842	P533510	P533510
2,3,7,8-tetra CDD	.212	PG/L	1.000	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.302	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.328	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.381	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.351	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.495	PG/L	0.010	20.0	0.200	17.0	0.170	15.0	0.150
octa CDD	1.02	PG/L	0.001	130.0	0.130	190.0	0.190	130.0	0.130
2,3,7,8-tetra CDF	.112	PG/L	0.100	ND	ND	1.10	0.110	ND	ND
1,2,3,7,8-penta CDF	.219	PG/L	0.050	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.232	PG/L	0.500	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.162	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.167	PG/L	0.100	ND	ND	3.40	0.340	4.50	0.450
1,2,3,7,8,9-hexa CDF	.185	PG/L	0.100	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.185	PG/L	0.100	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.251	PG/L	0.010	4.20	0.042	6.50	0.065	ND	ND
1,2,3,4,7,8,9-hepta CDF	.28	PG/L	0.010	ND	ND	ND	ND	ND	ND
octa CDF	.451	PG/L	0.001	8.70	0.009	17.0	0.017	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
Dioxin and Furan Analysis
ANALYZED BY: Frontier Analytical Laboratories
From 01-JAN-2010 to 31-DEC-2010

Method: EPA1613				INFLUENT	INFLUENT TCDD	INFLUENT	INFLUENT TCDD
				06-NOV-2010	06-NOV-2010	16-DEC-2010	16-DEC-2010
Analytes	MDL	Units	Equiv.	P539667	P539667	P544955	P544955
2,3,7,8-tetra CDD	.212	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.302	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.328	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.381	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.351	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.495	PG/L	0.010	18.0	0.180	23.0	0.230
octa CDD	1.02	PG/L	0.001	200.0	0.200	290.0	0.290
2,3,7,8-tetra CDF	.112	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.219	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.232	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.162	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.167	PG/L	0.100	2.60	0.260	3.10	0.310
1,2,3,7,8,9-hexa CDF	.185	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.185	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.251	PG/L	0.010	7.0	0.070	6.70	0.067
1,2,3,4,7,8,9-hepta CDF	.28	PG/L	0.010	ND	ND	ND	ND
octa CDF	.451	PG/L	0.001	19.0	0.019	18.0	0.018

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

2010
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 5, 2010	4.900,000
February 26, 2010	4,900,000
March 17, 2010	4,600,000
April 8, 2010	7,900,000
May 6, 2010	3,300,000
June 1, 2010	79,000,000
July 22, 2010	4,900,000
August 2010	19,866,667
September 2010	9,200,000
October 2010	5,600,000
November 2010	10,057,500
December 2010	2,156,000
Average	13,770,924

2010
Point Loma Treatment Plant
Coliforms

The following are the monthly Coliform results of the Point Loma Treatment Plant Effluent. The value is stated in terms of Most Probable Number (MPN) per 100 milliliters for the total and fecal coliform densities and in terms of Colony Forming Units (CFU) per 100 millilitiers for enterococcus.

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
August 2, 2010	22,000,000	3,300,000	100,000
August 5, 2010	3,300,000	330,000	18,000e
August 12, 2010	4,600,000	1,300,000	54,000
August 18, 2010	3,300,000	790,000	30,000
August 24, 2010	7,000,000	1,300,000	37,000
August 30, 2010	79,000,000	2,300,000	68,000e
Average	19,866,667	1,553,333	30,250

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
September 9, 2010	3,300,000	3,300,000	200,000
September 17, 2010	23,000,000	2,200,000	21,000
September 23, 2010	3,500,000	490,000	16,000
September 29, 2010	7,000,000	3,100,000	48,000
Average	9,200,000	2,272,500	57,000

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
October 5, 2010	7,900,000	2,300,000	47,000
October 11, 2010	1,700,000	460,000	18,000e
October 19, 2010	7,900,000	3,300,000	39,000
Octoer 29, 2010	4,900,000	1,300,000	54,000
Average	5,600,000	1,840,000	46,500

*Multiple tube Fermentation Technique (MTF) SM 9221B (Total Coliform) & SM9221E (Fecal coliform)
**Membrane Filtration (MF) – EPA 1600
—è, estimated value, plate count falls outside the acceptable range per EPA method guidelines.

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
November 4, 2010	22,000,000	3,500,000	220,000
November 10, 2010	330,000	130,000	3,000e
November 16, 2010	4,900,000	2,200,000	12,000e
November 22, 2010	13,000,000	1,300,000	42,000
Average	10,057,500	1,782,500	42,000

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
December 2, 2010	1,300,000	1,300,000	LA
December 8, 2010	7,900,000	490,000	13,000e
December 16, 2010	170,000	<18,000	1,000e
December 22, 2010	1,300,000	110,000	140,000
December 28, 2010	110,000	20,000	<1,000
Average	2,156,000	65,000	70,500

*Multiple tube Fermentation Technique (MTF) SM 9221B (Total Coliform) & SM9221E (Fecal coliform)
**Membrane Filtration (MF) – EPA 1600
—è, estimated value, plate count falls outside the acceptable range per EPA method guidelines.
LA: Lab Accident

POINT LOMA WASTEWATER TREATMENT PLANT
From 01-JAN-2010 To 31-DEC-2010

	Total Hardness		Calcium Hardness		Magnesium Hardness		Calcium		Magnesium	
MDL:	.4	mg/L	.1	mg/L	.4	mg/L	.04	mg/L	.1	mg/L
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2010	446	438	218	217	228	221	87	87	55	54
FEBRUARY -2010	445	452	219	222	226	230	88	89	55	56
MARCH -2010	457	445	221	217	236	228	89	87	57	55
APRIL -2010	478	477	238	238	241	240	95	95	58	58
MAY -2010	449	453	214	215	235	238	86	86	57	58
JUNE -2010	420	429	203	207	217	222	81	83	53	54
JULY -2010	449	449	209	209	240	240	84	84	58	58
AUGUST -2010	458	471	223	229	235	243	89	92	57	59
SEPTEMBER-2010	447	444	221	219	226	226	89	88	55	55
OCTOBER -2010	436	440	207	209	229	231	83	84	56	56
NOVEMBER -2010	470	463	231	228	239	234	93	91	58	57
DECEMBER -2010	496	493	244	243	252	250	98	97	61	61
Average:	454	455	221	221	234	234	89	89	57	57

	Alkalinity		Total Solids		Total Vol. Solids		Conductivity		Fluoride	
MDL:	20	mg/L	10	mg/L	100	mg/L	10umhos/cm		.05	mg/L
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2010	302	285	2060	1770	530	275	2960	2990	0.87	0.99
FEBRUARY -2010	293	279	1940	1700	525	300	2860	2880	0.80	0.68
MARCH -2010	342	261	2060	1700	522	312	2910	2850	0.82	0.84
APRIL -2010	309	295	2060	1810	522	293	3010	3030	0.91	0.93
MAY -2010	288	283	2110	1790	562	279	3010	3070	0.89	0.91
JUNE -2010	275	268	1890	1660	482	278	2830	2860	0.56	0.71
JULY -2010	293	282	2100	1820	567	314	3040	3060	0.53	0.63
AUGUST -2010	305	301	2020	1720	512	280	3000	3020	0.90	0.93
SEPTEMBER-2010	298	287	2080	1850	500	297	3110	3120	0.72	0.83
OCTOBER -2010	284	272	2000	1750	529	295	2930	2980	0.88	0.85
NOVEMBER -2010	302	288	2050	1760	528	285	2980	2990	0.64	0.72
DECEMBER -2010	309	295	2120	1830	520	279	3050	3060	0.92	0.88
Average:	300	283	2041	1763	525	291	2974	2993	0.79	0.83

	Chloride		Bromide		Sulfate		Nitrate		Ortho Phosphate	
MDL:	7	mg/L	.1	mg/L	9	mg/L	.04	mg/L	.2	mg/L
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2010	587	582	1.53	1.46	272	264	0.15	0.24	4.42	3.09
FEBRUARY -2010	563	587	1.25	1.29	244	239	0.20	0.19	6.70	5.02
MARCH -2010	592	594	1.45	1.36	259	249	0.11	0.25	4.97	4.27
APRIL -2010	600	618	1.57	1.57	305	298	0.17	0.35	3.99	3.09
MAY -2010	629	648	1.57	1.55	249	241	0.15	0.08	7.12	5.83
JUNE -2010	534	587	1.24	1.40	227	225	0.11	0.51	4.88	3.28
JULY -2010	638	663	1.58	1.53	235	229	0.09	0.32	6.35	5.53
AUGUST -2010	599	638	1.44	1.63	261	256	0.17	0.36	4.50	3.35
SEPTEMBER-2010	608	623	1.41	1.56	300	296	0.18	0.65	4.91	4.35
OCTOBER -2010	600	625	1.65	1.72	240	231	0.09	0.57	5.49	4.79
NOVEMBER -2010	586	604	1.35	1.40	257	252	0.07	0.05	6.02	4.61
DECEMBER -2010	606	622	1.68	1.58	306	299	0.21	0.29	4.17	3.01
Average:	595	616	1.48	1.50	263	257	0.14	0.32	5.29	4.19

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

POINT LOMA WASTEWATER TREATMENT PLANT
From 01-JAN-2010 To 31-DEC-2010

	Lithium		Sodium		Potassium		Chemical Oxygen Demand		Soluble BOD	
MDL:	.002	mg/L	1	mg/L	.3	mg/L	18	mg/L	2	mg/L
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2010	0.046	0.047	366	360	24.6	24.2	549	206	69	64
FEBRUARY -2010	0.043	0.045	369	385	27.7	27.7	591	225	79	74
MARCH -2010	0.039	0.039	369	370	24.6	24.6	577	222	65	64
APRIL -2010	0.049	0.050	380	388	25.1	25.0	589	212	70	68
MAY -2010	0.046	0.048	395	409	28.8	29.0	537	162	77	74
JUNE -2010	0.039	0.041	349	368	25.3	25.8	601	240	73	70
JULY -2010	0.042	0.042	403	415	29.5	29.5	600	205	77	70
AUGUST -2010	0.045	0.046	392	411	28.3	28.5	602	249	77	76
SEPTEMBER-2010	0.051	0.048	358	366	24.0	23.8	525	213	65	70
OCTOBER -2010	0.041	0.042	380	391	27.4	27.4	503	186	70	67
NOVEMBER -2010	0.048	0.049	395	399	28.3	28.4	627	231	75	70
DECEMBER -2010	0.047	0.048	391	400	25.7	25.8	562	215	65	68
Average:	0.04	0.05	379	389	26.6	26.6	572	214	72	70

	Total Disolved Solids		Floatables		Turbidity		01		Barium	
MDL:	28	mg/L	1.4	mg/L	.13	NTU	47	ug/L	.039	ug/L
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2010	1720	1730	<1.4	<1.4	136	36	1040	189	109	47
FEBRUARY -2010	1640	1650	<1.4	ND	136	41	635	143	78	41
MARCH -2010	1560	1550	<1.4	ND	129	37	1040	198	93	42
APRIL -2010	1720	1730	1.4	ND	136	34	1090	218	116	48
MAY -2010	1710	1710	<1.4	ND	135	41	964	144	96	40
JUNE -2010	1600	1610	ND	ND	134	38	1050	196	95	40
JULY -2010	1730	1740	<1.4	ND	134	40	918	190	88	41
AUGUST -2010	1690	1700	<1.4	ND	136	37	1030	168	106	40
SEPTEMBER-2010	1770	1780	<1.4	ND	138	37	1020	179	105	45
OCTOBER -2010	1640	1650	<1.4	ND	131	39	1070	173	95	39
NOVEMBER -2010	1680	1680	<1.4	ND	138	40	1160	145	107	44
DECEMBER -2010	1670	1680	1.5	ND	140	36	959	187	99	46
Average:	1678	1684	0.2	0.0	135	38	998	178	99	43

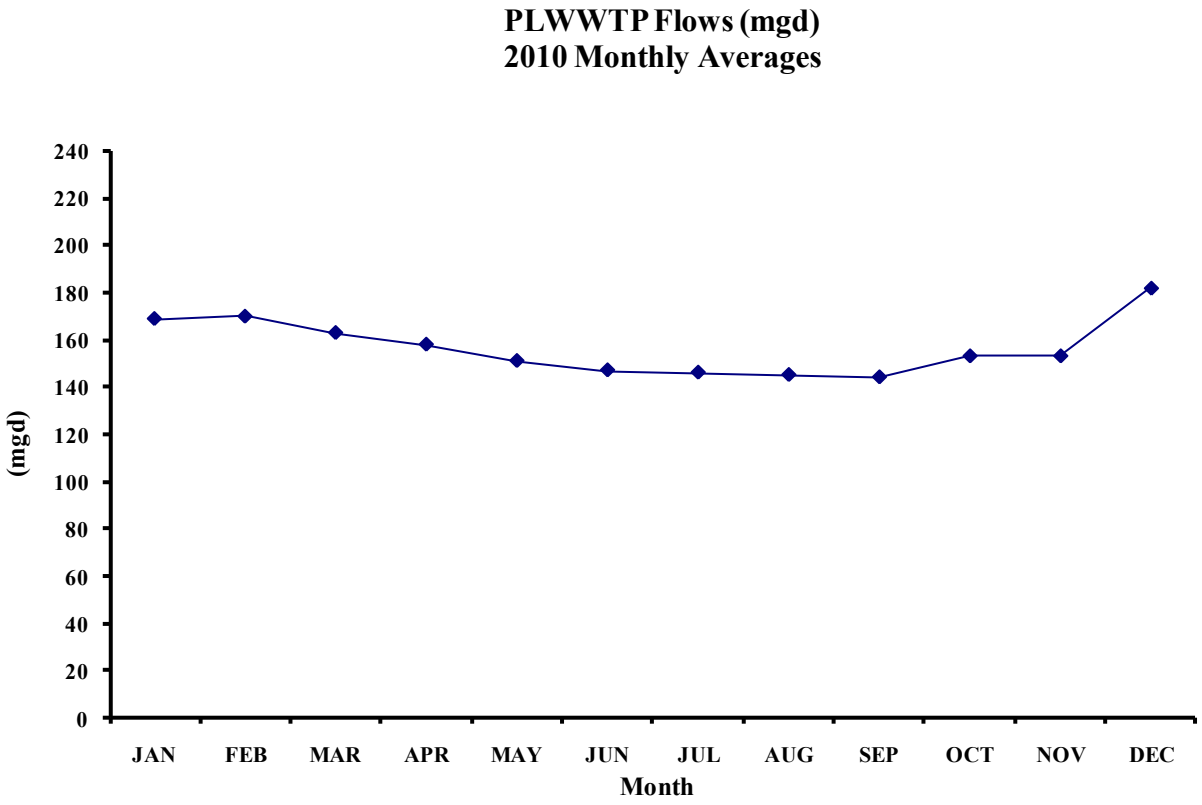
	Boron		Cobalt		Molybdenum		Manganese		Vanadium	
MDL:	7	ug/L	.85	ug/L	.89	ug/L	.24	ug/L	.64	ug/L
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2010	384	412	1.03	<0.85	11	8	123	106	4.66	1.64
FEBRUARY -2010	417	393	<0.85	ND	9	7	106	105	2.32	ND
MARCH -2010	376	390	1.24	<0.85	11	8	130	115	6.44	2.36
APRIL -2010	412	379	1.43	<0.85	11	9	123	108	4.51	0.90
MAY -2010	435	397	1.17	<0.85	12	9	120	112	3.85	1.15
JUNE -2010	426	422	1.09	<0.85	9	7	109	107	4.00	1.42
JULY -2010	445	452	<0.85	<0.85	11	8	105	100	2.71	<0.64
AUGUST -2010	433	452	<0.85	ND	10	9	131	123	4.35	1.05
SEPTEMBER-2010	387	393	1.46	0.89	10	9	119	106	4.22	1.15
OCTOBER -2010	414	428	<0.85	ND	13	11	128	113	4.57	1.01
NOVEMBER -2010	390	406	1.35	<0.85	11	8	116	105	4.70	0.77
DECEMBER -2010	424	434	0.91	<0.85	10	8	117	107	3.88	1.13
Average:	412	413	0.81	0.07	11	8	119	109	4.18	1.05

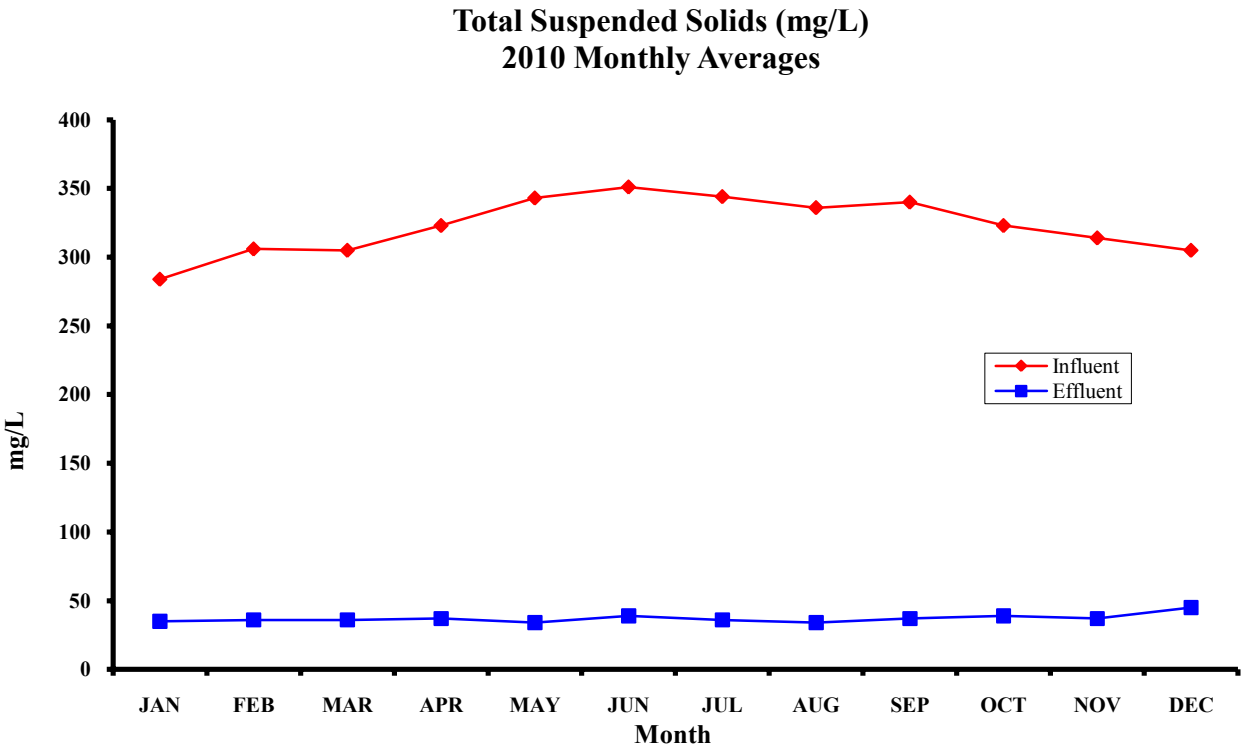
ND=not detected; NS=not sampled; NA=not analyzed

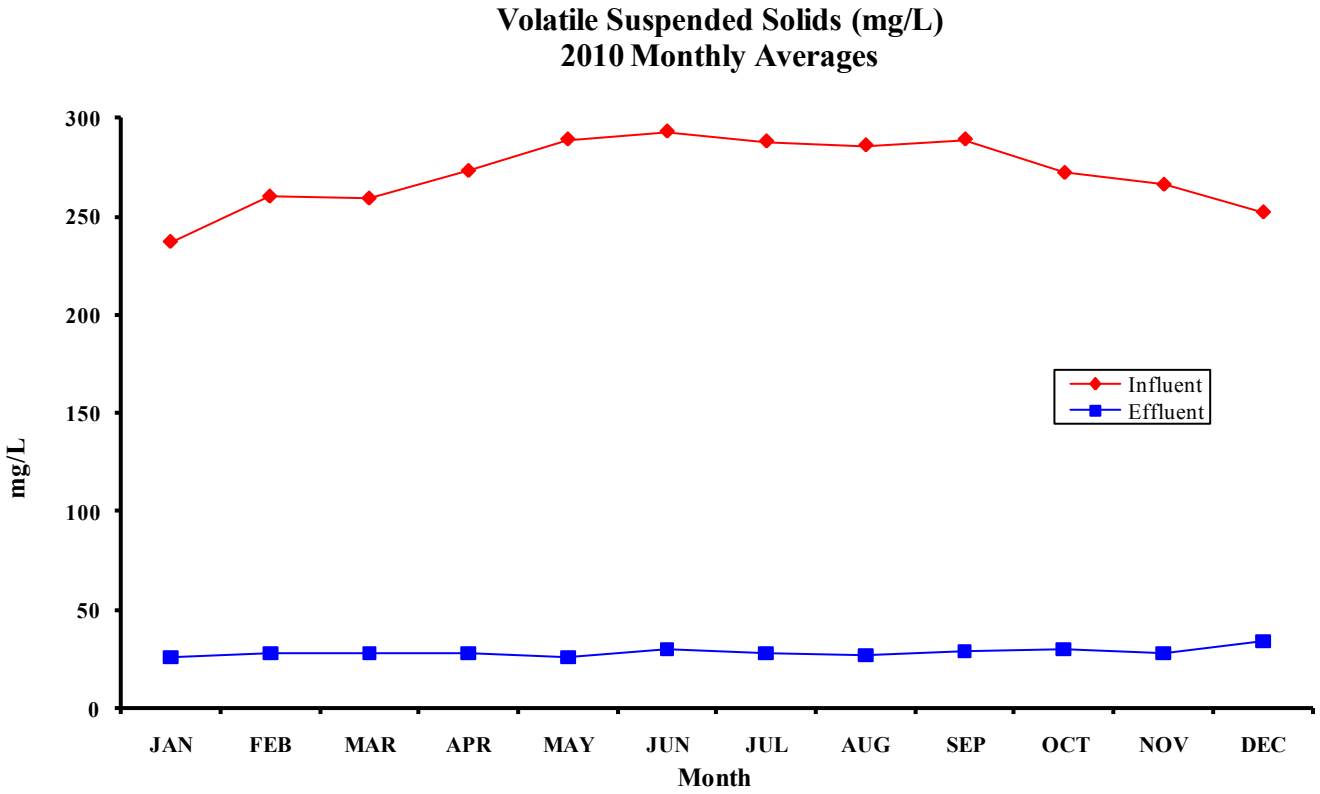
D. Influent and Effluent Graphs

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

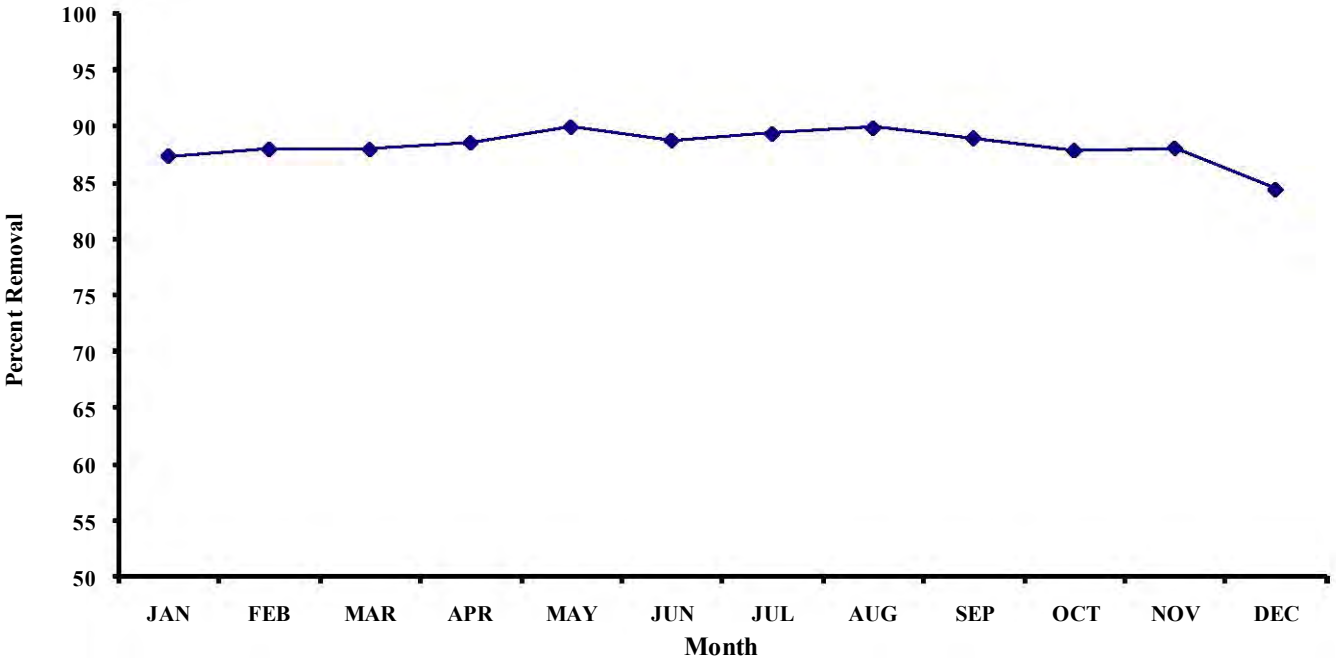
Where possible, the influent and effluent values of a given parameter have been included on the same graph so that removals and other relationships are readily apparent. Please note that many of the graphs are on expanded scales. That is, they may not go to zero concentrations but show, in magnified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



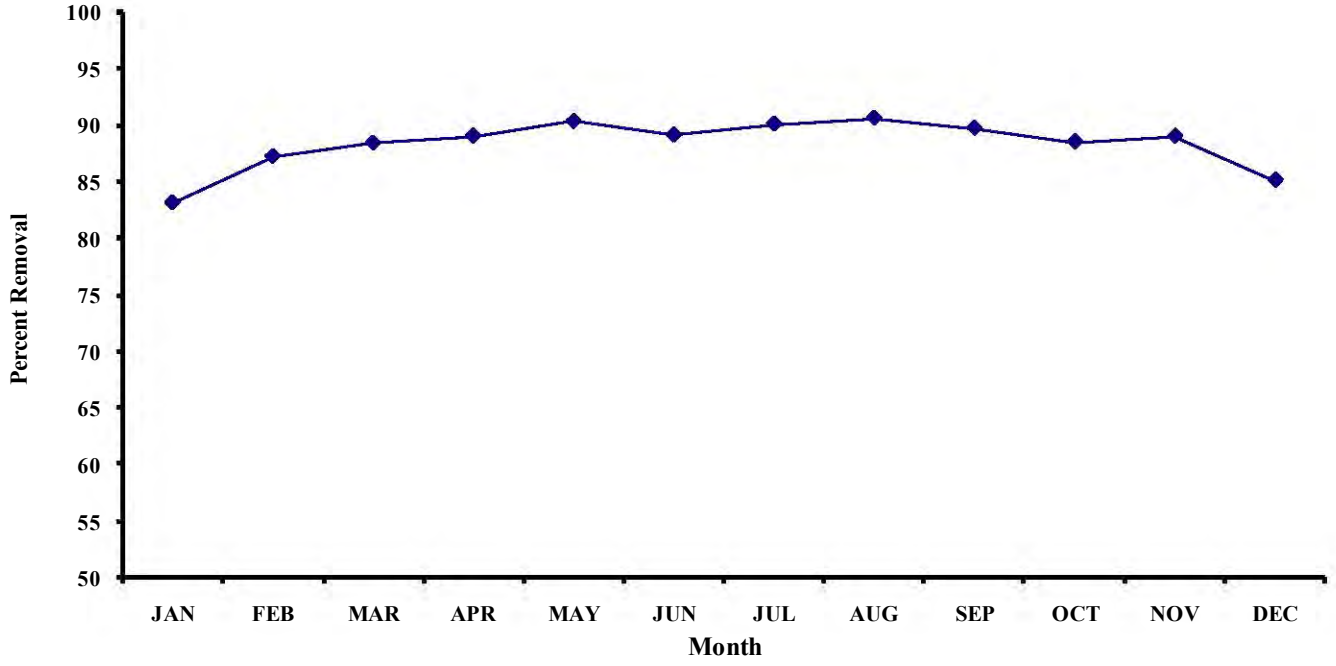

Total Suspended Solids (mg/L)
2010 Monthly Averages
400
350
300
250
200
150
100
50
0
mg/L
Influent
Effluent
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
Month


Volatile Suspended Solids (mg/L)
2010 Monthly Averages
300
250
200
150
100
50
0
mg/L
Influent
Effluent
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
Month

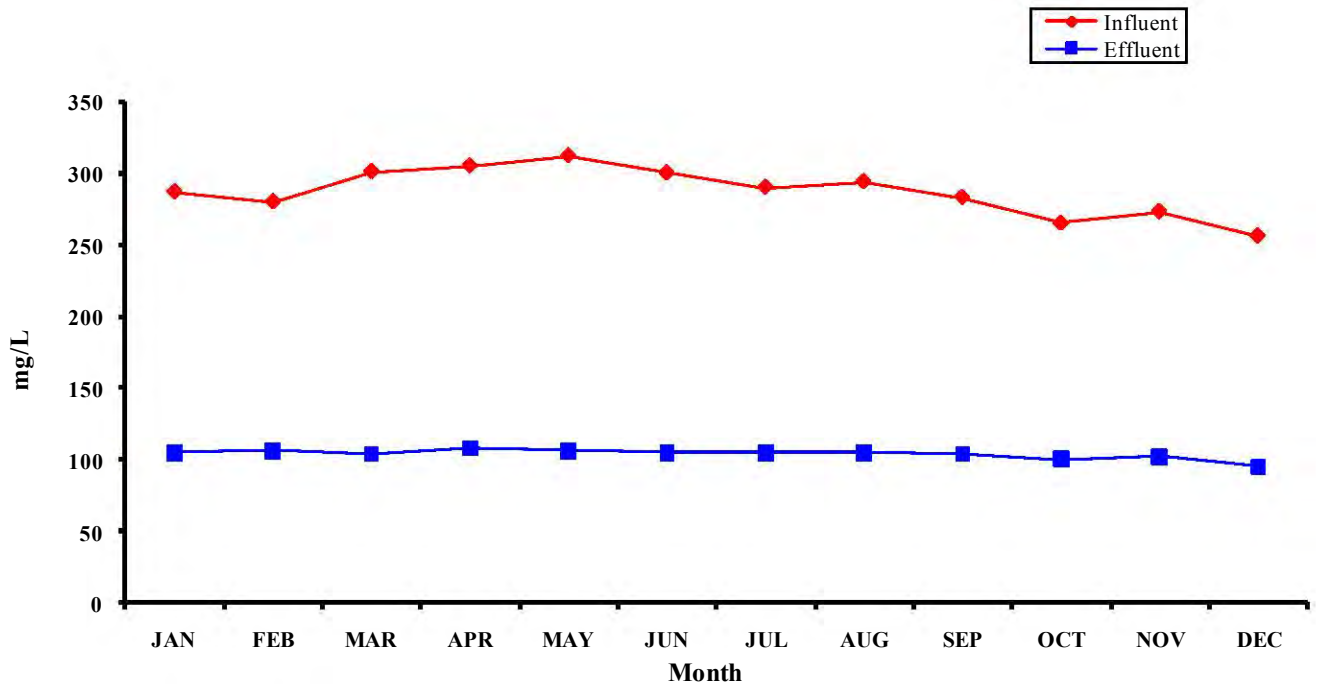
Total Suspended Solids (%) Removal
2010 Monthly Averages



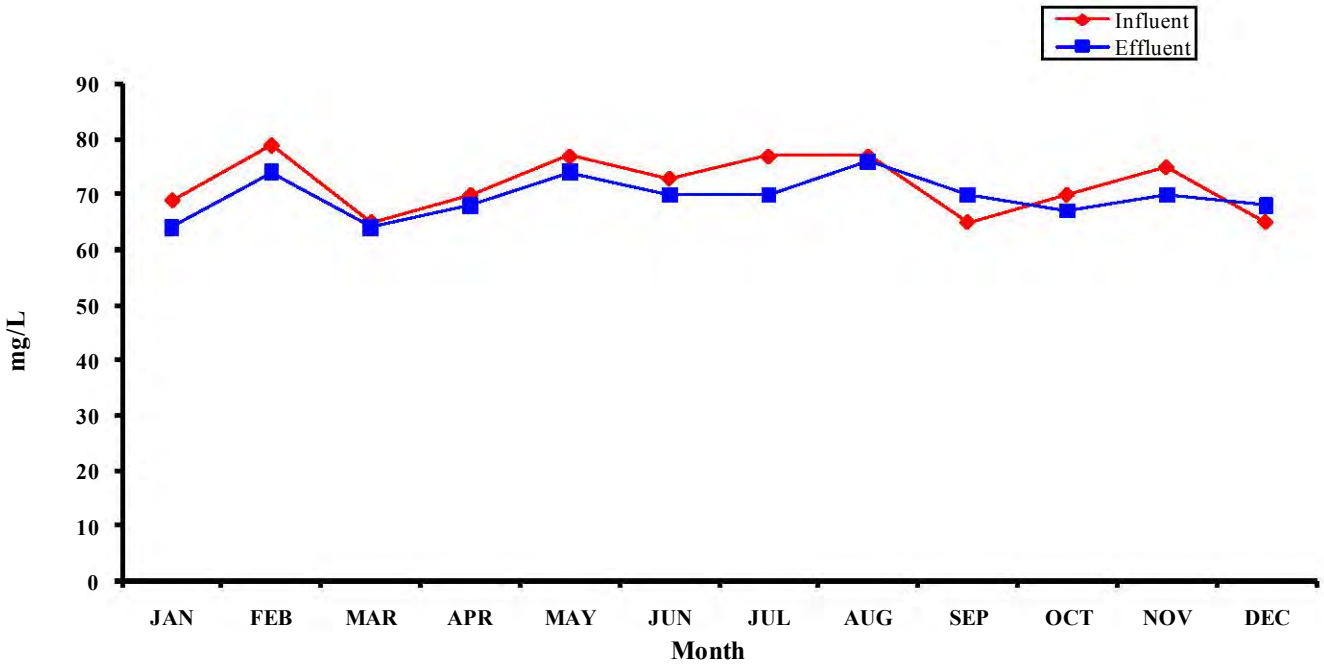
Total Suspended Solids (%) Removal
2010 Monthly Averages Systemwide



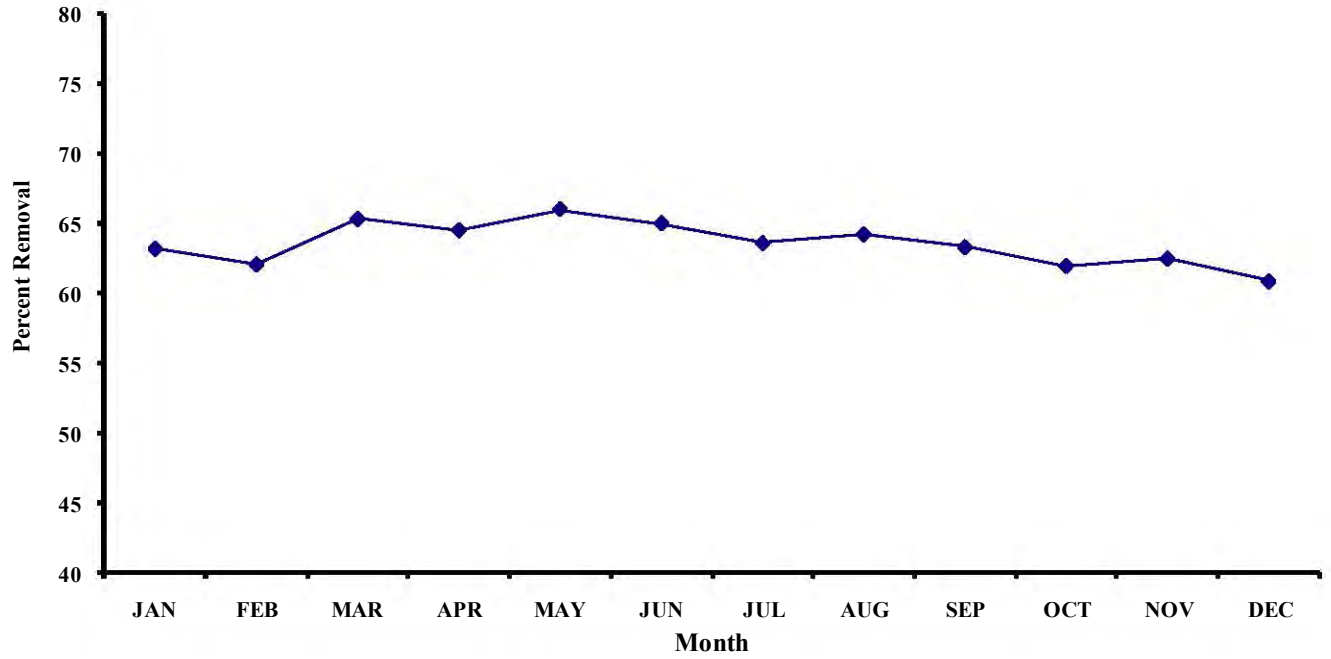
Biochemical Oxygen Demand
2010 Monthly Averages



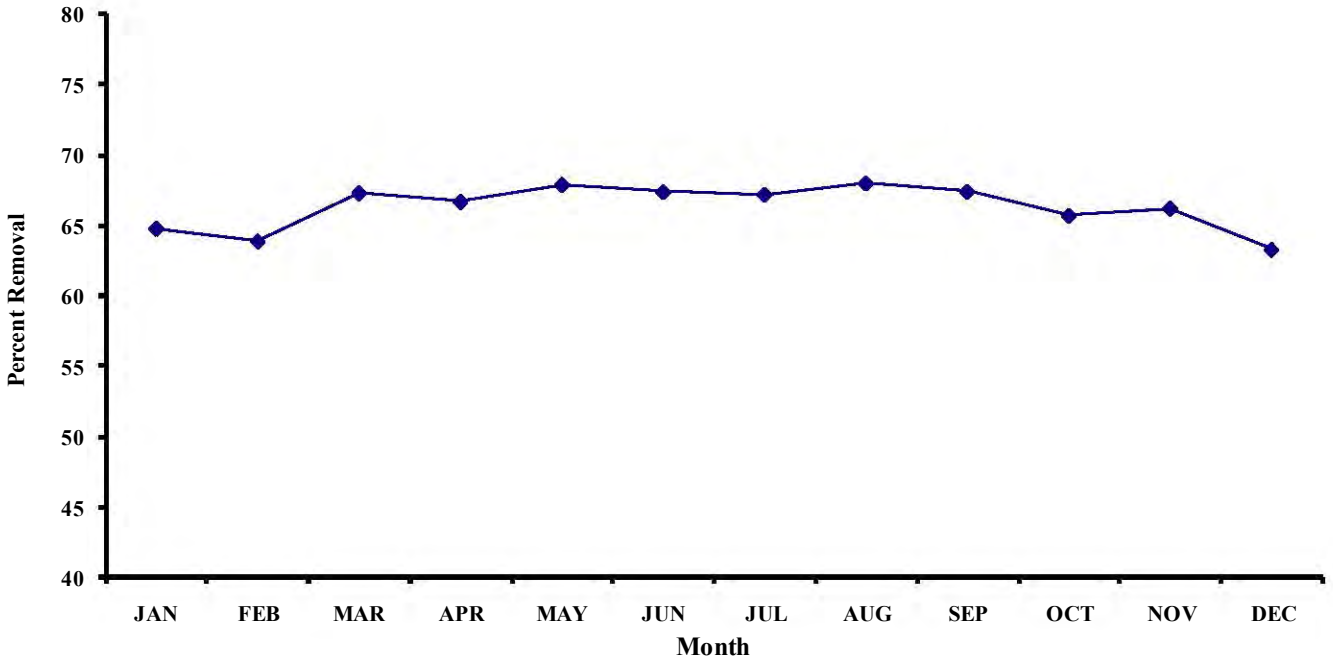
Soluble Biochemical Oxygen Demand
2010 Monthly Averages



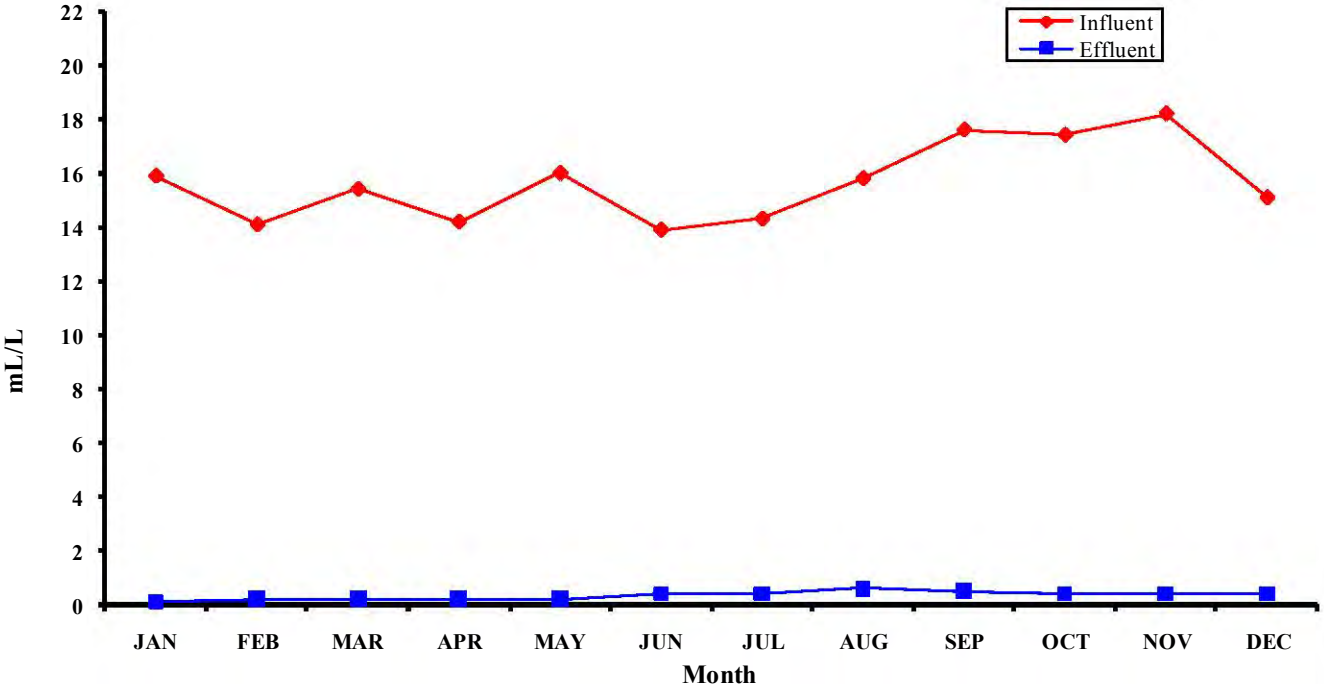
Biochemical Oxygen Demand (%) Removal
2010 Monthly Averages



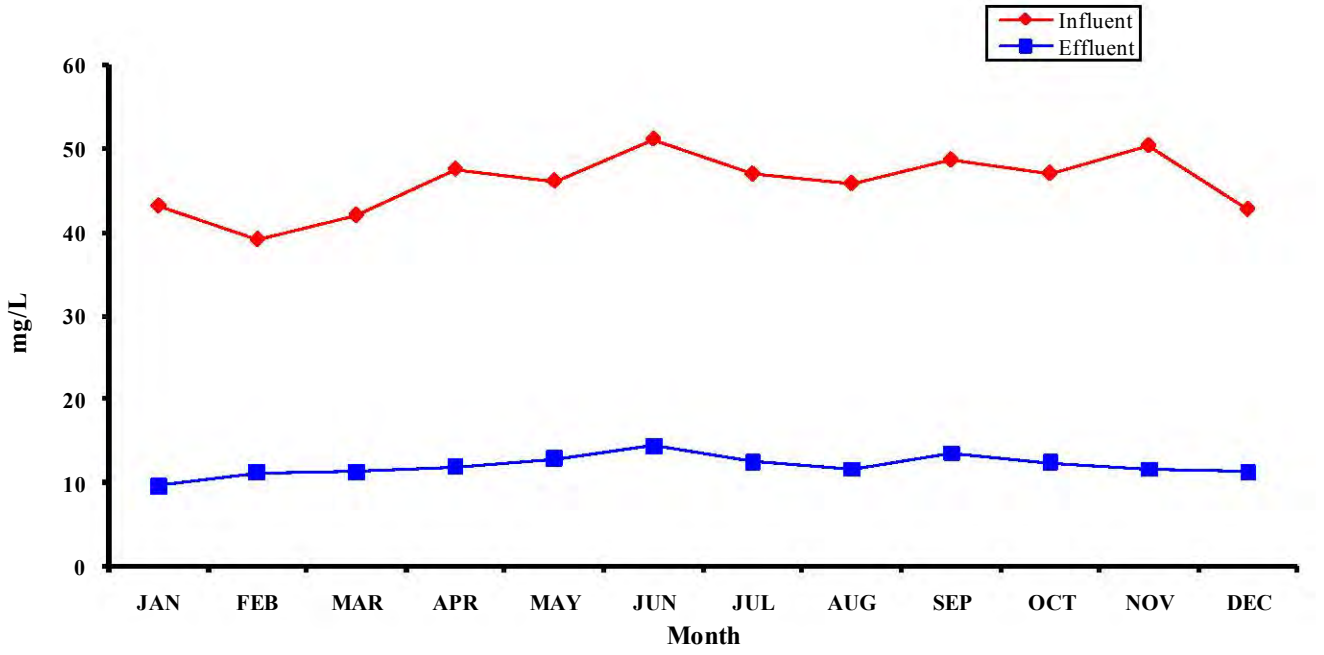
Biochemical Oxygen Demand (%) Removal
2010 Monthly Averages Systemwide



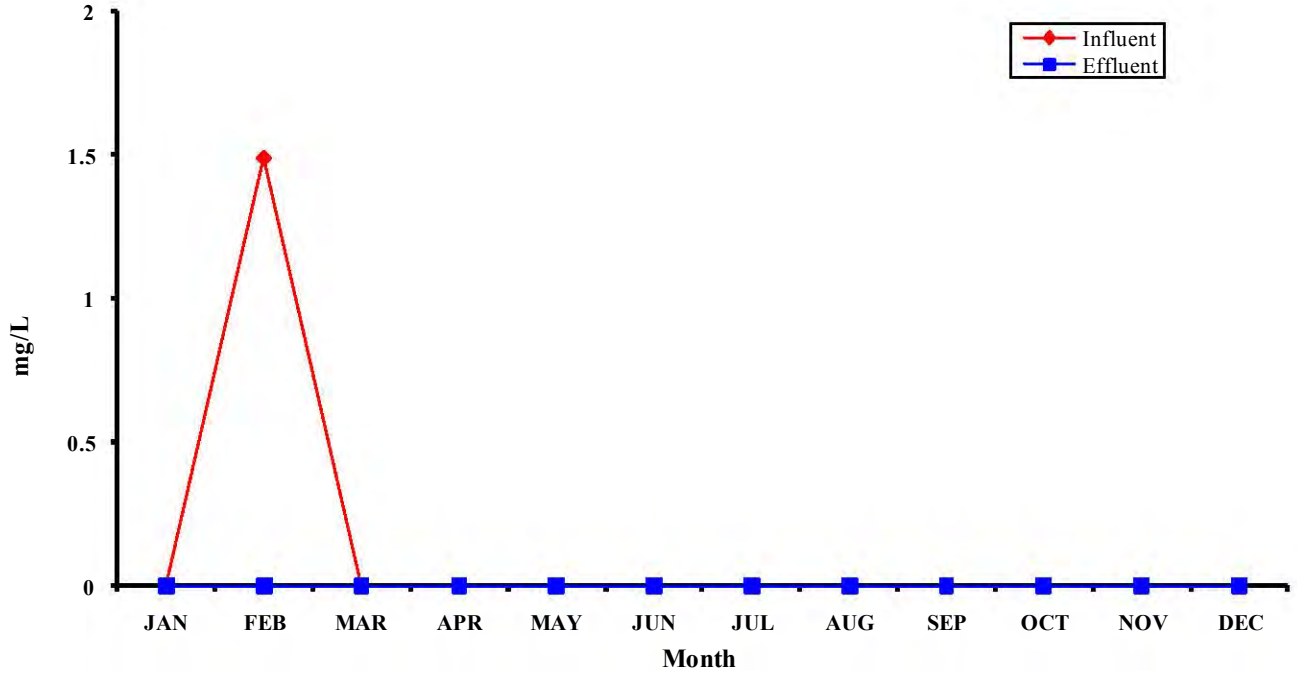
Settleable Solids (mL/L)
2010 Monthly Averages



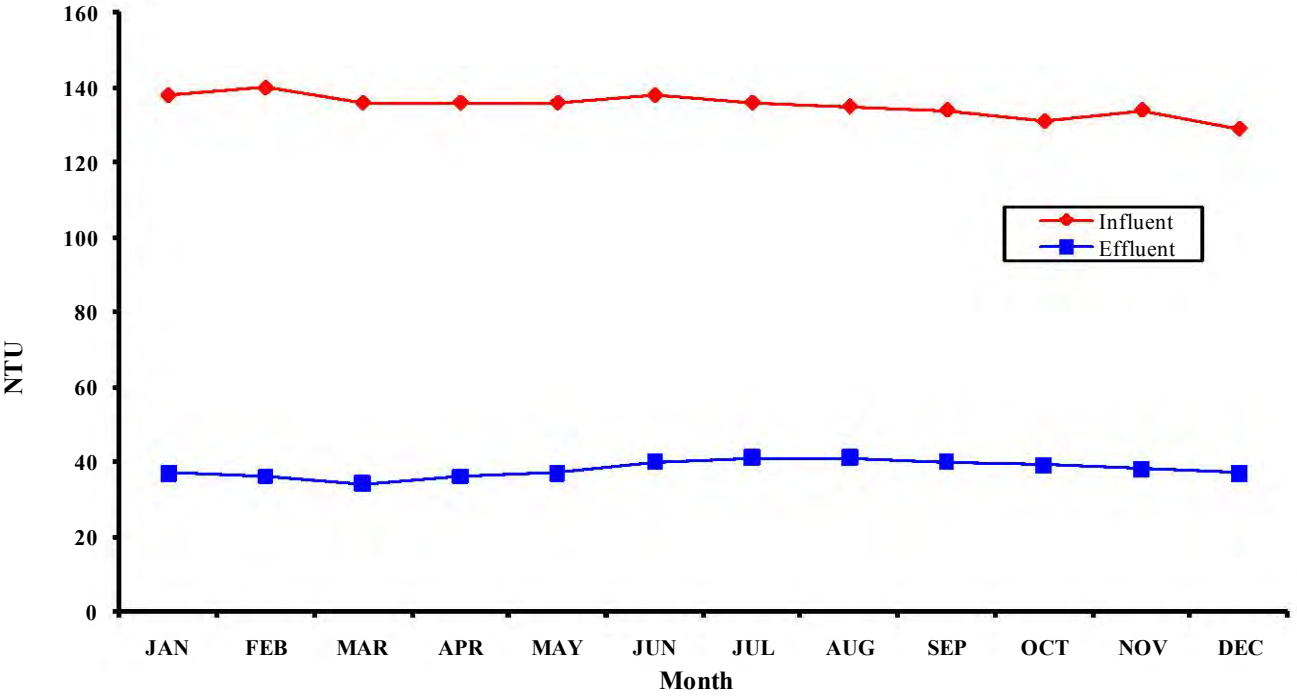
Hexane Extractable Material (mg/L)
2010 Monthly Averages



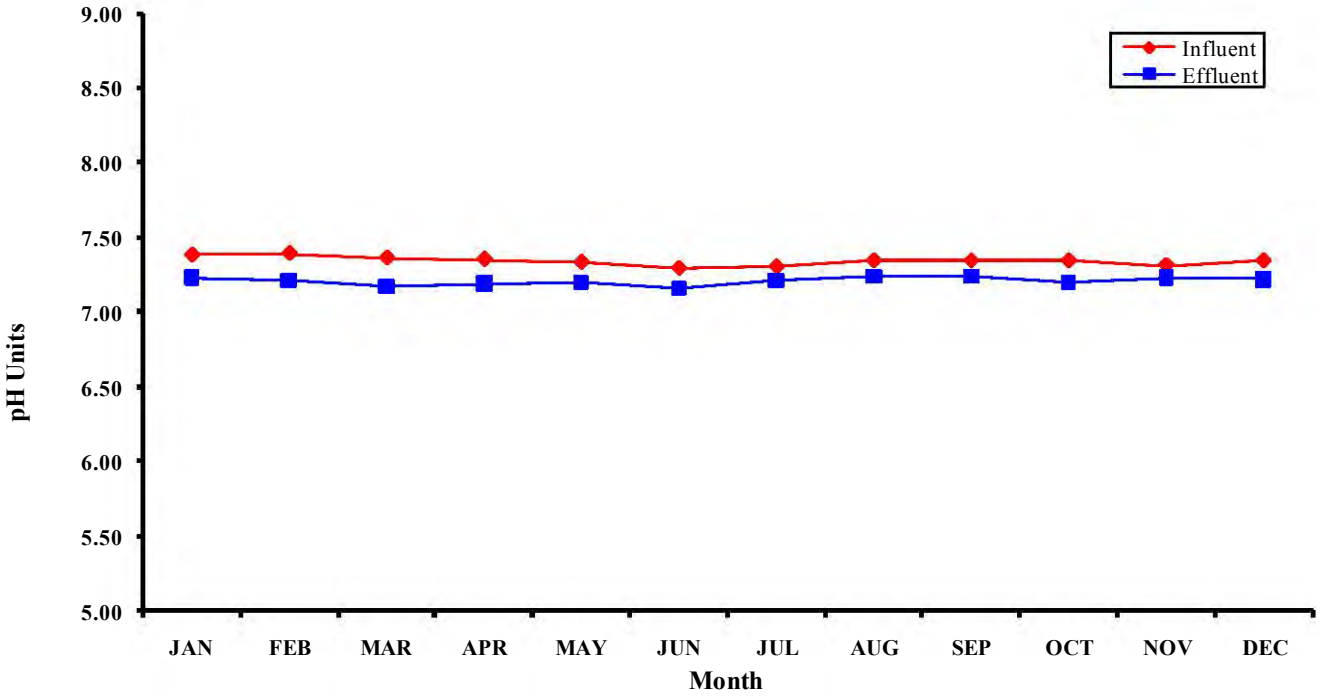
Floatables (mg/L)
2010 Monthly Averages



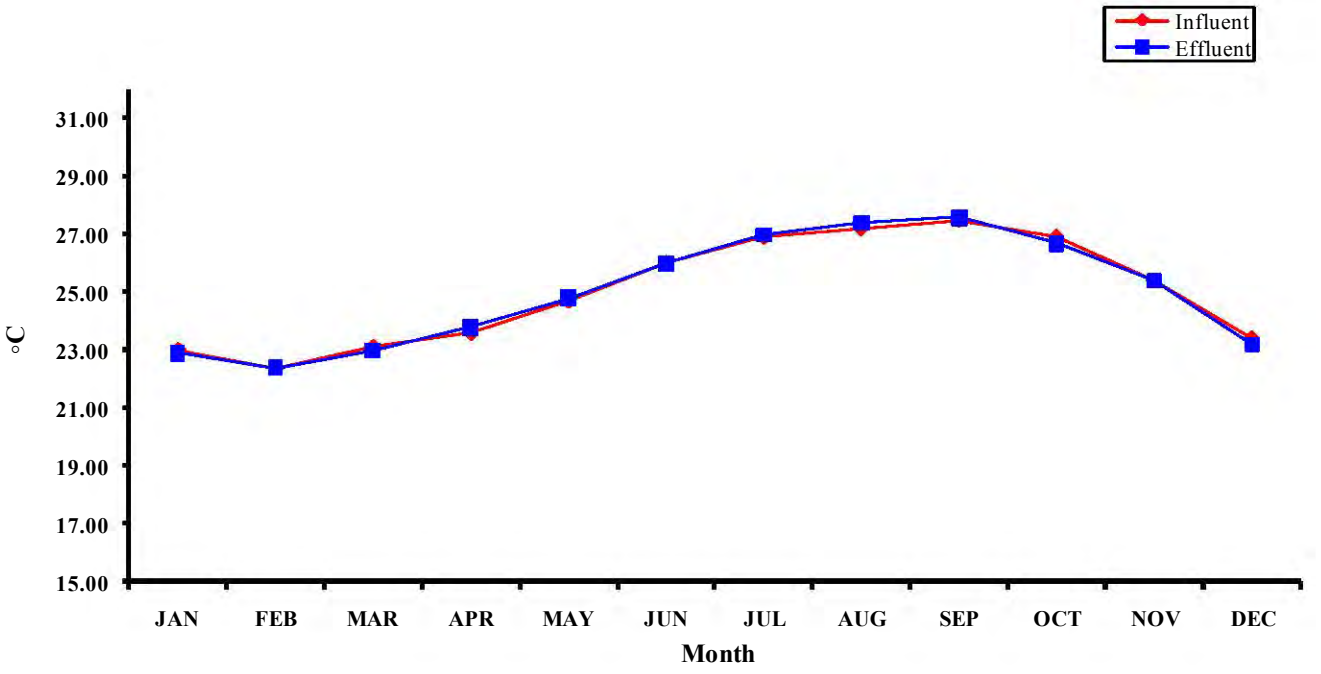
Turbidity (NTU)
2010 Monthly Averages



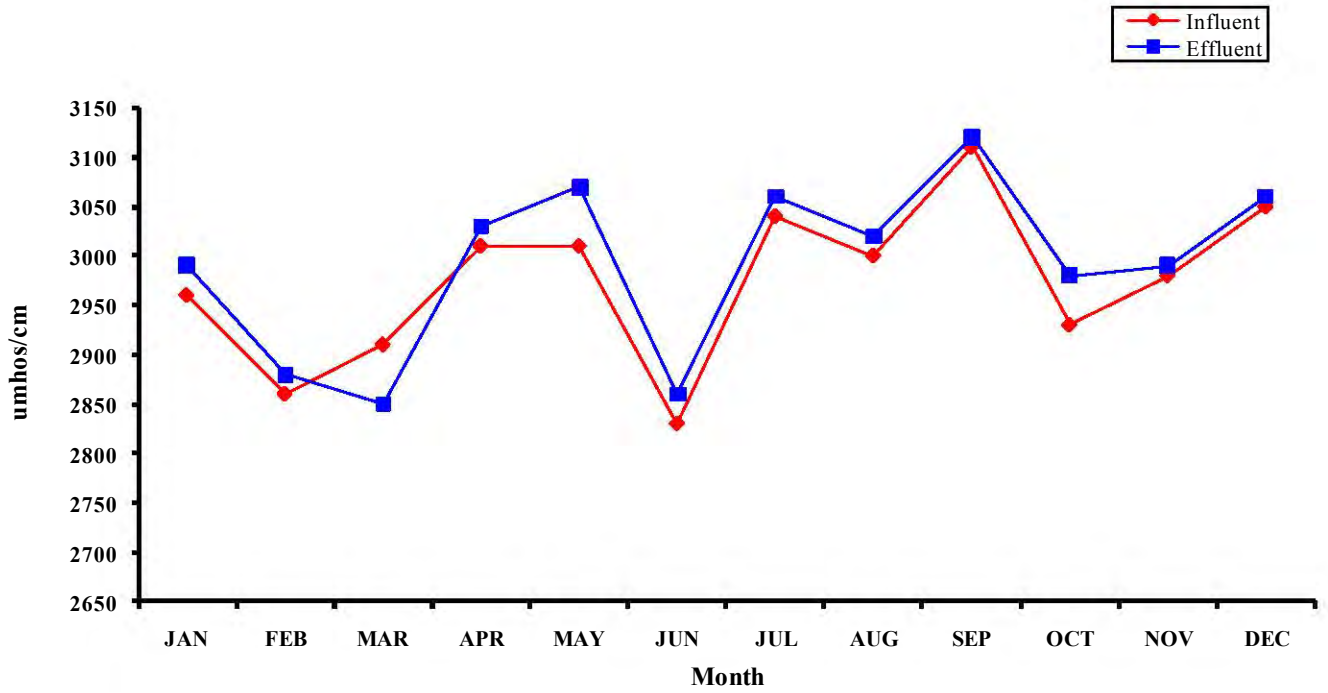
pH
2010 Monthly Averages



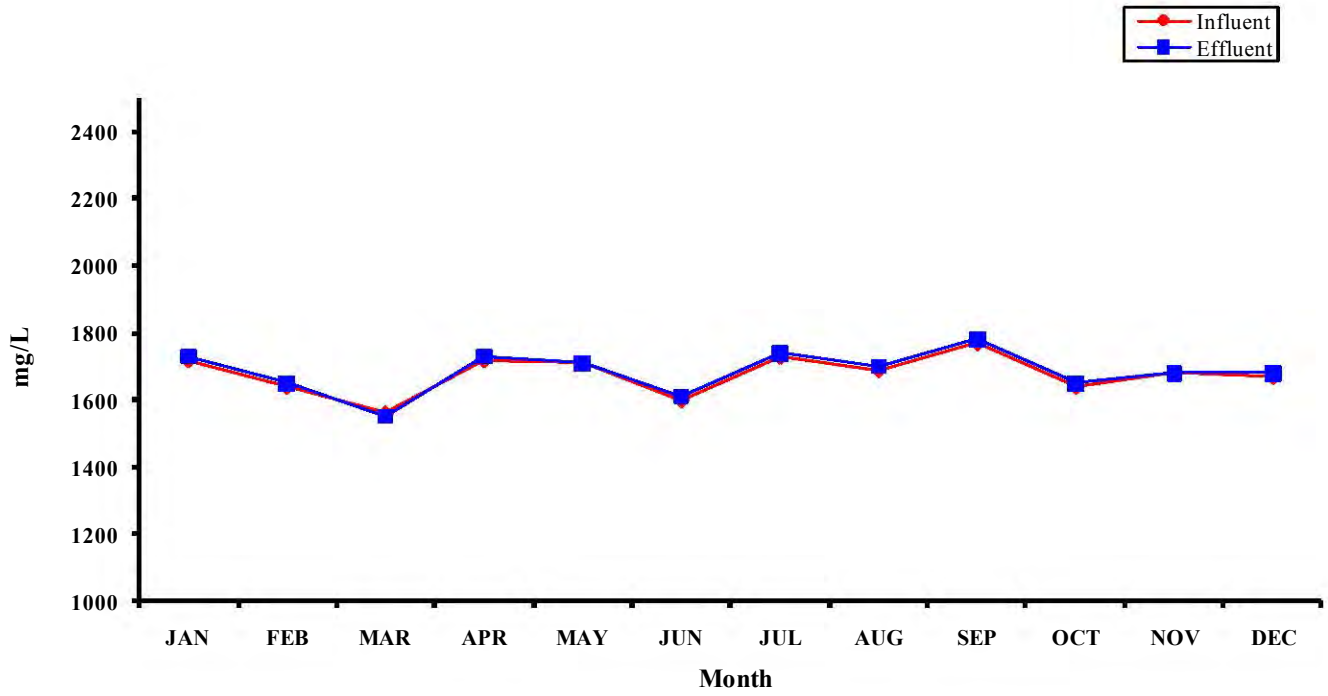
Temperature (°C)
2010 Monthly Averages



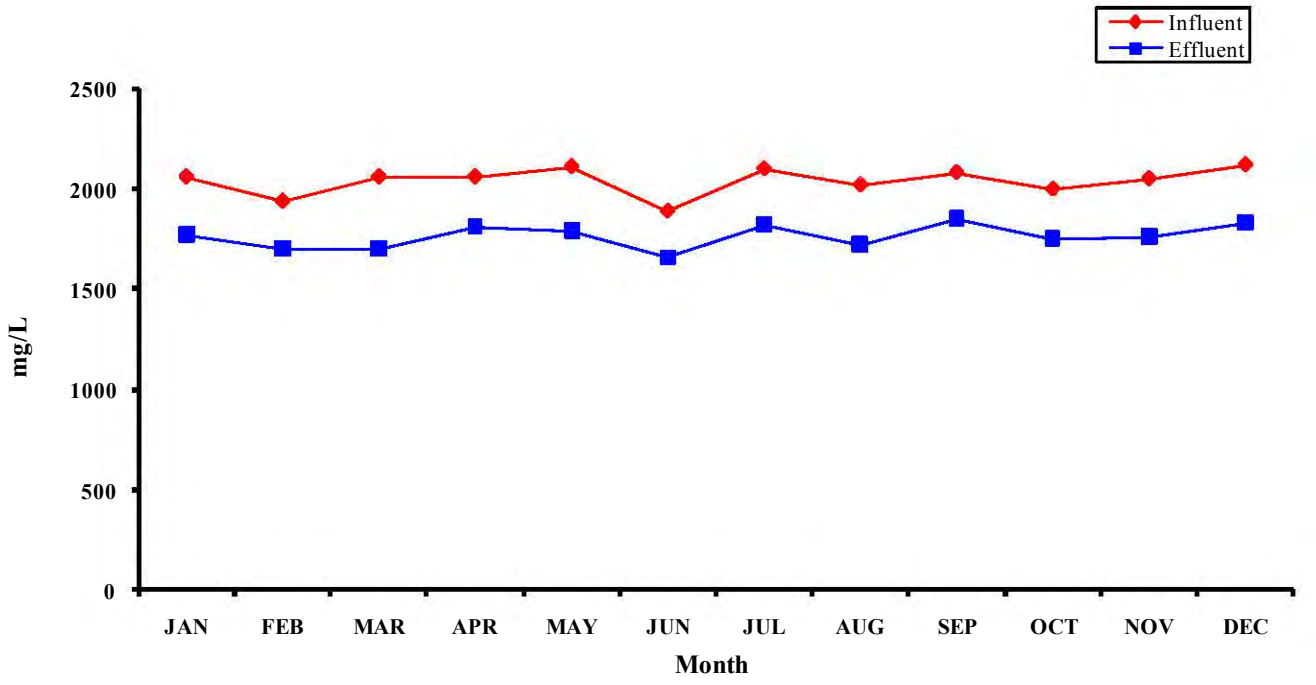
Conductivity (umhos/cm)
2010 Monthly Averages



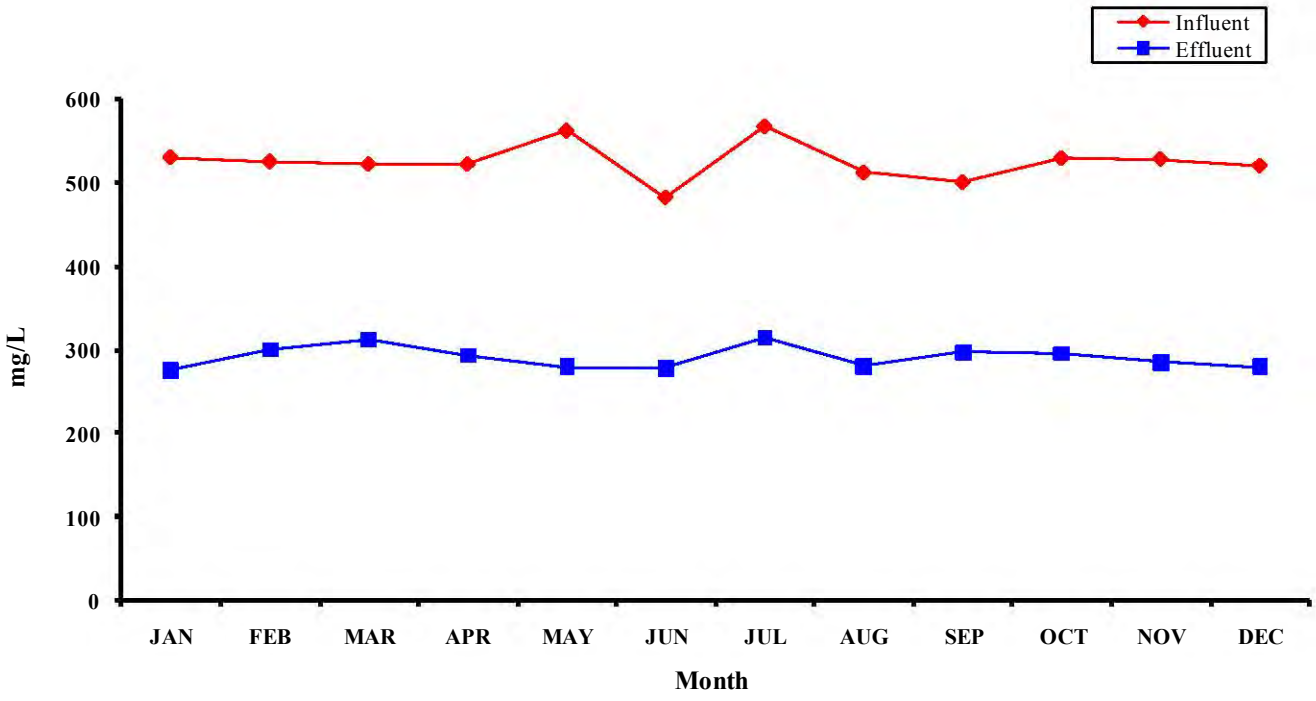
Total Dissolved Solids (mg/L)
2010 Monthly Averages



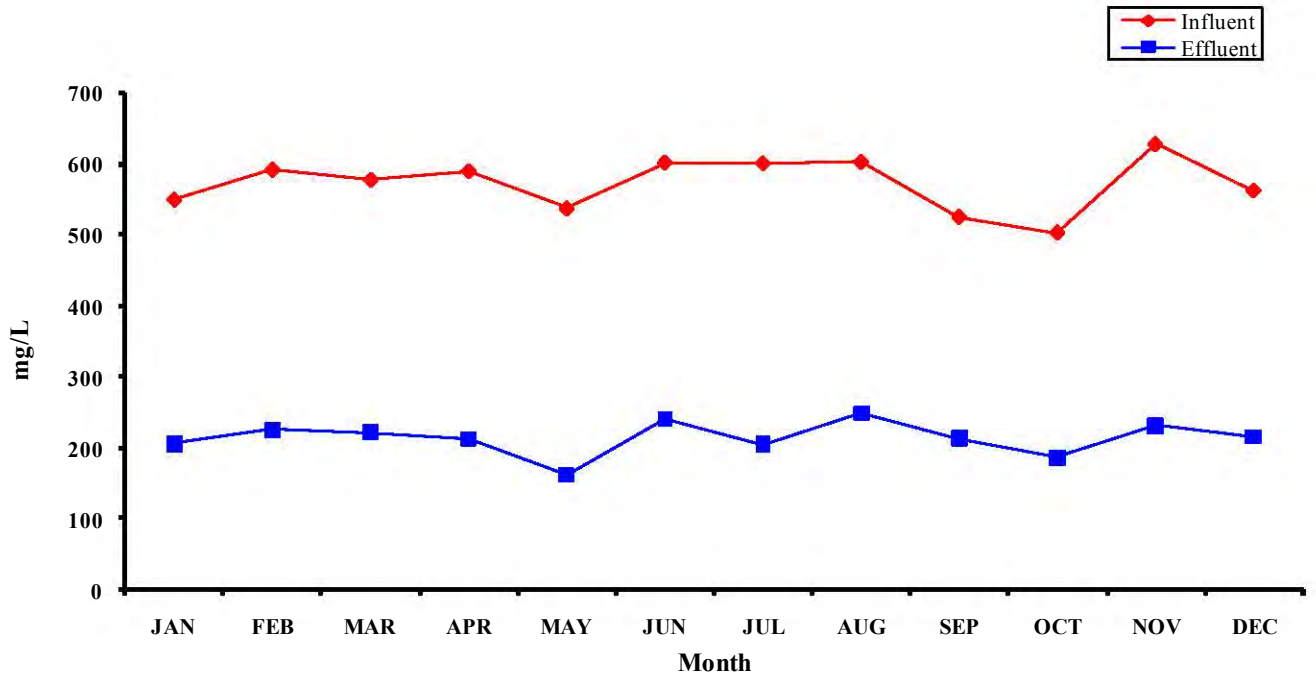
Total Solids (mg/L)
2010 Monthly Averages



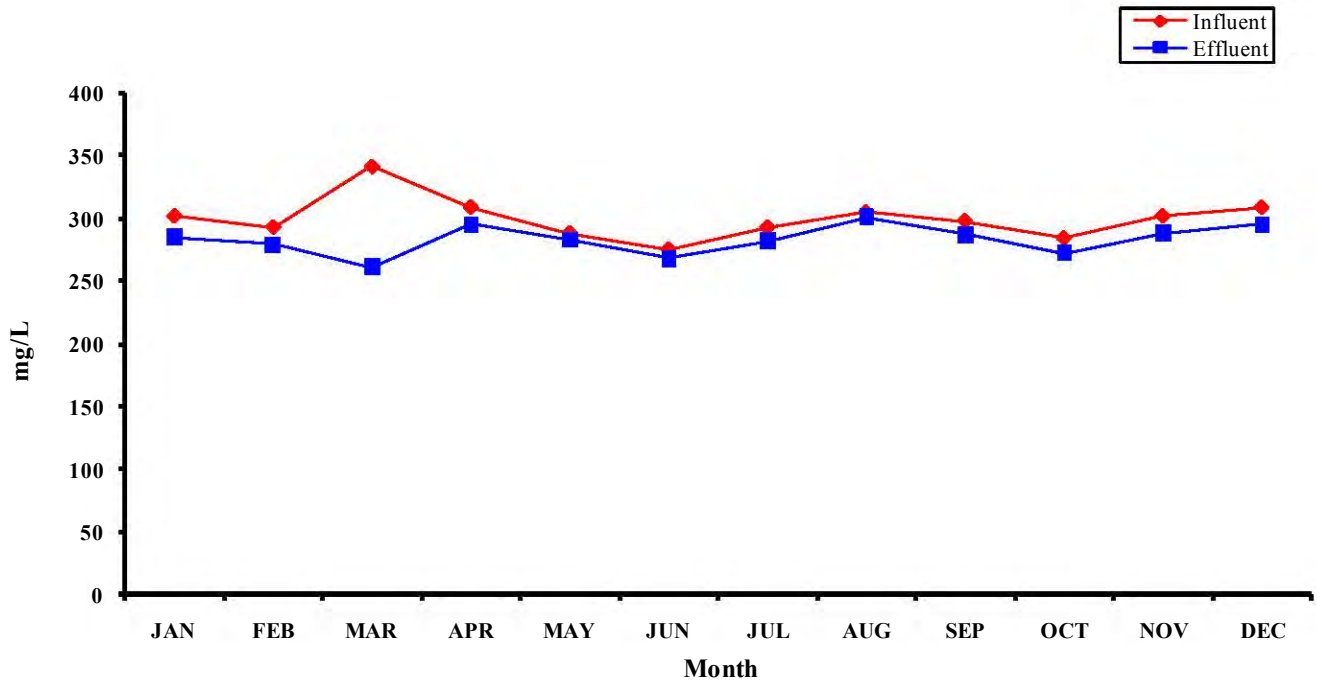
Total Volatile Solids (mg/L)
2010 Monthly Averages



Chemical Oxygen Demand (mg/L)
2010 Monthly Averages

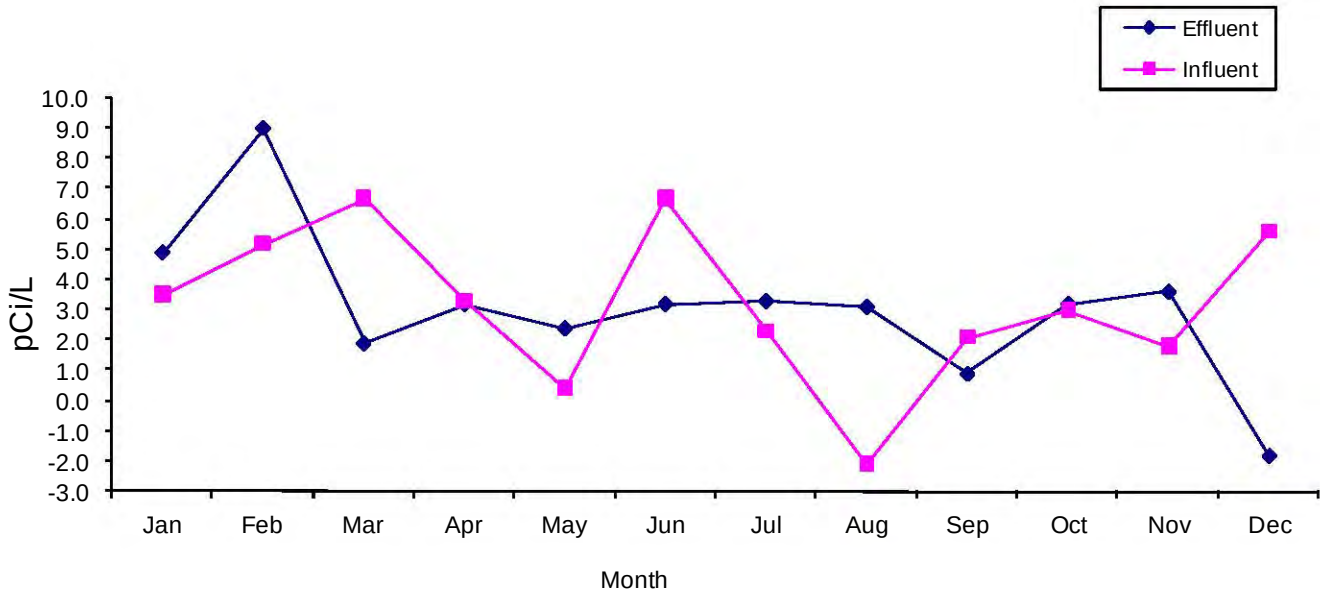


Alkalinity (mg/L)
2010 Monthly Averages



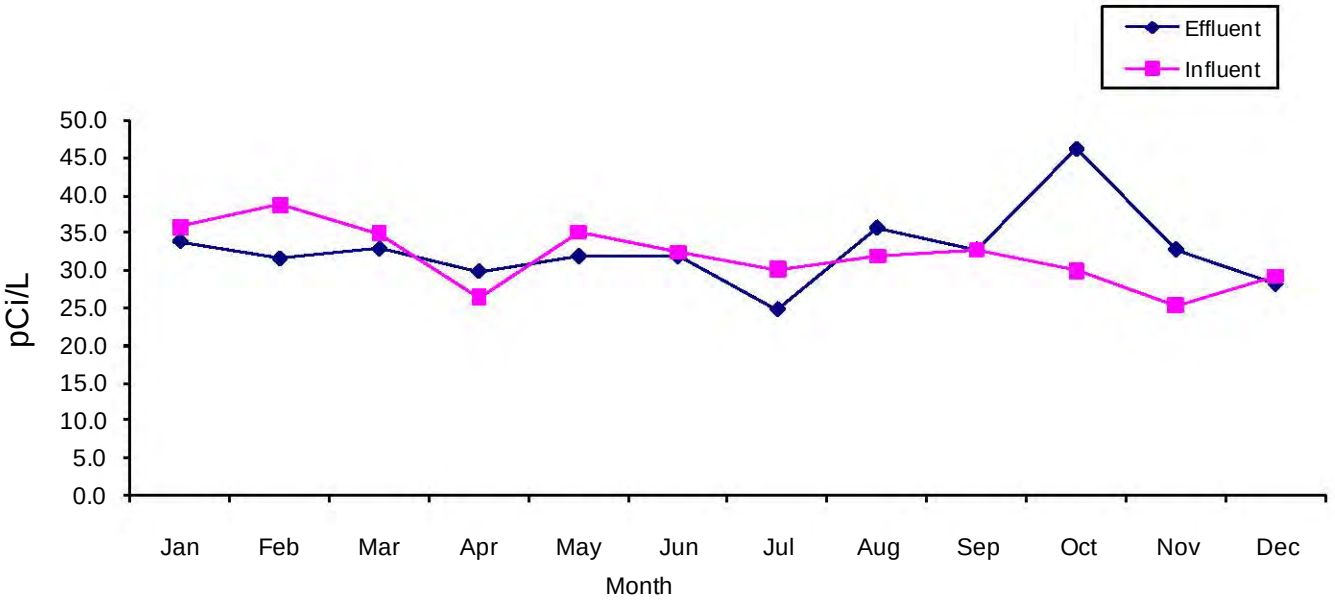
Point Loma Wastewater Treatment Plant

2010 Monthly Averages - Alpha Radiation



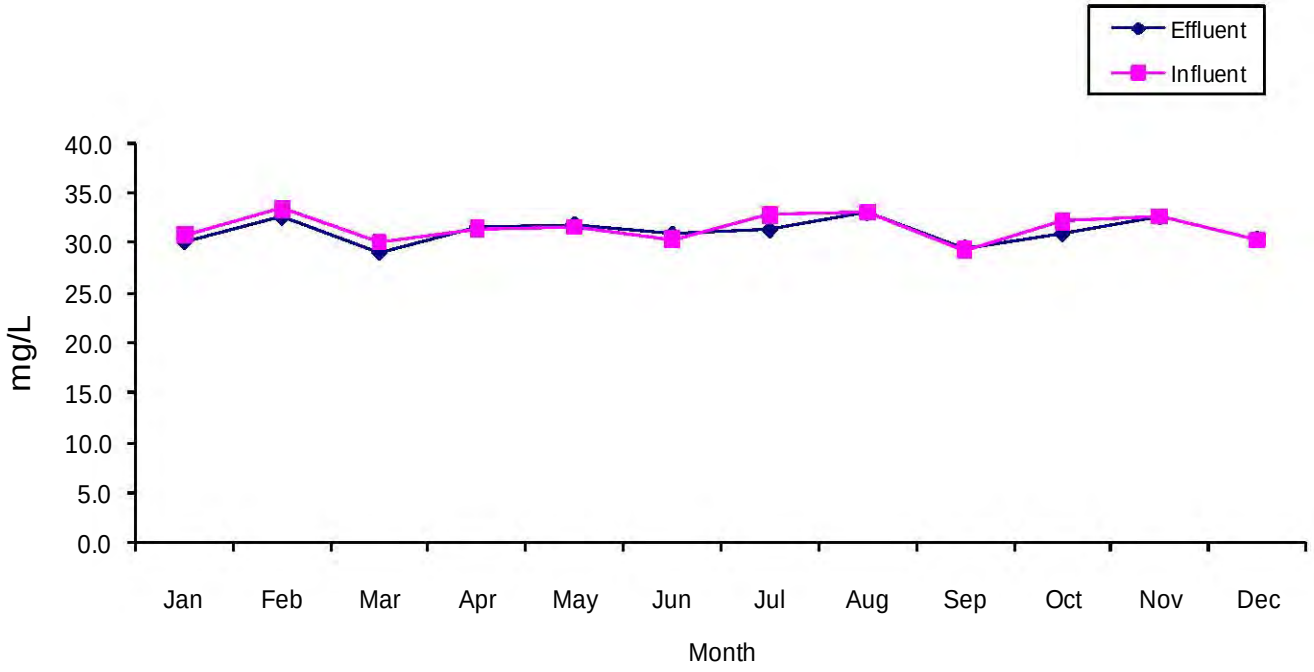
Point Loma Wastewater Treatment Plant

2010 Monthly Averages - Beta Radiation



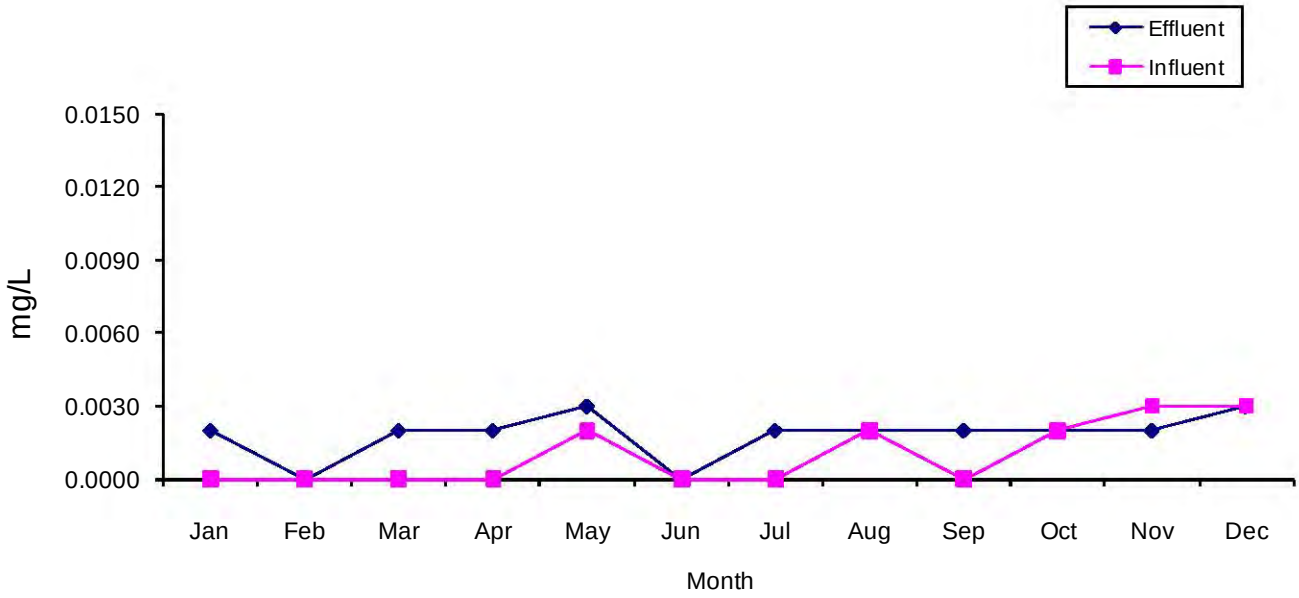
Point Loma Wastewater Treatment Plant

2010 Monthly Averages - Ammonia-N

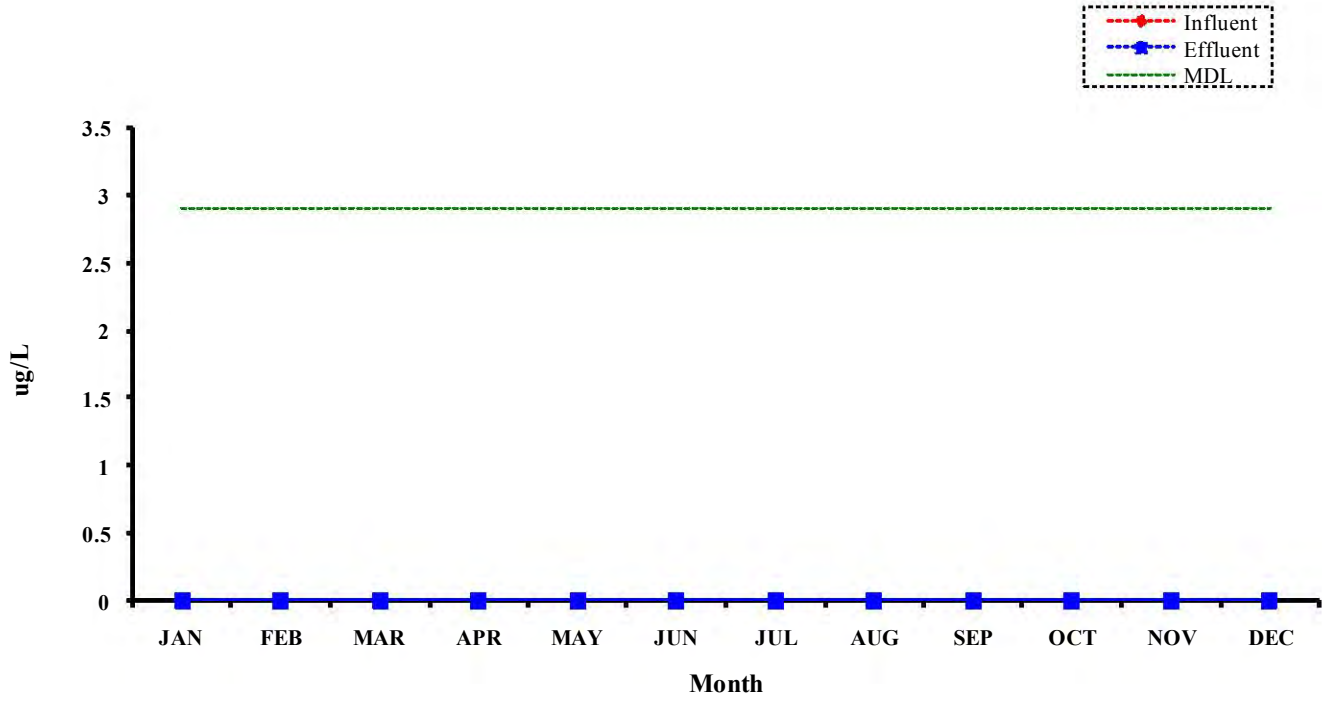


Point Loma Wastewater Treatment Plant

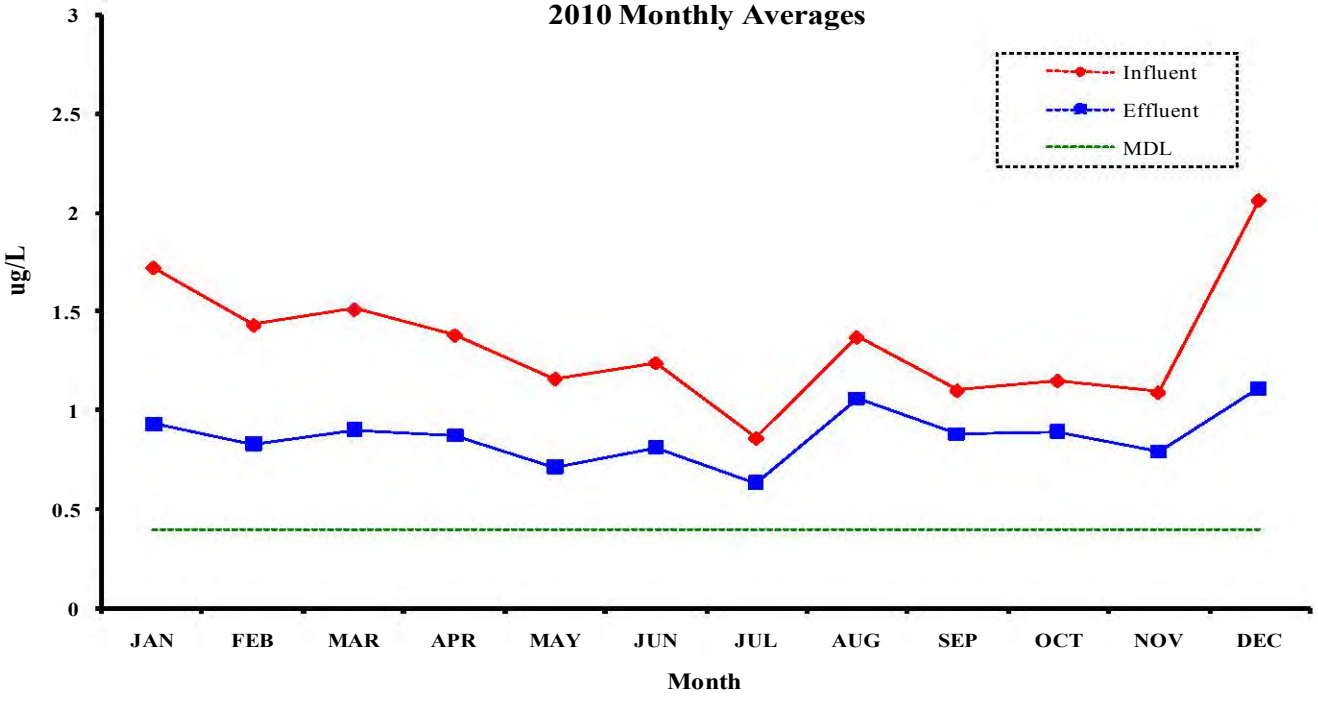
2010 Monthly Averages - Total Cyanides



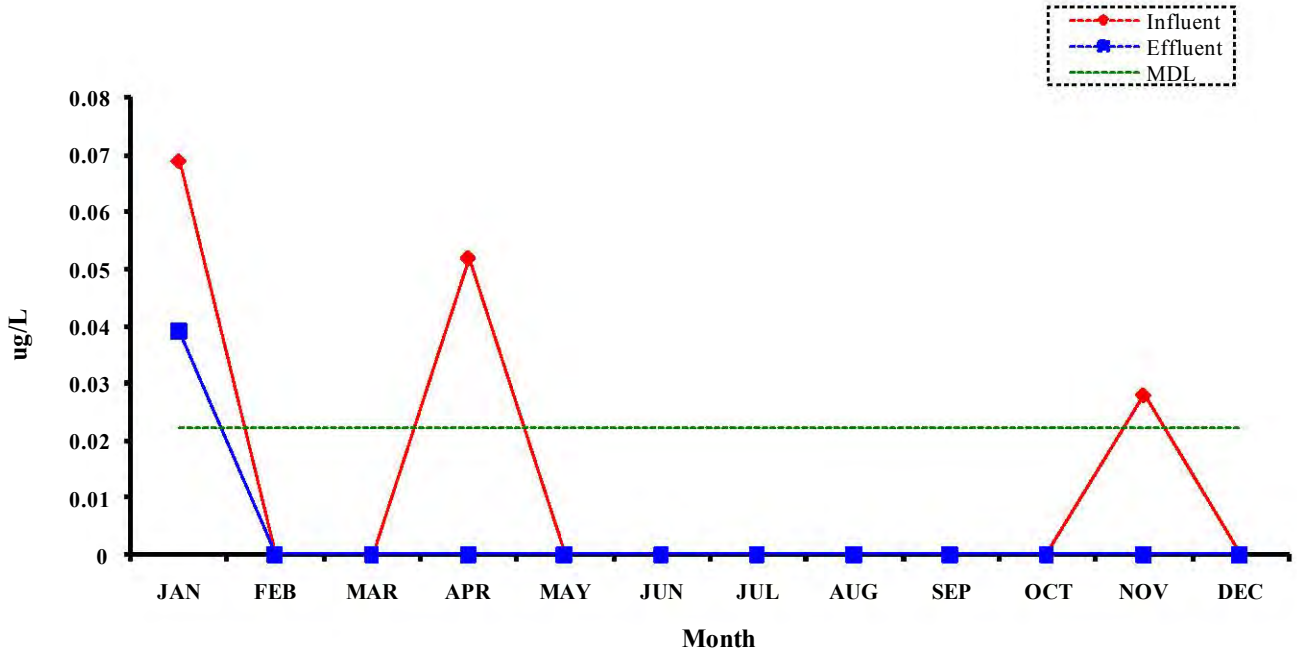
Antimony
2010 Monthly Averages



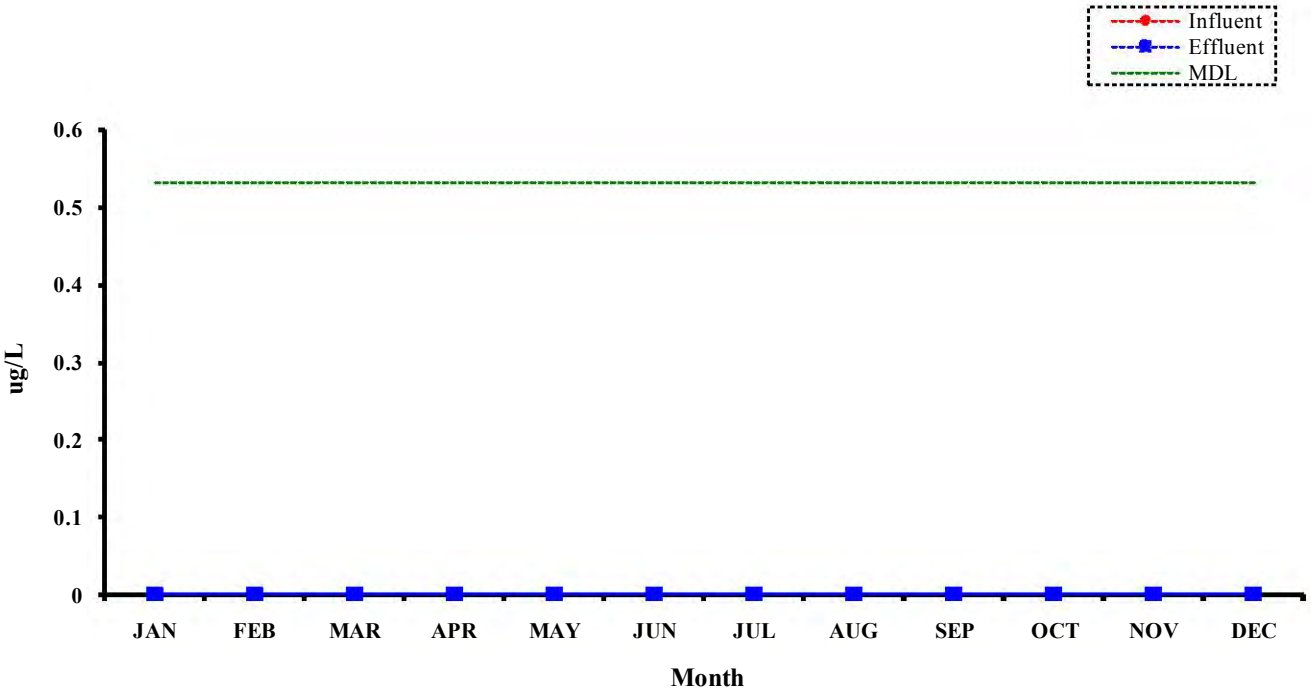
Arsenic
2010 Monthly Averages



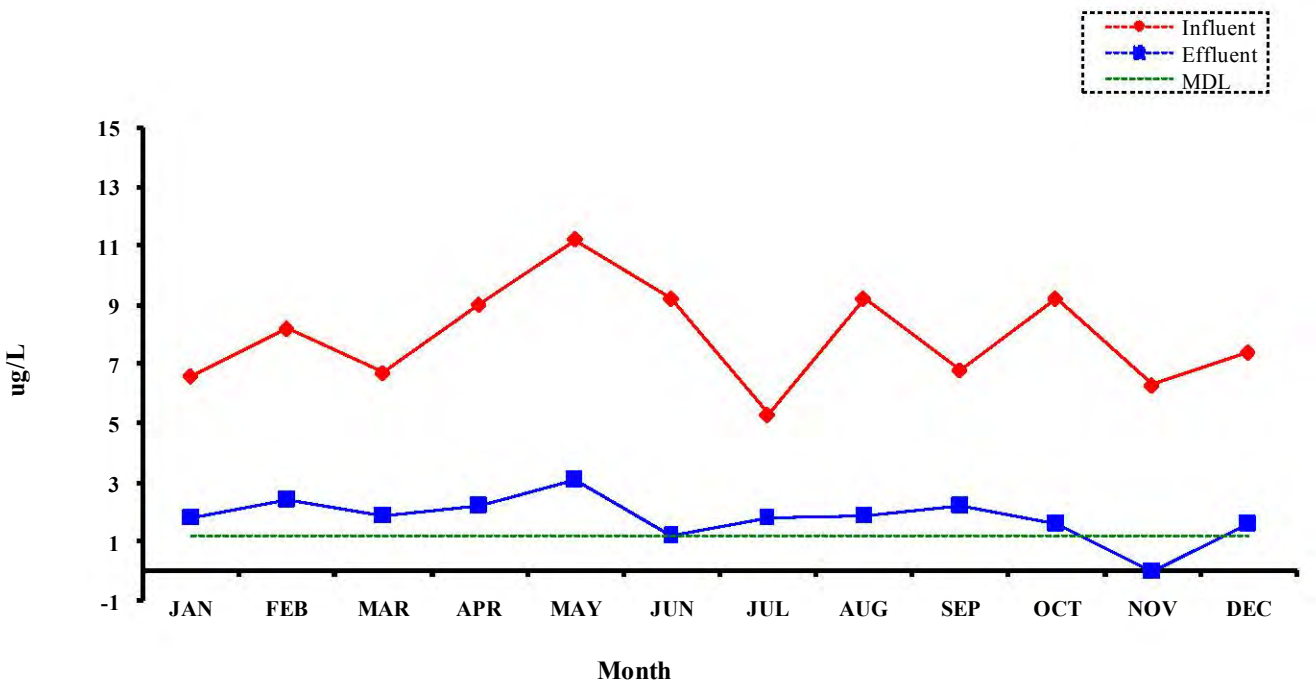
Beryllium
2010 Monthly Averages



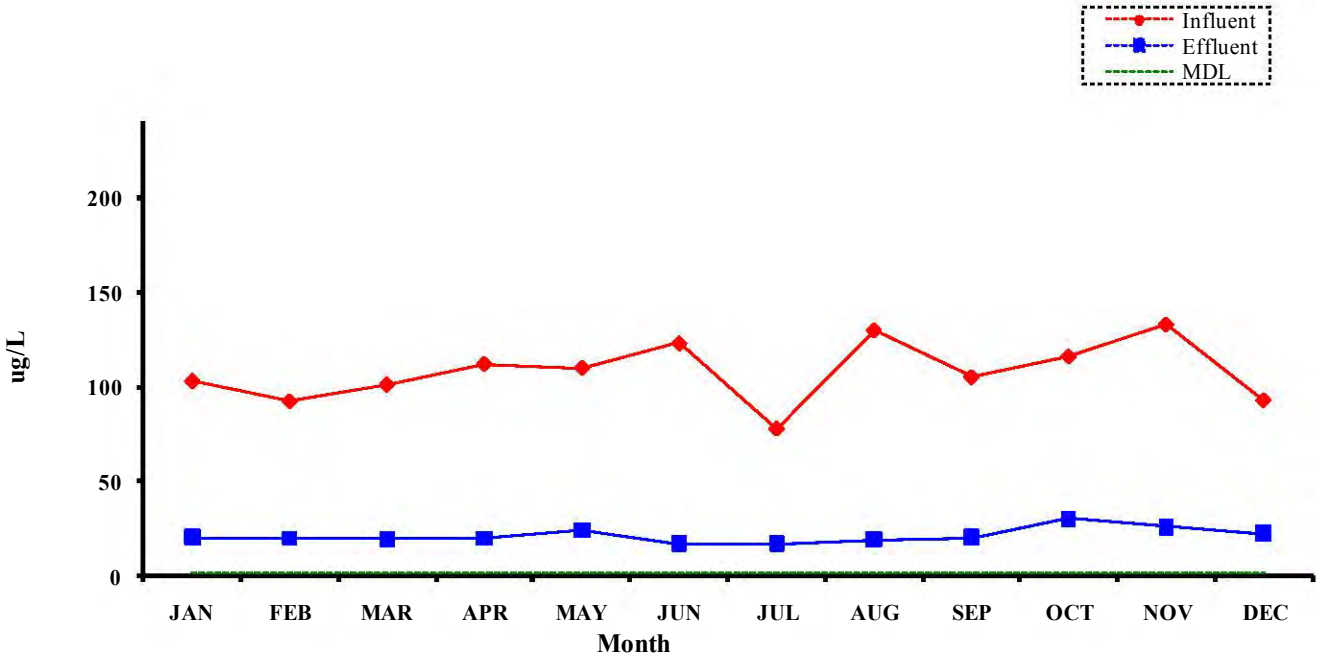
Cadmium
2010 Monthly Averages



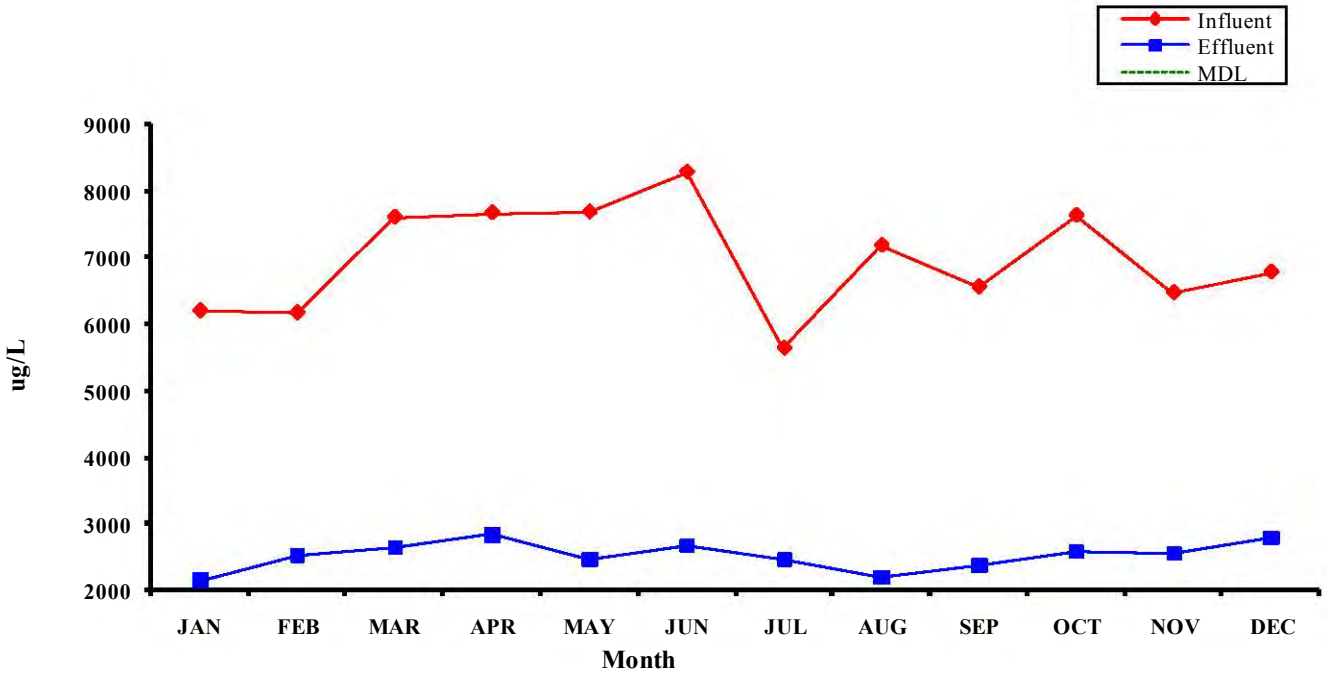
Chromium
2010 Monthly Averages



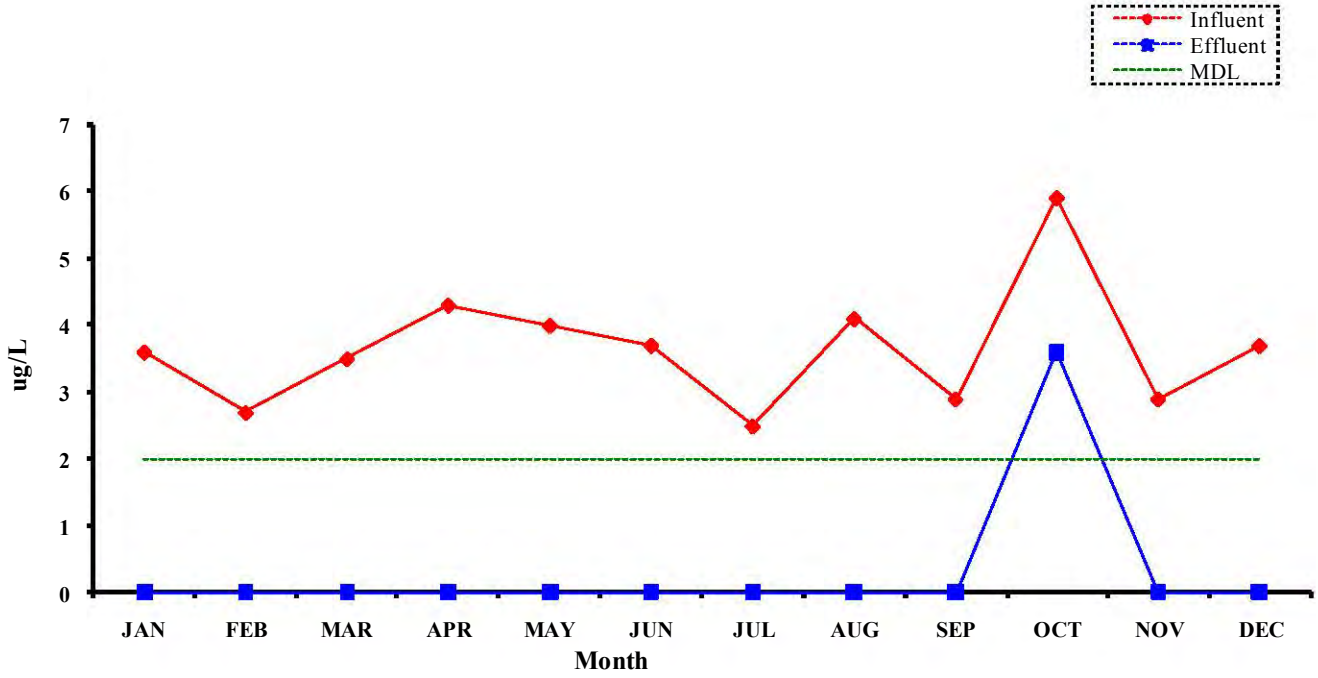
Copper
2010 Monthly Averages



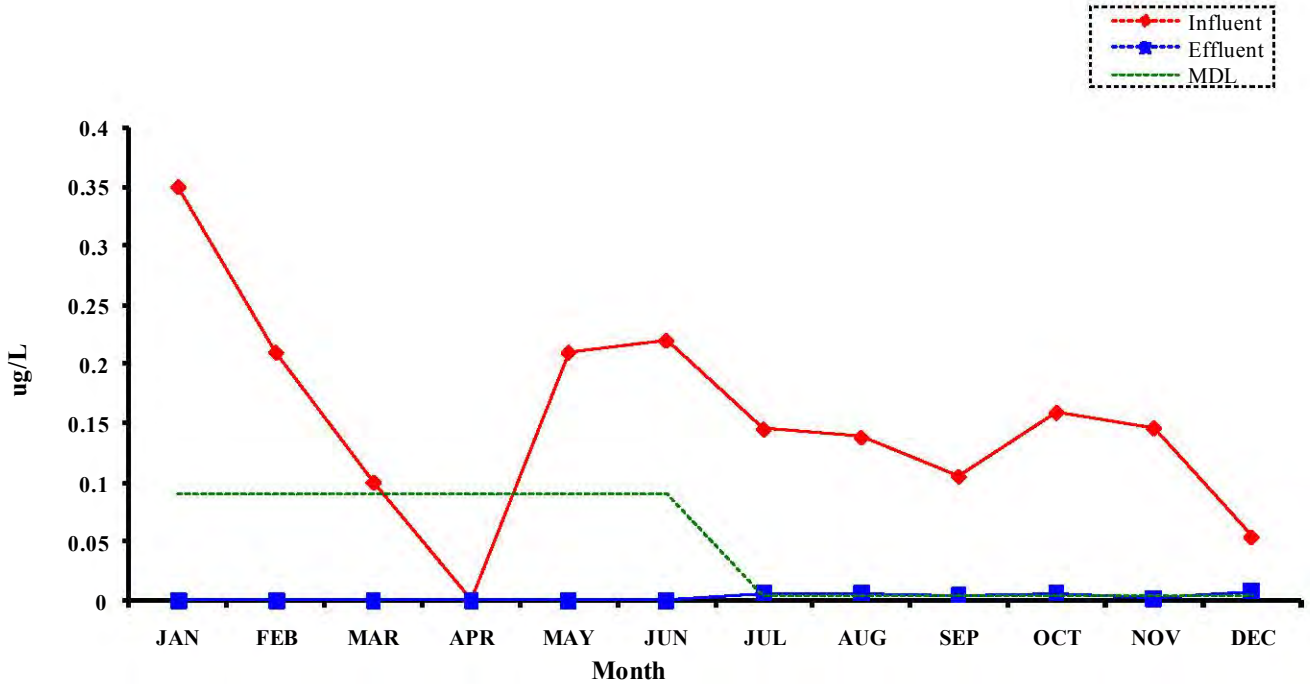
Iron
2010 Monthly Averages



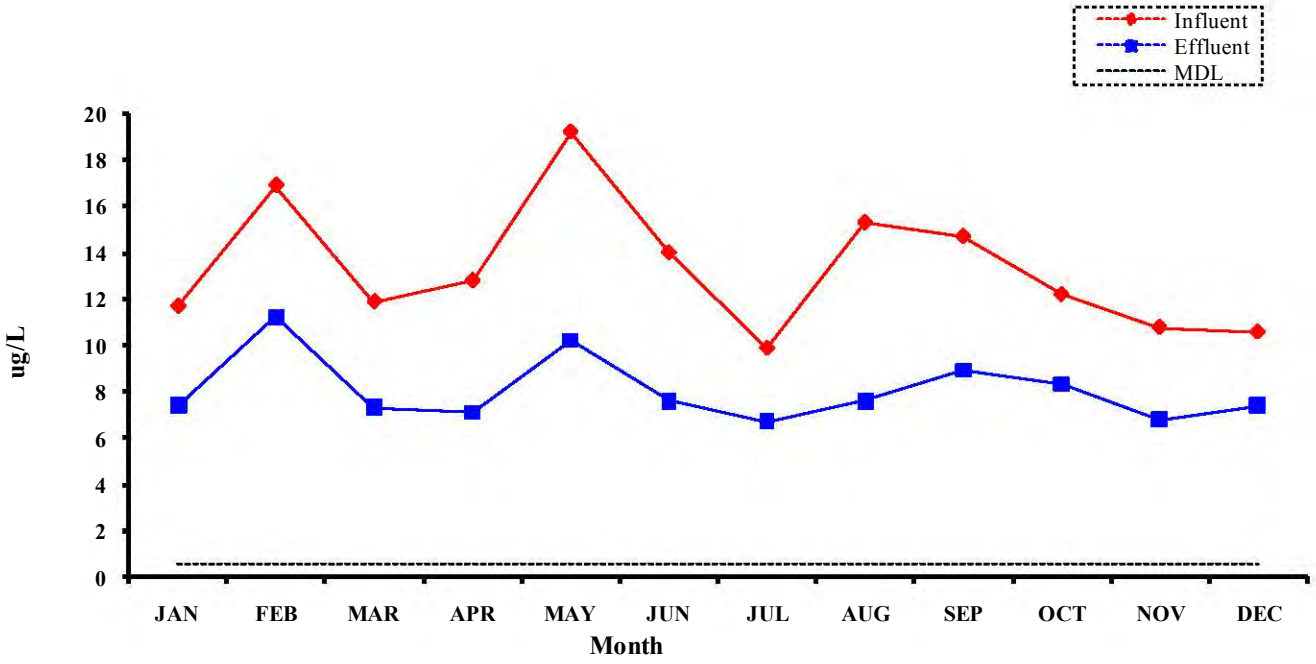
Lead
2010 Monthly Averages



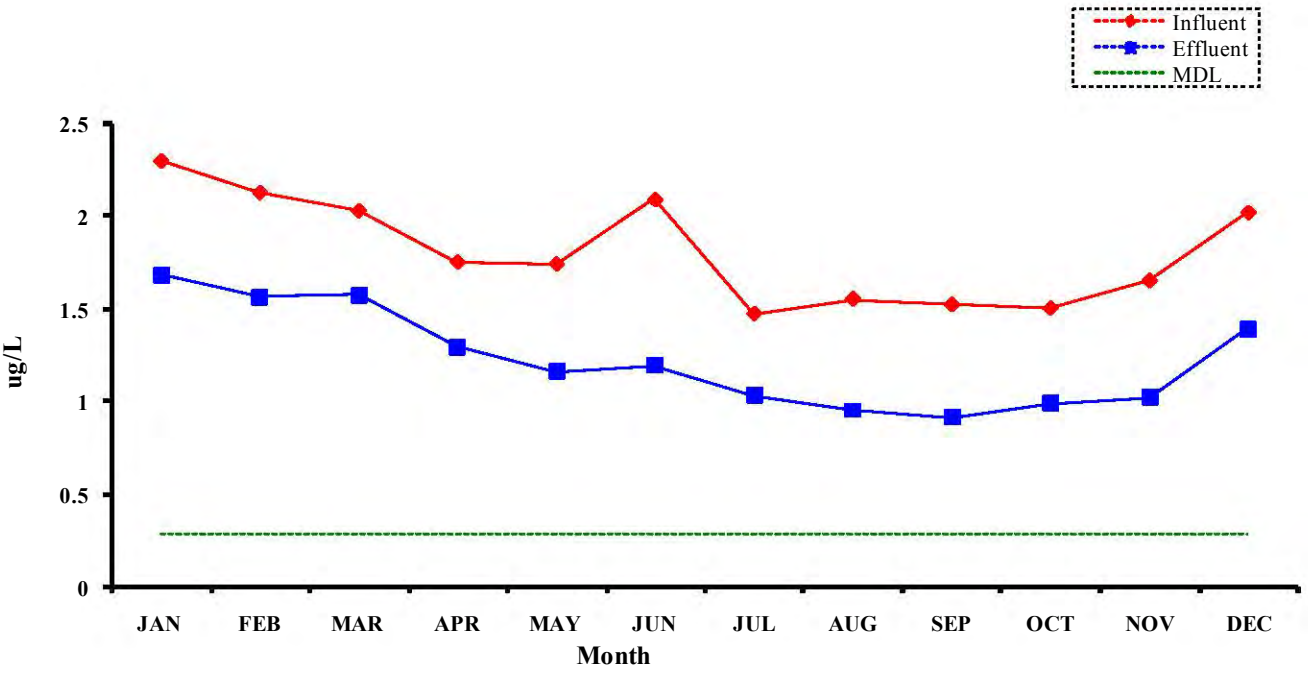
Mercury
2010 Monthly Averages



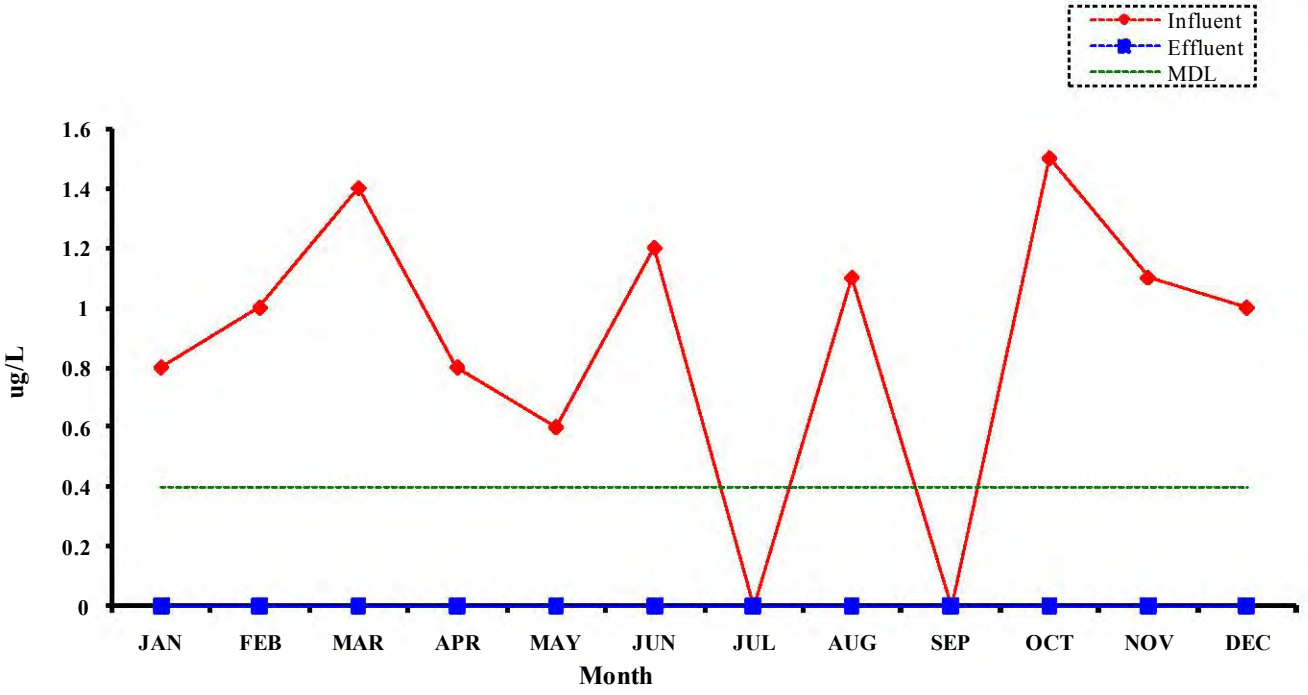
Nickel
2010 Monthly Averages



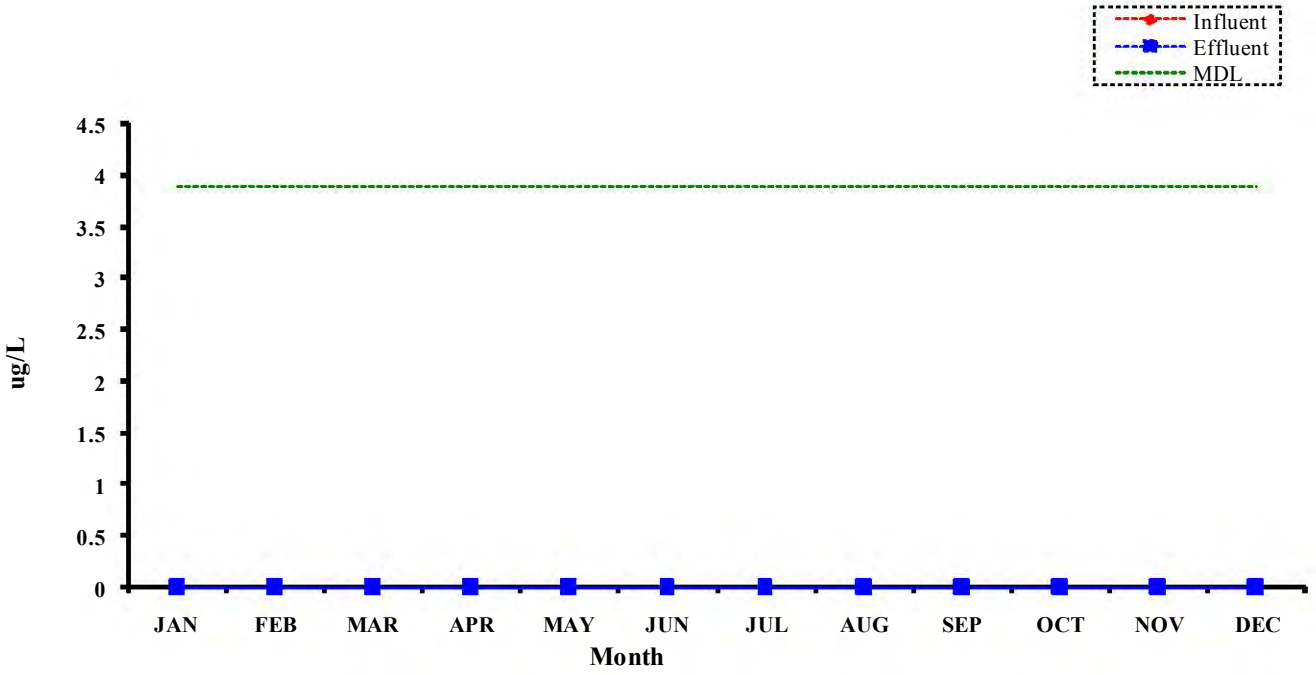
Selenium
2010 Monthly Averages



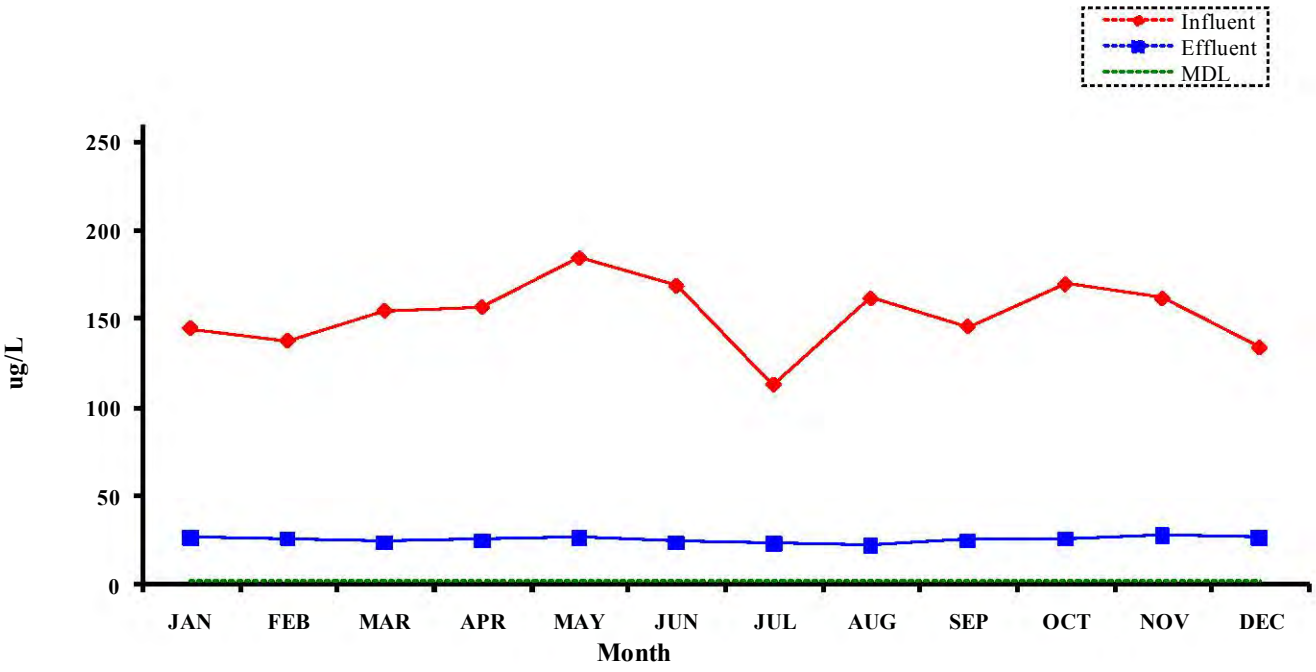
Silver
2010 Monthly Averages



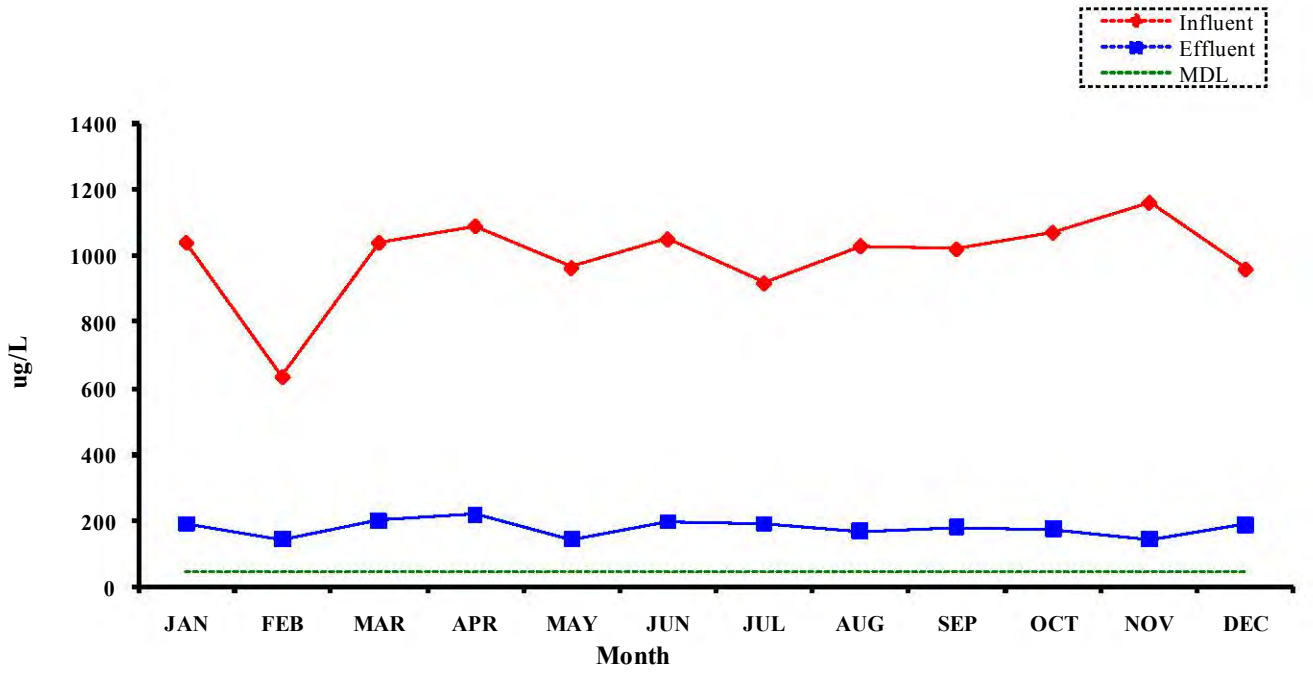
Thallium
2010 Monthly Averages



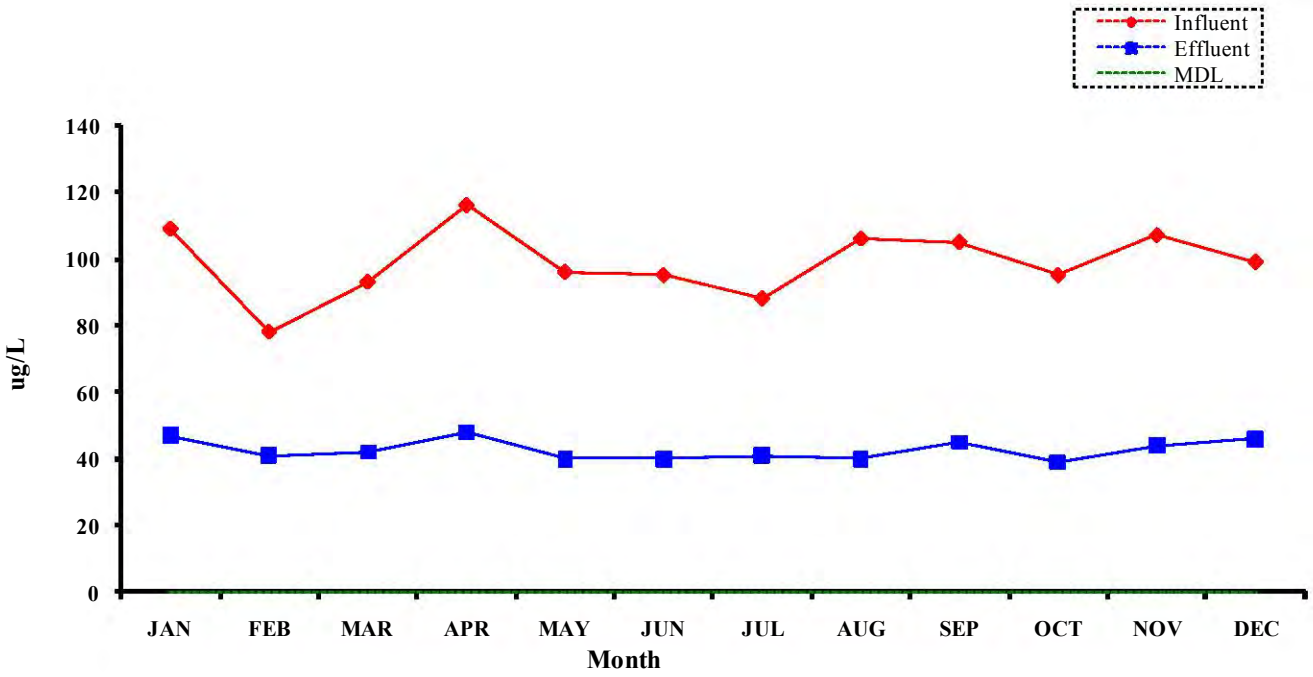
Zinc
2010 Monthly Averages



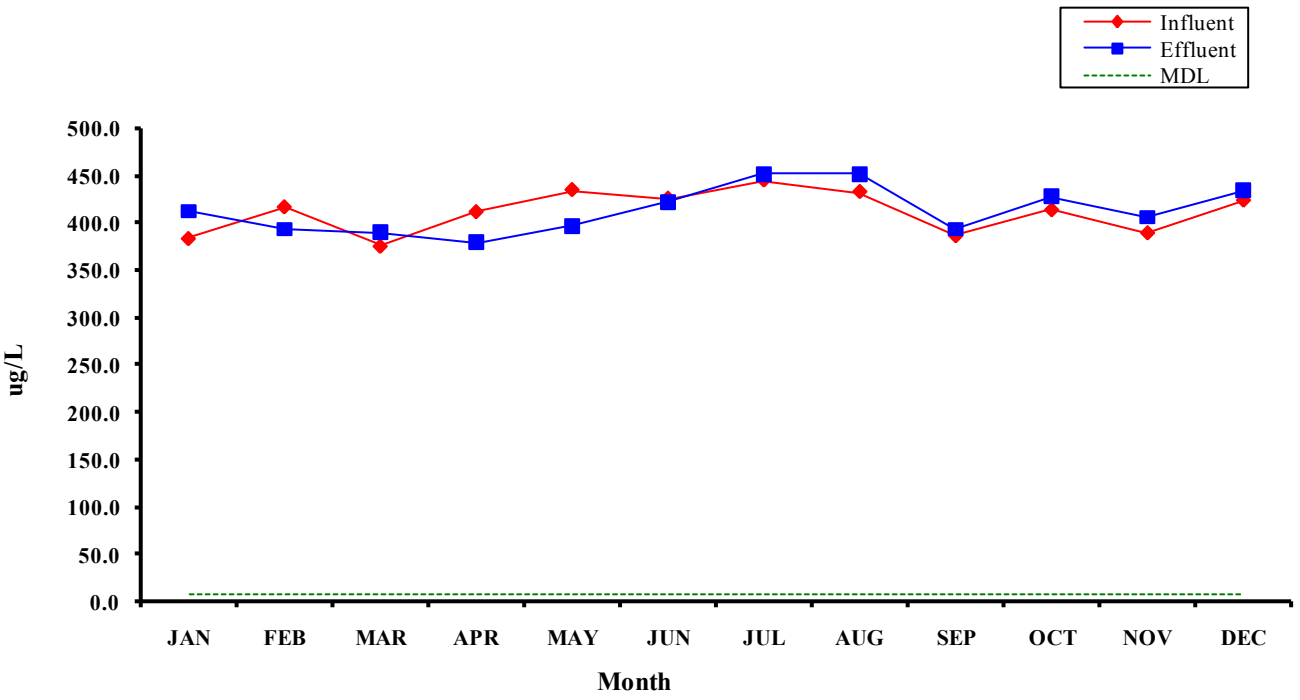
Aluminum
2010 Monthly Averages



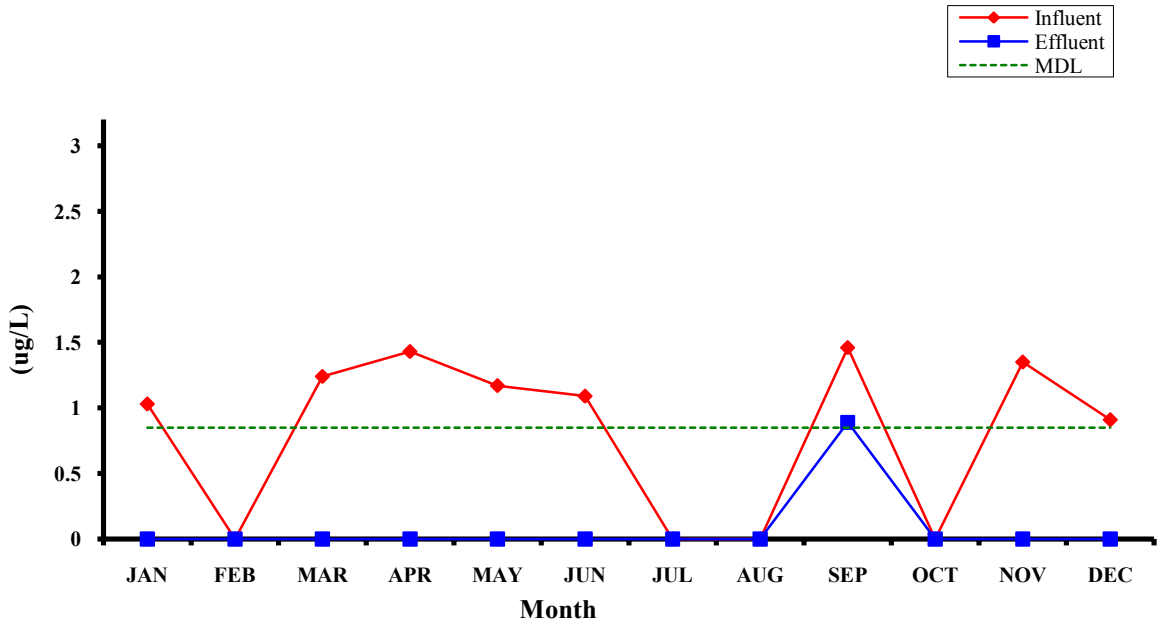
Barium
2010 Monthly Averages



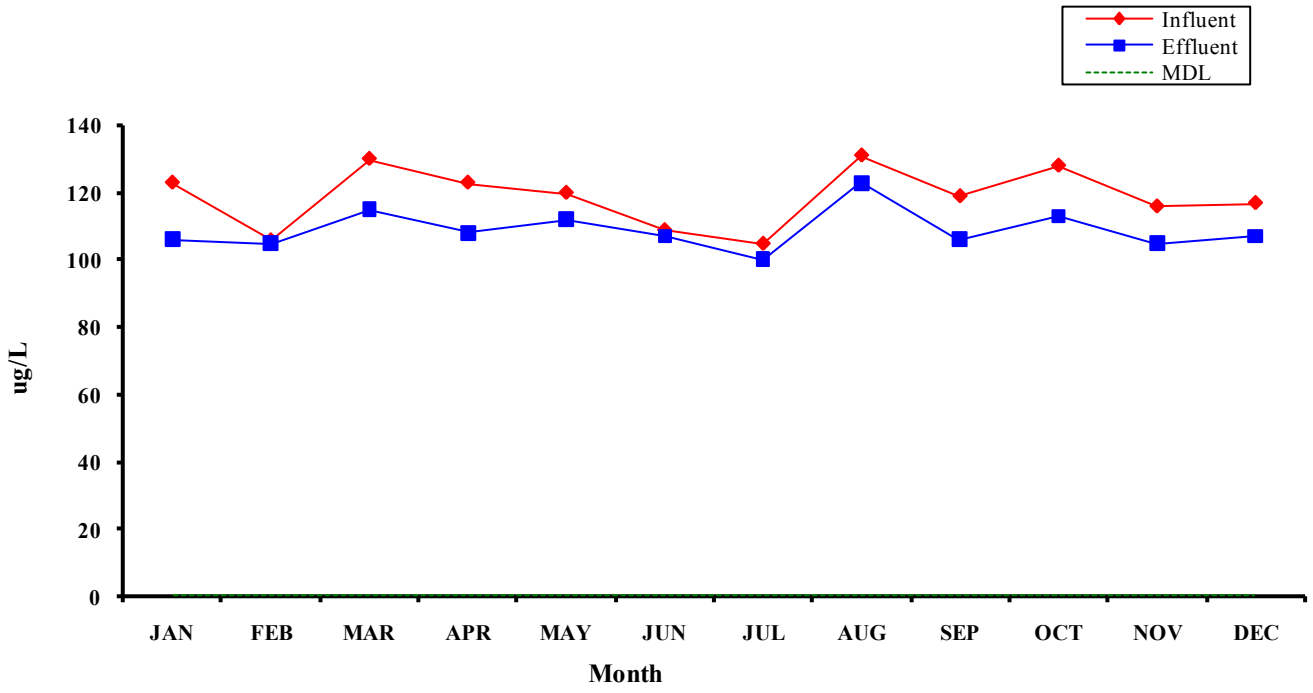
Boron
2010 Monthly Averages



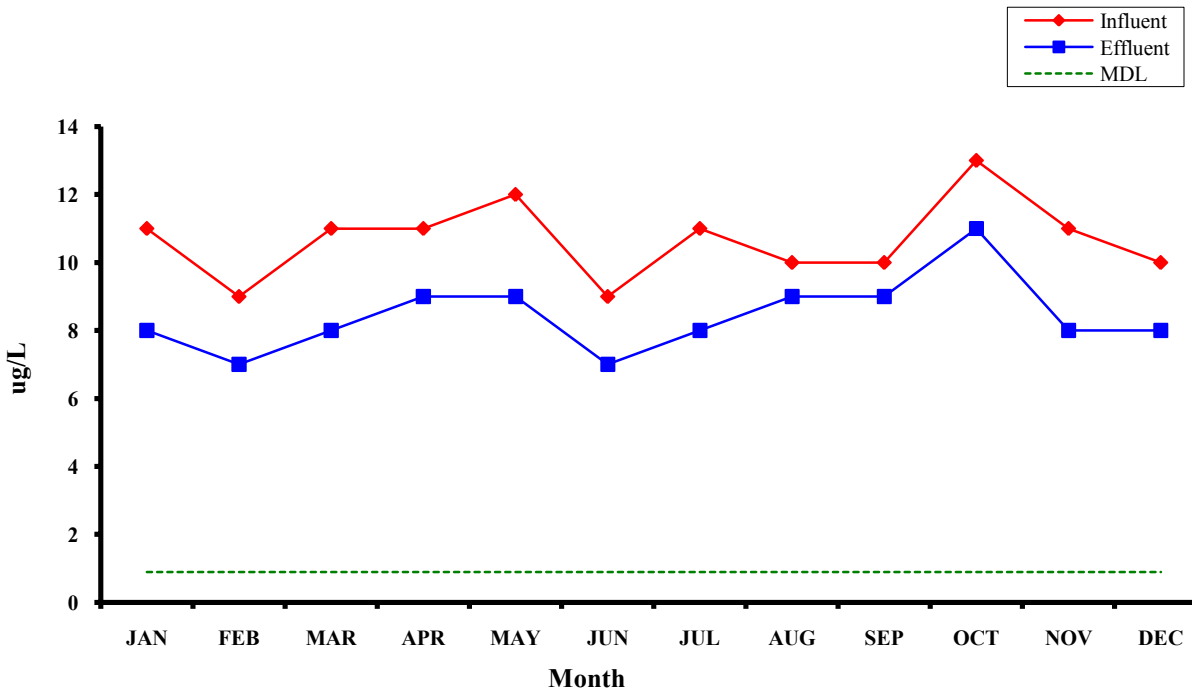
Cobalt
2010 Monthly Averages



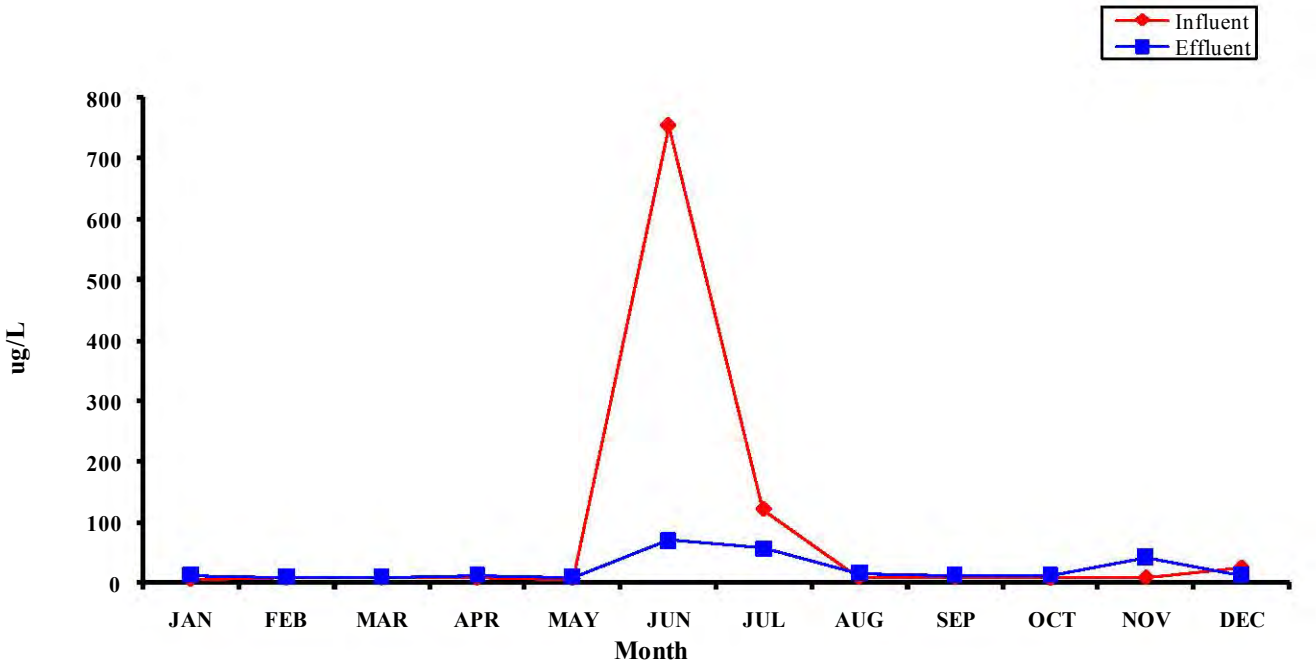
Manganese
2010 Monthly Averages



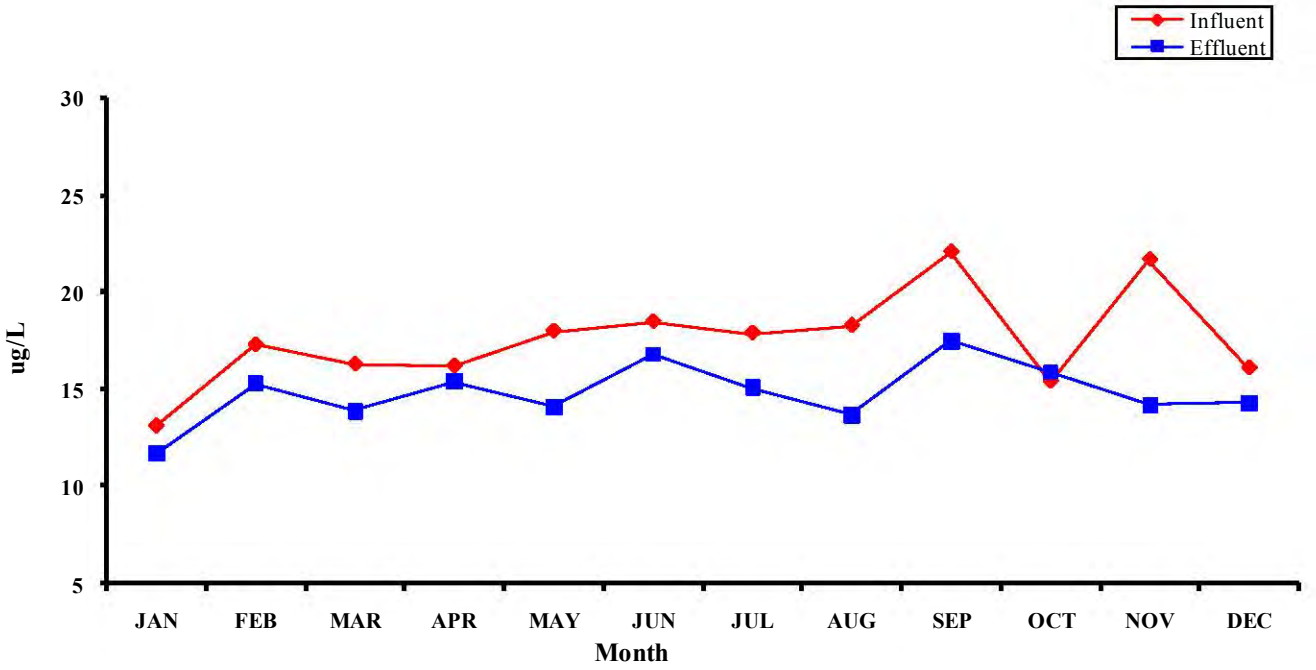
Molybdenum
2010 Monthly Averages



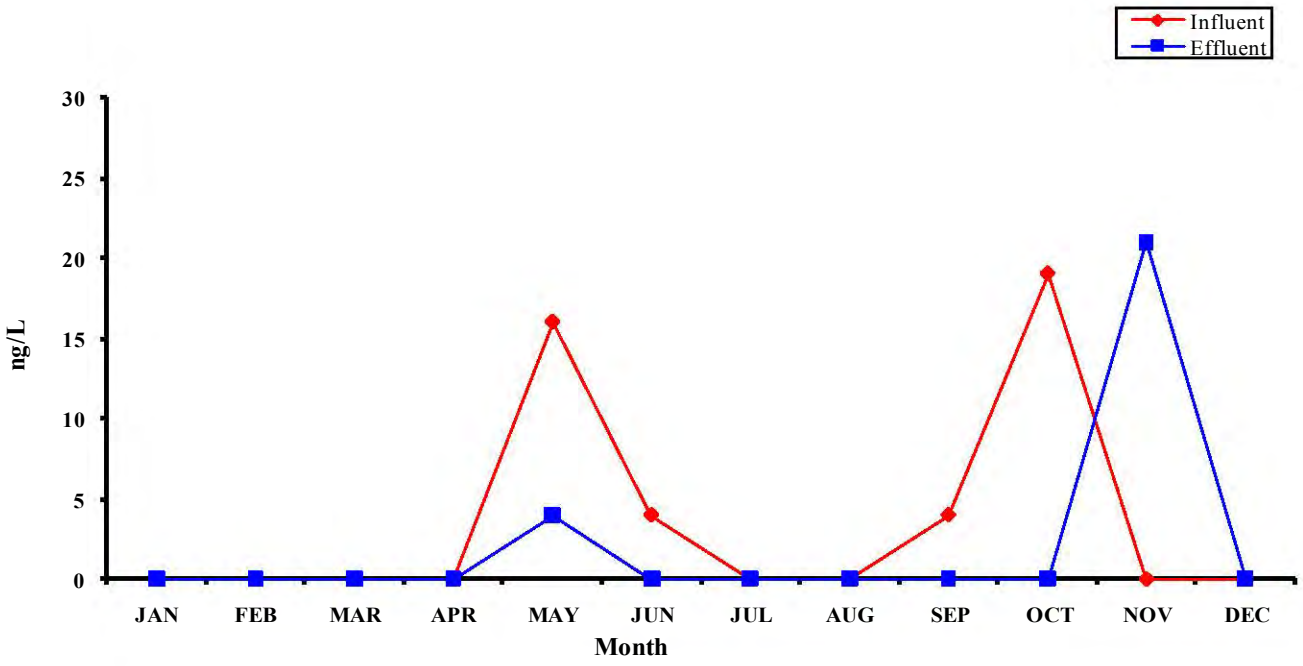
Purgeables
2010 Monthly Averages



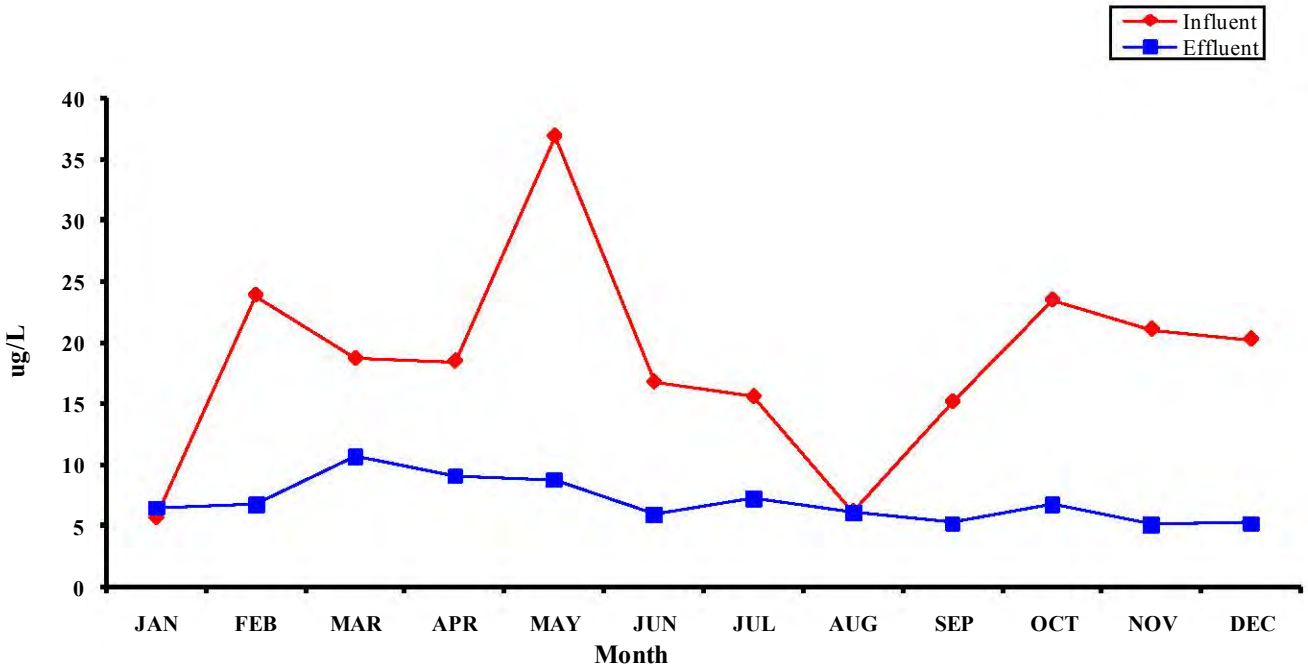
Phenols
2010 Monthly Averages



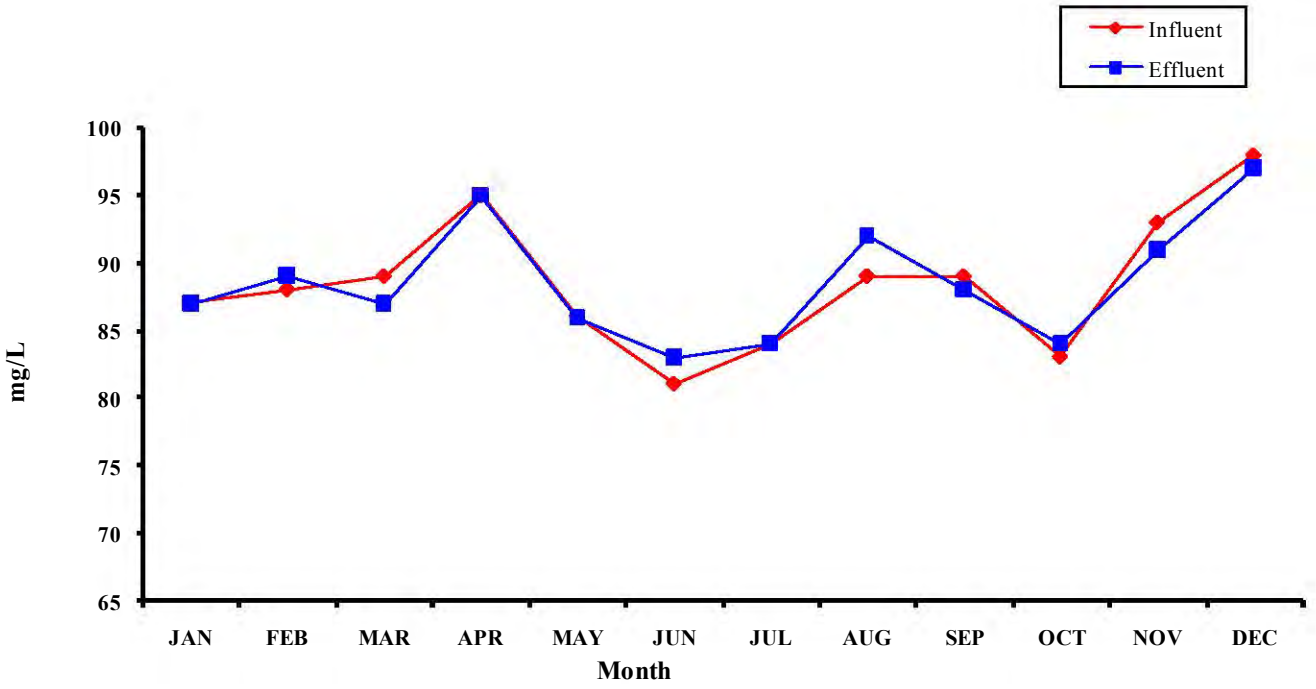
Total Chlorinated Hydrocarbons
2010 Monthly Averages



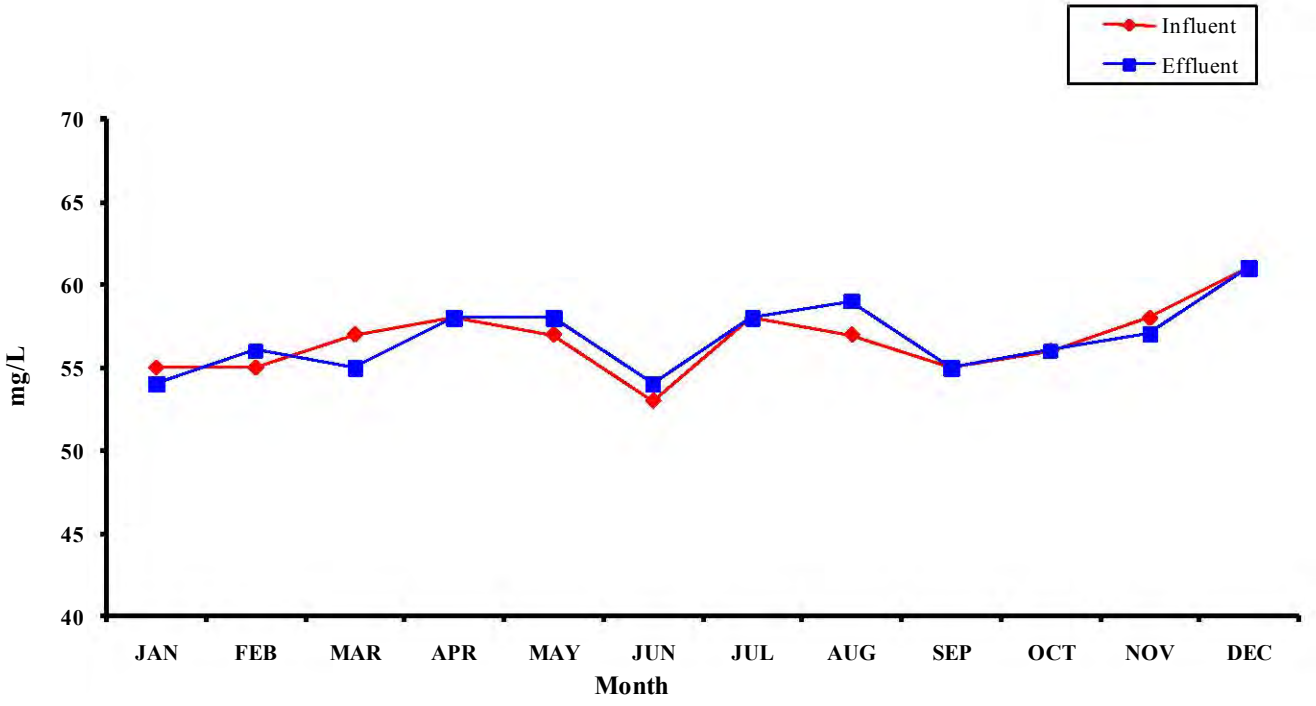
Base Neutrals
2010 Monthly Averages



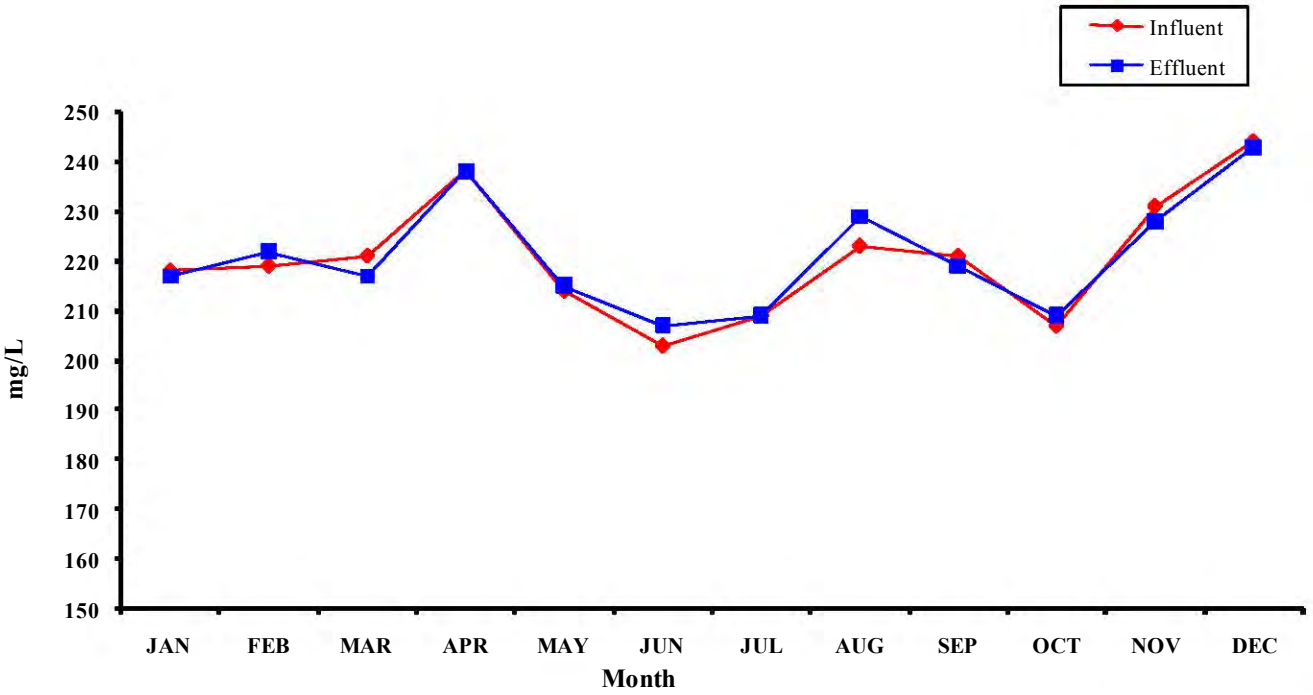
Calcium
2010 Monthly Averages



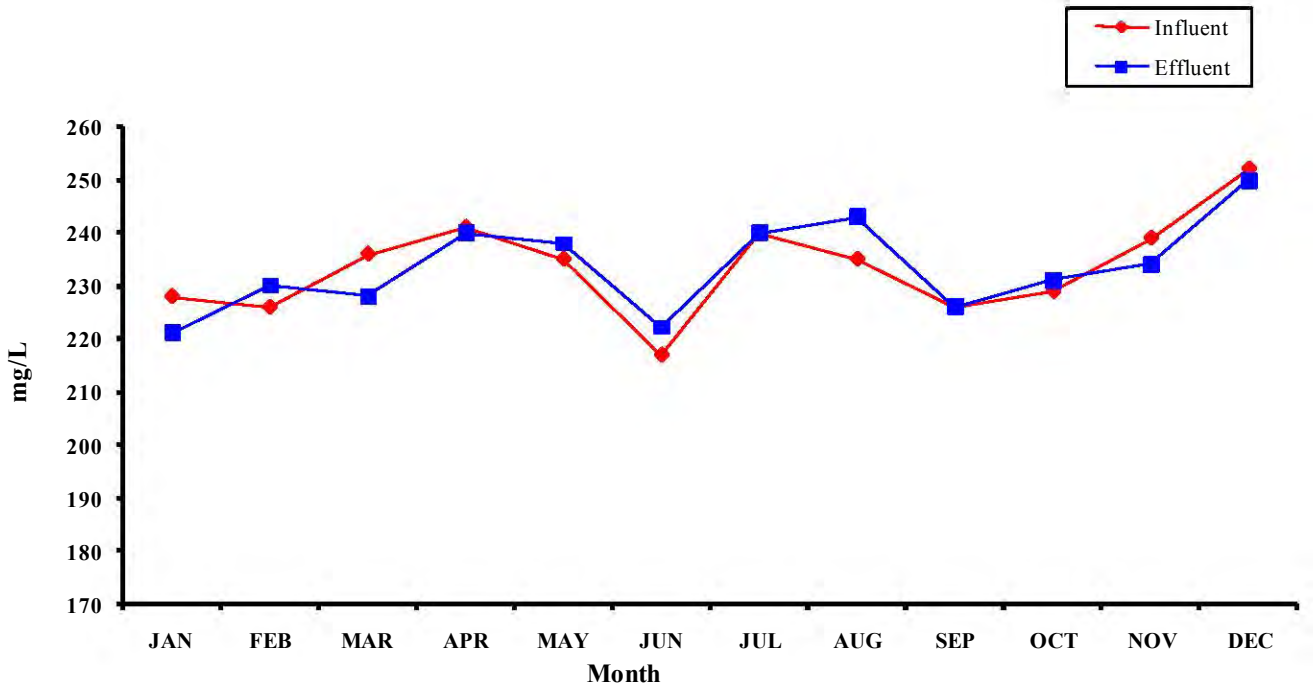
Magnesium
2010 Monthly Averages



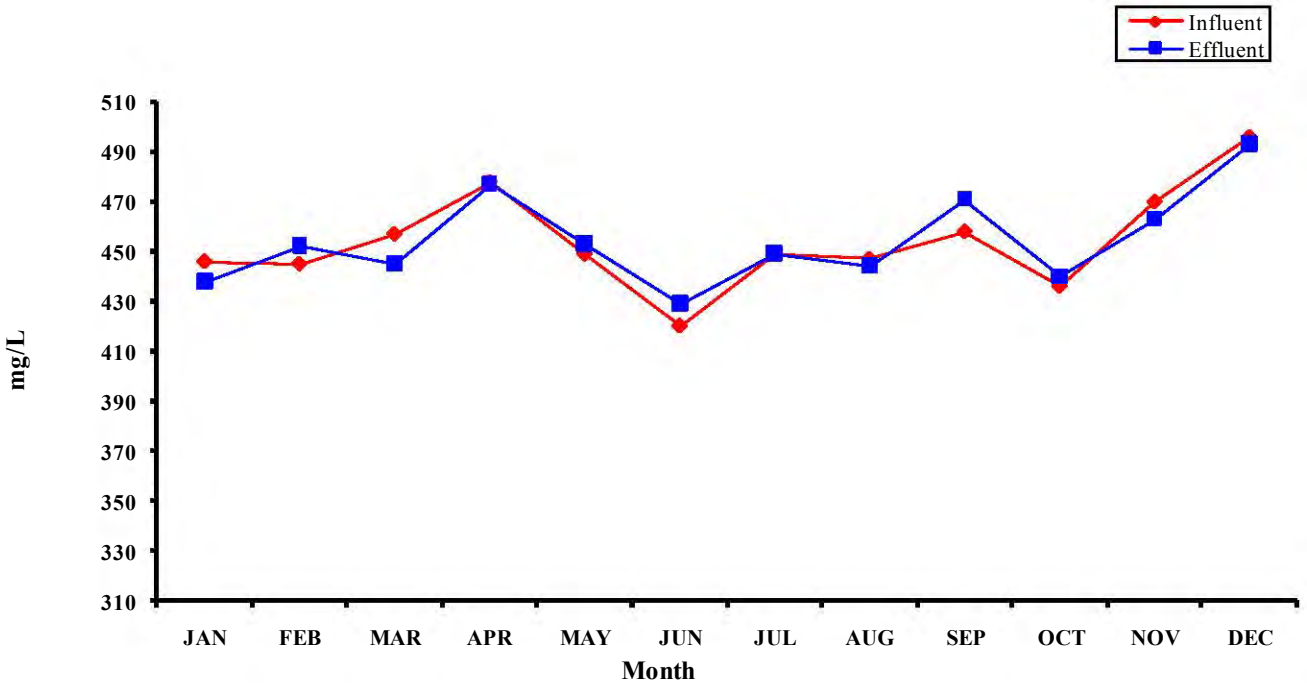
Calcium Hardness
2010 Monthly Averages



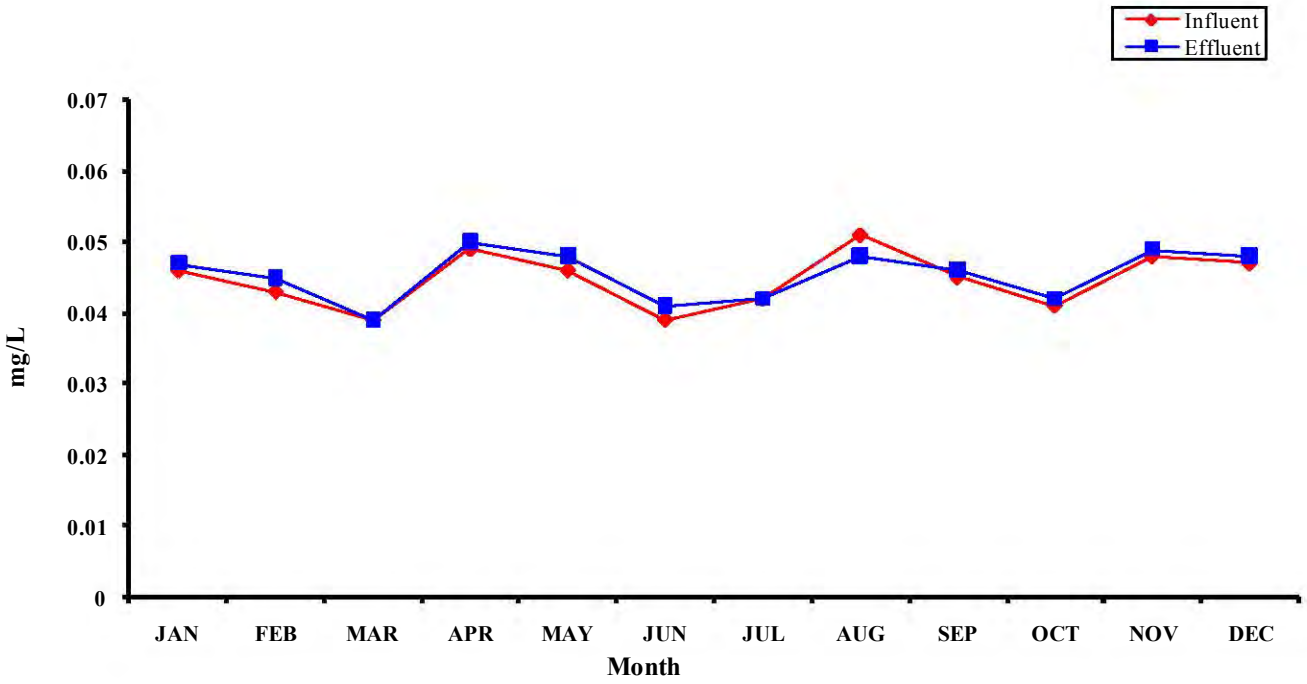
Magnesium Hardness
2010 Monthly Averages



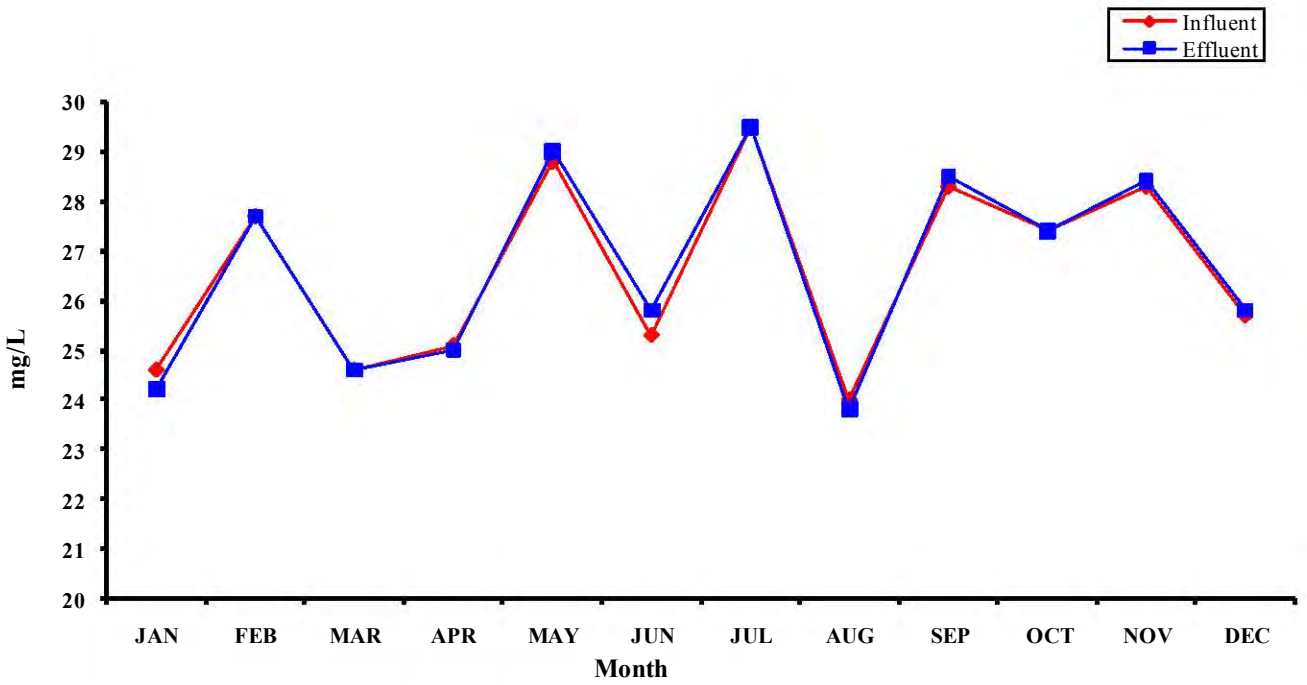
Total Hardness
2010 Monthly Averages



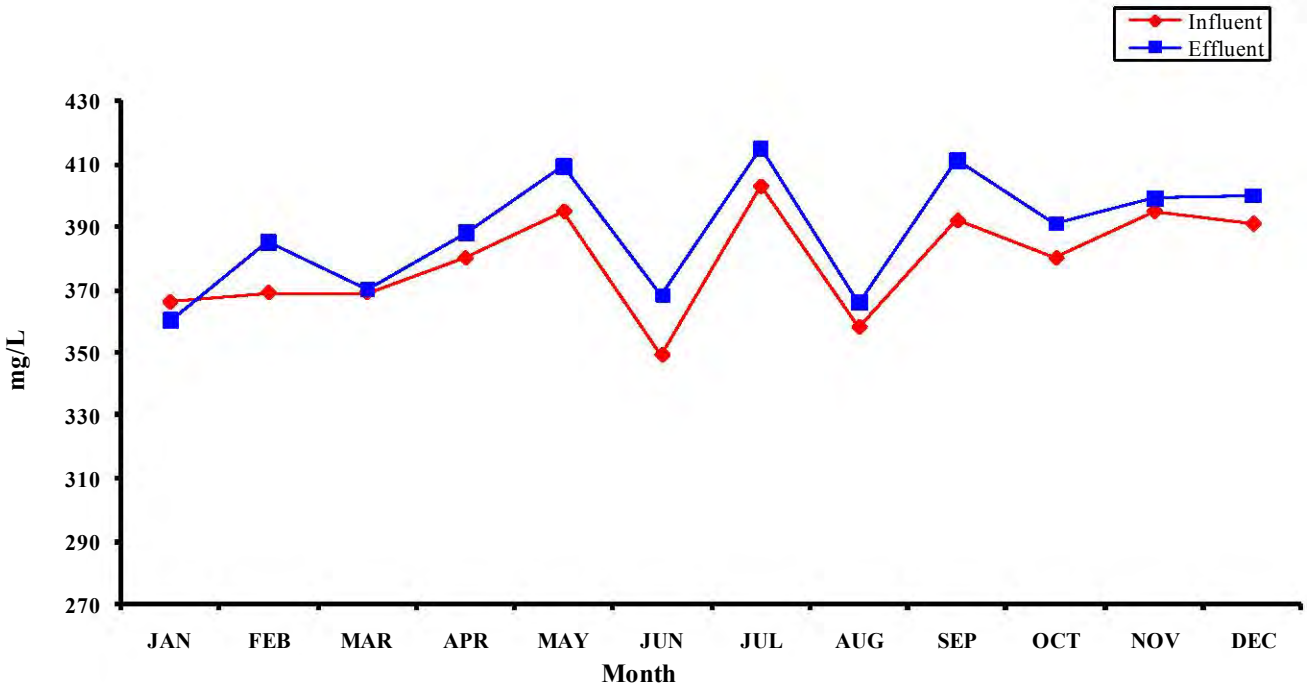
Lithium
2010 Monthly Averages



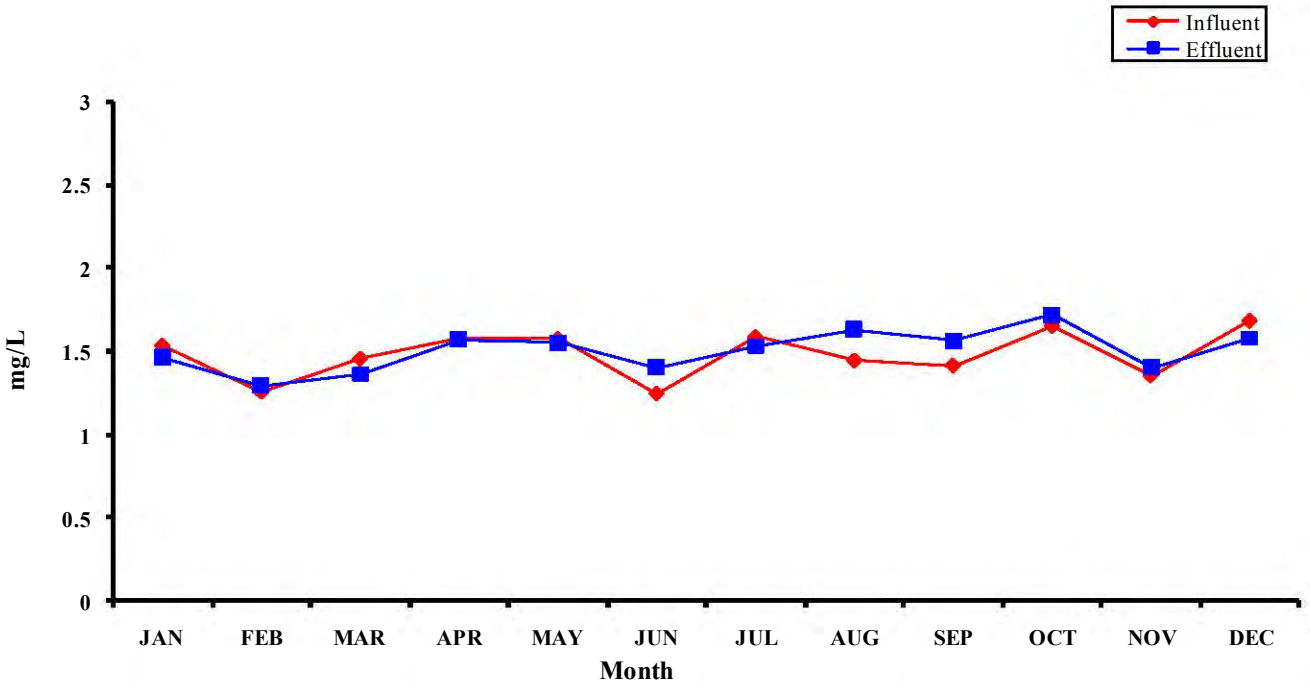
Potassium
2010 Monthly Averages



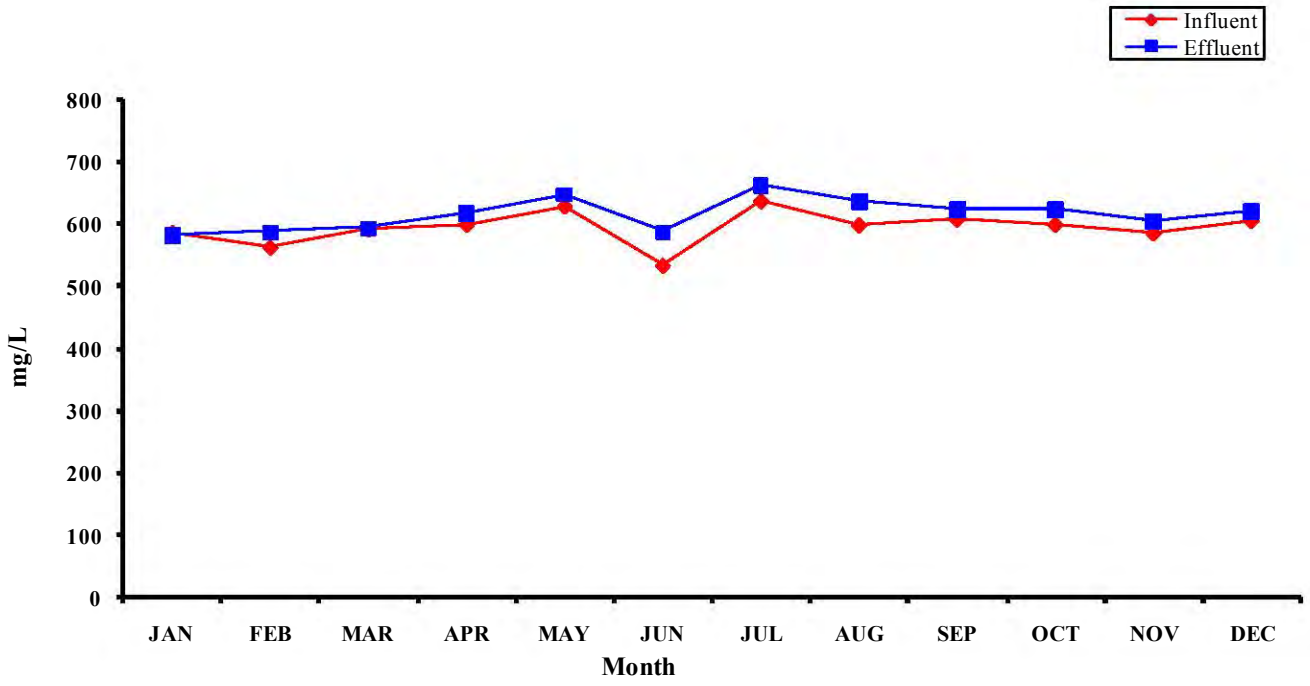
Sodium
2010 Monthly Averages



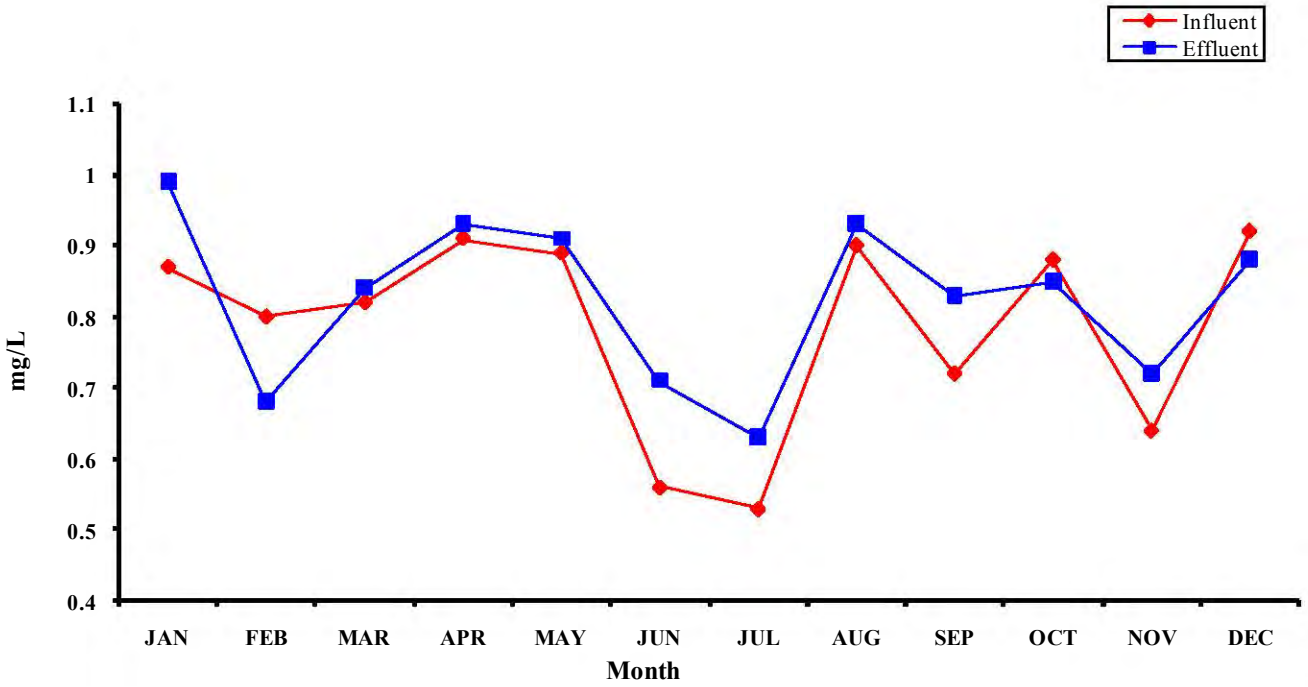
Bromide
2010Monthly Averages



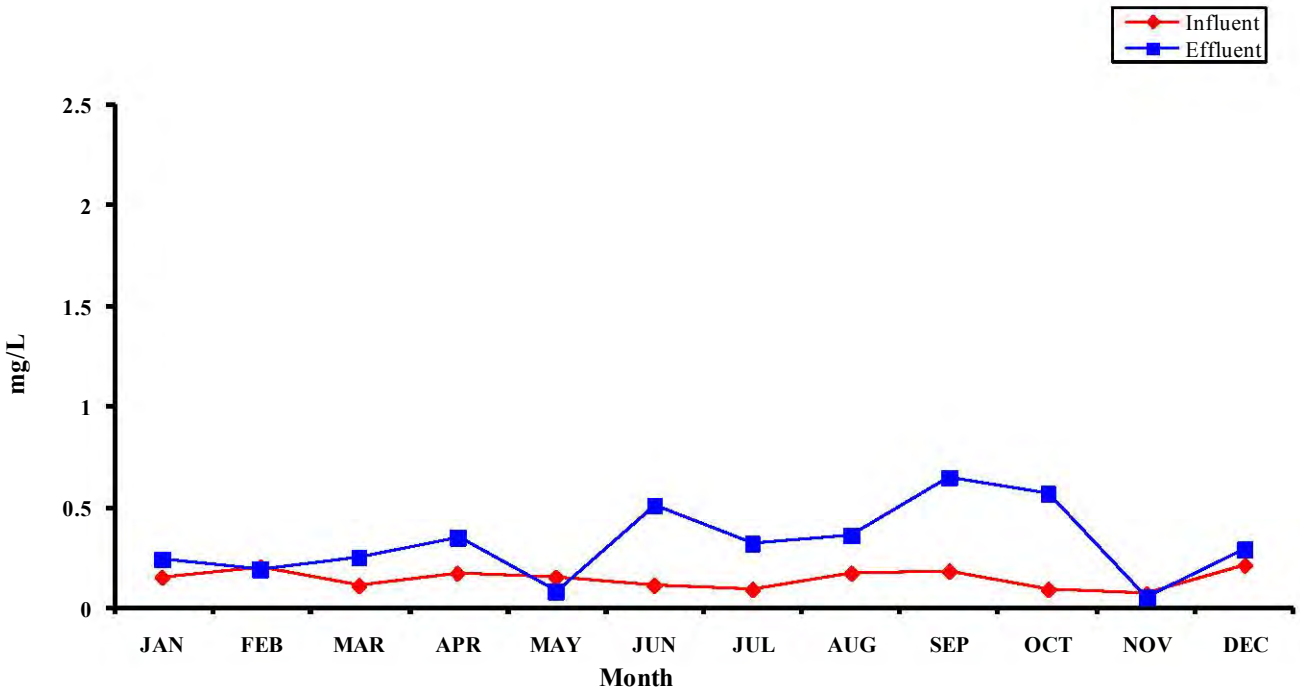
Chloride
2010 Monthly Averages



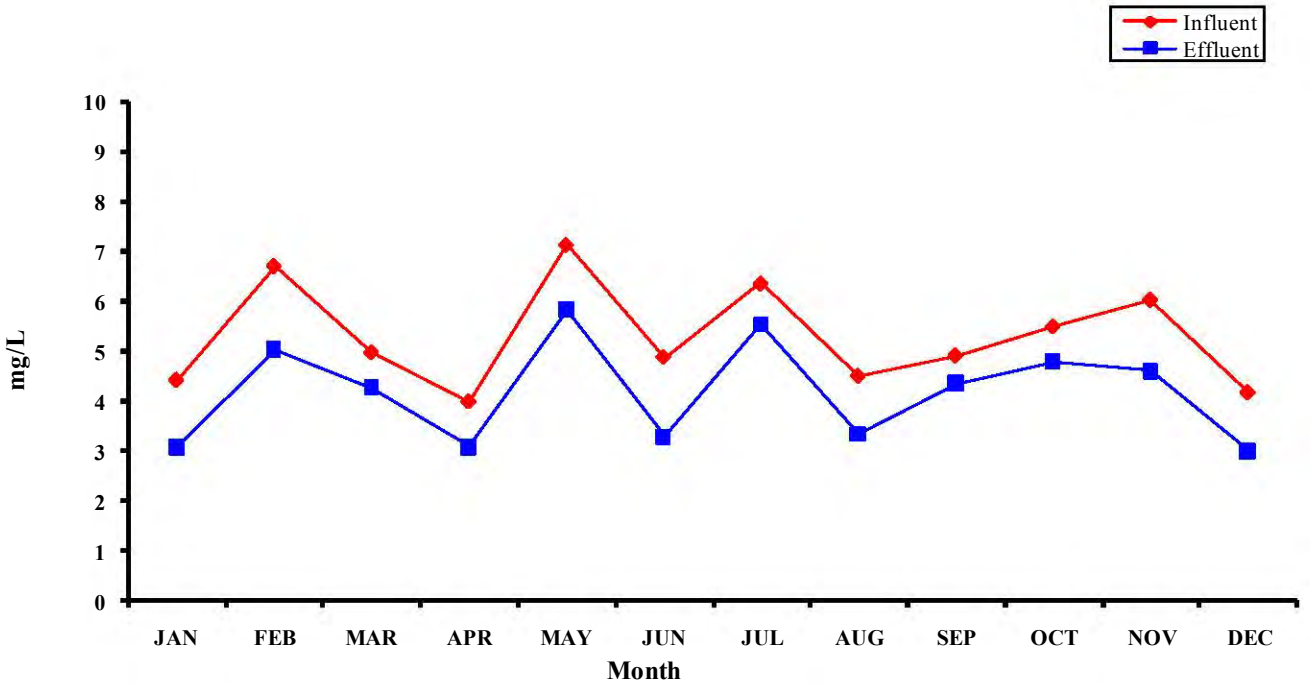
Fluoride
2010 Monthly Averages



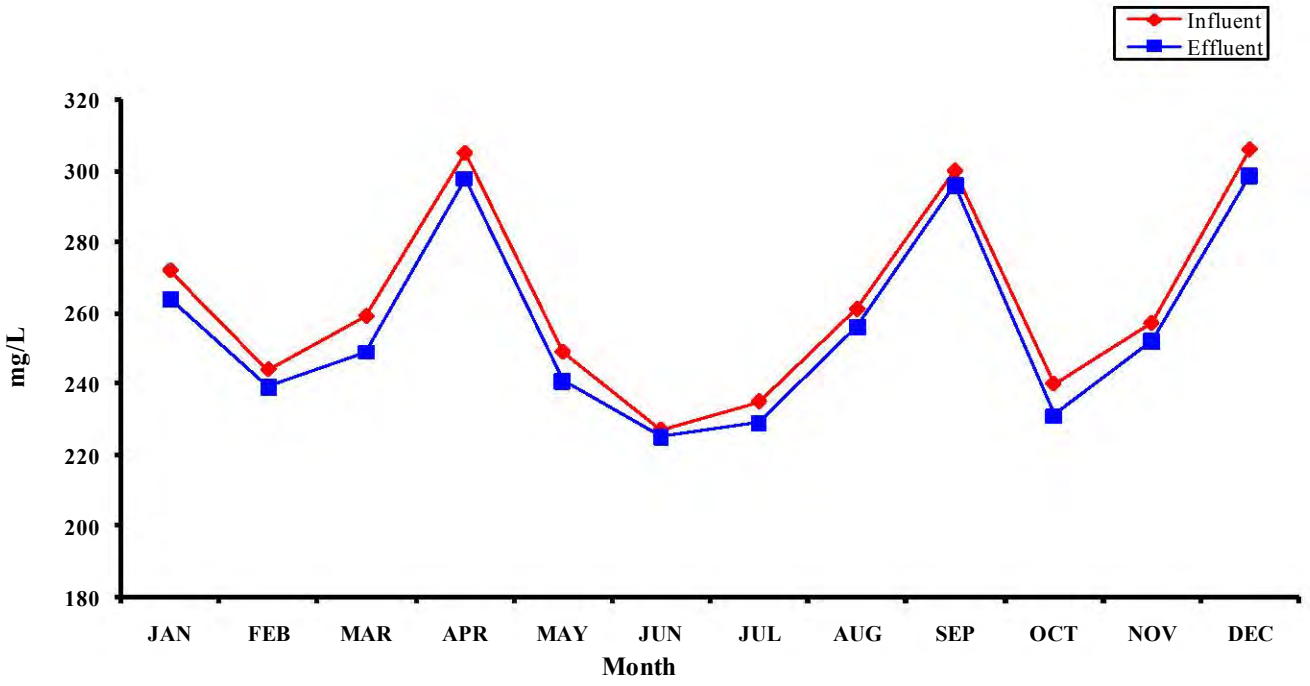
Nitrate
2010 Monthly Averages



O-Phosphate
2010 Monthly Averages



Sulfate
2010 Monthly Averages



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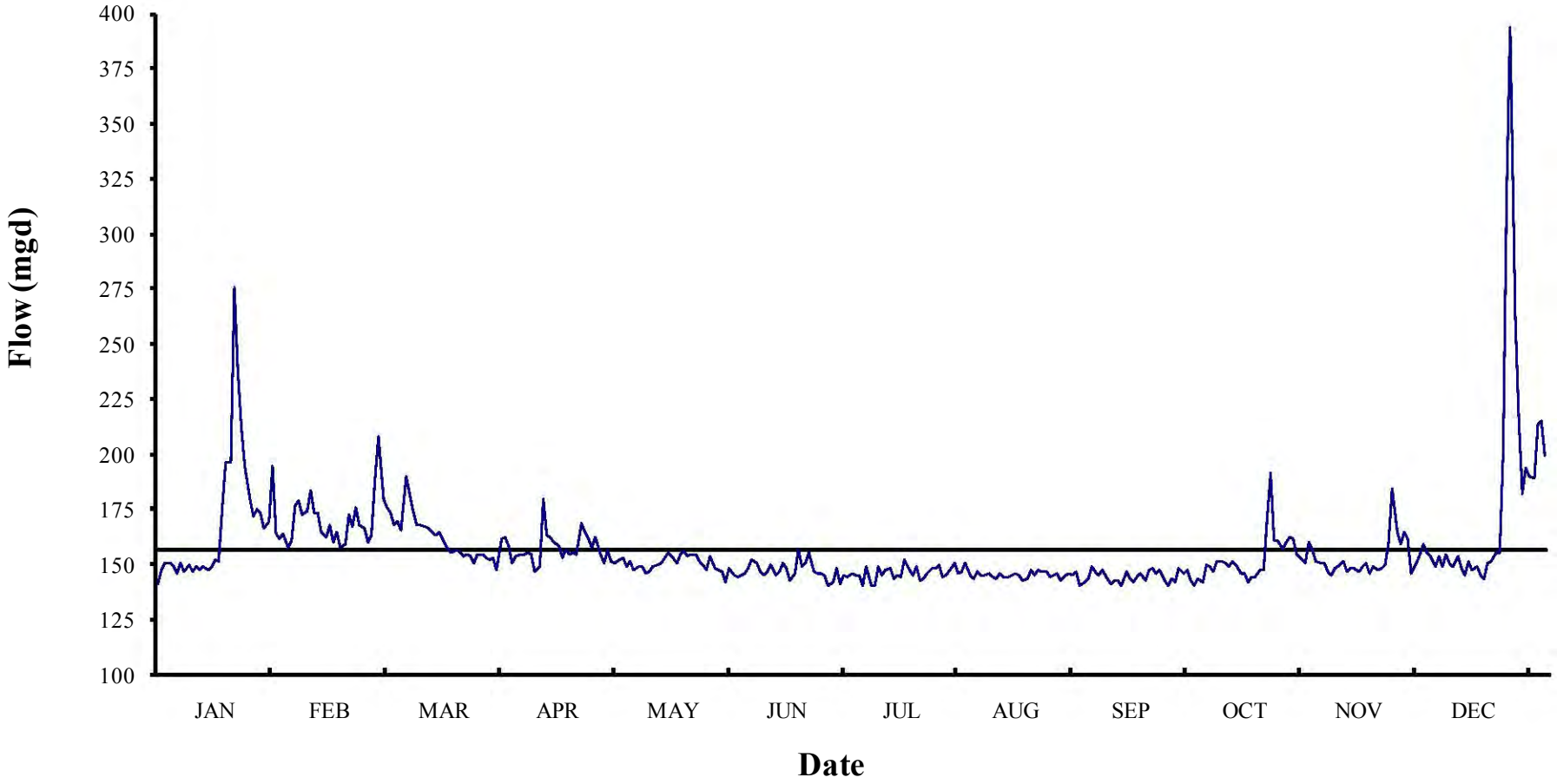
E. Daily Values of Selected Parameters

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.

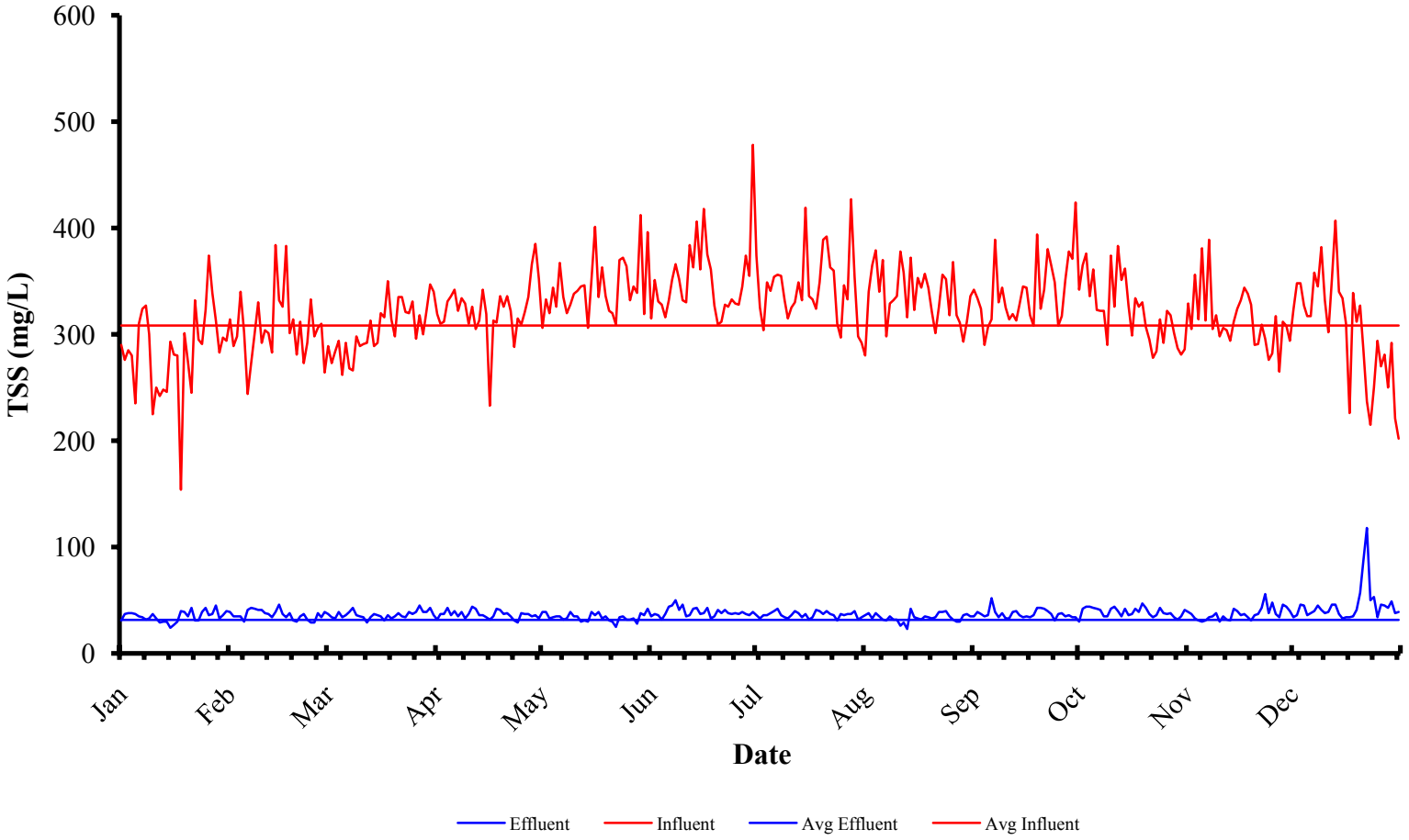
Point Loma Wastewater Treatment Plant
2010 Daily Flows (mgd)



Point Loma Wastewater Treatment Plant
2010 Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	141.4	164.3	180.1	161.4	150.4	144.7	144.2	150.5	141.6	143.5	151.2	153.7	
2	147.5	161.3	175.7	162.3	152.6	144.3	145.7	145.1	143.4	142.0	150.6	149.1	
3	151.0	163.8	173.3	158.3	153.0	145.3	144.8	143.4	148.9	149.6	150.7	154.1	
4	150.4	157.8	167.7	150.7	149.4	146.2	144.8	146.7	146.4	149.3	146.4	149.2	
5	149.0	161.1	169.1	154.1	151.3	148.1	140.1	145.2	144.9	146.6	144.9	154.6	
6	146.1	176.6	165.5	154.3	147.8	151.9	148.6	144.9	147.6	151.5	148.2	150.3	
7	150.2	179.0	189.6	154.6	149.3	151.0	140.7	146.0	143.7	151.4	149.5	148.9	
8	146.8	172.4	181.8	155.3	148.8	146.8	140.1	144.4	141.3	150.2	151.8	153.7	
9	149.6	174.5	174.2	154.2	145.9	144.8	148.8	143.3	143.0	148.8	146.6	148.6	
10	147.0	183.9	168.1	146.9	146.8	146.5	145.0	145.5	142.8	151.4	148.0	145.3	
11	148.8	173.5	168.1	148.8	149.0	149.4	147.3	144.2	140.3	149.8	147.9	151.1	
12	147.7	173.4	166.9	179.4	150.1	145.5	148.1	144.0	146.6	145.7	146.8	147.7	
13	149.0	164.4	166.1	163.1	150.3	146.9	143.6	145.1	143.8	145.7	149.0	148.9	
14	147.2	162.7	164.9	162.3	152.9	150.9	145.1	146.2	142.0	142.2	150.5	145.2	
15	149.1	167.7	163.5	159.9	155.0	148.2	144.5	144.7	143.9	144.4	146.3	143.6	
16	152.2	160.4	164.5	158.3	153.7	142.5	152.5	142.6	146.2	144.1	149.0	150.4	
17	151.6	164.8	159.8	153.0	150.7	145.8	147.8	143.8	142.6	147.2	147.6	151.3	
18	174.8	157.8	156.9	156.8	154.4	157.1	144.7	147.1	147.8	147.6	147.9	155.3	
19	196.5	159.3	155.7	154.2	156.1	149.3	149.1	145.0	148.3	171.1	149.9	155.4	
20	195.9	173.0	156.4	155.0	153.6	150.9	142.9	147.8	146.3	191.2	160.0	201.4	
21	275.4	167.0	156.5	154.6	154.4	155.0	143.7	146.7	147.3	160.6	184.2	318.3	
22	237.7	175.6	153.5	168.8	154.7	146.5	145.6	146.4	142.6	161.1	164.9	393.9	
23	213.1	167.9	154.6	164.5	151.1	146.1	148.1	144.0	140.4	156.7	159.3	261.2	
24	194.8	166.0	153.6	161.3	150.2	145.9	148.1	145.3	143.5	160.3	164.6	216.0	
25	179.5	160.1	150.9	157.4	147.8	145.3	149.9	146.1	142.0	162.1	161.4	182.0	
26	172.1	163.3	154.7	162.4	153.4	140.8	144.0	143.1	148.3	161.3	145.9	193.7	
27	174.9	188.6	154.8	154.5	148.5	142.2	145.3	145.3	146.3	154.3	150.7	190.3	
28	173.1	207.9	153.2	150.9	147.7	148.4	148.0	145.8	147.3	152.2	154.8	189.2	
29	166.4		152.2	156.3	146.6	141.1	150.5	145.2	142.6	150.8	159.6	213.7	
30	169.5		152.6	151.0	142.1	145.2	145.8	146.7	140.4	160.2	155.6	214.9	Annual
31	194.8		147.6		147.9		146.7	140.7		156.5		199.4	Summary
Average	169.1	169.6	163.0	157.5	150.5	147.1	145.9	145.2	144.4	153.2	152.8	181.6	156.7
Minimum	141.4	157.8	147.6	146.9	142.1	140.8	140.1	140.7	140.3	142.0	144.9	143.6	140
Maximum	275.4	207.9	189.6	179.4	156.1	157.1	152.5	150.5	148.9	191.2	184.2	393.9	394
Total	5243.0	4748.0	5051.8	4724.5	4665.3	4412.7	4523.9	4500.5	4332.1	4749.4	4583.5	5630.2	57165

Point Loma Wastewater Treatment Plant
2010 Total Suspended Solids



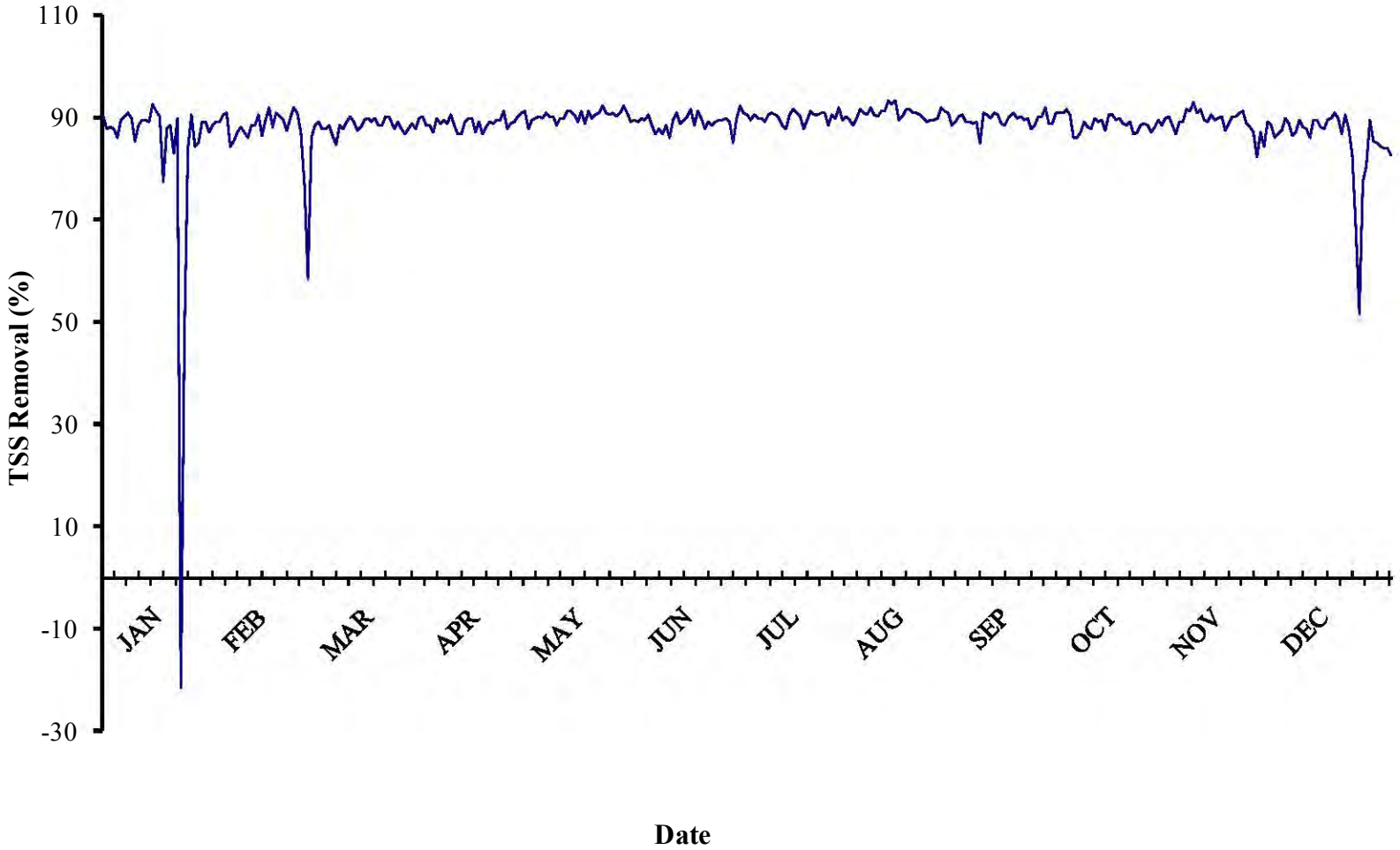
Point Loma Wastewater Treatment Plant

2010 Total Suspended Solids (mg/L)

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
Day	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	290	31	314	39	289	37	319	32	306	39	315	35	374	36	280	36	342	35	342	30	329	39	323	34
2	276	37	289	35	273	34	310	37	333	39	351	37	325	33	340	38	334	39	365	42	305	37	348	36
3	285	38	298	35	284	33	312	37	320	33	331	36	304	36	365	33	324	37	376	44	356	33	348	46
4	280	38	340	35	294	39	331	43	344	34	328	32	349	36	379	38	290	35	336	44	314	31	327	45
5	235	37	302	30	262	34	336	36	326	35	316	37	341	38	340	35	307	36	361	43	381	30	317	36
6	310	35	244	41	292	36	342	40	367	35	332	44	354	40	370	32	314	52	323	42	313	31	317	38
7	324	34	273	43	268	39	322	35	335	32	351	45	356	42	298	31	389	39	322	41	389	34	358	40
8	327	32	301	42	266	43	334	39	320	33	366	50	355	36	329	35	330	34	322	35	305	35	345	45
9	300	33	330	41	298	36	329	33	328	39	352	41	332	34	332	32	344	38	290	35	318	38	382	41
10	225	37	292	41	289	35	310	37	338	35	332	46	315	33	336	32	325	33	374	42	298	30	332	38
11	250	33	304	38	291	34	326	44	341	35	330	35	325	36	378	26	314	33	326	44	306	35	302	39
12	242	29	301	37	292	29	305	42	345	30	384	36	330	40	358	29	319	39	383	40	304	32	352	46
13	248	30	283	34	313	34	313	36	346	31	363	42	349	38	316	23	313	40	351	35	294	31	407	46
14	246	30	384	39	289	37	342	36	306	30	406	43	332	34	372	42	328	36	362	42	312	42	340	37
15	293	24	332	46	292	36	319	34	352	39	361	37	419	37	323	34	345	34	327	36	324	40	334	33
16	281	27	326	37	320	35	233	32	401	36	418	38	336	32	353	33	344	35	299	37	332	36	310	34
17	280	30	383	34	316	31	313	35	335	39	375	43	333	34	344	32	318	34	334	42	344	37	226	34
18	154	40	301	38	350	36	311	42	363	33	361	33	324	41	357	35	308	36	326	39	338	34	339	35
19	301	39	314	31	314	33	336	41	336	35	327	35	349	40	344	34	394	43	330	47	328	31	312	41
20	274	35	281	30	298	35	326	37	322	31	309	41	389	37	321	33	324	43	307	43	290	36	327	57
21	245	43	312	35	335	38	336	38	320	30	312	38	392	40	301	34	342	42	295	37	291	37	286	87
22	332	31	273	37	335	35	322	35	309	25	328	41	363	37	326	39	380	40	278	34	309	43	237	118
23	295	31	292	32	321	34	288	31	370	34	326	38	360	36	356	39	365	37	284	36	296	56	215	50
24	291	39	333	29	320	39	315	29	372	35	333	37	310	31	352	40	349	31	314	43	276	38	250	53
25	323	43	298	29	331	37	309	38	364	32	329	38	297	37	318	35	308	37	292	38	282	48	294	34
26	374	36	306	38	296	39	321	37	332	32	328	37	346	36	368	32	317	38	322	37	317	37	270	46
27	339	37	310	34	318	45	335	37	345	33	345	39	333	37	318	30	351	35	318	38	265	34	281	45
28	313	45	264	39	300	39	366	35	339	28	374	37	427	37	311	30	378	36	301	34	312	46	250	43
29	283	33			323	39	385	36	412	38	355	36	354	40	293	36	371	34	287	32	308	44	292	49
30	297	36			347	43	352	33	319	36	478	39	298	32	312	37	424	34	281	35	294	40	221	38
31	294	40			340	36			396	42			292	34	336	35			286	41			202	39
Avg	284	35	306	36	305	36	323	37	343	34	351	39	344	36	336	34	340	37	323	39	314	37	305	45
Min	154	24	244	29	262	29	233	29	306	25	309	32	292	31	280	23	290	31	278	30	265	30	202	33
Max	374	45	384	46	350	45	385	44	412	42	478	50	427	42	379	42	424	52	383	47	389	56	407	118

Summary	
Inf	Eff
298	34
154	23
478	118

Point Loma Wastewater Treatment Plant
2010 TSS Removal (%) Systemwide

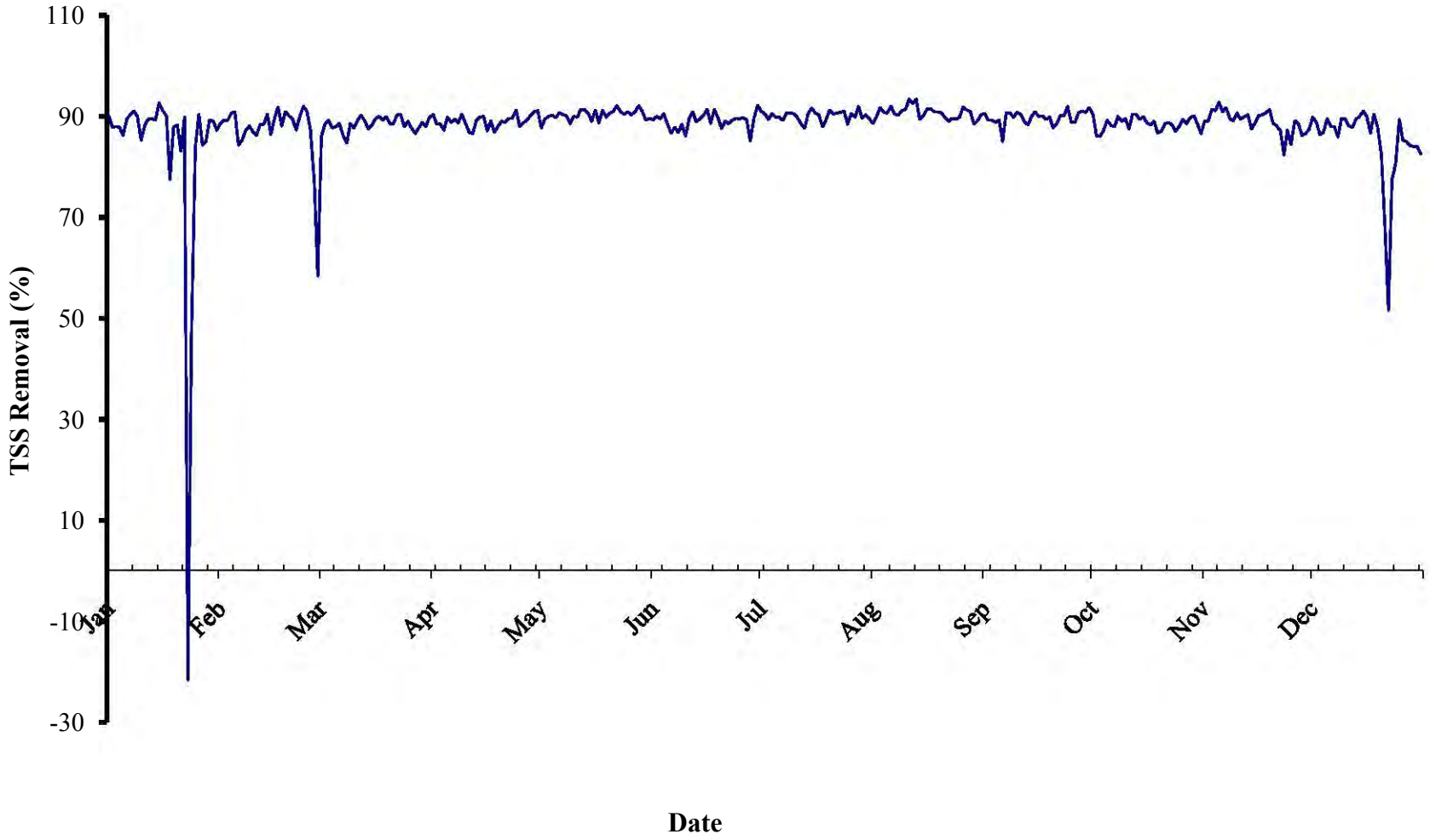


Point Loma Wastewater Treatment Plant

2010 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	89	88	87	90	87	89	90	87	90	91	88	90	
2	87	88	88	88	88	90	90	89	88	89	88	90	
3	87	88	88	88	90	89	88	91	89	88	91	87	
4	86	90	87	87	90	90	90	90	88	87	90	86	
5	84	90	87	89	89	88	89	90	88	88	92	89	
6	89	83	88	88	91	87	89	91	83	87	90	88	
7	90	84	85	89	90	87	88	90	90	87	91	89	
8	90	86	84	88	90	86	90	89	90	89	89	87	
9	89	88	88	90	88	88	90	90	89	88	88	89	
10	84	86	88	88	90	86	90	91	90	89	90	89	
11	87	88	88	87	90	89	89	93	90	87	89	87	
12	88	88	90	86	91	91	88	92	88	90	90	87	
13	88	88	89	89	91	88	89	93	87	90	90	89	
14	88	90	87	90	90	89	90	89	89	88	87	89	
15	92	86	88	89	89	90	91	90	90	89	88	90	
16	90	89	89	86	91	91	91	91	90	88	89	89	
17	89	91	90	89	88	89	90	91	89	87	89	85	
18	74	87	90	87	91	91	87	90	88	88	90	90	
19	87	90	90	88	90	89	89	90	89	86	91	87	
20	87	89	88	89	90	87	91	90	87	86	88	83	
21	82	89	89	89	91	88	90	89	88	88	87	70	
22	91	86	90	89	92	88	90	88	90	88	86	50	
23	90	89	89	89	91	88	90	89	90	87	81	77	
24	87	91	88	91	91	89	90	89	91	86	86	79	
25	87	90	89	88	91	88	88	89	88	87	83	88	
26	90	88	87	89	90	89	90	91	88	89	88	83	
27	89	89	86	89	90	89	89	91	90	88	87	84	
28	86	85	87	90	92	90	91	90	91	89	85	83	
29	88		88	91	91	90	89	88	91	89	86	83	
30	88		88	91	89	92	89	88	92	88	86	83	Annual
31	86		89		89		88	90		86		81	Summary
Avg	87	88	88	89	90	89	89	90	89	88	88	84	88
Min	74	83	84	86	87	86	87	87	83	86	81	50	50
Max	92	91	90	91	92	92	91	93	92	91	92	90	93

Point Loma Wastewater Treatment Plant
2010 TSS Removal (%) Systemwide

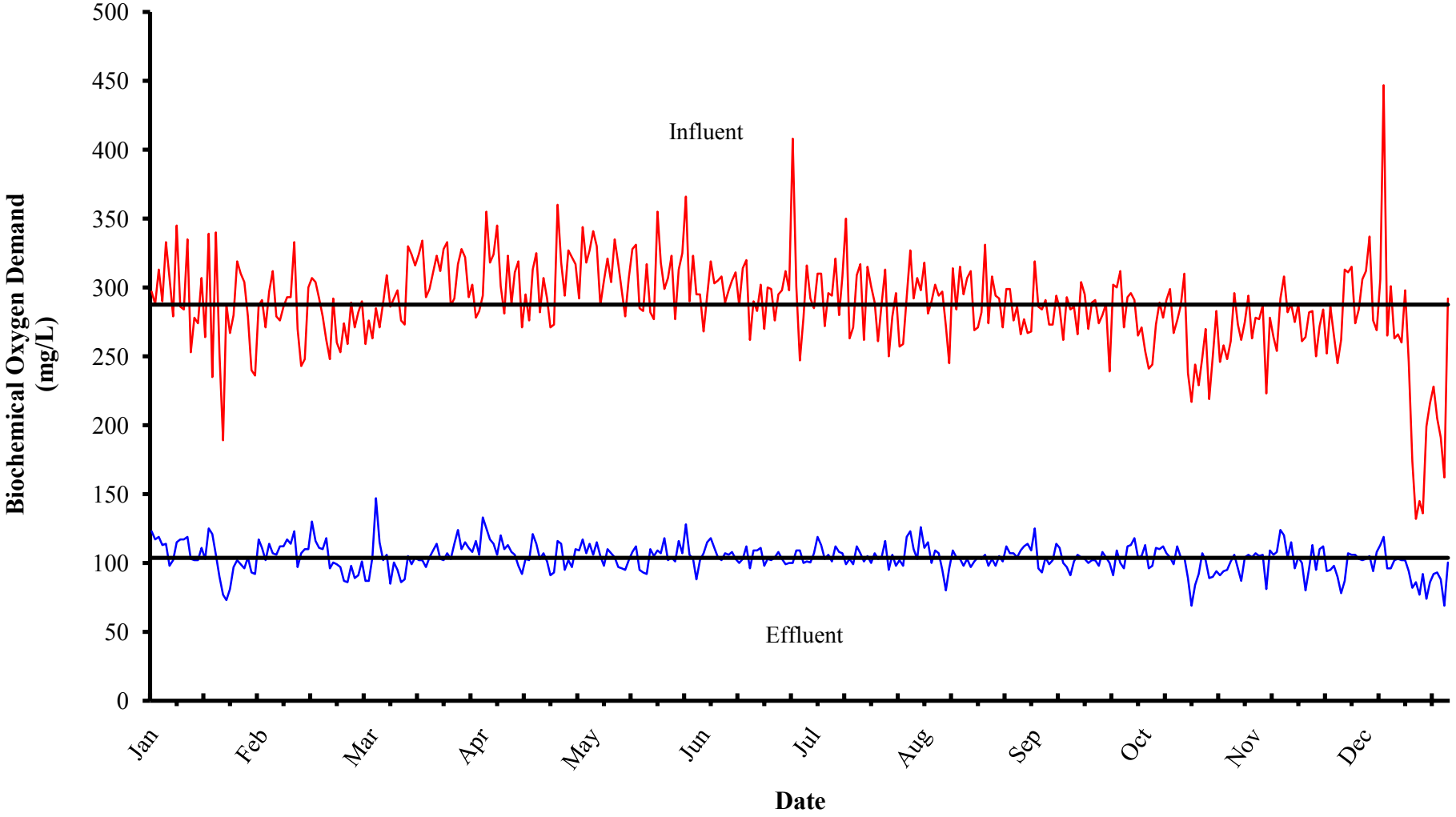


Point Loma Wastewater Treatment Plant

2010Total 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	90	89	86	90	88	89	91	89	91	90.4	89	90	
2	88	89	88	88	89	90	91	90	89	86	89	89	
3	88	89	89	89	90	90	89	92	89	86	91	86	
4	88	91	88	87	90	91	91	91	89	87	91	87	
5	86	91	88	90	90	89	90	91	89	89	93	90	
6	90	84	89	89	91	87	90	92	85	88	91	88	
7	90	85	86	89	90	88	89	90	91	88	92	88	
8	91	87	85	89	90	87	91	90	91	90	90	86	
9	90	88	89	90	89	88	91	91	90	89	89	90	
10	85	87	88	89	90	86	91	91	91	90	91	90	
11	88	86	89	87	90	90	90	93	90	88	89	88	
12	90	88	90	87	91	91	89	93	89	90	90	88	
13	90	88	89	89	91	89	88	93	88	90	90	89	
14	89	90	88	90	91	90	91	89	90	89	88	90	
15	93	86	88	90	89	90	92	90	91	90	89	91	
16	91	90	90	87	91	91	91	91	90	89	90	90	
17	90	92	90	89	89	89	90	92	90	88	90	87	
18	78	88	89	87	91	91	88	91	89	89	91	90	
19	88	91	90	88	90	90	89	91	90	87	91	88	
20	88	90	89	89	91	88	91	91	88	87	89	83	
21	83	90	89	89	91	89	90	90	89	89	88	68	
22	90	87	90	90	92	89	91	89	90	89	87	52	
23	-22	90	90	90	91	89	91	90	90	88	82	78	
24	47	92	88	91	90	90	91	89	92	87	87	80	
25	84	91	89	88	91	90	88	90	89	88	84	89	
26	90	87	88	89	90	90	91	92	89	89	89	85	
27	84	77	87	89	91	89	90	91	91	89	89	85	
28	85	58	88	90	92	85	92	91	91	90	86	84	
29	89		89	91	91	90	90	88	91	90	87	84	
30	89		88	91	89	92	90	89	92	89	87	84	Annual
31	87		90		90		90	90		87		83	Summary
Avg	83	87	88	89	90	89	90	91	90	89	89	85	88
Min	-22	58	85	87	88	85	88	88	85	86	82	52	-22
Max	93	92	90	91	92	92	92	93	92	90	93	91	93

Point Loma Wastewater Treatment Plant
2010 Biochemical Oxygen Demand



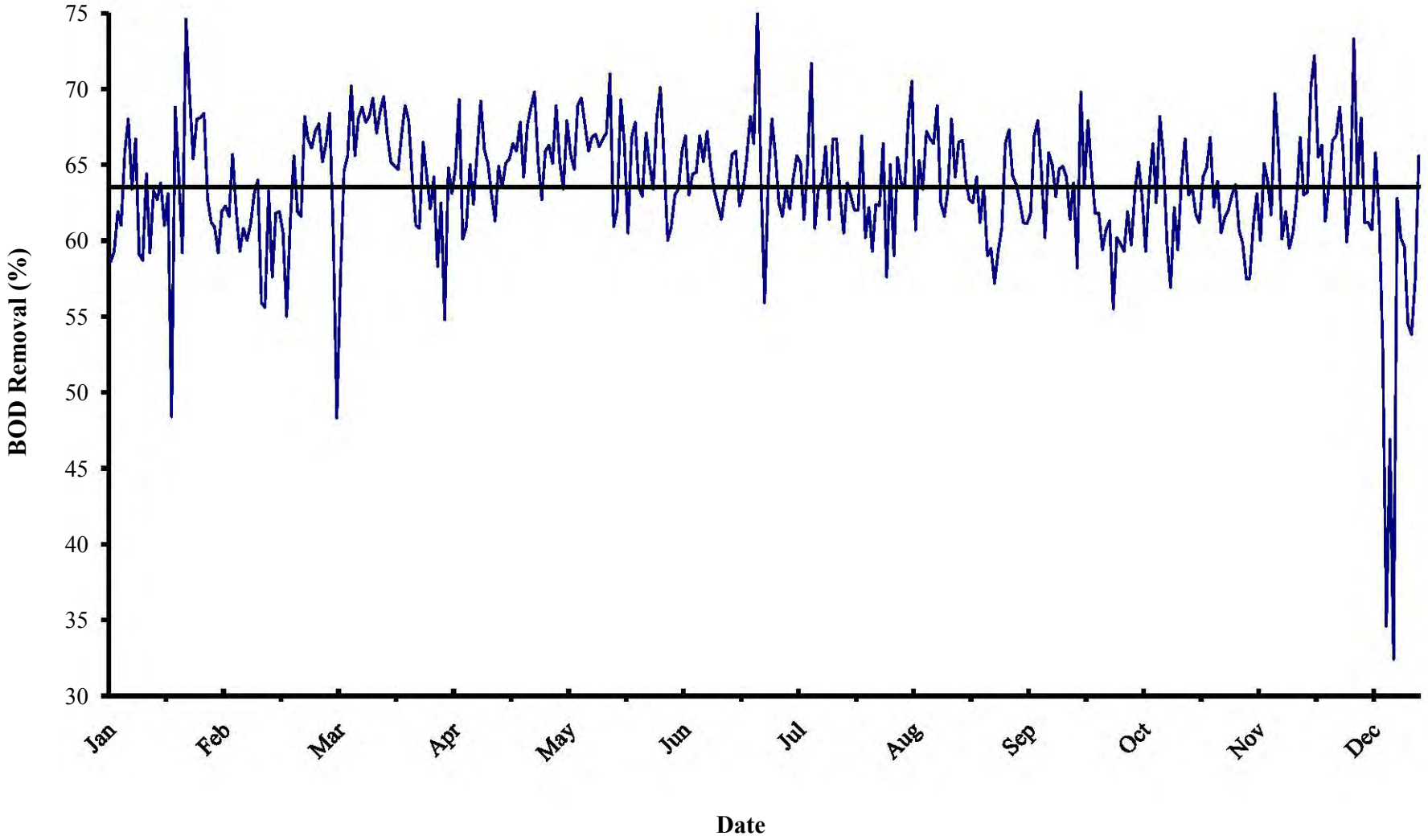
Point Loma Wastewater Treatment Plant

2010 Biochemical Oxygen Demand (mg/L)

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
Day	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	297	123	291	111	290	101	302	108	292	109	290	106	301	109	293	119	286	104	271	96	296	106	262	78
2	288	117	271	102	259	87	278	116	344	117	323	103	247	109	327	123	266	109	293	112	273	96	313	87
3	313	119	297	114	276	87	283	106	318	107	295	88	278	100	292	110	277	112	296	113	262	87	311	107
4	290	113	312	107	263	104	294	133	327	114	295	102	316	101	307	103	267	114	291	118	275	104	315	106
5	333	114	279	106	285	147	355	125	341	106	268	107	292	100	298	126	268	109	265	104	294	106	274	106
6	307	98	276	112	271	115	318	117	330	115	294	115	285	107	318	111	319	125	271	105	263	104	284	103
7	279	102	286	112	289	102	324	114	287	105	319	118	310	119	281	115	286	96	254	113	278	107	306	102
8	345	115	293	117	309	106	345	106	305	98	303	111	310	113	290	100	284	93	241	96	277	105	312	103
9	286	117	293	114	286	85	301	120	321	110	305	104	272	103	302	109	291	104	244	98	287	106	337	105
10	284	117	333	123	292	100	281	110	304	107	308	102	296	106	294	107	273	99	273	111	223	81	276	94
11	335	119	270	97	298	95	323	113	335	104	289	107	294	101	297	95	273	102	289	110	278	109	269	108
12	253	103	243	107	276	86	288	108	317	97	298	106	321	112	272	80	294	114	278	112	264	106	306	113
13	278	102	248	110	273	88	311	106	297	96	305	108	280	108	245	96	285	111	291	107	254	108	447	119
14	274	102	300	110	330	105	319	98	279	95	311	103	308	107	314	109	262	100	299	104	292	124	265	96
15	307	111	307	130	324	99	271	92	307	102	287	100	350	99	284	104	293	97	267	99	308	120	301	96
16	264	103	304	116	316	104	295	103	328	108	314	103	263	103	315	103	284	91	276	112	282	104	263	102
17	339	125	292	111	324	102	276	102	331	112	320	112	271	99	295	98	286	101	287	104	288	115	266	103
18	235	121	279	110	334	102	313	121	285	95	262	96	309	112	307	103	266	106	310	104	275	96	260	102
19	340	106	262	118	293	97	325	114	283	93	290	109	317	107	312	97	304	104	238	89	288	104	298	102
20	252	90	248	96	299	104	282	103	317	92	283	109	262	101	269	101	295	103	217	69	261	100	246	94
21	189	77	292	100	311	109	307	107	282	110	302	111	315	105	271	104	270	100	244	84	264	80	174	82
22	288	73	260	99	323	114	292	101	277	105	270	98	301	100	282	103	289	102	229	92	282	96	132	86
23	267	81	253	97	312	103	271	91	355	109	300	103	289	107	331	106	291	102	249	107	283	113	145	77
24	280	97	274	87	328	102	273	93	318	107	299	102	261	103	274	98	274	98	270	102	250	95	136	92
25	319	102	259	86	333	107	360	116	299	118	276	104	288	104	308	103	280	108	219	89	272	110	199	74
26	310	99	289	98	287	103	318	114	307	102	295	108	313	116	294	98	288	104	250	90	284	112	216	86
27	304	96	271	89	292	114	294	95	323	104	298	103	250	95	292	105	239	100	283	94	252	94	228	92
28	279	104	282	91	317	124	327	102	277	101	312	99	279	106	271	101	302	91	246	91	286	95	205	93
29	240	93			328	110	322	97	313	116	298	100	296	98	299	112	300	109	258	94	265	98	191	88
30	236	92			322	115	317	110	325	107	408	100	257	102	299	107	312	100	248	95	245	90	162	69
31	287	117			293	111			366	128			259	98	276	107			261	101			292	100
Avg	287	104	281	106	301	104	306	108	311	105	301	105	291	105	294	105	283	104	265	100	273	102	257	96
Min	189	73	243	86	259	85	271	91	277	92	262	88	247	95	245	80	239	91	217	69	223	80	132	69
Max	345	125	333	130	334	147	360	133	366	128	408	118	350	119	331	126	319	125	310	118	308	124	447	119

Summary	
Inf	Eff
288	103
132	69
447	147

Point Loma Wastwater Treatment
2010 BOD Removal (%) at Point Loma

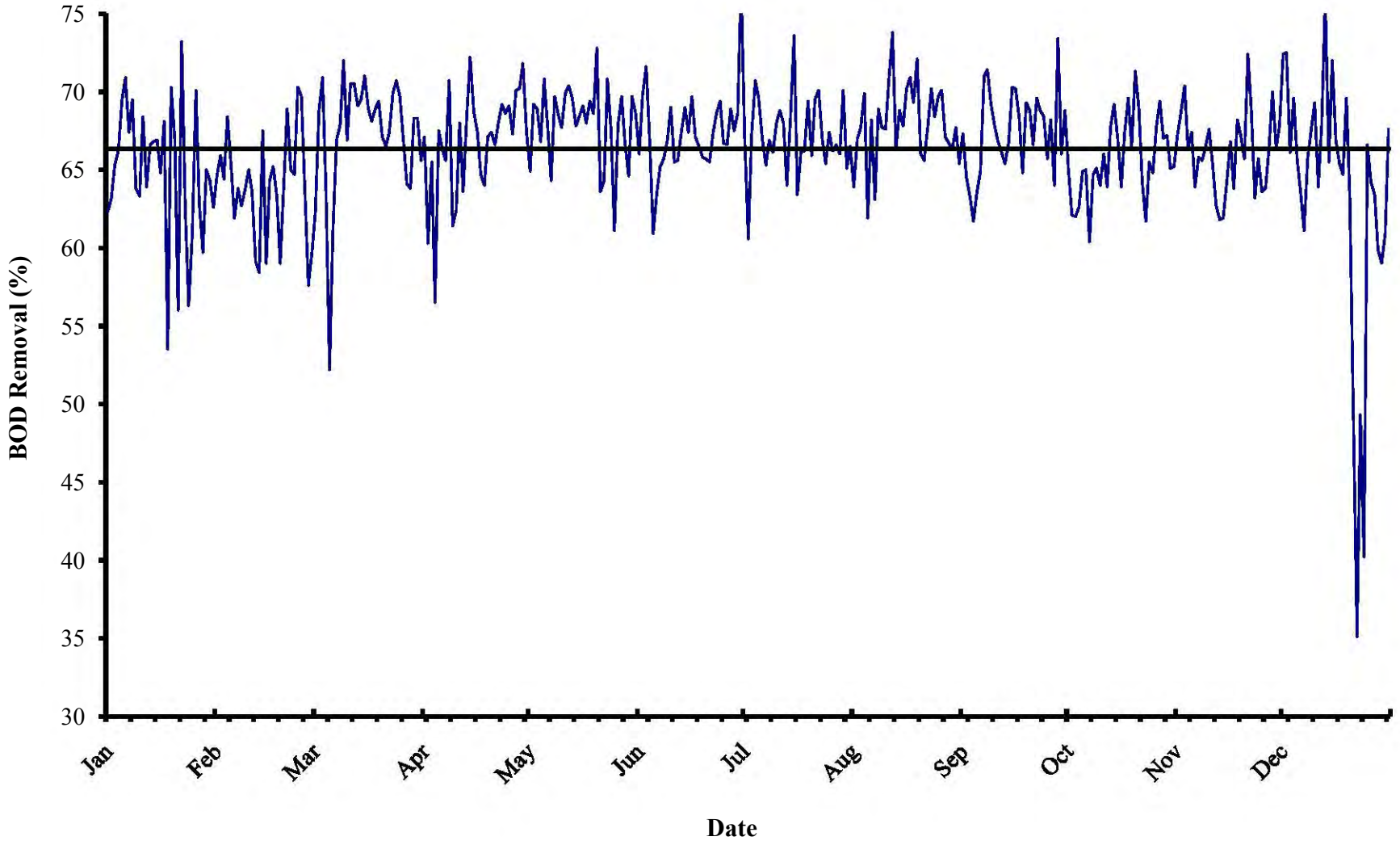


Point Loma Wastewater Treatment Plant

2010 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	58.6	62	65	64	63	63	64	59.3	64	65	64.2	70	
2	59	62	66	58	66	68	56	62	59	62	65	72	
3	62	62	68	63	66	70	64	62	60	62	67	66	
4	61	66	60	55	65	65	68	66	57	59	62	66	
5	66	62	48	65	69	60	66	58	59	61	64	61	
6	68	59	58	63	65	61	63	65	61	61	61	64	
7	63	61	65	65	63	63	62	59	66	56	62	67	
8	67	60	66	69	68	63	64	66	67	60	62	67	
9	59	61	70	60	66	66	62	64	64	60	63	69	
10	59	63	66	61	65	67	64	64	64	59	64	66	
11	64	64	68	65	69	63	66	68	63	62	61	60	
12	59	56	69	62	69	64	65	71	61	60	60	63	
13	63	56	68	66	68	65	61	61	61	63	58	73	
14	63	63	68	69	66	67	65	65	62	65	58	64	
15	64	58	69	66	67	65	72	63	67	63	61	68	
16	61	62	67	65	67	67	61	67	68	59	63	61	
17	63	62	69	63	66	65	64	67	65	64	60	61	
18	48	61	70	61	67	63	64	66	60	66	65	61	
19	69	55	67	65	67	62	66	69	66	63	64	66	
20	64	61	65	64	71	61	61	63	65	68	62	62	
21	59	66	65	65	61	63	67	62	63	66	70	53	
22	75	62	65	65	62	64	67	63	65	60	66	35	
23	70	62	67	66	69	66	63	68	65	57	60	47	
24	65	68	69	66	66	66	61	64	64	62	62	32	
25	68	67	68	68	61	62	64	67	61	59	60	63	
26	68	66	64	64	67	63	63	67	64	64	61	60	
27	68	67	61	68	68	65	62	64	58	67	63	60	
28	63	68	61	69	64	68	62	63	70	63	67	55	
29	61		67	70	63	66	67	63	64	64	63	54	
30	61		64	65	67	76	60	64	68	62	63	57	
31	59		62		65		62	61		61		66	Annual Summary
Avg	63.2	62.1	65.3	64.5	66.0	65.0	63.6	64.2	63.3	62.0	62.5	60.9	63.5
Min	48.4	55.0	48.3	54.8	60.5	60.0	55.9	57.6	57.2	55.5	57.5	32.4	32.4
Max	74.6	68.2	70.2	69.8	71.0	75.5	71.7	70.5	69.8	68.2	69.7	73.3	75.5

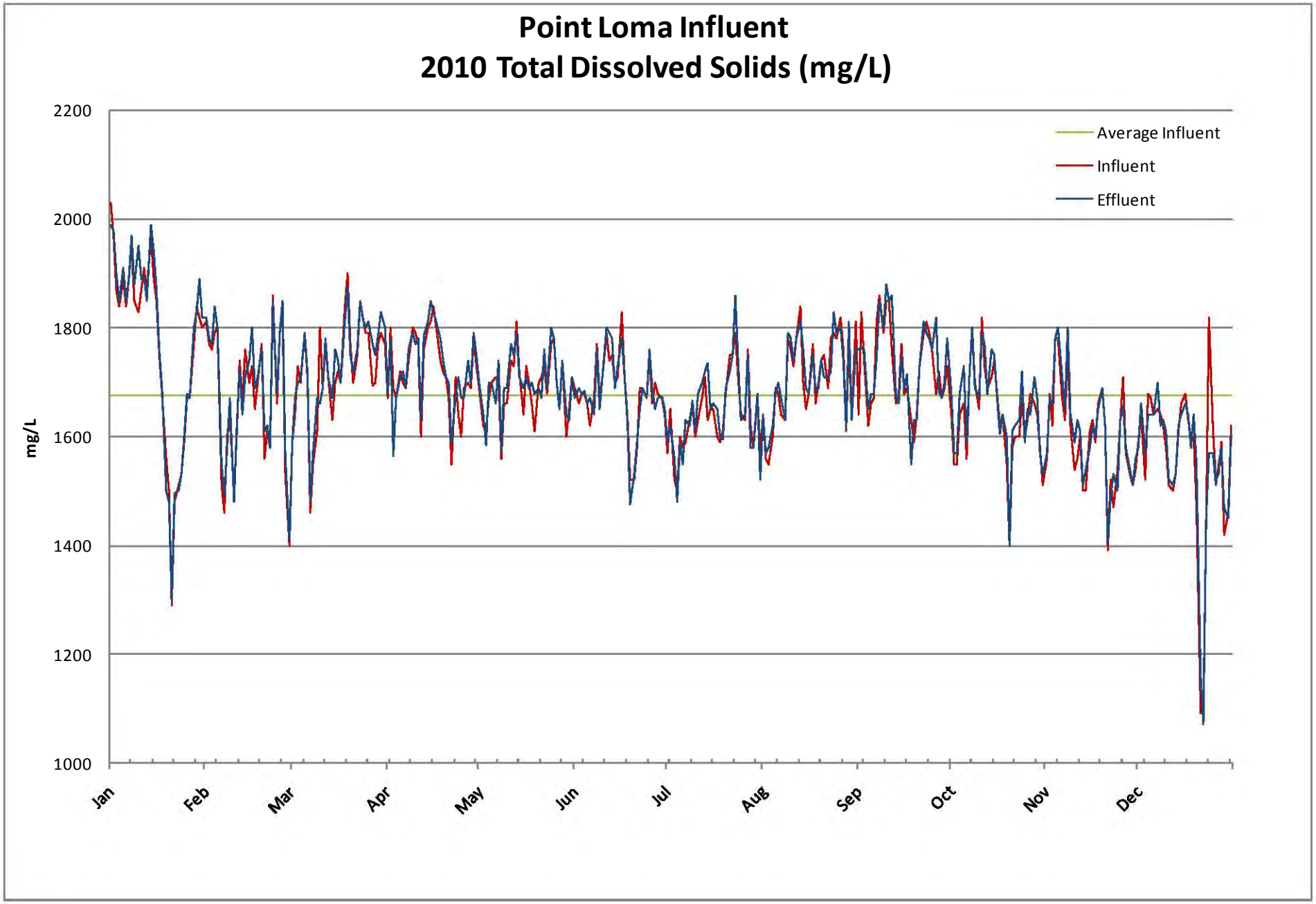
Point Loma Wastewater Treatment Plant
2010 BOD Removal (%) Systemwide



Point Loma Wastewater Treatment Plant

2010 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	62	65	62	67	65	66	67	64	67	65	67	72	
2	63	66	69	60	69	70	61	67	65	62	69	73	
3	65	64	71	66	69	72	67	68	63	62	70	66	
4	66	68	64	57	67	67	71	70	62	63	66	70	
5	70	65	52	68	71	61	70	62	64	65	67	66	
6	71	62	61	66	68	64	67	68	65	65	64	64	
7	67	64	67	66	64	65	65	63	71	60	66	61	
8	70	63	68	71	70	66	67	69	71	65	66	66	
9	64	64	72	61	69	67	66	68	69	65	67	68	
10	63	65	67	62	68	69	68	68	68	64	68	69	
11	68	64	71	68	70	66	69	71	67	66	65	64	
12	64	59	71	64	70	66	68	74	66	64	63	68	
13	67	58	69	69	70	67	64	66	65	68	62	76	
14	67	68	70	72	68	69	68	69	67	69	62	66	
15	67	59	71	69	68	67	74	68	70	67	64	72	
16	65	64	69	67	69	70	63	70	70	64	67	67	
17	68	65	68	65	68	67	66	71	68	67	64	65	
18	54	63	69	64	69	67	66	69	65	70	68	65	
19	70	59	69	67	69	66	69	72	69	66	67	70	
20	67	64	67	67	73	66	66	66	69	71	66	63	
21	56	69	67	67	64	66	70	66	67	69	72	49	
22	73	65	67	68	64	67	70	68	70	64	69	35	
23	62	65	70	69	71	69	67	70	69	62	63	49	
24	56	70	71	69	68	69	65	68	68	66	66	40	
25	61	70	70	69	61	67	67	70	66	65	64	67	
26	70	64	67	67	68	67	66	70	68	68	64	64	
27	63	58	64	70	70	69	67	67	64	69	66	63	
28	60	60	64	70	67	68	66	67	73	67	70	60	
29	65		68	72	65	69	70	66	66	67	66	59	
30	64		68	67	70	77	65	68	69	65	68	61	Annual
31	63		66		69		67	65		65		68	Summary
Avg	65.0	63.9	67.3	66.6	68.0	67.0	67.2	68.1	67.4	65.6	66.1	63.4	66.3
Min	53.5	57.6	52.2	56.5	61.1	60.9	60.6	61.9	61.7	60.4	61.8	35.1	35.1
Max	73.2	70.3	72.0	72.2	72.8	77.0	73.6	73.8	73.4	71.3	72.4	76.0	77.0


Point Loma Influent
2010 Total Dissolved Solids (mg/L)
2200
2000
1800
1600
1400
1200
1000
mg/L
Average Influent
Influent
Effluent
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec

Point Loma Wastewater Treatment Plant

2010 Total Dissolved Solids (mg/L)

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
Day	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	2030	1990	1810	1820	1590	1590	1670	1680	1690	1700	1690	1670	1570	1590	1640	1640	1640	1760	1640	1680	1560	1570	1590	1580
2	1970	1980	1770	1780	1640	1670	1800	1780	1620	1640	1660	1690	1650	1620	1560	1570	1830	1765	1550	1570	1680	1670	1640	1660
3	1870	1900	1760	1770	1730	1700	1690	1565	1610	1585	1680	1680	1520	1560	1550	1580	1740	1760	1550	1570	1620	1660	1520	1570
4	1840	1850	1790	1840	1700	1705	1670	1670	1670	1700	1680	1685	1500	1480	1600	1620	1620	1650	1640	1680	1780	1780	1680	1640
5	1890	1910	1800	1800	1790	1790	1720	1710	1700	1700	1660	1660	1600	1590	1690	1680	1660	1680	1660	1730	1780	1800	1670	1640
6	1840	1850	1510	1550	1710	1720	1700	1720	1710	1660	1620	1670	1580	1550	1680	1700	1670	1680	1560	1590	1670	1710	1640	1640
7	1890	1890	1460	1490	1460	1480	1690	1690	1710	1740	1670	1640	1590	1630	1640	1670	1810	1745	1710	1710	1630	1650	1650	1700
8	1950	1970	1600	1580	1550	1570	1740	1760	1560	1575	1770	1760	1630	1620	1630	1630	1860	1850	1800	1800	1760	1800	1640	1620
9	1850	1880	1640	1670	1610	1670	1800	1790	1660	1690	1670	1650	1660	1665	1780	1790	1790	1800	1700	1690	1620	1640	1620	1630
10	1830	1950	1490	1480	1800	1660	1790	1770	1660	1690	1710	1710	1600	1610	1760	1780	1850	1880	1650	1670	1540	1590	1580	1610
11	1870	1890	1610	1620	1690	1690	1770	1780	1740	1770	1790	1800	1630	1680	1730	1740	1850	1850	1820	1790	1560	1630	1510	1520
12	1910	1895	1740	1725	1770	1780	1600	1630	1730	1750	1740	1790	1670	1700	1780	1780	1760	1860	1730	1770	1600	1610	1500	1510
13	1870	1850	1660	1640	1710	1710	1760	1785	1810	1790	1750	1780	1710	1720	1840	1810	1660	1670	1690	1680	1500	1510	1530	1530
14	1970	1990	1760	1710	1630	1670	1800	1810	1720	1710	1700	1690	1630	1735	1700	1760	1680	1660	1710	1760	1500	1540	1610	1620
15	1890	1940	1700	1740	1700	1760	1810	1850	1640	1690	1710	1730	1650	1650	1650	1690	1770	1750	1740	1750	1610	1580	1660	1640
16	1850	1870	1730	1800	1720	1740	1840	1830	1730	1710	1830	1780	1650	1660	1680	1680	1680	1690	1680	1670	1630	1620	1680	1660
17	1750	1760	1650	1690	1700	1700	1800	1810	1700	1690	1710	1710	1600	1650	1770	1750	1690	1715	1620	1605	1590	1600	1630	1640
18	1680	1690	1700	1710	1840	1810	1740	1780	1660	1700	1640	1630	1590	1600	1660	1685	1630	1550	1640	1640	1660	1650	1600	1580
19	1560	1500	1770	1760	1900	1875	1720	1740	1610	1680	1520	1475	1610	1595	1700	1690	1590	1630	1550	1600	1690	1690	1600	1640
20	1500	1480	1560	1610	1770	1750	1710	1710	1700	1690	1520	1530	1680	1690	1740	1740	1640	1630	1400	1400	1620	1620	1470	1550
21	1290	1300	1610	1620	1700	1720	1670	1700	1710	1670	1580	1590	1750	1720	1750	1710	1730	1730	1580	1610	1390	1405	1090	1160
22	1480	1495	1580	1580	1750	1760	1550	1590	1730	1760	1690	1650	1750	1750	1690	1710	1790	1810	1600	1620	1520	1490	1100	1070
23	1510	1500	1860	1850	1850	1850	1710	1675	1680	1690	1690	1690	1790	1860	1780	1720	1810	1790	1600	1630	1470	1530	1440	1450
24	1530	1530	1660	1680	1820	1815	1640	1710	1770	1800	1670	1670	1710	1740	1790	1830	1790	1780	1670	1720	1540	1500	1820	1570
25	1590	1600	1790	1790	1790	1800	1600	1670	1780	1780	1750	1760	1640	1630	1780	1790	1760	1760	1600	1590	1630	1630	1610	1570
26	1670	1680	1830	1850	1790	1810	1690	1670	1700	1700	1660	1690	1630	1640	1820	1800	1680	1820	1630	1650	1710	1655	1520	1510
27	1670	1670	1530	1565	1695	1770	1700	1740	1650	1650	1700	1650	1760	1750	1760	1740	1720	1685	1680	1640	1570	1580	1530	1550
28	1770	1800	1400	1410	1700	1750	1690	1700	1740	1740	1680	1670	1620	1580	1610	1615	1670	1670	1660	1710	1530	1540	1590	1580
29	1840	1830			1770	1785	1780	1790	1600	1640	1670	1675	1580	1580	1780	1810	1690	1700	1640	1670	1510	1510	1420	1470
30	1820	1890			1790	1830	1730	1750	1650	1630	1640	1650	1670	1680	1630	1630	1730	1780	1580	1570	1540	1560	1460	1450
31	1800	1820			1770	1800			1710	1710			1570	1520	1810	1760			1510	1530			1620	1605
Avg	1767	1779	1670	1683	1724	1733	1719	1729	1689	1698	1682	1681	1638	1647	1709	1713	1726	1737	1638	1655	1600	1611	1555	1554
Min	1290	1300	1400	1410	1460	1480	1550	1565	1560	1575	1520	1475	1500	1480	1550	1570	1590	1550	1400	1400	1390	1405	1090	1070
Max	2030	1990	1860	1850	1900	1875	1840	1850	1810	1800	1830	1800	1790	1860	1840	1830	1860	1880	1820	1800	1780	1800	1820	1700

Summary	
Influent	Effluent
1677	1685
1090	1070
2030	1990

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F. Toxicity Bioassays

Toxicity Testing: Point Loma Wastewater Treatment Plant Effluent, 2010

INTRODUCTION

The City of San Diego's Toxicology Laboratory (CSDTL) conducted aquatic toxicity tests (bioassays) as required by its NPDES Permit No. CA0107409 (Order No. R9-2002-0025 from January 1 to July 31, 2010; Order No. R9-2009-0001 from August 1 to December 31, 2010) for the Point Loma Wastewater Treatment Plant (PLWTP). The testing requirements are designed to determine the acute and chronic toxicity of effluent samples collected from the PLWTP. This chapter presents summaries and discussion of the toxicity tests conducted in 2010.

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 bioassays are characterized by the duration of exposure of test organisms 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 of PLWTP effluent on a semiannual schedule.

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 monthly critical/early life stage chronic tests of PLWTP effluent 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 ºC 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). Unimpacted receiving water was used as dilution water in accordance with permit requirements. 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 2m and stored at 4ºC 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 ºC, and used within 96 hours of collection. Detailed methodology for all toxicity testing is described in the City of San Diego Toxicology Laboratory Quality Assurance Manual (City of San Diego 2010).

Acute Bioassays

Topsmelt Survival Bioassay

Acute bioassays using the topsmelt *Atherinops affinis* were conducted as a part of the mandated multiple-species screening effort in November 2010 in accordance with USEPA protocol EPA/600/4-90/027F (USEPA 1993). Larval topsmelt (9-14 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 topsmelt (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. Dilution water was obtained from SIO, filtered, held at 4 ºC, and used within 96 hours of collection. Upon conclusion 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 (Tidepool Scientific Software 2002) and CETIS (Tidepool Scientific Software 2010) were used for all statistical analyses.

Mysid Survival Bioassay

Acute bioassays using the incumbent most-sensitive species, the mysid shrimp *Mysidopsis bahia*, were conducted in March 2010 in accordance with USEPA protocol EPA/600/4-90/027F (USEPA 1993). A second series of acute mysid bioassays were conducted in November 2010 as a part of the mandated multiple-species screening effort. 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 (Tidepool Scientific Software 2002) and CETIS (Tidepool Scientific Software 2010) were 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 2010 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 at 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 the 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 (Tidepool Scientific Software 2002) and CETIS (Tidepool Scientific Software 2010) were used for all statistical analyses.

Red Abalone Development Bioassay

Chronic bioassays using the red abalone *Haliotis rufescens* were conducted each month during 2010 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 CSDTL. Mature male and female abalones were placed in gender-specific natural seawater tanks and held at 15 ºC. 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 (Tidepool Scientific

Software 2002) and CETIS (Tidepool Scientific Software 2010) were used for all statistical analyses.

During the first half of 2010, the red abalone bioassays exhibited a unusually high rate of failure, which was largely attributed to the high proportion of undivided (unicellular) embryos. Beginning in June 2010, the red abalone tests were scored both inclusive and exclusive of unicellular embryos, which can be indicative of poor animal quality. As shown in previous studies, the inclusive scoring method induced greater variability and reduced test sensitivity. Moreover, data from past and present studies showed no association between the distribution of unicellular embryos and exposure to the reference toxicant, which further support the use of the exclusive method in scoring the red abalone tests.

Topsmelt Survival and Growth Bioassays

Chronic bioassays using the topsmelt *Atherinops affinis* were conducted as a part of the mandated multiple-species screening effort from August to December 2010 in accordance with EPA/600/R-95/136 (USEPA 1995). Larval topsmelt (9-14 days old) were purchased from Aquatic Bio Systems (Fort Collins, CO) and exposed for seven days in a static-renewal system to the effluent. The test endpoints are survival and growth (dry biomass).

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 SIO seawater control was also tested.

Upon conclusion of the exposure period, percent survival and dry biomass were recorded. ToxCalc (Tidepool Scientific Software 2002) and CETIS (Tidepool Scientific Software 2010) were used for all statistical analyses.

RESULTS & DISCUSSION

Acute Toxicity of PLWTP Effluent

In 2010, two semi-annual acute toxicity tests were conducted using mysids and one acute toxicity test was conducted using the topsmelt. The incumbent most-sensitive species, *Mysidopsis bahia*, was first tested in March 2010. Followingsubsequent implementation of Order No. R9-2009-0001 (effective August 1, 2010), a side-by-side screening of mysid versus topsmelt bioassays for sensitivity was conducted in November 2010. All tests met the acceptability criterion of >90% control survival and demonstrated compliance with permit standards (Table T.1). The City will conduct two additional acute screening events in order to select the most sensitivity species for routine acute toxicity monitoring.

Chronic Toxicity of PLWTP Effluent

In 2010, the City conducted monthly chronic toxicity tests using the giant kelp (*Macrocystis pyrifera*), which is the most sensitive species mandated by the compliance monitoring program. The results are summarized in Table T.2. All valid tests from 2010 were within compliance limits.

The City also conducted chronic bioassays using the red abalone (*Haliotis rufescens*) on a voluntary basis due to the ecological significance of the species. The previously described inclusive and exclusive scoring methods yielded identical findings (i.e. NOEC) in the effluent tests (Table T.2). All valid tests from 2010 were within compliance limits.

In accordance with renewal of NPDES Permit No. CA0107409) for the PLWTP (Order No. R9-2009-00010), which became effective August 1, 2010, the City conducted additional monthly chronic toxicity tests using the topsmelt in order to compare the sensitivity of giant kelp, red abalone, and topsmelt to the PLWTP effluent. These screening studies are scheduled for completion in 2011. All valid tests from 2010 were within compliance limits.

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TABLE T.1

Results and compliance summary of acute bioassays conducted using PLWTP effluent during 2010. Data are presented acute toxic units (TUa).

Sample Date	Topsmelt 96-Hour Bioassay	Mysid 96-Hour Bioassay
03/21/2010 [1]	-	2.50
11/14/2010 [2]	2.96	2.91
N	1	2
No. in compliance	1	2
Mean TUa	2.96	2.71

1. The 2001 California Ocean Plan compliance limit is 6.50 TUa.
2. The 2005 California Ocean Plan compliance limit is 6.42 TUa.

TABLE T.2

Results of chronic toxicity testing of PLWTP effluent from January through December 2010. Data are presented chronic toxic units (TUc).

	Giant Kelp		Red Abalone		Topsmelt	
	Germination	Growth	Development		Survival	Growth
Sample Date			Exclusive	Inclusive		
01/04/2010	64	64	-	-	-	-
01/20/2010	-	-	-	64	-	-
02/08/2010	64	64	-	-	-	-
02/16/2010	-	-	-	Not valid	-	-
02/25/2010	-	-	-	Not valid	-	-
03/09/2010	-	-	-	Not valid	-	-
03/15/2010	64	64	-	64	-	-
04/05/2010	64	64	-	-	-	-
04/12/2010	-	-	-	64	-	-
05/03/2010	64	64	-	-	-	-
05/11/2010	-	-	-	Not valid	-	-
05/24/2010	-	-	-	Not valid	-	-
06/14/2010	64	64	-	-	-	-
06/22/2010	-	-	64	64	-	-
07/07/2010	Not valid	Not valid	-	-	-	-
07/13/2010	64	204	-	-	-	-
07/19/2010	-	-	64	64	-	-
08/09/2010	64	64	64	64	64	64
09/19/2010	64	64	64	64	64	64
10/09/2010	64	64	Not valid	Not valid	64	64
11/01/2010	64	64	Not valid	Not valid	64	64
12/13/2010	Not valid	Not valid	64	64	64	64
N	11	11	5	8	5	5
No. in compliance	11	11	5	8	5	5
Mean TUc	68	77	64	64	64	64

The NPDES permit limit is 205 TUc.

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G. 6-Year Tables

ARSENIC (ug/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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			1.35	2.31	3.93	1.38	2.13	1.49			1.94	1.14	1.28	0.71	2.13	1.6	1.1	0.51	1.68	0.53			1.71	1.13
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	0.64	1.66	1.33	1.09	0.5	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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	1.17	0.6	0.83	0.5	0.91	0.57	0.99	0.65	0.95	0.77	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	0.59	0.82	0.5	0.76	0.62	0.96	0.63			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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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		
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	0.93	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	0.71	1.35	0.96			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

ARSENIC (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	0.97	0.71	1.13	0.50	1.28	0.48	0.93	0.58			1.36	0.90	0.90	0.72	1.06	0.75	1.29	0.86	1.19	0.87			1.22	0.81
2	1.63	0.64	1.89	0.58	1.01	0.45	1.14	0.88	1.28	0.98	1.13	0.71	1.23	0.71	1.27	0.82	0.97	0.71	1.30	0.66	0.87	0.79	1.10	0.72
3	0.91	0.50	1.23	0.58	1.07	0.43	1.27	0.69	1.39	0.95	1.06	0.91	1.19	0.73	1.16	0.96	1.03	0.84	1.24	0.73	1.01	0.72	2.85	1.55
4	1.21	0.55	1.38	0.79	0.82	0.69	1.30	0.86	1.34	0.95	1.03	0.54	1.19	0.77	1.34	0.91	1.15	0.84	1.20	0.83	1.05	0.68	1.48	1.07
Avg	1.18	0.60	1.41	0.61	1.05	0.51	1.16	0.75	1.34	0.96	1.15	0.77	1.13	0.73	1.21	0.86	1.11	0.81	1.23	0.77	0.98	0.73	1.66	1.04

ARSENIC (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	1.16	0.86	1.04	0.58			1.18	0.66	1.02	0.66	0.54	0.76	1.08	0.59	1.78	1.22			1.58	0.78	0.97	0.68	1.15	0.81
2	0.75	0.65	1.35	0.89	0.97	0.42	1.34	0.56	1.02	1.02	1.21	0.78	1.13	0.68	1.70	1.07	1.52	1.09	0.91	0.75	0.83	0.70	1.28	0.83
3	1.08	0.65	1.24	0.88	1.02	<0.40	1.22	0.89	1.40	0.88	1.23	0.88	1.15	0.78	1.32	1.12	1.56	1.12	1.15	0.81	1.10	0.84	1.04	0.59
4	1	0.66	1.14	0.88	1.09	0.70	1.00	0.66	1.42	0.79	0.84	0.59	1.01	0.79	1.47	1.09	1.45	1.08	1.11	0.87	1.10	0.89	1.04	0.61
Avg	0.9975	0.71	1.19	0.81	1.03	0.37	1.19	0.69	1.22	0.84	0.96	0.75	1.09	0.71	1.57	1.13	1.51	1.10	1.19	0.80	1.00	0.78	1.13	0.71

ARSENIC (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	1.16	0.82	1.58	0.82	1.39	0.82	1.13	0.95	1.52	0.91	1.38	0.79	1.01	0.70	1.32	1.06	1.29	1.15	1.23	0.84	0.87	0.95		
2	1.07	0.53	1.28	0.90	1.87	0.96	1.93	0.95	1.14	0.61	1.20	0.83	0.85	0.62	1.37	1.07	1.10	0.84	1.30	0.83	1.05	0.64	1.37	0.85
3	3.08	1.54	1.44	0.78	1.41	0.89	1.31	0.76	0.97	0.65	1.13	0.82	0.73	0.64	1.45	1.02	0.90	0.74	1.25	0.98	1.45	1.02	1.47	0.86
4	1.56	0.82			1.37	0.93	1.15	0.84	1.01	0.68			0.84	0.57	1.35	1.07	1.10	0.79	0.83	0.92	1.00	0.56	3.34	1.62
Avg	1.7175	0.93	1.43	0.83	1.51	0.90	1.38	0.88	1.16	0.71	1.24	0.81	0.86	0.63	1.37	1.06	1.10	0.88	1.15	0.89	1.09	0.79	2.06	1.11

CADMIUM (ug/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	0.2	0.5	ND	ND			1	0.6	0.3	ND	0.7	0.4	ND	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	ND	0.4	ND	0.3	ND	0.6	ND	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	0.4	0.3	ND	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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	ND	0.3	0.3	0.7	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	ND	0.4	ND	ND	ND	ND	ND	ND	ND
4	0.5	ND	ND	ND			0.2	ND	0.45	ND	0.3	ND	ND	0.2	0.2	ND			0.9	0.3	ND	ND	ND	ND
Average	0.1	ND	ND	ND	0.1	0	0.2	0.1	0.11	ND	ND	ND	0.4	0.1	0.2	ND	0.4	0.2	0.4	0.1	0.1	ND	ND	ND

CADMIUM (ug/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	1.3	0.6	ND	ND	<0.5	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	ND	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	ND	0.6	0.6	ND	ND	ND	ND	ND	ND
4	0.7	ND			ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	<0.2	0.2	ND	ND	ND	ND	ND	ND

CADMIUM (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

CADMIUM (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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			0.6	ND	ND	<0.5	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	0	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	0.2	ND	ND	0.0	ND	ND

CADMIUM (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
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
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

CHROMIUM (ug/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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			5.1	2.3	3.5	2.2	5.2	23.4			5.2	4	4.7	0.9	4.5	2.1	5.2	23	4.1	ND			3.5	1.2
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	1.5	4.5	1.2	5.4	1.6	4.4	0.1	6.6	2.9	3.9	0.5

CHROMIUM (ug/L) 2006

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	9.6	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			6.1	2.2	10.8	1.5	10.9	4	7.9	0.9	7.3	1.5			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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
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	12.6	1.9
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			9.6	1.9	7.9	1.5	7.5	ND			7.5	ND	8.1	2.7	9.1	ND	5.7	ND	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

CHROMIUM (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	5.6	ND	16.7	3.2	11.7	3.5	3.9	ND			2.9	ND	10.0	1.3	6.8	2.4	8.1	1.7	8.0	ND			4.9	ND
2	6	ND	18.8	1.8	7.7	1.8	7.1	ND	10.3	ND	4.3	ND	6.1	ND	5.2	<1.2	5.5	1.5	5.5	<1.2	8.5	2.3	6.3	ND
3	5.9	ND	4.7	1.7	6.3	2.0	9.3	ND	12.1	2.4	4.9	2.4	6.4	ND	8.8	2.1	4.2	1.4	3.2	1.4	5.0	1.5	4.5	1.2
4	14.8	ND	4.4	1.6	7.6	ND	3.2	ND	3.9	ND	13.7	3.2	4.7	ND	6.9	1.3	8.9	2.0	44.4	6.5	7.6	3.0	3.4	1.3
Average	8.1	ND	11.2	2.1	8.3	1.8	5.9	ND	8.8	0.8	6.5	1.4	6.8	0.3	6.9	1.5	6.7	1.7	15.3	2.0	7.0	2.3	4.8	0.6

CHROMIUM (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	2.8	1.4	14.3	2.7			6.4	2.0	4.3	2.7	9.3	2.0	5.0	1.3	5.3	<1.2			13.1	1.5	7.5	1.9	8.8	2.0
2	3.7	ND	6.6	1.8	4.3	2.2	10.5	2.2	7.4	6.8	5.8	1.5	7.1	1.4	5.8	2.3	7.7	1.6	5.2	1.6	3.0	2.8	2.7	1.8
3	3.5	ND	6.7	3.4	5.6	2.0	9.5	1.9	12.2	4.0	5.1	2.9	8.1	1.7	5.1	1.5	7.2	1.7	4.8	1.3	4.3	1.4	5.5	1.4
4	19.5	2.3	5.4	2.7	6.1	1.7	5.7	1.3	9.5	1.5	5.5	ND	6.3	ND	5.7	2.2	6.3	ND	6.9	3.1	14.3	2.2	6.5	1.6
Average	7.4	0.9	8.3	2.7	5.3	2.0	8.0	1.9	8.4	3.8	6.4	1.6	6.6	1.1	5.5	1.5	7.1	1.1	7.5	1.9	7.3	2.1	5.9	1.7

CHROMIUM (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	5.6	1.3	6.9	1.9	6.5	1.7	7.6	2.8	7.7	2.0	12.7	1.7	6.3	1.6	10.3	2.1	4.6	2.5	7.9	1.9	6.2	ND		
2	9.7	2	7.3	2.4	6.4	1.7	10.6	2.5	8.5	2.0	7.7	1.9	5.8	1.8	10.1	2.6	7.3	2.4	14.8	3.3	7.9	2.2	8.5	<1.2
3	5.1	1.8	10.3	2.9	7.0	2.2	9.8	1.7	20.3	6.0	7.1	ND	4.1	1.9	7.6	1.2	8.6	2.5	7.6	1.4	4.7	ND	9.0	2.2
4	6	2			6.9	1.9	7.9	1.8	8.2	2.4			5.0	1.8	8.6	1.8	6.7	1.5	6.3	ND	6.2	1.9	4.8	1.7
Average	6.6	1.8	8.2	2.4	6.7	1.9	9.0	2.2	11.2	3.1	9.2	1.2	5.3	1.8	9.2	1.9	6.8	2.2	9.2	1.7	6.3	1.0	7.4	1.3

COPPER (ug/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	72	62	23	98	27			108	50	97	22	112	23	96	30	142	18			71	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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	42	101	28	105	28	71	23	106	15			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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
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	102	11	117	8	93	6	91	11	79	17
Average	83	15	44	18	90	14	97	15	89	9	114	13	118	35	99	30	105	13	96	11	86	15	80	13

COPPER (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	60	11	66	17	88	20	75	22			73	22	111	15	113	20	70	20	91	19			130	25
2	100	14	153	16	93	23	93	21	86	22	100	24	102	15	106	14	97	21	105	17	91	18	111	22
3	84	10	76	15	84	21	98	18	77	18	117	35	109	14	131	16	89	22	48	17	88	19	81	24
4	71	8	63	18	77	15	91	17	70	21	121	17	103	22	125	16	110	78	106	23	106	22	78	20
Average	79	11	90	17	86	20	89	20	78	20	103	25	106	17	119	17	92	35	88	19	95	20	100	23

COPPER (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	64	28	138	34			104	17	118	25	127	22	120	22	134	22			253.0	13.3	107.0	15.4	110	15.6
2	85	21	106	26	103	37	105	13	125	23	103	15	110	22	117	21	99	17	90.2	16.4	52.0	16.9	40.6	18.6
3	95	21	103	37	98	34	107	14	135	15	107	22	143	20	45	13	108	20	113.0	16.4	69.5	14.3	105	16.4
4	107	20	97	38	108	19	113	13	127	13	124	10	110	20	107	20	107	15	91.7	25.7	105.0	11.3	105	16.2
Average	88	23	111	34	103	30	107	14	126	19	115	17	121	21	101	19	105	17	137.0	18	83.4	14.5	90.2	16.7

COPPER (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	112.0	24.7	102	22.4	89.3	1.7	108	23.8	123	20.8	156	24.7	95.8	19.5	121.0	13.9	99.1	20.2	137.0	30.8	227.0	20.4		
2	147.0	19.4	90.5	19.1	98.7	1.7	107	24.8	128	22.2	123	15.7	87.4	16.6	145.0	31.0	102.0	25.1	129.0	42.9	98.0	20.7	109.0	19.8
3	61.7	15.4	83.9	17.8	112	2.2	117	15.6	104	28.5	88.6	10.9	59.6	17.4	136.0	13.6	105.0	17.9	92.1	29.1	101.0	46.8	110.0	18.5
4	91.7	20.8			105	1.9	114	15.2	85.9	24.1			67.6	13.7	118.0	17.5	113.0	16.9	104.0	18.0	104.0	14.6	59.1	28.2
Average	103.1	20.1	92.1	19.8	101.3	1.9	111.5	19.9	110.2	23.9	122.5	17.1	77.6	16.8	130.0	19.0	104.8	20.0	115.5	30.2	132.5	25.6	92.7	22.2

LEAD (ug/L) 2005

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

LEAD (ug/L) 2006

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	3.8	ND	5.1	ND	4.1	ND	4.4	1.7			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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	ND	ND	2.9	ND	ND	ND	3.7	ND	ND	ND	3.8	ND	2.9	ND		
2	ND	ND	ND	ND	5.8	ND	ND	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			3.9	ND	2.5	ND	ND	ND			ND	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	ND	2.4	ND	1.5	ND	2.5	ND	1.5	ND	3.2	ND	ND	ND

LEAD (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	6.7	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	2.4	ND	2.4	ND	3.4	ND			4.8	ND
2	2.9	ND	5.3	ND	ND	ND	ND	ND	4.3	ND	ND	ND	ND	ND	2.9	ND	ND	ND	4	ND	3.3	ND	4.2	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND	3.3	ND	ND	ND	2.5	ND	3	<2.0	3.6	ND
4	2.5	ND	ND	ND	ND	ND	ND	ND	5.6	ND	ND	ND	ND	ND	3.3	ND	ND	ND	3	ND	4.9	ND	3.3	ND
Average	3	ND	1.3	ND	ND	ND	ND	ND	4.3	ND	ND	ND	ND	ND	2.98	ND	0.6	ND	3.23	ND	3.7	0	4.0	ND

LEAD (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	5.3	ND			2.9	ND	3.1	ND	3.3	ND	3.3	ND	3.4	ND			7.9	ND	3.0	ND	2.7	ND
2	ND	ND	3.2	ND	ND	ND	3.8	ND	2.9	ND	3.6	ND	3.8	ND	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	2.6	ND	2.4	ND	ND	ND	2.2	ND	3.9	ND	3.2	ND	4.7	ND	0	ND	ND	ND	2.9	ND	ND	ND	2.3	ND
4	2.7	ND	2.2	ND	2.9	ND	2.5	ND	3.8	ND	5.2	ND	2.6	ND	4.3	ND	ND	ND	2	ND	2.7	ND	2.7	ND
Average	1.3	ND	3.3	ND	1	ND	2.9	ND	3.4	ND	3.8	ND	3.6	ND	3.1	ND	ND	ND	3.20	ND	1.4	ND	1.9	ND

LEAD (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	3.2	ND	3.2	ND	2.3	ND	3.9	ND	4.8	<2.0	5.2	ND	2.1	ND	4	ND	2.7	ND	3.4	ND	3.1	ND		
2	4.4	ND	2.7	ND	4.4	ND	5.8	ND	5.7	ND	3.3	ND	5.5	ND	4.3	ND	3.7	ND	15.8	ND	2.6	ND	0.9	ND
3	2.5	ND	2.2	ND	3.7	ND	3.6	ND	3.5	ND	2.5	ND	ND	ND	4.3	ND	2.2	ND	2.0	12.1	2.4	ND	2.0	ND
4	4.2	ND	2.7		3.7	ND	4	ND	2.1	ND			2.3	ND	3.7	ND	2.9	ND	2.3	2.3	3.3	D	ND	ND
Average	3.6	ND	2.7	ND	3.5	ND	4.3	ND	4.0	0.0	3.7	ND	2.5	ND	4.1	ND	2.9	ND	5.9	3.6	2.9	ND	1.0	ND

NICKEL (ug/L) 2005

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

NICKEL (ug/L) 2006

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

NICKEL (ug/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	13	7	14	8		
2	17	11	9	10	10	8	12	9	9	6	12	7	11	6	15	8	12	7	12	9	13	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			34	19	11	7	10	6			14	8	11	9	18	9	11	7	11	7	12	7
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

NICKEL (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	8	32	23	25	12	10	7			9	7	18	12	12	7	18	10	13	9			10	5
2	11	8	23	11	12	9	9	5	21	19	9	6	13	9	10	7	11	7	9	7	10	7	11	6
3	12	8	7	6	14	7	12	7	12	8	11	7	12	8	17	10	16	11	9	8	7	5	8	5
4	20	14	8	6	10	7	8	5	11	8	31	17	8	6	11	7	22	11	31	18	14	9	7	5
Average	14	10	18	12	15	9	10	6	15	12	15	9	13	9	13	8	17	10	16	11	10	7	9	5

NICKEL (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	5	24	15			9	7	8	6	15	9	12	7	9	7			25.1	6.6	8.6	6.7	12.5	5.8
2	7	5	9	7	7	6	16	10	14	15	11	8	10	6	8	5	15	10	9.0	6.6	5.5	7.1	6.7	6.6
3	6	4	14	10	8	6	10	6	13	8	7	6	11	6	9	6	13	8	8.9	5.3	7.7	5.1	9.9	5.4
4	30	16	10	9	8	6	8	5	15	9	7	5	11	6	9	6	13	7	13.0	8.3	27.6	10.4	8.1	5
Average	12	8	14	10	8	6	11	7	13	10	10	7	11	6	9	6	14	8	14.0	6.7	12.4	7.3	9.3	5.7

NICKEL (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	7.5	4.8	12.4	8.5	13.4	9.5	15.3	7.7	13.2	8.3	13.7	7.1	12.1	7.2	14.9	8	9.7	8	11.2	6.7	10.1	5.4		
2	16.4	9.9	10.1	6.9	9.3	7.4	12.7	6.6	16.2	9.1	8.6	6.4	12.4	7.4	18.5	8.3	14	9.3	18.6	10.5	15.6	9.1	8.2	5.3
3	8.6	5.7	28.3	18.2	12.7	5.3	10.8	6.3	32.8	14.5	19.6	9.3	7.2	5.7	11.4	5.3	24.6	10.6	9.7	8.8	7.6	5.9	11.6	6.9
4	14.3	9.1			12.2	7.2	12.4	7.7	14.5	8.8			7.8	6.8	16.3	8.7	10.5	7.6	9.4	7.3	9.8	6.5	11.9	9.9
Average	11.7	7.4	16.9	11.2	11.9	7.4	12.8	7.1	19.2	10.2	14.0	7.6	9.9	6.8	15.3	7.6	14.7	8.9	12.2	8.3	10.8	6.7	10.6	7.4

MERCURY (ug/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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			0.62	ND	ND	ND	0.16	ND			0.3	ND	0.11	ND	0.12	ND	ND	ND	1.03	ND			0.15	ND
2	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	ND	0.1	ND	0.22	ND	0.23	<0.09	0.23	ND	0.1	ND
3	ND	ND	0.27	ND	0.11	ND	0.19	ND	0.1	ND	0.25	ND	ND	ND	0.16	ND	ND	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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	ND	ND	ND	ND	0.1	ND	0.27	ND	ND	ND	ND	ND	0.1	ND	0.59	ND	ND	ND	0.18	ND	0.44	ND
2	0.14	ND	ND	ND	0.37	ND	0.11	ND	ND	ND	ND	ND	0.55	ND	0.13	<0.09	ND	ND	0.66	ND	0.22	ND	ND	ND
3	0.19	ND	0.35	ND	ND	ND	0.16	ND	0.23	ND	ND	ND	ND	ND	0.28	ND	ND	ND	0.15	ND	ND	ND	1.11	ND
4	ND	ND	0.11	ND			0.12	ND	0.36	0.14	0.1	ND	0.12	ND	0.18	ND			0.09	ND	0.25	ND	0.18	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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
2	ND	ND	ND	ND	ND	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	0.12	ND	0.1	ND	0.10	ND	0.17	ND	ND	ND	0.1	ND	ND	ND	0.26	ND	0.13	ND	ND	ND	ND	ND
4	ND	ND			0.16	ND	0.13	ND	ND	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	ND	0.17	ND	0.29	ND	0.06	ND	ND	ND

MERCURY (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	0.14	ND	ND	ND	0.10	ND			0.24	ND	0.31	ND	0.13	ND	0.13	ND	0.12	ND			ND	ND
2	0.11	ND	0.26	ND	ND	ND	0.14	ND	0.11	ND	ND	ND	0.14	ND	0.19	ND	0.21	ND	0.13	ND	ND	ND	0.1	ND
3	0.16	ND	0.25	ND	0.12	ND	0.19	ND	0.14	ND	0.16	ND	0.3	ND	0.25	ND	0.13	ND	0.56	ND	0.12	ND	ND	ND
4	0.21	ND	ND	ND	0.11	<0.09	0.79	ND	ND	ND	0.3	ND	0.25	0.13	0.12	ND	0.28	ND	0.17	ND	ND	ND	ND	ND
Average	0.12	ND	0.16	ND	0.06	0	0.3	ND	0.08	ND	0.18	ND	0.25	0.03	0.17	ND	0.19	ND	0.25	ND	0.04	ND	0.03	ND

MERCURY (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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			0.15	ND	0.21	ND	0.19	ND	0.13	ND	0.38	ND			0.21	ND	0.26	ND	0.37	0.23
2	0.1	ND	ND	ND	ND	ND	0.32	ND	0.15	ND	0.28	ND	ND	ND	0.19	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	0.14	ND	ND	ND	ND	ND	0.11	ND	0	ND	0.2	ND	0.67	ND	ND	ND	0.14	ND	ND	ND	ND	ND	ND	ND
4	0.17	ND	ND	ND	ND	ND	ND	ND	0.16	ND	0.35	ND	0.18	ND	0.18	ND	0.54	ND	0.14	ND	ND	ND	ND	ND
Average	0.1	ND	ND	ND	ND	ND	0.15	ND	0.13	ND	0.26	ND	0.25	ND	0.19	ND	0.23	ND	0.09	ND	0.07	ND	0.09	0.06

MERCURY (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	0.17	ND	ND	ND	ND	ND	0.1	ND	0.35	ND	0.13	0.00998	0.39	0.00776	0.154	0.00518	0.144	0.00728	0.477	0.00749		
2	0.99	ND	0.32	ND	0.11	ND	ND	ND	0.37	ND	0.2	ND	0.36	0.00627	0.06	0.0056	0.184	0.00398	0.067	0.00632	0.0316	0.00894	0.0625	0.00815
3	0.25	ND	0.14	ND	ND	ND	ND	ND	0.28	ND	0.1	ND	0.03	0.00537	0.06	0.00678	0.024	0.0058	0.0407	0.00545	0.0323	0.022	0.078	0.0072
4	0.18	ND			0.27	ND	0.17	ND	0.09	ND			0.06	0.00405	0.05	0.00632	0.059	0.00222	0.385	0.0053	0.0416	0.0077	0.0207	0.00935
Average	0.36	ND	0.21	ND	0.10	ND	0.04	ND	0.21	ND	0.22	ND	0.15	0.01	0.14	0.01	0.11	0.00	0.16	0.01	0.15	0.01	0.05	0.01

SILVER (ug/L) 2005

		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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			0.2	ND	ND	ND	2.1	ND			2.2	0.7	0.6	ND	1.3	ND	0.8	ND	2.7	ND			0.6	ND
2	ND	ND	0.8	ND	ND	ND	2.9	0.3	2.3	0.3	2.1	ND	1.9	ND	2.1	ND	2.9	<0.2	0.6	ND	1.3	ND	ND	ND
3	ND	ND	2.2	ND	0.4	ND	3.2	<0.2	2.2	ND	2.7	ND	0.9	ND	0.6	ND	2.3	ND	ND	ND	1.5	ND	ND	ND
4	ND	ND	0.9	ND	0.8	ND	0.9	ND	2.4	ND	1	ND	1	ND	ND	ND	2.4	ND	1.2	ND	10	ND	ND	ND
Average	ND	ND	1	ND	0.3	ND	2.3	0.1	2.3	0.1	2	0.2	1.1	ND	1	ND	2.1	0	1.1	ND	1.3	ND	0.2	ND

SILVER (ug/L) 2006

		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	ND	ND	0.2	<0.2	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
2	1.2	ND	ND	ND	0.3	0.2	ND	ND	3	ND	2.9	ND	4.1	ND	1.3	ND	0.4	ND	3.0	ND	1.4	ND	3.2	ND
3	0.7	ND	ND	ND	1.3	ND	1.5	ND	2.3	ND	1.7	0.4	1	0.2	1.8	ND	0.8	0.4	1.5	ND	1.2	ND	2.8	0.6
4	0.5	ND	0.2	ND			5.7	ND	1.8	0.9	0.4	0.9	0.2	ND	1.9	ND			3.3	0.2	3.1	0.2	4	0.5
Average	1.0	ND	0.1	ND	0.6	0.1	1.8	ND	1.8	0.2	1.3	0.3	2.0	0.2	1.5	ND	0.8	0.1	2.6	0.1	2.0	0.1	3.4	0.3

SILVER (ug/L) 2007

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

SILVER (ug/L) 2008

		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	1.9	0.7	ND	ND			0.8	ND	2.2	ND	1.3	ND	1.1	ND	1.3	<0.4			2.8	0.4
2	1.3	ND	2.6	ND	1.3	0.8	1.6	ND	1.3	ND	1.9	ND	2.0	0.6	1.2	ND	1.8	ND	1.6	<0.4	0.7	ND	1.1	ND
3	1.0	ND	1.4	ND	1.7	1.1	2.4	ND	1.3	ND	2.7	ND	1.4	ND	1.3	ND	0.6	0.0	0.9	ND	0.6	ND	1.0	ND
4	1.2	ND	0.9	ND	1.6	0.7	1.4	ND	0.5	ND	1.9	0.6	1.0	0.5	1.7	ND	1.9	0.6	1.4	ND	1.8	ND	0.8	ND
Average	0.9	ND	1.2	ND	1.6	0.8	1.4	ND	1.0	ND	1.8	0.2	1.7	0.3	1.4	ND	1.4	0.1	1.3	0.0	1.0	ND	1.4	0.1

SILVER (ug/L) 2009

		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	2.5	ND			0.9	ND	1.0	ND	1.1	ND	1.6	ND	1.6	ND			3.3	ND	1.0	ND	1.1	ND
2	ND	ND	1.7	ND	0.6	ND	2.6	<0.4	1.8	ND	1.1	ND	1.4	ND	1.0	ND	1.0	<0.4	ND	ND	1.2	ND	ND	ND
3	0.8	ND	1.7	ND	1.2	<0.4	3.5	ND	1.9	1.4	1.2	ND	2.2	ND	ND	ND	1.4	<0.4	ND	ND	0.6	ND	1.0	ND
4	1.6	ND	0.8	ND	1.6	ND	0.5	ND	1.7	ND	1.2	ND	1.1	ND	0.8	ND	1.5	0.9	1.0	ND	0.6	ND	1.5	ND
Average	0.6	ND	1.7	ND	1.1	0.0	1.9	ND	1.6	0.4	1.2	ND	1.6	ND	0.9	ND	1.3	0.3	1.1	ND	0.9	ND	0.9	ND

SILVER (ug/L) 2010

		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	ND	1.1	ND	1.3	0.6	N	ND	0.7	ND	1.6	ND	0.8	ND	1.9	ND	0.6	ND	2.0	ND	0.7	ND		
2	1.4	ND	1.0	ND	1.5	0.6	0.9	ND	1.1	ND	1.1	ND	0.5	ND	1.1	ND	ND	ND	1.3	ND	0.9	ND	0.9	ND
3	0.8	ND	1.0	ND	1.3	ND	1.1	ND	0.7	ND	0.7	ND	ND	ND	0.9	ND	ND	ND	1.4	ND	1.7	ND	2.0	ND
4	ND	ND			1.2	ND	1.3	ND	ND	ND			ND	ND	0.7	ND	0.7	ND	1.4	ND	1.1	ND	ND	ND
Average	0.8	ND	1.0	ND	1.3	0.3	0.8	ND	0.6	ND	1.1	ND	0.3	ND	1.2	ND	0.3	ND	1.5	ND	1.1	ND	1.0	ND

ZINC (ug/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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			124	29	97	28	144	46			121	48	116	16	149	25	138	24	188	14			148	31
2	96	25	136	22	103	25	142	26	139	21	128	66	131	18	132	19	171	22	138	16	254	21	149	21
3	97	20	196	18	130	22	144	28	118	19	127	58	68	24	146	18	131	17	74	22	129	29	121	19
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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	149	26	173	36	93	26	166	25			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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
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	178	24	159	19	130	17	113	20	127	17
4	159	29			159	17	164	22	154	12			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

ZINC (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	108	19	111	25	147	25	122	25			123	24	155	21	160	25	167	23	185	19			166	29
2	138	26	267	28	133	23	141	24	162	31	152	29	141	23	157	22	140	24	146	21	136	26	137	28
3	133	18	123	20	143	22	151	27	159	34	159	31	151	20	167	23	125	27	147	21	134	22	122	32
4	122	18	87	21	135	26	135	23	131	32	200	31	148	53	162	22	150	22	140	27	159	25	115	26
Average	125	20	147	24	140	24	137	25	151	32	159	29	149	29	162	23	146	24	155	22	143	24	135	29

ZINC (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	116	32	177	39			151	25	160	24	162	25	158	21	177	31			403	19	152	17	156	20
2	133	29	134	31	126	27	161	23	155	21	143	18	150	21	171	25	142	22	146	22	73	23	61	26
3	144	47	152	28	137	28	151	21	176	21	148	24	173	21	67	19	139	19	153	28	95	20	137	20
4	164	26	141	34	148	24	141	20	171	20	152	12	151	21	142	26	146	19	143	22	159	17	150	23
Average	139	34	151	33	137	26	151	22	166	22	151	20	158	21	139	25	142	20	211	23	120	19	126	22

ZINC (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	155	27	154	28	133	26	144	27	229	23	220	34	136	29	134	25	134	25	181	26	211	30		
2	179	21	136	26	145	25	166	27	203	24	151	21	106	20	157	30	157	30	205	26	156	32	156	26
3	103	28	123	24	178	23	160	22	170	36	135	18	115	20	139	24	139	24	133	29	142	28	155	22
4	142	33			162	24	157	22	137	26			94	23	155	21	155	21	159	23	140	22	91	34
Average	145	27	138	26	155	25	157	25	185	27	169	24	113	23	146	25	146	25	170	26	162	28	134	27

AMMONIA (mg/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	27.7	17.4	17.4	27.7	28			28	28.3	28.3	27.7	29.1	28.8	28.6	28.3	29.1	28.6			31.4	30.5
2	21.6	21.3	28.5	27.7	24.6	24.4	27.9	27.4	28.6	28.3	30.3	29.4	28.8	28.3	29.4	28.6	29.4	29.1	29.7	30	28.6	28.3	29.7	29.4
3	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	27.4	27.4	27.4	28	27.7	27.4	30.2	30	29.7	29.4
4	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	27.7	29.3	28.8	NA	NA	27.7	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	29.7	29.3	28.8	28.4	28.3	28.1	28.7	28.6	28.8	28.7	28.8	28.7	30.1	28.9

AMMONIA (mg/L) 2006

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	31.9	32.8	31.9	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	30.5	30.2	30.2	31.4	30.8	31.6	31.4	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	31.1	30.5	30.5	30.2	29.4	30	30	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	30.8	30.2	30.0	29.1	29.6	28.8	NA	NA			NA	NA	31.6	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	30.1	29.3	30.6	30.1	31.2	30.2	30.7	30.4	31.5	31.5	31.5	30.9	33.2	32.6

AMMONIA (mg/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	29.4	29.7	32.5	31.6	32.8	31.9		
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	31.9	31.4	31.4	30.8	34.4	32.8	8.3	27.4
3	31.4	32.2	29.4	28.6	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			32.5	32.5	33.3	32.8	NA	NA			32.9	33.0	30.9	30.0	32.4	31.6	32.5	31.1	28.3	28.3	28.8	28.6
							31.9	31.9																
Average	31.0	31.2	31.4	31.0	31.3	31.0	33.1	32.7	31.9	31.3	32.9	32.5	32.7	32.2	31.7	30.5	31.8	31.4	32.7	31.7	31.2	30.6	22.6	28.5

AMMONIA (mg/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	31.1	30.8	40.5	29.7	30.7	30.8	32.2	31.9			31.3	31.7	32.9	33.0	30.8	32.2	31.9	31.6	31.6	30.0			32.5	31.1
2	27.1	27.4	31.4	30.8	30.5	30.8	33.0	31.6	32.8	31.4	31.9	31.1	31.9	31.4	30.8	32.2	31.6	31.1	32.8	30.5	30.8	30.0	32.4	31.4
3	31.9	31.6	30.0	29.4	30.9	30.8	31.6	33.6	33.9	32.2	31.3	30.7	32.5	32.2	31.6	31.4	31.6	30.8	32.7	30.8	31.1	29.4	25.5	24.6
4	30.2	29.4	29.4	27.4	32.0	32.2	34.7	34.2	30.6	31.3	31.6	31.1	32.1	31.1	32.9	33.6	31.3	30.0	30.8	31.6	31.9	30.8	28.6	28.3
Average	30.1	29.8	32.8	29.3	31.0	31.2	32.9	32.8	32.4	31.6	31.5	31.2	32.4	31.9	31.5	32.4	31.6	30.9	32.0	30.7	31.3	30.1	29.8	28.9

AMMONIA (mg/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	29.7	28.8	31.3	30.0			34.9	33.6	31.0	29.7	34.3	33.6	34.6	33.6	33.6	31.6			34.9	34.2	35.2	33.9	32.9	32.5
2	29.7	29.2	28.3	27.4	31.4	30.2	34.2	33.9	34.4	33.3	33.6	31.9	33.6	31.4	32.8	31.9	30.1	29.1	33.0	31.9	34.4	32.8	26.3	26.0
3	28.7	29.1	29.1	28.8	31.9	31.1	33.3	32.8	33.9	32.8	34.4	33.6	32.5	31.9	30.8	30.2	32.2	31.4	31.6	31.1	36.7	36.4	30.0	29.7
4	30.7	29.9	30.1	29.7	31.4	30.2	32.8	32.5	34.2	32.8	34.4	33.0	33.9	33.0	31.1	30.2	33.0	31.9	33.6	31.6	37.0	35.3	31.6	31.4
Average	29.7	29.3	29.7	29.0	31.6	30.5	33.8	33.2	33.4	32.2	34.2	33.0	33.7	32.5	32.1	31.0	31.8	30.8	33.3	32.2	35.8	34.6	30.2	29.9

AMMONIA (mg/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	33.9	33.6	31.6	32.2	30.2	30.5	31.1	30.2	33.9	34.7	32.7	32.2	34.6	33.3	33.2	33.3	34.2	31.4	32.3	30.5	31.5	32.2		
2	32.9	33.9	28.8	29.1	30.8	30.8	28.6	28.0	32.8	32.2	33.3	33.3	34.4	32.5	31.6	31.9	33.9	33.0	33.3	33.3	31.6	31.6	33.0	32.8
3	21.6	21.7	30.8	30.2	32.8	32.5	31.4	31.1	33.3	33.6	32.5	32.8	32.8	32.5	31.4	31.9	31.6	30.0	31.6	29.4	28.8	29.1	35.6	32.8
4	29.1	29.1			32.5	32.8	32.5	31.4	32.8	32.2			32.6	32.5	30.8	30.8	31.9	31.1	32.2	30.9	30.2	31.1	22.1	21.8
Average	29.4	29.6	30.4	30.5	31.6	31.7	30.9	30.2	33.2	33.2	32.8	32.8	33.6	32.7	31.8	32.0	32.9	31.4	32.4	31.0	30.5	31.0	30.2	29.1

CYANIDE (mg/L) 2004

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	0.002	0.002	0.002	0.002	<0.002	0.003	0.003	0.003	<0.002	0.003	0.006	0.002	0.002	0.005	0.005	0.03	0.003
2	0.004	0.003	0.003	0.003	0.003	0.003	0.003	ND	0.002	0.003	ND	ND	ND	ND	ND	0.002	ND	<0.002	0.003	ND		0.002	0.002	0.003
3	0.002	0.003	0.002	0.002	0.003	0.003	0.003	0.002	0.003	<0.002	0.002	0.002			0.003	0.002	0.007	0.007	0.003	0.003	0.002	0.003	0.004	0.003
4	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	ND	<0.002	0.003	0.002	ND	<0.002	0.002	<0.002	0.002	0.003	0.003	0.003	N D	0.002
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	0.001	0.003	0.003	0.003	0.003	0.002	0.003	0.002	0.003

CYANIDE (mg/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	0.003	0.002	0.003	0.003			0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.002	0.002	0.002			0.006	0.003
2	0.003	0.002	0.002	0.003	0.003	0.002	0.003	0.003	0.002	0.002	ND	ND	0.002	0.003	ND	0.003	0.002	<0.002	ND	<0.002	0.002	0.002	0.003	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	0.003	0.002	0.003	0.002	0.003	0.003	0.002	0.002	0.002	ND	0.004	0.003
4	0.003	0.003	0.003	0.004	0.004	0.003	0.002	0.003	0.002	0.003	0.002	0.002	0.003	0.003	ND	ND	ND	ND	0.002	<0.002	ND	0.002	0.003	ND
Average	0.003	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.001	0.002	0.001	0.001	0.001	0.004	0.002

CYANIDE (mg/L) 2006

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	ND	<0.002	0.002	ND	ND*	ND*	ND	ND	ND	ND	ND	ND	0.002	0.002	ND	ND	ND	ND
2	0.002	<0.002	0.002	<0.002	0.003	0.002	0.003	0.002	0.002	<0.002	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	0.003	ND	ND	ND	0.002	ND	0.002	0.002
4	0.002	<0.002	0.003	<0.002			0.002	<0.002	ND	ND	0.003	0.002	0.002	<0.002	ND	ND			ND	ND	ND	ND	0.002	0.002
Average	0.002	0.001	0.003	0.001	0.002	0.001	0.002	0.001	0.002	0.000	0.002	0.001	0.002	0.000	ND	ND	0.001	ND	0.001	0.001	0.001	0.001	0.001	0.002

*Sample P34505 and P343508 were analyzed one day out of the 14 day holding time for cyanide analysis.

CYANIDE (mg/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	0.002	ND	ND	ND	0.002	ND	ND	<0.002	ND	<0.002		
2	0.002	0.002	ND	0.002	0.003	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	<0.002	ND	ND
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			0.001	ND	0.002	ND	ND	ND			ND	ND	ND	ND	0.003	0.002	ND	ND	ND	ND	ND	ND
							ND	ND																
Average	0.001	0.001	0.002	0.003	0.002	ND	0.001	ND	ND	ND	ND	ND	0.001	ND	ND	ND	0.002	0.001	ND	0.000	ND	0.000	ND	ND

CYANIDE (mg/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	<0.002			ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.002	ND	ND	ND	<0.002	ND	0.002
3	ND	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	0.002	ND	0.002	ND	<0.002
4	ND	ND	ND	ND	0.002	<0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	ND	<0.002	ND	0.003	0.002	0.003
Average	ND	ND	ND	ND	0.001	0.000	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	0.000	ND	0.001	ND	0.002	0.001	0.001

CYANIDE (mg/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	0.003			0.002	0.003	ND	0.002	ND	0.002	0.002	0.003	ND	ND			ND	0.002	ND	0.002	0.002	ND
2	0.002	<0.002	ND	ND	0.002	0.003	0.002	0.003	ND	0.003	0.002	0.003	ND	ND	ND	ND	0.002	0.025	ND	0.002	0.002	0.003	0.002	0.002
3	0.002	<0.002	ND	<0.002	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	0.002	<0.002	0.003	ND	0.002	ND	0.002	ND	ND	ND	0.002
4	0.002	0.003	ND	0.002	0.003	0.003	ND	0.002	0.002	0.003	0.002	0.003	ND	ND	ND	0.002	0.002	0.003	ND	0.003	0.002	0.002	0.002	0.003
Average	0.002	0.001	ND	0.001	0.002	0.003	0.001	0.002	0.001	0.002	0.001	0.002	0.001	0.002	0.000	0.001	0.001	0.010	ND	0.002	0.001	0.002	0.002	0.002

CYANIDE (mg/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	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	0.002	0.002	0.003	ND	0.003	0.002	0.002	0.002	0.002	0.003	0.003	ND	<0.002	0.002	0.002	0.002	ND	0.002	0.002	ND	ND		
2	ND	0.002	0.003	0.003	0.002	<0.002	ND	0.002	ND	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.003	ND	ND	ND	ND	0.003
3	ND	ND	0.003	0.004	0.002	0.003	ND	0.002	0.002	0.002	0.002	0.003	ND	ND	ND	0.003	ND	<0.002	ND	ND	ND	ND	ND	ND
4	0.002	0.003			ND	ND	ND	0.003	0.002	0.002			ND	0.002	0.002	0.003	ND	0.002	0.002	0.003	ND	0.003	0.002	0.002
Average	0.001	0.002	0.003	0.003	0.001	0.002	0.001	0.002	0.002	0.002	0.002	0.003	0.001	0.001	0.002	0.003	0.001	0.001	0.002	0.002	ND	0.001	0.001	0.002

EFFLUENT RADIATION (pCi/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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			3.2	18.9	2.5	8.8	1.1	16.8			3	19.3	1.3	14.3			2	11.7	1.9	13.1			2.7	18.1
2	1.5	15							2.9	13.9					1.3	20.2					0.7	25.7		
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	16.9	1.9	13.1	0.7	25.7	2.7	18.1

EFFLUENT RADIATION (pCi/L) 2006

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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			1.0	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									1.5	16.3														
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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	28.6			0.8	25.4	0.2	28.0				
2									1.1	29.8	1.5	20.7			1.4	27.5					2.5	24.8	1.1	19.5
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

EFFLUENT RADIATION (pCi/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	1.3	25.3			1.8	21.8	2.3	28.6			1.4	30	0.5	30.3			4.5	28.1	2.7	22.2			6.4	24
2			1.7	22.8					1.3	23.4					6.1	31.3					3.6	30		
3																								
4																								
Average	1.3	25.3	1.7	22.8	1.8	21.8	2.3	28.6	1.3	23.4	1.4	30	0.5	30.3	6.1	31.3	4.5	28.1	2.7	22.2	3.6	30	6.4	24

EFFLUENT RADIATION (pCi/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	27	4.8	29.5			2.8	32.6			2.6	25.9	3.3	30.2	4	34.5			1.3	34.8	0.6	36.1	6.4	37.5
2					5.1	28.7			0.0	32.3							3.7	37						
3																								
4																								
Average	1	27	4.8	29.5	5.1	28.7	2.8	32.6	0.0	32.3	2.6	25.9	3.3	30.2	4	34.5	3.7	37	1.3	34.8	0.6	36.1	6.4	37.5

EFFLUENT RADIATION (pCi/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	4.9	33.8	9.0	31.5	1.9	32.8	3.2	29.8	2.4	31.8	32.2	32.8	3.3	24.7	3.1	36.5	0.9	32.7	3.2	46.1	3.6	32.7		
2																							-1.8	28.1
3																								
4																								
Average	4.9	33.8	9.0	31.5	1.9	32.8	3.2	29.8	2.4	31.8	32.2	32.8	3.3	24.7	3.1	36.5	0.9	32.7	3.2	46.1	3.6	32.7	-1.8	28.1

ALDRIN AND DIELDRIN (ng/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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
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

ALDRIN AND DIELDRIN (ng/L) 2006

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	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

ALDRIN AND DIELDRIN (ng/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
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
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
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

ALDRIN AND DIELDRIN (ng/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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
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

ALDRIN AND DIELDRIN (ng/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
2	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
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	ND	ND

ALDRIN AND DIELDRIN (ng/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
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
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

ENDRIN (ng/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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
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

ENDRIN (ng/L) 2006

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	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

ENDRIN (ng/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	93.0	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
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

ENDRIN (ng/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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
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

ENDRIN (ng/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
2	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
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	ND	ND

ENDRIN (ng/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
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
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

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	15	ND	36	15			24	ND	40	41	25	13.5	30	ND	31	ND			ND	10.5
2	13	ND	ND	ND	ND	ND	43	16	33	17	22	11.5	29.7	13.5	35	20	32	ND	30	ND	ND	ND	ND	ND
3	21	ND	ND	30.5	12	ND	30.3	13.8	25	ND	15	ND	27.3	ND	44	72.5	14	ND	29	ND	ND	ND	ND	ND
4	28	ND	ND	ND	ND	ND	39	ND	29.3	16	20	13	17.3	20.8	0	23	11	ND	29	20	15	ND	28	ND
Average	20.7	ND	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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	ND	11	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	21	ND	0.0	ND	ND	ND	21.0	ND			ND	ND	ND	ND	ND	ND
Average	20.3	4.3	11.8	3.5	ND	ND	3	ND	5.3	ND	10.0	ND	22	3.1	20.3	ND	ND	ND	ND	ND	ND	2.8	ND	ND

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
2	17	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	426.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	15	ND	ND	ND	ND	ND	12.0	ND	ND	ND	ND	ND	ND	14.0	ND	ND	ND	ND	ND	ND	ND	ND	7.0	ND
4	0	ND	ND	ND	ND	ND	7.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	12.0	ND	ND	ND	ND	ND	4.8	ND	2.5	ND	ND	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
2	ND	ND	ND	10.5	ND	ND	ND	ND	10	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	6.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	2.6	ND	ND	1.6	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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			5	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	0	ND	ND	ND			ND	ND	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
2	ND	ND	ND	ND	ND	ND	ND	ND	29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	85	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	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
Average	ND	ND	ND	ND	ND	ND	ND	ND	7.3	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.3	ND	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	178	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	15.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	44.5	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2006

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	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

CHLORDANE & RELATED COMPOUNDS (ng/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	58.0	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
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
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.5	ND	ND	ND	ND	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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	15.0	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
Average	ND	ND	3.8	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) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
2	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
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	ND	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	20.0	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	14.0	14.5	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50.4	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
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.7	ND	ND	ND	ND	ND	ND	ND	12.6	ND	3.5	3.6	ND	ND

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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
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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2006

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
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
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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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
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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
2	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
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	ND	ND

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
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
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

DDT AND DERIVATIVES (ng/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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	5.8	ND

DDT AND DERIVATIVES (ng/L) 2006

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	8.0	ND	24.0	8.0			15.0	ND	ND	ND	18.0	ND	ND	ND	ND	ND		
2	ND	ND	ND	ND	ND	ND	16.0	ND	14.0	ND	17.0	ND	230.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	0.0	ND	15.0	ND	8.0	ND	ND	ND	ND	ND	11.0	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	22.0	4	16.0	ND	12.0	ND	ND	ND	ND	ND	16.0	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	ND	ND	ND	11.3	ND	ND	ND	ND	ND	ND	ND

DDT AND DERIVATIVES (ng/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	13	ND	ND	ND	ND	ND			22.0	ND	ND	ND	5.0	4.0	15.0	ND	ND	ND			ND	4.5
2	ND	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	22	ND	ND	ND	ND	ND	7.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.0	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	8.0	ND	ND	ND	11.0	ND	37.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	8.8	ND	ND	1.5	ND	ND	5	ND	5.5	ND	2.8	ND	10.5	1	3.8	ND	3.3	ND	ND	ND	ND	1.1

DDT AND DERIVATIVES (ng/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	27	5			6.0	ND	19.0	ND	ND	ND	ND	ND	ND	ND			5.0	ND	ND	ND	ND	4.5
2	ND	ND	ND	ND	ND	ND	ND	ND	28.0	ND			ND	ND	ND	ND	ND	ND	5.0	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	8.6	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	26	ND	ND	ND	18.0	ND	0.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	13.3	1.3	ND	ND	6.0	ND	13.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND	1.1

DDT AND DERIVATIVES (ng/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.0	ND	ND	ND	ND	ND		
2	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	0	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
Average	ND	ND	1.7	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.5	ND	ND	ND	ND	ND	ND	ND

TOXAPHENE (ng/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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
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

TOXAPHENE (ng/L) 2006

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	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

TOXAPHENE (ng/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
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
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

TOXAPHENE (ng/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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
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

TOXAPHENE (ng/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
2	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
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	ND	ND

TOXAPHENE (ng/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
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
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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	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
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2006

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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
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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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
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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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
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
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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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		
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
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

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2005

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	4.3	2.9	14.6	13.7			16.3	11.5	17.3	11.2	9.4	5.5	13.4	8.3	13.3	939			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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	19.9	12.4	14.7	14.4	18.2	11.9	21.8	11.4			8.2	10	21.3	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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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			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	10.5	17.1	12		
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

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	15.0	17.4	11.1	18.9	13.3	19.8	11.6			18.4	12.0	16.8	11.5	14.6	11.2	14.3	9.9	15.2	12.3			15.2	13.1
2	16.8	10.7	15.4	9.5	17.9	13.7	23.0	16.7	17.8	15.4	21.9	15.3	21.8	12.8	18.7	13.8	19.4	11.5	11.2	9.1	16.7	11.8	16.3	16.4
3	18.9	13.0	17.2	13.5	20.0	11.3	22.6	15.4	19.5	17.4	27.0	10.1	16.7	8.3	16.5	14.4	12.2	10.4	14.3	10.3	14.2	12.5	4.8	6.1
4	17.7	9.4	17.4	13.0	16.4	12.9	21.1	17.7	19.6	13.3	22.4	12.1	13.6	9.7	19.3	11.3	11.2	8.9	14.4	12.9	16.5	15.0	14.9	13.7
Average	18.1	12.0	16.9	11.8	18.3	12.8	21.6	15.4	19.0	15.4	22.4	12.4	17.2	10.6	17.3	12.7	14.3	10.2	13.8	11.2	15.8	13.1	12.8	12.3

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	17.2	14.3	15.6	14.3			18.5	17.4	17.6	16.2	19.2	13.7	22.0	15.0	19.2	14.3			22.5	18.2	16.6	13.5	16.4	12.7
2	13.2	11.8	15.7	12.0	14.5	13.4	16.2	17.3	19.4	13.8	18.2	15.3	19.1	18.3	26.7	17.4	22.0	12.7	21.4	13.1	22.6	14.3	15.0	8.6
3	15.0	13.1	16.0	12.6	17.7	15.3	13.5	12.8	20.3	17.5	18.0	13.4	20.4	14.5	19.4	12.0	17.1	11.7	22.6	17.1	20.6	13.8	19.1	13.3
4	17.4	17.5	17.3	13.8	18.6	16.8	19.6	16.0	16.0	14.9	20.5	10.2	20.4	14.1	19.4	14.0	21.4	11.5	23.0	15.0	23.1	19.1	17.9	16.4
Average	15.7	14.2	16.2	13.2	16.9	15.2	17.0	15.9	18.3	15.6	19.0	13.2	20.5	15.5	21.2	14.4	20.2	12.0	22.4	15.9	20.7	15.2	17.1	12.8

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	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	20.0	16.4	19.2	15.6	16.1	14.5	18.8	16.2	21.5	16.5	22.4	18.0	21.7	19.7	23.4	19.6	27.5	19.0	21.0	18.6	28.3	13.4		
2	13.4	12.3	14.8	14.6	14.2	12.1	15.4	12.5	16.1	10.3	16.7	17.5	17.4	16.8	14.9	12.8	20.0	18.4	15.3	16.7	18.3	12.5	20.9	20.1
3	5.9	5.5	17.9	15.6	16.4	13.8	15.3	15.9	17.0	15.2	16.5	15.1	19.7	14.7	18.1	16.1	23.8	15.6	12.6	13.7	18.3	14.1	22.4	16.3
4	13.2	12.8			18.6	15.0	15.1	16.8	17.5	14.3			12.9	9.1	16.7	6.4	17.0	17.0	12.7	14.6	22.0	17.0	5.1	6.7
Average	13.1	11.8	17.3	15.3	16.3	13.9	16.2	15.4	18.0	14.1	18.5	16.9	17.9	15.1	18.3	13.7	22.1	17.5	15.4	15.9	21.7	14.3	16.1	14.4

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